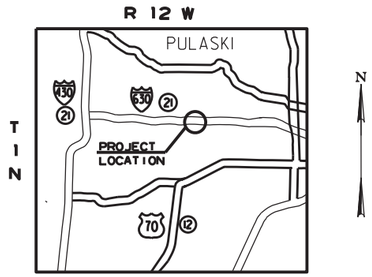
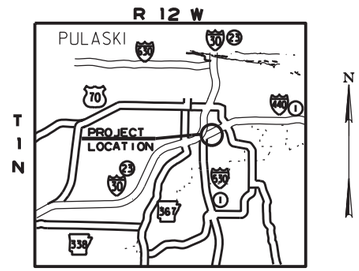
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	1	105

OVERHEAD SIGN STRS. & SIGNS REPLACEMENT (CENTRAL AR) (2022) (S)



DISTRICT 6 VICINITY MAP 2



DISTRICT 6 VICINITY MAP 3

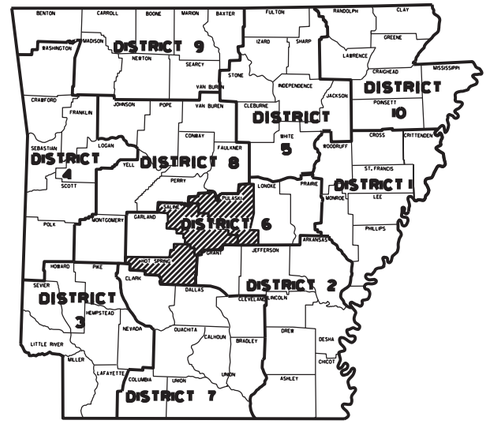
ARKANSAS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLANS FOR STATE HIGHWAY

OVERHEAD SIGN STRS. & SIGNS REPLACEMENT (CENTRAL AR) (2022) (S)

HOT SPRING, PULASKI & SALINE COUNTIES
VARIOUS ROUTES

JOB 061754

FED. AID PROJ. NHPP-0076(254)



ARK. HWY. DIST. NO. 6

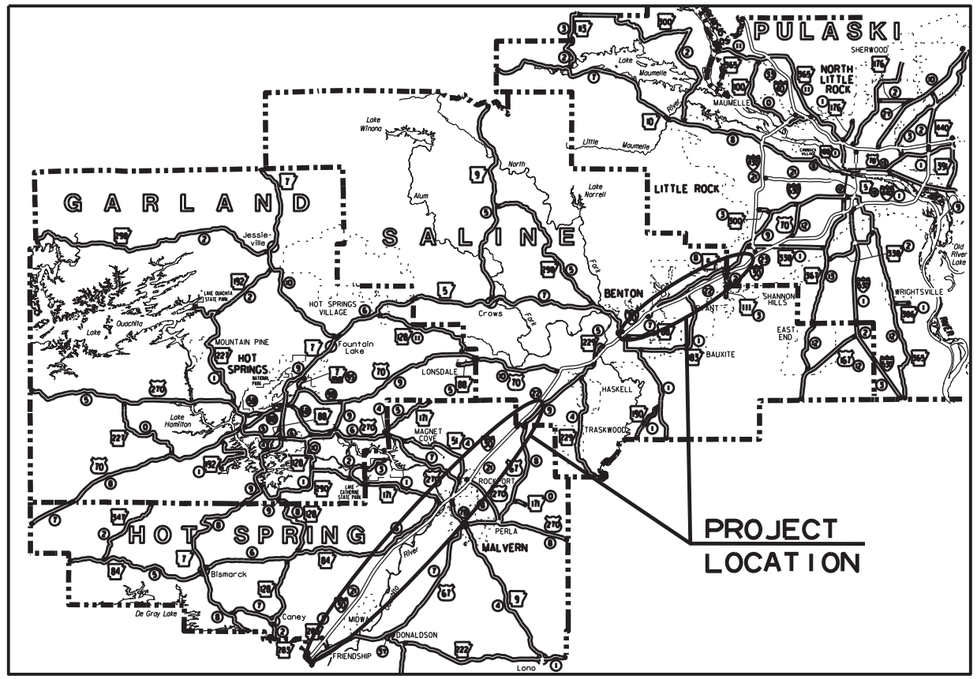
PROJECT LOCATIONS

DISTRICT 6 - HOT SPRING COUNTY
ROUTE 30, SECTION 21, LOG MILE 80.56 - 105.46

DISTRICT 6 - SALINE COUNTY
ROUTE 30, SECTION 22, LOG MILE 105.46 - 110.00
ROUTE 30, SECTION 22, LOG MILE 116.69 - 126.30

DISTRICT 6 - PULASKI COUNTY
ROUTE 30, SECTION 23, LOG MILE 126.30 - 129.20
ROUTE 440, SECTION 1, LOG MILE 0.89
ROUTE 630, SECTION 21, LOG MILE 2.772-4.747

NOT TO SCALE



T 2 N

R 22 W — DISTRICT 6 VICINITY MAP 1 — R 12 W

T 6 S

N

APPROVED

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 10045
KELVIN REX VINES

Vines, Rex
Aug 22 2022 8:56 AM
DocuSign

DEPUTY DIRECTOR
AND CHIEF ENGINEER

DATE REVISED	DATE REVISED	FED.RD. DST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	2	105
		INDEX OF SHEETS AND STANDARD DRAWINGS				

INDEX OF SHEETS

SHEET NO.	TITLE	STR.NO.	DRWG.NO.
1	TITLE SHEET		
2	INDEX OF SHEETS AND STANDARD DRAWINGS		
3	GOVERNING SPECIFICATIONS AND GENERAL NOTES		
4 - 5	SPECIAL DETAILS		
6	TEMPORARY EROSION CONTROL DETAILS		
7 - 13	MAINTENANCE OF TRAFFIC DETAILS		
14	QUANTITIES		
15	SUMMARY OF QUANTITIES AND REVISIONS		
16 - 20	SIGNING QUANTITIES		
21 - 38	SIGN PLACEMENT SHEETS		
39 - 79	SIGN LAYOUT SHEETS		
80 - 81	STANDARD SIGN ASSEMBLIES		
82	DETAILS OF 55' TO 69' STEEL OVERHEAD SIGN STRUCTURE (SHEET 1 0F 5)	OH-030-60-89, OH-440-60-55	65606
83	DETAILS OF 55' TO 69' STEEL OVERHEAD SIGN STRUCTURE (SHEET 2 0F 5)	OH-030-60-89, OH-440-60-55	65607
84	DETAILS OF 55' TO 69' STEEL OVERHEAD SIGN STRUCTURE (SHEET 3 0F 5)	OH-030-60-89, OH-440-60-55	65608
85	DETAILS OF 55' TO 69' STEEL OVERHEAD SIGN STRUCTURE (SHEET 4 0F 5)	OH-030-60-89, OH-440-60-55	65609
86	DETAILS OF 55' TO 69' STEEL OVERHEAD SIGN STRUCTURE (SHEET 5 0F 5)	OH-030-60-29, OH-440-60-55	65610
87	DETAILS OF OVERHEAD SIGN SUPPORT (SHEET 1 OF 2)	OH-440-60-55	65611
88	DETAILS OF OVERHEAD SIGN SUPPORT (SHEET 2 OF 2)	OH-440-60-55	65612
89	DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE (SHEET 1 OF 5)	OC-030-60-90, OC-030-62-27, OC-030-62-28, OC-030-62-29, OC-030-62-30, OC-030-62-31, OC-030-62-32, OC-030-62-42	65613
90	DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE (SHEET 2 OF 5)	OC-030-60-90, OC-030-62-27, OC-030-62-28, OC-030-62-29, OC-030-62-30, OC-030-62-31, OC-030-62-32, OC-030-62-42	65614
91	DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE (SHEET 3 OF 5)	OC-030-60-90, OC-030-62-27, OC-030-62-28, OC-030-62-29, OC-030-62-30, OC-030-62-31, OC-030-62-32, OC-030-62-42	65615
92	DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE (SHEET 4 OF 5)	OC-030-60-90, OC-030-62-27, OC-030-62-28, OC-030-62-29, OC-030-62-30, OC-030-62-31, OC-030-62-32, OC-030-62-42	65616
93	DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE (SHEET 5 OF 5)	OC-030-60-90, OC-030-62-27, OC-030-62-28, OC-030-62-29, OC-030-62-30, OC-030-62-31, OC-030-62-32, OC-030-62-42	65617
94	DETAILS OF SIGN STRUCTURE	BM-030-60-91	65618
95	DETAILS OF SIGN STRUCTURE	BM-030-60-92	65619
96	DETAILS OF SIGN STRUCTURE	BM-030-62-34	65620
97	DETAILS OF SIGN STRUCTURE (SHEET 1 OF 2)	BM-030-62-35	65621
98	DETAILS OF SIGN STRUCTURE (SHEET 1 OF 2)	BM-030-62-35	65622
99	DETAILS OF SIGN STRUCTURE	BM-030-62-36	65623
100	DETAILS OF SIGN STRUCTURE	BM-030-62-37	65624
101	DETAILS OF SIGN STRUCTURE	BM-030-62-38	65625
102	DETAILS OF SIGN STRUCTURE	BM-030-62-39	65626
103	DETAILS OF SIGN STRUCTURE (SHEET 1 OF 2)	BM-030-62-40	65627
104	DETAILS OF SIGN STRUCTURE (SHEET 2 OF 2)	BM-030-62-40	65628
105	COMMON DETAILS OF STEEL BRIDGE MOUNTED SIGN STRUCTURES	BM-03-60-91, BM-030-60-92, BM-030-62-34, BM-030-62-35, BM-030-62-36, BM-030-62-37, BM-030-62-38, BM-030-62-39, BM-030-62-40	65629

ROADWAY STANDARD DRAWINGS

DRWG.NO.	TITLE	DATE
GR-6	GUARDRAIL DETAILS	05-19-22
GR-7	GUARDRAIL DETAILS	11-07-19
GR-8	GUARDRAIL DETAILS	11-07-19
GR-9	GUARDRAIL DETAILS	11-07-19
GR-10	GUARDRAIL DETAILS	11-07-19
GR-11	GUARDRAIL DETAILS	11-07-19
GR-12	GUARDRAIL DETAILS	05-14-20
SD-5	CONTROLLER CABINET UTILITY DRAWER	09-12-13
SD-6	HEAVY DUTY PULL BOX	11-16-17
SD-9	SERVICE POINT	11-07-19
SD-12	SERVICE POINT INSTALLATION WITH SUPPLEMENTAL GROUNDING ARRAY	11-07-19
SHS-1	STANDARD HIGHWAY SIGNS AND SUPPORTS ASSEMBLIES	09-12-13
SHS-2	U-CHANNEL POST ASSEMBLIES	07-25-19
SHS-3	DETAIL OF BREAKAWAY SIGN SUPPORTS FOR GUIDE SIGNS	05-19-22
SHS-4	DETAIL OF BREAKAWAY SIGN SUPPORTS FOR STANDARD SIGNS	09-12-13
SHS-5	DETAILS OF GUIDE SIGN PANELS	09-12-13
SHS-6	MOUNTING DETAILS FOR DEMOUNTABLE LEGEND ON GUIDE SIGNS	09-12-13
SHS-7	DETAIL OF OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS	09-12-13
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	11-07-19
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	05-20-21
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	08-12-21
TC-4	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION-TEMPORARY PRECAST BARRIER	11-07-19
TC-5	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION-TEMPORARY PRECAST BARRIER	11-07-19
TEC-1	TEMPORARY EROSION CONTROL DEVICES	11-16-17
TEC-3	TEMPORARY EROSION CONTROL DEVICES	11-03-94

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	3	105
		GOVERNING SPECIFICATIONS AND GENERAL NOTES				

GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

NUMBER	TITLE
ERRATA_____	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273___	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273___	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273___	SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273___	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273___	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273___	SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273___	SUPPLEMENT - WAGE RATE DETERMINATION
100-3_____	CONTRACTOR'S LICENSE
100-4_____	DEPARTMENT NAME CHANGE
102-2_____	ISSUANCE OF PROPOSALS
105-4_____	MAINTENANCE DURING CONSTRUCTION
107-2_____	RESTRAINING CONDITIONS
108-1_____	LIQUIDATED DAMAGES
108-2_____	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
110-1_____	PROTECTION OF WATER QUALITY AND WETLANDS
210-1_____	UNCLASSIFIED EXCAVATION
303-1_____	AGGREGATE BASE COURSE
306-1_____	QUALITY CONTROL AND ACCEPTANCE
400-4_____	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
400-5_____	PERCENT AIR VOIDS FOR ACHM MIX DESIGNS
400-6_____	LIQUID ANTI-STRIP ADDITIVE
404-3_____	DESIGN OF ASPHALT MIXTURES
410-1_____	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
410-2_____	DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS
410-4_____	EVALUATION OF ACHM SUBLOT REPLACEMENT
501-2_____	CEMENT
600-2_____	INCIDENTAL CONSTRUCTION
603-1_____	LANE CLOSURE NOTIFICATION
604-1_____	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
604-3_____	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES (MASH)
617-1_____	GUARDRAIL TERMINAL (TYPE 2)
620-1_____	MULCH COVER
700-2_____	TRAFFIC CONTROL FACILITIES
723-1_____	GENERAL REQUIREMENTS FOR SIGNS
730-1_____	BREAKAWAY SIGN SUPPORT
802-4_____	CEMENT
JOB 061754__	ASSESSMENT OF WORKING DAYS - MAINTENANCE OF TRAFFIC
JOB 061754__	BIDDING REQUIREMENTS AND CONDITIONS
JOB 061754__	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB 061754__	CARGO PREFERENCE ACT REQUIREMENTS
JOB 061754__	COORDINATION OF WORK
JOB 061754__	DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILIITIES
JOB 061754__	ESTABLISHING CONTRACT TIME - WORKING DAY CONTRACT
JOB 061754__	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB 061754__	LIQUIDATED DAMAGES PROCEDURE FOR BID LETTINGS
JOB 061754__	LONGITUDINAL JOINT DENSITIES FOR ACHM SURFACE COURSES
JOB 061754__	MAINTENANCE OF TRAFFIC
JOB 061754__	MANDATORY ELECTRONIC CONTRACT
JOB 061754__	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 061754__	MODIFICATION OF EXISTING OVERHEAD SIGN STRUCTURE
JOB 061754__	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORT
JOB 061754__	PARTNERING REQUIREMENTS
JOB 061754__	PRICE ADJUSTMENT FOR ASPHALT BINDER
JOB 061754__	PRICE ADJUSTMENT FOR FUEL
JOB 061754__	PROHIBITION OF CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT
JOB 061754__	SOIL STABILIZATION
JOB 061754__	SPECIAL SAFETY REQUIREMENTS FOR OVERHEAD SIGNS
JOB 061754__	STEEL SIGN STRUCTURES
JOB 061754__	STORM WATER POLLUTION PREVENTION PLAN
JOB 061754__	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 061754__	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB 061754__	UTILITY ADJUSTMENTS
JOB 061754__	VALUE ENGINEERING
JOB 061754__	WARM MIX ASPHALT

GENERAL NOTES

1. ALL PIPE LINES, POWER, TELEPHONE, AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.

2. ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE PROVIDED.

3. ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.

4. ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO INSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.

5. ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO. 210 - UNCLASSIFIED EXCAVATION.

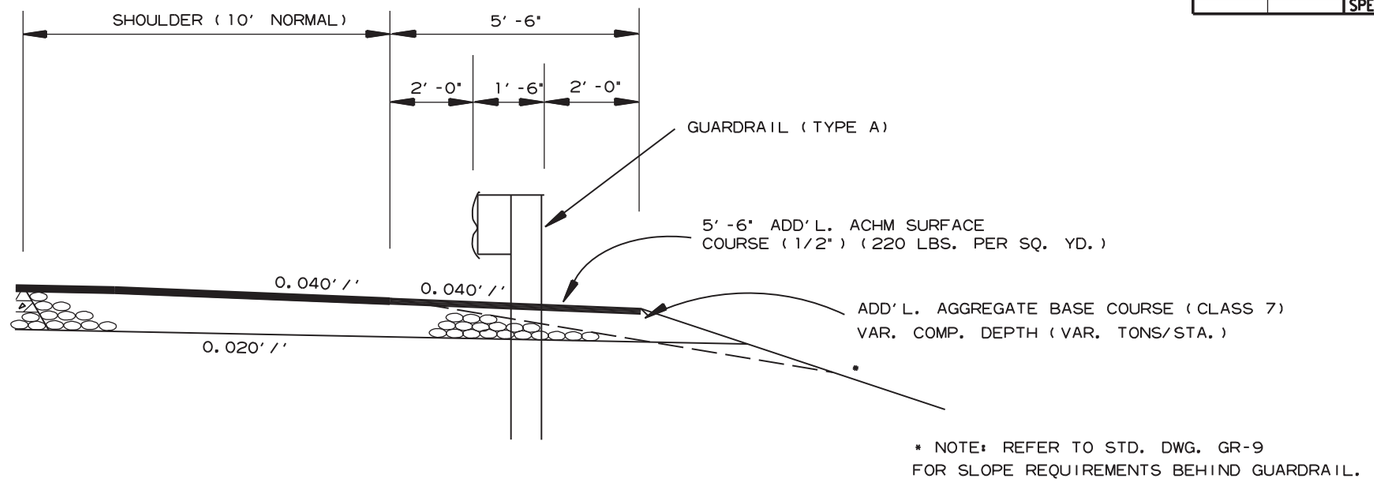
6. THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

7. THE SEQUENCE AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS IS A GENERAL OUTLINE FOR THE CONSTRUCTION OF THIS PROJECT, AND IN NO WAY IS IT INTENDED TO COVER EVERY ITEM IN THE PROJECT. ITEMS NOT CRITICAL TO THE CONSTRUCTION SEQUENCE MAY BE CONSTRUCTED IN ANY STAGE AS APPROVED BY THE RESIDENT ENGINEER.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

DocuSigned by: 12/2/2022 8:40 AM

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	4	105
		SPECIAL DETAILS				



WIDENING FOR GUARDRAIL

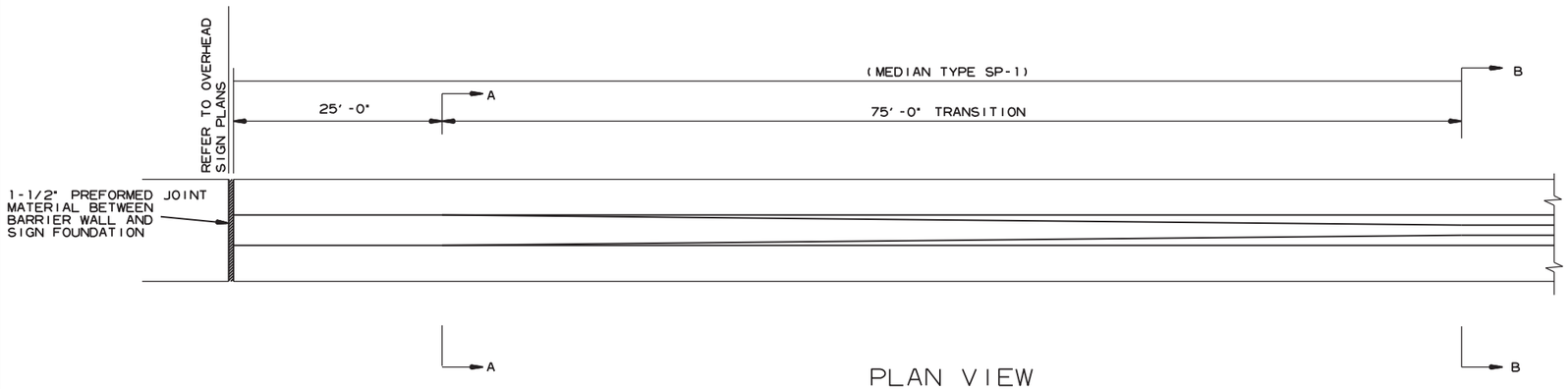
GUARDRAIL INSTALLATION LOCATIONS

ROUTE	LOG MILE	LOCATION	SIDE	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE I)	GUARDRAIL TERMINAL (TYPE 2)
I-30	126.83	EB FRONTAGE RD	LT.	275'	1	1
I-30	9.75	WB MAIN LANES	RT.	275'	1	1
I-30	117.41	EB FRONTAGE RD	LT.	275'	1	1
I-30	20.85	WB MAIN LANES	RT.	275'	1	1
I-30	20.85	WB FRONTAGE RD	LT.	275'	1	1
I-30	120.17	EB MAIN LANES	RT.	275'	1	1
I-30	120.17	EB FRONTAGE RD	LT.	275'	1	1
I-30	125.31	EB MAIN LANES	RT.	275'	1	1
I-30	125.31	EB FRONTAGE RD	LT.	275'	1	1
I-30	19.21	WB MAIN LANES	RT.	275'	1	1
I-30	19.21	WB FRONTAGE RD	LT.	275'	1	1
I-30	21.75	WB FRONTAGE RD	LT.	275'	1	1
I-30	23.83	WB MAIN LANES	RT.	275'	1	1
I-30	23.83	WB FRONTAGE RD	LT.	275'	1	1

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
Smith, Trinity D.
Aug 19 2022 9:44 AM
DocuSign

SH35336 8/8/2022
R061754.DGN

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	5	105
		SPECIAL DETAILS				



PLAN VIEW

CONCRETE BARRIER WALL (MEDIAN TYPE B AND MEDIAN TYPE C) TRANSITION

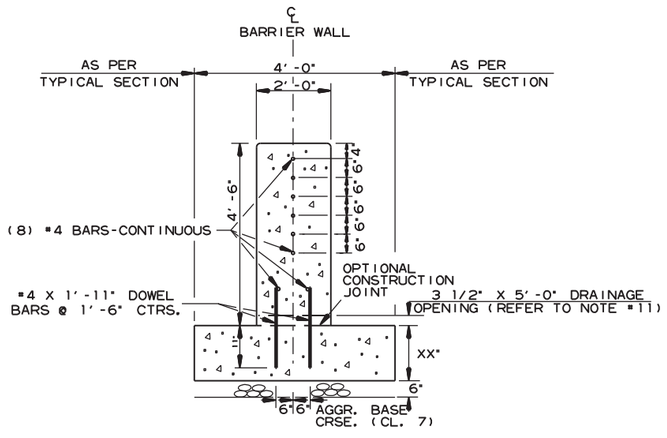
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH

Aug 19 2022 9:42 AM

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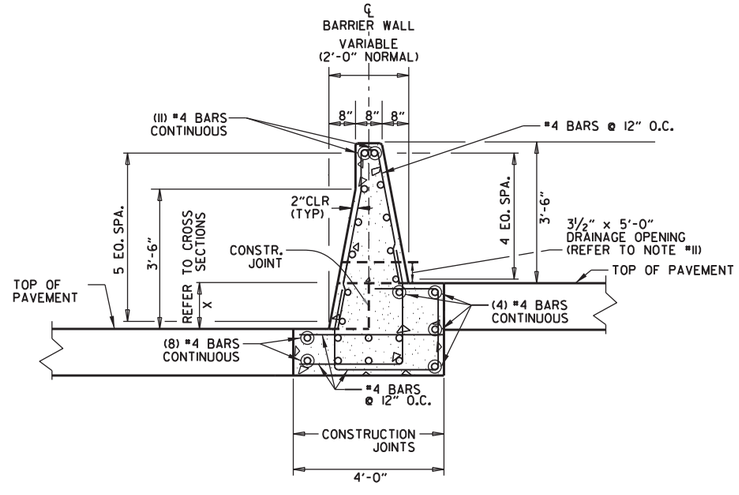
GENERAL NOTES FOR CONCRETE BARRIER WALLS

1. ALL BARRIER WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 631 OF THE STANDARD SPECIFICATIONS, 2014 EDITION.
2. CONTRACTION JOINTS REQUIRED AT 15'-0" MAXIMUM SPACING FOR BARRIER TYPE MEDIAN B. A 30'-0" MAXIMUM SPACING IS REQUIRED FOR TYPE MEDIAN C.
3. ALL CONTRACTION JOINTS TO BE FORMED IN FRESH CONCRETE ON TOP AND IN SIDES OF BARRIER WALL.
4. JOINTS IN PCCB WALL SHOULD ALIGN WITH PCCP JOINTS.
5. DOWEL BARS FOR BARRIER TYPE MEDIAN B WILL NOT BE REQUIRED IF BARRIER AND MINIMUM 4' WIDE BASE ARE CAST AS A COMPLETE UNIT.
6. CONTRACTION JOINTS ARE NOT PERMITTED AT THE DOWEL BAR LOCATIONS.
7. ALL EXPOSED EDGES OF CONCRETE BARRIER WALL SHALL HAVE A 3/4" CHAMFER.
8. THE DESIGN OF BARRIER WALL TYPE MEDIAN C IS BASED ON A MINIMUM FOUNDATION BEARING CAPACITY OF ONE TON PER SQUARE FOOT. UNSTABLE FOUNDATION MATERIAL SHALL BE REMOVED AND REPLACED TO PROVIDE A FIRM FOUNDATION AS DIRECTED BY THE ENGINEER.
9. SPACING BETWEEN EXPANSION JOINTS SHALL NOT EXCEED 400 FT FOR BARRIER TYPE MEDIAN B OR 120 FT FOR BARRIER TYPE MEDIAN C. EXPANSION JOINTS SHALL BE FORMED USING 1" PREFORMED JOINT FILLER. CONTINUOUS REINFORCEMENT SHALL BE CUT 2" CLEAR OF EXPANSION JOINTS.
10. EXPANSION JOINTS SHOULD BE CONSTRUCTED IN BOTH THE FOOTING OF THE STRUCTURE AND THE PCCB WALL.
11. CONSTRUCT DRAINAGE OPENINGS AT SAGS AND ADJACENT TO DROP INLETS IF SHOWN ON THE PLANS. DOWEL BARS SHALL NOT BE PLACED WITHIN 3" OF DRAINAGE OPENINGS.
12. SUBSTITUTE #4 AND #5 VERTICAL BARS WITH #5 TIES(TOP & BOTTOM) PLACED AT 12" SPACING FOR MEDIAN TYPE C BARRIER WALLS.
13. MAINTAIN 3" CLEARANCE ON ALL FOOTING REINFORCEMENT AND 2" CLEARANCE ON ALL OTHER REINFORCEMENT.
14. REFER TO BARRIER MOUNTED LUMINARE SPECIAL DETAILS FOR INFORMATION REGARDING CONDUIT IN CONCRETE BARRIER WALLS. REFER TO ILLUMINATION LAYOUT FOR LOCATIONS OF CONDUIT RUNS.
15. BARRIER REINFORCING BARS ANCHORED INTO EXISTING CONCRETE PAVEMENT SHALL BE INSTALLED AND SECURED ACCORDING TO 804.06 USING AN APPROVED ANCHORING SYSTEM FROM OPL.
16. BARRIER TRANSITIONS WILL BE MEASURED AND PAID FOR AS "CONCRETE BARRIER WALL (MEDIAN TYPE SP-1)".



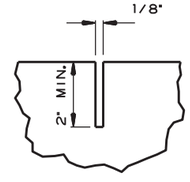
CONCRETE BARRIER WALL
(MEDIAN TYPE SP-1)
X = 0'-0" TO 1'-0" MAX
(SECTION A-A)

N.T.S.



CONCRETE BARRIER WALL
(MEDIAN TYPE B; MASH TL-4)
X = 0'-0" TO 1'-0" MAX

N.T.S.



CONTRACTION JOINT DETAIL

CONCRETE BARRIER WALL (MEDIAN TYPE B AND MEDIAN TYPE C) TRANSITION
FOR OVERHEAD SIGN STRUCTURE

SPECIAL DETAILS

SH35336 8/8/2022
R061754.DGN

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	6	105
		TEMPORARY EROSION CONTROL DETAILS				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH

Aug 19 2022 9:42 AM

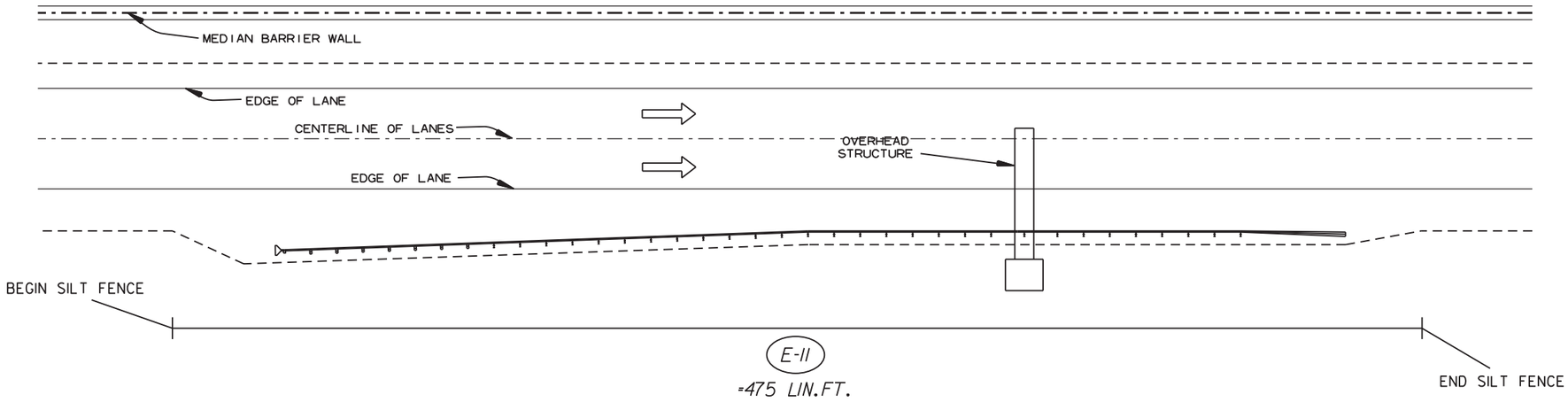
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REVISIONS

DATE OF REVISION	REVISION

LEGEND

E-II = SILT FENCE



TYPICAL SILT FENCE INSTALLATION FOR WIDENING FOR GUARDRAIL AT OVERHEAD SIGN STRUCTURES

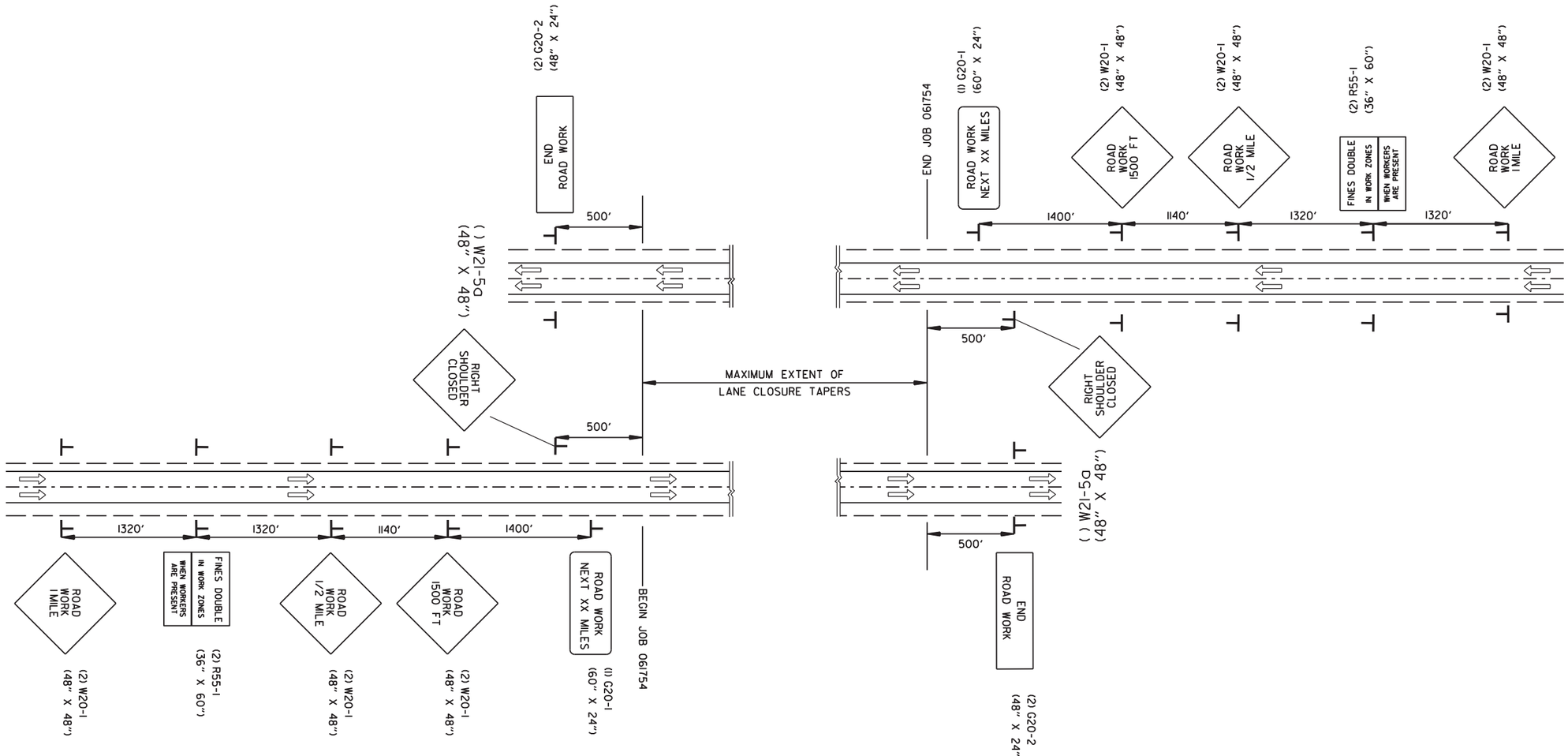
SH35336 8/8/2022
R061754.DGN

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	7	105
		MAINTENANCE OF TRAFFIC				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
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ADVANCE WARNING SIGNS AT JOB ENDS

NOTE: ADVANCE WARNING SIGN PLACEMENT WILL BE IDENTICAL FOR 6-LANE SECTIONS OF ROADWAY

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R061754.DGN

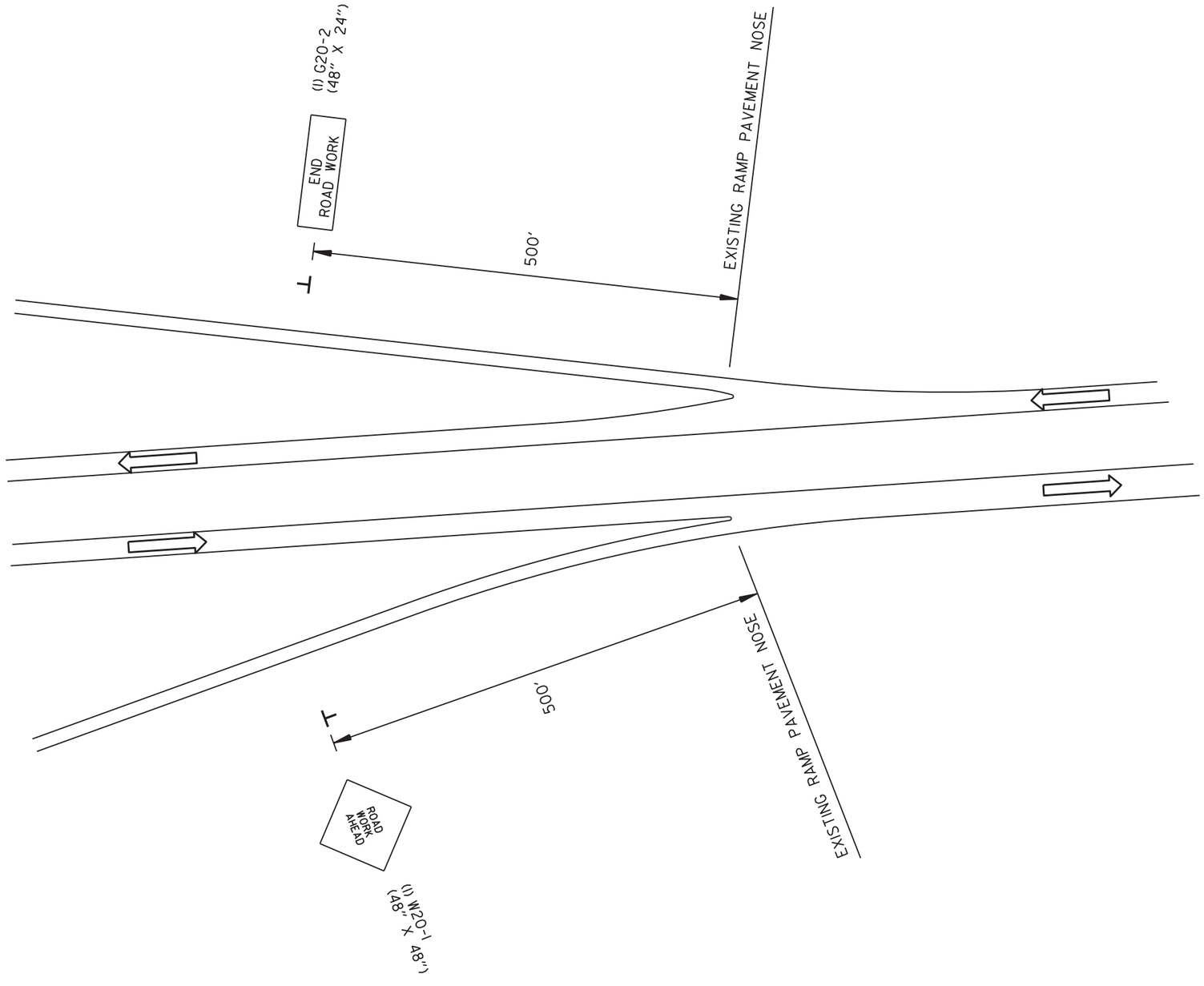
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	8	105
		MAINTENANCE OF TRAFFIC				

STATE OF ARKANSAS
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ADVANCE WARNING SIGNS
DETAIL OF ENTRANCE AND EXIT RAMPS

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R061754.DGN

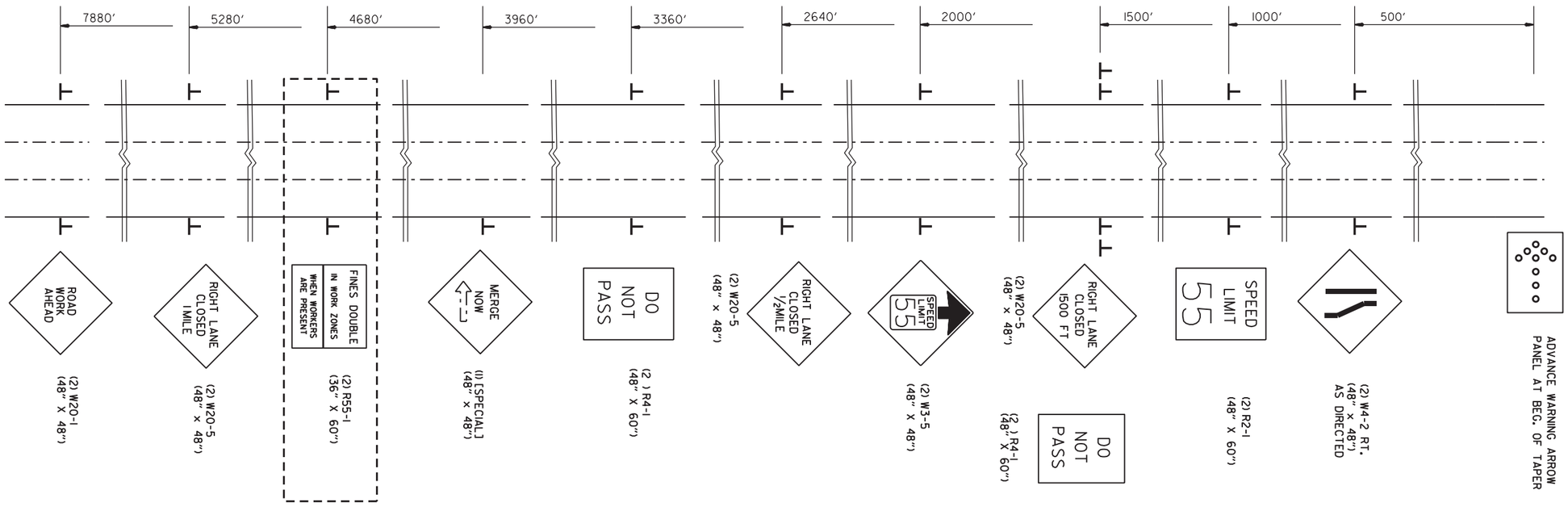
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	9	105
		MAINTENANCE OF TRAFFIC				

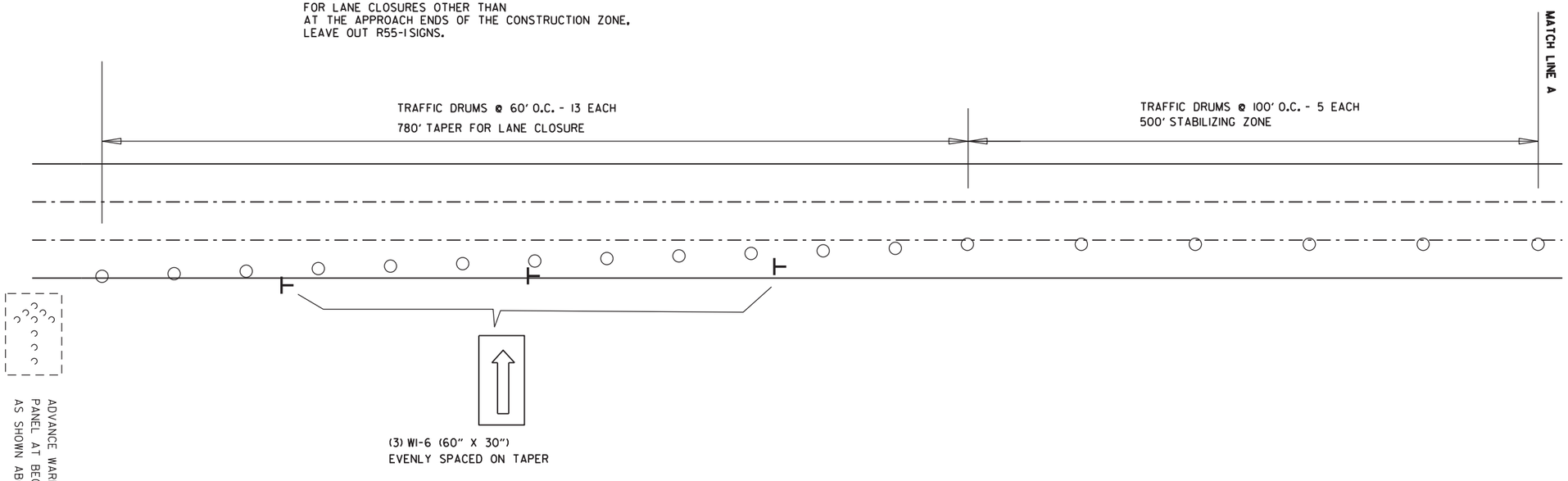
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NOTE:
FOR LANE CLOSURES OTHER THAN
AT THE APPROACH ENDS OF THE CONSTRUCTION ZONE,
LEAVE OUT R55-1 SIGNS.



ADVANCE WARNING SIGNS & TYPICAL TRAFFIC DRUM PLACEMENT FOR OUTSIDE LANE CLOSURE

SH35336 8/8/2022
R061754.DGN

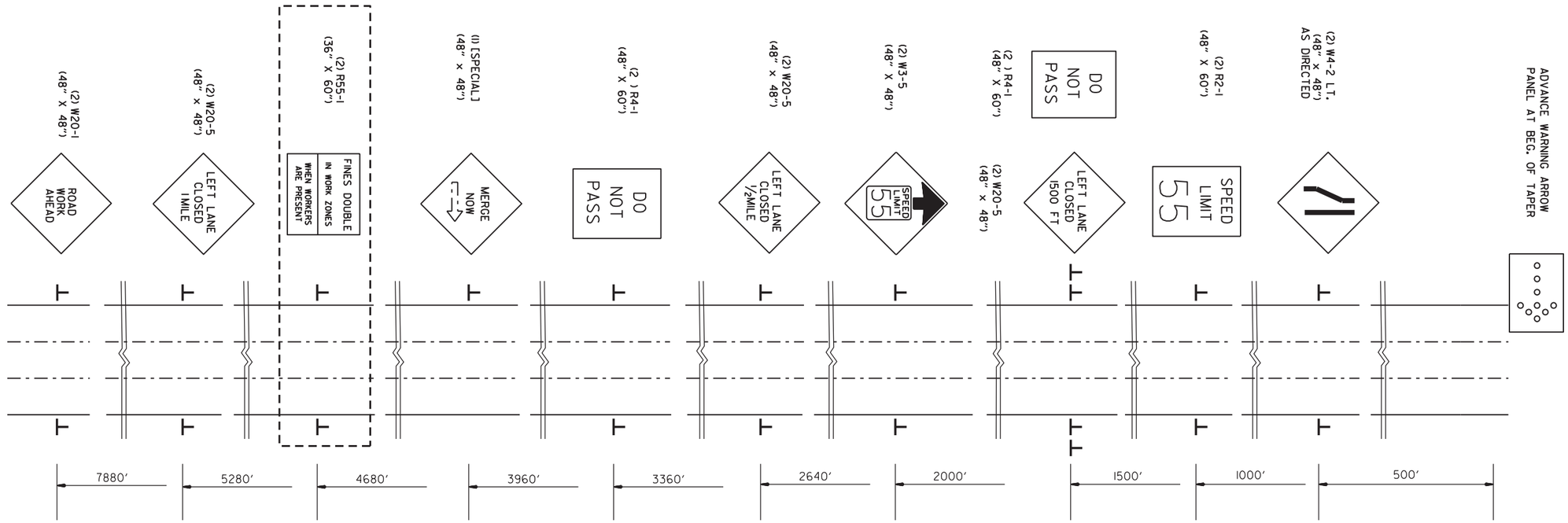
LANE CLOSURE MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	10	105
		MAINTENANCE OF TRAFFIC				

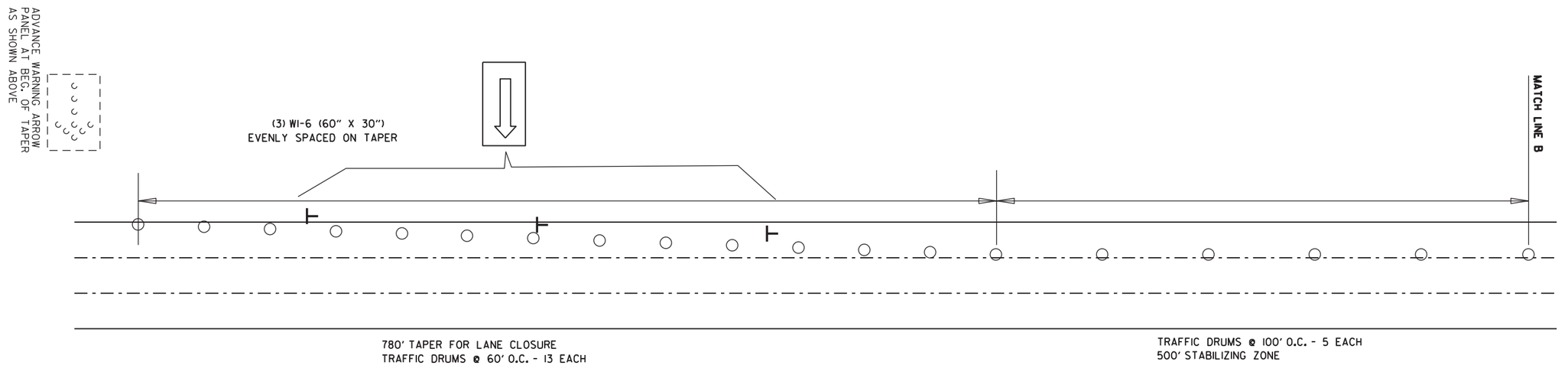
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NOTE:
FOR LANE CLOSURES OTHER THAN
AT THE APPROACH ENDS OF THE CONSTRUCTION ZONE.
LEAVE OUT R55-1 SIGNS.



ADVANCE WARNING SIGNS & TYPICAL TRAFFIC DRUM LAYOUT FOR INSIDE LANE CLOSURES

LANE CLOSURE MAINTENANCE OF TRAFFIC DETAILS

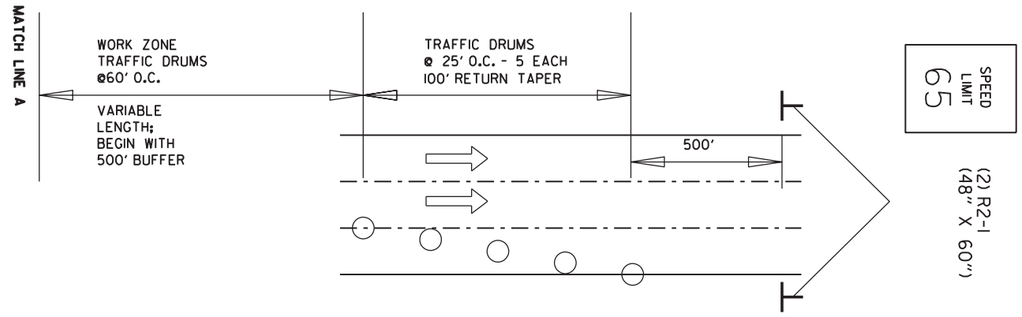
SH35336 8/8/2022
R061754.DGN

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	11	105
		MAINTENANCE OF TRAFFIC				

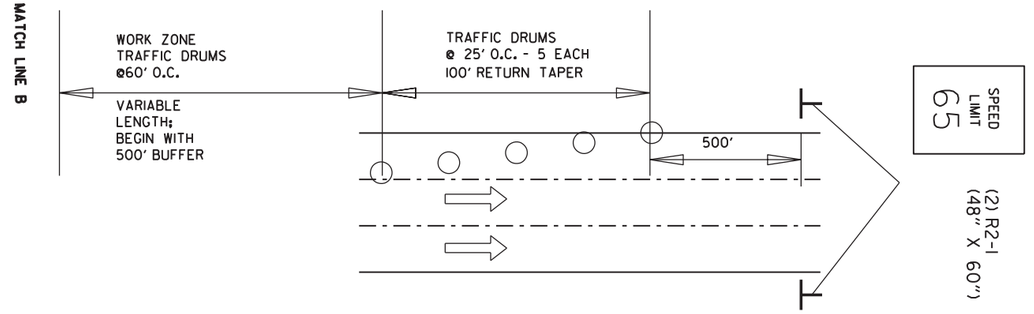
STATE OF ARKANSAS
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DIVERSION FOR OUTSIDE LANE CLOSURE



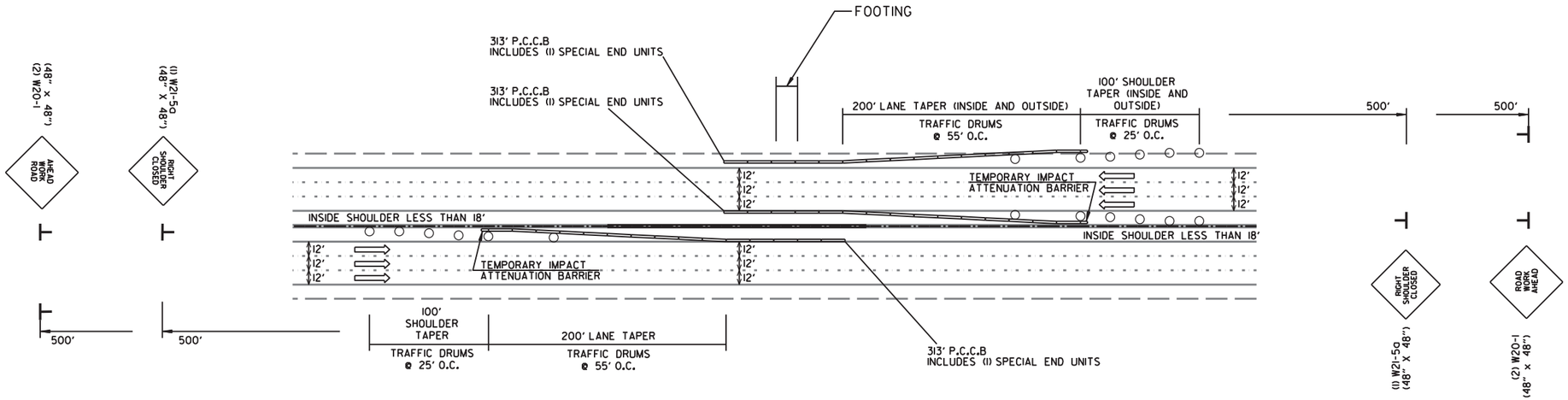
TYPICAL TRAFFIC DRUM LAYOUT
FOR DIVERSION OF LANE CLOSURES

SH35336 8/8/2022
R061754.DGN

LANE CLOSURE
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	12	105
		MAINTENANCE OF TRAFFIC				

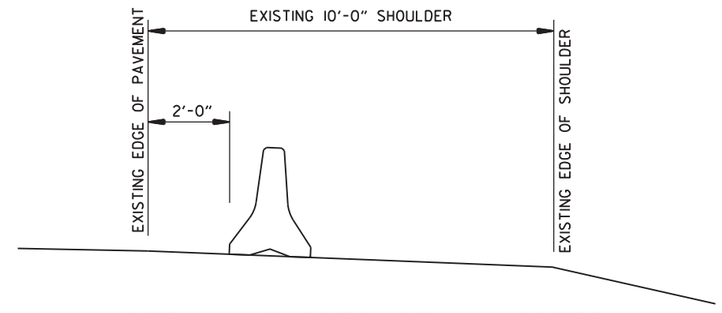
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
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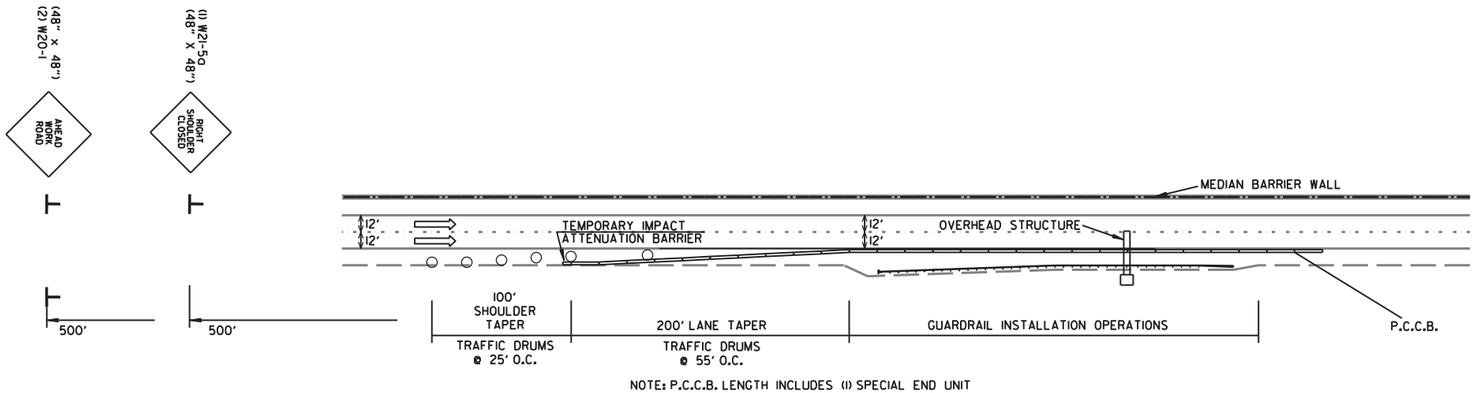
SIGN STRUCTURE	LOG MILE
OH-30-60-89	126.83 EB

NOTE: DRAWING NOT TO SCALE. NORTH POINT ORIENTATION APPROXIMATED FOR I-30 OVERHEAD SIGN STRUCTURE CONSTRUCTION OPERATIONS.

PRECAST CONCRETE BARRIER WALL PLACEMENT FOR OVERHEAD SIGN STRUCTURE REPLACEMENT



DETAIL OF PRECAST CONCRETE BARRIER WALL PLACEMENT ADJACENT TO EXISTING LANE



NOTE: P.C.C.B. LENGTH INCLUDES (1) SPECIAL END UNIT

NOTE: DRAWING NOT TO SCALE. NORTH POINT ORIENTATION APPROXIMATED FOR I-30 OVERHEAD SIGN STRUCTURE CONSTRUCTION OPERATIONS.

PRECAST CONCRETE BARRIER WALL PLACEMENT FOR GUARDRAIL INSTALLATION OPERATIONS

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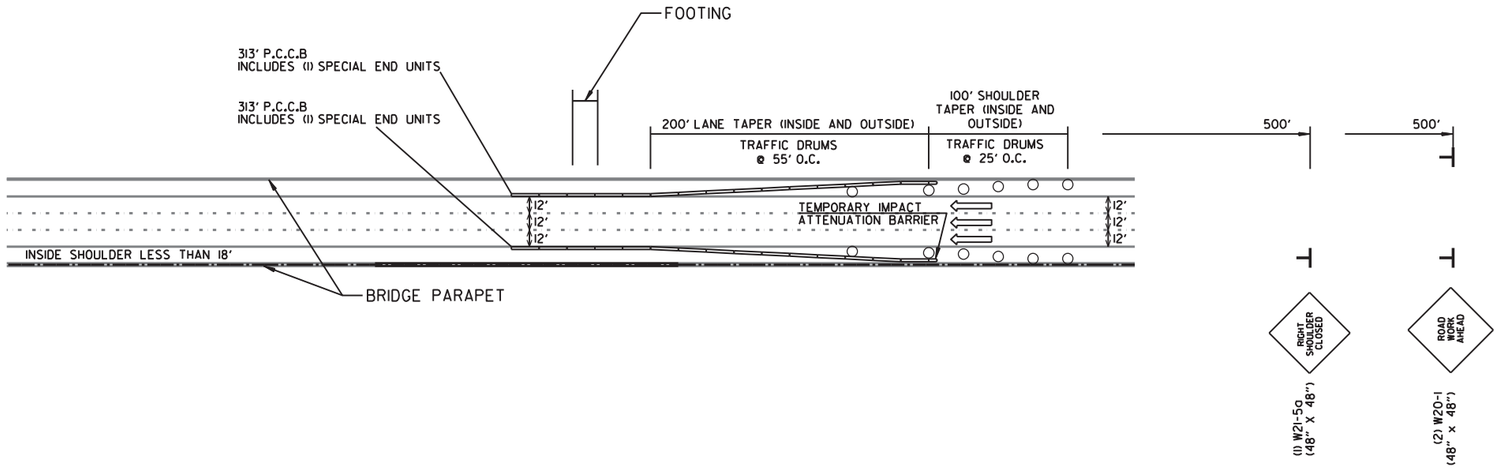
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	13	105
		MAINTENANCE OF TRAFFIC				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH

Aug 19 2022 9:43 AM

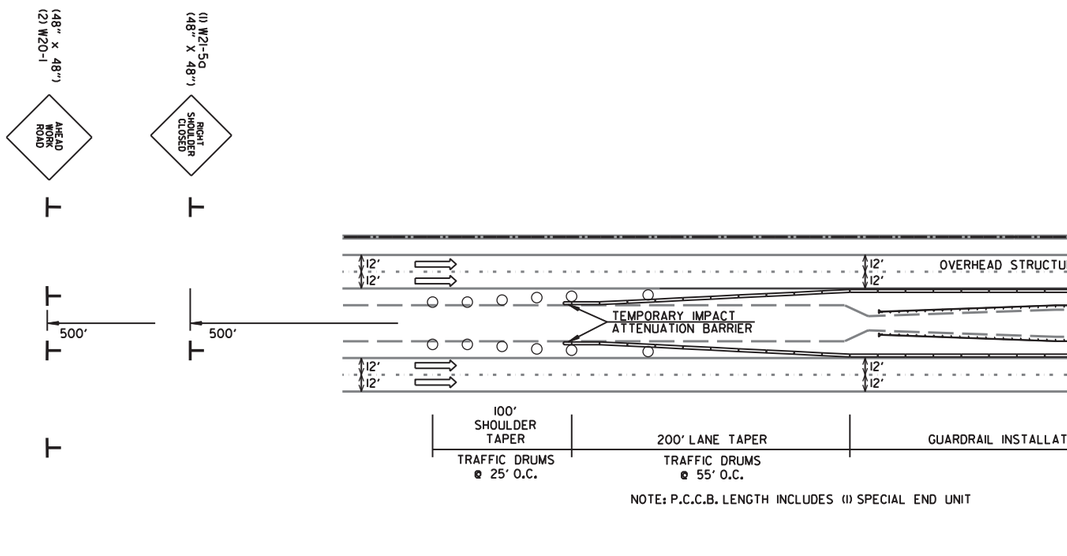
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SIGN STRUCTURE	LOG MILE
OH-440-60-55	0.89 EB

NOTE: DRAWING NOT TO SCALE. NORTH POINT ORIENTATION APPROXIMATED FOR I-440 OVERHEAD SIGN STRUCTURE CONSTRUCTION OPERATIONS.

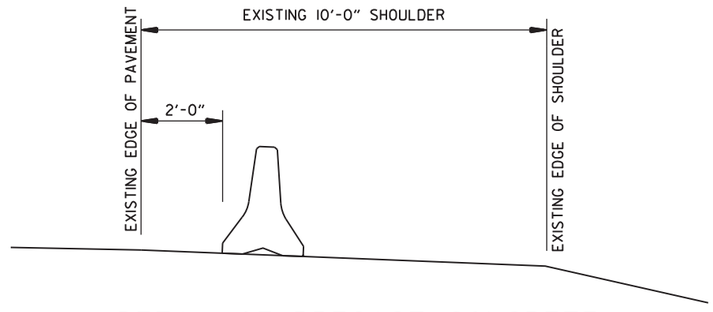
PRECAST CONCRETE BARRIER WALL PLACEMENT FOR OVERHEAD SIGN STRUCTURE REPLACEMENT



NOTE: P.C.C.B. LENGTH INCLUDES (1) SPECIAL END UNIT

NOTE: DRAWING NOT TO SCALE. NORTH POINT ORIENTATION APPROXIMATED FOR I-30 OVERHEAD SIGN STRUCTURE CONSTRUCTION OPERATIONS.

PRECAST CONCRETE BARRIER WALL PLACEMENT FOR GUARDRAIL INSTALLATION OPERATIONS BETWEEN MAIN LANES AND FRONTAGE ROAD



DETAIL OF PRECAST CONCRETE BARRIER WALL PLACEMENT ADJACENT TO EXISTING LANE

SH35336 8/8/2022
R061754.DGN

MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
9-16-2022		6	ARK.	061754	14	105
		QUANTITIES				

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	ENTIRE PROJECT	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		TRAFFIC DRUMS	FURNISHING & INSTALLING PRECAST CONC. BARRIER	RELOCATING PRECAST CONCRETE BARRIER	TEMPORARY IMPACT ATTENUATION BARRIER	TEMP. IMPACT ATTEN.BARR. (REPAIR)	* ADVANCE WARNING ARROW PANEL	* PORTABLE CHANGEABLE MESSAGE SIGN
			LIN. FT. - EACH		NO.	SQ. FT.	EACH	LIN. FT.		EACH		DAY	WEEK
W20-1	ROAD WORK 1500 FT.	48"x48"	20	20	20	320.0							
W20-1	ROAD WORK 1/2 MILE	48"x48"	20	20	20	320.0							
W20-1	ROAD WORK 1 MILE	48"x48"	20	20	20	320.0							
W20-1	ROAD WORK AHEAD	48"x48"	22	22	22	352.0							
G20-2	END ROAD WORK	48"x24"	20	20	20	160.0							
G20-1	ROAD WORK NEXT xx MILES	60"x24"	10	10	10	100.0							
R55-1	FINES DOUBLE IN WORK ZONES	60"X36"	20	20	20	300.0							
W21-5a	RIGHT SHOULDER CLOSED	36"x36"	11	11	11	99.0							
	TRAFFIC DRUMS		117	117			117						
	FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER		4550	4550				4550					
	RELOCATING PRECAST CONCRETE BARRIER		6120	6120					6120				
	TEMPORARY IMPACT ATTENUATION BARRIER		17	17						17			
	TEMPORARY IMPACT ATTENUATION BARRIER (REPAIR)		34	34							34		
	ADVANCE WARNING ARROW PANEL		20	20								20	
	PORTABLE CHANGEABLE MESSAGE SIGN		4	4									4
TOTALS:						**1971.0**	**117**	**4550**	**6120**	**17**	**34**	**20**	**4**

NOTE: THIS IS A HIGH TRAFFIC VOLUME ROAD AS DEFINED IN SECTION 604.03, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

* QUANTITY ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.
TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.

BASE AND SURFACING

LOG MILE	DIRECTION	LOCATION	LENGTH	AGGREGATE BASE COURSE (CLASS 7)		ACHM SURFACE COURSE (1/2")			
				TON / STATION	TON	AVG. WID.	SQ.YD.	POUND / SQ.YD.	TOTAL PG 64-22
			FEET			FEET			TON
MAIN LANES - GUARDRAIL									
126.83	EB	I-30 FRONTAGE RD - GUARDRAIL WIDENING	335.79	31.18	104.70	5.50	205.21	220.00	22.57
126.83	EB	I-30 FRONTAGE RD - GUARDRAIL WIDENING TAPERS	66.00	VAR.	10.30	VAR.	20.17	220.00	2.22
9.75	WB	I-30 - GUARDRAIL WIDENING	335.79	31.18	104.70	5.50	205.21	220.00	22.57
9.75	WB	I-30 - GUARDRAIL WIDENING TAPERS	66.00	VAR.	10.30	VAR.	20.17	220.00	2.22
117.41	EB	I-30 FRONTAGE RD - GUARDRAIL WIDENING	335.79	31.18	104.70	5.50	205.21	220.00	22.57
117.41	EB	I-30 FRONTAGE RD - GUARDRAIL WIDENING TAPERS	66.00	VAR.	10.30	VAR.	20.17	220.00	2.22
20.85	WB	I-30 - GUARDRAIL WIDENING	335.79	31.18	104.70	5.50	205.21	220.00	22.57
20.85	WB	I-30 - GUARDRAIL WIDENING TAPERS	66.00	VAR.	10.30	VAR.	20.17	220.00	2.22
20.85	WB	I-30 FRONTAGE RD - GUARDRAIL WIDENING	335.79	31.18	104.70	5.50	205.21	220.00	22.57
20.85	WB	I-30 FRONTAGE RD - GUARDRAIL WIDENING TAPERS	66.00	VAR.	10.30	VAR.	20.17	220.00	2.22
120.17	EB	I-30 - GUARDRAIL WIDENING	335.79	31.18	104.70	5.50	205.21	220.00	22.57
120.17	EB	I-30 - GUARDRAIL WIDENING TAPERS	66.00	VAR.	10.30	VAR.	20.17	220.00	2.22
120.17	EB	I-30 FRONTAGE RD - GUARDRAIL WIDENING	335.79	31.18	104.70	5.50	205.21	220.00	22.57
120.17	EB	I-30 FRONTAGE RD - GUARDRAIL WIDENING TAPERS	66.00	VAR.	10.30	VAR.	20.17	220.00	2.22
125.31	EB	I-30 - GUARDRAIL WIDENING	335.79	31.18	104.70	5.50	205.21	220.00	22.57
125.31	EB	I-30 - GUARDRAIL WIDENING TAPERS	66.00	VAR.	10.30	VAR.	20.17	220.00	2.22
125.31	EB	I-30 FRONTAGE RD - GUARDRAIL WIDENING	335.79	31.18	104.70	5.50	205.21	220.00	22.57
125.31	EB	I-30 FRONTAGE RD - GUARDRAIL WIDENING TAPERS	66.00	VAR.	10.30	VAR.	20.17	220.00	2.22
19.21	WB	I-30 - GUARDRAIL WIDENING	335.79	31.18	104.70	5.50	205.21	220.00	22.57
19.21	WB	I-30 - GUARDRAIL WIDENING TAPERS	66.00	VAR.	10.30	VAR.	20.17	220.00	2.22
19.21	WB	I-30 FRONTAGE RD - GUARDRAIL WIDENING	335.79	31.18	104.70	5.50	205.21	220.00	22.57
19.21	WB	I-30 FRONTAGE RD - GUARDRAIL WIDENING TAPERS	66.00	VAR.	10.30	VAR.	20.17	220.00	2.22
21.75	WB	I-30 - GUARDRAIL WIDENING	335.79	31.18	104.70	5.50	205.21	220.00	22.57
21.75	WB	I-30 - GUARDRAIL WIDENING TAPERS	66.00	VAR.	10.30	VAR.	20.17	220.00	2.22
23.83	WB	I-30 - GUARDRAIL WIDENING	335.79	31.18	104.70	5.50	205.21	220.00	22.57
23.83	WB	I-30 - GUARDRAIL WIDENING TAPERS	66.00	VAR.	10.30	VAR.	20.17	220.00	2.22
23.83	WB	I-30 FRONTAGE RD - GUARDRAIL WIDENING	335.79	31.18	104.70	5.50	205.21	220.00	22.57
23.83	WB	I-30 FRONTAGE RD - GUARDRAIL WIDENING TAPERS	66.00	VAR.	10.30	VAR.	20.17	220.00	2.22
TOTALS:					**1610.00**		**3155.32**		**347.06**

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (1/2").....95.0% MIN. AGGR.....5.0% ASPHALT BINDER
MAXIMUM NUMBER OF GYRATIONS = 115 FOR PG 64-22
TACK COAT QUANTITIES WERE CALCULATED USING THE EMULSIFIED ASPHALT RATES. REFER TO SS-400-1 FOR THE RESIDUAL ASPHALT APPLICATION RATES.

EROSION CONTROL

STATION	STATION	LOCATION	PERMANENT EROSION CONTROL						
			SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	SILT FENCE (E-11)	*SEDIMENT REMOVAL & DISPOSAL
			ACRE	TON	ACRE	M.GAL.	ACRE	LIN. FT.	CU. YD.
ENTIRE	PROJECT	MAIN LANES	0.70	1.40	0.70	71.4	0.70	6650	246
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.			0.25	0.50	0.25	25.5	0.25	200	7
TOTALS:			**0.95**	**1.90**	**0.95**	**96.9**	**0.95**	**6850**	**253**

BASIS OF ESTIMATE:
LIME .....2 TONS / ACRE OF SEEDING
WATER.....102.0 M.G. / ACRE OF SEEDING

NOTE: THE TEMPORARY EROSION CONTROL DEVICES SHOWN ABOVE AND ON THE PLANS SHALL BE INSTALLED IN SUCH A SEQUENCE AS TO DETER EROSION AND SEDIMENTATION ON U.S. WATERWAYS AS EXPLAINED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

*QUANTITIES ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.

EARTHWORK

ROUTE	LOG MILE	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	*SOIL STABILIZATION
			CU. YD.	TON
I-30	126.83	EB FRONTAGE RD - LT	21	
I-30	9.75	WB MAIN LANES - RT	21	
I-30	117.41	EB FRONTAGE RD - LT	21	
I-30	20.85	WB MAIN LANES - RT	21	
I-30	20.85	WB FRONTAGE RD - LT	21	
I-30	120.17	EB MAIN LANES - RT	21	
I-30	120.17	EB FRONTAGE RD - LT	21	
I-30	125.31	EB MAIN LANES - RT	21	
I-30	125.31	EB FRONTAGE RD - LT	21	
I-30	19.21	WB MAIN LANES - RT	21	
I-30	19.21	WB FRONTAGE RD - LT	21	
I-30	21.75	WB FRONTAGE RD - LT	21	
I-30	23.83	WB MAIN LANES - RT	21	
I-30	23.83	WB FRONTAGE RD - LT	21	
ENTIRE	PROJECT	TO BE USED IF AND WHERE		50
		DIRECTED BY THE ENGINEER		
TOTALS:			**294**	**50**

NOTE: EARTHWORK QUANTITIES SHALL BE PAID AS PLAN QUANTITY.
* QUANTITY ESTIMATED.

CONCRETE BARRIER WALL

LOG MILE	LOCATION	MEDIAN (TYPE B)
		LIN. FT.
126.83 EB	I-30 (MEDIAN) (OH-30-60-89)	200
TOTALS:		200

REMOVAL AND DISPOSAL OF ITEMS

LOG MILE	LOCATION	BARRIER WALLS	SIGN FOUNDATIONS	OVERHEAD SIGN STRUCTURE
		LIN. FT.	EACH	EACH
0.89 EB	I-440 (OH-440-60-01)		2	1
126.83 EB	I-30 (MEDIAN) (OH-30-60-89)	218		
TOTALS:		**218**	**2**	**1**

NOTE: THE QUANTITY SHOWN ABOVE FOR THE REMOVAL AND DISPOSAL OF GUARDRAIL SHALL INCLUDE THE REMOVAL AND DISPOSAL OF ALL GUARDRAIL TERMINALS AND TERMINAL ANCHOR POSTS.

GUARDRAIL

ROUTE	LOG MILE	LOCATION	GUARDRAIL (TYPE A)	GUARDRAIL TERMINAL (TYPE 2)	TERMINAL ANCHOR POST (TYPE 1)
			LIN. FT.	EACH	
I-30	126.83	EB FRONTAGE RD - LT	275	1	1
I-30	9.75	WB MAIN LANES - RT	275	1	1
I-30	117.41	EB FRONTAGE RD - LT	275	1	1
I-30	20.85	WB MAIN LANES - RT	275	1	1
I-30	20.85	WB FRONTAGE RD - LT	275	1	1
I-30	120.17	EB MAIN LANES - RT	275	1	1
I-30	120.17	EB FRONTAGE RD - LT	275	1	1
I-30	125.31	EB MAIN LANES - RT	275	1	1
I-30	125.31	EB FRONTAGE RD - LT	275	1	1
I-30	19.21	WB MAIN LANES - RT	275	1	1
I-30	19.21	WB FRONTAGE RD - LT	275	1	1
I-30	21.75	WB FRONTAGE RD - LT	275	1	1
I-30	23.83	WB MAIN LANES - RT	275	1	1
I-30	23.83	WB FRONTAGE RD - LT	275	1	1
TOTALS:			**3850**	**14**	**14**

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH

Smith, Trinity D.
Sep 16 2022 11:27 AM

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R061754.DGN

QUANTITIES

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
9-16-2022		6	ARK.	061754	15	105
		SUMMARY OF QUANTITIES AND REVISIONS				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH

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SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
202	REMOVAL AND DISPOSAL OF BARRIER WALL	218	LIN. FT.
202	REMOVAL AND DISPOSAL OF SIGN FOUNDATIONS	2	EACH
202	REMOVAL AND DISPOSAL OF OVERHEAD SIGN STRUCTURE	1	EACH
SP, SS, & 210	UNCLASSIFIED EXCAVATION	294	CU. YD.
SP & 210	SOIL STABILIZATION	50	TON
SP, SS, & 303	AGGREGATE BASE COURSE (CLASS 7)	1610	TON
SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	330	TON
SP, SS, & 407	ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (1/2")	17	TON
601	MOBILIZATION	1.00	LUMP SUM
SP, SS, & 603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
SS & 604	SIGNS	1971	SQ. FT.
SS & 604	TRAFFIC DRUMS	117	EACH
SS & 604	FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER	4550	LIN. FT.
SS & 604	RELOCATING PRECAST CONCRETE BARRIER	6120	LIN. FT.
SS & 604	ADVANCE WARNING ARROW PANEL	20	DAY
SP, SS, & 604	PORTABLE CHANGEABLE MESSAGE SIGN	4	WEEK
SS & 617	GUARDRAIL (TYPE A)	3850	LIN. FT.
SS & 617	TERMINAL ANCHOR POSTS (TYPE 1)	14	EACH
SS & 617	GUARDRAIL TERMINAL (TYPE 2)	14	EACH
620	LIME	2	TON
620	SEEDING	0.95	ACRE
SS & 620	MULCH COVER	0.95	ACRE
620	WATER	96.9	M. GAL.
621	SILT FENCE	6850	LIN. FT.
621	SEDIMENT REMOVAL AND DISPOSAL	253	CU. YD.
623	SECOND SEEDING APPLICATION	0.95	ACRE
SS & 631	CONCRETE BARRIER WALL (MEDIAN TYPE B)	200	LIN. FT.
635	ROADWAY CONSTRUCTION CONTROL	1.00	LUMP SUM
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-440-60-55)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-30-60-89)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-60-91)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-60-92)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-62-34)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-62-35)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-62-36)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-62-37)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-62-38)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-62-39)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-62-40)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-30-60-90)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-30-62-27)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-30-62-42)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-30-62-28)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-30-62-29)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-30-62-30)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-30-62-31)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-30-62-32)	1	EACH
SP	MODIFICATION OF EXISTING OVERHEAD SIGN STRUCTURE	8	EACH
SS & 725	GUIDE SIGN-ROADSIDE MOUNTED (DEMOUNTABLE LEGEND)	10286	SQ. FT.
SS & 725	GUIDE SIGN-OVERHEAD MOUNTED (DEMOUNTABLE LEGEND)	3202	SQ. FT.
SS & 726	STANDARD SIGN	1703	SQ. FT.
SS & 727	EXIT NUMBER PANEL (TYPE A)	993	SQ. FT.
SS & 727	EXIT NUMBER PANEL (TYPE B)	199	SQ. FT.
SS & 727	EXIT NUMBER PANEL (TYPE C)	63	SQ. FT.
SS & 730	BREAKAWAY SIGN SUPPORT (TYPE G-2)	61558	POUND
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G-1)	22	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G-2)	47	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-1)	50	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-2)	3	EACH
SS & 731	TEMPORARY IMPACT ATTENUATION BARRIER	17	EACH
SS & 731	TEMPORARY IMPACT ATTENUATION BARRIER (REPAIR)	34	EACH

REVISIONS

DATE	REVISION	SHEET NUMBER
9/16/2022	REVISED SP "SPECIAL SAFETY REQUIREMENTS FOR OVERHEAD SIGNS", PROVIDED SP "MODIFICATIONS OF EXISTING SIGN FOUNDATION", ADDED UNIT TO SOIL STABILIZATION IN QUANTITIES, REVISED PAY ITEM NUMBER FOR UNCLASSIFIED EXCAVATION, REVISED PERFORMANCE GRADE FOR ACHM SURFACE COURSE TO PG 64-22, REVISED PAY ITEM NUMBER FOR GUARDRAIL, REVISED PAY ITEM NAME FOR STEEL CANTILEVER SIGN STRUCTURE (OC-30-62-XX) TO STEEL CANTILEVER SIGN STRUCTURE (OC-30-62-42)	14 & 15

dwoc553 8/18/2022
R061754.DGN

DATE REVISED	DATE REVISED	FED.RD. DST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	16	105
		SIGNING SUMMARY OF QUANTITIES				

SIGNING SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	TOTAL	UNIT
202	REMOVAL AND DISPOSAL OF OVERHEAD SIGN STRUCTURE	1	EACH
SS & 303	AGGREGATE BASE COURSE (CLASS 7)	1403	TON
SP, SS & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	372	TON
SP, SS & 407	ASPHALT BINDER (PG 76-22) IN ACHM SURFACE COURSE (1/2")	20	TON
SS & 617	GUARDRAIL (TYPE A)	3850	LIN.FT.
SS & 617	TERMINAL ANCHOR POSTS (TYPE 1)	14	EACH
SS & 617	GUARDRAIL TERMINAL (TYPE 2)	14	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-440-60-55)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-30-60-89)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-30-60-90)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-30-62-27)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-30-62-42)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-30-62-28)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-30-62-29)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-30-62-30)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-30-62-31)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-30-62-32)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-60-91)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-60-92)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-62-34)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-62-35)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-62-36)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-62-37)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-62-38)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-62-39)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-30-62-40)	1	EACH
SP	MODIFICATION OF EXISTING OVERHEAD SIGN STRUCTURE	8	EACH
SS & 725	GUIDE SIGN - ROADSIDE MOUNTED (DEMOUNTABLE LEGEND)	10285.5	SQ. FT.
SS & 725	GUIDE SIGN - OVERHEAD MOUNTED (DEMOUNTABLE LEGEND)	3201.75	SQ. FT.
SS, & 726	STANDARD SIGN	1703	SQ. FT.
SS & 727	EXIT NUMBER PANEL (TYPE A)	993	SQ. FT.
SS & 727	EXIT NUMBER PANEL (TYPE B)	198.75	SQ. FT.
SS & 727	EXIT NUMBER PANEL (TYPE C)	62.5	SQ. FT.
SS & 730	BREAKAWAY SIGN SUPPORT (TYPE G-2)	61558.28	POUND
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G1)	22	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2)	47	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-1)	50	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-2)	3	EACH

NOTES:

ALL EXISTING GUIDE SIGNS SHALL BE MAINTAINED IN SUCH A MANNER THAT THE SIGNS ARE FULLY VISIBLE, INTACT, AND ERECT FOR THE DURATIONS OF THE PROJECT, AND SHALL BE REMOVED WHEN THEIR USE IS NOT LONGER REQUIRED. REMOVAL AND DISPOSAL OF SIGNS, SUPPORTS AND FOUNDATIONS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT.

THE EXISTING SIGNS AND SUPPORTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE EXISTING FOOTINGS SHALL BE REMOVED AND THE HOLES FILLED WITH A SUITABLE MATERIAL AND COMPACTED.

EXISTING LOGOS WILL BE RELOCATED TO THE NEW LOGO SIGN BY THE CONTRACTOR. THE LOGO INSTALLATION SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT.

THE EXISTING SIGNS NOT NOTED IN THE PLANS SHALL BE MAINTAINED AND LEFT INTACT FOR THE DURATION OF THE PROJECT.

THE CONTRACTOR SHOULD MAKE EVERY EFFORT TO LOCATE BURIED UTILITIES PRIOR TO EXCAVATIONS INCLUDING, BUT NOT LIMITED TO, CALLING ARKANSAS ONE CALL CENTER (800) 482-8998 FOR LOCATES. SHOULD IT BE DETERMINED A POSSIBILITY OF A UTILITY CONFLICT, CONTRACTOR SHALL CONSULT WITH THE RESIDENT ENGINEER FOR FUTHER GUIDANCE.

BREAKAWAY SIGN SUPPORT TOTAL IS CALCULATED BY TAKING THE LENGTH OF H1, H2, H3 AND THE STUB POST AND MULTIPLYING BY THE BEAM WEIGHT (LBS).

BASIS OF ESTIMATE:
NMAX=205
MINERAL AGGREGATE 95.0%
ASPHALT BINDER (PG 76-22) 5.0%

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
Aug 4 2022 9:32 AM
DocuSign

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	17	105
		SIGNING QUANTITIES				

OVERHEAD SIGNING QUANTITIES (BOX 1 OF 1)

SIGN NO./ LOCATION	STRUCTURE TYPE: INSTALL SIGN STRUCTURE ST	INSTALL SIGN STRUCTURE OC	INSTALL SIGN STRUCTURE OH	INSTALL SIGN STRUCTURE BM	REMOVE EXISTING SIGN STRUCTURE ST	REMOVE EXISTING SIGN STRUCTURE OC	REMOVE EXISTING SIGN STRUCTURE OH	REMOVE EXISTING SIGN STRUCTURE BM	MODIFICATION OF EXISTING SIGN STRUCTURE ST	MODIFICATION OF EXISTING SIGN STRUCTURE OC	MODIFICATION OF EXISTING SIGN STRUCTURE OH	MODIFICATION OF EXISTING SIGN STRUCTURE BM	GUIDE SIGN LENGTH LIN. FT.	GUIDE SIGN HEIGHT LIN. FT.	GUIDE SIGN SQ. FT.	EXIT NUMBER PANEL LEGEND	EXIT NUMBER PANEL TYPE A SQ. FT.	EXIT NUMBER PANEL TYPE B SQ. FT.	EXIT NUMBER PANEL TYPE C SQ. FT.	OVERHEAD DMS ASSEMBLY EACH	STD. SIGN SQ. FT.	GUARDRAIL TYPE A LIN. FT.	GUARDRAIL TERM. ANCHOR POSTS TYPE 1 EACH	GUARDRAIL TERM. TYPE 2 EACH	GUARDRAIL AGG. BASE CR (CL. 7) TON	GUARDRAIL ACHM SURF. CR. 220 LBS/SY TON
OH-440-60-01							1																				
OH-440-60-55			1																								
OH-30-60-89			1																			275	1	1	115	28
OH30-129-5EB													13.50	10.50	141.75	129	23.75									
OH30-128-3EB													19.00	10.50	199.50	128	23.75									
OC-30-60-90		1																				275	1	1	115	28
OC-30-133-1WB													16.50	8.50	140.25	133	23.75				20.00					
OC-30-62-27		1																				275	1	1	115	28
OC30-118-1EB													9.50	8.50	80.75	118	23.75				20.00					
OC-30-62-42WB		1																				550	2	2	230	56
OC30-121-2WB													9.50	8.00	76.00	121	23.75									
OC-30-62-28		1																				550	2	2	23	56
OC30-121-1EB													9.50	8.50	80.75	121	23.75				20.00					
OC-30-62-29		1																				550	2	2	230	56
OC30-126-2EB													12.50	11.00	137.50	126	23.75									
OC-30-62-30		1																				550	2	2	230	56
OC30-123-1WB													10.50	12.00	126.00	123	23.75				20.00					
OC-30-62-31		1																				275	1	1	115	28
OC30-121-1WB													9.50	8.50	80.75	121	23.75				20.00					
OC-30-62-32		1																				550	2	2	230	56
OC30-118-1WB													9.50	8.50	80.75	118	23.75				20.00					
BM-30-60-91				1																							
BM30-126-3WB													12.50	11.00	137.50	126	23.75									
BM-30-60-92				1																							
BM30-124-1WB													15.50	5.50	85.25	124	23.75									
BM-30-62-34				1																							
BM30-118-1EB													9.50	8.00	76.00	118	23.75									
BM-30-62-35				1																							
BM30-121-1EB													9.50	8.00	76.00	121	23.75									
BM-30-62-36				1																							
BM30-123-1EB													11.50	11.00	126.50	123	23.75									
BM-30-62-37				1																							
BM30-123-1WB													11.50	11.00	126.50	123	23.75									
BM-30-62-38				1																							
BM30-121-1WB													9.50	8.00	76.00	121	23.75									
BM-30-62-39				1																							
BM30-118-1WB													9.50	8.00	76.00	118	23.75									
BM-30-62-40				1																							
BM30-118-2WB													9.50	8.00	76.00	118	23.75									
OH-30-30-01											1																
OH30-98B-1EB													14.50	9.50	137.75	98B		23.75									
OH30-98A-1EB													11.50	10.50	120.75	98A		23.75			20.00					
OH-30-30-03											1																
OH30-98A-1WB													10.50	9.50	99.75	98A		23.75									
OH30-98B-1WB													19.50	7.50	146.25	98B		23.75									
OH-30-62-07											1																
OH30-123-1WB													11.50	11.50	132.25	123	23.75				20.00					
OH-30-62-08											1																
OH30-123-1EB													11.50	12.50	143.75	123	23.75				20.00					
OH-630-60-11											1																
OH630-3B-1WB													11.50	9.50	109.25	3B		20.00									
OH-630-60-12											1																
OH630-3B-2WB													14.50	7.00	101.50	3B		20.00									
OH-630-60-60											1																
OH630-3B-1EB													11.50	9.50	109.25	3B		20.00									
OH-630-60-32											1																
OH630-3B-2EB													14.50	7.00	101.50	3B		20.00									
TOTALS:		**8**	**2**	**9**			**1**				**8**				**3201.75**		**498.75**	**175.00**			**180**	**3850**	**14**	**14**	**1403**	**392**



DATE REVISED	DATE REVISED	F.E.D.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	18	105
		SIGNING QUANTITIES				

MAIN LANES ROADSIDE MOUNTED SIGNING QUANTITIES (BOX 1 OF 2)

SIGN NO./ LOCATION	OMNI-DIRECTIONAL SIGN SUPPORT			I-BEAM STRUCTURE TYPE			GUIDE SIGN DEMOUNTABLE LEGEND			I-BEAM BREAKAWAY SIGN SUPPORT												EXIT NUMBER PANEL				SUPPLEMENTAL	
										STEEL SECT. A-572		SIGN POST LENGTH			STUB POST			FOOTINGS			SIGN POST AND STUB	LEGEND	TYPE			GUIDE SIGN DEMOUNTABLE	
							LENGTH	HEIGHT				H - 1	H - 2	H - 3	H - 1	H - 2	H - 3	DIA.	DEPTH	EMBED.			A	B	C	LEGEND	SQ. FT.
	G1	G2	G3	G1	G2	G3	LIN. FT.		SQ. FT.	BEAM	LBS	LIN FT			LIN FT			LIN FT			POUND		SQ. FT.				
EXIT 83-EB		1					6.50	5.00	32.50																		
EXIT 91-EB		1					6.50	5.00	32.50																		
EXIT 97-EB		1					6.50	5.00	32.50																		
EXIT 99-EB		1					6.50	5.00	32.50																		
EXIT 99-WB		1					6.50	5.00	32.50																		
EXIT 97-WB		1					6.50	5.00	32.50																		
EXIT 83-WB		1					6.50	5.00	32.50																		
EIT 118-EB		1					7.50	5.00	37.50																		
EXIT 91-WB		1					7.00	7.00	49.00																		
EXIT 99B-WB		1					8.50	7.00	59.50																		
EXIT 106-EB		1					7.50	5.00	37.50																		
EXIT 121-WB		1					7.50	5.00	37.50																		
EXIT 106-WB		1					7.50	5.00	37.50																		
LGX30-83EB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LL30-98AB-EB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LF30-98AEB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LXC30-91EB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LGL30-121EB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LA30-98B-EB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LA30-98B-WB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LXC30-91WB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LF30-98AWB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LL30-98BA-WB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LGX30-83WB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LF30-118EB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LL30-118EB					1		13.00	14.00	182.00	W8	21.00	21.00	22.00		3.99	3.99		2.50	5.50	3.66	1070.58						
LFL30-128EB					1		13.00	16.00	208.00	W10	22.00	23.00	24.00		7.00	7.00		3.00	10.00	6.67	1342.00						
LG30-126WB					1		13.00	14.00	182.00	W8	21.00	21.00	22.00		3.99	3.99		2.50	5.50	3.66	1070.58						
LL30-123EB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LF30-123EB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LF30-126WB					1		13.00	14.00	182.00	W8	21.00	21.00	22.00		3.99	3.99		2.50	5.50	3.66	1070.58						
LG30-123WB					1		13.00	14.00	182.00	W8	21.00	21.00	22.00		3.99	3.99		2.50	5.50	3.66	1070.58						
LF30-118WB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LFG30-106WB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LF30-121WB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LC30-106WB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
ML30-106-5EB					1		15.00	8.50	127.50	W8	18.00	15.50	16.50		4.33	4.33		2.00	6.00	4.00	731.88	106	23.75				
ML30-83-3EB					1		13.00	9.00	117.00	W8	18.00	16.00	17.00		4.33	4.33		2.00	6.00	4.00	749.88	83	20.00				
ML30-83-4EB					1		13.00	9.50	123.50	W8	18.00	16.50	17.50		4.33	4.33		2.00	6.00	4.00	767.88	83	20.00				
ML30-91-1EB					1		14.50	5.00	72.50	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML30-97-1EB					1		15.00	5.00	75.00	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML30-91-2EB					1		13.00	9.00	117.00	W8	18.00	16.00	17.00		4.33	4.33		2.00	6.00	4.00	749.88	91	20.00				
ML30-91-3EB					1		13.00	10.00	130.00	W8	18.00	17.00	18.00		4.33	4.33		2.00	6.00	4.00	785.88	91	20.00				
ML30-98B-1EB					1		19.50	8.00	156.00	W10	22.00	15.00	16.00		7.00	7.00		3.00	10.00	6.67	990.00	98B		23.75			
ML30-98AB-1EB					1		14.50	13.00	188.50	W10	22.00	20.00	21.00		7.00	7.00		3.00	20.00	6.67	1210.00	98A-B			31.25		
ML30-97-3EB					1		10.00	7.00	70.00	W8	18.00	14.00	15.00		4.33	4.33		2.00	6.00	4.00	677.88	97	20.00				
ML30-99-3EB					1		12.00	8.00	96.00	W8	18.00	15.00	16.00		4.33	4.33		2.00	6.00	4.00	713.88						
ML30-99-2EB					1		10.50	7.00	73.50	W8	18.00	14.00	15.00		4.33	4.33		2.00	6.00	4.00	677.88						
ML30-97-5EB					1		9.50	7.00	66.50	W8	18.00	14.00	15.00		4.33	4.33		2.00	6.00	4.00	677.88	97	20.00				
ML30-99-1EB					1		12.50	11.00	137.50	W8	18.00	18.00	19.00		4.33	4.33		2.00	6.00	4.00	821.88	99	20.00				
ML30-99-5EB					1		12.00	12.00	144.00	W8	18.00	19.00	20.00		4.33	4.33		2.00	6.00	4.00	857.88	99	20.00				
SUBTOTALS(BOX 1 OF 2) :		**13**			**38**				**7004.50**												**38236.76**		**183.75**	**23.75**	**31.25**		

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

JUL 4 2022 9:33 AM
DocuSign

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	19	105
		SIGNING QUANTITIES				

MAIN LANES ROADSIDE MOUNTED SIGNING QUANTITIES (BOX 2 OF 2)

SIGN NO./ LOCATION	OMNI-DIRECTIONAL SIGN SUPPORT			I-BEAM STRUCTURE TYPE			GUIDE SIGN DEMOUNTABLE LEGEND			I-BEAM BREAKAWAY SIGN SUPPORT												EXIT NUMBER PANEL				SUPPLEMENTAL	
										STEEL SECT. A-572		SIGN POST LENGTH			STUB POST			FOOTINGS			SIGN POST AND STUB	LEGEND	TYPE			GUIDE SIGN DEMOUNTABLE	
							LENGTH	HEIGHT				H - 1	H - 2	H - 3	H - 1	H - 2	H - 3	DIA.	DEPTH	EMBED.			A	B	C	LEGEND	SQ. FT.
	G1	G2	G3	G1	G2	G3	LIN. FT.		SQ. FT.	BEAM	LBS	LIN FT			LIN FT			LIN FT			POUND		SQ. FT.				
ML30-99-2WB					1		14.50	5.00	72.50	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML30-99-3WB					1		12.50	5.00	62.50	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML30-106-1EB					1		14.00	5.50	77.00	W8	18.00	12.50	13.50		4.33	4.33		2.00	6.00	4.00	623.88						
ML30-106-2EB					1		18.00	5.50	99.00	W8	18.00	12.50	13.50		4.33	4.33		2.00	6.00	4.00	623.88	106	23.75				
ML30-128-1EB		1					6.50	2.00	13.00																		
ML30-99-1WB		1					8.50	2.00	17.00																		
ML30-98-1EB		1					5.50	2.50	13.75																		
ML30-97-3WB		1					5.50	2.50	13.75																		
ML30-99-4WB					1		12.50	11.00	137.50	W8	18.00	18.00	19.00		4.33	4.33		2.00	6.00	4.00	821.88	99	20.00				
ML30-99-7WB					1		12.00	12.00	144.00	W8	18.00	19.00	20.00		4.33	4.33		2.00	6.00	4.00	857.88	99	20.00				
ML30-98BA-1WB					1		14.50	13.00	188.50	W10	22.00	20.00	21.00		7.00	7.00		3.00	10.00	6.67	1210.00	98B-A			31.25		
ML30-99-5WB					1		12.00	8.00	96.00	W8	18.00	15.00	16.00		4.33	4.33		2.00	6.00	4.00	713.88						
ML30-97-1WB					1		10.00	7.00	70.00	W8	18.00	14.00	15.00		4.33	4.33		2.00	6.00	4.00	677.88	97	20.00				
ML30-91-1WB					1		14.00	5.00	70.00	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML30-97-4WB					1		9.50	7.50	71.25	W8	18.00	14.50	15.50		4.33	4.33		2.00	6.00	4.00	695.88	97	20.00				
ML30-TIC-1WB					1		9.00	7.00	63.00	W8	18.00	14.00	15.00		4.33	4.33		2.00	6.00	4.00	677.88	LEFT	8.00				
ML30-99-6WB					1		10.50	7.00	73.50	W8	18.00	15.00	15.00		4.33	4.33		2.00	6.00	4.00	695.88						
EXIT TIC-WB					1		8.00	6.50	52.00	W6	9.00	13.50	14.50		3.33	3.33		1.58	4.50	3.00	311.94						
ML30-91-2WB					1		13.00	9.00	117.00	W8	18.00	16.00	17.00		4.33	4.33		2.00	6.00	4.00	749.88	91	20.00				
ML30-91-3WB					1		18.00	8.50	153.00	W8	18.00	15.50	16.50		4.33	4.33		2.00	6.00	4.00	731.88	91	20.00				
ML30-83-2WB					1		13.00	9.00	117.00	W8	18.00	16.00	17.00		4.33	4.33		2.00	6.00	4.00	749.88	83	20.00				
ML30-83-3WB					1		13.00	9.50	123.50	W8	18.00	16.50	17.50		4.33	4.33		2.00	6.00	4.00	767.88	83	20.00				
ML30-78-1WB					1		14.50	5.00	72.50	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML30-123-2EB					1		9.50	7.00	66.50	W8	18.00	14.00	15.00		4.33	4.33		2.00	6.00	4.00	677.88						
ML30-124-1WB		1					6.00	2.00	12.00																		
ML30-121-2EB					1		9.50	8.00	76.00	W8	18.00	15.00	16.00		4.33	4.33		2.00	6.00	4.00	713.88	121	23.75				
ML30-123-3EB					1		11.50	11.50	132.25	W8	18.00	18.50	19.50		4.33	4.33		2.00	6.00	4.00	839.88	123	23.75				
ML30-126-3WB					1		12.50	11.00	137.50	W8	18.00	18.00	19.00		4.33	4.33		2.00	6.00	4.00	821.88	126	23.75				
ML30-106-1WB					1		14.00	5.00	70.00	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML30-83-1WB					1		13.50	5.00	67.50	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML30-123-1WB					1		9.50	7.00	66.50	W6	9.00	17.00	18.00		3.33	3.33		1.50	4.50	3.00	374.94						
ML30-111-1EB					1		15.00	5.00	75.00	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML30-106-2WB					1		18.00	6.00	108.00	W8	18.00	13.00	14.00		4.33	4.33		2.00	6.00	4.00	641.88	106	23.75				
ML30-106-4WB					1		15.00	8.50	127.50	W8	18.00	15.50	16.50		4.33	4.33		2.00	6.00	4.00	731.88	106	23.75				
ML30-106-3WB					1		10.00	5.00	50.00	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML30-97-4EB					1		16.00	10.00	160.00	W10	22.00	17.00	18.00		7.00	7.00		3.00	10.00	6.67	1078.00						
ML30-97-2WB					1		16.00	10.00	160.00	W10	22.00	17.00	18.00		7.00	7.00		3.00	10.00	6.67	1078.00						
ML30-124-2WB					1		11.00	5.00	55.00	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
SUBTOTALS(BOX 2 OF 2) :		**5**			**33**				**3281.00**												**23321.52**		**310.50**		**31.25**		
SUBTOTALS(BOX 1 OF 2) :		**13**			**38**				**7004.50**												**38236.76**		**183.75**	**23.75**	**31.25**		
TOTALS :		**18**			**71**				**10285.5**												**61558.28**		**494.25**	**23.75**	**62.5**		

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

10/2/2020 9:33 AM
DocuSign

DATE REVISED	DATE REVISED	F.(O.)NO. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	20	105
		SIGNING QUANTITIES				

STANDARD SIGNS (BOX 1 OF 2)

SIGN NO./ LOCATION	STANDARD SIGNS FLAT SHEET OMNI-DIRECTIONAL SIGN SUPPORTS TYPE G1 EA.	G2 EA.	G2-1 EA.	G2-2 EA.	G2-3 EA.	G2-4 EA.	G2-5 EA.	G2-6 EA.	G2-7 EA.	G2-8 EA.	G2-9 EA.	G2-10 EA.	STANDARD SIGN SQ. FT.
SS30-83.131EB	1												13.50
SS30-91.463EB	1												13.50
SS30-96.963EB	1												13.50
SS30-98.375EB	1												13.50
SS30-100.239EB	1												13.50
SS30-106.917EB	1												13.50
SS30-123.751EB	1												13.50
SS30-126.928EB	1												13.50
SS30-60.942WB	1												13.50
SS30-52.407WB	1												13.50
SS30-46.833WB	1												13.50
SS30-45.369WB	1												13.50
SS30-43.878WB	1												13.50
SS30-37.216WB	1												13.50
SS30-32.594WB	1												13.50
SS30-20.617WB	1												13.50
SS30-17.238WB	1												13.50
SS30-15.397WB	1												13.50
SS30-86.208EB	1												5.00
SS30-56.656WB	1												5.00
SS30-37.759WB	1												5.00
SS30-105.174EB	1												5.00
SS30-92.810EB		1											20.00
SS30-49.708WB		1											20.00
SS30-44.735WB		1											20.00
SS30-117.583EB		1											20.00
SS30-22.318WB		1											20.00
SS30-119.937EB		1											20.00
SS30-23.136WB		1											20.00
SS30-120.546EB		1											20.00
SS30-20.926WB		1											20.00
SS30-122.075EB		1											20.00
SS30-17.285WB		1											20.00
SS30-16.633WB		1											20.00
SS30-126.231EB		1											20.00
SS30-127.199EB		1											20.00
SS30-15.360WB		1											20.00
SS30-117.656EB		1											20.00
SS30-119.838EB		1											20.00
SS30-20.807WB		1											20.00
SS30-122.106EB		1											20.00
SS30-17.331WB		1											20.00
SS30-127.117EB		1											20.00
SS30-15.594WB		1											20.00
SS30-127.909EB		1											20.00
SS30-93.092EB		1											12.00
SS30-93.137EB		1											12.00
SS30-93.182EB		1											12.00
SS30-93.227EB		1											12.00
SS30-93.272EB		1											12.00
SS30-93.317EB		1											12.00
SS30-62.178WB			1										16.00
SS30-83.922EB			1										16.00
SS30-58.683WB			1										16.00
SS30-84.912EB			1										16.00
SS30-57.701WB			1										16.00
SS30-89.473EB			1										16.00
SS30-53.121WB			1										16.00
SS30-91.558EB			1										16.00
SS30-50.937WB			1										16.00
SS30-93.344EB			1										16.00
SS30-49.324WB			1										16.00
SS30-96.893EB			1										16.00
SS30-45.641EB			1										16.00
SUBTOTALS (BOX 1 OF 2):	**22**	**29**	**13**										**1003.00**

STANDARDS SIGNS (BOX 2 OF 2)

SIGN NO./ LOCATION	STANDARD SIGNS FLAT SHEET OMNI-DIRECTIONAL SIGN SUPPORTS TYPE G1 EA.	G2 EA.	G2-1 EA.	G2-2 EA.	G2-3 EA.	G2-4 EA.	G2-5 EA.	G2-6 EA.	G2-7 EA.	G2-8 EA.	G2-9 EA.	G2-10 EA.	STANDARD SIGN SQ. FT.
SS30-103.523EB			1										16.00
SS30-39.099WB			1										16.00
SS30-104.416EB			1										16.00
SS30-38.265WB			1										16.00
SS30-105.121EB			1										16.00
SS30-37.483WB			1										16.00
SS30-121.148EB			1										16.00
SS30-21.492WB			1										16.00
SS30-127.325EB			1										16.00
SS30-15.309WB			1										16.00
SS30-14.819WB			1										16.00
SS30-60.568WB			1										16.00
SS30-82.781EB			1										16.00
SS30-52.056WB			1										16.00
SS30-91.182EB			1										16.00
SS30-46.430WB			1										16.00
SS30-96.806EB			1										16.00
SS30-45.142WB			1										16.00
SS30-98.115EB			1										16.00
SS30-43.543WB			1										16.00
SS30-99.830EB			1										16.00
SS30-36.830WB			1										16.00
SS30-106.571EB			1										16.00
SS30-116.950EB			1										16.00
SS30-119.446EB			1										16.00
SS30-22.572WB			1										16.00
SS30-121.580EB			1										16.00
SS30-20.188WB			1										16.00
SS30-123.243EB			1										16.00
SS30-18.675WB			1										16.00
SS30-124.925EB			1										16.00
SS30-16.870WB			1										16.00
SS30-126.551EB			1										16.00
SS30-15.020WB			1										16.00
SS30-49.957WB			1										16.00
SS30-93.266EB			1										16.00
SS30-127.716EB			1										16.00
SS30-51.967WB				1									36.00
SS30-98.022EB				1									36.00
SS30-45.033WB				1									36.00
SUBTOTALS (BOX 2 OF 2):			**37**	**3**									**700.00**

TOTALS:	22.00	29.00	50.00	3.00									1703.00

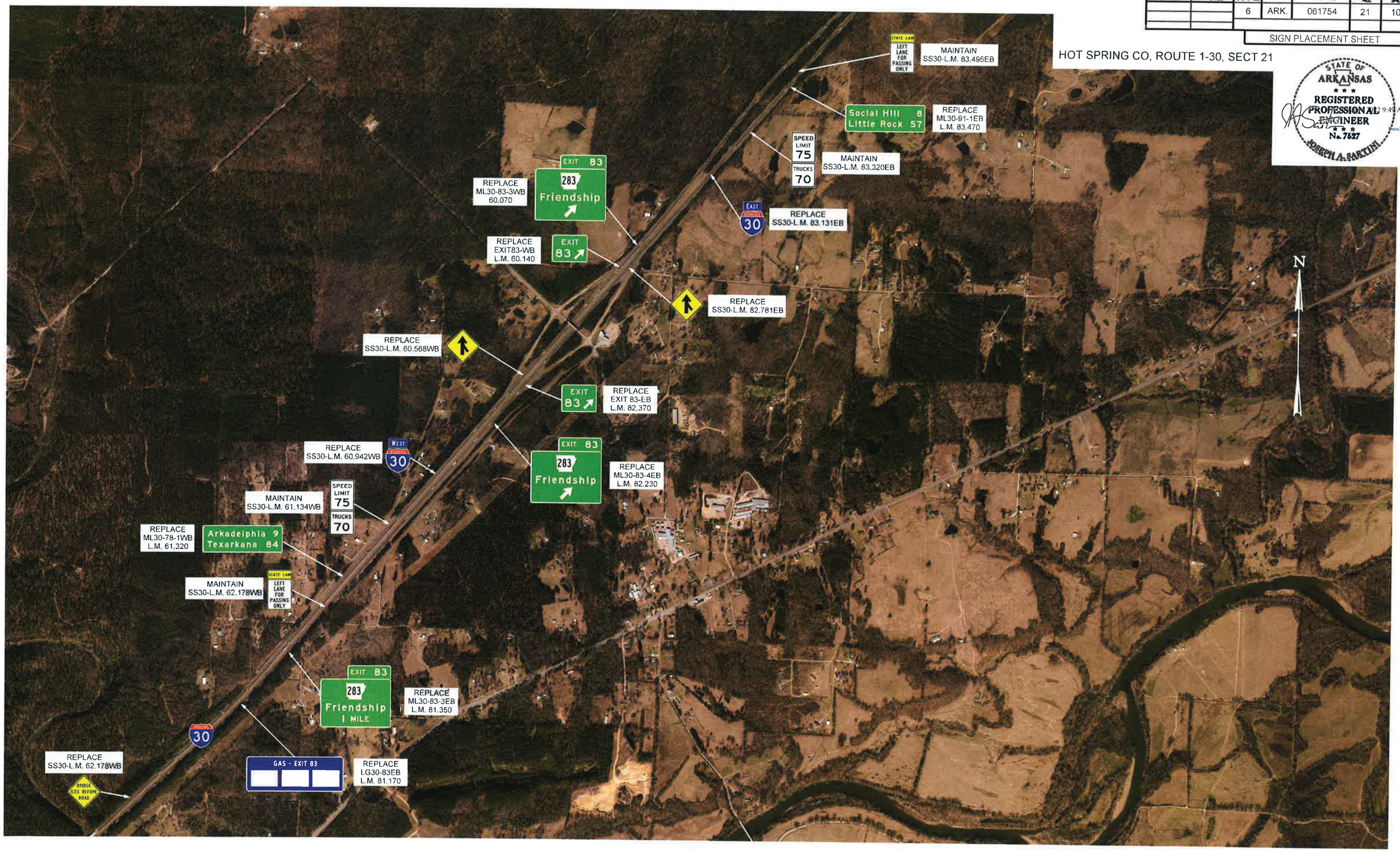
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
Nov 4 2022 9:34 AM
DocuSign

DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	21	105

SIGN PLACEMENT SHEET

HOT SPRING CO, ROUTE I-30, SECT 21

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7627
JOSEPH A. SARTINI
2/9/2022 9:49 AM



DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	22	105

SIGN PLACEMENT SHEET

HOT SPRING CO, ROUTE 1-30, SECT 21

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7627
JOSEPH A. SARTINI

DocuSigned by: 2022 9:50 AM



DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	23	105

SIGN PLACEMENT SHEET

HOT SPRING CO, ROUTE I-30, SECT 21

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7627
JOSEPH A. SARTIN
DocuSign
2022 9:50 AM

REPLACE ML30-91-2WB 51.000
EXIT 91 / 84 / Social Hill / 1 MILE
REPLACE SS30-L.M. 50.937WB
BRIDGE ICES BEFORE ROAD
LEFT / REST AREA / Tourist Info Center / ½ MILE
MAINTAIN ML30-TIC-2EB
Malvern 8 / Little Rock 48
REPLACE ML30-97-1EB 92.030
STATE LAW LEFT LANE FOR PASSING ONLY
MAINTAIN SS30-L.M. 91.830EB
REPLACE ML30-91-3WB L.M. 51.730
EXIT 91 / 84 / Social Hill
SPEED LIMIT 75 / TRUCKS 70
MAINTAIN SS30-L.M. 91.690EB
REPLACE SS30-L.M. 51.967WB
EXIT 20 MPH
BRIDGE ICES BEFORE ROAD
REPLACE SS30-L.M. 91.558EB
LEFT / REST AREA / Tourist Info Center / 1 MILE
MAINTAIN ML30-TIC-1EB
EAST 30
INSTALL SS30-L.M. 91.463
REPLACE EXIT91-WB 51.900
EXIT 91 / 20 MPH
REPLACE SS30-L.M. 91.182EB
REPLACE SS30-L.M. 52.056WB
EXIT 91
REPLACE EXIT91-EB 90.890
WEST 30
REPLACE SS30-L.M. 52.407WB
EXIT 91 / 84 / Social Hill
REPLACE ML30-91-3EB 90.790
SPEED LIMIT 75 / TRUCKS 70
MAINTAIN SS30-L.M. 52.597WB
STATE LAW LEFT LANE FOR PASSING ONLY
MAINTAIN SS30-L.M. 52.703WB
REPLACE ML30-83-1WB L.M. 52.830
Friendship 8 / Texarkana 93
REPLACE SS30-L.M. 53.121WB
BRIDGE ICES BEFORE ROAD
EXIT 91 / 84 / Social Hill / 1 MILE
REPLACE ML30-91-2EB L.M. 89.900
EXIT 91 / CAMPING - EXIT 91
REPLACE LXC30-91EB 89.540
BRIDGE ICES BEFORE ROAD
REPLACE SS30-L.M. 89.473EB
N

DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	24	105

SIGN PLACEMENT SHEET

HOT SPRING CO, ROUTE I-30, SECT 21

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7627
JOSEPH A. MARTIN

DocuSigned by: 2022 9:50 AM

N

REPLACE ML30-IC-1WB L.M. 48.630

LEFT REST AREA Tourist Info Center 1 MILE

LEFT REST AREA Tourist Info Center ½ MILE

MAINTAIN ML30-TIC-2WB

MAINTAIN ML30-TIC-3WB

LEFT REST AREA Tourist Info Center

REPLACE SS30-L.M. 49.324WB

BRIDGE ICES BEFORE ROAD

REPLACE SS30-L.M. 49.708WB

EXIT 35 MPH

REPLACE EXIT TIC-WB L.M. 49.730

REST AREA Tourist Info Center

BRIDGE ICES BEFORE ROAD

REPLACE SS30-L.M. 93.344EB

REPLACE SS30-L.M. 49.957WB

REPLACE SS30-L.M. 93.266EB

REPLACE SS30-L.M. 93.092-93.317EB 6 EA @ 238' APART

REST AREA Tourist Info Center

MAINTAIN EXIT TIC-EB

EXIT 25 MPH

REPLACE SS30-L.M. 92.810EB

LEFT REST AREA Tourist Info Center

MAINTAIN ML30-TIC-3EB

REPLACE LXC30-91WB 50.720

EXIT 91

CAMPING - EXIT 91

DATE REVISED	DATE FILMED	FED. HIS. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	25	105

SIGN PLACEMENT SHEET

HOT SPRING CO, ROUTE I-30, SECT 21

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
DocuSigned by: 9/9/2022 9:51 AM

REPLACE ML30-97-1WB L.M. 45.530
EXIT 97 84 171 1/2 MILE
MAINTAIN ML30-98A-2WB
EXIT 98A 270B EAST Malvern
REPLACE SS30-L.M. 45.033WB
EXIT 25 MPH
REPLACE SS30-L.M. 98.115EB
EXIT 98B 25 MPH
MAINTAIN EXIT98B-EB
EXIT 98B 270 WEST Hot Springs
REPLACE ML30-98B-1EB L.M. 98.060
MAINTAIN EXIT98A-WB
EXIT 98A 25 MPH
REPLACE SS30-L.M. 45.142WB
EXIT 98A
MAINTAIN EXIT98A-EB
EXIT 25 MPH
REPLACE SS30-L.M. 98.022EB
REPLACE ML30-97-2WB L.M. 45.680
Lake Catherine State Park EXIT 97
REPLACE SS30-L.M. 45.369WB
WEST 30
EXIT 35 MPH
REMOVE
MAINTAIN OH STRUCTURE OH-30-01
BRIDGE ICES BEFORE ROAD
REPLACE ML30-97-3WB L.M. 45.750
REPLACE SS30-L.M. 45.641WB
EXIT 97 84 171
Ouachita River
GAS - EXIT 98A
GAS - EXIT 98B
MAINTAIN LG30-98AEB
EXIT 98B 270 WEST Hot Springs 1/4 MILE
EXIT 98A 270B EAST Malvern
EXIT 35 MPH
INSTALL SS30-L.M. 97.740EB
REPLACE ML30-97-4WB L.M. 45.920
REPLACE OH30-98B-1EB OH30-98A-1EB L.M. 97.740
REPLACE EXIT97-WB L.M. 46.000
EXIT 97
Ouachita River
REPLACE ML30-98-1EB L.M. 97.050
FOOD - EXIT 98 A
REPLACE LF30-98AEB L.M. 97.460
STATE LAW LEFT LANE FOR PASSING ONLY
MAINTAIN SS30-L.M. 97.183EB
LODGING - EXIT 98 A
LODGING - EXIT 98 B
REPLACE LL30-98ABEB L.M. 97.270
REPLACE SS30-L.M. 46.430WB
EAST 30
INSTALL SS30-L.M. 96.963EB
REPLACE SS30-L.M. 96.806EB
INSTALL SS30-L.M. 46.833WB
WEST 30
ASU-Three Rivers EXIT 98A
EXITS 98 A-B WEST 270 EAST 270B Malvern Hot Springs 3/4 MILE
BRIDGE ICES BEFORE ROAD
REPLACE SS30-L.M. 96.893EB
REPLACE ML30-98AB-1EB L.M. 96.990
SPEED LIMIT 75 TRUCKS 70
MAINTAIN ML30-98A-1EB
MAINTAIN SS30-L.M. 46.985WB
EXIT 97
REPLACE EXIT97-EB L.M. 94.460
STATE LAW LEFT LANE FOR PASSING ONLY
MAINTAIN SS30-L.M. 47.084WB
EXIT 97 84 171
REPLACE ML30-97-5EB L.M. 96.310
ATTRACTION - EXIT 98 B
REPLACE LA30-98BEB L.M. 96.760
REPLACE ML30-91-1WB L.M. 47.160
Social Hill 5 Texarkana 99
Lake Catherine State Park EXIT 97
REPLACE ML30-97-4EB L.M. 95.950
N
EXIT 97 84 171 1 MILE
REPLACE ML30-97-3EB L.M. 95.410
Malvern NEXT 3 EXITS
MAINTAIN ML30-97-2EB

DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	26	105

SIGN PLACEMENT SHEET

HOT SPRING CO, ROUTE I-30, SECT 21

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. BARTINI

DocuSigned by: ... 10/4/2022 9:51 AM PDT

N

REPLACE LA30-98BWB L.M. 43.060

ATTRACTION - EXIT 98 B

REPLACE LL30-98BAWB L.M. 43.180

LODGING - EXIT 98 B

LODGING - EXIT 98 A

REPLACE LF30-98AWB L.M. 43.340

FOOD - EXIT 98 A

MAINTAIN LG30-98ABWB

GAS - EXIT 98A

GAS - EXIT 98B

MAINTAIN OH STRUCTURE OH-30-30-03

EXIT 98A
270B EAST
Malvern
1/4 MILE

EXIT 98B
270 WEST
Hot Springs

REPLACE OH30-98A-1WB OH30-98B-1WB L.M. 44.700

REPLACE EXIT98B-WB L.M. 44.820

EXIT 98 B
15 MPH

REPLACE SS30-L.M. 44.735

RAMP 15 MPH

REPLACE ML30-98BA-1WB L.M. 43.950

EXITS 98 B-A
EAST 270B
WEST 270
Hot Springs
Malvern
1 MILE

MAINTAIN ML30-98A-1WB

ASU-
Three Rivers
EXIT 98A

REPLACE ML30-99-5WB L.M. 42.160

HOSPITAL
EXIT 99
Baptist Health Med Ctr
Hot Spring County

REPLACE ML30-99-6WB L.M. 42.330

Rockport
Pine Bluff
EXIT 99

REPLACE ML30-99-7WB L.M. 42.900

EXIT 99
270 EAST
Malvern
Sheridan

REMOVE SS30-L.M. 42.930WB

REPLACE EXIT99-WB L.M. 42.930

H
EXIT 99

INSTALL SS30-L.M. 43.543WB

INSTALL SS30-L.M. 43.878WB

WEST 30

70 JCT 10
Little Rock 41

REPLACE ML30-106-1EB L.M. 100.440

STATE LAW
LEFT LANE FOR PASSING ONLY

MAINTAIN SS30-L.M. 100.372EB

SPEED LIMIT 75
TRUCKS 70

MAINTAIN SS30-L.M. 100.279EB

EAST 30

REPLACE SS30-L.M. 100.239EB

INSTALL SS30-L.M. 99.830EB

REMOVE SS30-L.M. 99.338EB

H
EXIT 99

REPLACE EXIT99-EB L.M. 99.350

EXIT 99
270 EAST
Malvern
Sheridan

REPLACE ML30-99-5EB L.M. 99.270

Rockport
EXIT 99

REMOVE ML30-99-4EB

HOSPITAL
EXIT 99
Baptist Health Med Ctr
Hot Spring County

REPLACE ML30-99-3EB L.M. 98.690

STATE LAW
LEFT LANE FOR PASSING ONLY

MAINTAIN SS30-L.M. 98.553EB

Rockport
Pine Bluff
EXIT 99

REPLACE ML30-99-2EB L.M. 98.520

SPEED LIMIT 75
TRUCKS 70

MAINTAIN SS30-L.M. 98.402EB

EAST 30

REPLACE SS30-L.M. 98.375EB

REPLACE SS30-L.M. 98.115EB

EXIT 99
270 EAST
Malvern
Sheridan
1 MILE

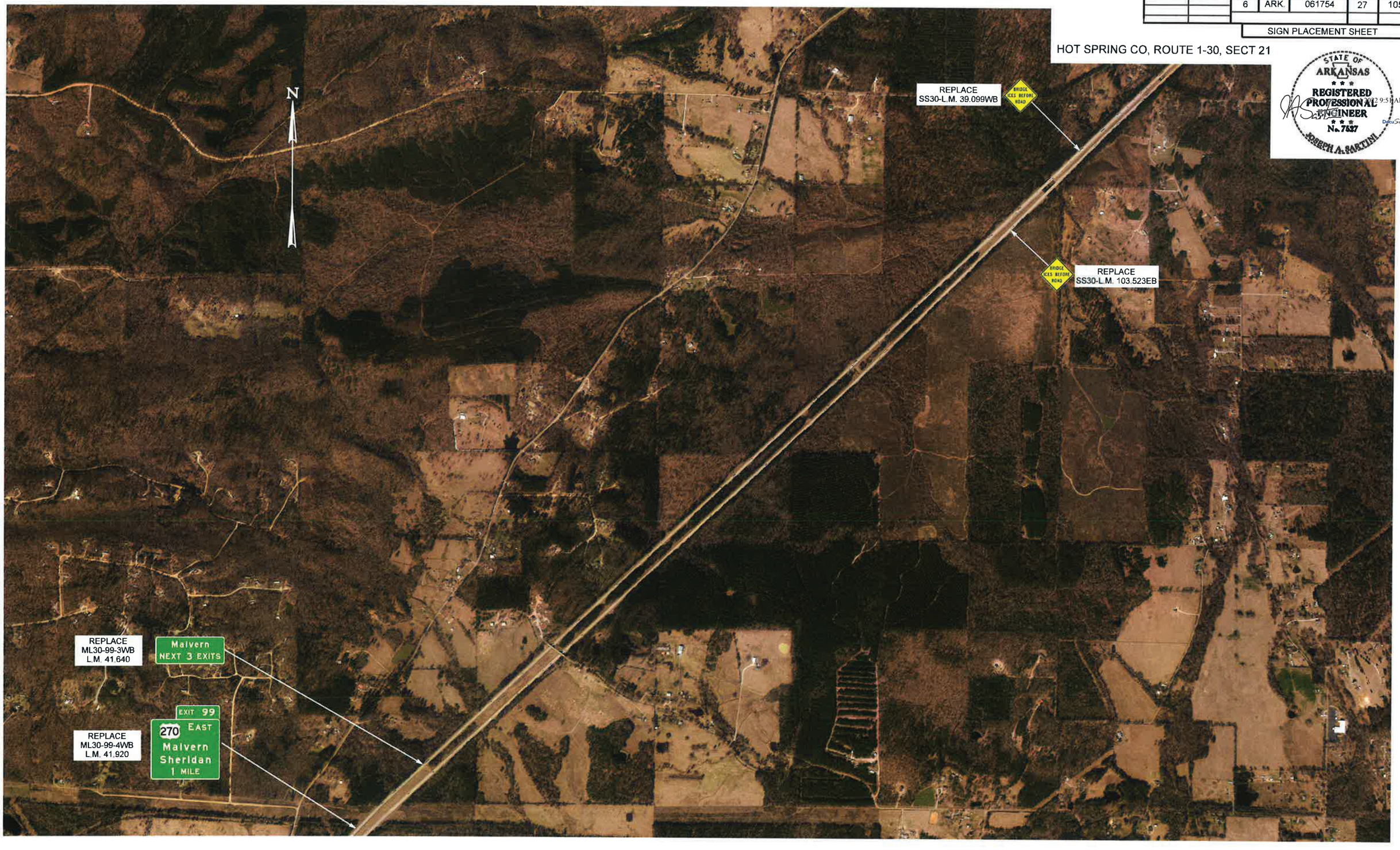
REPLACE ML30-99-1EB L.M. 98.340

DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	27	105

SIGN PLACEMENT SHEET

HOT SPRING CO, ROUTE 1-30, SECT 21

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7537
JOSEPH A. SARTINI
12 9:51AM
DocuSign



DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	28	105

SIGN PLACEMENT SHEET

HOT SPRING / SALINE CO,
ROUTE I-30, SECT 21 & 22

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7627
JOSEPH A. SARTINI

REPLACE ML30-106-4WB L.M. 36.320
REPLACE EXIT106-WB L.M. 36.400
INSTALL SS30-L.M. 36.830WB
REPLACE SS30-L.M. 37.216WB
MAINTAIN SS30-L.M. 37.416WB
REPLACE SS30-L.M. 37.483WB
REPLACE M30-99-1WB L.M. 37.520
MAINTAIN SS30-L.M. 37.587WB
REPLACE ML30-99-2WB L.M. 37.720
REPLACE SS30-L.M. 37.759 WB & EB 2 EACH
REPLACE SS30-L.M. 38.265WB
REPLACE SS30-L.M. 104.416EB
REPLACE SS30-L.M. 105.121EB
REPLACE ML30-106-2EB L.M. 105.040
MAINTAIN LFG30-106EB
MAINTAIN LC30-106EB
MAINTAIN ML30-106-4EB
MAINTAIN ML30-106-3EB
INSTALL SS30-L.M. 106.571EB
REPLACE EXIT106-EB L.M. 106.020
REPLACE ML30-106-5EB L.M. 105.930
MAINTAIN SS30-L.M. 107.206EB
MAINTAIN SS30-L.M. 107.106EB
REPLACE SS30-L.M. 106.917EB

EXIT 106 Old Military Road
EXIT 106
WEST I-30
SPEED LIMIT 75
TRUCKS 70
Hot Spring Co
BRIDGE ICES BEFORE ROAD
STATE LAW LEFT LANE FOR PASSING ONLY
Malvern 11 Texarkana 107
Saline Co
Glen Rose EXIT 106
AUTHORIZED VEHICLES ONLY
EXIT 106 Old Military Rd 1 MILE
FOOD - EXIT 106
GAS - EXIT 106
CAMPING - EXIT 106
EAST I-30

DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	29	105

SIGN PLACEMENT SHEET

SALINE CO, ROUTE 1-30, SECT 22

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

DocuSigned by: 12/6/2022 9:52 AM

REPLACE
ML30-106-1WB
L.M. 33.120

Malvern 16
Texarkana 112

REPLACE
SS30-L.M. 32.354W& EB
2 EACH

AUTHORIZED VEHICLES ONLY

EXIT 111
70 WEST
Hot Springs
1 MILE

MAINTAIN
ML30-111-2EB

CAMPING - EXIT 111

MAINTAIN
LC30-111EB

ATTRACTION - EXIT 111

MAINTAIN
LA30-111EB

N

INTERSTATE
30

CAMPING - EXIT 106

REPLACE
LC30-106WB
L.M. 34.940

FOOD - EXIT 106
GAS - EXIT 106

REPLACE
LFG30-106WB
L.M. 35.100

EXIT 106
Old Military Rd
1 MILE

REPLACE
ML30-106-2WB
L.M. 35.390

REPLACE
ML30-106-3WB
L.M. 35.690

Glen Rose
EXIT 106

Benton 11
Little Rock 34

REPLACE
ML30-111-1EB
L.M. 107.310

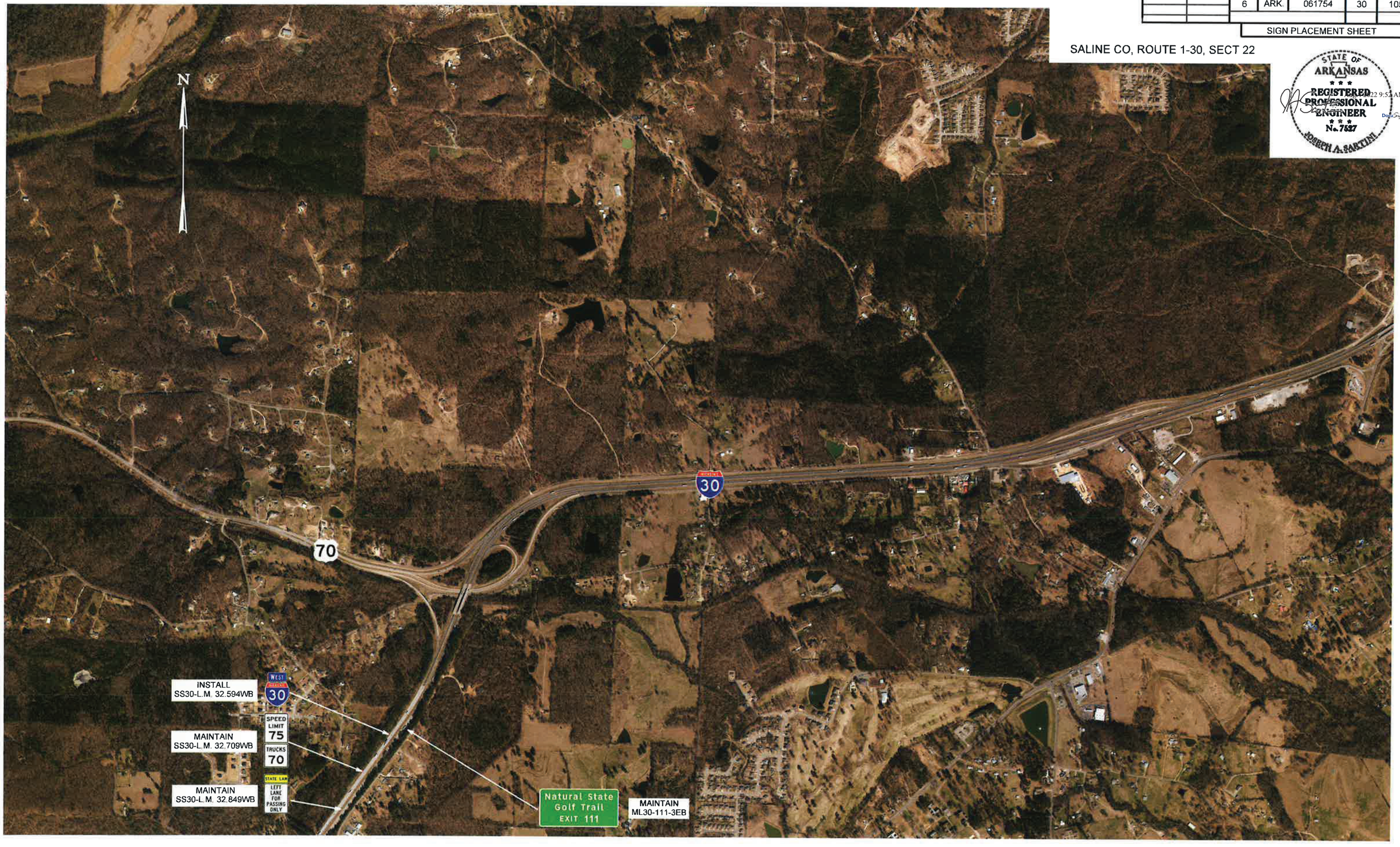
DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	30	105

SIGN PLACEMENT SHEET

SALINE CO, ROUTE 1-30, SECT 22

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7627
JOSEPH A. SARTINI

DocuSigned by: 10/6/2022 9:52 AM



DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	31	105

SIGN PLACEMENT SHEET

SALINE CO, ROUTE I-30, SECT 22

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
7/29/2022 9:52 AM
DocuSign

N

WITHIN THE SCOPE OF JOB #061708
WESTBOUND ONLY

REMOVE ML30-118-3WB REPLACE WITH OC-30-118-1WB ON NEW OC-30-62-32 L.M. 23.830

EXIT 118 Congo Road

EXIT 45 MPH

INSTALL SS30-L.M. 23.830WB

REPLACE SS30-L.M. 119.446EB

EXIT 121 Alcoa Road ½ MILE

REPLACE ML30-121-2EB L.M. 119.810

MAINTAIN EXIT118-WB

EXIT 118

EXIT 45 MPH REMOVE

EXIT 121 Alcoa Road 1 MILE

REMOVE ML30-121-1EB

EXIT 121 Alcoa Road 1 MILE

INSTALL BM30-121-1EB ON NEW BM-30-62-35 L.M. 119.360

FOOD - EXIT 121

MAINTAIN LF30-121EB

GAS - EXIT 121

LODGING - EXIT 121

REPLACE LGL30-121EB L.M. 118.970

SPEED LIMIT 70

REPLACE SS30-L.M. 117.656EB

TRUCKS USE RIGHT 2 LANES

REPLACE SS30-L.M. 117.583EB

EXIT 118

REPLACE EXIT118-EB L.M. 117.590

EXIT 45 MPH REMOVE

EXIT 118 Congo Road

EXIT 45 MPH

REMOVE ML30-118-2EB REPLACE WITH OC-30-118-1EB ON NEW OC-30-62-27 L.M. 117.410

GAS - EXIT 118

MAINTAIN LG30-118EB

REPLACE SS30-L.M. 116.950EB

FOOD - EXIT 118

REPLACE LF30-118EB L.M. 117.270

EXIT 118 Congo Road ¾ MILE

REMOVE ML30-118-1EB

LODGING - EXIT 118

REPLACE LL30-118EB L.M. 117.00

EXIT 118 Congo Road ¾ MILE

INSTALL BM30-118-1EB ON NEW BM-30-62-34 L.M. 116.63

L.M. 116.24

DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	32	105

SIGN PLACEMENT SHEET

SALINE CO, ROUTE I-30, SECT 22

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7627
JOSEPH A. SARTINI
2022 9:53 AM
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N

REMOVE ML30-121-4WB REPLACE WITH OC-30-121-1WB ON NEW OC-30-62-31 L.M. 21.750

EXIT 121 Alcoa Road

EXIT 45 M.P.H.

INSTALL SS30-L.M. 21.750WB

INSTALL BM30-121-1WB ON NEW BM-30-62-38 L.M. 21.300

EXIT 121 Alcoa Road ½ MILE

REMOVE ML30-121-3WB

EXIT 121 Alcoa Road ½ MILE

MAINTAIN ML30-121-2WB

Benton NEXT 5 EXITS

REMOVE ML30-121-1WB REPLACE WITH OC-30-121-2WB ON NEW OC-30-62-42 L.M. 20.85

EXIT 121 Alcoa Road 1 MILE

MAINTAIN LGL30-121WB

GAS - EXIT 121

LODGING - EXIT 121

REPLACE LF30-121WB L.M. 20.560

FOOD - EXIT 121

REPLACE SS30-L.M. 20.188WB

REPLACE SS30-L.M. 20.926WB

REPLACE SS30-L.M. 20.807WB

REPLACE SS30-L.M. 20.617WB

TRUCKS USE RIGHT 2 LANES

SPEED LIMIT 70

WEST I-30

EXIT 123

MAINTAIN EXIT123-EB

EXIT 45 M.P.H.

REMOVE

SPEED LIMIT 70

REPLACE SS30-L.M. 122.106EB

REPLACE SS30-L.M. 122.075EB

EXIT 123 183 Reynolds Road ½ MILE

REPLACE ML30-123-3EB L.M. 122.080

INSTALL BM30-118-1WB ON NEW BM-30-62-39 L.M. 22.360

EXIT 118 Congo Road 1½ MILE

REPLACE EXIT 121-WB L.M. 21.850

EXIT 121

REPLACE SS30-L.M. 21.492WB

BRIDGE ICES BEFORE ROAD

EXIT 45 M.P.H.

REMOVE

REPLACE SS30-L.M. 121.580EB

BRIDGE ICES BEFORE ROAD

REPLACE SS30-L.M. 121.148EB

MAINTAIN LGL30-118WB

GAS - EXIT 118

REPLACE LF30-118WB L.M. 23.050

FOOD - EXIT 118

MAINTAIN LL30-118WB

LODGING - EXIT 118

REPLACE SS30-L.M. 22.318WB&EB 2 EACH

TRUCKS USE RIGHT 2 LANES

REMOVE ML30-118-2WB

EXIT 118 Congo Road ½ MILE

REMOVE ML30-118-1WB

EXIT 118 Congo Road 1 MILE

REPLACE SS30-L.M. 22.572WB

INSTALL BM30-118-2WB ON NEW BM-30-62-40 L.M. 23.600

EXIT 118 Congo Road ¼ MILE

REPLACE SS30-L.M. 23.136WB

TRUCKS USE RIGHT 2 LANES

EXIT 121

MAINTAIN EXIT121-EB

EXIT 45 M.P.H.

REMOVE

GAS - EXIT 123

MAINTAIN LG30-123EB

Bryant Bauxite EXIT 123

REPLACE ML30-123-2EB L.M. 121.930

EXIT 123 183 Reynolds Road 1 MILE

INSTALL BM30-123-1EB ON NEW BM-30-62-36 L.M. 121.590

FOOD - EXIT 123

REPLACE LF30-123EB L.M. 121.030

TRUCKS USE RIGHT 2 LANES

REPLACE SS30-L.M. 119.937EB

EXIT 121 Alcoa Road

EXIT 45 M.P.H.

REMOVE ML30-121-3EB REPLACE WITH OC-30-121-1EB ON NEW OC-30-62-28 L.M. 120.170

LODGING - EXIT 123

REPLACE LL30-123EB L.M. 120.890

EXIT 123 183 Bryant Bauxite 1 MILE

REMOVE ML30-123-1EB

SPEED LIMIT 70

REPLACE SS30-L.M. 119.838EB

DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	33	105

SIGN PLACEMENT SHEET

SALINE CO, ROUTE I-30, SECT 22

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7627
JOSEPH A. SARTINI
Date: 2021.08.25 10:53:53 -05'00'

INSTALL BM30-123-1WB ON NEW BM-30-62-37 L.M. 18.600

EXIT 123 183 Reynolds Road 3/4 MILE

MAINTAIN LF30-123WB

FOOD - EXIT 123

MAINTAIN LL30-123WB

LODGING - EXIT 123

REPLACE ML30-124-2WB L.M. 17.410

STATE LAW MOVE OVER SAFELY OR SLOW DOWN FOR STOPPED VEHICLES WITH FLASHING LIGHTS

REPLACE SS30-L.M. 17.331WB

SPEED LIMIT 70

REPLACE SS30-L.M. 17.285WB

TRUCKS USE RIGHT 2 LANES

REPLACE SS30-L.M. 17.238WB

WEST I-30

Pulaski Co

REPLACE ML30-128-1EB L.M. 126.270

MAINTAIN EXIT124-WB

EXIT 124

EXIT 126

MAINTAIN EXIT126-EB

EXIT 126 111 Alexander Road

EXIT 45 MPH

REPLACE SS30-L.M. 125.920EB

REPLACE LG30-123WB L.M. 19.060

GAS - EXIT 123

REPLACE ML30-123-1WB L.M.18.530

Bryant Bauxite EXIT 123

UA - Pulaski Technical College South Campus EXIT 126

MAINTAIN ML30-126-1EB

MAINTAIN OC30-126-1EB

REPLACE SS30-L.M. 18.675WB

REPLACE SS30-L.M. 124.925EB

REMOVE ML30-123-2WB REPLACE WITH OC-30-123-1WB ON NEW OC-30-62-30 L.M. 19.210

EXIT 123 183 Reynolds Road

EXIT 45 MPH

INSTALL SS30-L.M. 19.210WB

EXIT 126 111 Alexander Road 3/4 MILE

INSTALL OC-30-126-2EB ON NEW OC-30-62-29 L.M. 125.310

REMOVE

EXIT 45 MPH

EXIT 124

MAINTAIN EXIT124-EB

FOOD - EXIT 126

GAS - EXIT 126

TRUCKS USE RIGHT 2 LANES

REPLACE SS30-L.M. 122.075EB

MAINTAIN EXIT 123-WB

EXIT 123

EXIT 30

MAINTAIN OH STRUCTURE OH-30-62-09

MAINTAIN LF30-126EB

MAINTAIN LG30-126EB

REPLACE SS30-L.M. 123.751EB

EXIT 126 111 Alexander Road 1 3/4 MILE

EXIT 124 Bryant Pkwy

EXIT 45 MPH

REPLACE SS30-L.M. 123.243EB

REPLACE SS30-L.M. 124.04EB

URGENT MESSAGE WHEN FLASHING TRAVELER INFO TUNE RADIO TO 1680 AM

MAINTAIN ML30-124-1EB

MAINTAIN OH30-126-1EB L.M. 124.04

MAINTAIN OH-30-124-2EB

MAINTAIN OH STRUCTURE OH-30-62-08

EXIT 124 Bryant Pkwy 1 1/2 MILE

EXIT 123 183 Reynolds Road

EXIT 45 MPH

MAINTAIN OH30-124-1EB L.M. 122.49

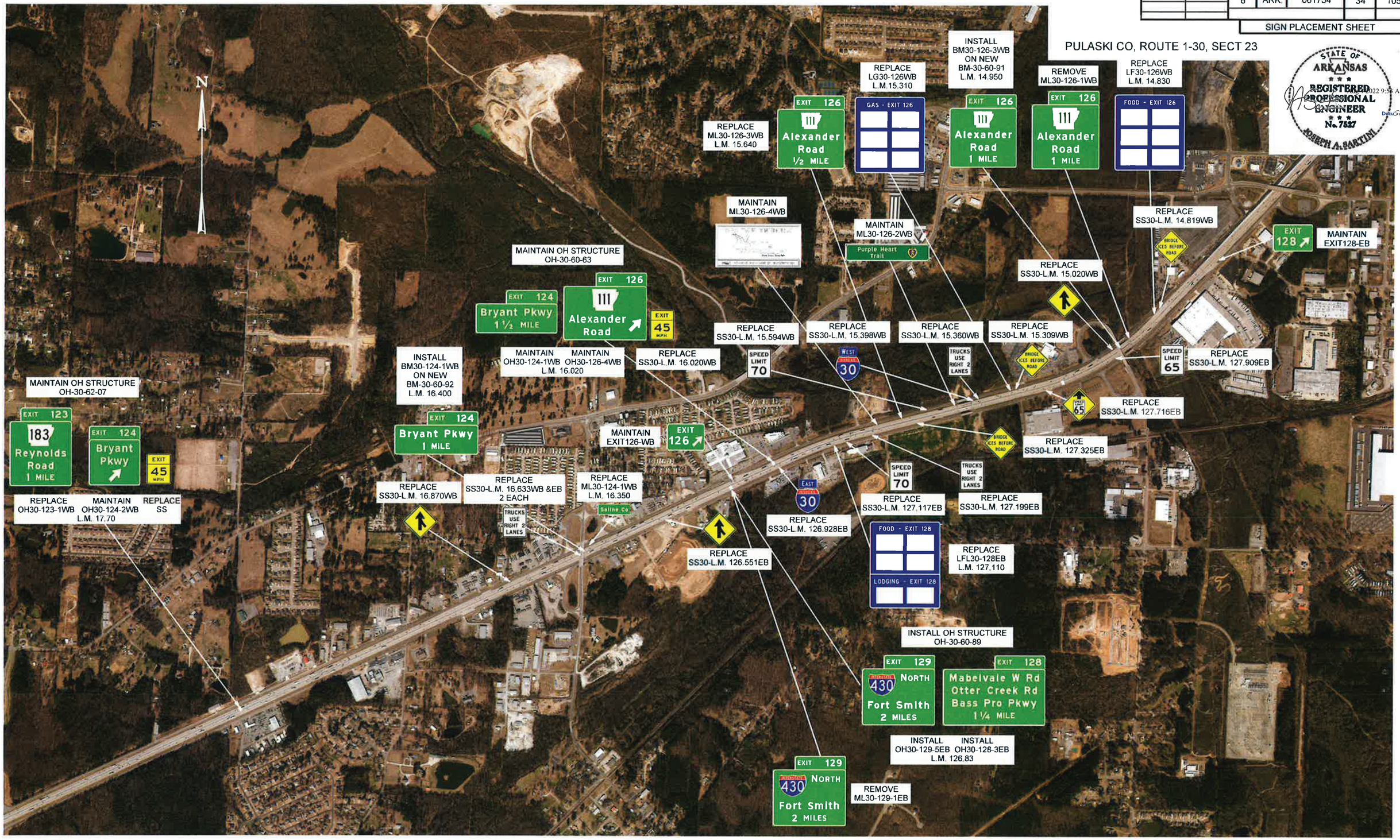
REPLACE OH30-123-1EB

DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	34	105

SIGN PLACEMENT SHEET

PULASKI CO, ROUTE I-30, SECT 23

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. BARTINI
8/18/2022 9:58 AM
DocuSign



DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	35	105

SIGN PLACEMENT SHEET

PULASKI CO, ROUTE 1-30, SECT 23

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7627
JOSEPH A. BARTINI

2022 9:54 AM

N

MAINTAIN OH STRUCTURE
OH-30-60-46

EXIT 129
INTERSTATE 430 NORTH
Fort Smith
½ MILE

EXIT 128
Mabelvale W Rd
Otter Creek Rd
Bass Pro Pkwy

EXIT 45 MPH

MAINTAIN OH30-129-2EB L.M. 128.24

MAINTAIN OH30-128-2EB

REPLACE SS30-L.M. 128.240

MAINTAIN OH STRUCTURE
OH-30-60-01

EXIT 129
INTERSTATE 430 NORTH
Fort Smith
1 MILE

EXIT 128
Mabelvale W Rd
Otter Creek Rd
Bass Pro Pkwy
½ MILE

MAINTAIN OH30-129-1EB L.M. 127.60

MAINTAIN OH30-128-1EB

GAS - EXIT 128

MAINTAIN LG30-128EB

EXIT 128
Mabelvale W Rd
Otter Creek Rd
Bass Pro Pkwy
1 MILE

MAINTAIN ML30-128-2EB

DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	36	105

SIGN PLACEMENT SHEET

PULASKI CO, ROUTE 1-30, SECT 23

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7627
JOSEPH A. SARTINI
DocuSigned by:
12/2/2022 9:54 AM



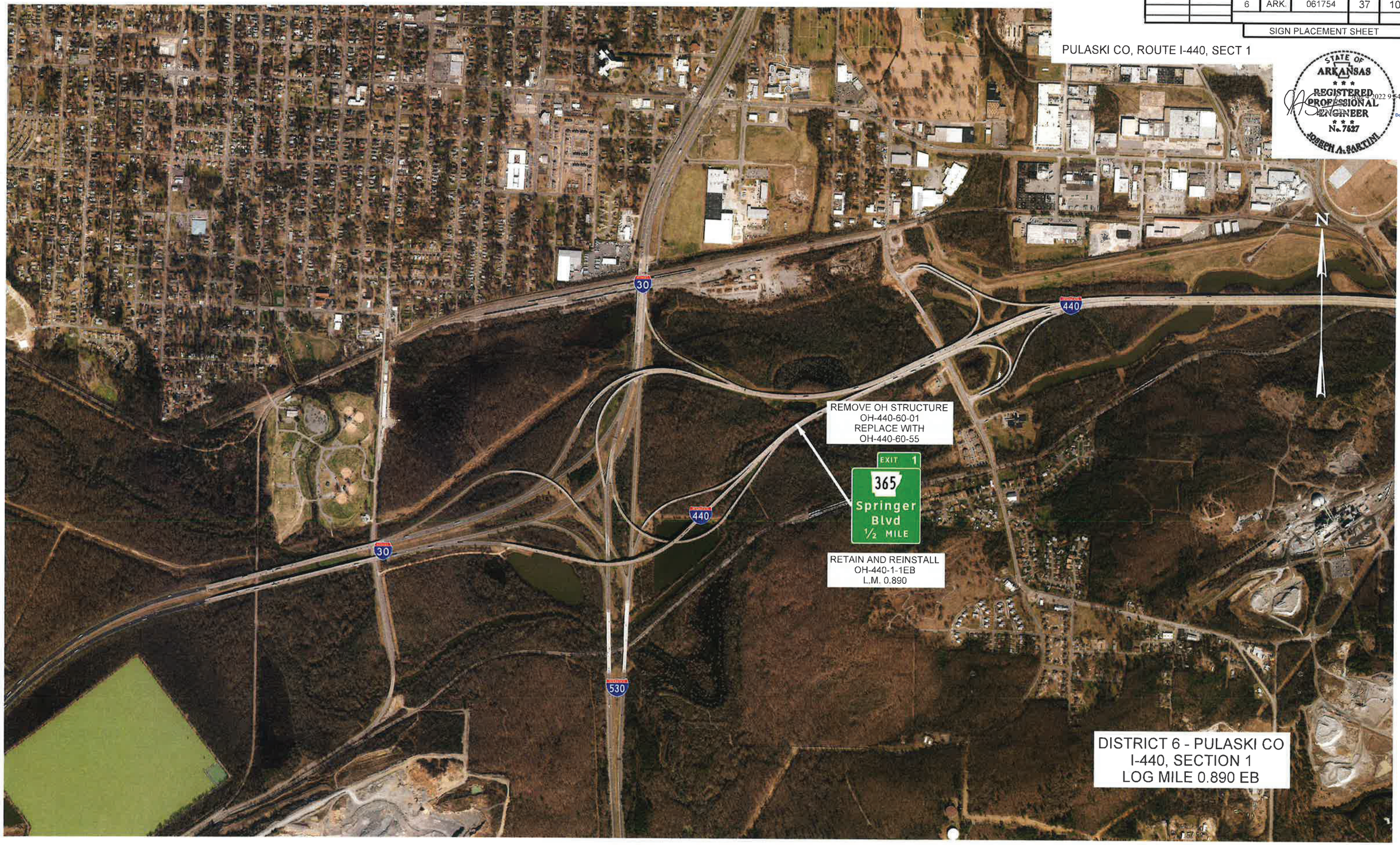
DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	37	105

SIGN PLACEMENT SHEET

PULASKI CO, ROUTE I-440, SECT 1

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

4/14/2022 9:54 AM



DATE REVISED	DATE FILMED	FED. NO. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	38	105

SIGN PLACEMENT SHEET

PULASKI CO, ROUTE I-630, SECT 21

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7627
JOSEPH A. BARTINI
DocuSign

N

MAINTAIN OH STRUCTURE
OH-630-60-12

EXIT 4
Fair Park Blvd
1 MILE

EXIT 3 B
UAMS Blvd
Pine St
Cedar St

MAINTAIN OH STRUCTURE
OH-630-60-11

EXIT 3 B
UAMS Blvd
Pine St
Cedar St
½ MILE

EXIT 3 A
Woodrow Street

MAINTAIN OH630-4-1WB
REPLACE OH630-3B-2WB
L.M. 3.380

REPLACE OH630-3B-1WB
MAINTAIN OH630-3A-1WB
L.M. 2.772

UAMS BLVD

INTERSTATE 630

CEDAR ST

PINE ST

MAINTAIN OH STRUCTURE
OH-630-60-60

EXIT 3 B
Cedar St
UAMS Blvd
Pine St
1 MILE

EXIT 4
Fair Park Blvd
EXIT ONLY

REPLACE OH630-3B-1EB
MAINTAIN OH630-4-2EB
L.M. 3.137

MAINTAIN OH STRUCTURE
OH-630-60-32

EXIT 3 A
Woodrow St
¾ MILE

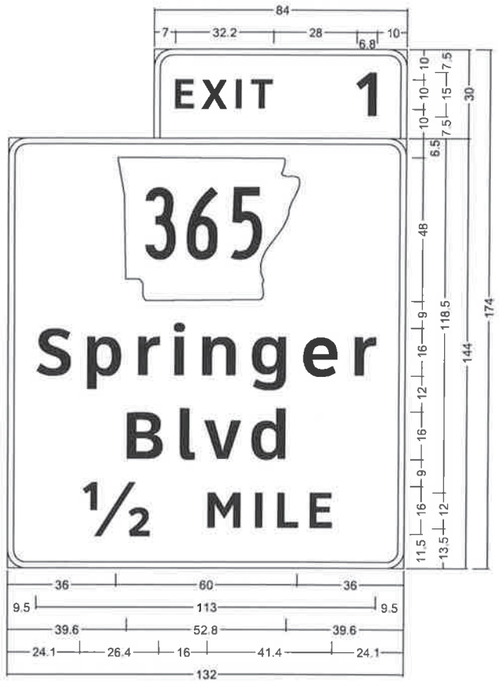
EXIT 3 B
Cedar St
UAMS Blvd
Pine St

MAINTAIN OH630-3A-1EB
REPLACE OH630-3B-2EB
L.M. 3.935

DISTRICT 6 - PULASKI CO
I-630, SECTION 21
LOG MILE 2.772-4.747

DATE REVISED	DATE REVISED	FED.AID. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	39	105
		SIGN LAYOUT SHEET				

OH-440-60-55
REPLACES OH-440-60-01



OH440-1-1EB;

6.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-5-W; "1", ClearviewHwy-5-W;

6.0" Radius, 2.0" Border, White on Green;
"Springer", ClearviewHwy-5-W; "Blvd", ClearviewHwy-5-W;
"½", ClearviewHwy-5-W; "MILE", ClearviewHwy-5-W;

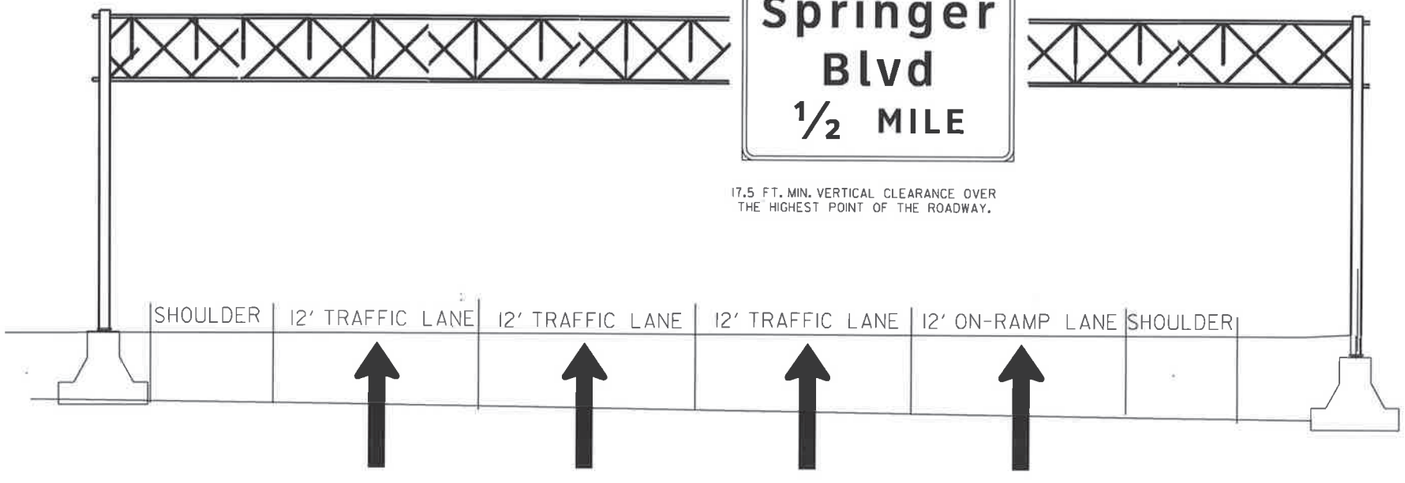
RETAIN AND REINSTALL
OH440-1-1EB

MAINTAIN -OH440-1-1EB



17.5 FT. MIN. VERTICAL CLEARANCE OVER
THE HIGHEST POINT OF THE ROADWAY.

REMOVE OH-440-60-01
REPLACE WITH OH-440-60-55
LM 0.89 EB



NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

THE CONTRACTOR SHALL FIELD VERIFY OVERHEAD PLACEMENT WITH RE AND MAKE ANY ADJUSTMENTS NECESSARY DUE TO OVERHEAD POWER LINES AND MEDIAN WALL BARRIER.

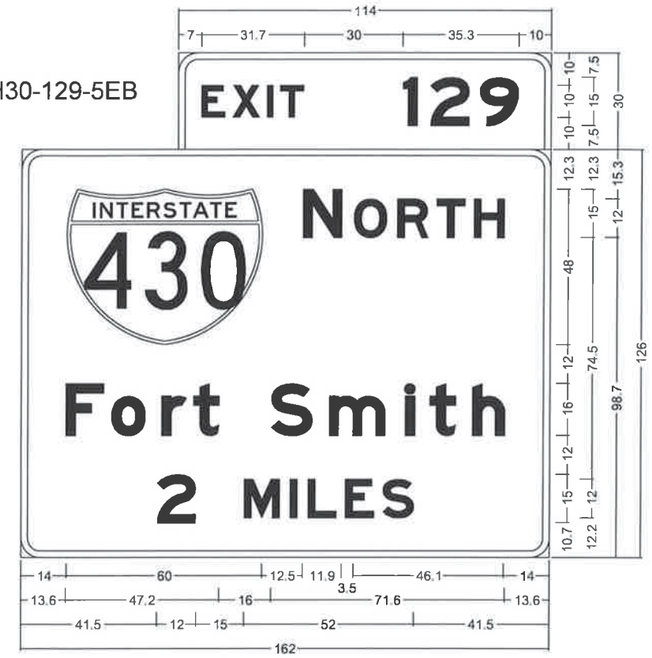
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

DocuSigned by: 9:38 AM

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED./RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	40	105
		SIGN LAYOUT SHEET				

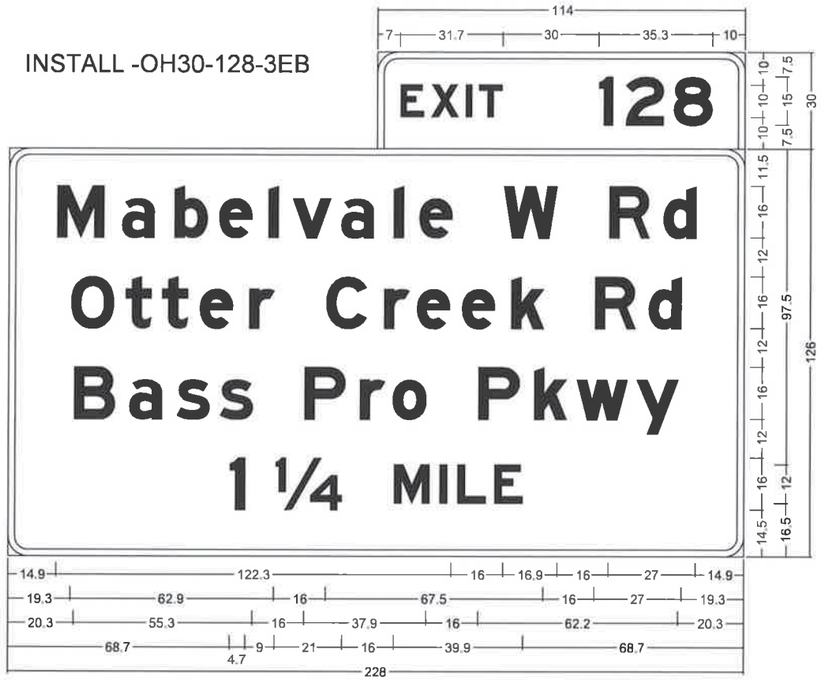
INSTALL -OH30-129-5EB



OH30-129-5EB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "129", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"N", E Mod; "ORTH", E Mod; "Fort Smith", E Mod; "2", E Mod;
"MILES", E Mod;

INSTALL -OH30-128-3EB

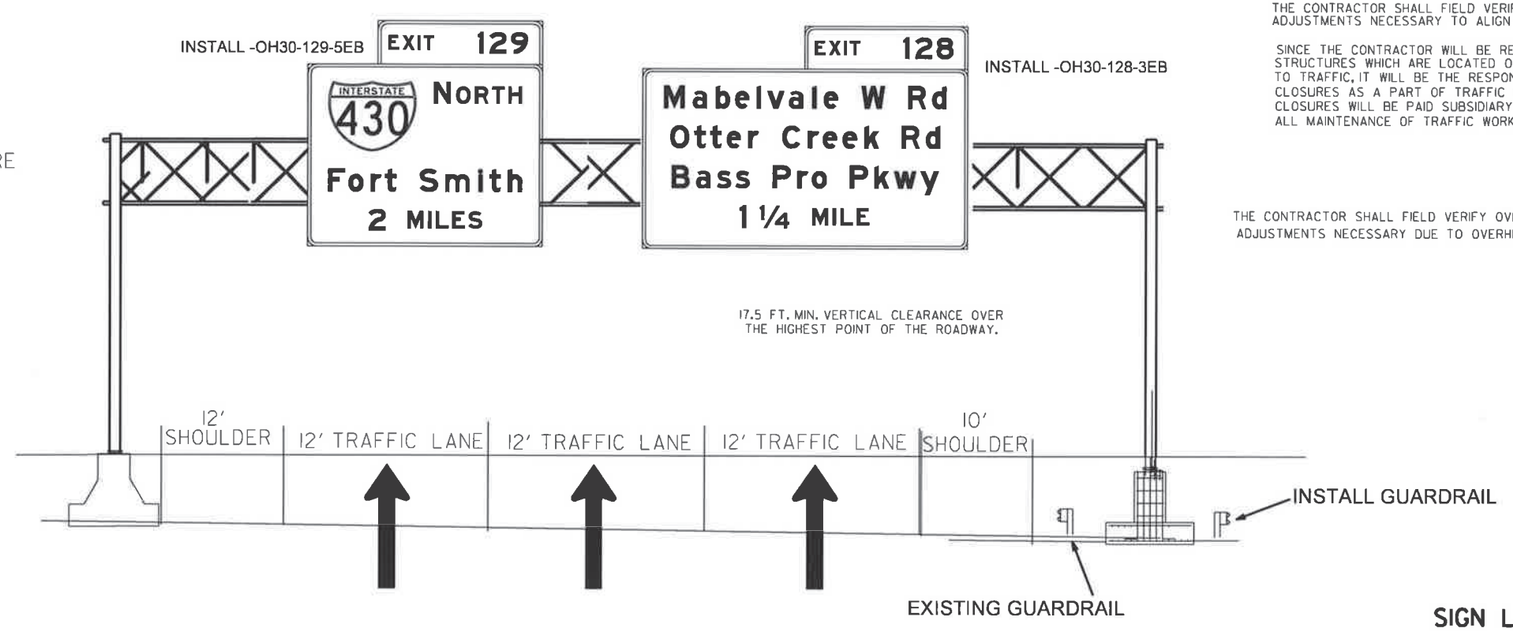


OH30-128-3EB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "128", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Mabelvale W Rd", E Mod; "Otter Creek Rd", E Mod; "Bass Pro Pkwy", E Mod; "1", E Mod; "1/4", E Mod;
"MILE", E Mod;

OH-30-60-89

OH-30-60-89
INSTALL OVERHEAD STRUCTURE
LM 126.83 EB



NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

THE CONTRACTOR SHALL FIELD VERIFY OVERHEAD PLACEMENT WITH RE AND MAKE ANY ADJUSTMENTS NECESSARY DUE TO OVERHEAD POWER LINES AND MEDIAN WALL BARRIER.

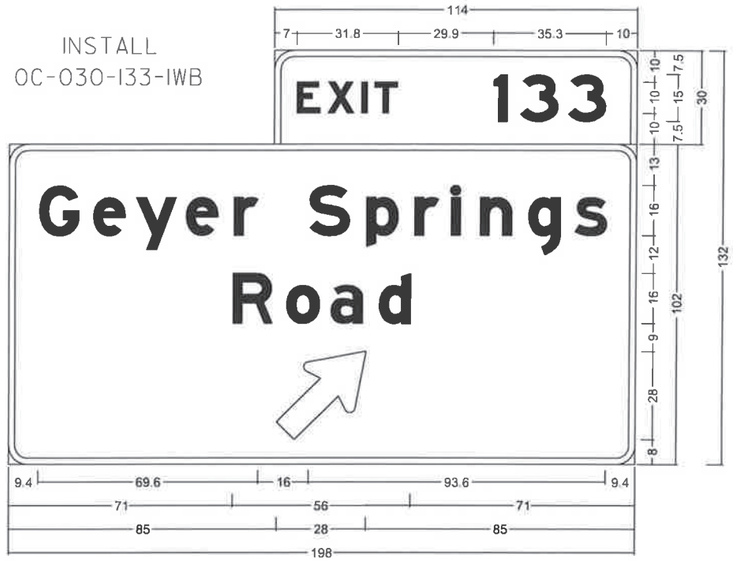
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
AUG 5 2022 9:38 AM
DocuSign

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.ROAD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	41	105
		SIGN LAYOUT SHEET				

OC-030-60-90

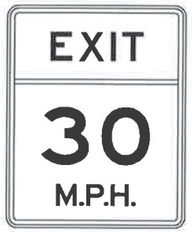
INSTALL
OC-030-133-1WB



OC30-133-1WB;

6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "133", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Geyer Springs", E Mod; "Road", E Mod; Arrow Custom - 35.8" 45°;

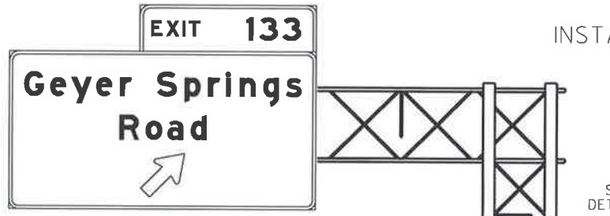


INSTALL
SS-W13-2
48"X60"

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

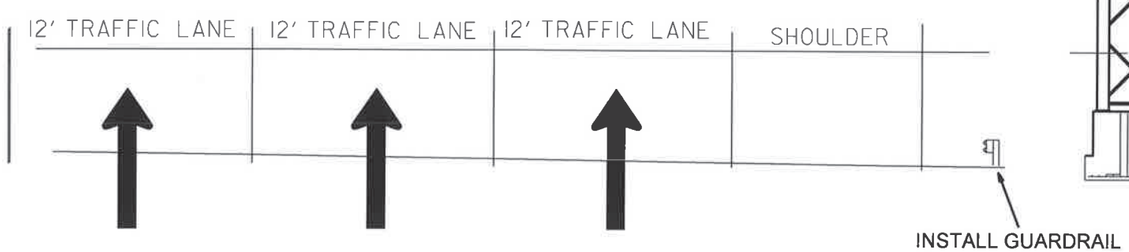
THE CONTRACTOR SHALL FIELD VERIFY OVERHEAD PLACEMENT WITH RE AND MAKE ANY ADJUSTMENTS NECESSARY DUE TO OVERHEAD POWER LINES AND MEDIAN WALL BARRIER.



INSTALL OVERHEAD STRUCTURE
OC-030-60-90
LM 9.75 WB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

DocuSigned by:
[signature]
[illegible] 2022 9:38 AM

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	42	105
		SIGN LAYOUT SHEET				

OC-030-62-27

INSTALL
OC30-118-1EB



OC30-118-1EB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "118", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Congo", E Mod; "Road", E Mod;
Arrow Custom - 35.8" 45°;



INSTALL
SS-W13-2
48"X60"

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

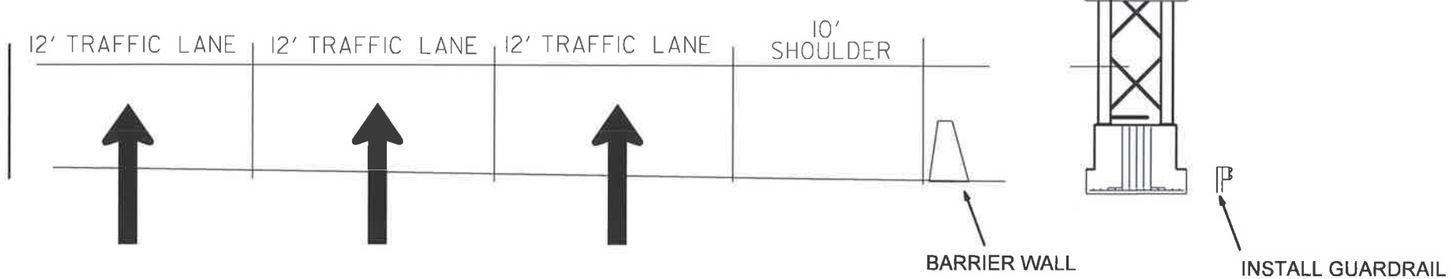
THE CONTRACTOR SHALL FIELD VERIFY OVERHEAD PLACEMENT WITH RE AND MAKE ANY ADJUSTMENTS NECESSARY DUE TO OVERHEAD POWER LINES AND MEDIAN WALL BARRIER.



INSTALL OVERHEAD STRUCTURE
OC-030-62-27
LM 117.41EB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
Date: 2022.09.38 AM
DocuSign

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	43	105
		SIGN LAYOUT SHEET				

OC-030-62-42



OC30-121-2WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "121", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Alcoa", E Mod; "Road", E Mod; "1", E Mod;
"MILE", E Mod;

INSTALL
OC30-121-2WB

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

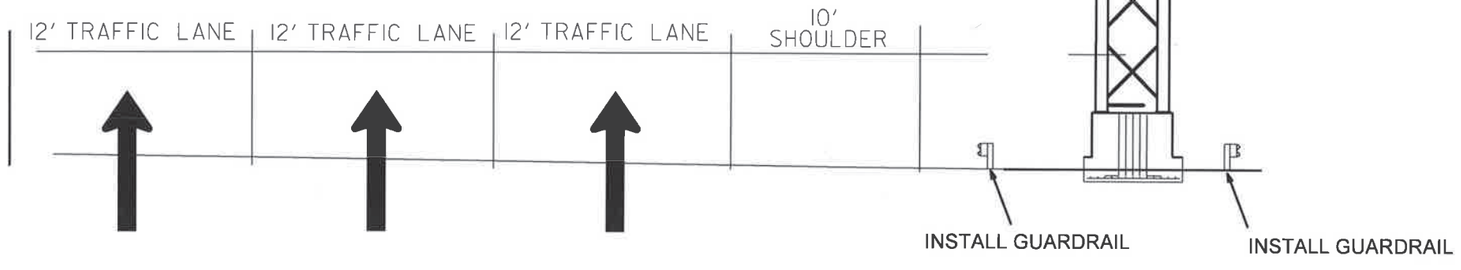
THE CONTRACTOR SHALL FIELD VERIFY OVERHEAD PLACEMENT WITH RE AND MAKE ANY ADJUSTMENTS NECESSARY DUE TO OVERHEAD POWER LINES AND MEDIAN WALL BARRIER.



INSTALL OVERHEAD STRUCTURE
OC-030-62-42
LM 20.85 WB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
DocuSign
2022 9:39 AM

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	44	105
		SIGN LAYOUT SHEET				

OC-030-62-28

INSTALL
OC30-121-1EB



OC30-121-1EB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "121", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Alcoa", E Mod; "Road", E Mod;
Arrow Custom - 35.8" 45°;



INSTALL
SS-W13-2
48"X60"

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

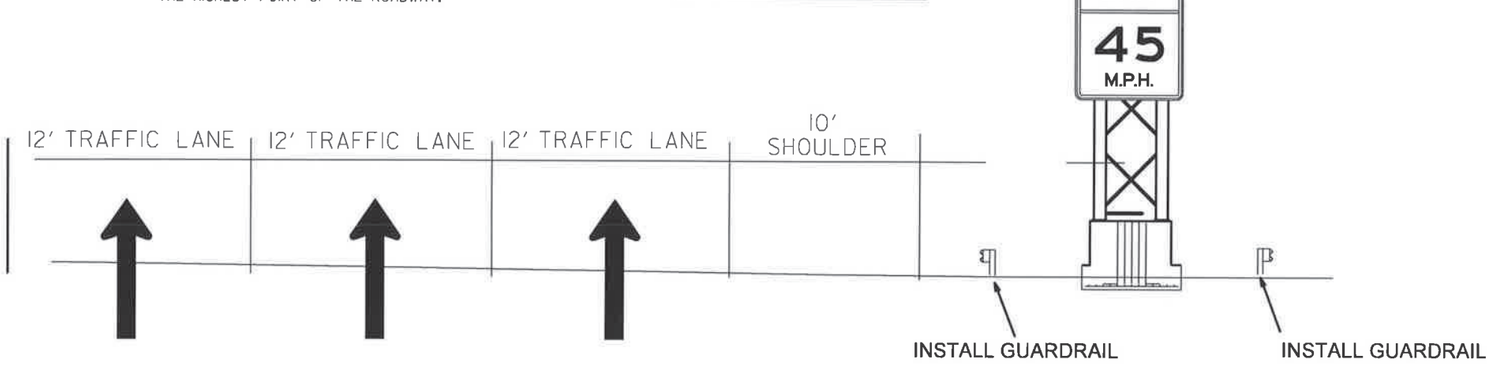
THE CONTRACTOR SHALL FIELD VERIFY OVERHEAD PLACEMENT WITH RE AND MAKE ANY ADJUSTMENTS NECESSARY DUE TO OVERHEAD POWER LINES AND MEDIAN WALL BARRIER.



INSTALL OVERHEAD STRUCTURE
OC-030-62-28
LM 120.17 EB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.

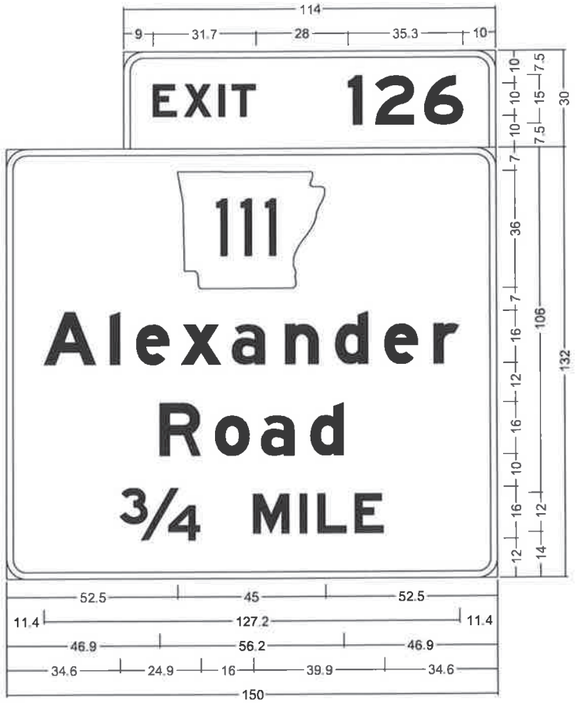


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
Aug 4 2022 9:39 AM
DocuSign

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	45	105
		SIGN LAYOUT SHEET				

OC-030-62-29



INSTALL
OC30-126-2EB

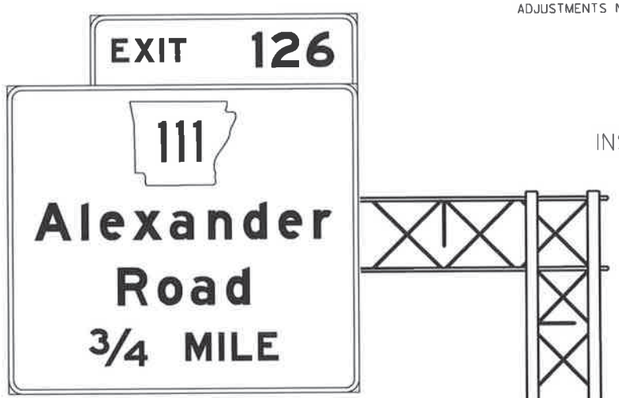
OC30-126-2EB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "126", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Alexander", E Mod; "Road", E Mod; "3/4", E Mod; "MILE", E Mod;

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

THE CONTRACTOR SHALL FIELD VERIFY OVERHEAD PLACEMENT WITH RE AND MAKE ANY ADJUSTMENTS NECESSARY DUE TO OVERHEAD POWER LINES AND MEDIAN WALL BARRIER.

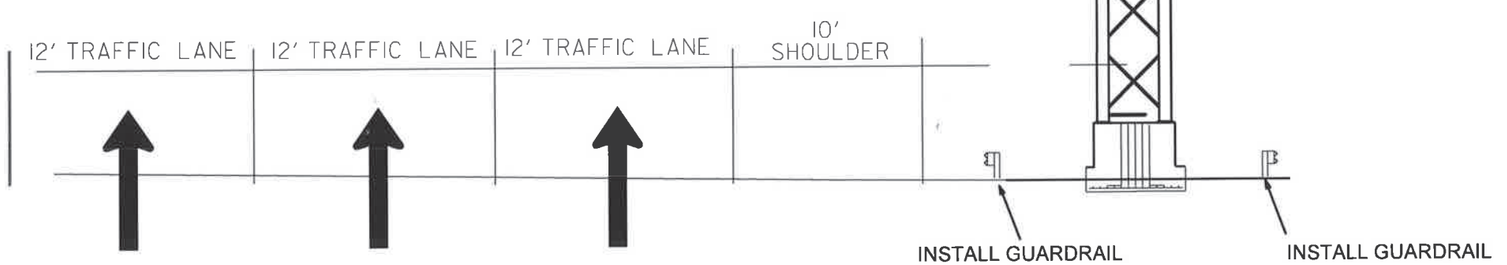


INSTALL OVERHEAD STRUCTURE
OC-030-62-29

LM 125.31 EB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

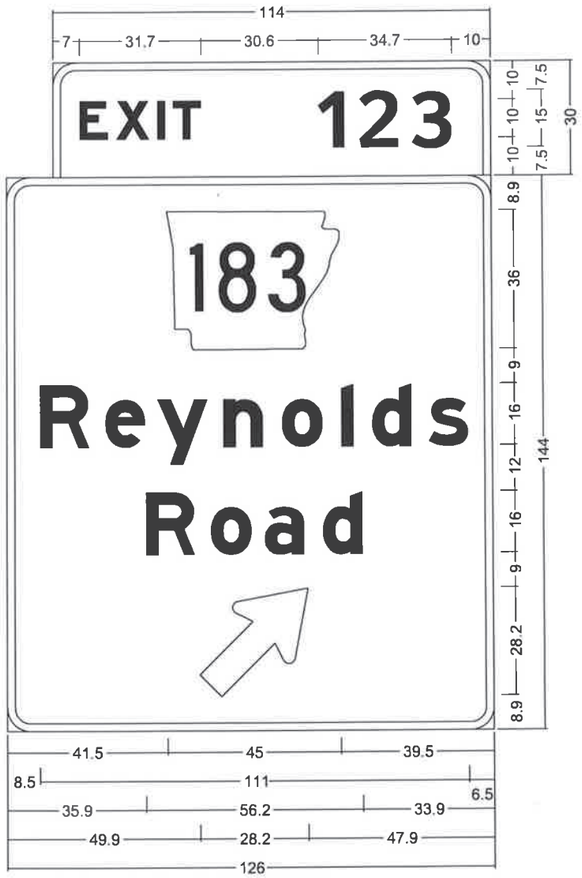
Joseph A. Sartini
10/4/2022 9:39 AM CDT
DocuSign

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.NO. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	46	105
		SIGN LAYOUT SHEET				

OC-030-62-30

INSTALL
OC30-123-1WB



OC30-123-1WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "123", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on Green;
"Reynolds", E Mod; "Road", E Mod;
Arrow Custom - 35.8" 45°;



INSTALL
SS-W13-2
48"X60"

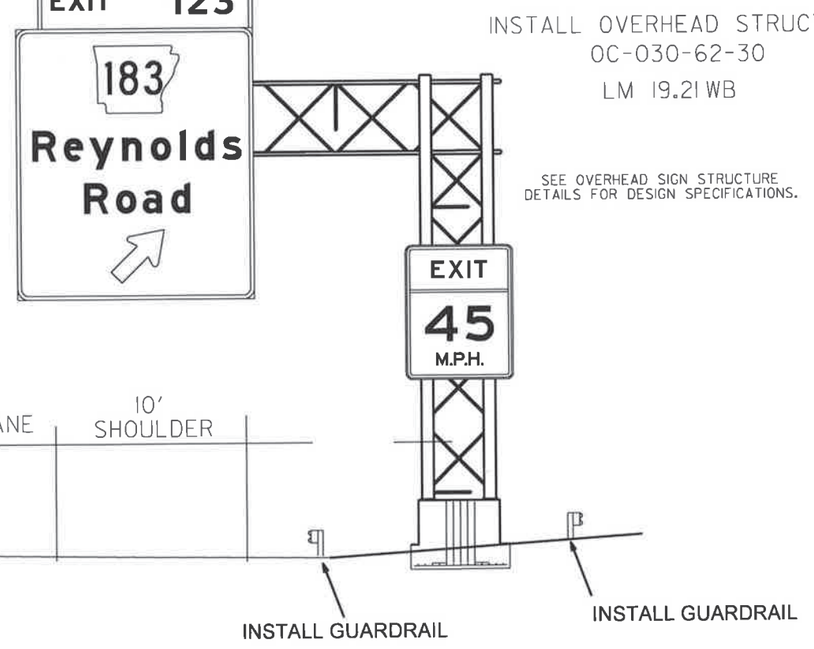
NOTES:
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SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

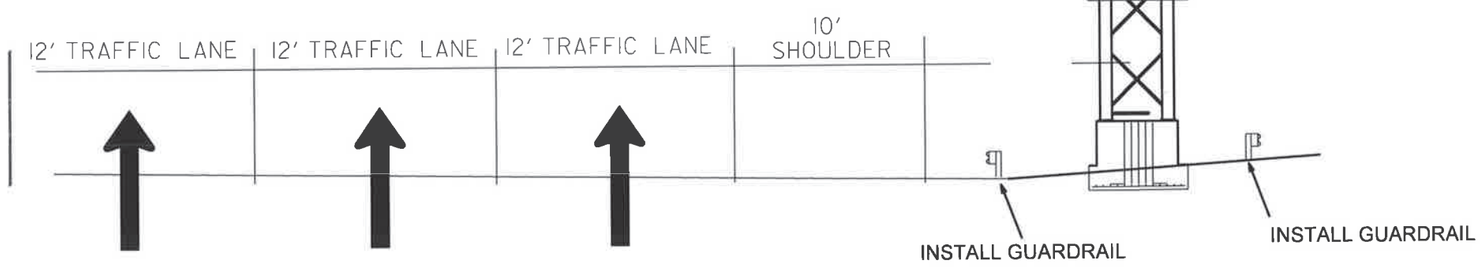
THE CONTRACTOR SHALL FIELD VERIFY OVERHEAD PLACEMENT WITH RE AND MAKE ANY ADJUSTMENTS NECESSARY DUE TO OVERHEAD POWER LINES AND MEDIAN WALL BARRIER.

INSTALL OVERHEAD STRUCTURE
OC-030-62-30
LM 19.21 WB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.



17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
Apr 4 2022 9:39 AM

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	47	105
		SIGN LAYOUT SHEET				

OC-030-62-31

INSTALL
OC30-121-1WB



OC30-121-1WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "121", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Alcoa", E Mod; "Road", E Mod;
Arrow Custom - 35.8" 45°;



INSTALL
SS-W13-2
48"X60"

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

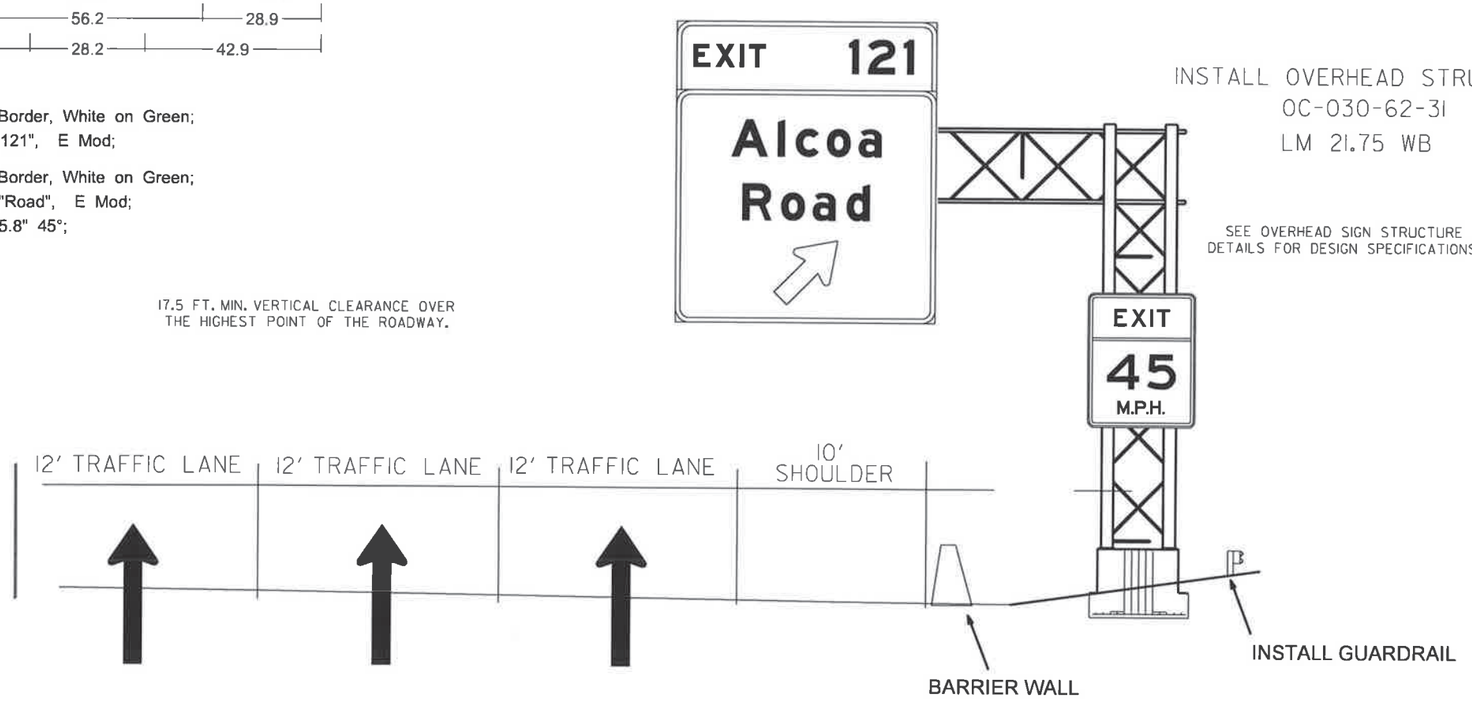
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THE CONTRACTOR SHALL FIELD VERIFY OVERHEAD PLACEMENT WITH RE AND MAKE ANY ADJUSTMENTS NECESSARY DUE TO OVERHEAD POWER LINES AND MEDIAN WALL BARRIER.

INSTALL OVERHEAD STRUCTURE
OC-030-62-31
LM 21.75 WB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
Aug 4 2022 9:40 AM
DocuSigned by:

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	48	105
		SIGN LAYOUT SHEET				

OC-030-62-32

INSTALL
OC-030-118-1WB



OC30-118-1WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "118", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Congo", E Mod; "Road", E Mod;
Arrow Custom - 35.8" 45°;

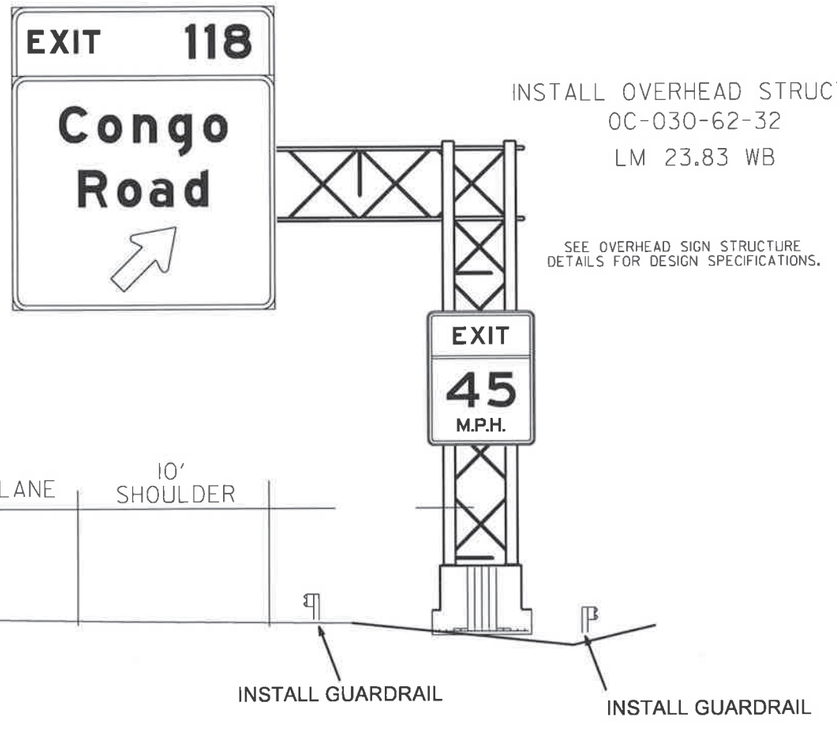


INSTALL
SS-W13-2
48"X60"

NOTES:
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THE CONTRACTOR SHALL FIELD VERIFY OVERHEAD PLACEMENT WITH RE AND MAKE ANY ADJUSTMENTS NECESSARY DUE TO OVERHEAD POWER LINES AND MEDIAN WALL BARRIER.



INSTALL OVERHEAD STRUCTURE
OC-030-62-32
LM 23.83 WB

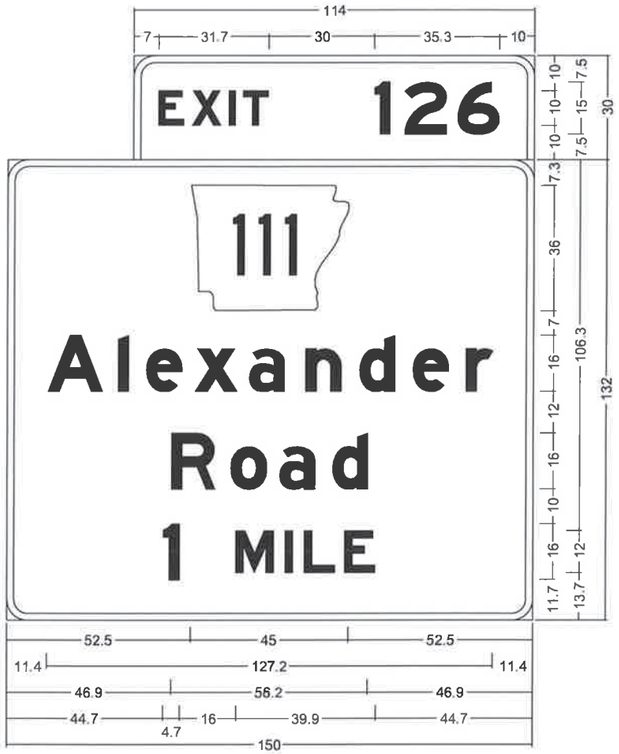
SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
DocuSigned by: 9/22/2022 9:40 AM

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	49	105
		SIGN LAYOUT SHEET				

BM-030-60-91



BM30-126-3WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "126", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Alexander", E Mod; "Road", E Mod; "1", E Mod; "MILE", E Mod;

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

INSTALL BM-030-60-91
LM 14.95 WB



INSTALL -BM30-126-3WB

BRIDGE # 06779
VIMY RIDGE RD

INSTALL -NEW BRIDGE MT.

17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.

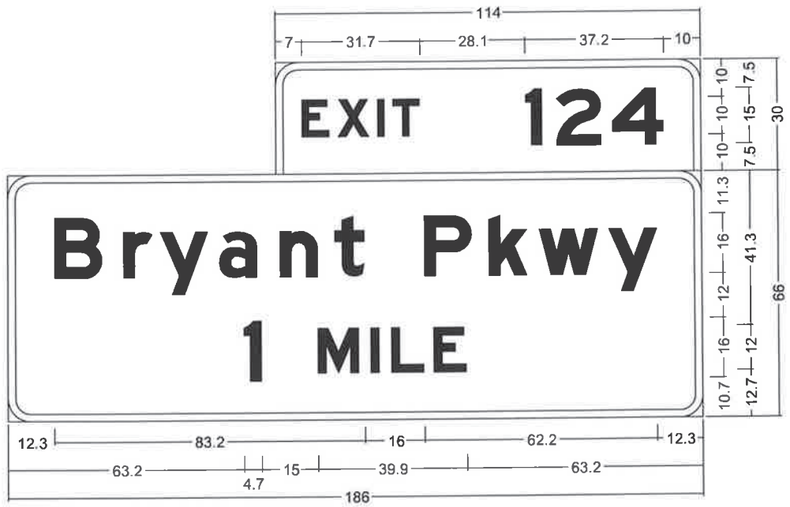


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
Aug 1 2022 9:40 AM
DocuSign

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	50	105
		SIGN LAYOUT SHEET				

BM-030-60-92



BM30-124-1WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "124", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Bryant Pkwy", E Mod; "1", E Mod; "MILE", E Mod;

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

INSTALL -BM30-124-1WB

INSTALL BM-030-60-92
LM 16.40 WB

EXIT 124
Bryant Pkwy
1 MILE

BRIDGE # 06925
ALEXANDER RD

INSTALL -NEW BRIDGE MT.

17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
10/2/2012 9:41 AM
DocuSign

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	51	105
		SIGN LAYOUT SHEET				

BM-030-62-34



BM30-118-1EB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "118", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Congo", E Mod; "Road", E Mod; "3/4", E Mod;
"MILE", E Mod;

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

INSTALL BM-030-62-34
LM 116.63 EB



INSTALL -BM30-118-1EB

BRIDGE # 06866
HWY 35/5

INSTALL -NEW BRIDGE MT.

17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
DocuSign
9:41 AM

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	52	105
		SIGN LAYOUT SHEET				

BM-030-62-35



BM30-121-1EB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "121", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Alcoa", E Mod; "Road", E Mod; "1", E Mod;
"MILE", E Mod;

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.



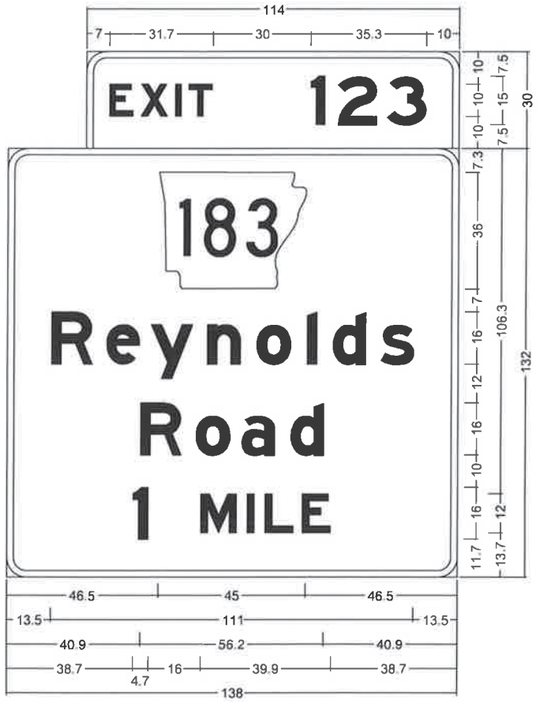


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
Dec 7, 2022 9:41 AM
DocuSign

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	53	105
		SIGN LAYOUT SHEET				

BM-030-62-36

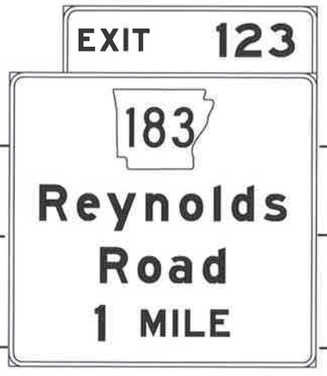


BM30-123-1EB;
6.0" Radius, 2.0" Border, While on Green;
"EXIT", E Mod; "123", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Reynolds", E Mod; "Road", E Mod; "1", E Mod;
"MILE", E Mod;

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.



INSTALL -BM30-123-1EB

INSTALL BM-030-62-36
LM 121.59 EB

BRIDGE # 06778
SPRINGHILL RD

INSTALL -NEW BRIDGE MT.

17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.

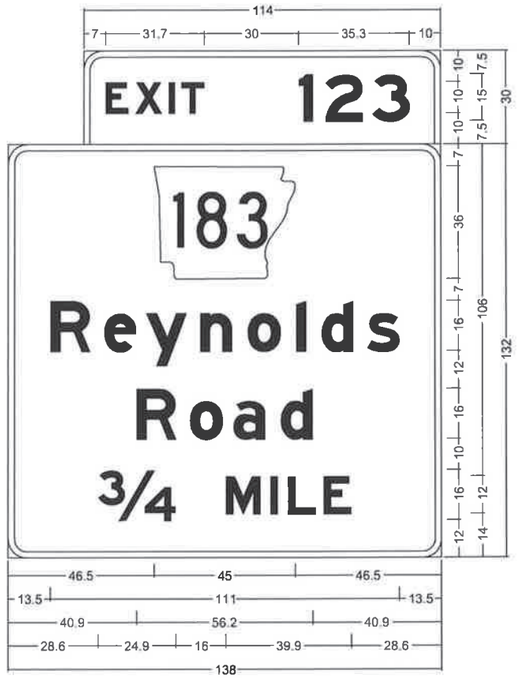


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
4/6/2023 9:41 AM
DocuSign

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	54	105
		SIGN LAYOUT SHEET				

BM-030-62-37

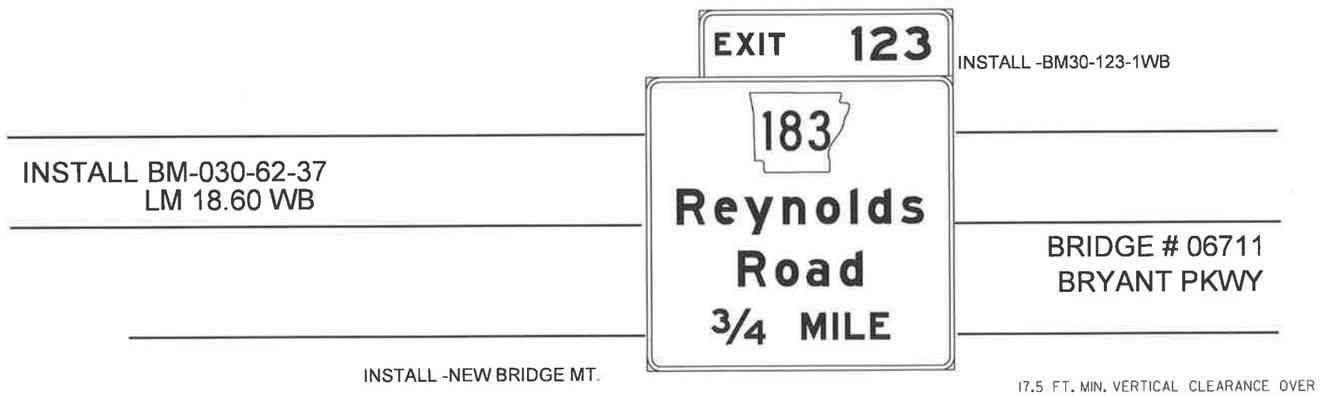


BM30-123-1WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "123", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Reynolds", E Mod; "Road", E Mod; "3/4", E Mod;
"MILE", E Mod;

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.





STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	55	105
		SIGN LAYOUT SHEET				

BM-030-62-38



BM30-121-1WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "121", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Alcoa", E Mod; "Road", E Mod; "½", E Mod;
"MILE", E Mod;

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

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INSTALL BM-030-62-38
LM 21.30 WB

EXIT 121
Alcoa
Road
1/2 MILE

INSTALL -BM30-121-1WB

BRIDGE # 06778
SPRINGHILL RD

INSTALL -NEW BRIDGE MT.

17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	56	105
		SIGN LAYOUT SHEET				

BM-030-62-39

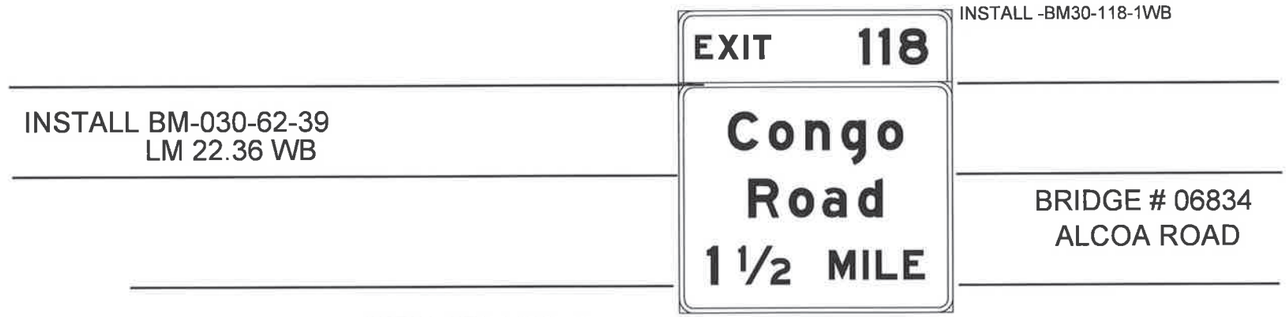


BM30-118-1WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "118", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Congo", E Mod; "Road", E Mod; "1", E Mod;
"½", E Mod; "MILE", E Mod;

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.





STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
Jun 1, 2022 9:42 AM
DocuSign

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	57	105
		SIGN LAYOUT SHEET				

BM-030-62-40



BM30-118-2WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "118", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Congo", E Mod; "Road", E Mod; "1/4", E Mod;
"MILE", E Mod;

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.



INSTALL -BM30-118-2WB

INSTALL BM-030-62-40
LM 23.60 WB

BRIDGE # 06826
MILITARY RD

INSTALL -NEW BRIDGE MT.

17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.



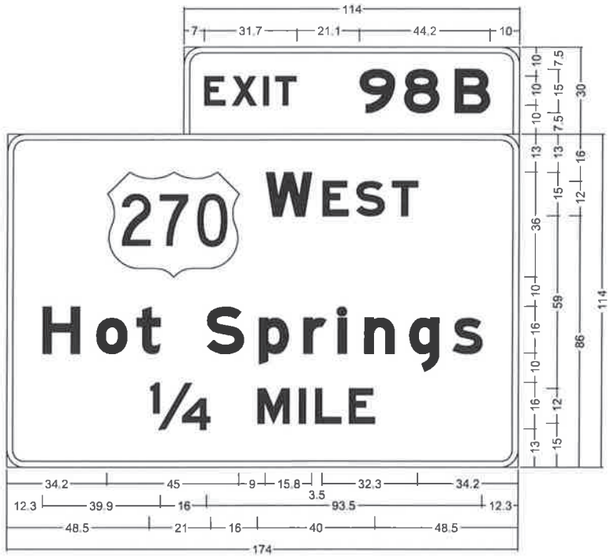
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

10/6/2022 9:42 AM
DocuSign

SIGN LAYOUT SHEET

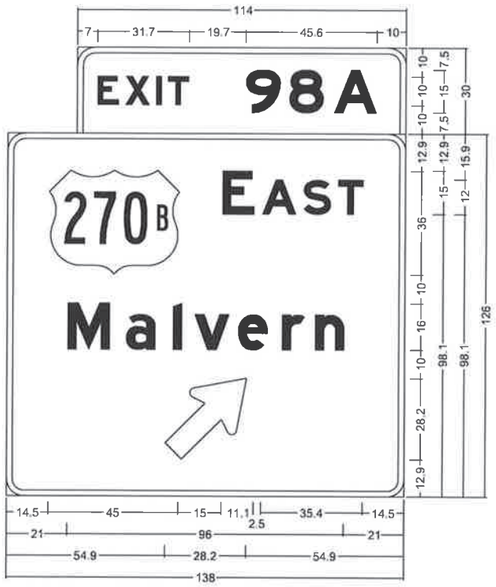
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	58	105
		SIGN LAYOUT SHEET				

OH-30-30-01



OH30-98B-1EB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "98B", E Mod;

6.0" Radius, 2.0" Border, White on Green;
M1-4; "W", E Mod; "EST", E Mod; "Hot Springs", E Mod; "¼", E Mod;
"MILE", E Mod;



OH30-98A-1EB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "98A", E Mod;

6.0" Radius, 2.0" Border, White on Green;
M1-4; "E", E Mod; "AST", E Mod; "Malvern", E Mod;
Arrow Custom - 35.8" 45°;



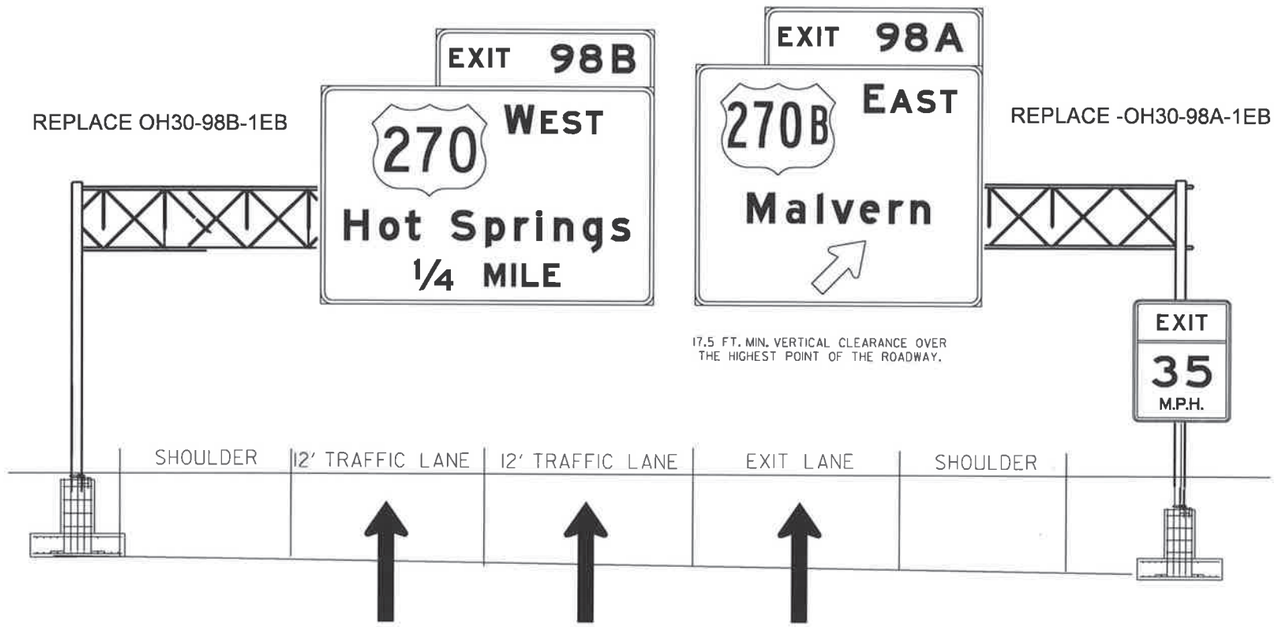
INSTALL
SS-W13-2
48"X60"

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

OH-30-30-01
MAINTAIN OVERHEAD STRUCTURE
LM 97.74 EB

REPLACE OH30-98B-1EB



REPLACE -OH30-98A-1EB

17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.

THE CONTRACTOR SHALL FIELD VERIFY OVERHEAD PLACEMENT WITH RE AND MAKE ANY ADJUSTMENTS NECESSARY DUE TO OVERHEAD POWER LINES AND MEDIAN WALL BARRIER.

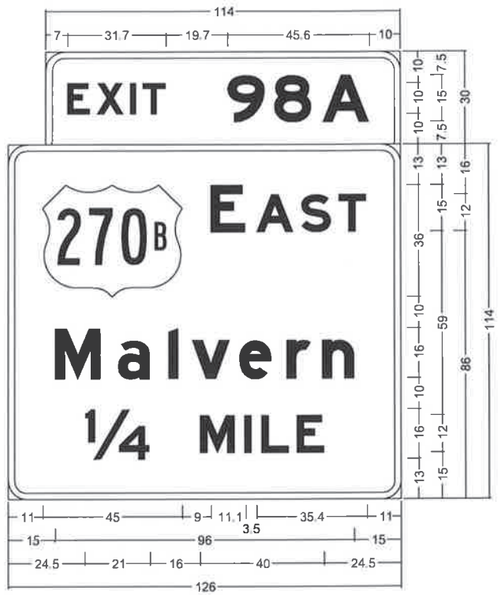
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

Aug 1, 2022 9:42 AM
DocuSign

SIGN LAYOUT SHEET

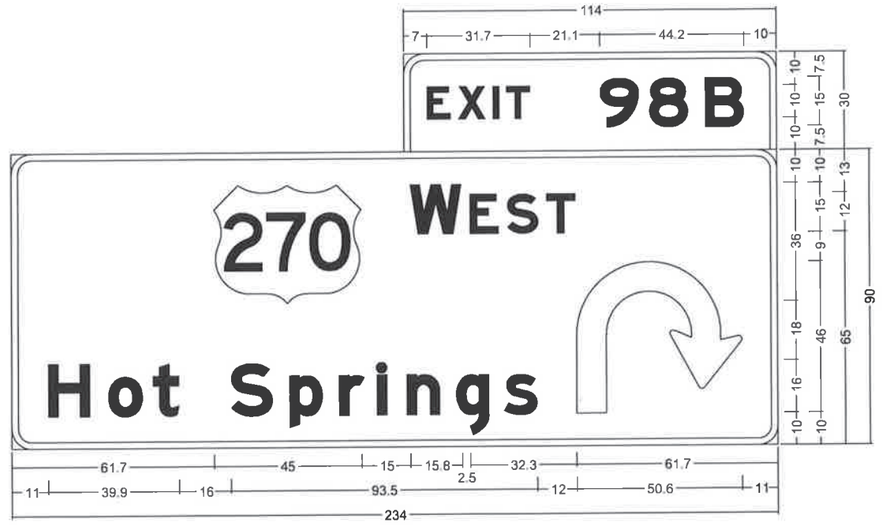
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	59	105
		SIGN LAYOUT SHEET				

OH-30-30-03



OH30-98A-1WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "98A", E Mod;

6.0" Radius, 2.0" Border, White on Green;
M1-4; "E", E Mod; "AST", E Mod; "Malvern", E Mod;
"1/4", E Mod; "MILE", E Mod;



OH30-98B-1WB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "98B", E Mod;

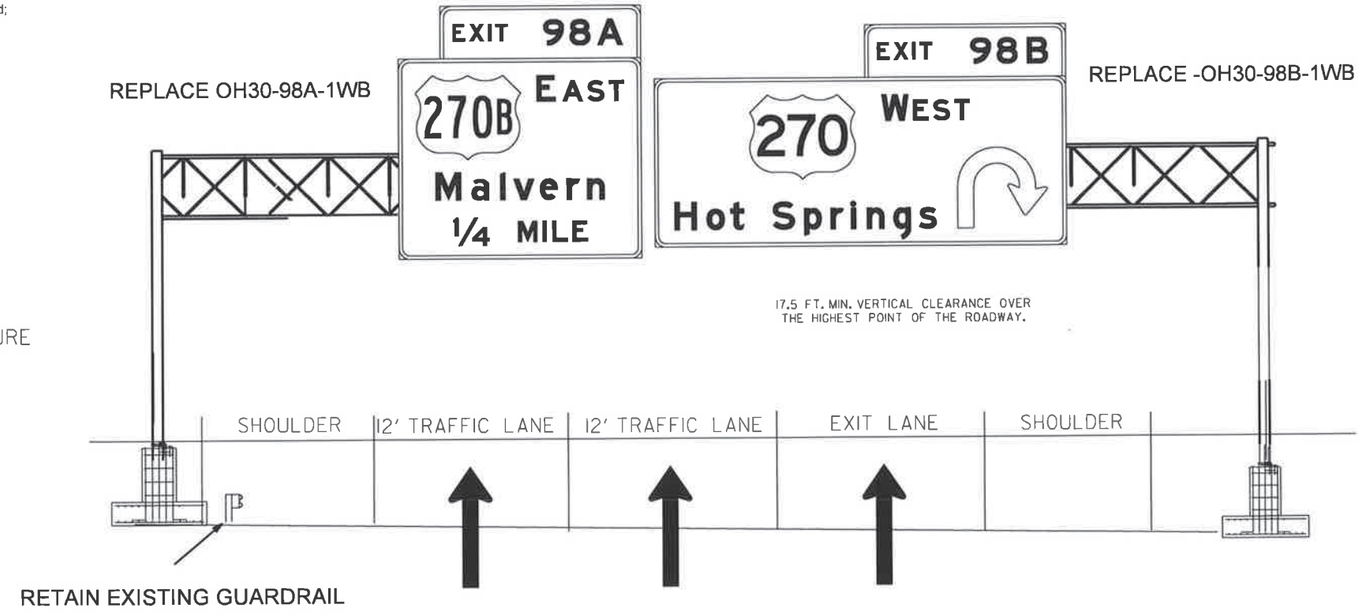
6.0" Radius, 2.0" Border, White on Green;
"W", E Mod; "EST", E Mod; "Hot Springs", E Mod; Turn Arrow Custom;

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

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REPLACE OH30-98A-1WB

REPLACE -OH30-98B-1WB



OH-30-30-03
MAINTAIN OVERHEAD STRUCTURE
LM 44.70 WB

THE CONTRACTOR SHALL FIELD VERIFY OVERHEAD PLACEMENT WITH RE AND MAKE ANY ADJUSTMENTS NECESSARY DUE TO OVERHEAD POWER LINES AND MEDIAN WALL BARRIER.

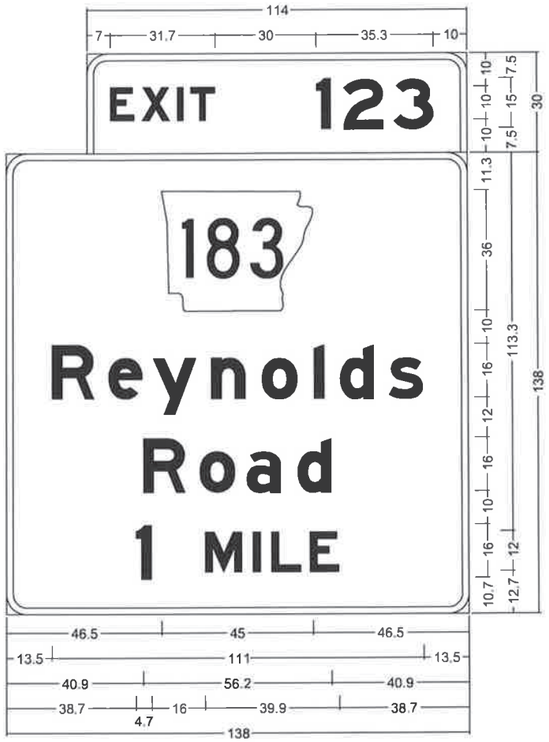
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

DocuSigned by: 10/6/2022 9:43 AM

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	60	105
		SIGN LAYOUT SHEET				

OH-30-62-07



OH30-123-1WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "123", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Reynolds", E Mod; "Road", E Mod; "1", E Mod;
"MILE", E Mod;



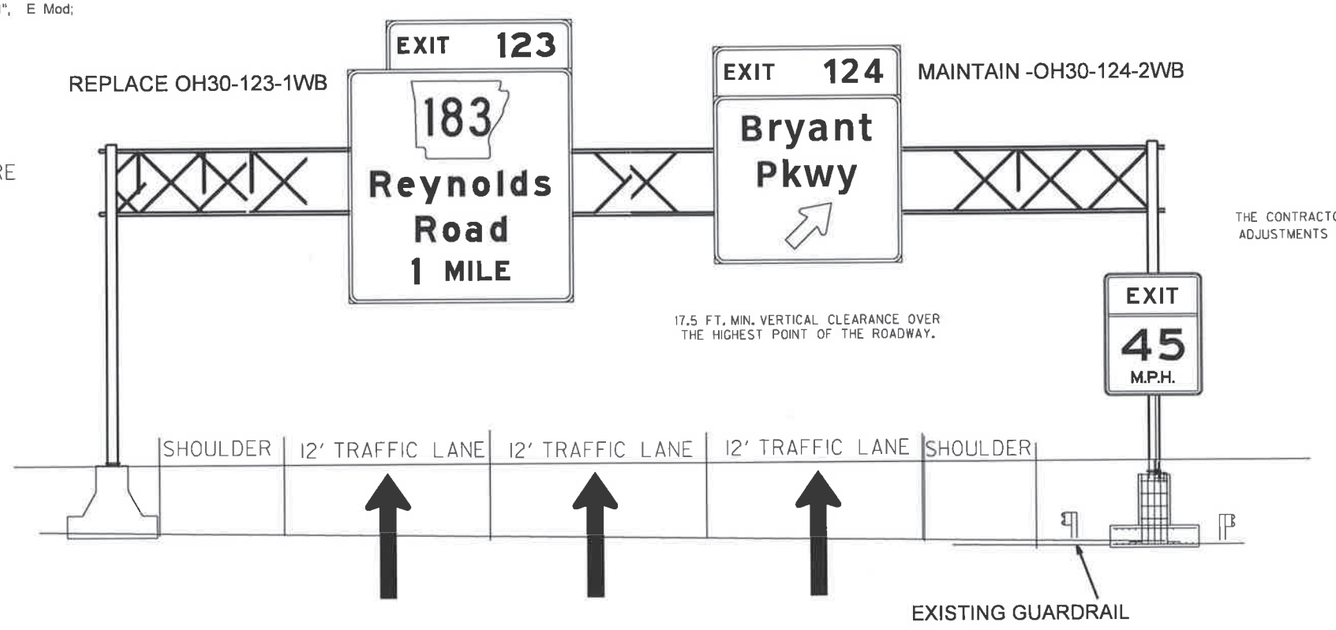
REPLACE
SS-W13-2
48"X60"

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

OH-30-62-07
MAINTAIN OVERHEAD STRUCTURE
LM 17.70 WB

REPLACE OH30-123-1WB



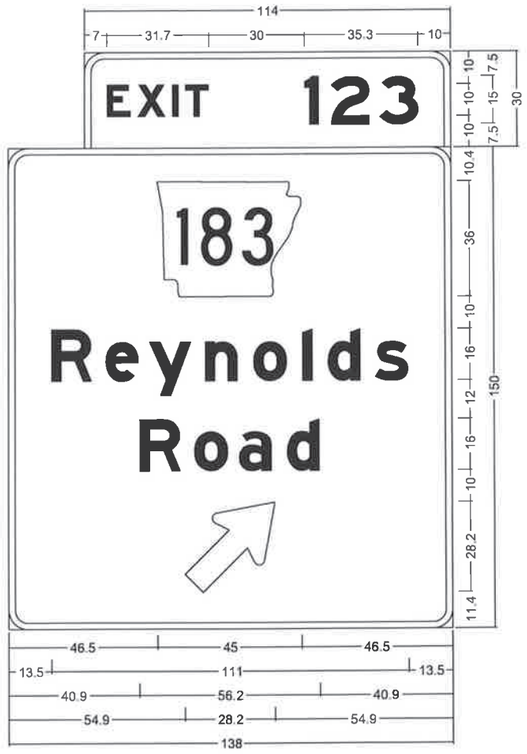
THE CONTRACTOR SHALL FIELD VERIFY OVERHEAD PLACEMENT WITH RE AND MAKE ANY ADJUSTMENTS NECESSARY DUE TO OVERHEAD POWER LINES AND MEDIAN WALL BARRIER.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
2022 9:43 AM
DocuSign

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	61	105
		SIGN LAYOUT SHEET				

OH-30-62-08



OH30-123-1EB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "123", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Reynolds", E Mod; "Road", E Mod; Arrow Custom - 35.8" 45°;



REPLACE
SS-W13-2
48"X60"

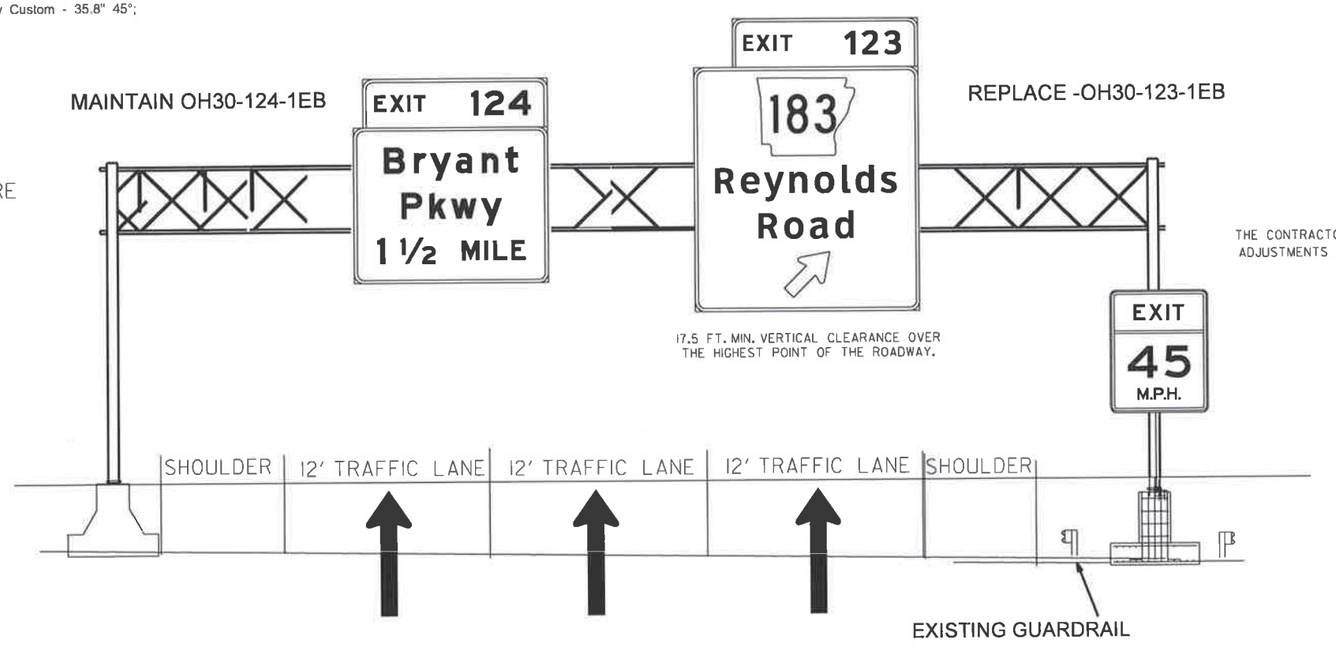
NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

OH-30-62-08
MAINTAIN OVERHEAD STRUCTURE
LM 122.49 EB

MAINTAIN OH30-124-1EB

REPLACE -OH30-123-1EB



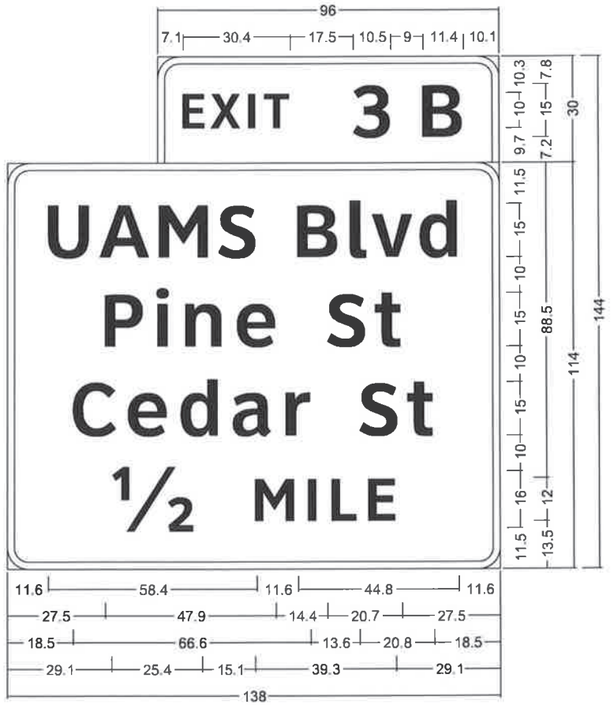
THE CONTRACTOR SHALL FIELD VERIFY OVERHEAD PLACEMENT WITH RE AND MAKE ANY ADJUSTMENTS NECESSARY DUE TO OVERHEAD POWER LINES AND MEDIAN WALL BARRIER.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

SIGN LAYOUT SHEET

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		6	ARK.	061754	62	105
		SIGN LAYOUT SHEET				

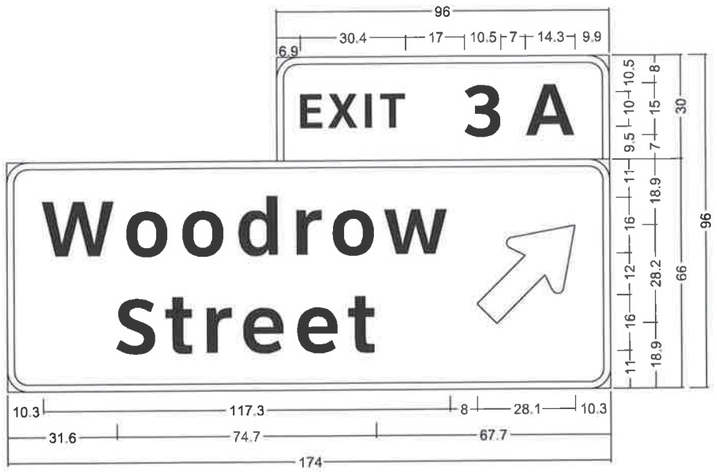
OH-630-60-II



OH630-3B-1WB;

6.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-5-W-R; "3", ClearviewHwy-5-W-R;
"B", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on Green;
"UAMS Blvd", ClearviewHwy-5-W-R 75% spacing;
"Pine St", ClearviewHwy-5-W-R; "Cedar St", ClearviewHwy-5-W-R;
"½ ", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;



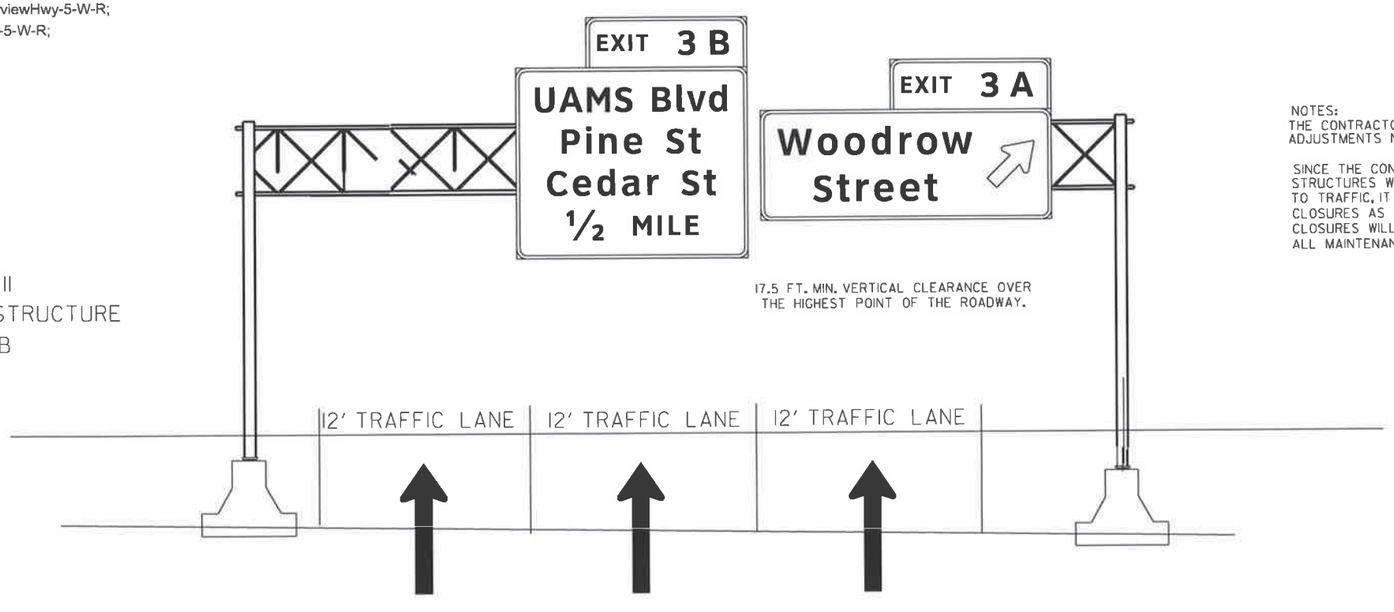
OH630-3A-1WB;

6.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-5-W-R; "3", ClearviewHwy-5-W-R; "A", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on Green;
"Woodrow", ClearviewHwy-5-W-R; "Street", ClearviewHwy-5-W-R;
Standard Arrow Custom 35.8" X 21.6" 45°;

REPLACE
OH630-3B-1WB

MAINTAIN
OH630-3A-1WB



17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.

OH-630-60-II
MAINTAIN OVERHEAD STRUCTURE
LM 2.772 WB

NOTES:
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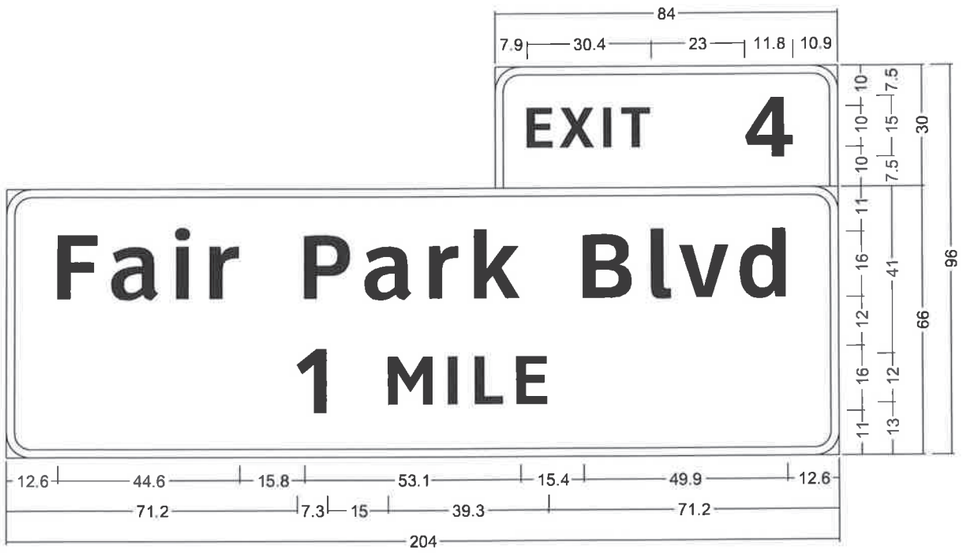
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

Aug 2, 2022 9:44 AM
DocuSigned by:

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	63	105
		SIGN LAYOUT SHEET				

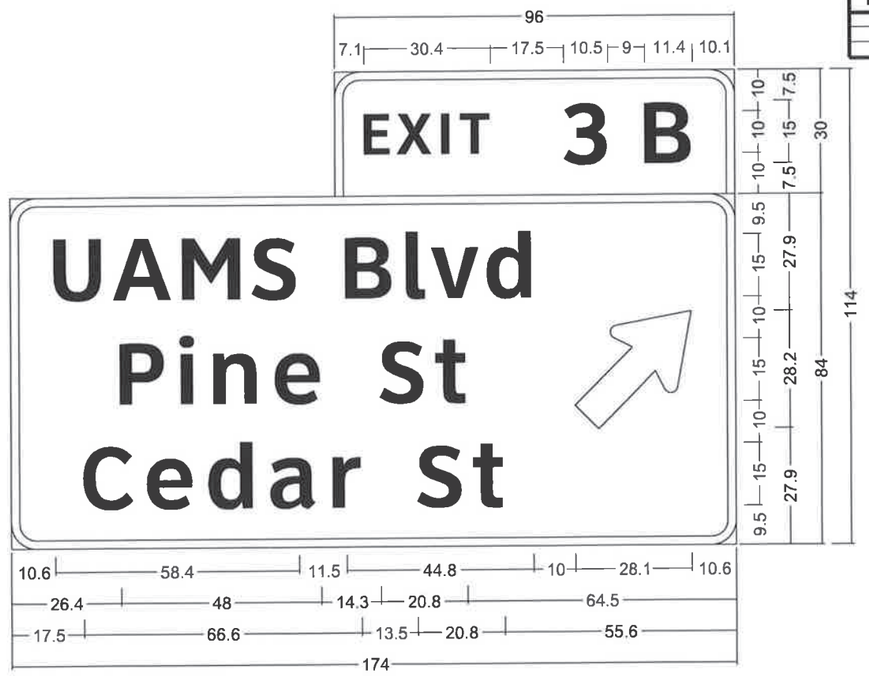
OH-630-60-12



OH630-4-1WB;

6.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-5-W-R; "4", ClearviewHwy-5-W-R;

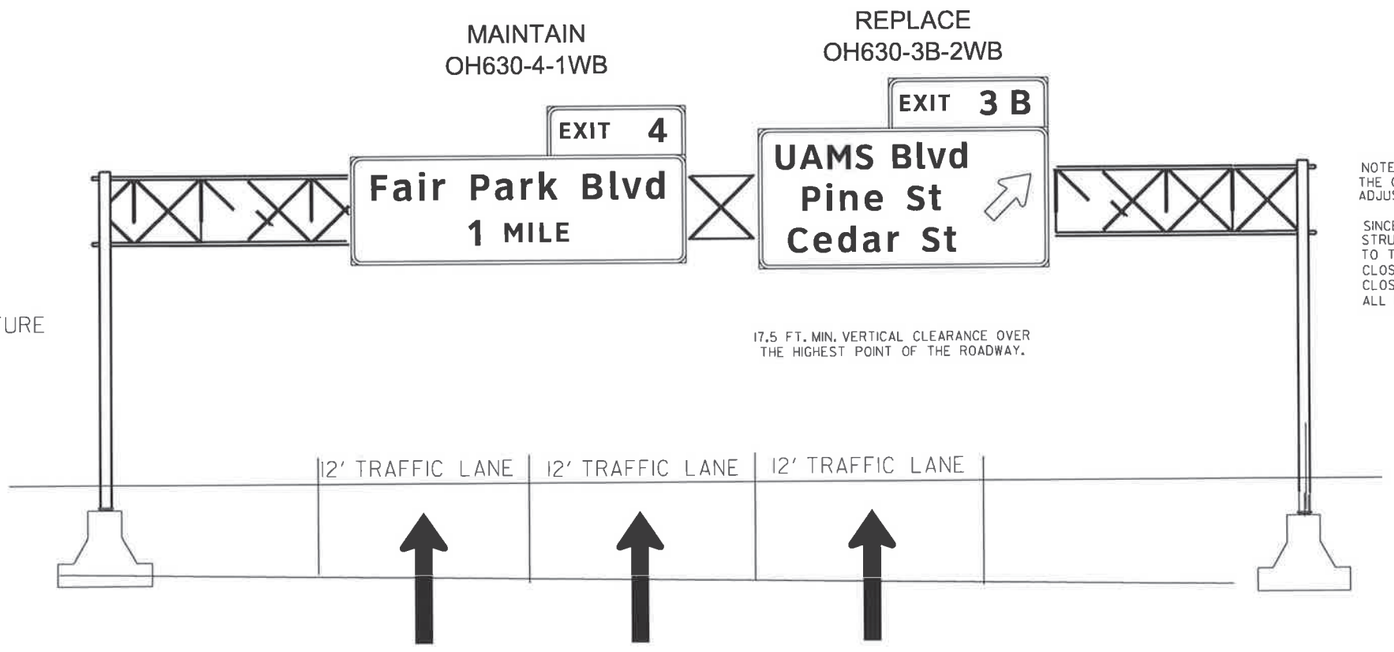
6.0" Radius, 2.0" Border, White on Green;
"Fair Park Blvd", ClearviewHwy-5-W-R; "1", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;



OH630-3B-2WB;

6.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-5-W-R; "3", ClearviewHwy-5-W-R; "B", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on Green;
"UAMS Blvd", ClearviewHwy-5-W-R 75% spacing; "Pine St", ClearviewHwy-5-W-R;
"Cedar St", ClearviewHwy-5-W-R; Standard Arrow Custom 35.8" X 21.6" 45°;



OH-630-60-12
MAINTAIN OVERHEAD STRUCTURE
LM 3.380 WB

NOTES:
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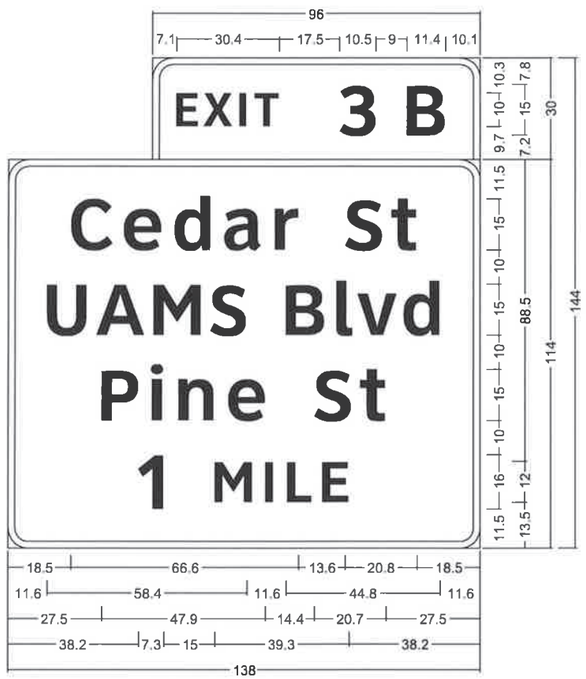
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

DocuSigned by: 4/1/2022 9:44 AM

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	64	105
		SIGN LAYOUT SHEET				

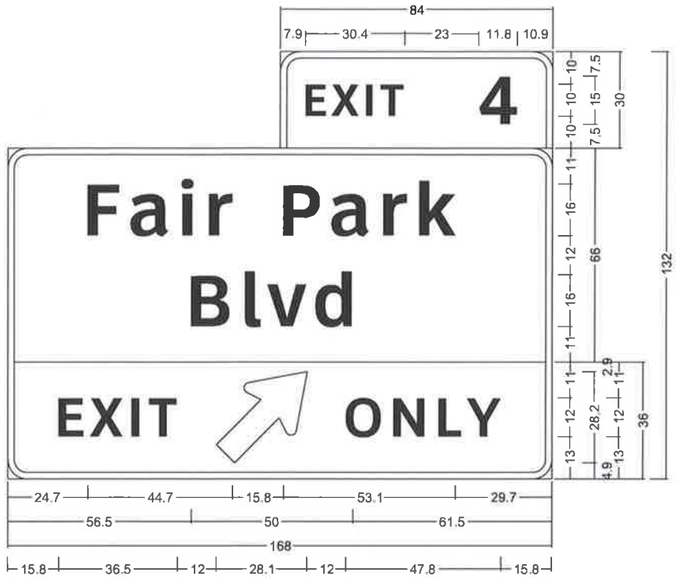
OH-630-60-60



OH630-3B-1EB;

6.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-5-W-R; "3", ClearviewHwy-5-W-R;
"B", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on Green;
"Cedar St", ClearviewHwy-5-W-R;
"UAMS Blvd", ClearviewHwy-5-W-R 75% spacing;
"Pine St", ClearviewHwy-5-W-R; "1", ClearviewHwy-5-W-R;
"MILE", ClearviewHwy-5-W-R;



OH630-4-2EB;

6.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-5-W-R; "4", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on Green;
"Fair Park", ClearviewHwy-5-W-R; "Blvd", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, Black on Yellow;
"EXIT", ClearviewHwy-5-W-R; Standard Arrow Custom 35.8" X 21.6" 45°;
"ONLY", ClearviewHwy-5-W-R;

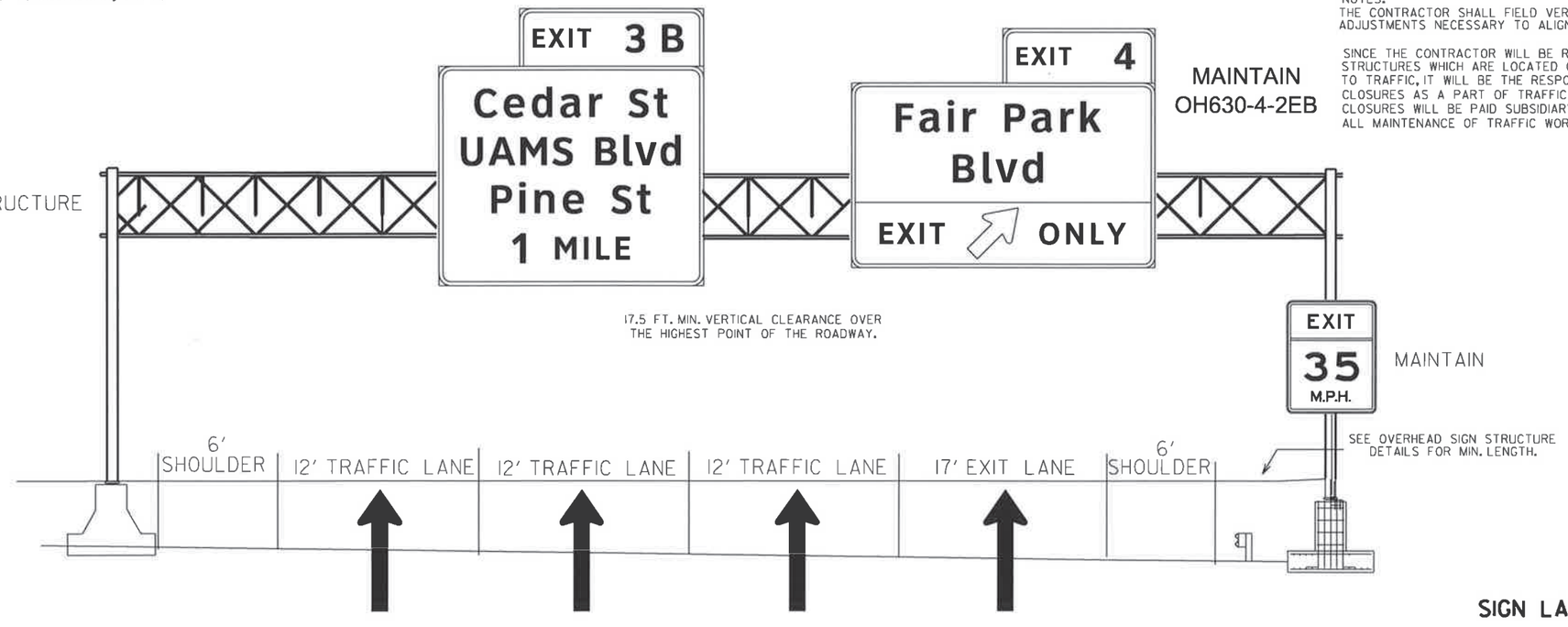
REPLACE
OH630-3B-1EB

MAINTAIN
OH630-4-2EB

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OH-630-60-60
MAINTAIN OVERHEAD STRUCTURE
LM 3.935 EB

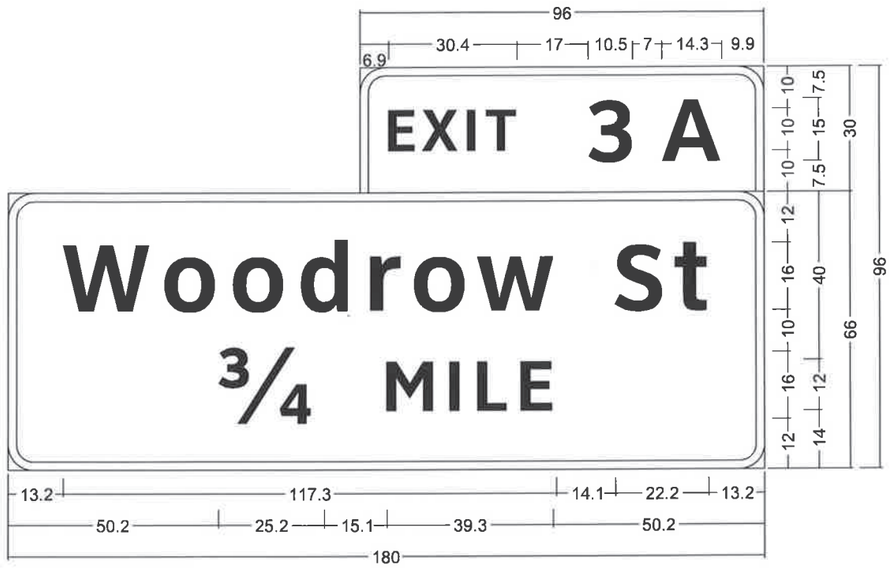


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
10/4/2022 9:44 AM

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	65	105
		SIGN LAYOUT SHEET				

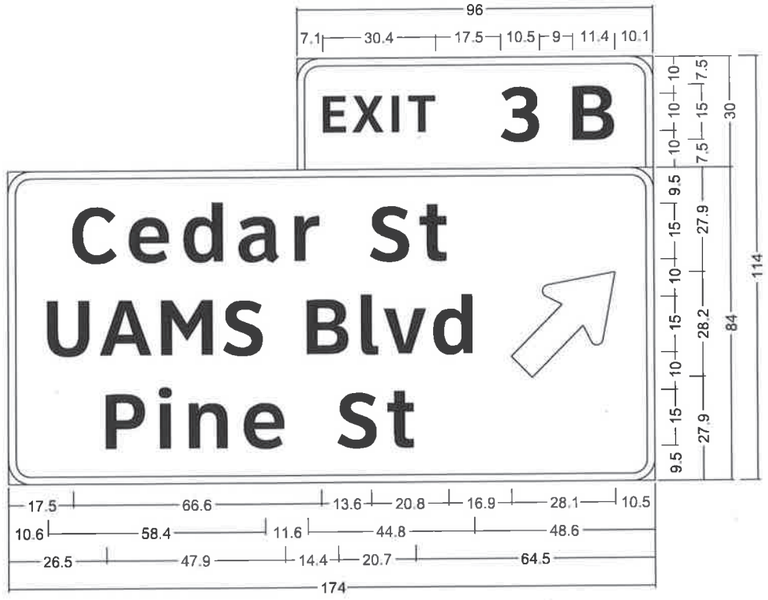
OH-630-60-32



OH630-3A-1EB;

6.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-5-W-R; "3", ClearviewHwy-5-W-R; "A", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on Green;
"Woodrow St", ClearviewHwy-5-W-R; "¾ ", ClearviewHwy-5-W-R;
"MILE", ClearviewHwy-5-W-R;



OH630-3B-2EB;

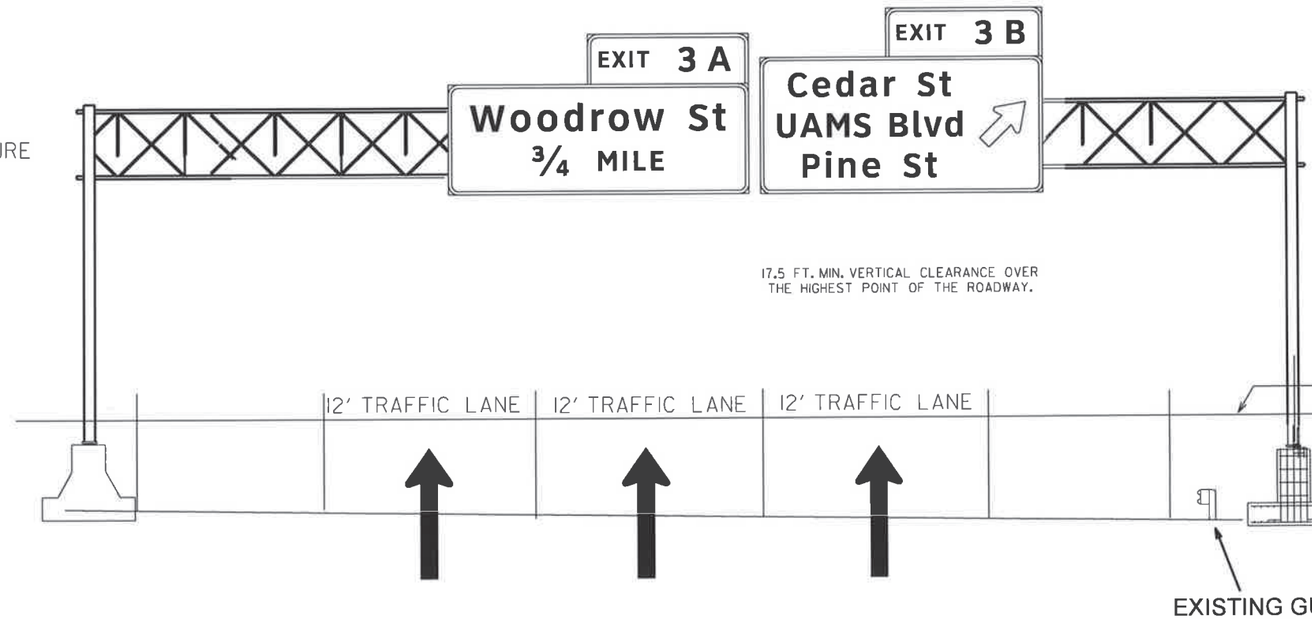
6.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-5-W-R; "3", ClearviewHwy-5-W-R; "B", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on Green;
"Cedar St", ClearviewHwy-5-W-R; "UAMS Blvd", ClearviewHwy-5-W-R 75% spacing;
"Pine St", ClearviewHwy-5-W-R; Standard Arrow Custom 35.8" X 21.6" 45°;

OH-630-60-32
MAINTAIN OVERHEAD STRUCTURE
LM 3.935 EB

MAINTAIN
OH630-3A-1EB

REPLACE
OH630-3B-2EB



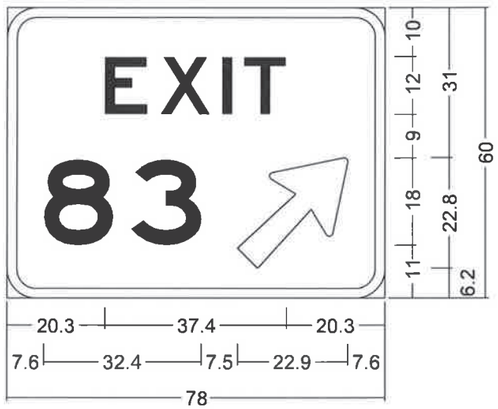
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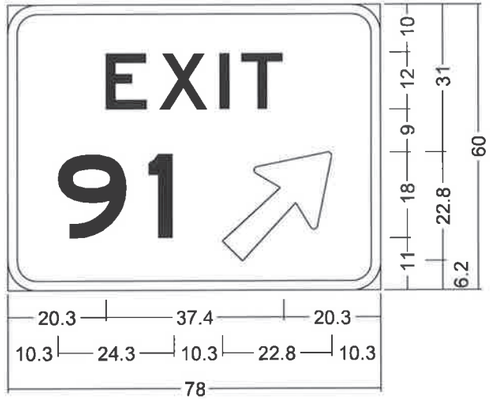
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
4/13/2022 9:44 AM

SIGN LAYOUT SHEET

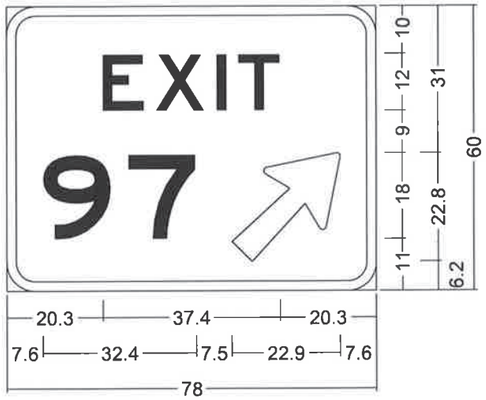
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	66	105
		SIGN LAYOUT SHEET				



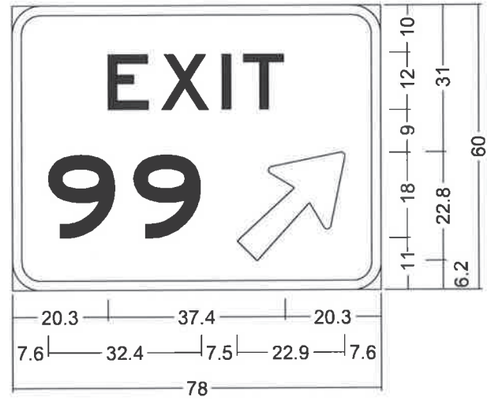
EXIT83-EB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E; "83", E;
Arrow Custom - 29.0" 45°;



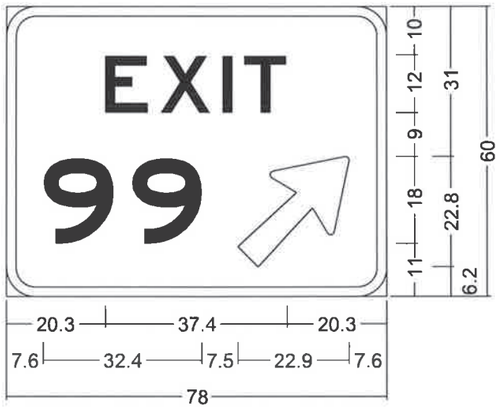
EXIT91-EB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E; "91", E;
Arrow Custom - 29.0" 45°;



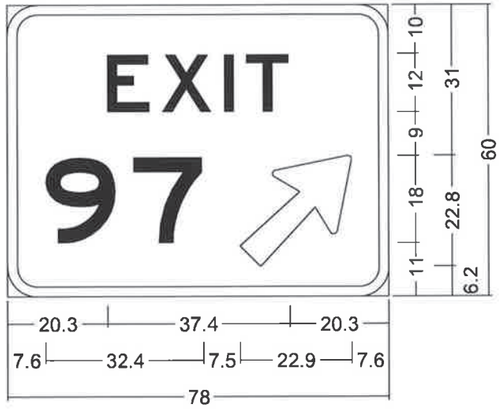
EXIT97-EB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E; "97", E;
Arrow Custom - 29.0" 45°;



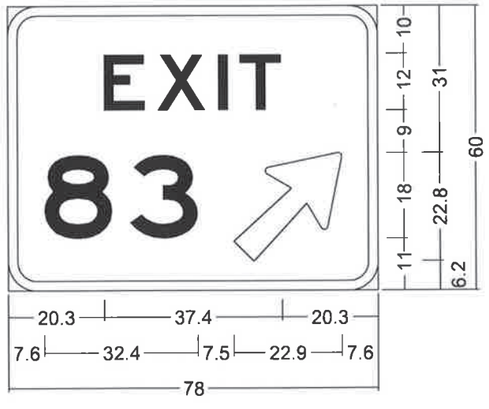
EXIT99-EB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E; "99", E;
Arrow Custom - 29.0" 45°;



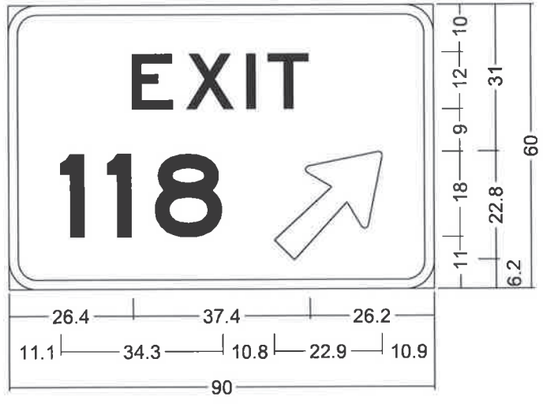
EXIT99-WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E; "99", E;
Arrow Custom - 29.0" 45°;



EXIT97-WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E; "97", E;
Arrow Custom - 29.0" 45°;



EXIT83-WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E; "83", E;
Arrow Custom - 29.0" 45°;

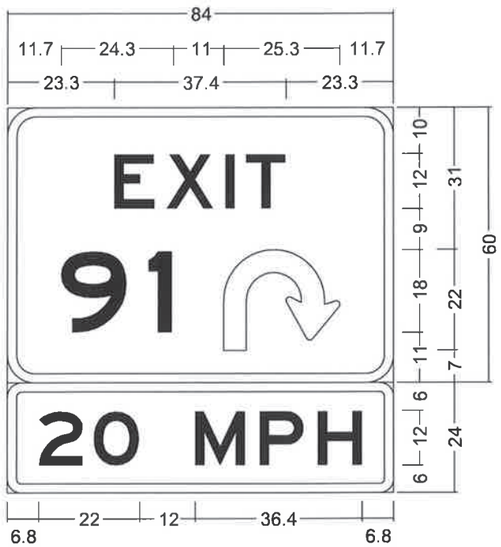


EXIT118-EB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E; "118", E;
Arrow Custom - 29.0" 45°;

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
4/6/2022 9:45 AM
DocuSign

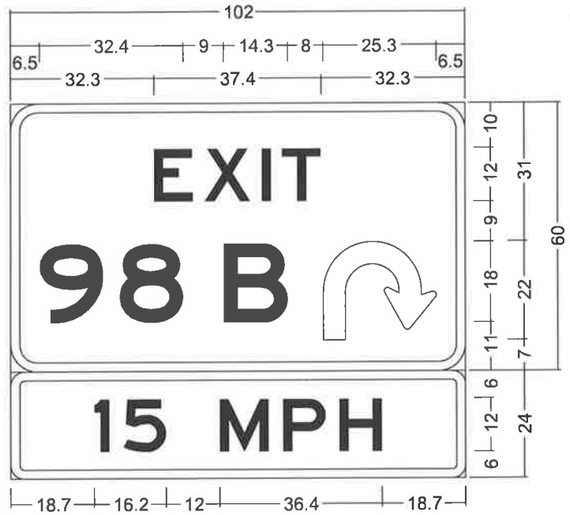
SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	67	105
		SIGN LAYOUT SHEET				



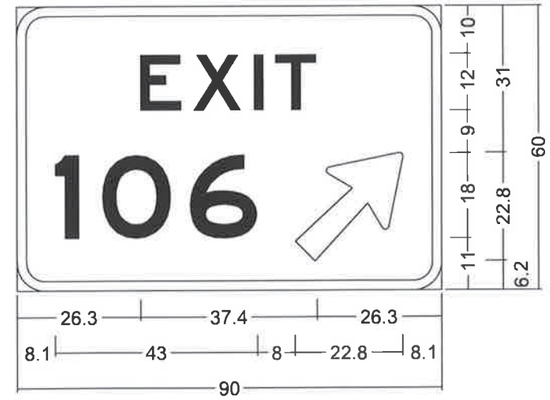
EXIT91-WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E; "91", E;
Turn Arrow Custom;

3.0" Radius, 2.0" Border, Black on Yellow;
"20 MPH", E;

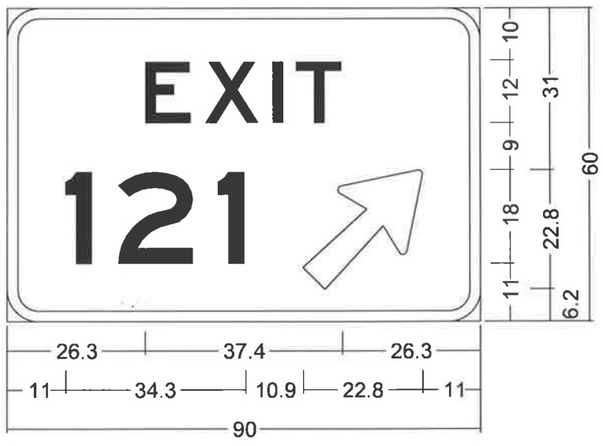


EXIT98B-WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E; "98", E; "B", E;
Turn Arrow Custom;

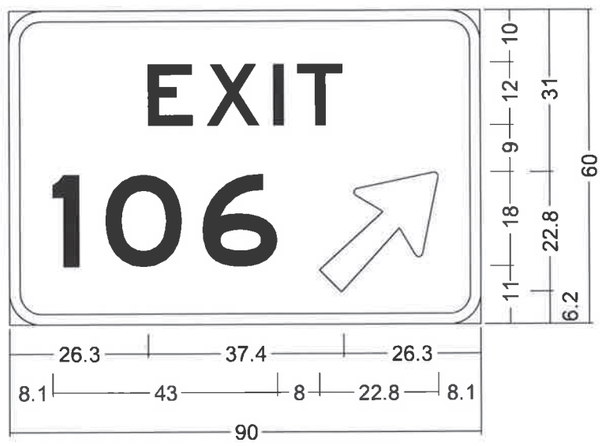
3.0" Radius, 2.0" Border, Black on Yellow;
"15 MPH", E;



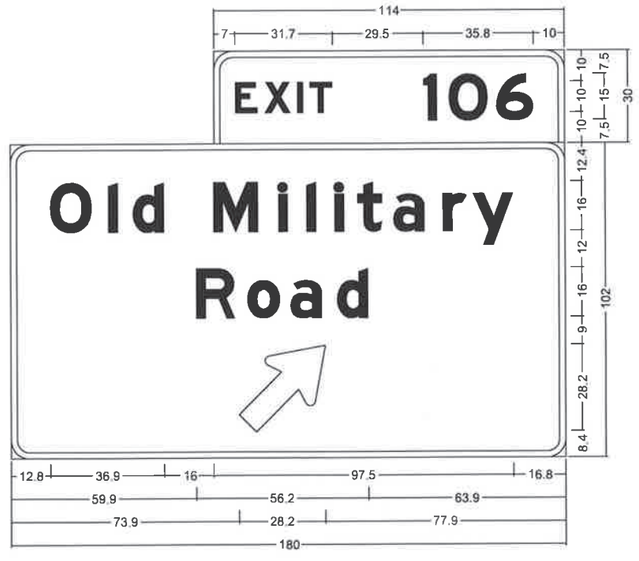
EXIT106-EB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E; "106", E;
Arrow Custom - 29.0" 45°;



EXIT121-WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E; "121", E;
Arrow Custom - 29.0" 45°;



EXIT106-WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E; "106", E;
Arrow Custom - 29.0" 45°;



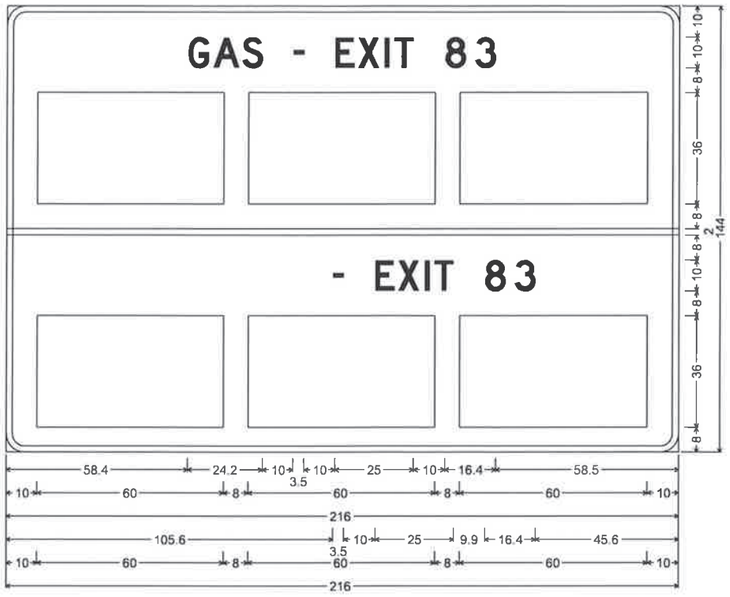
ML30-106-5EB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "106", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Old Military", E Mod; "Road", E Mod; Standard Arrow Custom 35.8" X 21.6" 45°;

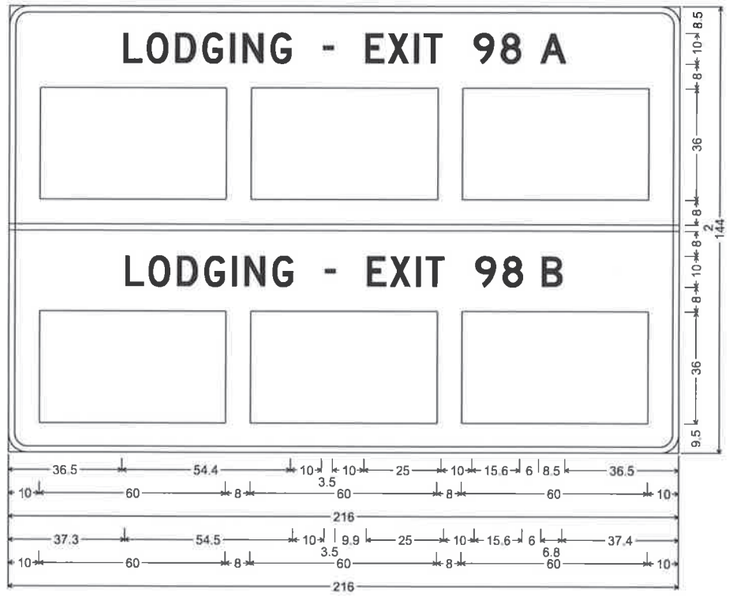
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
Aug 1 2022 9:45 AM
DocuSign

SIGN LAYOUT SHEET

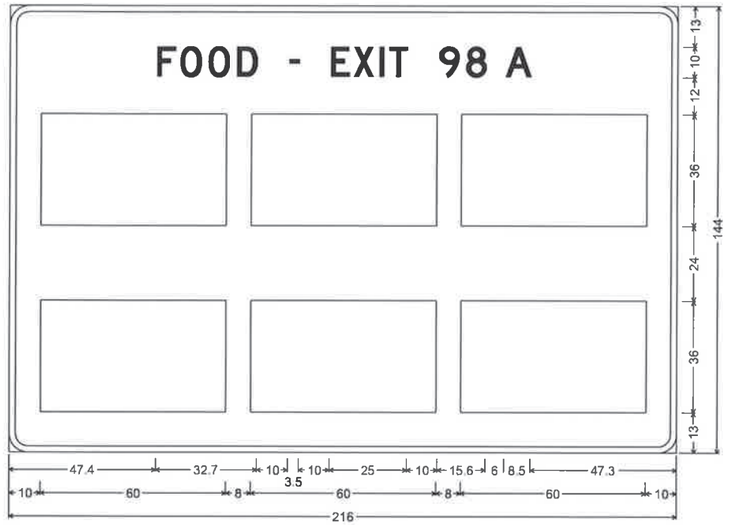
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	68	105
		SIGN LAYOUT SHEET				



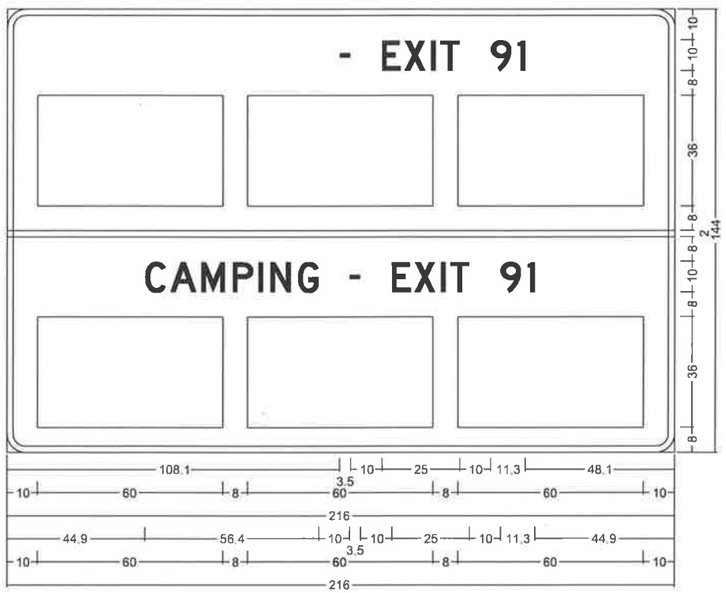
LGX30-83EB;
6.0" Radius, 2.0" Border, White on Blue;
"GAS - EXIT 83", D 2K; " - EXIT 83", D 2K;



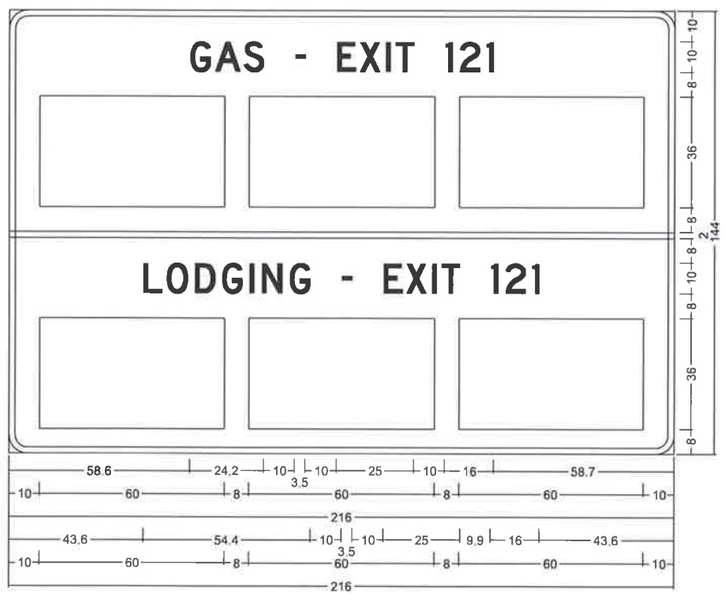
LL30-98AB-EB ;
6.0" Radius, 2.0" Border, White on Blue;
"LODGING - EXIT 98", D 2K; "A", D 2K; "LODGING - EXIT 98", D 2K; "B", D 2K;



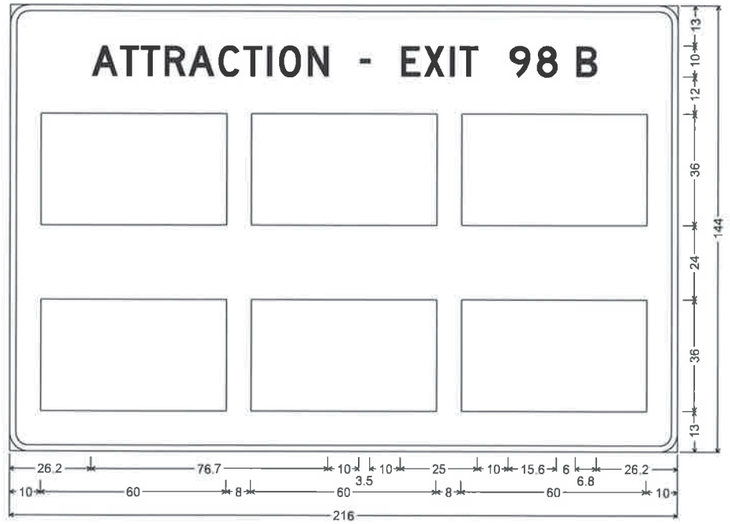
LF30-98AEB ;
6.0" Radius, 2.0" Border, White on Blue;
"FOOD - EXIT 98", D 2K; "A", D 2K;



LXC30-91EB;
6.0" Radius, 2.0" Border, White on Blue;
" - EXIT 91", D 2K; "CAMPING - EXIT 91", D 2K;



LGL30-121EB;
6.0" Radius, 2.0" Border, White on Blue;
"GAS - EXIT 121", D 2K; "LODGING - EXIT 121", D 2K;

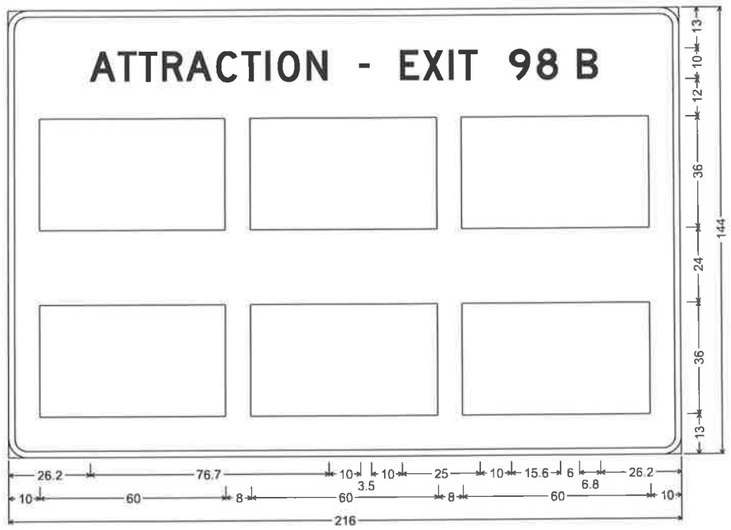


LA30-98B-EB ;
6.0" Radius, 2.0" Border, White on Blue;
"ATTRACTION - EXIT 98", D 2K; "B", D 2K;

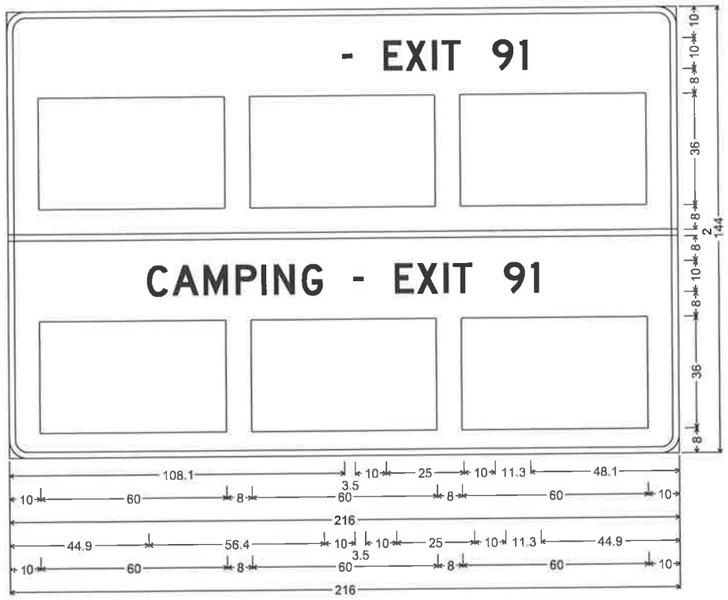
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
4/4/2022 9:45 AM
DocuSigned

SIGN LAYOUT SHEET

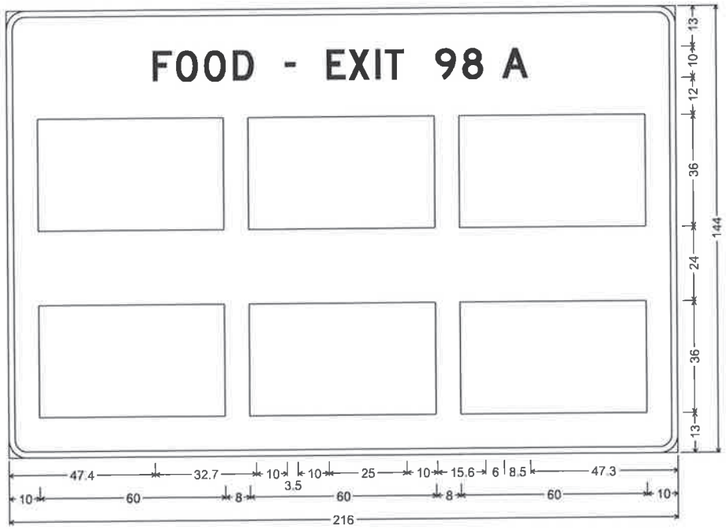
DATE REVISED	DATE REVISED	FED.RD. DST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	69	105
		SIGN LAYOUT SHEET				



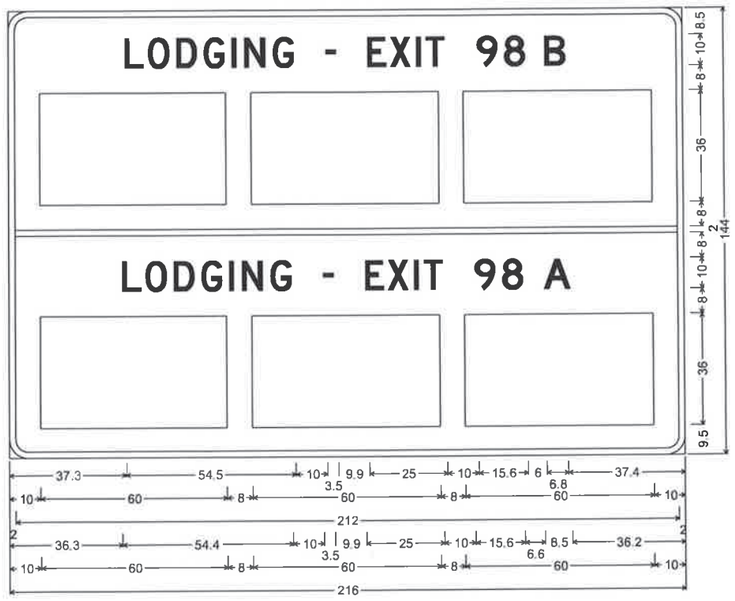
LA30-98B-WB ;
6.0" Radius, 2.0" Border, White on Blue;
"ATTRACTION - EXIT 98", D 2K; "B", D 2K;



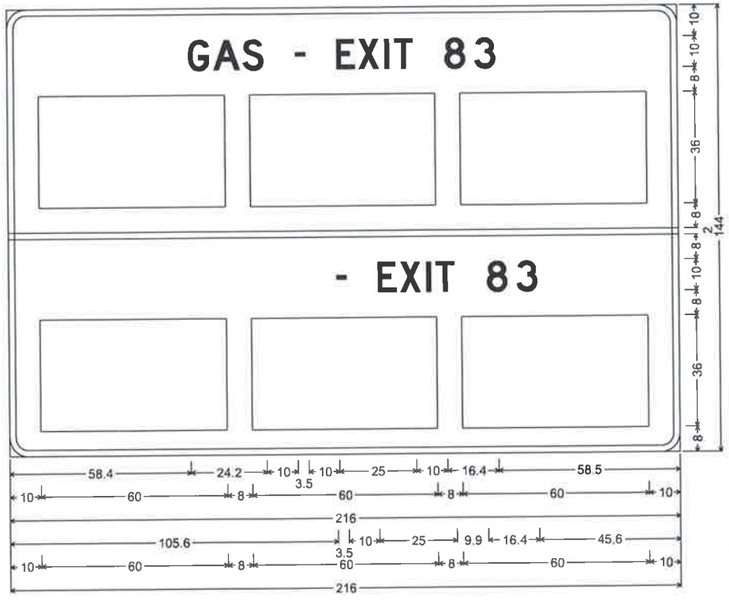
LXC30-91WB;
6.0" Radius, 2.0" Border, White on Blue;
" - EXIT 91", D 2K; "CAMPING - EXIT 91", D 2K;



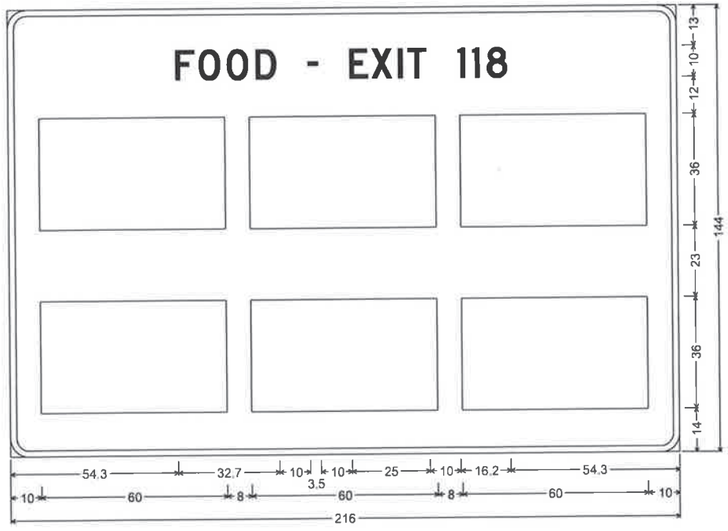
LF30-98AWB ;
6.0" Radius, 2.0" Border, White on Blue;
"FOOD - EXIT 98", D 2K; "A", D 2K;



LL30-98BA-WB ;
6.0" Radius, 2.0" Border, White on Blue;
"LODGING - EXIT 98", D 2K; "B", D 2K; "LODGING - EXIT 98", D 2K; "A", D 2K;



LGX30-83WB;
6.0" Radius, 2.0" Border, White on Blue;
"GAS - EXIT 83", D 2K; " - EXIT 83", D 2K;

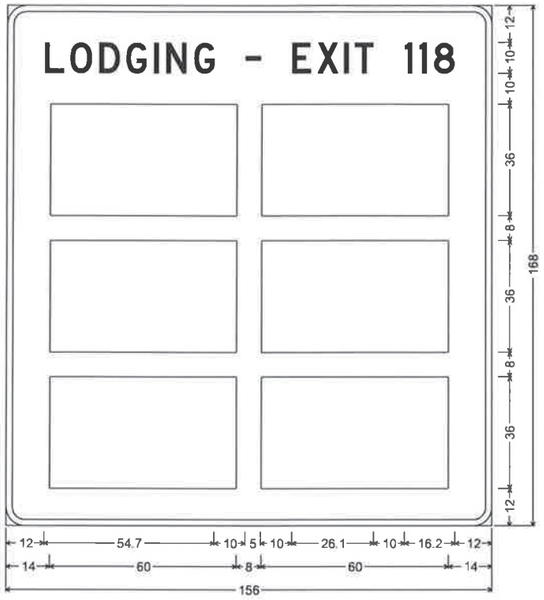


LF30-118EB;
6.0" Radius, 2.0" Border, White on Blue;
"FOOD - EXIT 118", D 2K;

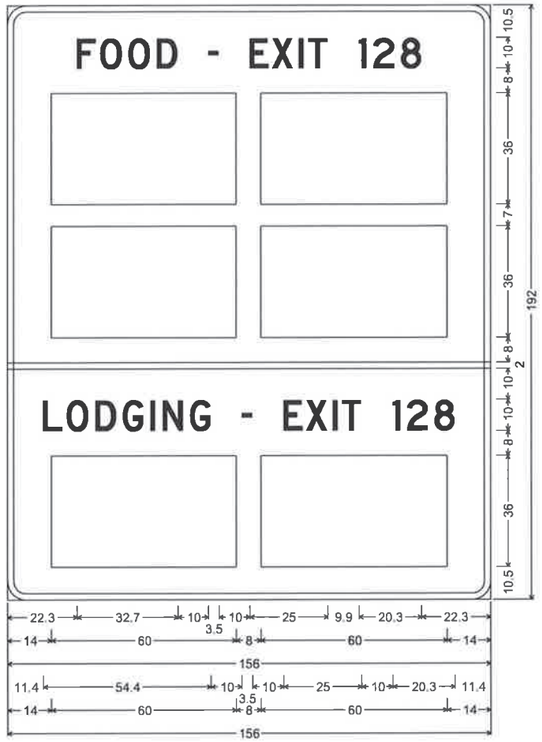


SIGN LAYOUT SHEET

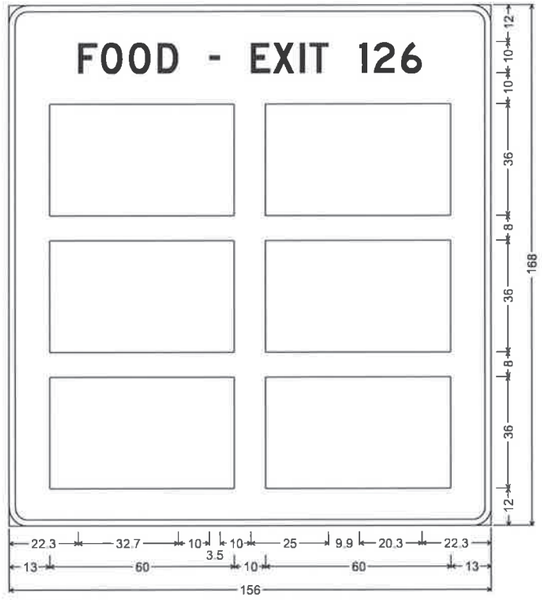
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	70	105
		SIGN LAYOUT SHEET				



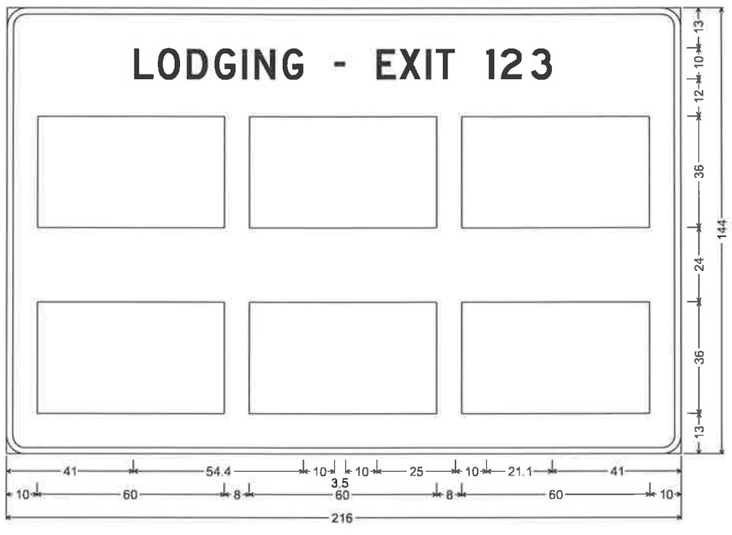
LL30-118EB;
6.0" Radius, 2.0" Border, White on Blue;
"LODGING - EXIT 118", D;



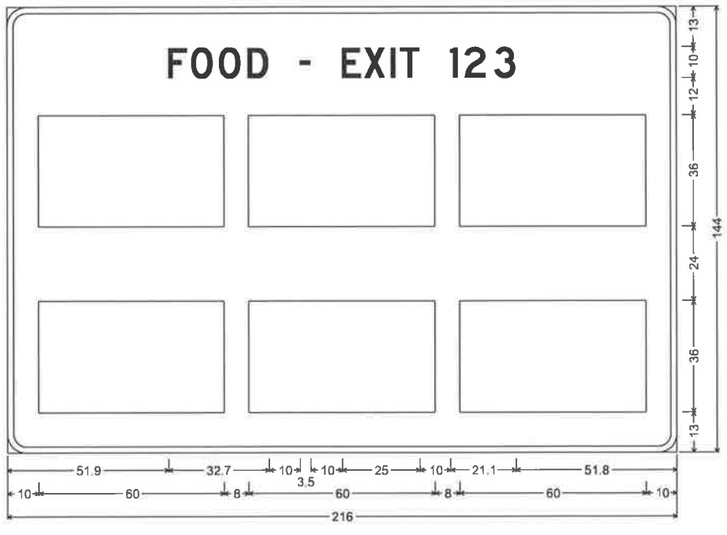
LFL30-128EB;
6.0" Radius, 2.0" Border, While on Blue;
"FOOD - EXIT 128", D 2K; "LODGING - EXIT 128", D 2K;



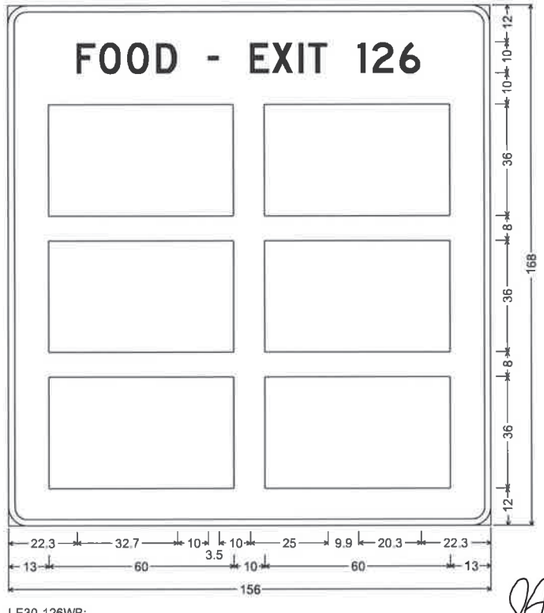
LF30-126WB;
6.0" Radius, 2.0" Border, White on Blue;
"FOOD - EXIT 126", D 2K;



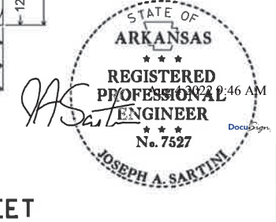
LL30-123EB ;
6.0" Radius, 2.0" Border, White on Blue;
"LODGING - EXIT 123", D 2K;



LF30-123EB ;
6.0" Radius, 2.0" Border, White on Blue;
"FOOD - EXIT 123", D 2K;

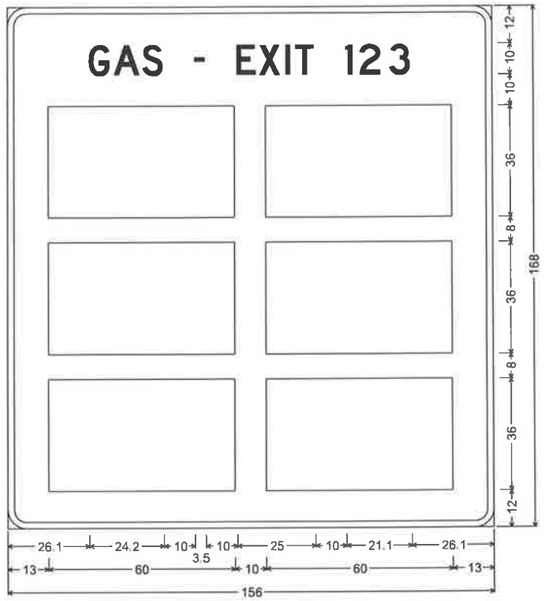


LF30-126WB;
6.0" Radius, 2.0" Border, White on Blue;
"FOOD - EXIT 126", D 2K;

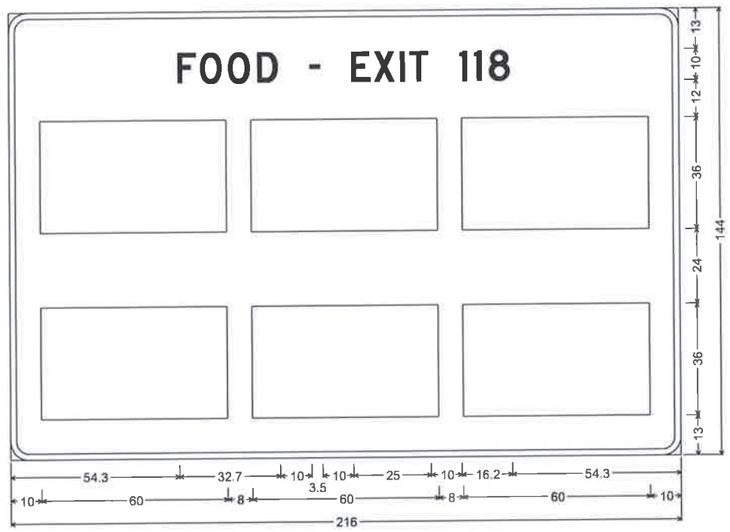


SIGN LAYOUT SHEET

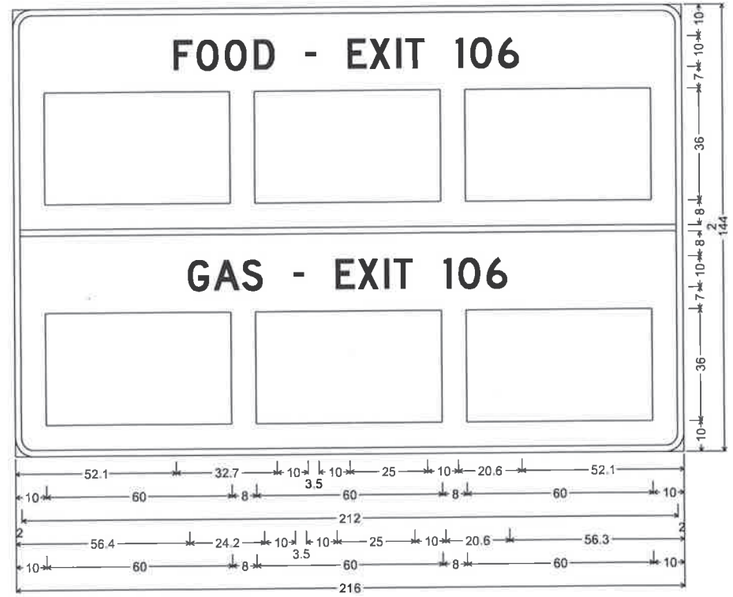
DATE REVISED	DATE REVISED	F(O)RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	71	105
		SIGN LAYOUT SHEET				



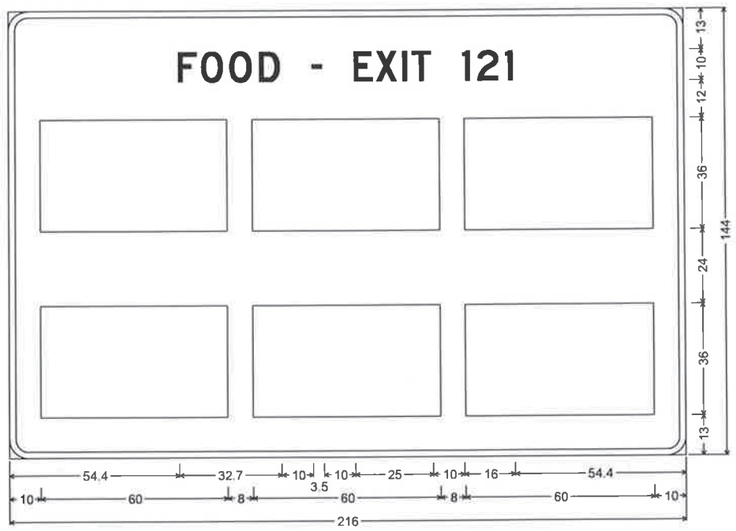
LG30-123WB;
6.0" Radius, 2.0" Border, White on Blue;
"GAS - EXIT 123", D 2K;



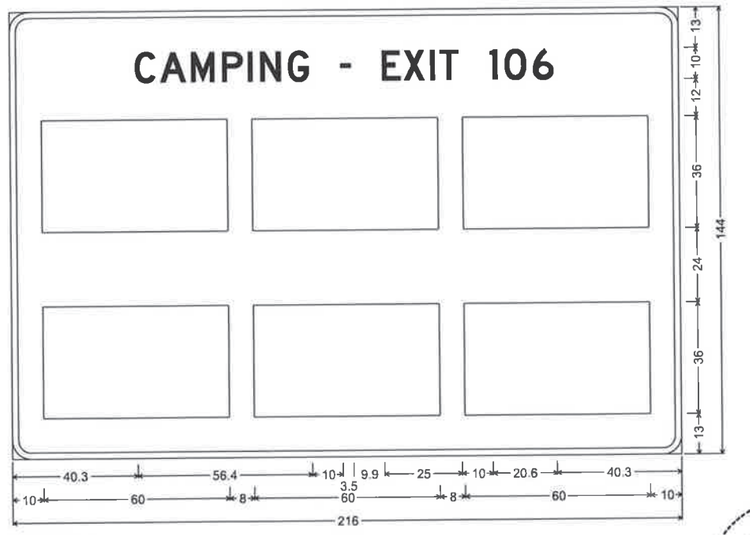
LF30-118WB ;
6.0" Radius, 2.0" Border, White on Blue;
"FOOD - EXIT 118", D 2K;



LFG30-106WB;
6.0" Radius, 2.0" Border, White on Blue;
"FOOD - EXIT 106", D 2K; "GAS - EXIT 106", D 2K;



LF30-121WB;
6.0" Radius, 2.0" Border, White on Blue;
"FOOD - EXIT 121", D 2K;

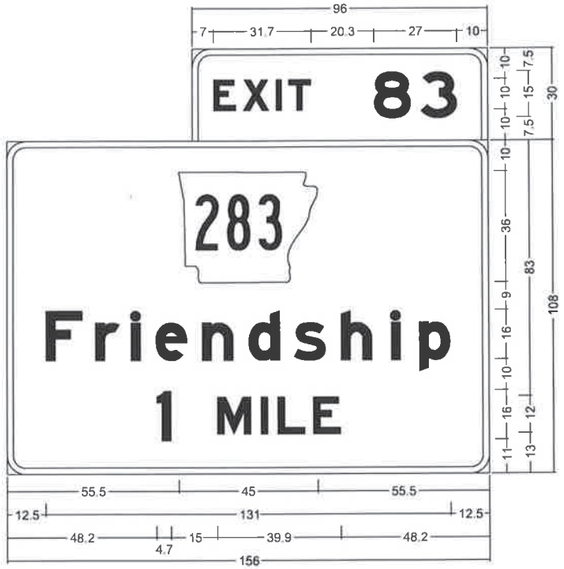


LC30-106WB;
6.0" Radius, 2.0" Border, White on Blue;
"CAMPING - EXIT 106", D 2K;

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
Aug 1, 2022 9:46 AM

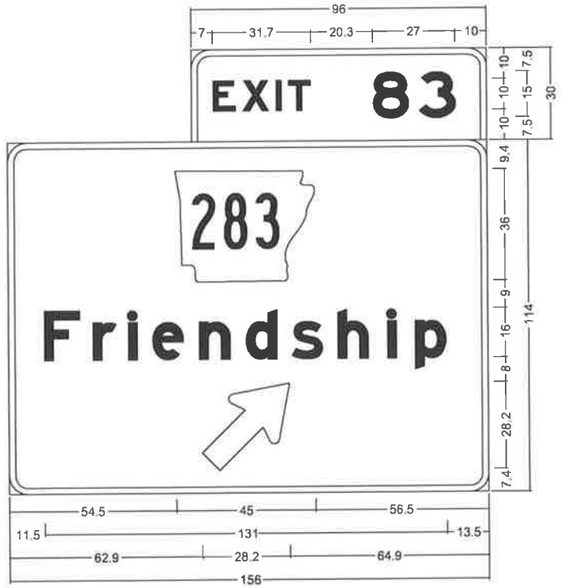
SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	72	105
		SIGN LAYOUT SHEET				



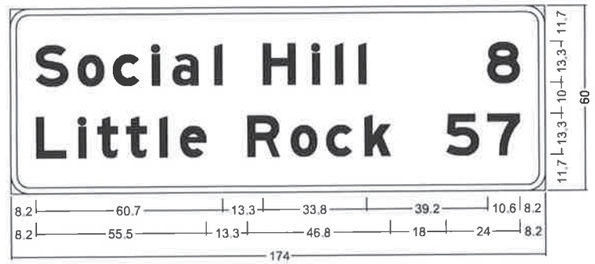
ML30-83-3EB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "83", E Mod;

6.0" Radius, 2.0" Border, White on Green;
M1-6; "Friendship", E Mod; "1", E Mod; "MILE", E Mod;

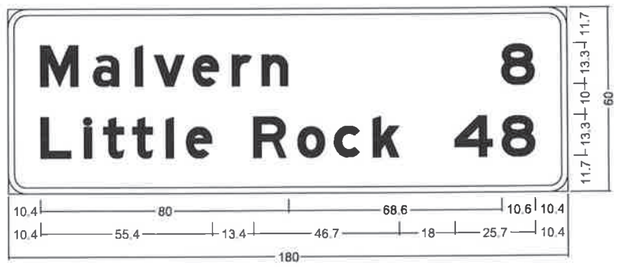


ML30-83-4EB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "83", E Mod;

6.0" Radius, 2.0" Border, White on Green;
M1-6; "Friendship", E Mod; Standard Arrow Custom 35.8" X 21.6" 45°;



ML30-91-1EB;
6.0" Radius, 2.0" Border, White on Green;
"Social Hill", E Mod; "8", E Mod; "Little Rock", E Mod; "57", E Mod;



ML30-97-1EB;
6.0" Radius, 2.0" Border, White on Green;
"Malvern", E Mod; "8", E Mod; "Little Rock", E Mod; "48", E Mod;



ML30-91-2EB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "91", E Mod;

6.0" Radius, 2.0" Border, White on Green;
M1-6; "Social Hill", E Mod; "1", E Mod; "MILE", E Mod;



ML30-91-3EB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "91", E Mod;

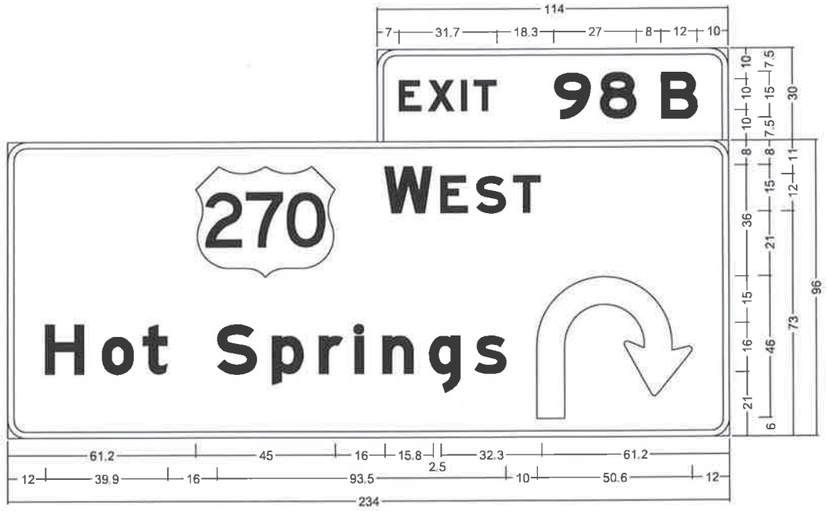
6.0" Radius, 2.0" Border, White on Green;
"Social Hill", E Mod; Arrow Custom - 35.8" 45°;

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

Aug 4 2022 9:46 AM

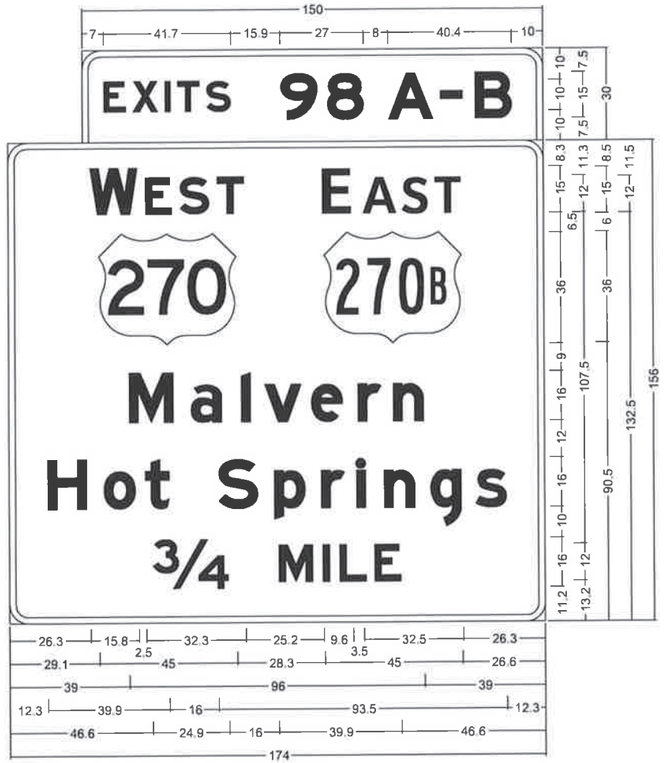
SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	73	105
		SIGN LAYOUT SHEET				



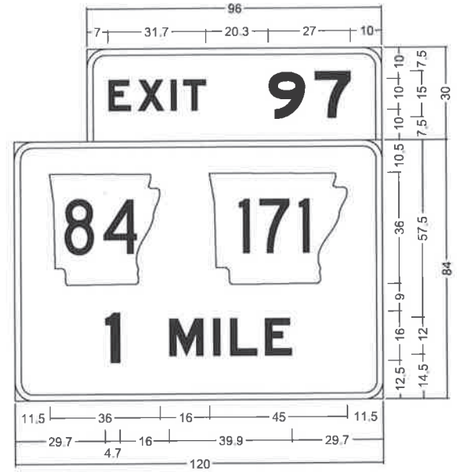
ML30-98B-1EB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "98", E Mod; "B", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"W", E Mod; "EST", E Mod; "Hot Springs", E Mod; Turn Arrow Custom;



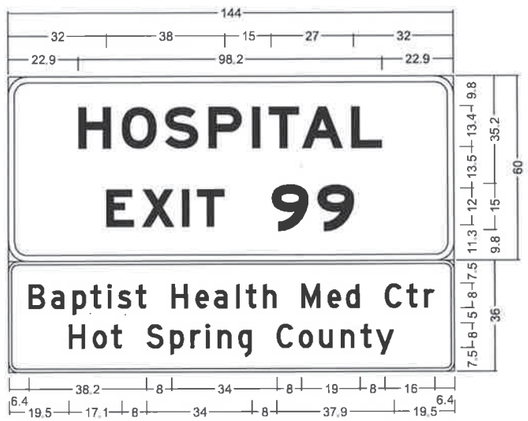
ML30-98AB-1EB ;
6.0" Radius, 2.0" Border, White on Green;
"EXITS", E Mod; "98", E Mod; "A-B", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"W", E Mod; "EST", E Mod; "E", ClearviewHwy-5-W-R;
"AST", ClearviewHwy-5-W-R; M1-4; "Malvern", E Mod; "Hot Springs", E Mod;
"3/4", E Mod; "MILE", E Mod;



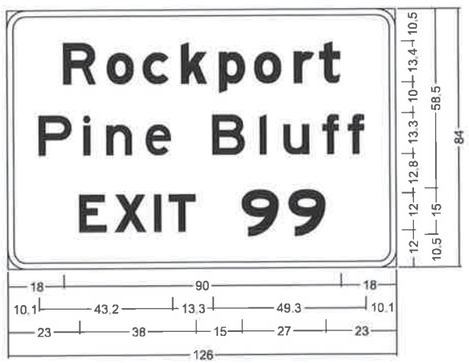
ML30-97-3EB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "97", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"1", E Mod; "MILE", E Mod;

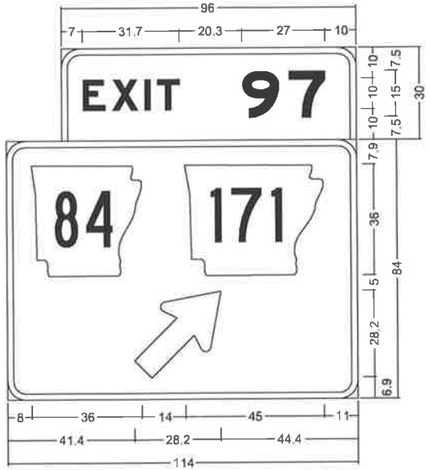


ML30-99-3EB;
6.0" Radius, 2.0" Border, White on Blue;
"HOSPITAL", E Mod; "EXIT", E Mod; "99", E Mod;

3.0" Radius, 1.0" Border, White on Blue;
"Baplist Health Med Ctr", D; "Hot Spring County", D;



ML30-99-2EB ;
6.0" Radius, 2.0" Border, White on Green;
"Rockport", E Mod; "Pine Bluff", E; "EXIT", E Mod;
"99", E Mod;



ML30-97-5EB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "97", E Mod;

6.0" Radius, 2.0" Border, White on Green;
M1-6; M1-6;
Standard Arrow Custom 35.8" X 21.6" 45°;

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
Aug 4 2022 9:47 AM

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	74	105
		SIGN LAYOUT SHEET				



ML30-99-1EB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "99", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"E", E Mod; "AST", E Mod; "Malvern", E Mod; "Sheridan", E Mod;
"1", E Mod; "MILE", E Mod;



ML30-99-5EB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-5-W-R; "99", E Mod;

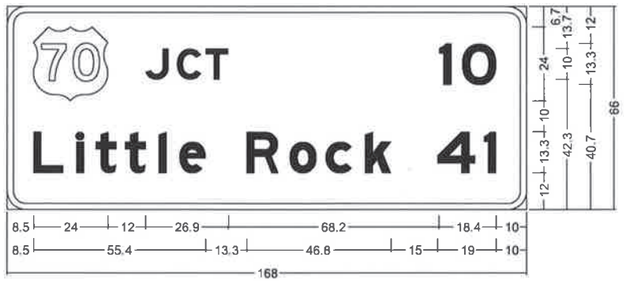
6.0" Radius, 2.0" Border, White on Green;
"E", E Mod; "AST", E Mod; "Malvern", E Mod; "Sheridan", E Mod;
Arrow Custom - 35.8" 45°;



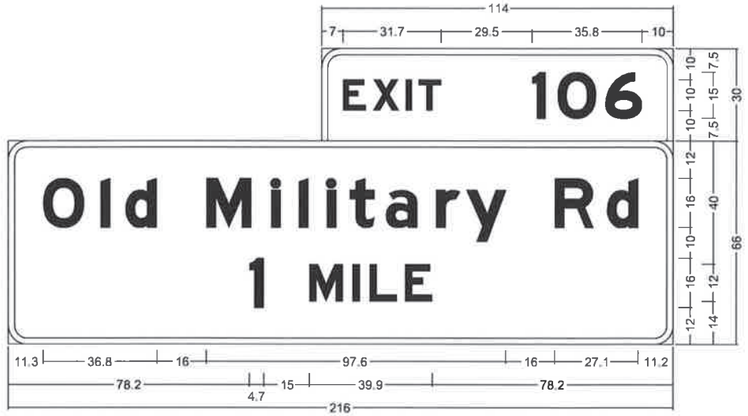
ML30-99-2WB;
6.0" Radius, 2.0" Border, White on Green;
"Malvern", E Mod; "11", E Mod; "Texarkana", E Mod; "107", E Mod;



ML30-99-3WB;
6.0" Radius, 2.0" Border, White on Green;
"Malvern", E Mod; "NEXT", E Mod; "3", E Mod; "EXITS", E Mod;



ML30-106-1EB;
6.0" Radius, 2.0" Border, White on Green;
"JCT", E Mod; "10", E Mod; "Little Rock", E Mod; "41", E Mod;

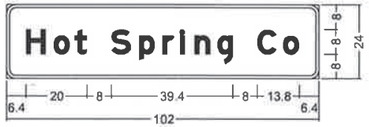


ML30-106-2EB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "106", E Mod;

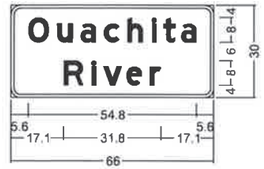
6.0" Radius, 2.0" Border, White on Green;
"Old Military Rd", E Mod; "1", E Mod; "MILE", E Mod;



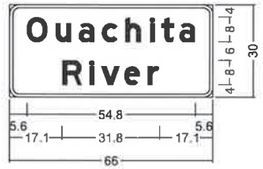
ML30-128-1EB;
3.0" Radius, 1.0" Border, White on Green;
"Pulaski Co", E Mod;



ML30-99-1WB;
3.0" Radius, 1.0" Border, White on Green;
"Hot Spring Co", E Mod;



ML30-98-1EB;
3.0" Radius, 1.0" Border, White on Green;
"Ouachita", E Mod;
"River", E Mod;

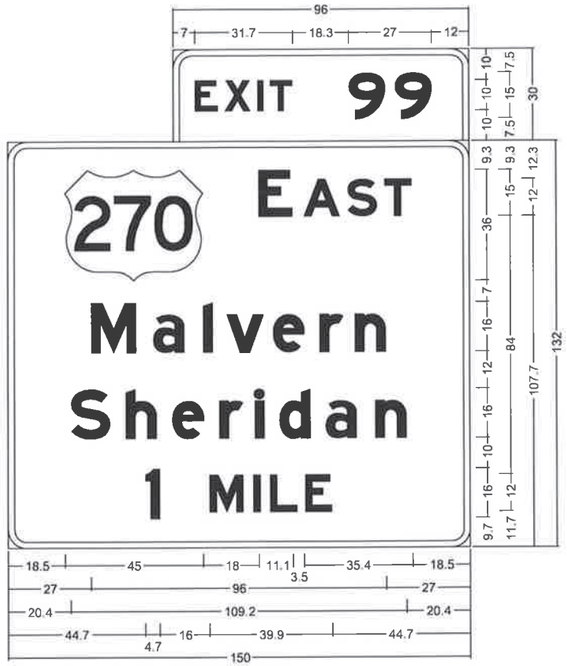


ML30-97-3WB;
3.0" Radius, 1.0" Border, White on Green;
"Ouachita", E Mod;
"River", E Mod;



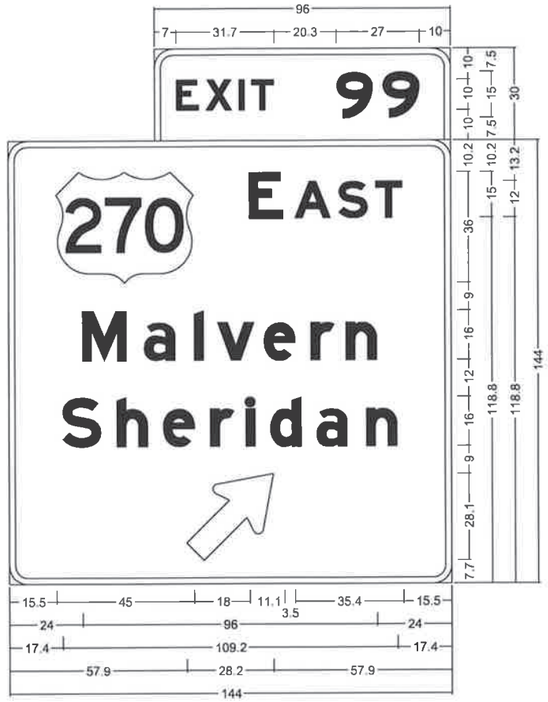
SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.AID. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	75	105
		SIGN LAYOUT SHEET				



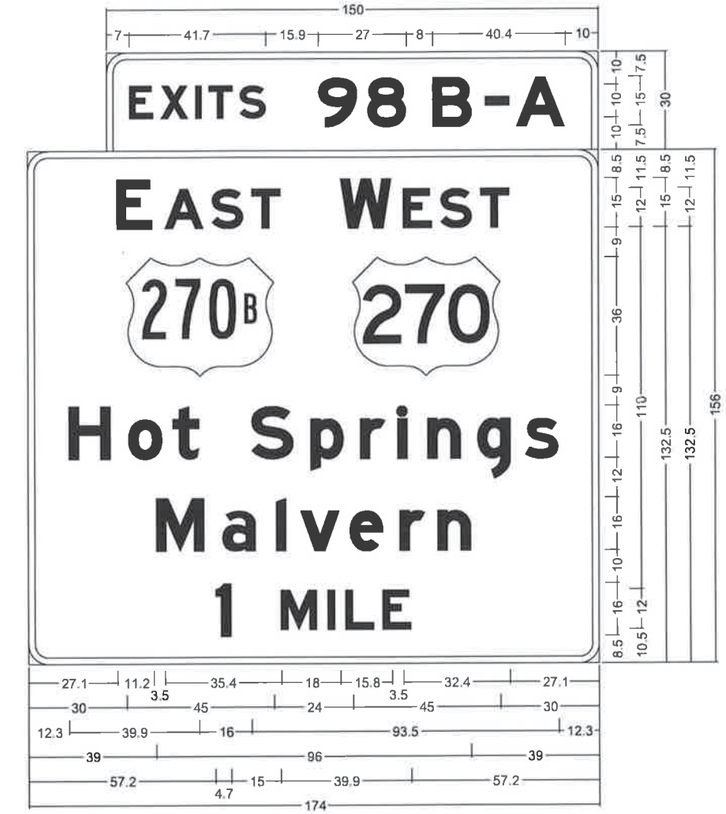
ML30-99-4WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "99", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"E", E Mod; "AST", E Mod; "Malvern", E Mod; "Sheridan", E Mod;
"1", E Mod; "MILE", E Mod;



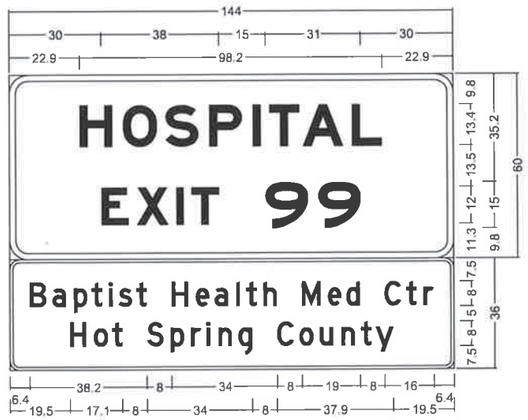
ML30-99-7WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "99", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"E", E Mod; "AST", E Mod; "Malvern", E Mod; "Sheridan", E Mod;
Arrow Custom - 35.8" 45°;



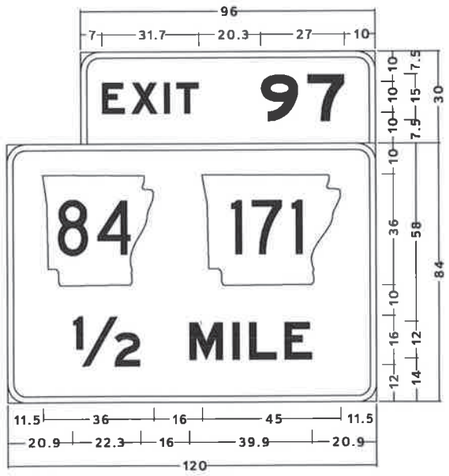
ML30-98BA-1WB ;
6.0" Radius, 2.0" Border, White on Green;
"EXITS", E Mod; "98", E Mod; "B-A", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"E", E Mod; "AST", E Mod; "W", E Mod; "EST", E Mod; M1-4;
"Hot Springs", E Mod; "Malvern", E Mod; "1", E Mod; "MILE", E Mod;



ML30-99-5WB;
6.0" Radius, 2.0" Border, White on Blue;
"HOSPITAL", E Mod; "EXIT", E Mod; "99", F;

3.0" Radius, 1.0" Border, White on Blue;
"Baptist Health Med Ctr", D; "Hot Spring County", D;



ML30-97-1WB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "97", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"½", E Mod; "MILE", E Mod;



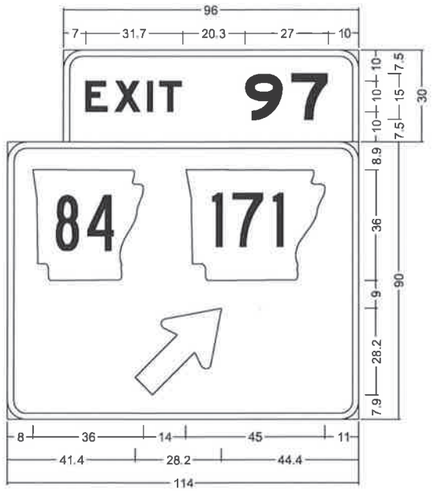
ML30-91-1WB;
6.0" Radius, 2.0" Border, White on Green;
"Social Hill", E Mod; "5", E Mod; "Texarkana", E Mod; "99", E Mod;

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

10/4/2022 9:47 AM

SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.AID. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	76	105
		SIGN LAYOUT SHEET				



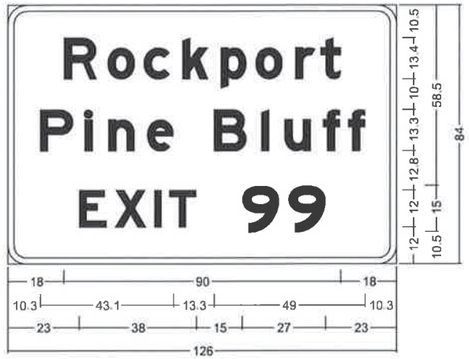
ML30-97-4WB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "97", E Mod;

6.0" Radius, 2.0" Border, White on Green;
M1-6; M1-6;
Standard Arrow Custom 35.8" X 21.6" 45°;



ML30-TIC-1WB;
3.0" Radius, 1.0" Border, Black on Yellow;
"LEFT", E Mod 2K;

6.0" Radius, 2.0" Border, White on Blue;
"REST AREA", E Mod 2K;
"Tourist Info", E Mod 2K; "Center", E Mod 2K;
"1", E Mod 2K; "MILE", E Mod 2K;



ML30-99-6WB ;
6.0" Radius, 2.0" Border, White on Green;
"Rockport", E Mod; "Pine Bluff", E Mod; "EXIT", E Mod;
"99", E Mod;

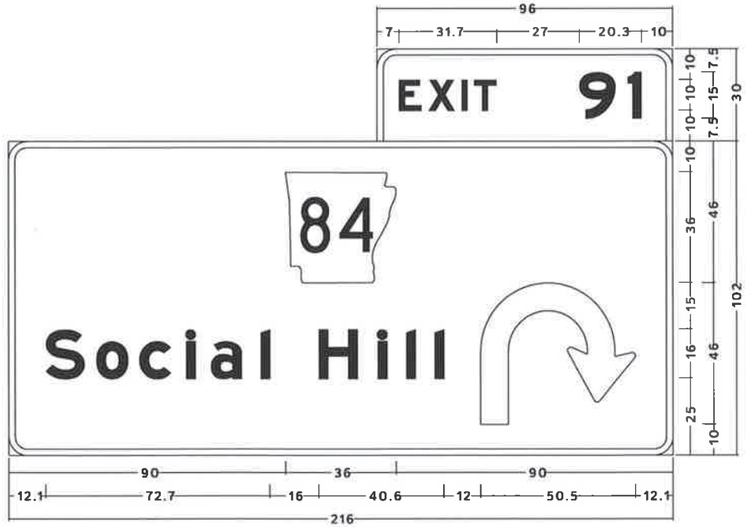


EXIT TIC-WB;
6.0" Radius, 2.0" Border, White on Blue;
"REST AREA", E Mod 2K 80% spacing;
"Tourist Info", E Mod 2K;
"Center", E Mod 2K;
Arrow Custom - 24.0" 135°;



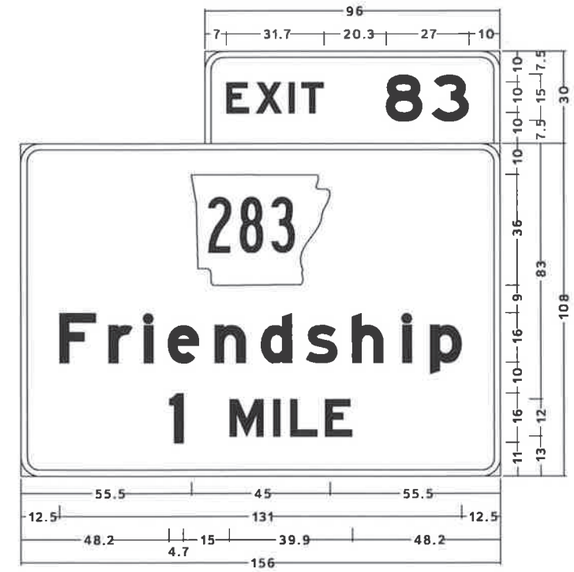
ML30-91-2WB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "91", E Mod;

6.0" Radius, 2.0" Border, White on Green;
M1-6; "Social Hill", E Mod; "1", E Mod; "MILE", E Mod;



ML30-91-3WB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "91", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Social Hill", E Mod; Turn Arrow Custom;



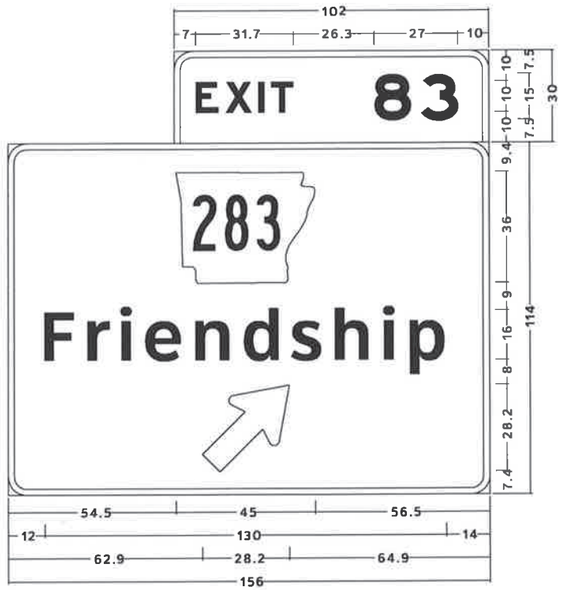
ML30-83-2WB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "83", E Mod;

6.0" Radius, 2.0" Border, White on Green;
M1-6; "Friendship", E Mod; "1", E Mod; "MILE", E Mod;

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

DocuSigned by: Joseph A. Sartini
DATE: 1/2022 9:47 AM

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	77	105
		SIGN LAYOUT SHEET				

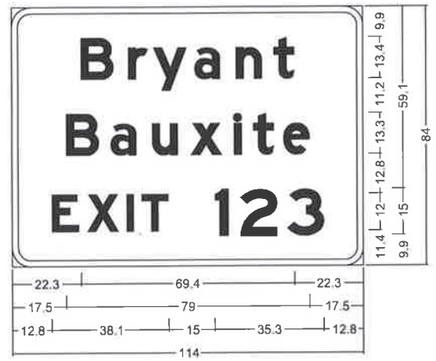


ML30-83-3WB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "83", E Mod;

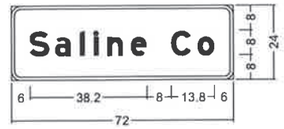
6.0" Radius, 2.0" Border, White on Green;
M1-6; "Friendship", ClearviewHwy-5-W-R;
Standard Arrow Custom 35.8" X 21.6" 45°;



ML30-78-1WB;
6.0" Radius, 2.0" Border, White on Green;
"Arkadelphia", E Mod; "9", E Mod; "Texarkana", E Mod; "84", E Mod;



ML30-123-2EB;
6.0" Radius, 2.0" Border, White on Green;
"Bryant", E Mod; "Bauxite", E Mod; "EXIT", E Mod;
"123", E Mod;

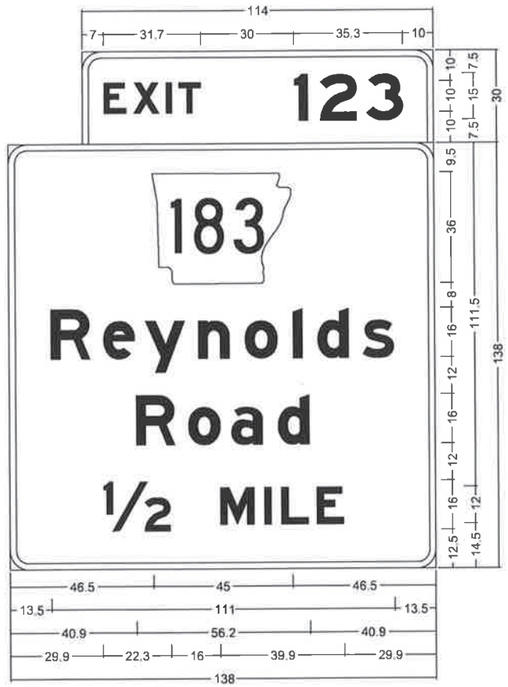


ML30-124-1WB;
3.0" Radius, 1.0" Border, White on Green;
"Saline Co", E Mod;



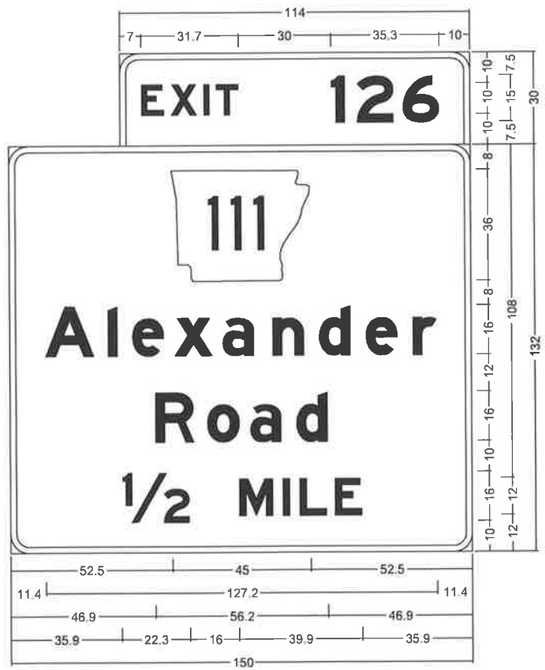
ML30-121-2EB;
6.0" Radius, 2.0" Border, While on Green;
"EXIT", E Mod; "121", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Alcoa", E Mod; "Road", E Mod; "½", E Mod;
"MILE", E Mod;



ML30-123-3EB;
6.0" Radius, 2.0" Border, While on Green;
"EXIT", E Mod; "123", E Mod;

6.0" Radius, 2.0" Border, While on Green;
"Reynolds", E Mod; "Road", E Mod; "½", E Mod;
"MILE", E Mod;



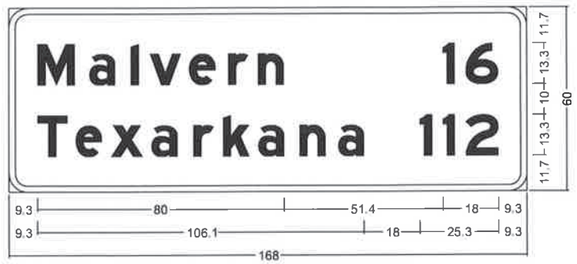
ML30-126-3WB;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "126", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Alexander", E Mod; "Road", E Mod; "½", E Mod; "MILE", E Mod;

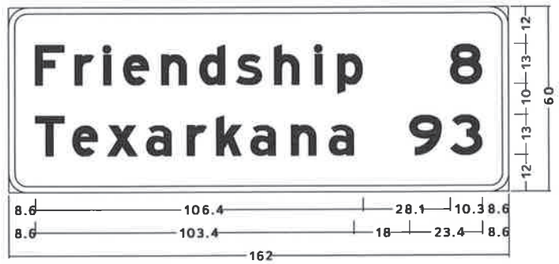
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
4/6/2022 9:48 AM

SIGN LAYOUT SHEET

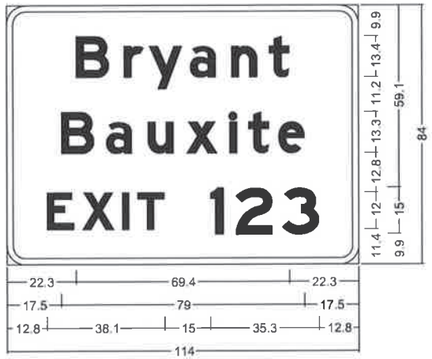
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	78	105
		SIGN LAYOUT SHEET				



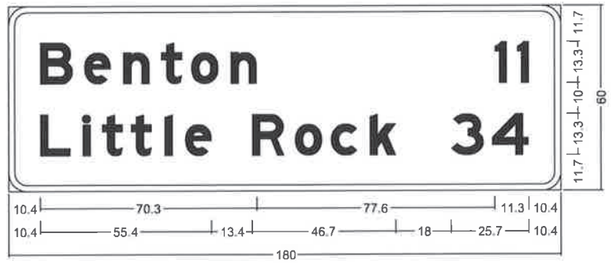
ML30-106-1WB;
6.0" Radius, 2.0" Border, White on Green;
"Malvern", E Mod; "16", E Mod; "Texarkana", E Mod; "112", E Mod;



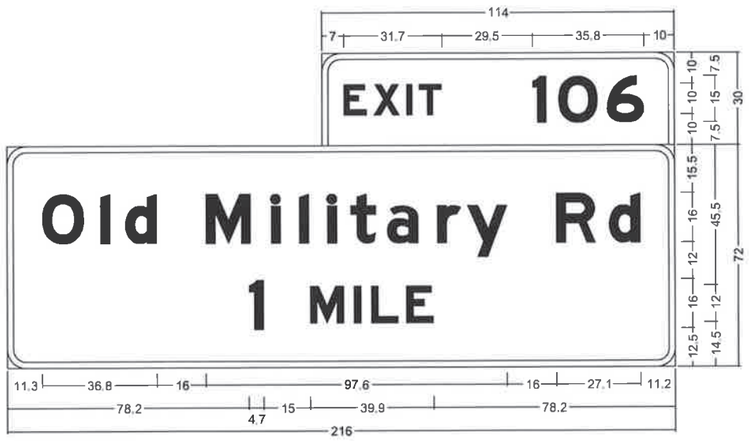
ML30-83-1WB;
6.0" Radius, 2.0" Border, White on Green;
"Friendship", E Mod; "8", E Mod; "Texarkana", E Mod; "93", E Mod;



ML30-123-1WB;
6.0" Radius, 2.0" Border, White on Green;
"Bryant", E Mod; "Bauxite", E Mod; "EXIT", E Mod;
"123", E Mod;

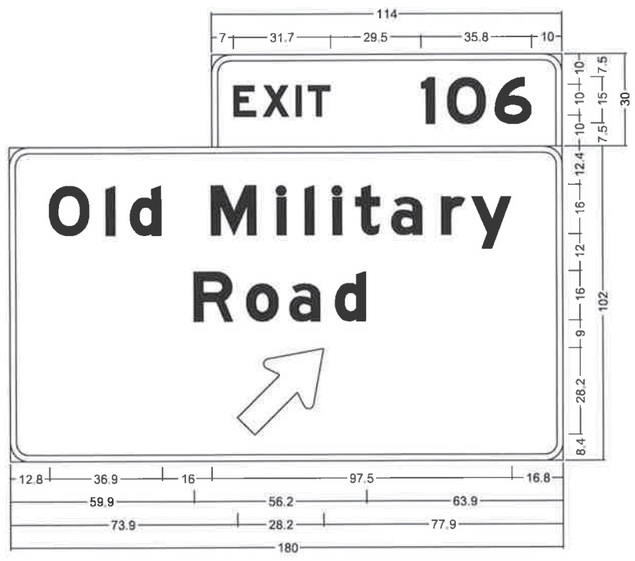


ML30-111-1EB;
6.0" Radius, 2.0" Border, White on Green;
"Benton", E Mod; "11", E Mod; "Little Rock", E Mod; "34", E Mod;



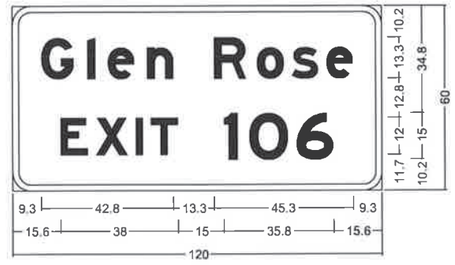
ML30-106-2WB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "106", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Old Military Rd", E Mod; "1", E Mod; "MILE", E Mod;



ML30-106-4WB ;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod; "106", E Mod;

6.0" Radius, 2.0" Border, White on Green;
"Old Military", E Mod; "Road", E Mod; Standard Arrow Custom 35.8" X 21.6" 45°;



ML30-106-3WB ;
6.0" Radius, 2.0" Border, White on Green;
"Glen Rose", E Mod; "EXIT", E Mod; "106", E Mod;

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
10/4/2012 9:48 AM

SIGN LAYOUT SHEET

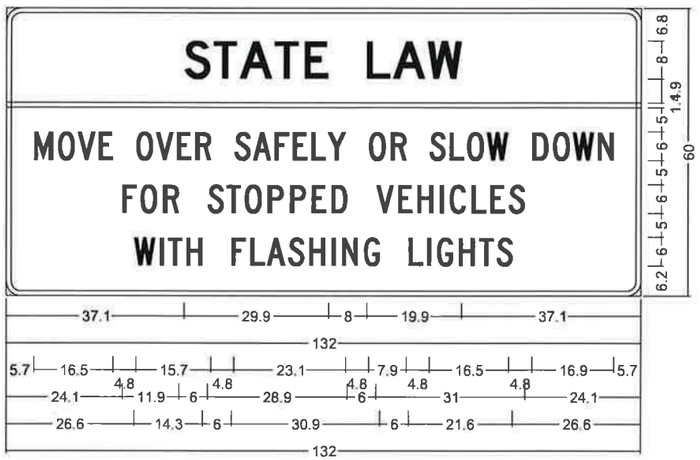
DATE REVISED	DATE REVISED	FED.RD. DST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	79	105
		SIGN LAYOUT SHEET				



ML30-97-4EB ;
6.0" Radius, 2.0" Border, White on Brown;
"Lake Catherine", E Mod; "State Park", E Mod; "EXIT", E Mod; "97", E Mod; M1-1;



ML30-97-2WB ;
6.0" Radius, 2.0" Border, White on Brown;
"Lake Catherine", E Mod; "State Park", E Mod; "EXIT", E Mod; "97", E Mod; M1-1;



ML30-124-2WB;
3.0" Radius, 1.0" Border, Black on White;
"STATE LAW", D 2K;
"MOVE OVER SAFELY OR SLOW DOWN", C 2K 80% spacing;
"FOR STOPPED VEHICLES", C 2K; "WITH FLASHING LIGHTS", C 2K;

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

9/14/2022 9:48 AM

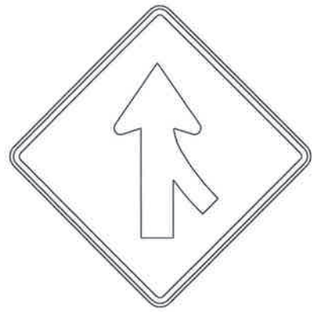
SIGN LAYOUT SHEET

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	80	105
		SIGN LAYOUT SHEET				



W8-13
48"X48"

SS30 - 62.178WB
SS30 - 83.922EB
SS30 - 58.683WB
SS30 - 84.912EB
SS30 - 57.701WB
SS30 - 89.473EB
SS30 - 53.121WB
SS30 - 91.558EB
SS30 - 50.937WB
SS30 - 93.344EB
SS30 - 49.324WB
SS30 - 96.893EB
SS30 - 45.641EB
SS30 - 103.523EB
SS30 - 39.099WB
SS30 - 104.416EB
SS30 - 38.265WB
SS30 - 105.121EB
SS30 - 37.483WB
SS30 - 121.148EB
SS30 - 21.492WB
SS30 - 127.325EB
SS30 - 15.309WB
SS30 - 14.819WB



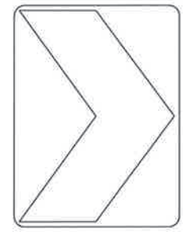
W4-1R
48"X48"

SS30 - 60.568WB
SS30 - 82.781EB
SS30 - 52.056WB
SS30 - 91.182EB
SS30 - 46.430WB
SS30 - 96.806EB
SS30 - 45.142WB
SS30 - 98.115EB
SS30 - 43.543WB
SS30 - 99.830EB
SS30 - 36.830WB
SS30 - 106.571EB
SS30 - 116.950EB
SS30 - 119.446EB
SS30 - 22.572WB
SS30 - 121.580EB
SS30 - 20.188WB
SS30 - 123.243EB
SS30 - 18.675WB
SS30 - 124.925EB
SS30 - 16.870WB
SS30 - 126.551EB
SS30 - 15.020WB



W4-1L
48"X48"

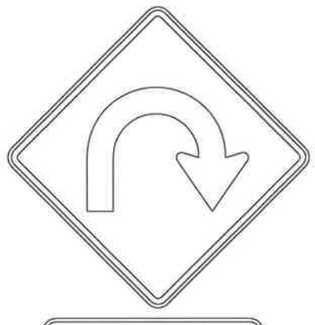
SS30 - 49.957WB
SS30 - 93.266EB



W1-8
36"X48"

SS30 - 93.092EB
SS30 - 93.137EB
SS30 - 93.182EB
SS30 - 93.227EB
SS30 - 93.272EB
SS30 - 93.317EB

W1-11R
48"X48"

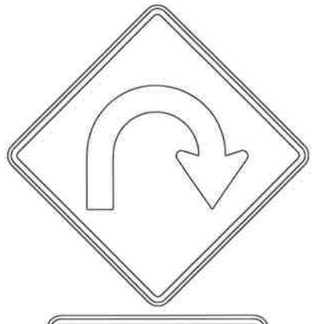


SS30 - 51.967WB

W13-2
48"X60"



W1-11R
48"X48"



SS30 - 98.022EB
SS30 - 45.033WB

W13-2
48"X60"





SS30 - 127.716EB

W3-5
48"X48"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

Aug 4 2022 9:48 AM

STANDARD SIGN ASSEMBLIES

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	81	105
		SIGN LAYOUT SHEET				



SS30 - 92.810EB

W13-2
48"X60"



SS30 - 49.708WB

W13-2
48"X60"



SS30 - 44.735WB

W13-3
48"X60"



SS30 - 117.583EB
SS30 - 22.318WB
SS30 - 119.937EB
SS30 - 23.136WB
SS30 - 120.546EB
SS30 - 20.926WB
SS30 - 122.075EB
SS30 - 17.285WB
SS30 - 16.633WB
SS30 - 126.231EB
SS30 - 127.199EB
SS30 - 15.360WB

SPECIAL
48"X60"



SS30 - 117.656EB
SS30 - 119.838EB
SS30 - 20.807WB
SS30 - 122.106EB
SS30 - 17.331WB
SS30 - 127.117EB
SS30 - 15.594WB

R2-1
48"X60"

SS30 - 127.909EB

R2-1
48"X60"

M3-2i
36"X18"



M1-1
36"X36"

SS30 - 83.131EB
SS30 - 91.463EB
SS30 - 96.963EB
SS30 - 98.375EB
SS30 - 100.239EB
SS30 - 106.917EB
SS30 - 123.751EB
SS30 - 126.928EB

M3-4i
36"X18"



M1-1
36"X36"

SS30 - 60.942WB
SS30 - 52.407WB
SS30 - 46.833WB
SS30 - 45.369WB
SS30 - 43.878WB
SS30 - 37.216WB
SS30 - 32.594WB
SS30 - 20.617WB
SS30 - 17.238WB
SS30 - 15.397WB



R5-11
30"X24"

SS30 - 86.208EB
SS30 - 56.656WB
SS30 - 37.759WB
SS30 - 105.174EB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

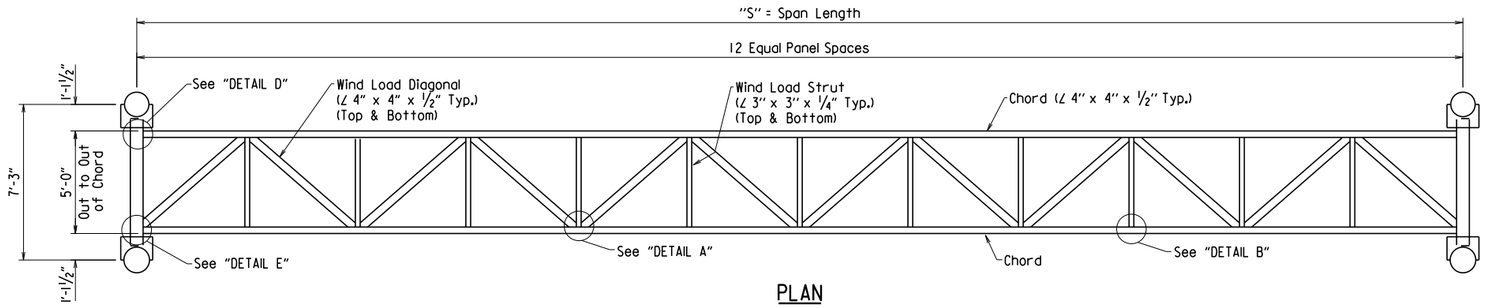
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STANDARD SIGN ASSEMBLIES

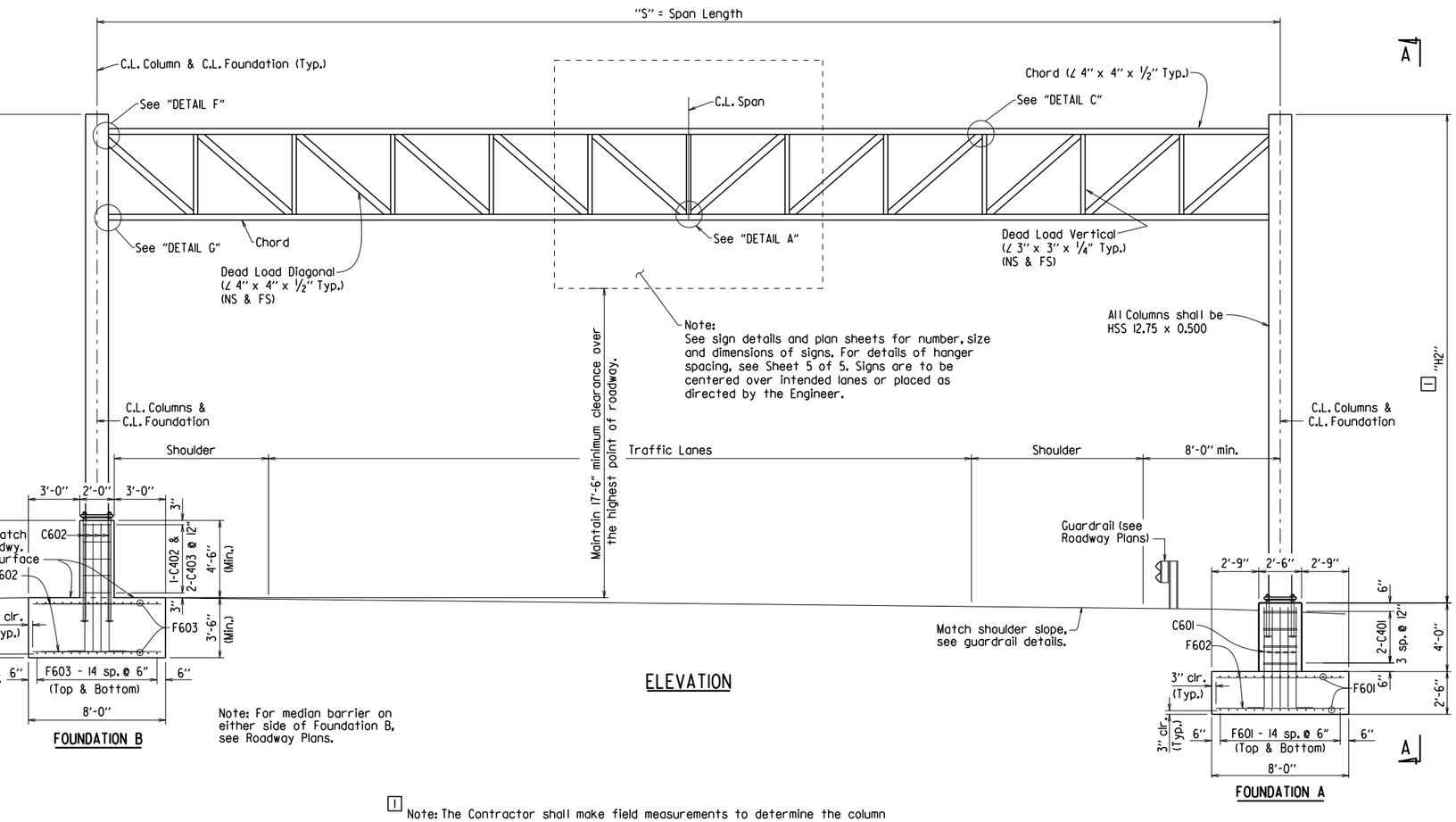
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		6	ARK.	061754	82	105
		SEE TABLE - OVERHEAD SIGN STR. - 65606				

Notes:
For "View A-A - Foundation A", see Sheet 2 of 5.

For "DETAIL A" thru "DETAIL G" and
"View A-A - Foundation B", see Sheet 3 of 5.



PLAN



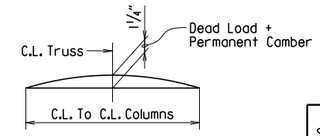
ELEVATION

FOUNDATION B

FOUNDATION A

Note: For median barrier on either side of Foundation B, see Roadway Plans.

[1] Note: The Contractor shall make field measurements to determine the column heights "H1" and "H2" that are required to maintain the minimum vertical clearance with the centerline of the sign located at the centerline of the truss. These column heights shall be shown on the shop drawings with a note stating that the Contractor has made the required field measurements. If the structure height ("H1" or "H2") exceeds 30'-0" contact the Engineer. The Contractor shall also verify that the variable span length (55'-0" to 69'-0") is sufficient to meet the minimum clearances and to fit the new structure to the existing and/or proposed conditions.



TRUSS CAMBER DIAGRAM

TABLE OF VARIABLES

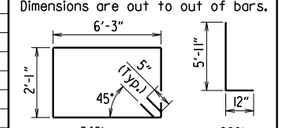
SIGN STRUCTURE	SPAN LENGTH "S"	FOUNDATION	
		MEDIAN	OUTSIDE SHOULDER
OH-030-60-89	67'-0"	B	A
OH-440-60-55	67'-6"	[2]	[2]

TABULAR DATA BY: BAB DATE: 7/13/2022
CHECKED BY: MCB DATE: 7/20/2022

[2] See Dwg. Nos. 65611 and 65612 for details of foundation.

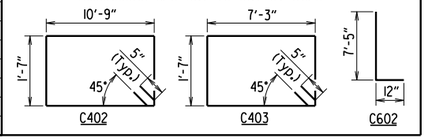
BAR LIST-FOUNDATION A

MARK	NO. REQ'D	LENGTH	P.D.	BENDING DIAGRAMS
C401	8	17'-2"	3"	Dimensions are out to out of bars.
C601	46	6'-9"	4½"	
F601	30	16'-6"	Str.	
F602	66	7'-6"	Str.	



BAR LIST-FOUNDATION B

MARK	NO. REQ'D	LENGTH	P.D.	BENDING DIAGRAMS
C402	5	25'-2"	3"	Dimensions are out to out of bars.
C403	10	18'-2"	3"	
C602	76	8'-3"	4½"	
F602	70	7'-6"	Str.	
F603	30	17'-6"	Str.	



APPROXIMATE QUANTITIES FOR FOUNDATION (FOR INFORMATION ONLY)

STRUCTURE	CLASS S CONCRETE (CU. YDS.)	REINFORCING STEEL (LBS.)	EXCAVATION (CU. YDS.)
FOUNDATION A	16.30	2,045	49
FOUNDATION B	24.67	2,724	30

STATE OF ARKANSAS
Jul 28 2022 4:26 PM
CHARLES R. ELLIS
LICENSED PROFESSIONAL ENGINEER
No. 9235
BRIDGE ENGINEER

SHEET 1 OF 5
DETAILS OF 55' TO 69'
STEEL OVERHEAD SIGN STRUCTURE

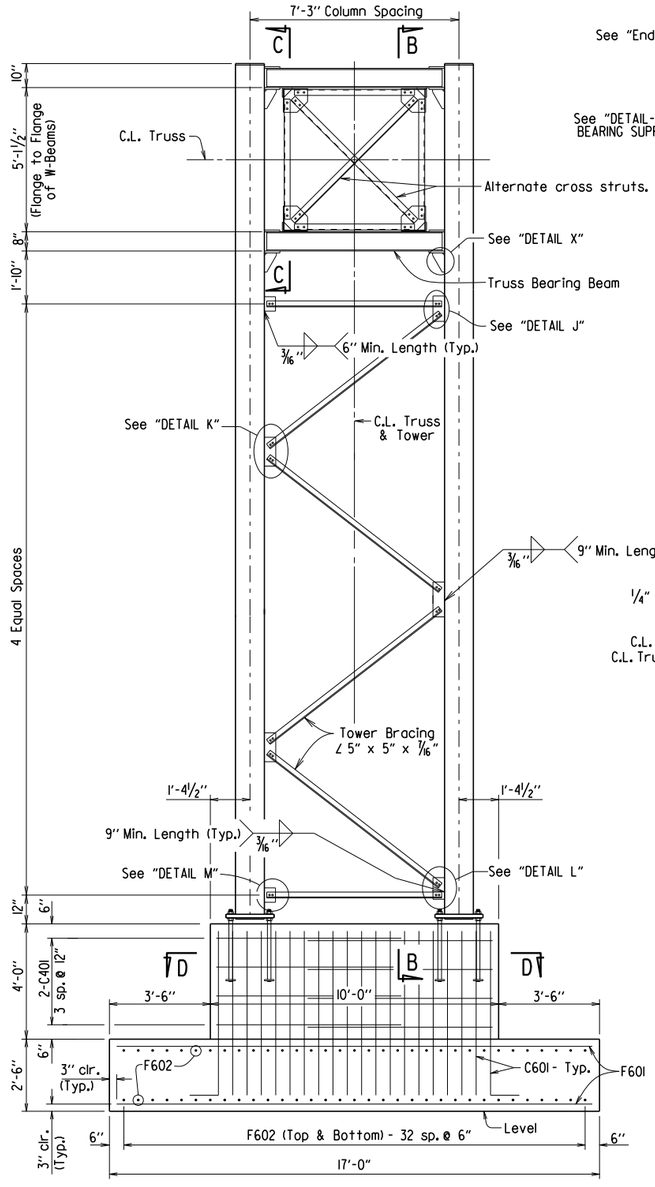
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: A.M.S. DATE: 7/24/15
CHECKED BY: ACP DATE: 4/8/16
DESIGNED BY: TMG DATE: 9/15
FILENAME: b061754_OH55-69.dgn
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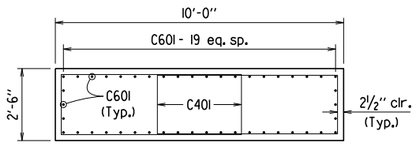
BRIDGE NO. SEE TABLE DRAWING NO. 65606

PRINT DATE: 7/28/2022

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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		SEE TABLE - OVERHEAD SIGN STR. - 65607				

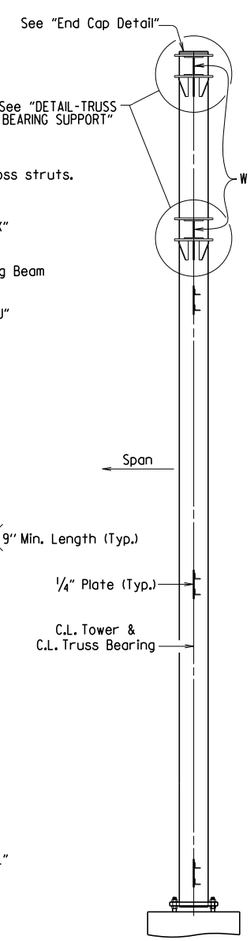


VIEW A-A - FOUNDATION A

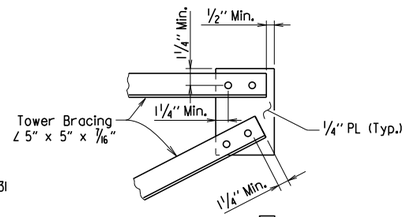


SECTION D-D

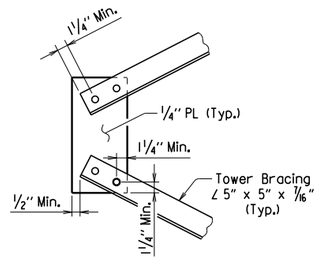
Note: For details of "View A-A - Foundation B", see Sheet 3 of 5.



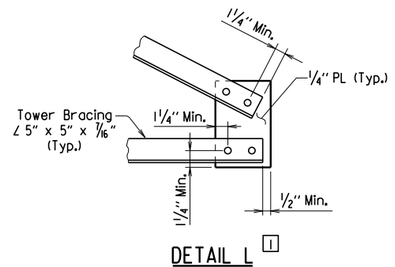
VIEW B-B



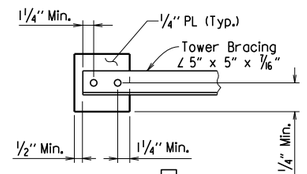
DETAIL J [1]



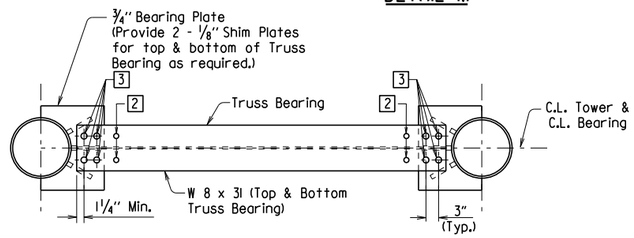
DETAIL K [1]



DETAIL L [1]



DETAIL M [1]

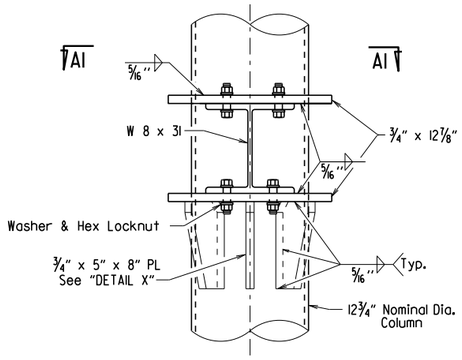


PLAN AT TRUSS BEARING

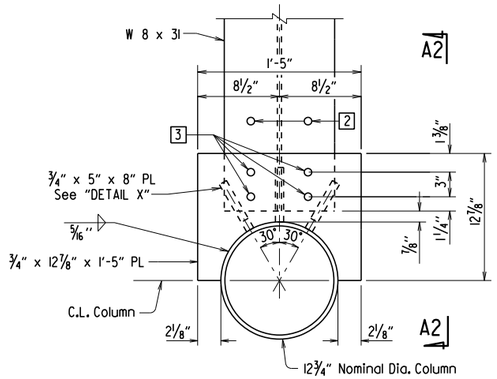
[1] Bolts shall be ¾" ø and open holes shall be 13/16 " ø. Minimum center to center bolt spacing shall be 2½". Dimensions shown are typical.

[2] Bolts shall be ⅝" ø. Provide 11/16 " x 2" slotted hole in gusset plate and chord angle. Use plate washer on gusset plate side. Provide 11/16 " ø holes in ¾" shim plate and top or bottom beam flanges as required.

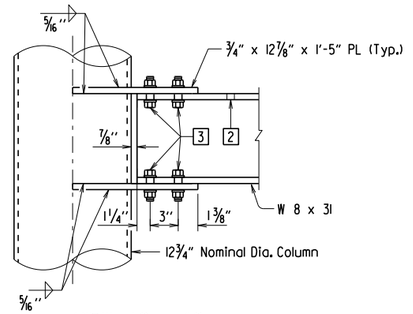
[3] Bolts shall be ⅝" ø. Provide 11/16 " ø holes at top and bottom beam flanges and connection plates.



DETAIL - TRUSS BEARING SUPPORT

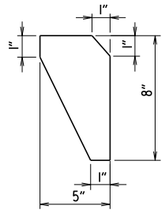


VIEW A1 - A1

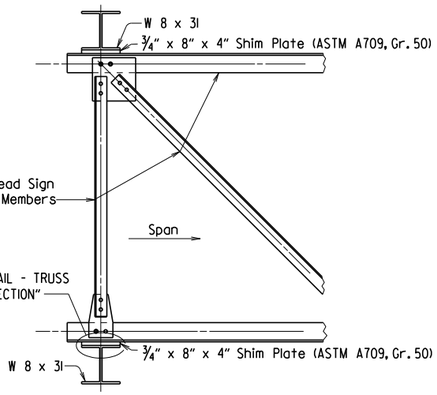


VIEW A2 - A2

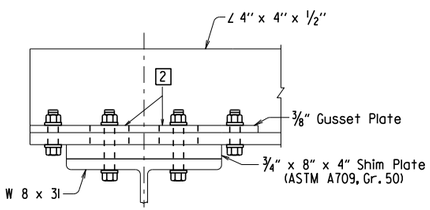
¾" x 5" x 8" Plate not shown for clarity



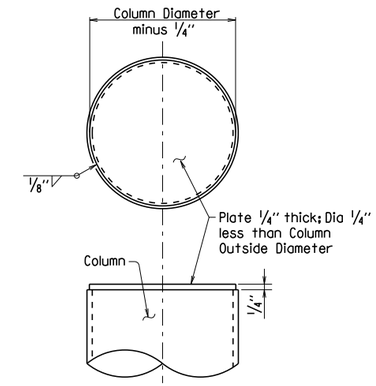
DETAIL X



VIEW C-C



DETAIL - TRUSS CONNECTION



END CAP DETAIL

STATE OF ARKANSAS
Jul 28 2022 4:26 PM
Charles R. Ellis
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 2 OF 5
DETAILS OF 55' TO 69'
STEEL OVERHEAD SIGN STRUCTURE

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

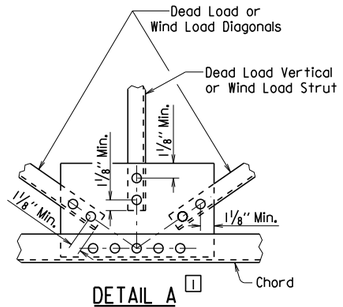
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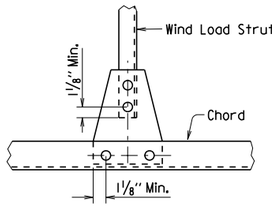
BRIDGE NO. SEE TABLE
DRAWING NO. 65607

PRINT DATE: 7/28/2022

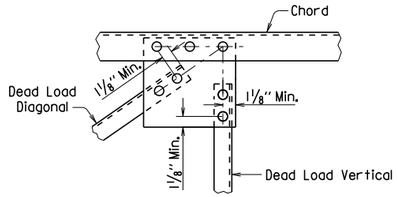
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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		SEE TABLE - OVERHEAD SIGN STR. - 65608				



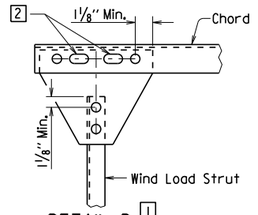
DETAIL A [1]



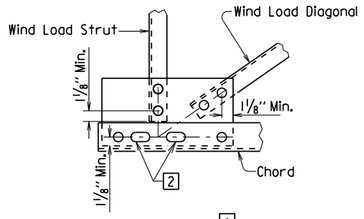
DETAIL B [1]



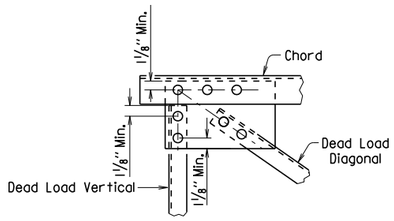
DETAIL C [1]



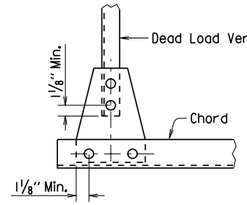
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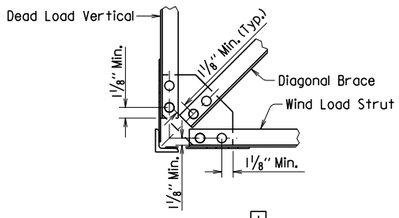
DETAIL E [1]



DETAIL F [1]

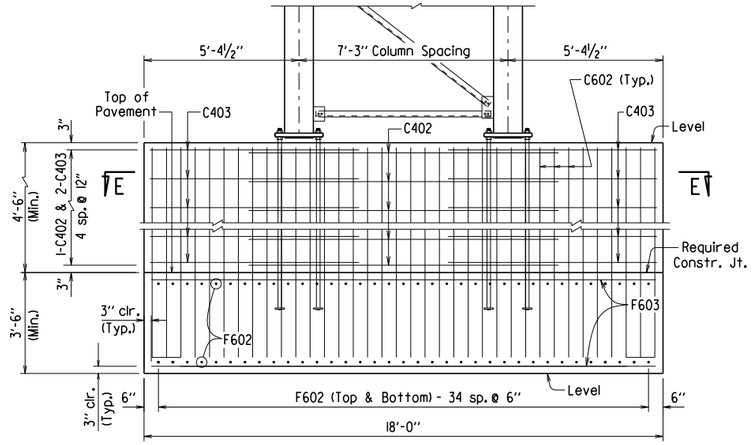


DETAIL G [1]

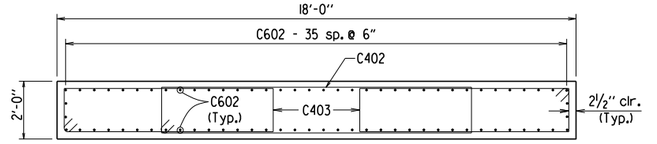


DETAIL N [1]

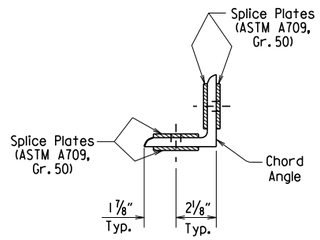
Note:
For details of column not shown, see
"View A-A - Foundation A" on Sheet 2 of 5.



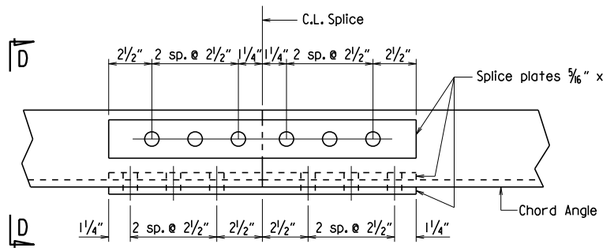
VIEW A-A - FOUNDATION B



SECTION E-E

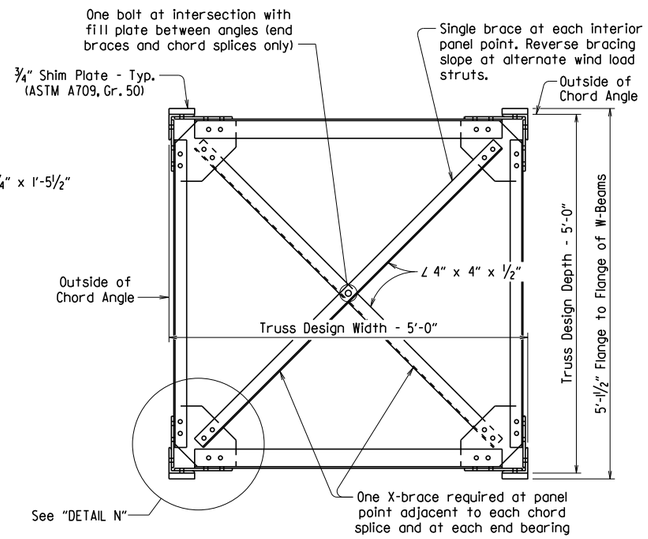


VIEW D-D



Note: Chord angles may be spliced in convenient lengths for galvanizing and sign placement.

CHORD SPLICE [3]



TRUSS SECTION

Note: Unless otherwise noted, thickness of all Gusset Plates shall be ⅜".

[1] Bolts shall be ⅝" ø and open holes shall be 11⁄16 " ø. Minimum center to center bolt spacing shall be 2¼". Dimensions shown are typical.

[2] Bolts shall be ⅝" ø. Provide 11⁄16 " x 2" slotted hole in gusset plate and chord angle. Use plate washer on gusset plate side. Clearance between end of slot and adjacent bolt hole shall be no less than 1¼".

[3] Bolts shall be ¾" ø and open holes shall be 13⁄16 " ø.

STATE OF ARKANSAS
Jul 28 2022 4:26 PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 3 OF 5
DETAILS OF 55' TO 69'
STEEL OVERHEAD SIGN STRUCTURE

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

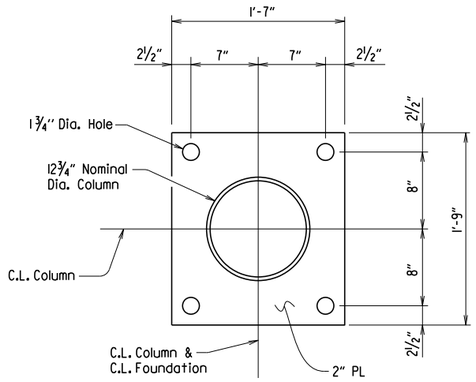
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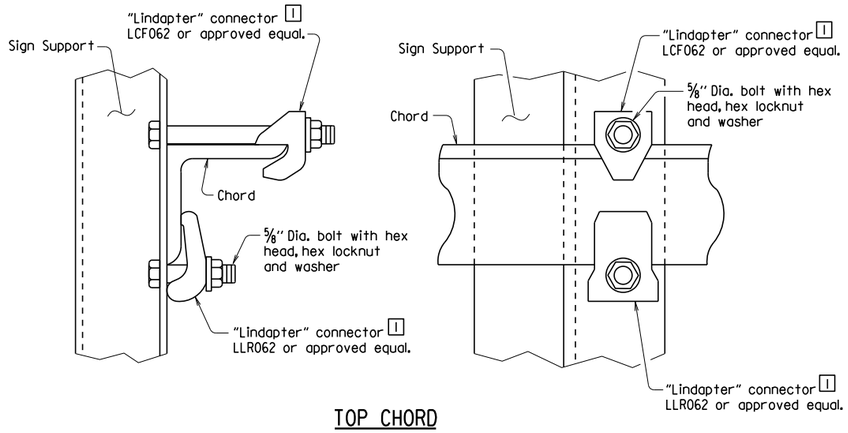
BRIDGE NO. SEE TABLE DRAWING NO. 65608

PRINT DATE: 7/28/2022

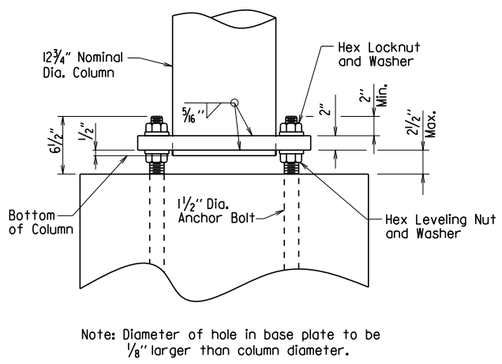
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	85	105
		SEE TABLE - OVERHEAD SIGN STR. - 65609				



PLAN - COLUMN BASE

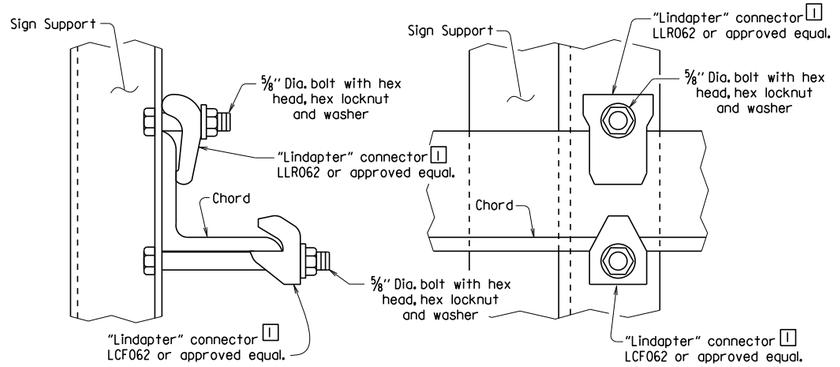


TOP CHORD



Note: Diameter of hole in base plate to be ⅛" larger than column diameter.

ELEVATION - COLUMN BASE

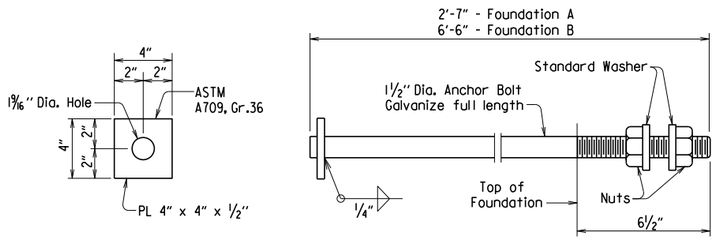


BOTTOM CHORD

[I] All "Lindapter" connectors or approved equal shall be installed according to manufacturer's recommendations. All connectors, bolts, nuts and washers shall be galvanized.

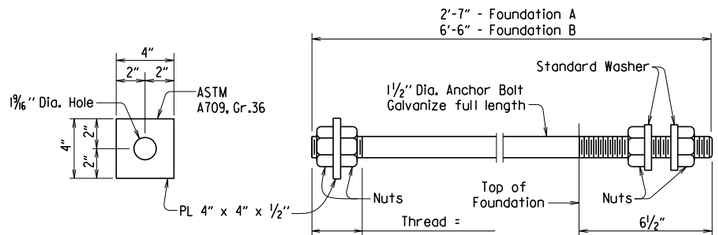
Note: Install all support connectors clear of the gusset plates and splice locations.

DETAILS OF SIGN SUPPORT CONNECTION TO TRUSS



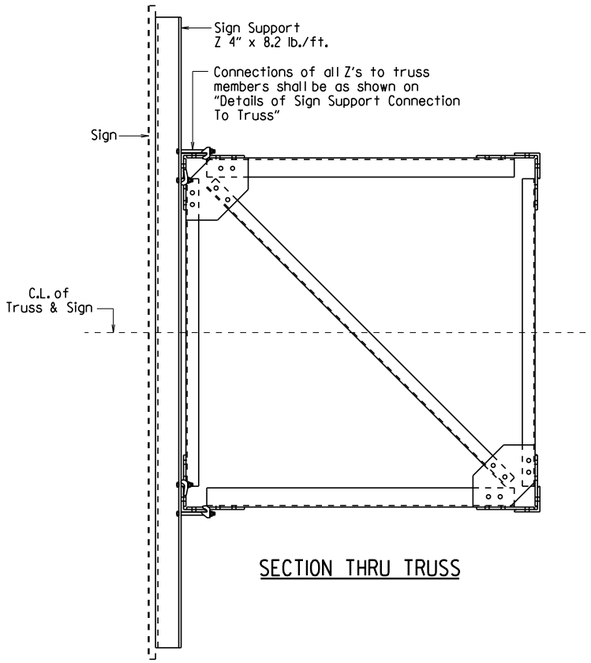
Anchor bolts shall comply with AASHTO M 314, Grade 55 with Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts for bolts shall be as specified in Subsection 807.07.

ANCHOR BOLT DETAIL

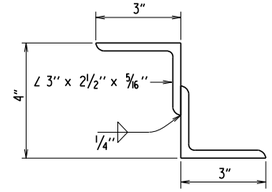


Anchor bolts shall comply with AASHTO M 314, Grade 55 with Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts for bolts shall be as specified in Subsection 807.07.

ALTERNATE ANCHOR BOLT DETAIL



SECTION THRU TRUSS



NOTE: Structural Z support may be fabricated from angles as shown.

DETAILS OF ALTERNATE Z SUPPORT

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No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 4 OF 5
DETAILS OF 55' TO 69'
STEEL OVERHEAD SIGN STRUCTURE

ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: A.M.S. DATE: 7/24/15
CHECKED BY: ACP DATE: 4/8/16
DESIGNED BY: TMG DATE: 9/15
FILENAME: b061754_OH55-69.dgn
SCALE: No Scale

BRIDGE NO. SEE TABLE
DRAWING NO. 65609

PRINT DATE: 7/28/2022

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	86	105
		SEE TABLE - OVERHEAD SIGN STR. - 65610				

GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 2014 Edition, with applicable Supplemental Specifications and Special Provisions. Section and Subsection refer to the Specifications unless otherwise noted in the plans.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, Sixth Edition, 2013 with current interim revisions.

Basic Wind Speed = 90 mph.
Fatigue Category: I

This structure is approved for a maximum sign area equal to 75% of the span length times a sign height of 15 feet. Use of additional sign area must be approved by the Engineer. If the structure height ("H1" or "H2") exceeds 30'-0" contact the Engineer.

FOUNDATION MATERIALS AND STRENGTHS:

Class S Concrete	f'c = 3,500 psi
Reinforcing Steel (Gr. 60, AASHTO M 31 or M 322, Type A)	fy = 60,000 psi

Structural steel sign support members shall comply with the following specifications:

Angles:	ASTM A709, Gr. 36 (Fy = 36,000 psi)
Plate, W-Section:	ASTM A709, Gr. 50 (Fy = 50,000 psi)
[I] Pipe:	ASTM A139, Gr. C, straight-seam welded (Fy = 42,000 psi), ASTM A500, Gr. B (Fy = 42, 000 psi), ASTM A501, Gr. B (Fy = 50,000 psi),
Z-Shapes:	ASTM A709, Gr. 36 (Fy = 36,000 psi)
Shim Plates:	ASTM A1011, SS, Grade 36, Type 2, or Grade 40
Bolts:	ASTM F3125, Grade A325, Type 1
Locknuts:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H
Washers:	ASTM F436
Nuts:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H

The Contractor shall make check measurements in the field and make any adjustments necessary to meet the required clearances and to fit the new structure to the existing conditions.

Drawings show general features of design only. Shop drawings shall be made in accordance with Subsection 807.04, submitted, and approval secured before fabrication is begun.

Requests for substitution of structural steel shapes shown with shapes of greater size must be submitted by the Contractor to the Engineer for approval. Steels of equal or greater strengths will be accepted only when shown on the approved shop drawings. Shapes and materials shown in the plans will be the basis of payment and no additional compensation will be made for any adjustments due to substitutions.

All steel shall be galvanized according to Subsection 807.19. Steel completely encased in concrete may not be galvanized. Galvanized coating damaged during transport, handling or erection shall be field repaired in accordance with Subsection 807.88.

All main load carrying tension members greater than ½" in thickness shall conform to the requirements of the Longitudinal Charpy V-Notch test specified for Zone 1 minimum service temperature. This work and materials shall be paid for in accordance with Job Special Provision "Steel Sign Structures".

Field splices shall be located in order to avoid sign panel connections. There shall be a maximum of two field splices and they shall be spaced a minimum of 15 feet apart.

Truss field sections shall be shop assembled. Entire truss shall be fully assembled and lifted into place as one unit on to tower supports. All truss member connections shall be bolted connections.

All welding that is to be done during fabrication of structural steel, including temporary welds, shall be detailed on the shop drawings and submitted for approval. If additional welds are required, whether temporary or permanent, a formal request with detailed drawings shall be submitted to the Engineer for approval. All welding shall conform to Subsection 807.26 except welding of tubular sections shall conform to AWS D1.1 Structural Welding Code.

No circumferential butt welds will be allowed in any pipe sections.

All fillet welds of critical members shall be tested according to AWS D1.1 Structural Welding Code - Steel using the magnetic particle method. Critical welds shall include: column to base plate and truss bottom support to column.

Connections shall be bolted with high-strength bolts. Unless otherwise noted, bolts shall be ⅝" ø and open holes shall be 11/16 " ø. Bolt spacing shall be 2¼" for ⅝" ø bolts unless otherwise noted. Bolts shall be placed with heads on the outside face of all members.

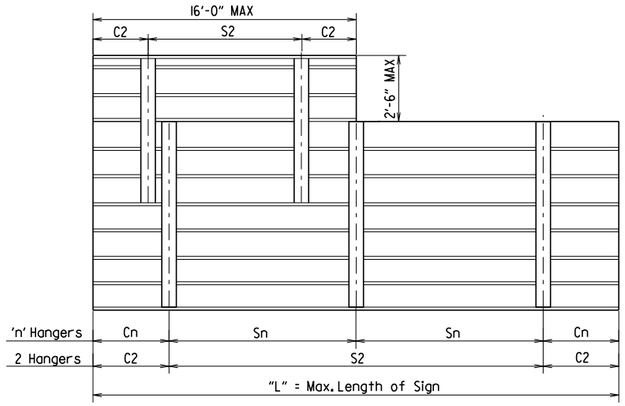
All truss frame bolts shall comply with ASTM F3125 Gr. A325, Type 1, galvanized according to Subsection 807.06. Nuts and washers for ASTM F3125 Gr. A325, Type 1 bolts shall be furnished and galvanized in accordance with Subsection 807.06.

Locknuts to be equipped with nylon locking inserts or other approved type locking system. Locknuts to be installed according to manufacturer's recommendations.

Anchor bolts shall comply with AASHTO M 314, Grade 55 including Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts and washers for anchor bolts shall be furnished and galvanized in accordance with Subsection 807.07.

Shoring may be required to protect existing shoulders during excavation. Any shoring required shall not be paid for directly, but shall be considered incidental to the item "Steel Sign Structure". The excavations for the footings shall be backfilled before the structure is attached to the foundations.

PRINT DATE: 7/28/2022



Note: See sign details and plan sheets for number, size and dimensions of signs.

HANGER SPACING DETAILS FOR EXTRUDED PANEL SIGNS

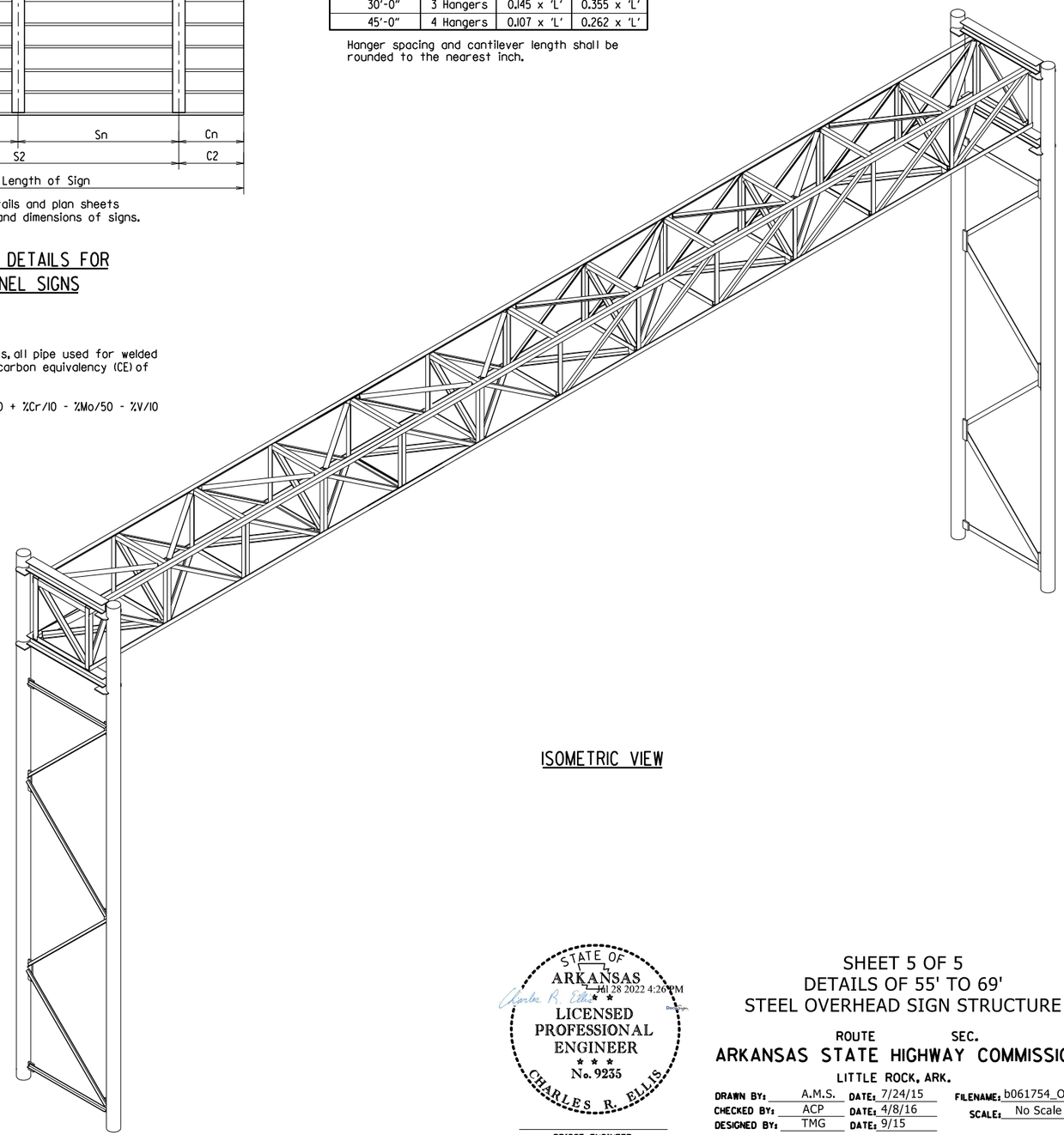
[I] In addition to material requirements, all pipe used for welded applications shall have a maximum carbon equivalency (CE) of 0.4 using the following equation:

CE = %C + %Mn/6 + %Cu/40 + %Ni/20 + %Cr/10 - %Mo/50 - %V/10

HANGER VARIABLES

Max. Length of Sign = "L"	"n" Hangers	Cantilever Length "Cn"	Hanger Spacing 'Sn'
15'-0"	2 Hangers	0.21 x 'L'	0.58 x 'L'
30'-0"	3 Hangers	0.145 x 'L'	0.355 x 'L'
45'-0"	4 Hangers	0.107 x 'L'	0.262 x 'L'

Hanger spacing and cantilever length shall be rounded to the nearest inch.



ISOMETRIC VIEW

STATE OF ARKANSAS
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Charles R. Ellis
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 5 OF 5
DETAILS OF 55' TO 69'
STEEL OVERHEAD SIGN STRUCTURE

ROUTE SEC.

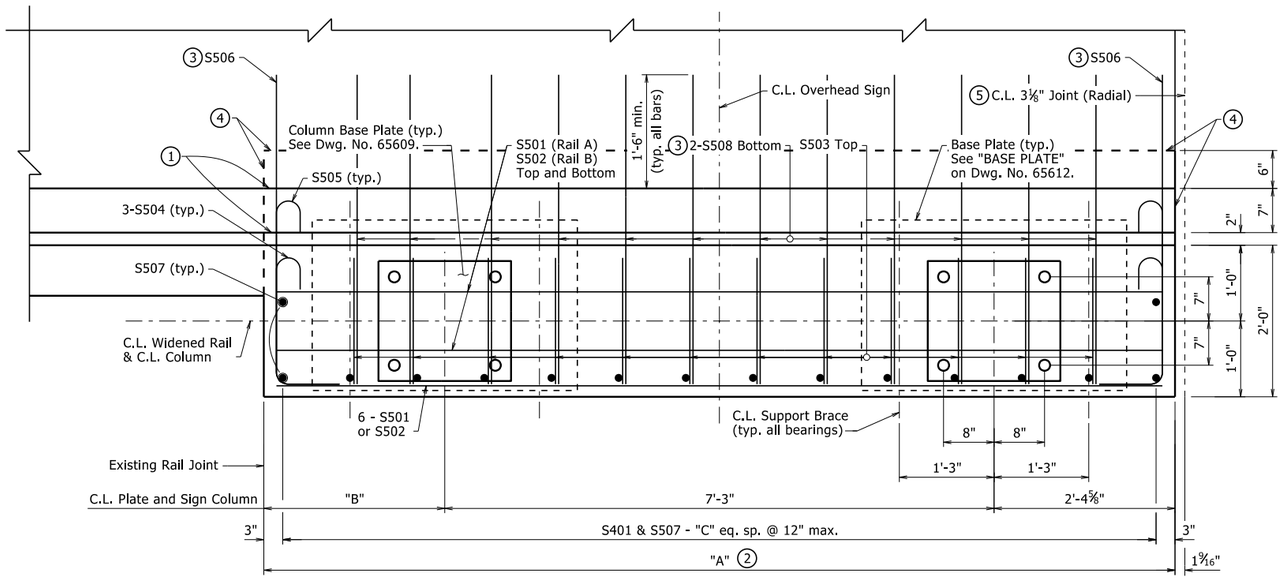
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: A.M.S. DATE: 7/24/15
CHECKED BY: ACP DATE: 4/8/16
DESIGNED BY: TMG DATE: 9/15

FILENAME: b061754_OH55-69.dgn
SCALE: No Scale

BRIDGE NO. SEE TABLE
DRAWING NO. 65610

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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		OH-440-60-55 - SIGN STR. SUPPORT - 65611				

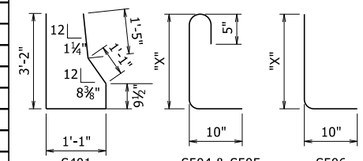


PLAN
1" = 1'-0"

BAR LIST

MARK	RAIL A NO. REQ'D	RAIL B NO. REQ'D	"X"	LENGTH	P.D.
S401	14	17	-	7'-5"	2"
S501	18	-	-	11'-8"	Str.
S502	-	18	-	14'-3"	Str.
S503	12	15	-	1'-8"	Str.
S504	6	6	1'-8"	3'-0"	3¾"
S505	2	2	2'-5"	3'-9"	3¾"
3 S506	4	4	4'-1"	4'-10"	3¾"
S507	16	19	-	3'-2"	Str.
3 S508	24	30	-	3'-6"	Str.

BENDING DIAGRAM



Dimensions are out to out of bar.

Care shall be exercised during the removal of the existing concrete rail to ensure that the existing transverse and longitudinal reinforcing steel protruding from deck slab is not damaged beyond repair. Any reinforcing steel damaged beyond repair during removal of the rail concrete shall be replaced as directed by the Engineer at the Contractor's expense. Minor straightening of the transverse reinforcing steel after the removal of the rail concrete will be allowed. QPL-approved Resin Anchoring System shall be used to replace any damaged reinforcing steel.

Bar positions and clearances from the forms shall be maintained by means of stays, ties, hangers, or other approved devices sufficient in size and number to prevent displacement during construction, per Subsection 804.06. All falsework shall be designed and constructed to prevent the necessary rigidity and to support the loads without appreciable settlement or deformation.

All reinforcing steel shall be Grade 60 conforming to AASHTO M 31 or M 322 Type A, with mill test reports.

The existing plans show No. 6 bars at 16" in top and bottom in the transverse direction and No. 5 bars equally spaced in top and bottom in the longitudinal direction. Lap splice each bar, both longitudinal and transverse, with an equally-sized reinforcing bar. Care shall be exercised to not damage existing reinforcing in top and bottom of slab.

Material removed from existing deck and rail shall become the property of the Contractor and shall be disposed of in accordance with Section 821. See Job SP "MODIFICATION OF EXISTING SIGN FOUNDATION" for additional information.

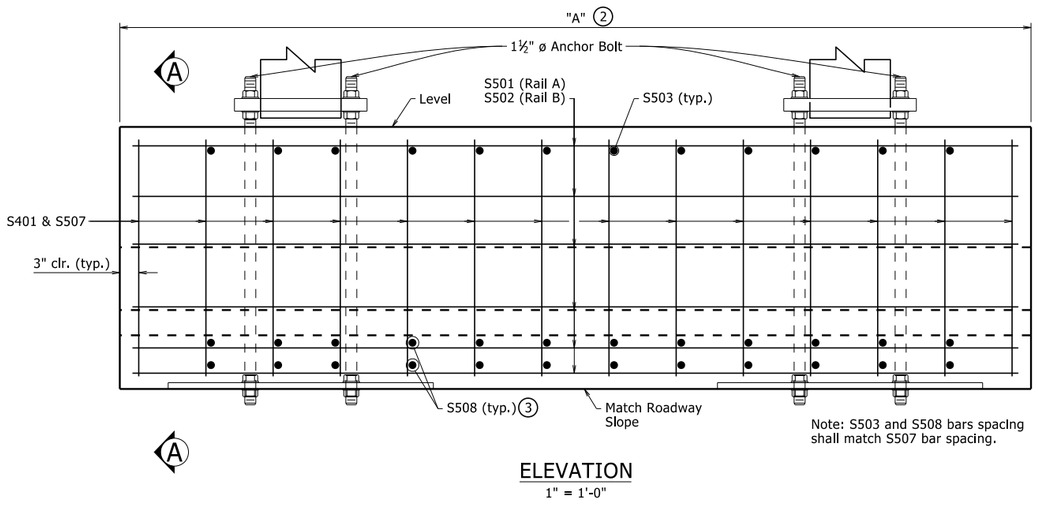
(1) Inside face of rail shall be constructed on a curve concentric to C.L. Bridge.

(2) Measured along outside face of rail.

(3) Dowel into existing deck using a QPL-approved non-shrink grout or resin anchoring system. Modify the embedment depth shown as required by the Manufacturer's recommendations.

(4) Existing rail shall be removed for length "A" and cut slab 6" from inside face of rail.

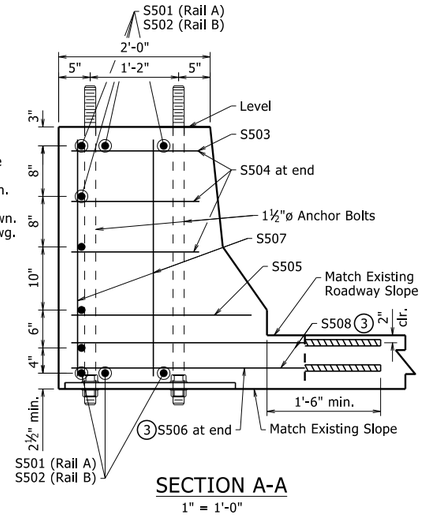
(5) C.L. Joint is located at bent WE-57 and between 75'-0" unit WE-S10 and 270'-0" unit WE-U2B of existing Bridge No. E5700.



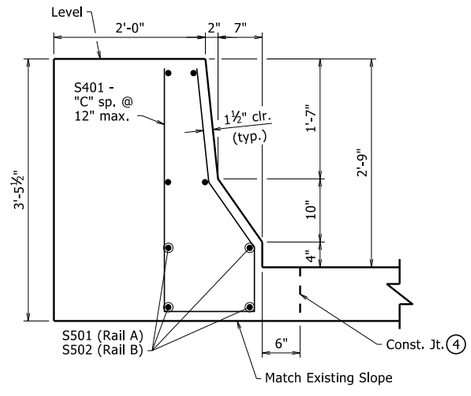
ELEVATION
1" = 1'-0"

Note: Rail reinforcing is not shown for clarity.See "RAIL REINFORCING" for additional information.

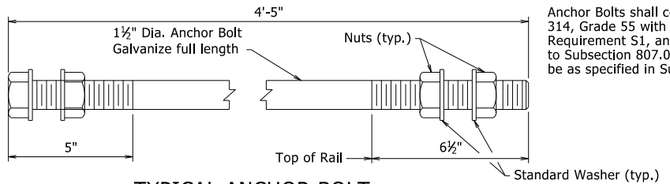
Shear studs are not shown. See "BASE PLATE" on Dwg. No. 65612 for details.



SECTION A-A
1" = 1'-0"



RAIL REINFORCEMENT
1" = 1'-0"



TYPICAL ANCHOR BOLT
No Scale

Anchor Bolts shall comply with AASHTO M 314, Grade 55 with Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts for bolts shall be as specified in Subsection 807.07.

RAIL	"A"	"B"	"C"
Rail A	12'-0⅝16"	2'-4⅝"	13
Rail B	14'-7⅞16"	4'-11¾"	16

Note: Rail A is rail located on outside of curve.
Rail B is rail located on inside of curve.

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No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 1 OF 2
DETAILS OF OVERHEAD SIGN SUPPORT
OH-440-60-55

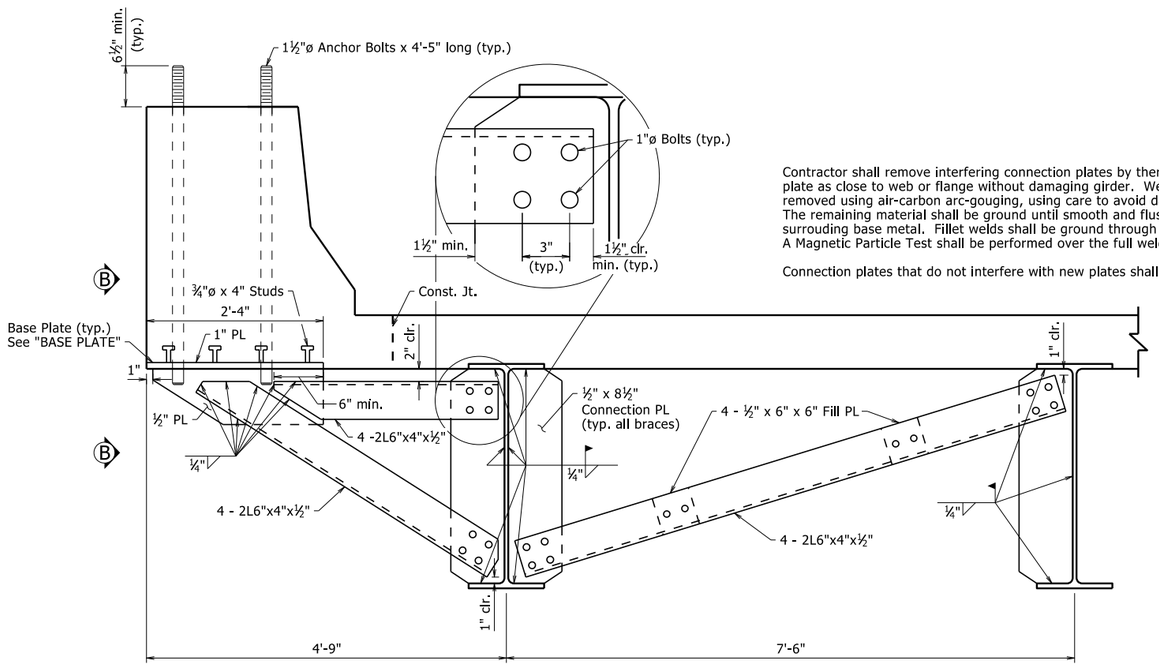
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: BAB DATE: 7/5/2022 FILENAME: b061754_t.dgn
CHECKED BY: MCB DATE: 7/7/2022 SCALE: As Shown
DESIGNED BY: BAB DATE: 6/2022

STR. NO. OH-440-60-55 DRAWING NO. 65611

PRINT DATE: 7/28/2022

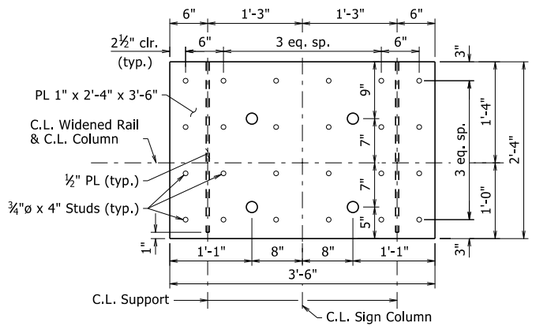
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	88	105
		OH-440-60-55 - SIGN STR. SUPPORT - 65612				



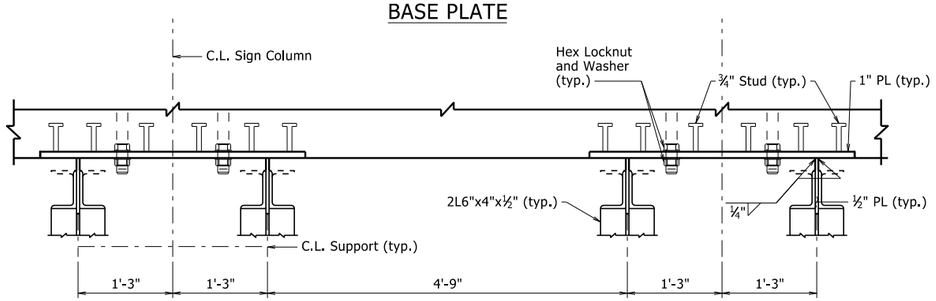
Contractor shall remove interfering connection plates by thermal cutting the plate as close to web or flange without damaging girder. Welds should be removed using air-carbon arc-gouging, using care to avoid damaging girder. The remaining material shall be ground until smooth and flush with the surrouding base metal. Fillet welds shall be ground through the throat of weld. A Magnetic Particle Test shall be performed over the full weld removal area.

Connection plates that do not interfere with new plates shall remain in-place.

TYPICAL BRACING SYSTEM FOR OVERHEAD SIGN SUPPORT



BASE PLATE



VIEW B-B

GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 2014 Edition, with applicable supplemental specifications and special provisions.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges, 17th Edition (2002)

CONCRETE: All concrete shall be Class S(AE) with a minimum 28 day compressive strength (f'c = 4,000 psi). Exposed corners to be chamfered ¾" unless otherwise noted.

REINFORCING STEEL: Reinforcing steel shall be Grade 60 (yield strength = 60,000 psi) conforming to AASHTO M 31 or M 322, Type A, will mill test reports.

STRUCTURAL STEEL: Structural steel sign support members shall comply with the following specifications:

Angles:	ASTM A709, Grade 50 or 50W (Fy = 50,000 psi)
Plates:	ASTM A709, Grade 50 or 50W (Fy = 50,000 psi)
Bolts:	ASTM F3125, Grade A325, Type 1
Locknuts:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H
Washers:	ASTM F436
Nuts:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H

All structural steel, except connection plates, shall be ASTM A709, Gr. 50 or Gr. 50W and shall be galvanized according to Subsection 807.19. All connection plates shall be ASTM A709, Gr. 50W. Steel completely encased in concrete need not be galvanized. Galvanized coating damaged during transport, handling, or erection shall be field repaired in accordance with Subsection 807.88.

Drawings show general features of design only. Shop drawings shall be made in accordance with Subsection 807.04, submitted, and approval secured before fabrication is begun.

Requests for substitution of structural steel shapes shown with shapes of greater size must be submitted by the Contractor to the Engineer for approval. Steels of equal or greater strengths will be accepted only when shown on the approved shop drawings. Shapes and materials shown in the plans will be the basis of payment and no additional compensation will be made for any adjustments due to substitutions.

All welding that is to be done during fabrication of structural steel, including temporary welds, shall be detailed on the shop drawings and submitted for approval. If additional welds are required, whether temporary or permanent, a formal request with detailed drawings shall be submitted to the Engineer for approval. All welding shall conform to Subsection 807.26.

Connections shall be bolted with high-strength bolts. Unless noted otherwise, bolts shall be 1" diameter and open holes shall be $1\frac{1}{16}$" diameter. Bolt spacing shall be as shown on the plans. Bolts shall be placed with the heads on the outside face of all members.

Locknuts to be equipped with nylon locking inserts or other approved type locking system. Locknuts to be installed according to manufacturer's recommendations.

Dimension shown are based on plans for existing Bridge No. E5700. The Contractor shall make check measurements in the field and make any adjustments to fit the structures to the bridge. Measurements and adjustments shall be made prior to submittal of shop drawings.

Portions of existing bridge affected by removal of existing signs or installation of the new sign shall be repaired at the direction and to the satisfaction of the Engineer. Holes in concrete shall be repaired at the direction and to the satisfaction of the Engineer. Holes in concrete shall be filled with an approved epoxy grout. Open holes in steel shall be filled with properly sized and tensioned high-strength bolts. Damaged structural steel coatings shall be repaired.

See SP Job 061754 "MODIFICATION OF EXISTING SIGN FOUNDATION" for additional construction details.

APPROXIMATE QUANTITIES PER RAIL (FOR INFORMATION ONLY)

STRUCTURE	Class S(AE) Concrete (cu. yds.)	Reinforcing Steel (lbs.)	Structural Steel, Grade 50 (lbs.)
RAIL A	3.66	496	3600
RAIL B	4.45	597	3600

STATE OF ARKANSAS
Jul 28 2022 4:20 PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 2 OF 2
DETAILS OF OVERHEAD SIGN SUPPORT
OH-440-60-55

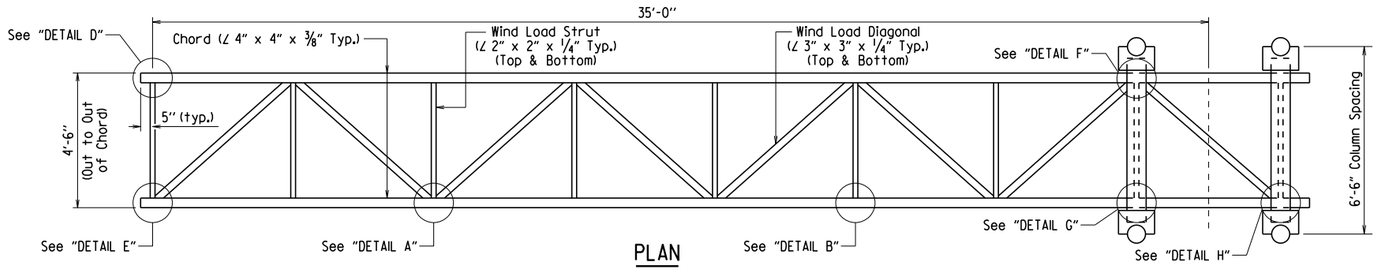
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: BAB DATE: 7/5/2022
CHECKED BY: MCB DATE: 7/7/2022
DESIGNED BY: BAB DATE: 6/2022
FILENAME: b061754_t.dgn
SCALE: 1" = 1'-0"

STR. NO. OH-440-60-55 DRAWING NO. 65612

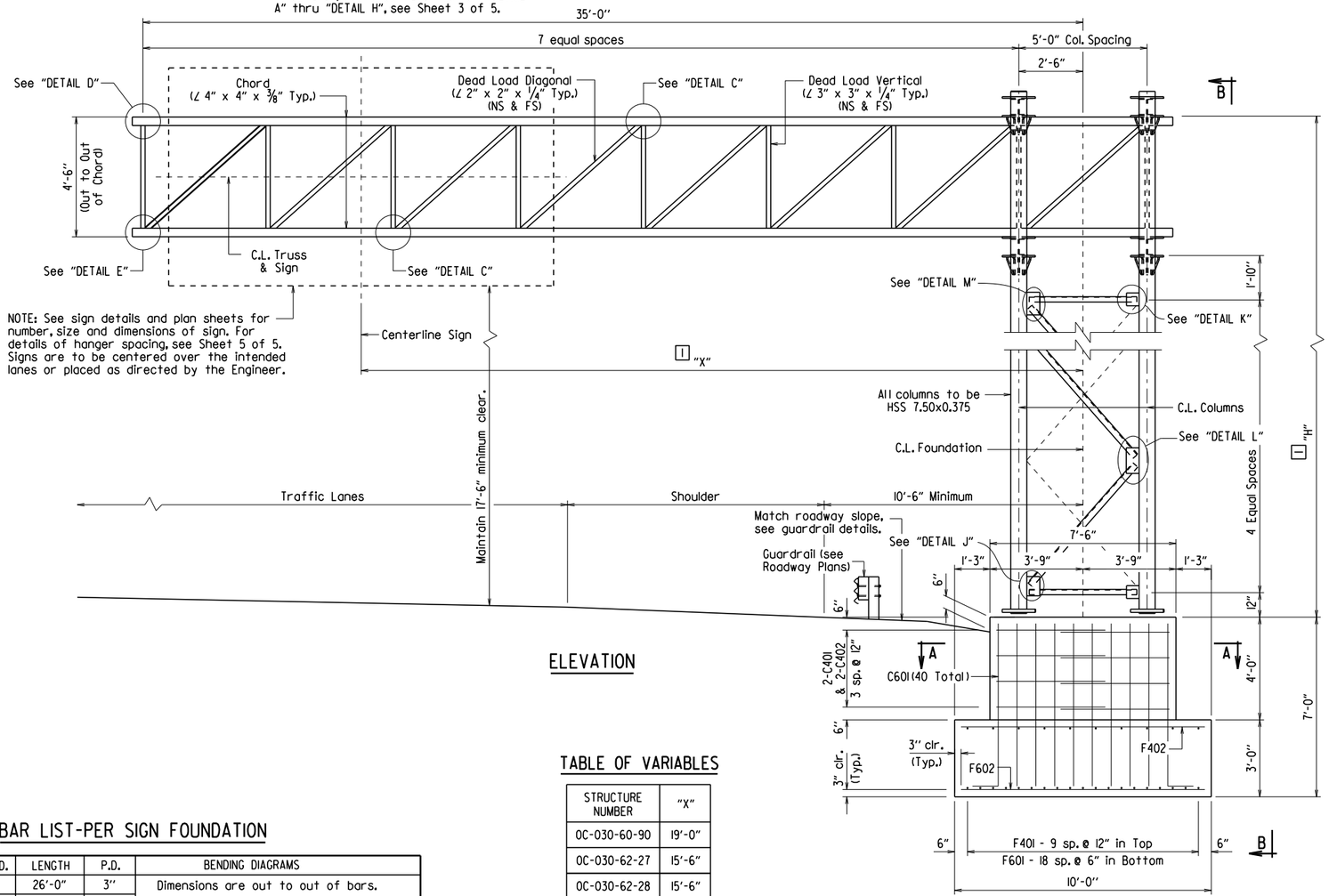
PRINT DATE: 7/28/2022

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	89	105
		SEE TABLE - CANTILEVER SIGN STR. - 65613				



PLAN

NOTE: For "DETAIL J" thru "DETAIL M" and "View B-B", see Sheet 2 of 5. For "DETAIL A" thru "DETAIL H", see Sheet 3 of 5.



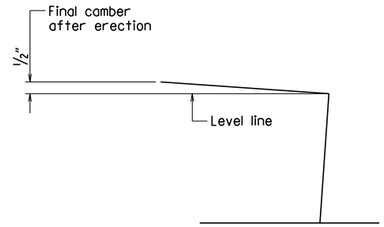
ELEVATION

[1] NOTE: The Contractor shall make field measurements to determine the following:

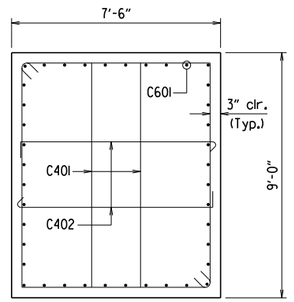
1) To verify that dimension "X" is sufficient to center the sign over the intended lane while maintaining minimum horizontal clearances.

2) To determine the column height "H" required to maintain the minimum vertical clearance with the centerline of the sign located at the C.L. of the truss. If the structure height "H" exceeds 30'-0" contact the Engineer.

These verifications and measurements are required prior to submittal of the shop drawings. The column height "H" shall be shown on the shop drawings with a note stating that the Contractor has made the required field measurements.



TRUSS CAMBER DIAGRAM



SECTION A-A

TABLE OF VARIABLES

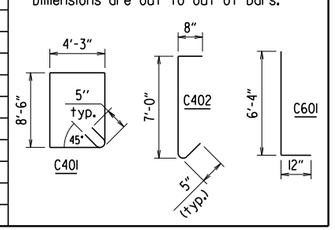
STRUCTURE NUMBER	"X"
OC-030-60-90	19'-0"
OC-030-62-27	15'-6"
OC-030-62-28	15'-6"
OC-030-62-29	17'-0"
OC-030-62-30	16'-0"
OC-030-62-31	15'-6"
OC-030-62-32	15'-6"
OC-030-62-42	15'-6"

TABULAR DATA BY: BAB DATE: 7/13/2022

CHECKED BY: MCB DATE: 7/20/2022

BAR LIST-PER SIGN FOUNDATION

MARK	NO. REQ'D.	LENGTH	P.D.	BENDING DIAGRAMS
C401	8	26'-0"	3"	Dimensions are out to out of bars.
C402	8	8'-0"	3"	
C601	40	7'-2"	4½"	
F401	10	14'-6"	Str.	
F402	15	9'-6"	Str.	
F601	19	14'-6"	Str.	
F602	29	9'-6"	Str.	



APPROXIMATE QUANTITIES (FOR INFORMATION ONLY)

STRUCTURE NUMBER	CLASS S CONCRETE (CU. YDS.)	REINFORCING STEEL (LBS.)	EXCAVATION (CU. YDS.)
EACH STRUCTURE	26.7	1,635	57

STATE OF ARKANSAS
Jul 28 2022 4:27 PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 1 OF 5
DETAILS OF 35'
STEEL CANTILEVER SIGN STRUCTURE

ROUTE SEC.

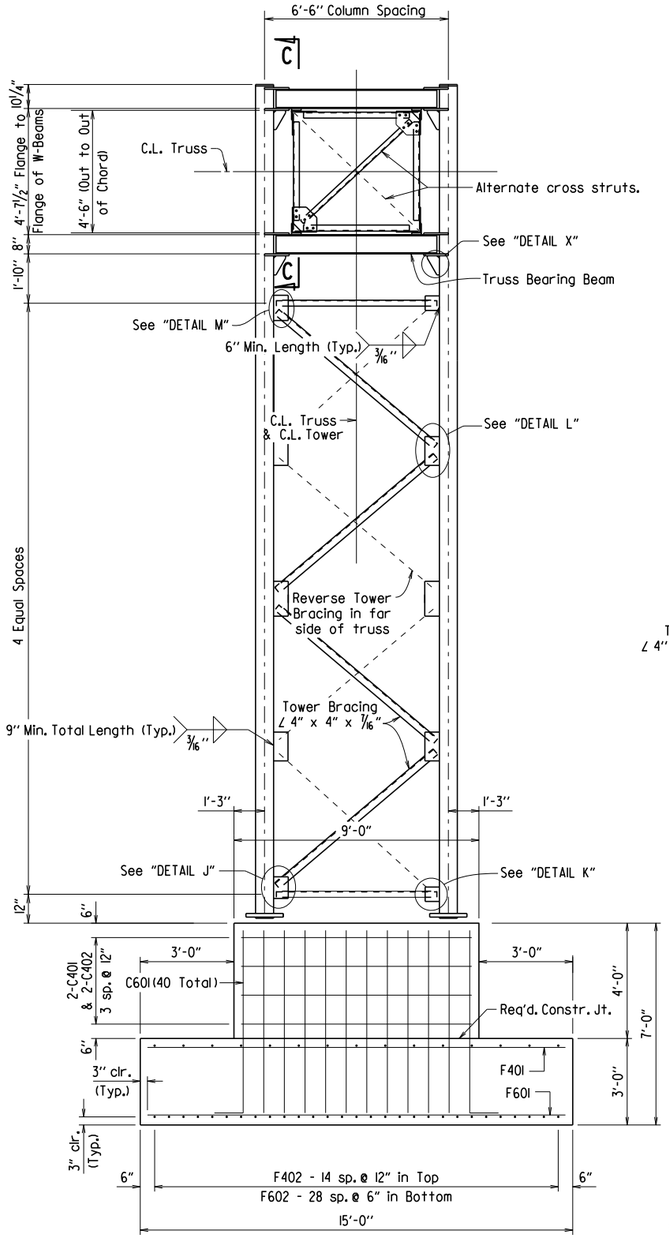
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CMW DATE: 2/10/2015 FILENAME: b061754_OC35.dgn
CHECKED BY: KWY DATE: 4/8/2015 SCALE: No Scale
DESIGNED BY: CMW DATE: 2/2015

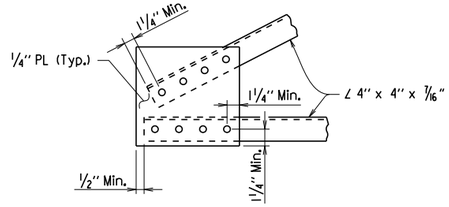
BRIDGE NO. SEE TABLE DRAWING NO. 65613

PRINT DATE: 7/28/2022

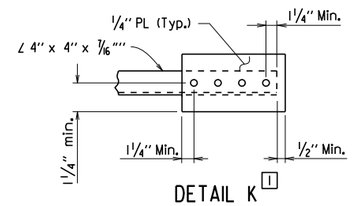
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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		SEE TABLE - CANTILEVER SIGN STR. - 65614				



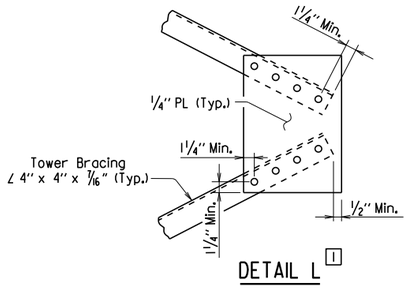
VIEW B-B



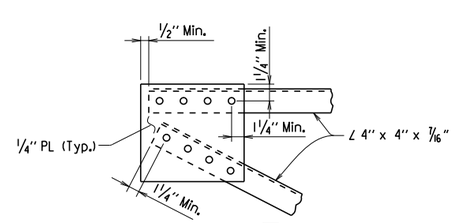
DETAIL J [1]



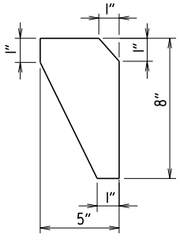
DETAIL K [1]



DETAIL L [1]



DETAIL M [1]

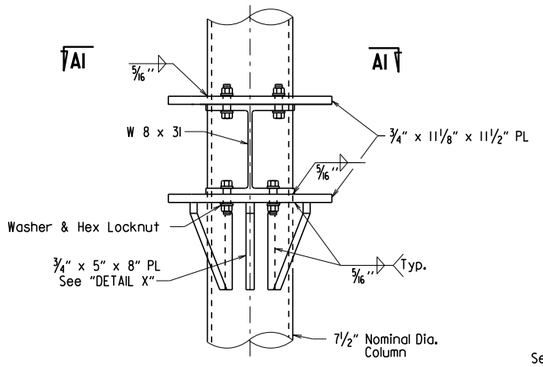


DETAIL X

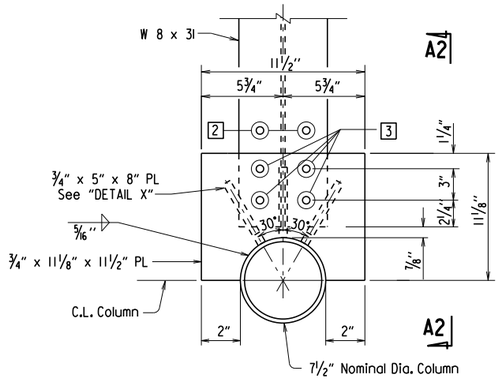
[1] Bolts shall be 3/4" ø and open holes shall be 13/16 " ø. Minimum center to center bolt spacing shall be 2 1/2". Dimensions shown are typical.

[2] Bolts shall be 3/4" ø. Provide 13/16 " x 2" slotted hole in gusset plate and chord angle. Use plate washer on gusset plate side. Provide 13/16 " ø holes in 3/4" shim plate and top or bottom beam flanges as required.

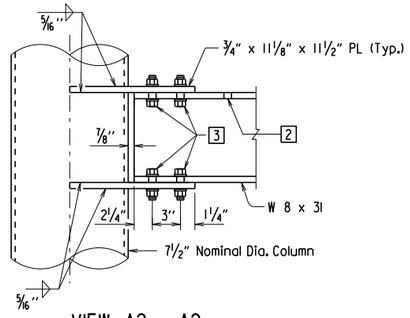
[3] Bolts shall be 3/4" ø. Provide 13/16 " ø holes at top and bottom beam flanges and connection plates.



DETAIL - TRUSS BEARING SUPPORT

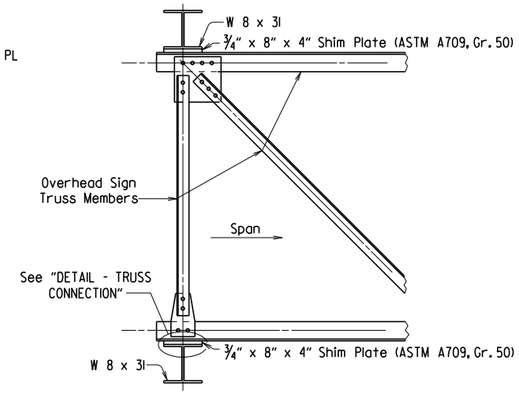


VIEW A1 - A1

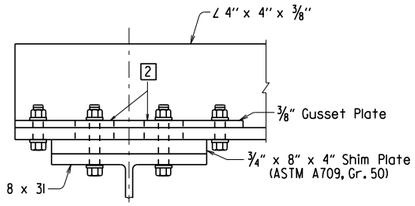


VIEW A2 - A2

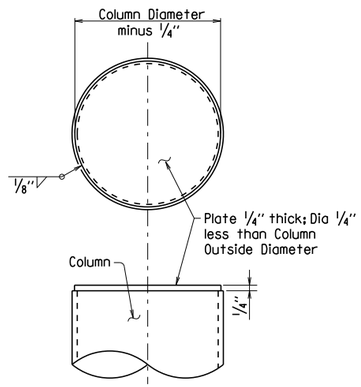
3/4" x 5" x 8" Plate not shown for clarity



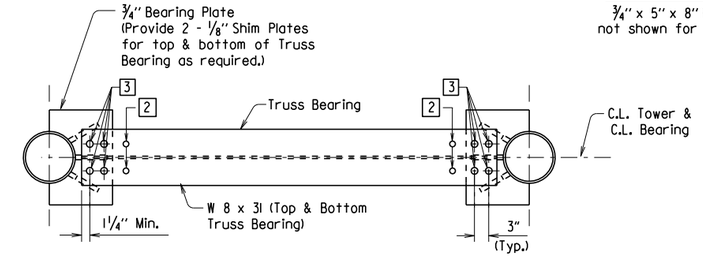
VIEW C-C



DETAIL - TRUSS CONNECTION



END CAP DETAIL



PLAN AT TRUSS BEARING

STATE OF ARKANSAS
JUL 28 2022 4:27 PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 2 OF 5
DETAILS OF 35'
STEEL CANTILEVER SIGN STRUCTURE

ROUTE SEC.

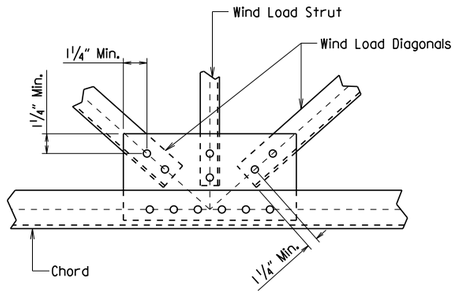
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

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CHECKED BY: KWY DATE: 4/8/2015 SCALE: No Scale
DESIGNED BY: CMW DATE: 2/2015

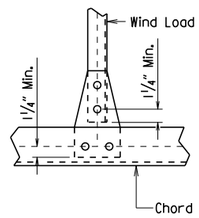
BRIDGE NO. SEE TABLE DRAWING NO. 65614

PRINT DATE: 7/28/2022

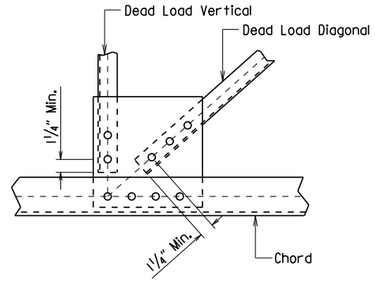
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		SEE TABLE - CANTILEVER SIGN STR. - 65615				



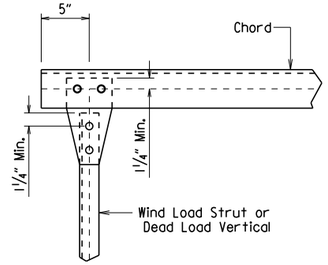
DETAIL A [1]



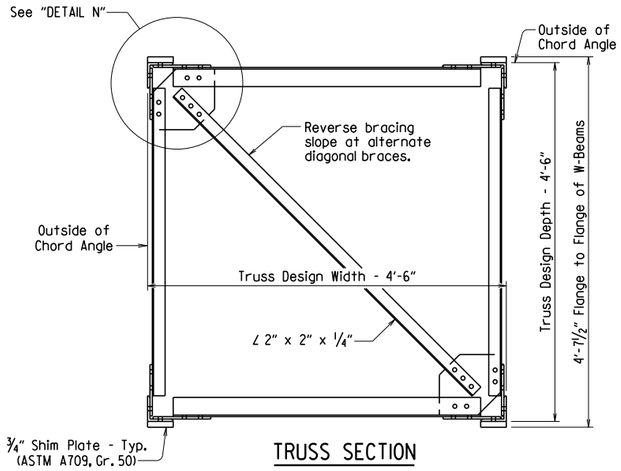
DETAIL B [1]



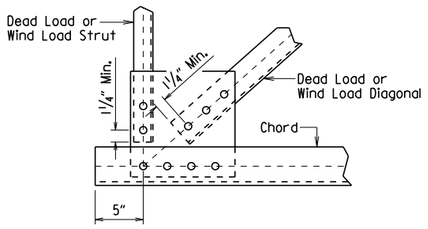
DETAIL C [1]



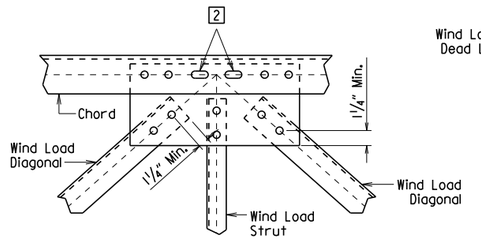
DETAIL D [1]



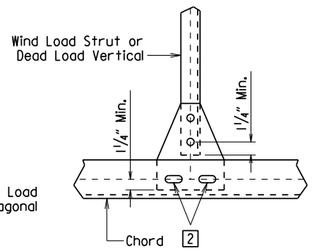
TRUSS SECTION



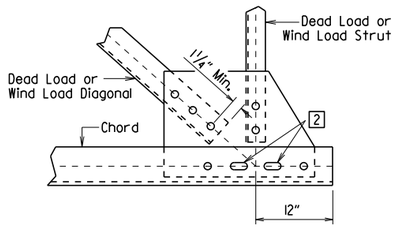
DETAIL E [1]



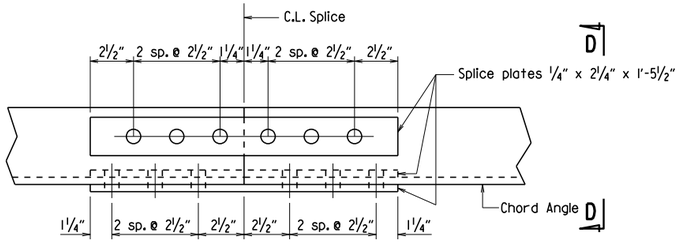
DETAIL F [1]



DETAIL G [1]

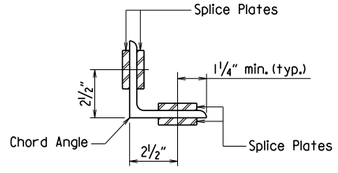


DETAIL H [1]

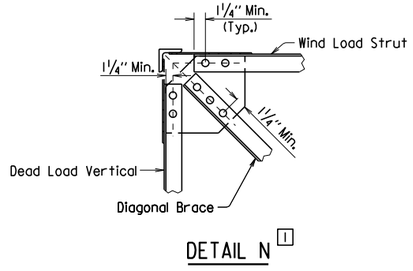


Note: Chord angles may be spliced in convenient lengths for galvanizing and sign placement.

CHORD SPLICE [3]



VIEW D-D



DETAIL N [1]

Note: Unless otherwise noted, thickness of all Gusset Plates shall be ⅜".

[1] Bolts shall be ¾" ø and open holes shall be 13/16 " ø. Minimum center to center bolt spacing shall be 2½". Dimensions shown are typical.

[2] Bolts shall be ¾" ø. Provide 13/16 " x 2" slotted hole in gusset plate and chord angle. Use plate washer on gusset plate side. Clearance between end of slot and adjacent bolt hole shall be no less than 1½".

[3] Bolts shall be ¾" ø and open holes shall be 13/16 " ø.

STATE OF ARKANSAS
JUL 28 2022 4:27 PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 3 OF 5
DETAILS OF 35'
STEEL CANTILEVER SIGN STRUCTURE

ROUTE SEC.

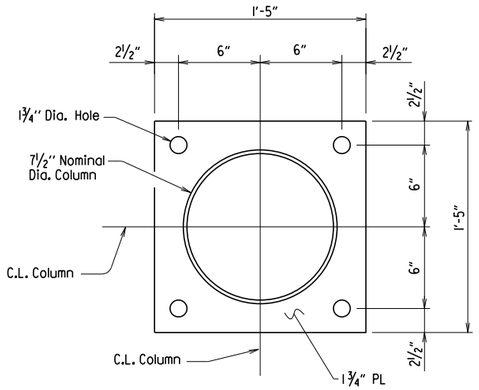
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CMW DATE: 2/10/2015
CHECKED BY: KWY DATE: 4/8/2015
DESIGNED BY: CMW DATE: 2/2015
FILENAME: b061754_OC35.dgn
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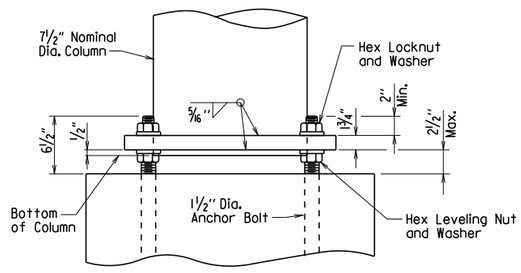
BRIDGE NO. SEE TABLE
DRAWING NO. 65615

PRINT DATE: 7/28/2022

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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		SEE TABLE - CANTILEVER SIGN STR. - 65616				

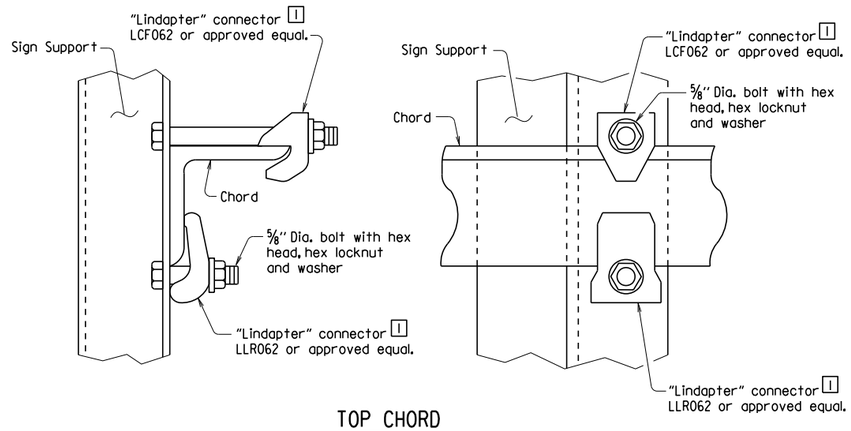


PLAN - COLUMN BASE

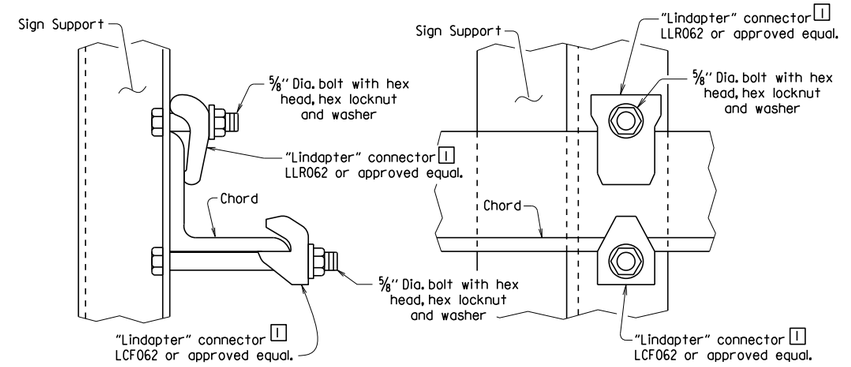


Note: Diameter of hole in base plate to be 1/8" larger than column diameter.

ELEVATION - COLUMN BASE



TOP CHORD

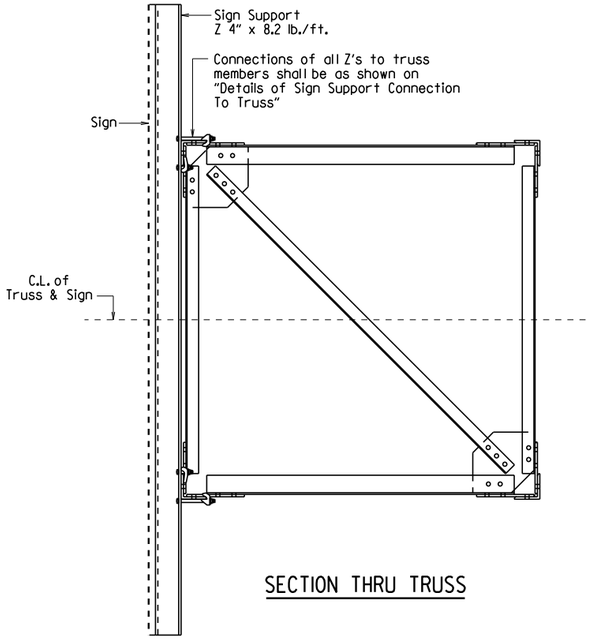


BOTTOM CHORD

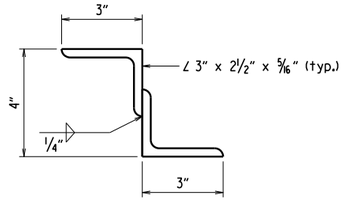
[1] All "Lindapter" connectors or approved equal shall be installed according to manufacturer's recommendations. All connectors, bolts, nuts and washers shall be galvanized.

Note: Install all support connectors clear of the gusset plates and splice locations.

DETAILS OF SIGN SUPPORT CONNECTION TO TRUSS

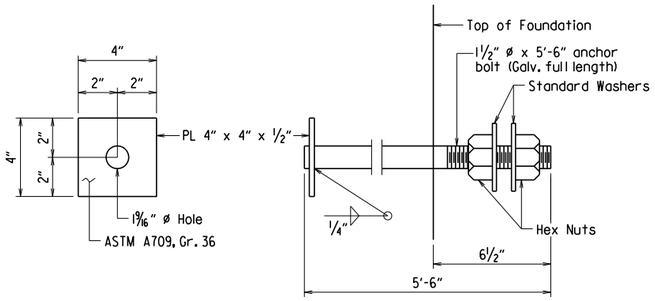


SECTION THRU TRUSS



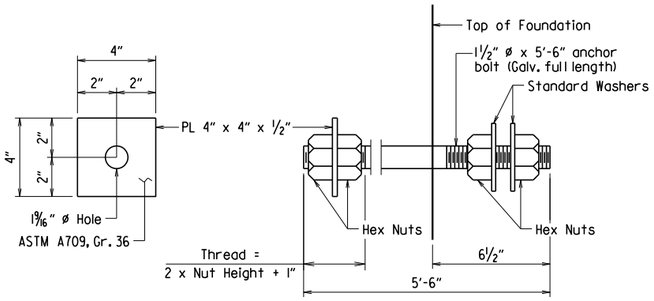
NOTE: Structural Z support may be fabricated from angles as shown.

DETAILS OF ALTERNATE Z SUPPORT



Anchor bolts shall comply with AASHTO M 314, Grade 55, with Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts and washers for bolts shall be as specified in Subsection 807.07.

ANCHOR BOLT DETAIL



Anchor bolts shall comply with AASHTO M 314, Grade 55, with Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts and washers for bolts shall be as specified in Subsection 807.07.

ALTERNATE ANCHOR BOLT DETAIL

STATE OF ARKANSAS
Jul 28 2022 4:27 PM
Charles R. Ellis
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 4 OF 5
DETAILS OF 35'
STEEL CANTILEVER SIGN STRUCTURE

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CMW DATE: 2/10/2015 FILENAME: b061754_OC35.dgn
CHECKED BY: KWY DATE: 4/8/2015 SCALE: No Scale
DESIGNED BY: CMW DATE: 2/2015

BRIDGE NO. SEE TABLE DRAWING NO. 65616

PRINT DATE: 7/28/2022

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	93	105
		SEE TABLE - CANTILEVER SIGN STR. - 65617				

GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 2014 Edition, with applicable Supplemental Specifications and Special Provisions. Section and Subsection refer to the Specifications unless otherwise noted in the plans.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, Sixth Edition, 2013 with current interim revisions.

Basic Wind Speed = 90 mph.
Fatigue Category: I

This structure is approved for 235 square feet of sign area. Use of additional sign area must be approved by the Engineer. If the structure height ("H") exceeds 30'-0" contact the Engineer.

FOUNDATION MATERIALS AND STRENGTHS:
Class S Concrete f'c = 3,500 psi
Reinforcing Steel (Gr. 60, AASHTO M 31 or M 322, Type A) fy = 60,000 psi

Structural steel sign support members shall comply with the following specifications:

Angles:	ASTM A709, Grade 36 (Fy = 36,000 psi)
Plate, W-Section:	ASTM A709, Grade 50 (Fy = 50,000 psi)
[1] Pipe:	ASTM A139, Gr. C, straight-seam welded (Fy = 42,000 psi), ASTM A500, Gr. B (Fy = 42,000 psi), ASTM A501, Gr. B (Fy = 50,000 psi),
Z-Shapes:	ASTM A709, Grade 36 (Fy = 36,000 psi)
Shim Plates:	ASTM A1011, SS, Grade 36, Type 2, or Grade 40
Bolts:	ASTM F3125, Grade A325, Type I
Locknuts:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H
Washers:	ASTM F436
Nuts:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H

The Contractor shall make check measurements in the field and make any adjustments necessary to meet the required clearances and to fit the new structure to the existing conditions.

Drawings show general features of design only. Shop drawings shall be made in accordance with Subsection 807.04, submitted, and approval secured before fabrication is begun.

Requests for substitution of structural steel shapes shown with shapes of greater size must be submitted by the Contractor to the Engineer for approval. Steels of equal or greater strengths will be accepted only when shown on the approved shop drawings. Shapes and materials shown in the plans will be the basis of payment and no additional compensation will be made for any adjustments due to substitutions.

All steel shall be galvanized according to Subsection 807.19. Galvanized coating damaged during transport, handling or erection shall be field repaired in accordance with Subsection 807.88.

All main load carrying tension members greater than ½" in thickness shall conform to the requirements of the Longitudinal Charpy V-Notch test specified for Zone 1 minimum service temperature. This work and materials shall be paid for in accordance with Job Special Provision "Steel Sign Structures".

Field splices shall be located in order to avoid sign panel connections. There shall be a maximum of two field splices and they shall be spaced a minimum of 15 feet apart.

Truss field sections shall be shop assembled. Entire truss shall be fully assembled and lifted into place as one unit on to tower supports. All truss member connections shall be bolted connections.

All welding that is to be done during fabrication of structural steel, including temporary welds, shall be detailed on the shop drawings and submitted for approval. If additional welds are required, whether temporary or permanent, a formal request with detailed drawings shall be submitted to the Engineer for approval. All welding shall conform to Subsection 807.26 except welding of tubular sections shall conform to AWS D1.1 Structural Welding Code.

No circumferential butt welds will be allowed in any pipe sections.

All fillet welds of critical members shall be tested according to AWS D1.1 Structural Welding Code - Steel using the magnetic particle method. Critical welds shall include: column to base plate and truss bottom support to column.

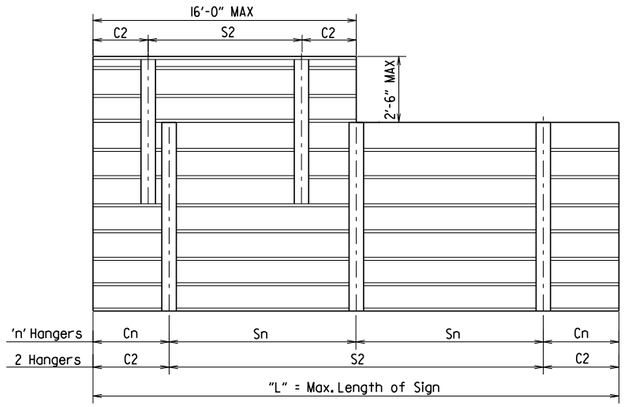
Connections shall be bolted with high-strength bolts. Unless otherwise noted, bolts shall be ¾" ø and open holes shall be 13/16" ø. Bolt spacing shall be 2½" for ¾" ø bolts unless otherwise noted. Bolts shall be placed with heads on the outside face of all members.

All truss frame bolts shall comply with ASTM F3125 Grade A325, Type 1, galvanized according to Subsection 807.06. Nuts and washers for ASTM F3125 Grade A325, Type 1 bolts shall be furnished and galvanized in accordance with Subsection 807.06.

Locknuts to be equipped with nylon locking inserts or other approved type locking system. Locknuts to be installed according to manufacturer's recommendations.

Anchor bolts shall comply with AASHTO M 314, Grade 55 including Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts and washers for anchor bolts shall be furnished and galvanized in accordance with Subsection 807.07. Anchor bolts shall be pretensioned in accordance with Job Special Provision "Steel Sign Structures".

Shoring may be required to protect existing shoulders during excavation. Any shoring required shall not be paid for directly, but shall be considered incidental to the item "Steel Cantilever Sign Structure ( )". The excavations for the footings shall be backfilled before the structure is attached to the foundations.



Note: See sign details and plan sheets for number, size and dimensions of signs.

HANGER SPACING DETAILS FOR EXTRUDED PANEL SIGNS

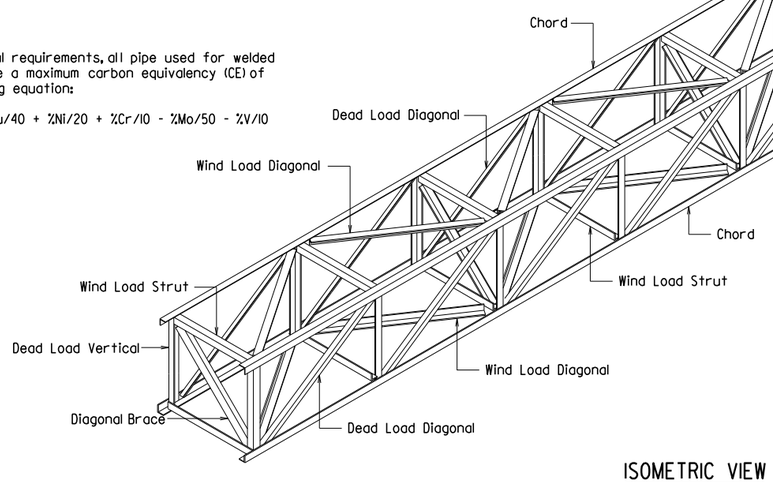
[1] In addition to material requirements, all pipe used for welded applications shall have a maximum carbon equivalency (CE) of 0.4 using the following equation:

CE = %C + %Mn/6 + %Cu/40 + %Ni/20 + %Cr/10 - %Mo/50 - %V/10

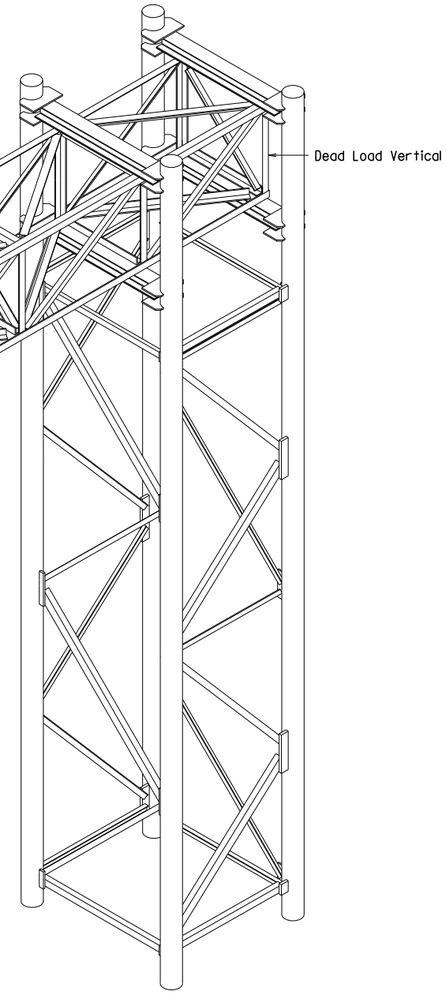
HANGER VARIABLES

Max. Length of Sign = "L"	"n" Hangers	Cantilever Length "Cn"	Hanger Spacing 'Sn'
15'-0"	2 Hangers	0.21 x 'L'	0.58 x 'L'
30'-0"	3 Hangers	0.145 x 'L'	0.355 x 'L'

Hanger spacing and cantilever length shall be rounded to the nearest inch.



ISOMETRIC VIEW



*In addition to material requirements, all pipe used for welding applications shall have a maximum carbon equivalency (CE) of 0.4 using the following equation:
CE = %C + %Mn/6 + %Cu/40 + %Ni/20 + %Cr/10 - %Mo/50 - %V/10

STATE OF ARKANSAS
Jul 28 2022 4:27 PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 5 OF 5
DETAILS OF 35'
STEEL CANTILEVER SIGN STRUCTURE

ROUTE SEC.

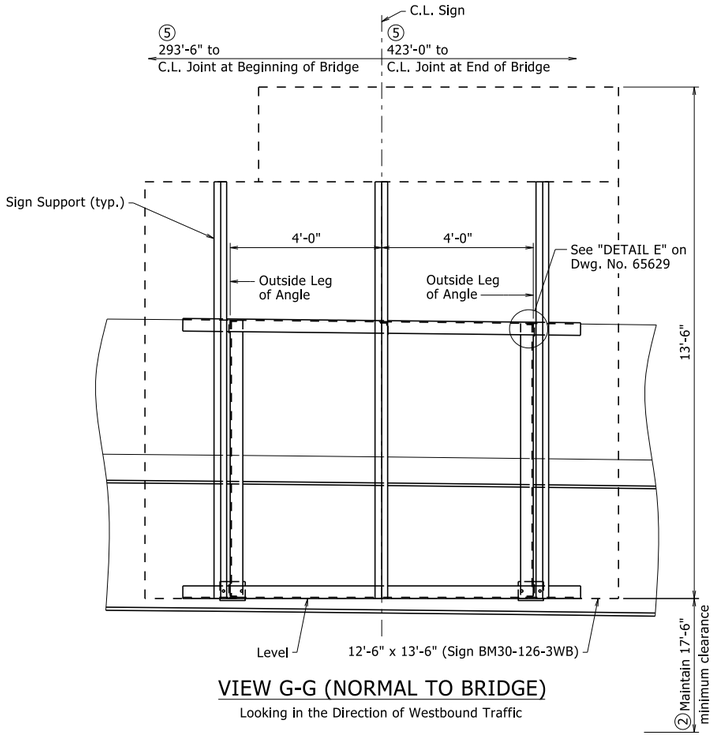
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CMW DATE: 2/10/2015
CHECKED BY: KWY DATE: 4/8/2015
DESIGNED BY: CMW DATE: 2/2015
FILENAME: b061754_OC35.dgn
SCALE: No Scale

BRIDGE NO. SEE TABLE DRAWING NO. 65617

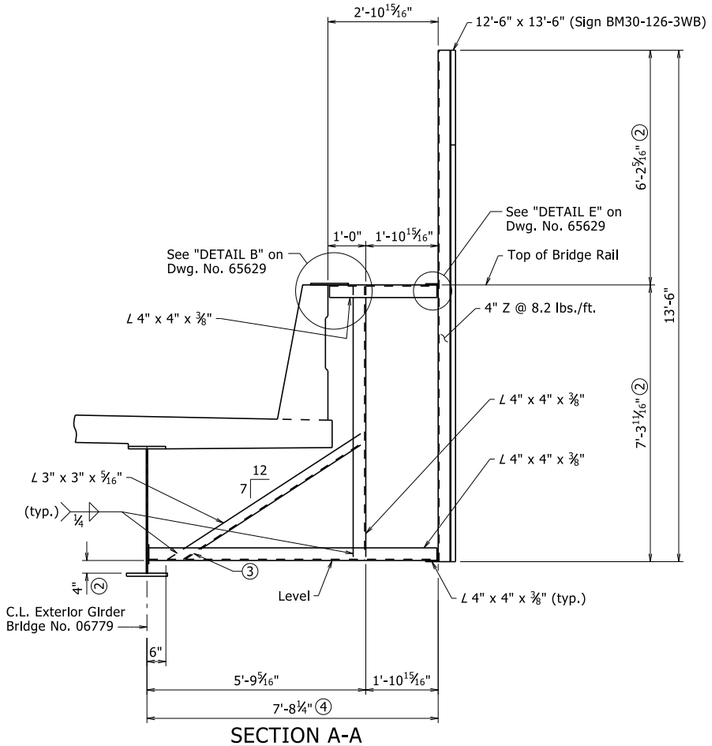
PRINT DATE: 7/28/2022

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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		BM-030-60-91 - SIGN STR. - 65618				

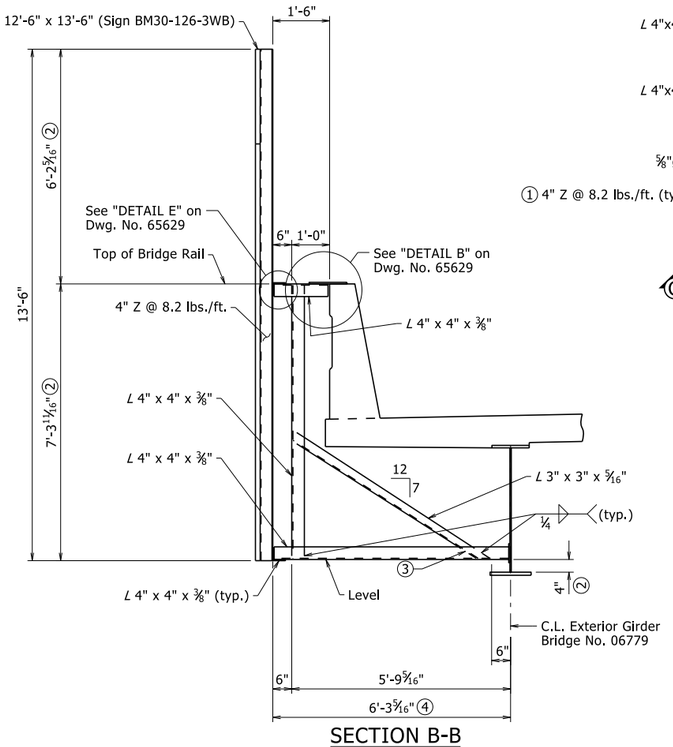


VIEW G-G (NORMAL TO BRIDGE)

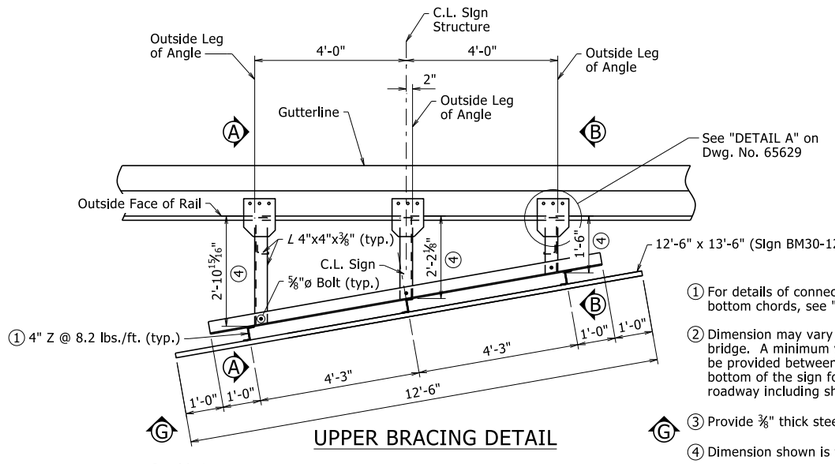
Looking in the Direction of Westbound Traffic



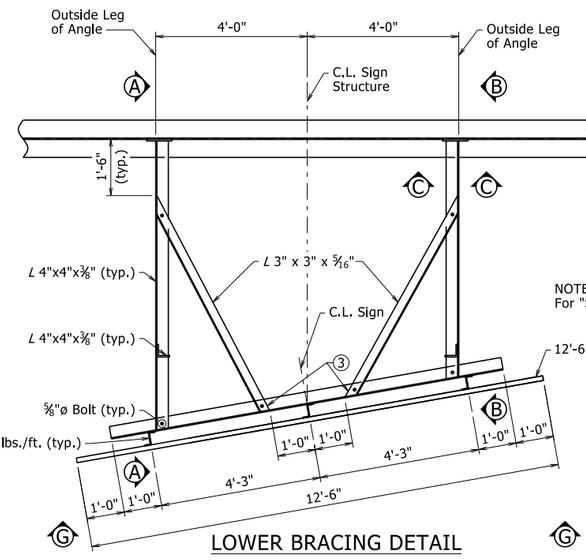
SECTION A-A



SECTION B-B



UPPER BRACING DETAIL



LOWER BRACING DETAIL

NOTE:
For "SECTION C-C", see Dwg. No. 65629.

① For details of connection of sign support to top and bottom chords, see "DETAIL F" on Dwg. No. 65629.

② Dimension may vary due to the slope of the existing bridge. A minimum vertical clearance of 17'-6" shall be provided between the pavement surface and the bottom of the sign for the entire width of the roadway including shoulders.

③ Provide 3/8" thick steel filler plate as required.

④ Dimension shown is taken at outside leg of angle.

⑤ Approximate distance is measured along outside face of rail.

STATE OF ARKANSAS
Jul 28 2022 4:27 PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

DETAILS OF SIGN STRUCTURE BM-030-60-91

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

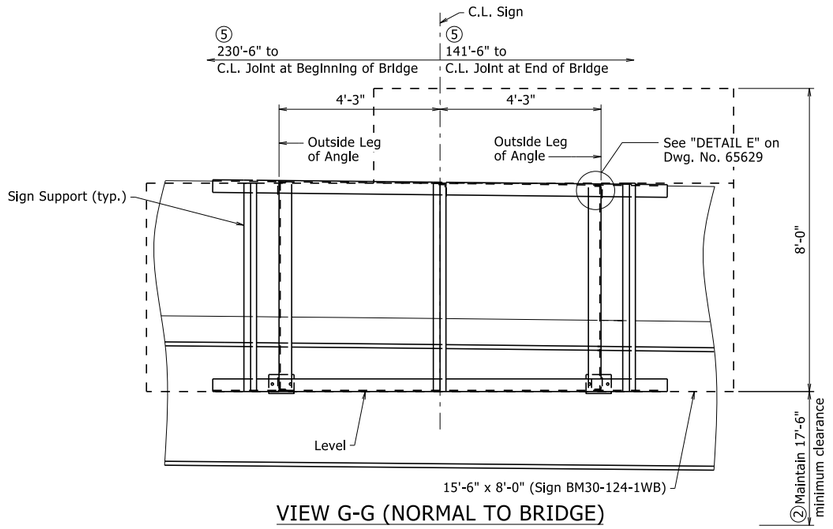
LITTLE ROCK, ARK.

DRAWN BY: CGP DATE: 05/16/2022 FILENAME: b061754_s1.dgn
CHECKED BY: MCB DATE: 06/22/2022 SCALE: 1/2" = 1'-0"
DESIGNED BY: DPT DATE: 05/2022

STR. NO. BM-030-60-91 DRAWING NO. 65618

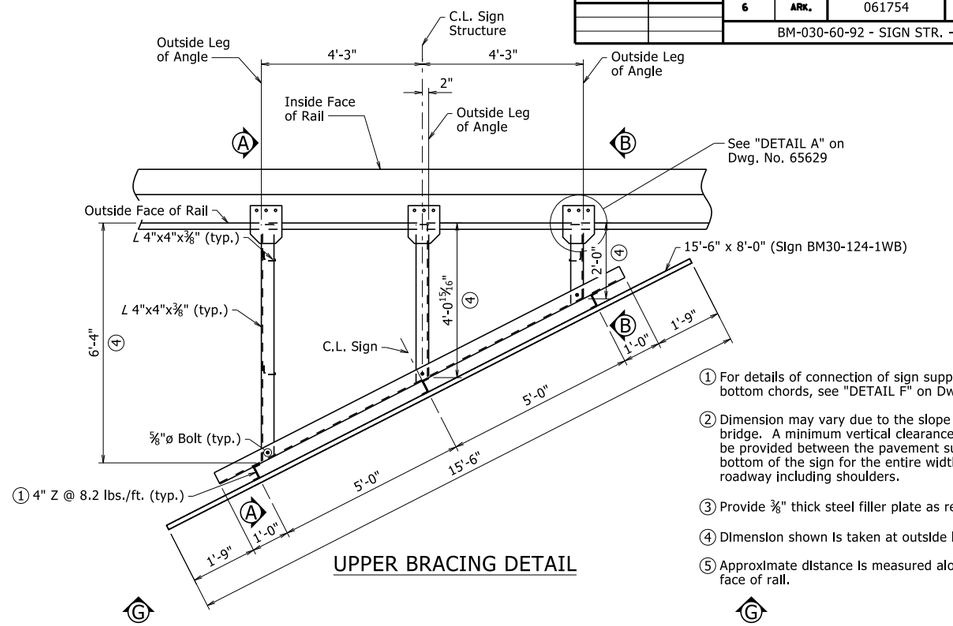
PRINT DATE: 7/28/2022

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	95	105
		BM-030-60-92 - SIGN STR. - 65619				



VIEW G-G (NORMAL TO BRIDGE)

Looking in the Direction of Westbound Traffic



UPPER BRACING DETAIL

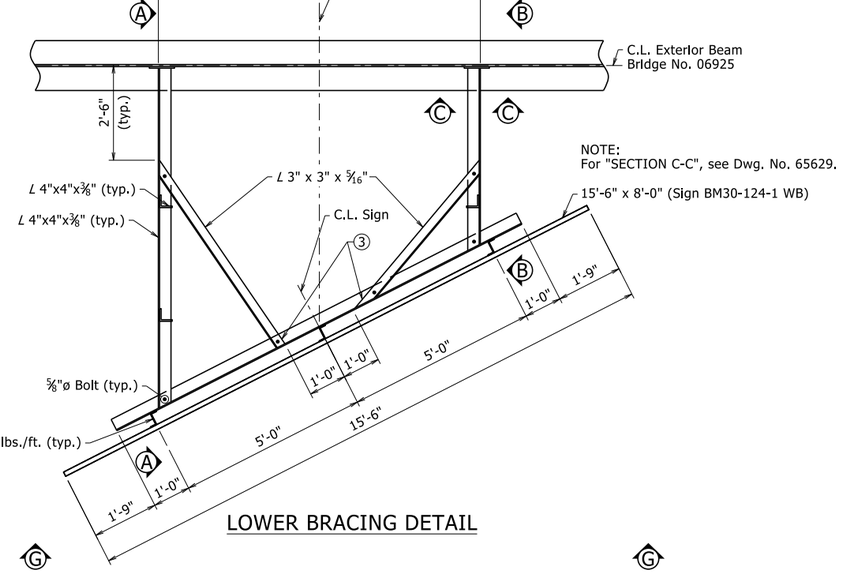
① For details of connection of sign support to top and bottom chords, see "DETAIL F" on Dwg. No. 65629.

② Dimension may vary due to the slope of the existing bridge. A minimum vertical clearance of 17'-6" shall be provided between the pavement surface and the bottom of the sign for the entire width of the roadway including shoulders.

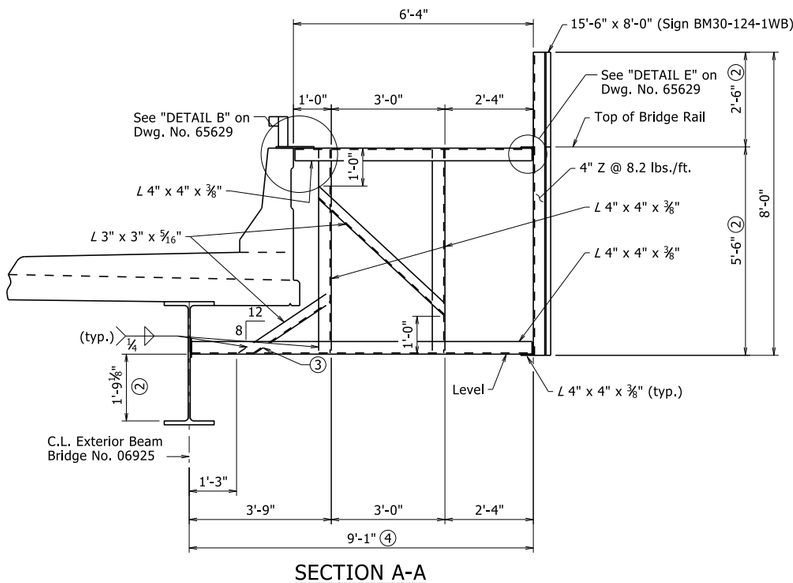
③ Provide ⅜" thick steel filler plate as required.

④ Dimension shown is taken at outside leg of angle.

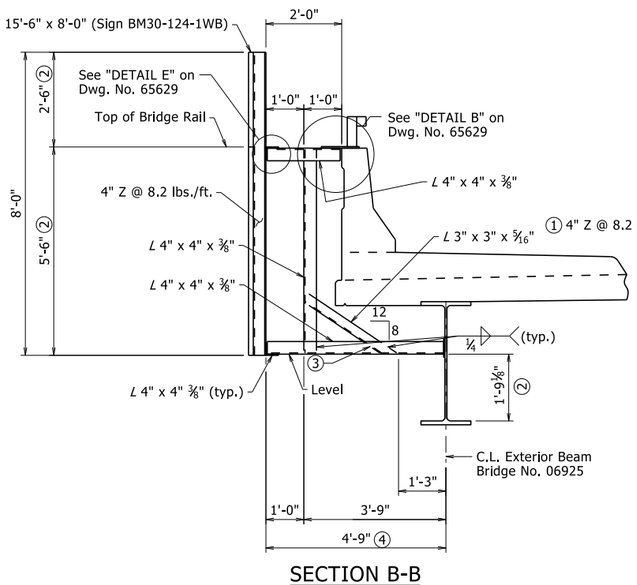
⑤ Approximate distance is measured along outside face of rail.



LOWER BRACING DETAIL



SECTION A-A



SECTION B-B

STATE OF ARKANSAS
Jul 28 2022 4:27PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

DETAILS OF SIGN STRUCTURE BM-030-60-92

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

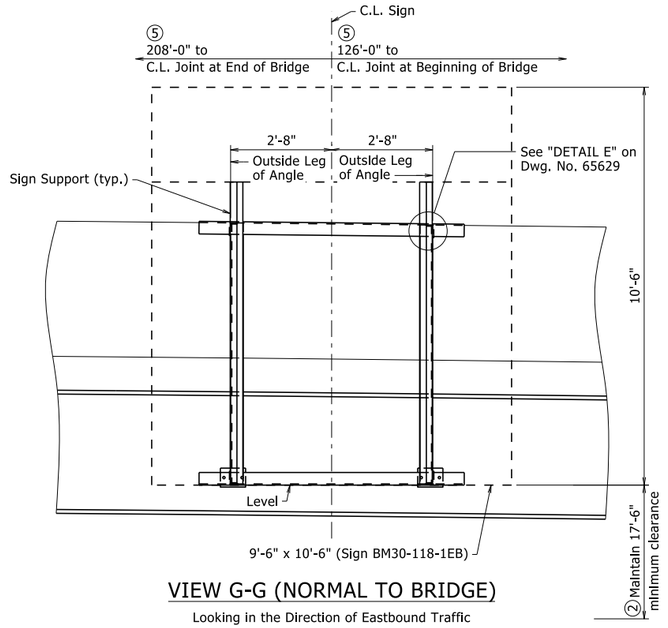
LITTLE ROCK, ARK.

DRAWN BY: CGP DATE: 05/16/2022 FILENAME: b061754_s1.dgn
CHECKED BY: MCB DATE: 06/22/2022 SCALE: 1/2" = 1'-0"
DESIGNED BY: DPT DATE: 05/2022

STR. NO. BM-030-60-92 DRAWING NO. 65619

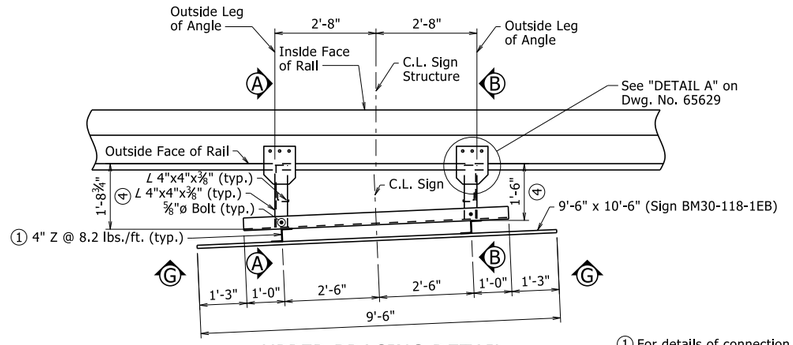
PRINT DATE: 7/28/2022

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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		BM-030-62-34 - SIGN STR. - 65620				

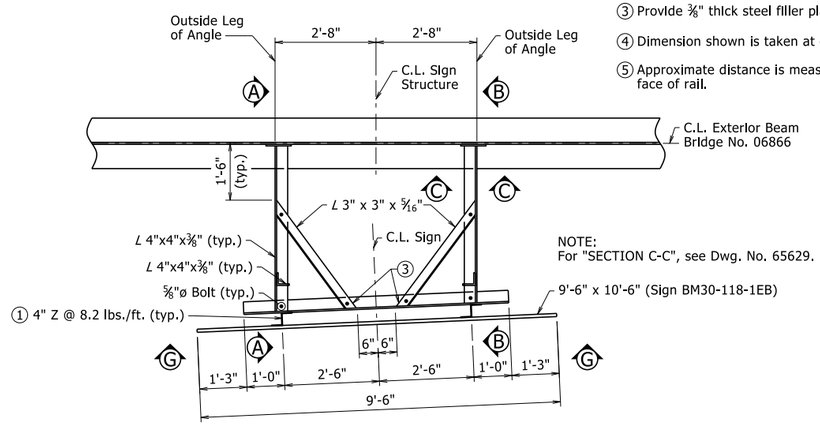


VIEW G-G (NORMAL TO BRIDGE)

Looking in the Direction of Eastbound Traffic



UPPER BRACING DETAIL



LOWER BRACING DETAIL

NOTE:
For "SECTION C-C", see Dwg. No. 65629.

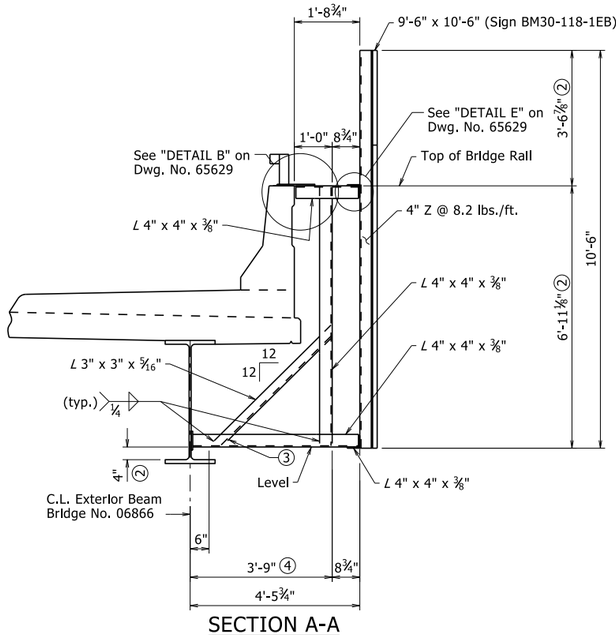
① For details of connection of sign support to top and bottom chords, see "DETAIL F" on Dwg. No. 65629.

② Dimension may vary due to the slope of the existing bridge. A minimum vertical clearance of 17'-6" shall be provided between the pavement surface and the bottom of the sign for the entire width of the roadway including shoulders.

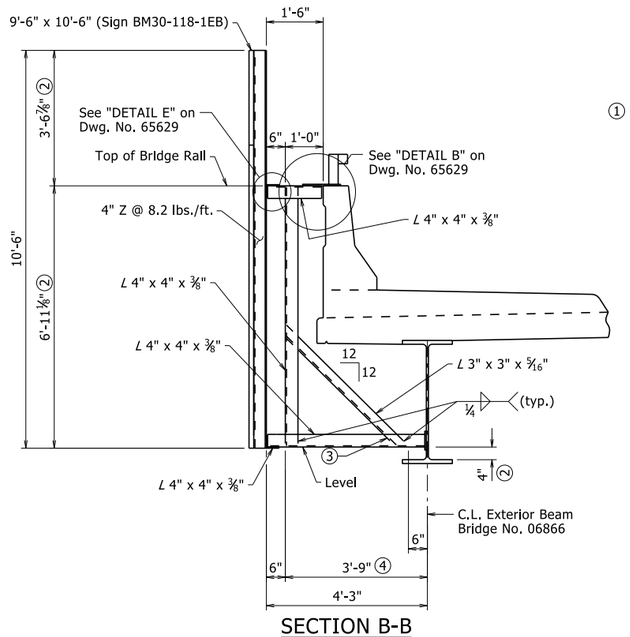
③ Provide ⅜" thick steel filler plate as required.

④ Dimension shown is taken at outside leg of angle.

⑤ Approximate distance is measured along outside face of rail.



SECTION A-A



SECTION B-B

PRINT DATE: 7/28/2022

STATE OF ARKANSAS
7/28/2022 4:27:27 PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

DETAILS OF SIGN STRUCTURE BM-030-62-34

ROUTE SEC.

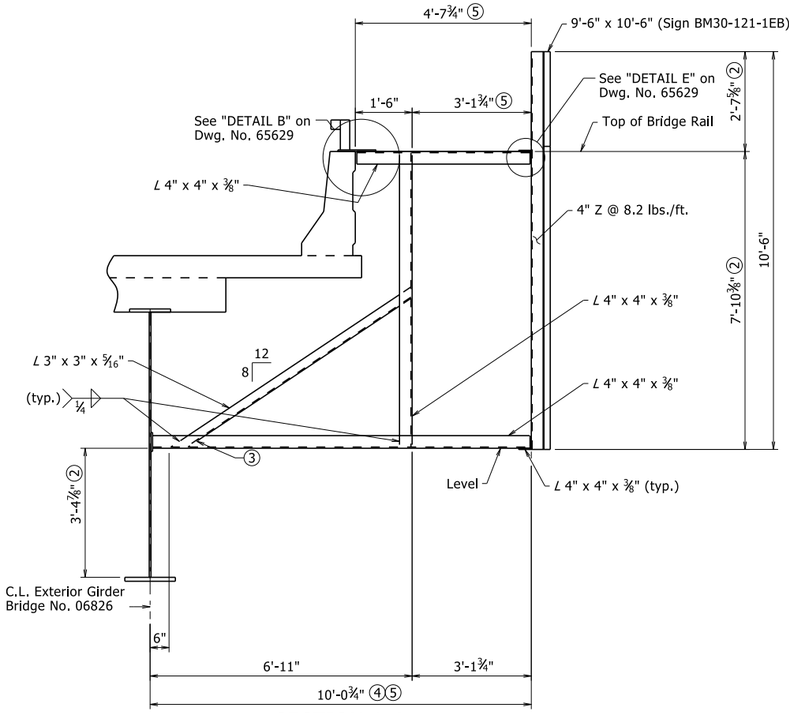
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

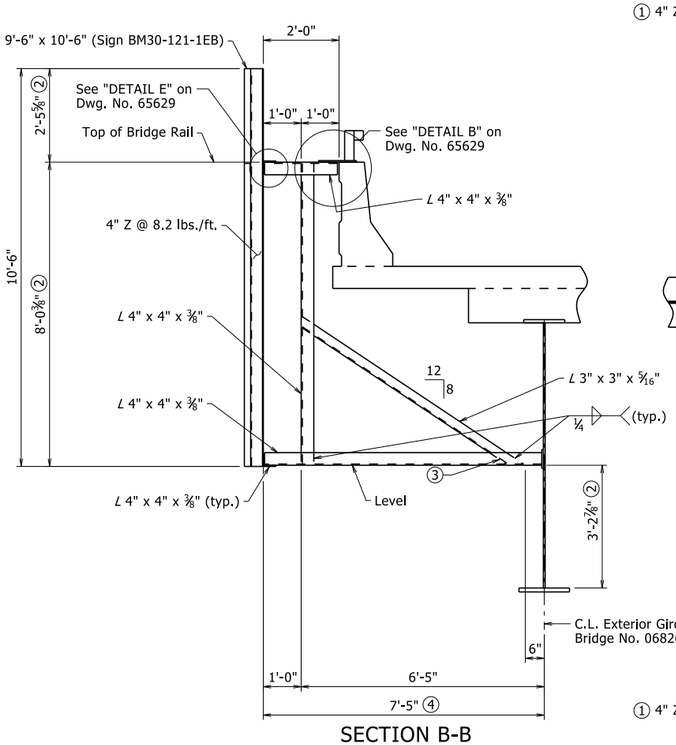
DRAWN BY:	CGP	DATE:	05/16/2022	FILENAME:	b061754_s1.dgn
CHECKED BY:	MCB	DATE:	06/22/2022	SCALE:	1/2" = 1'-0"
DESIGNED BY:	MCB	DATE:	05/2022		

STR. NO. BM-030-62-34 DRAWING NO. 65620

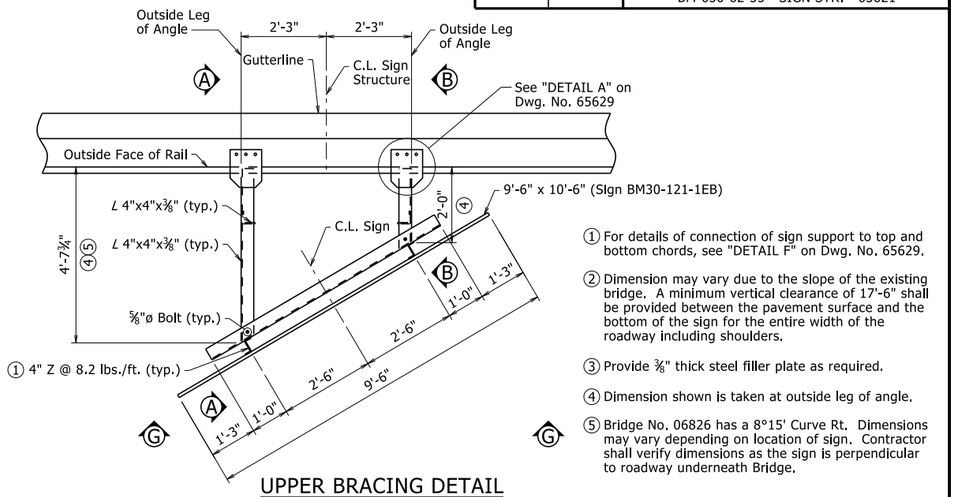
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	97	105
		BM-030-62-35 - SIGN STR. - 65621				



SECTION A-A



SECTION B-B



UPPER BRACING DETAIL

① For details of connection of sign support to top and bottom chords, see "DETAIL F" on Dwg. No. 65629.

② Dimension may vary due to the slope of the existing bridge. A minimum vertical clearance of 17'-6" shall be provided between the pavement surface and the bottom of the sign for the entire width of the roadway including shoulders.

③ Provide ⅜" thick steel filler plate as required.

④ Dimension shown is taken at outside leg of angle.

⑤ Bridge No. 06826 has a 8°15' Curve Rt. Dimensions may vary depending on location of sign. Contractor shall verify dimensions as the sign is perpendicular to roadway underneath Bridge.

NOTE:
For "SECTION C-C", see Dwg. No. 65629.

LOWER BRACING DETAIL

STATE OF ARKANSAS
Jul 28 2022 4:27 PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 1 OF 2
DETAILS OF SIGN STRUCTURE
BM-030-62-35

ROUTE SEC.

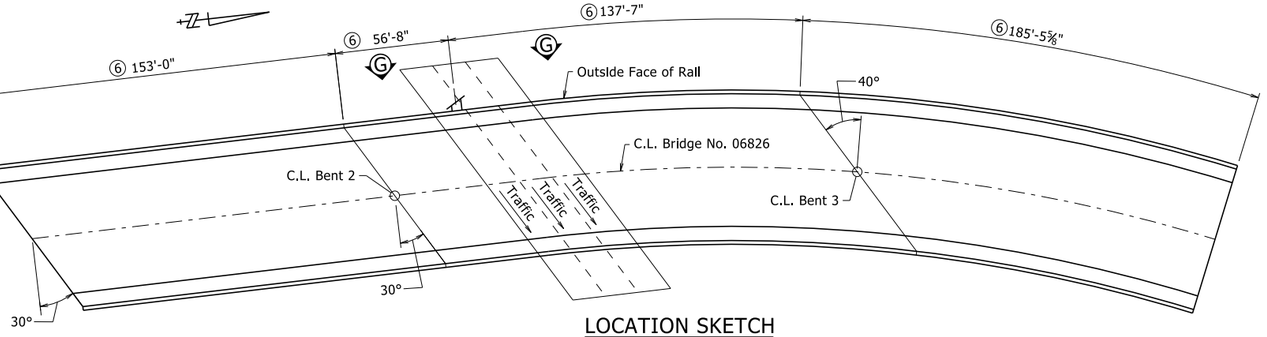
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CGP DATE: 05/16/2022 FILENAME: b061754_s1.dgn
CHECKED BY: MCB DATE: 06/22/2022 SCALE: 1/2" = 1'-0"
DESIGNED BY: MCB DATE: 05/2022

STR. NO. BM-030-62-35 DRAWING NO. 65621

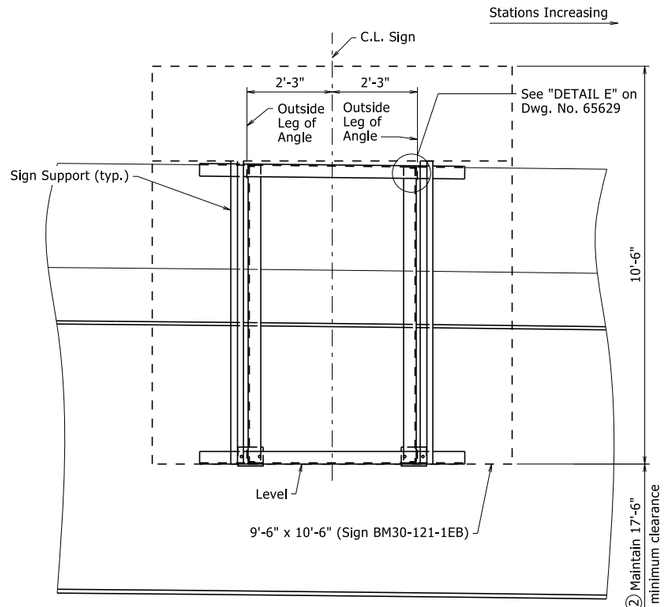
PRINT DATE: 7/28/2022

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	98	105
		BM-030-62-35 - SIGN STR. - 65622				



LOCATION SKETCH

NO SCALE



VIEW G-G (NORMAL TO BRIDGE)

Looking in the Direction of Eastbound Traffic

STATE OF ARKANSAS
07.28 2022 4:28 PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 2 OF 2
DETAILS OF SIGN STRUCTURE
BM-030-62-35

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

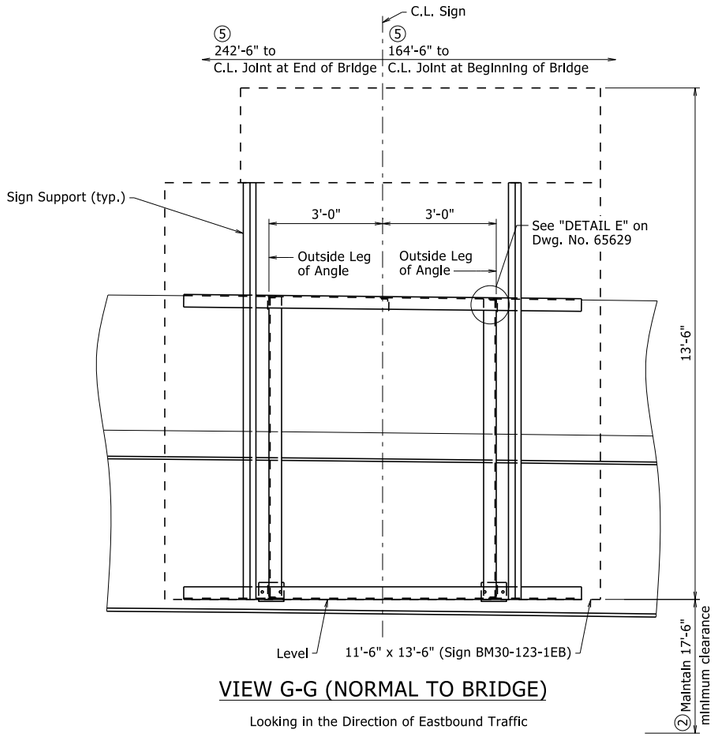
LITTLE ROCK, ARK.

DRAWN BY: CGP DATE: 05/16/2022 FILENAME: b061754_s1.dgn
CHECKED BY: MCB DATE: 06/22/2022 SCALE: NO SCALE
DESIGNED BY: MCB DATE: 05/2022

STR. NO. BM-030-62-35 DRAWING NO. 65622

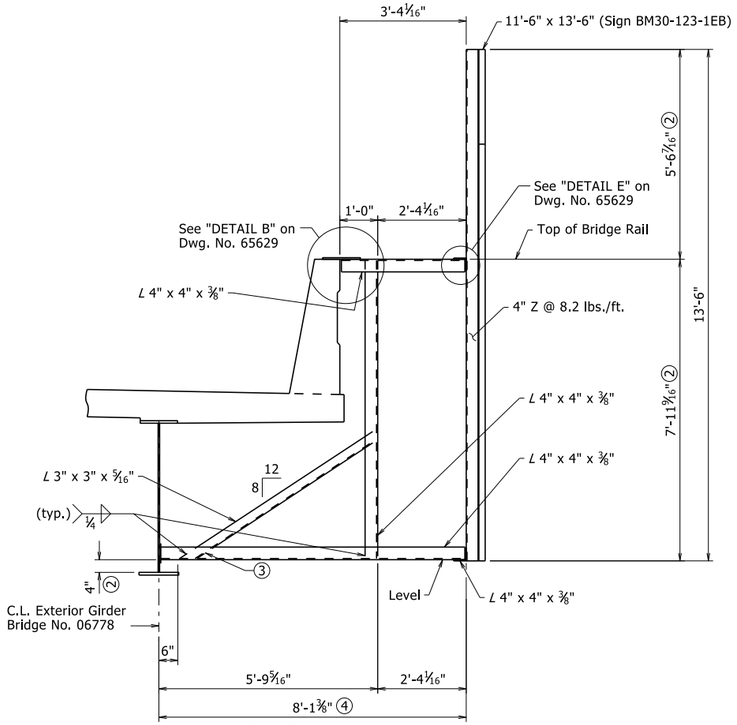
PRINT DATE: 7/28/2022

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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		BM-030-62-36 - SIGN STR. - 65623				

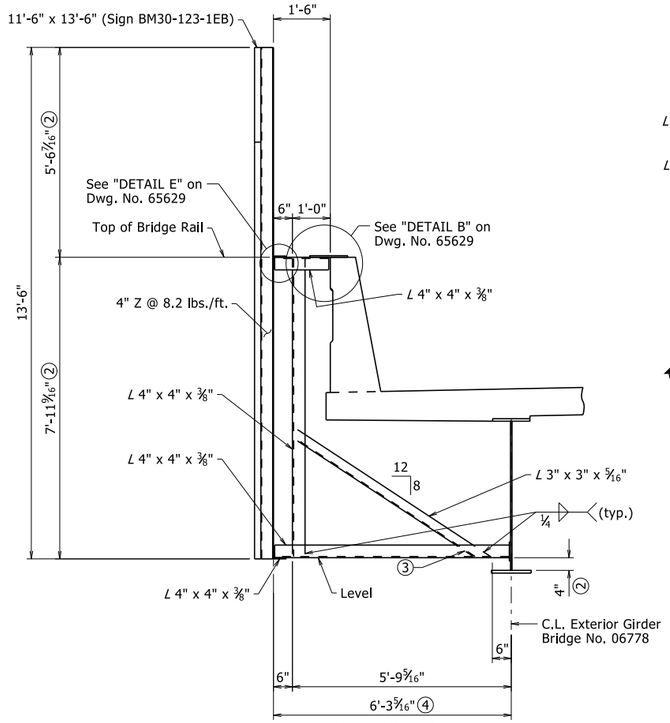


VIEW G-G (NORMAL TO BRIDGE)

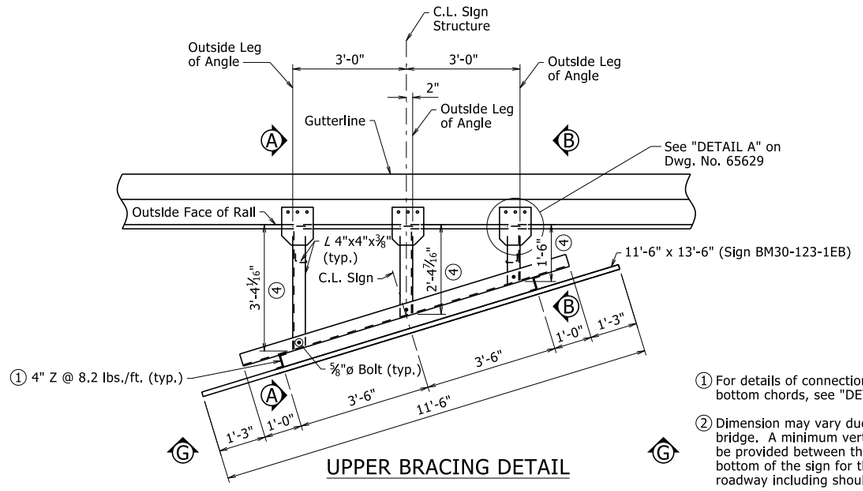
Looking in the Direction of Eastbound Traffic



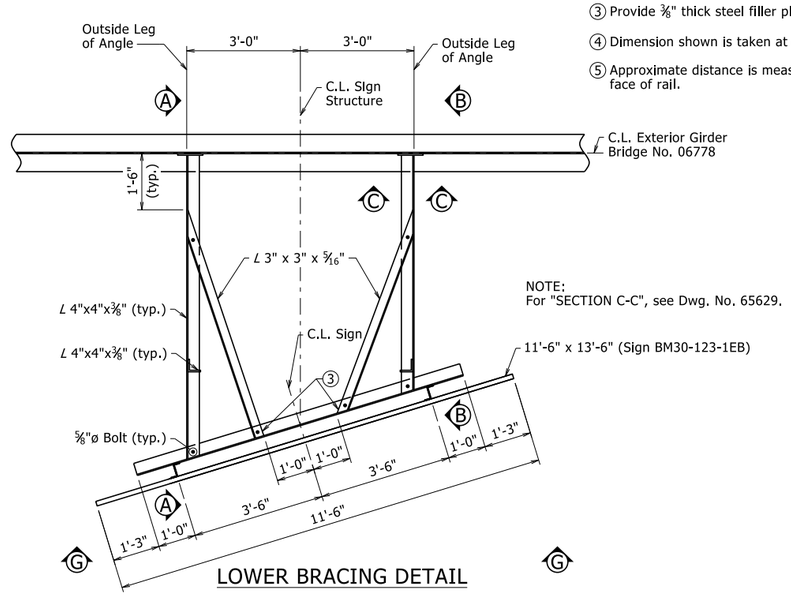
SECTION A-A



SECTION B-B



UPPER BRACING DETAIL



LOWER BRACING DETAIL

NOTE:
For "SECTION C-C", see Dwg. No. 65629.

① For details of connection of sign support to top and bottom chords, see "DETAIL F" on Dwg. No. 65629.

② Dimension may vary due to the slope of the existing bridge. A minimum vertical clearance of 17'-6" shall be provided between the pavement surface and the bottom of the sign for the entire width of the roadway including shoulders.

③ Provide 3/8" thick steel filler plate as required.

④ Dimension shown is taken at outside leg of angle.

⑤ Approximate distance is measured along outside face of rail.

STATE OF ARKANSAS
Jul 28 2022 4:28 PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

DETAILS OF SIGN STRUCTURE BM-030-62-36

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

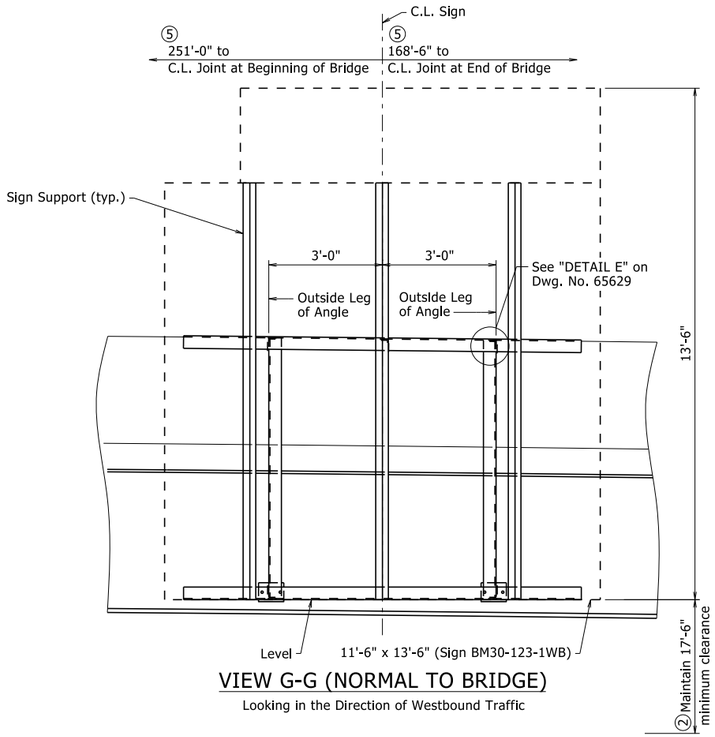
LITTLE ROCK, ARK.

DRAWN BY:	CGP	DATE:	05/16/2022	FILENAME:	b061754_s1.dgn
CHECKED BY:	MCB	DATE:	06/22/2022	SCALE:	1/2" = 1'-0"
DESIGNED BY:	DPT	DATE:	05/2022		

STR. NO. BM-030-62-36 DRAWING NO. 65623

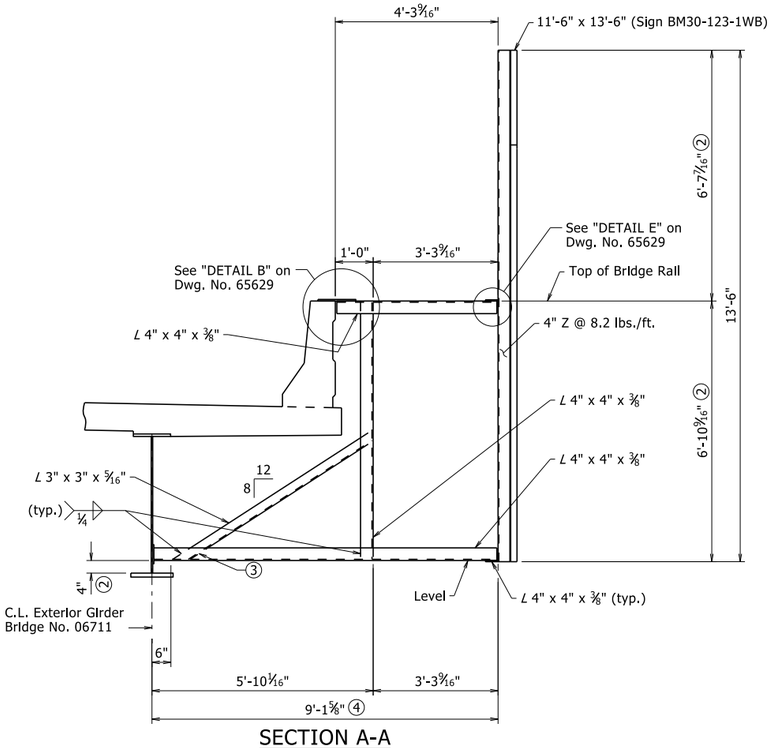
PRINT DATE: 7/28/2022

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	100	105
		BM-030-62-37 - SIGN STR. - 65624				

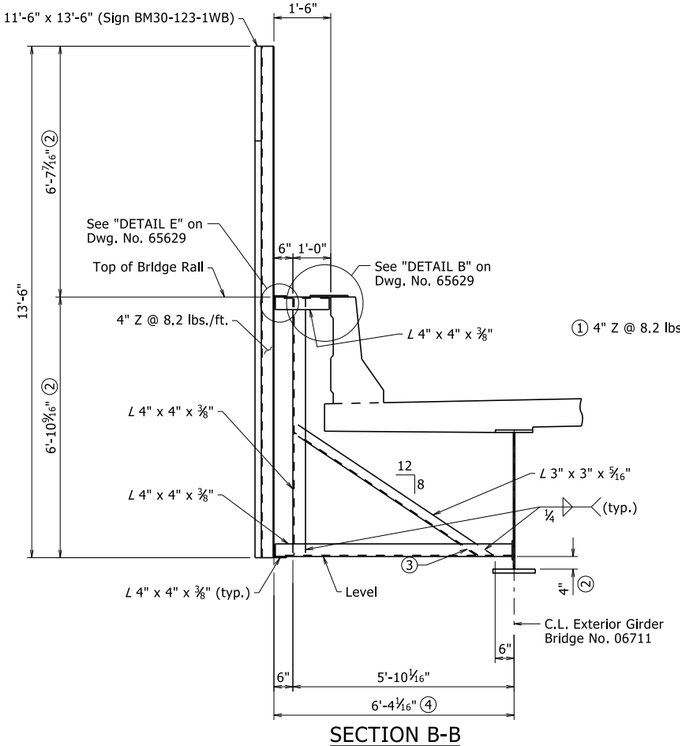


VIEW G-G (NORMAL TO BRIDGE)

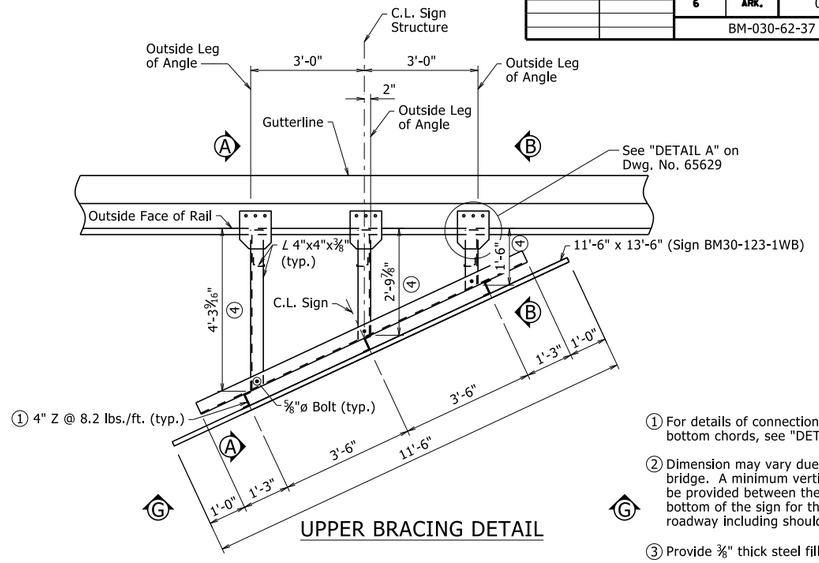
Looking in the Direction of Westbound Traffic



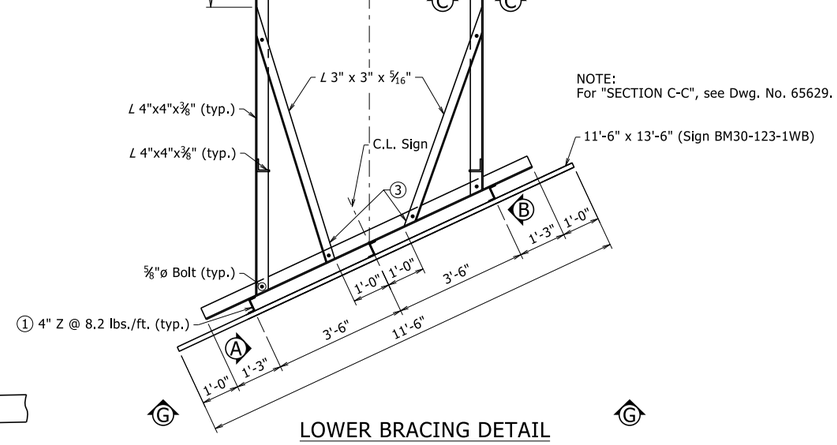
SECTION A-A



SECTION B-B



UPPER BRACING DETAIL



LOWER BRACING DETAIL

NOTE:
For "SECTION C-C", see Dwg. No. 65629.

① For details of connection of sign support to top and bottom chords, see "DETAIL F" on Dwg. No. 65629.

② Dimension may vary due to the slope of the existing bridge. A minimum vertical clearance of 17'-6" shall be provided between the pavement surface and the bottom of the sign for the entire width of the roadway including shoulders.

③ Provide 3/8" thick steel filler plate as required.

④ Dimension shown is taken at outside leg of angle.

⑤ Approximate distance is measured along outside face of rail.

STATE OF ARKANSAS
Charles R. Ellis
7/28 2022 4:28 PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

DETAILS OF SIGN STRUCTURE BM-030-62-37

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

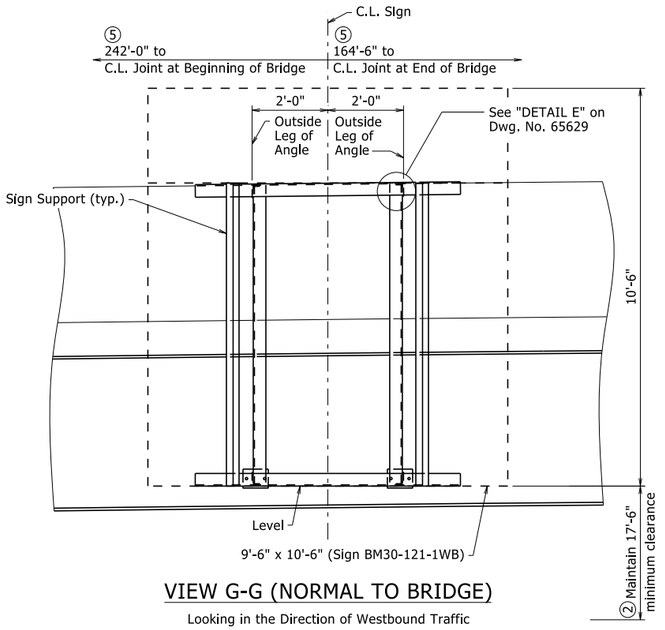
LITTLE ROCK, ARK.

DRAWN BY:	CGP	DATE:	05/16/2022	FILENAME:	b061754_s1.dgn
CHECKED BY:	MCB	DATE:	06/22/2022	SCALE:	1/2" = 1'-0"
DESIGNED BY:	DPT	DATE:	05/2022		

STR. NO. BM-030-62-37 DRAWING NO. 65624

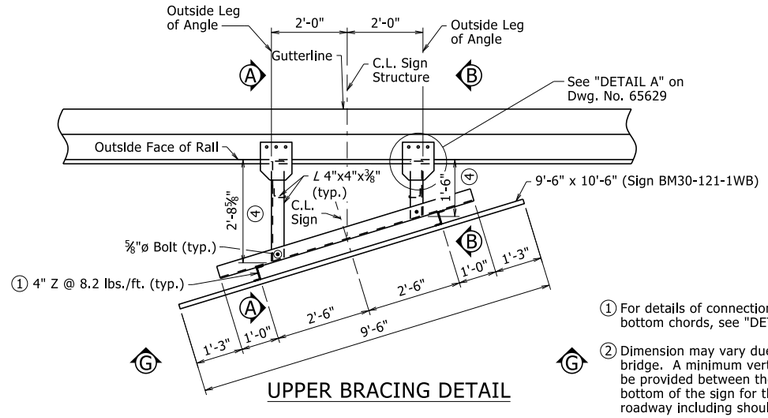
PRINT DATE: 7/28/2022

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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		BM-030-62-38 - SIGN STR. - 65625				

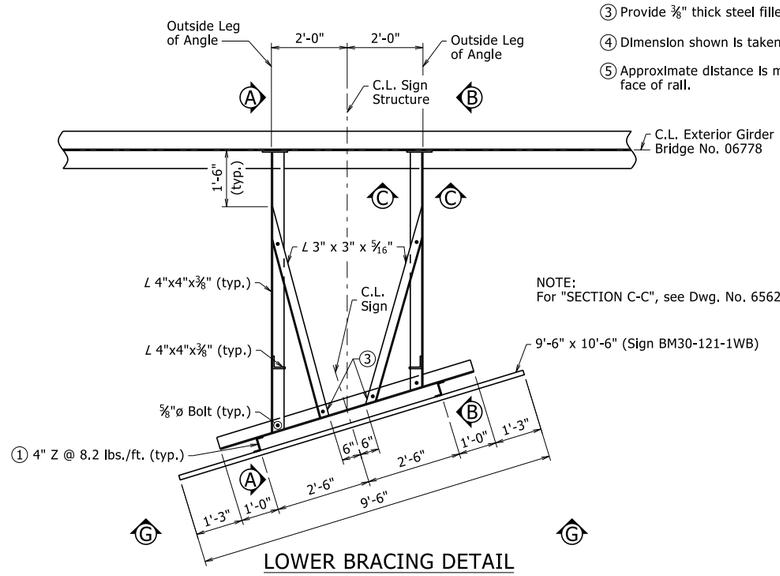


VIEW G-G (NORMAL TO BRIDGE)

Looking in the Direction of Westbound Traffic



UPPER BRACING DETAIL



LOWER BRACING DETAIL

NOTE:
For "SECTION C-C", see Dwg. No. 65629.

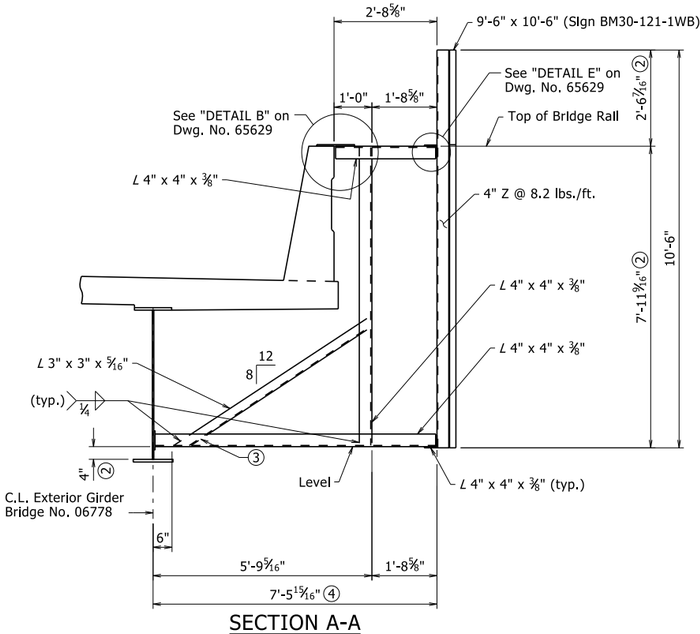
① For details of connection of sign support to top and bottom chords, see "DETAIL F" on Dwg. No. 65629.

② Dimension may vary due to the slope of the existing bridge. A minimum vertical clearance of 17'-6" shall be provided between the pavement surface and the bottom of the sign for the entire width of the roadway including shoulders.

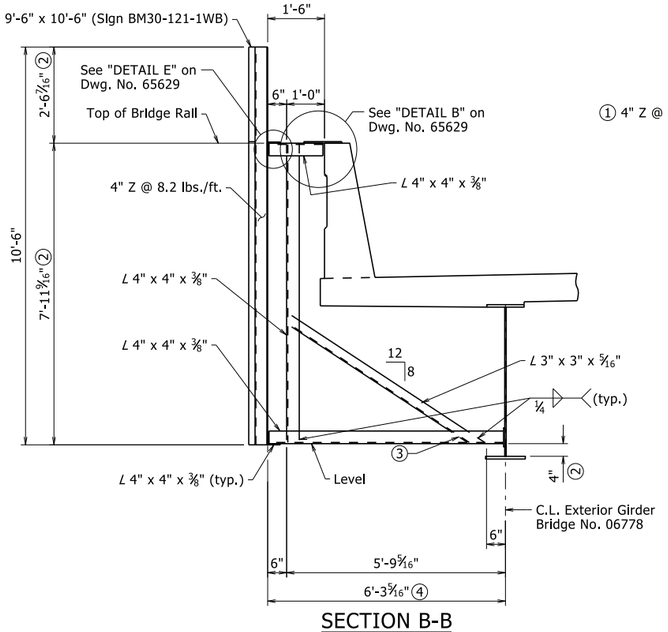
③ Provide ⅜" thick steel filler plate as required.

④ Dimension shown is taken at outside leg of angle.

⑤ Approximate distance is measured along outside face of rail.



SECTION A-A



SECTION B-B

STATE OF ARKANSAS
07.28 2022 4:28 PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

DETAILS OF SIGN STRUCTURE
BM-030-62-38

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

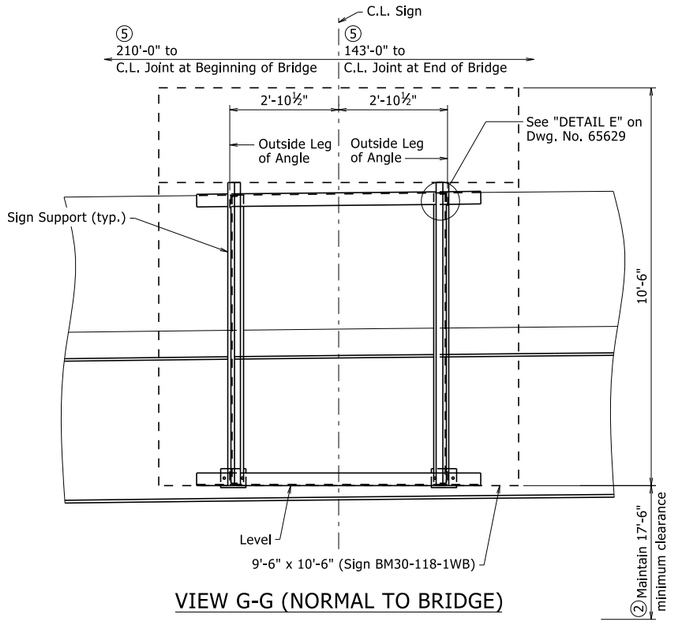
LITTLE ROCK, ARK.

DRAWN BY: CGP DATE: 05/16/2022 FILENAME: b061754_s1.dgn
CHECKED BY: MCB DATE: 06/22/2022 SCALE: 1/2" = 1'-0"
DESIGNED BY: DPT DATE: 05/2022

STR. NO. BM-030-62-38 DRAWING NO. 65625

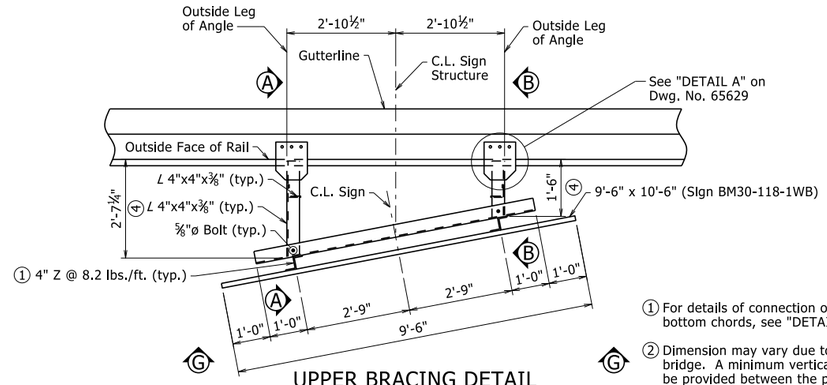
PRINT DATE: 7/28/2022

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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		BM-030-62-39 - SIGN STR. - 65626				

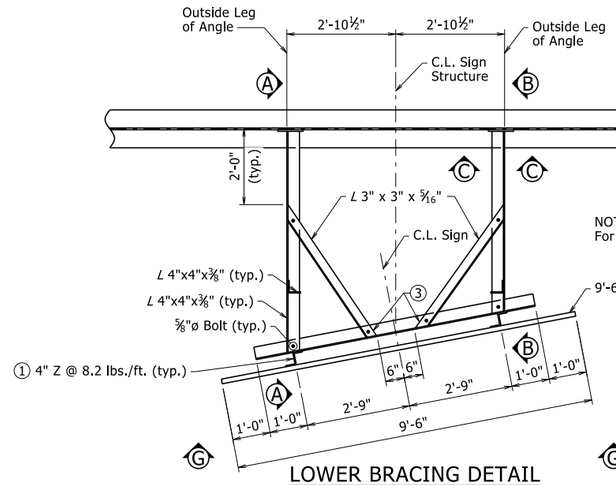


VIEW G-G (NORMAL TO BRIDGE)

Looking in the Direction of Westbound Traffic



UPPER BRACING DETAIL



NOTE:
For "SECTION C-C", see Dwg. No. 65629.

LOWER BRACING DETAIL

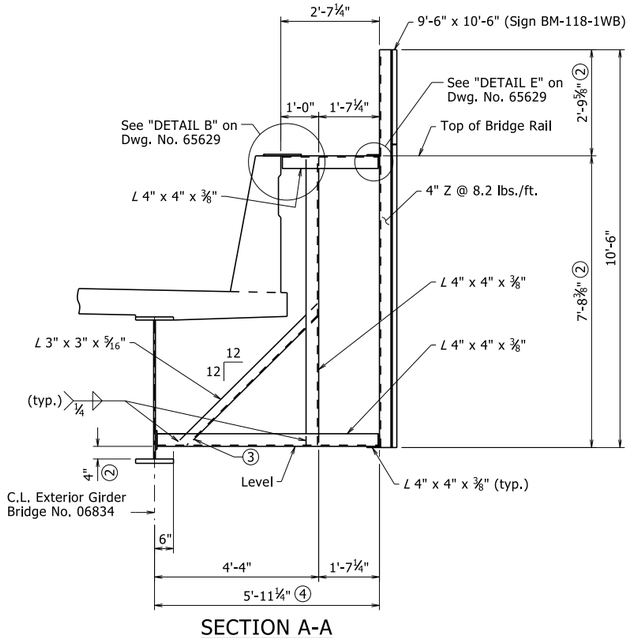
① For details of connection of sign support to top and bottom chords, see "DETAIL F" on Dwg. No. 65629.

② Dimension may vary due to the slope of the existing bridge. A minimum vertical clearance of 17'-6" shall be provided between the pavement surface and the bottom of the sign for the entire width of the roadway including shoulders.

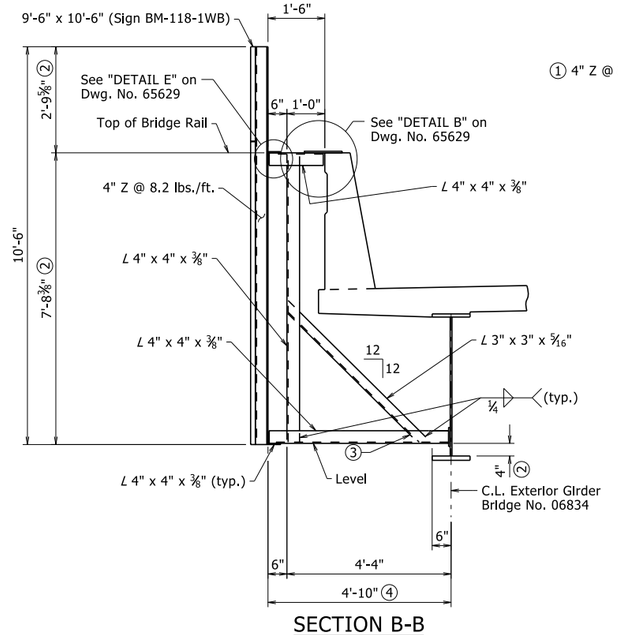
③ Provide ⅜" thick steel filler plate as required.

④ Dimension shown is taken at outside leg of angle.

⑤ Approximate distance is measured along outside face of rail.



SECTION A-A



SECTION B-B

STATE OF ARKANSAS
07.28 2022 4:28 PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

DETAILS OF SIGN STRUCTURE BM-030-62-39

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

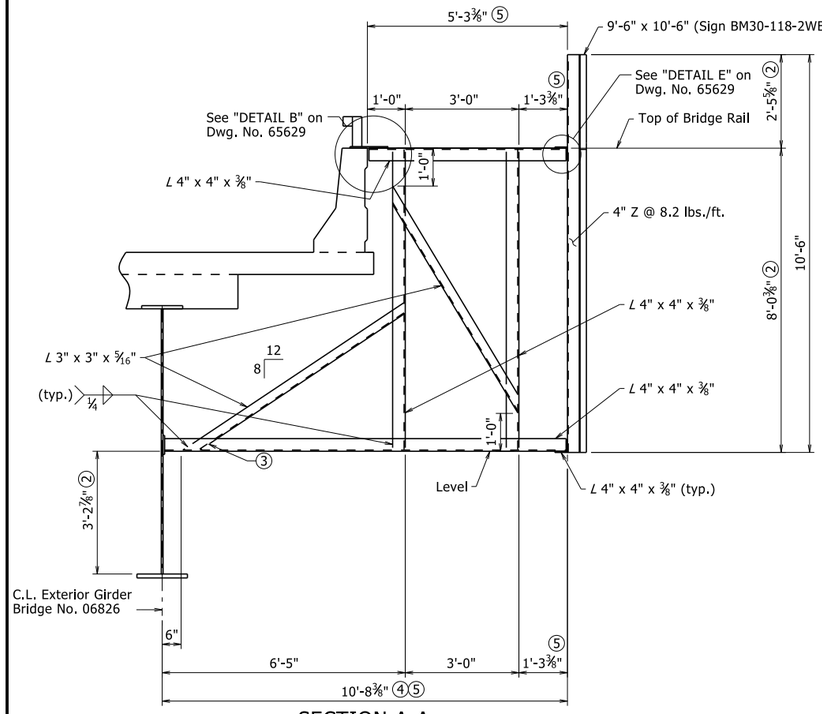
LITTLE ROCK, ARK.

DRAWN BY: CGP DATE: 05/16/2022 FILENAME: b061754_s1.dgn
CHECKED BY: MCB DATE: 06/22/2022 SCALE: 1/2" = 1'-0"
DESIGNED BY: MCB DATE: 05/2022

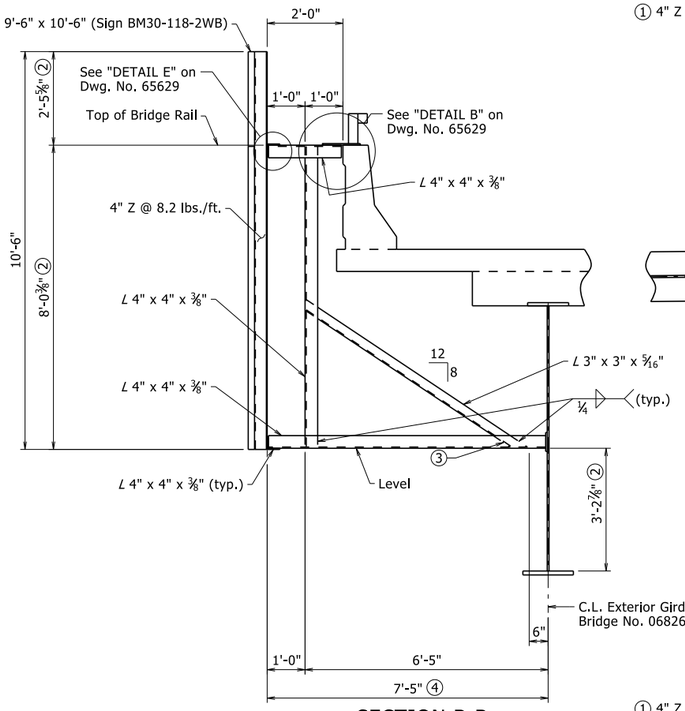
STR. NO. BM-030-62-39 DRAWING NO. 65626

PRINT DATE: 7/28/2022

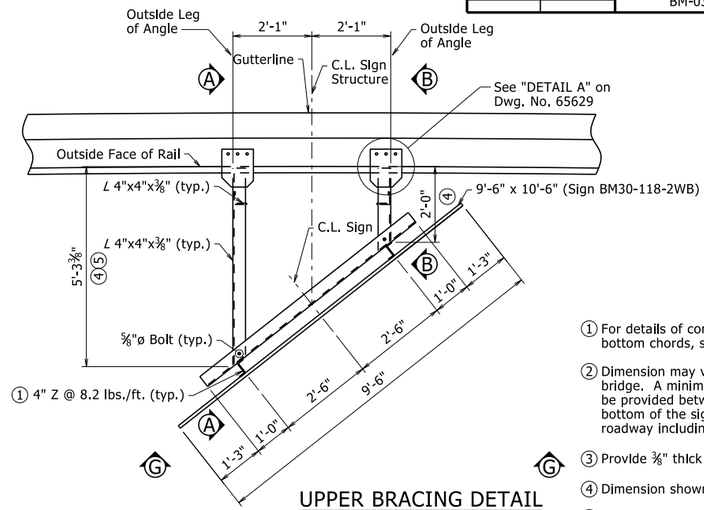
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	103	105
		BM-030-62-40 - SIGN STR. - 65627				



SECTION A-A

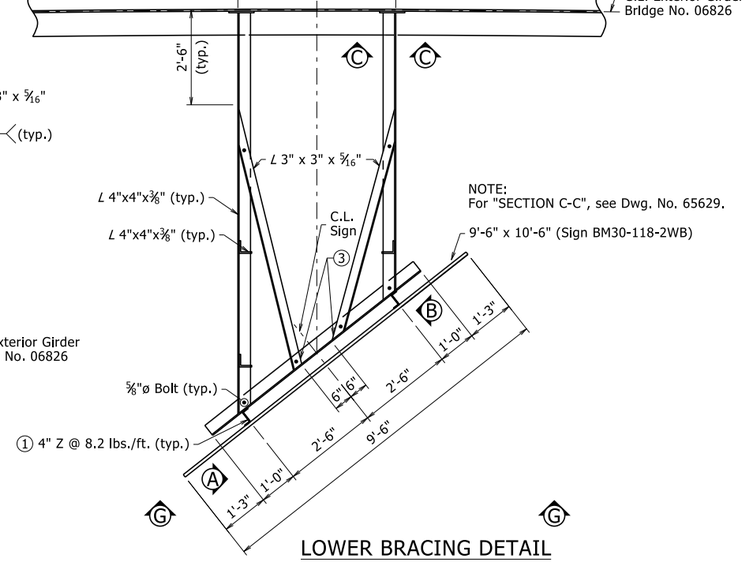


SECTION B-B



UPPER BRACING DETAIL

1. For details of connection of sign support to top and bottom chords, see "DETAIL F" on Dwg. No. 65629.
2. Dimension may vary due to the slope of the existing bridge. A minimum vertical clearance of 17'-6" shall be provided between the pavement surface and the bottom of the sign for the entire width of the roadway including shoulders.
3. Provide ⅜" thick steel filler plate as required.
4. Dimension shown is taken at outside leg of angle.
5. Bridge No. 06826 has a 8°15' Curve Rt. Dimensions may vary depending on location of sign. Contractor shall verify dimensions as the sign is perpendicular to roadway underneath Bridge.



LOWER BRACING DETAIL

STATE OF ARKANSAS
Jul 28 2022 4:28 PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 1 OF 2
DETAILS OF SIGN STRUCTURE
BM-030-62-40

ROUTE SEC.

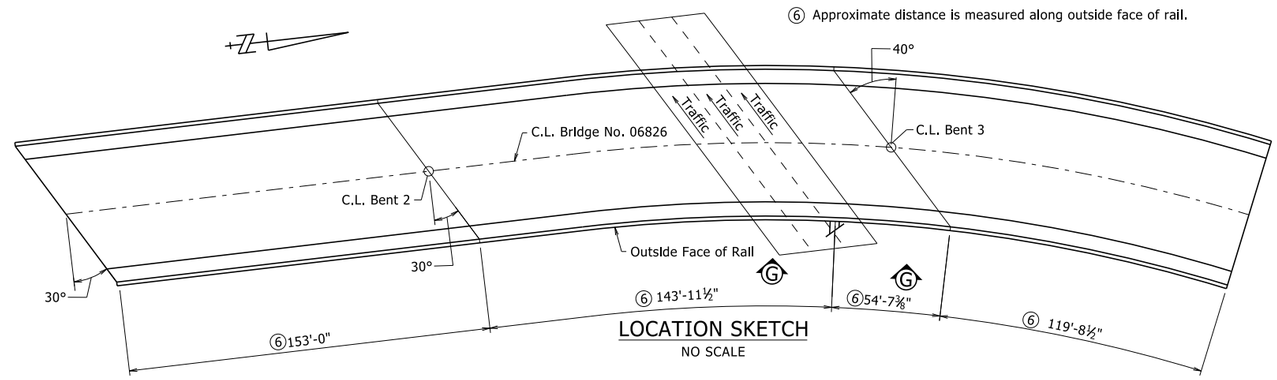
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CGP DATE: 05/16/2022 FILENAME: b061754_s1.dgn
CHECKED BY: MCB DATE: 06/22/2022 SCALE: 1/2" = 1'-0"
DESIGNED BY: MCB DATE: 05/2022

STR. NO. BM-030-62-40 DRAWING NO. 65627

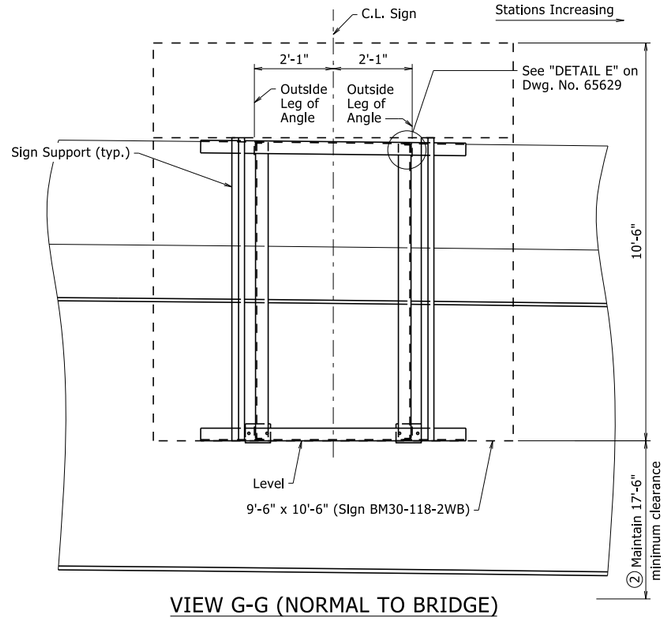
PRINT DATE: 7/28/2022

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061754	104	105
		BM-030-62-40 - SIGN STR. - 65628				



LOCATION SKETCH

NO SCALE



VIEW G-G (NORMAL TO BRIDGE)

Looking in the Direction of Westbound Traffic

STATE OF ARKANSAS
Jul 28 2022 4:28 PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS

BRIDGE ENGINEER

SHEET 2 OF 2
DETAILS OF SIGN STRUCTURE
BM-030-62-40

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: CGP DATE: 05/16/2022 FILENAME: b061754_s1.dgn
CHECKED BY: MCB DATE: 06/22/2022 SCALE: NO SCALE
DESIGNED BY: MCB DATE: 05/2022

STR. NO. BM-030-62-40 DRAWING NO. 65628

PRINT DATE: 7/28/2022

STRUCTURE NO.	DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
BM-030-60-91			6	ARK.	061754	105	105
BM-030-60-92			SEE TABLE - SIGN STR. - 65629				
BM-030-62-34							
BM-030-62-35							
BM-030-62-36							
BM-030-62-37							
BM-030-62-38							
BM-030-62-39							
BM-030-62-40							

GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 2014, with applicable Special Provisions and Supplemental Specifications.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals, 2013 (Sixth Edition) with current interim revisions.

Basic Wind Speed = 90 m.p.h.

Fatigue Category 1

Structural steel sign support members shall comply with the following specifications:

Angles:	ASTM A709, Grade 36 (Fy = 36,000 psi.)
Plate:	ASTM A709, Grade 50 (Fy = 50,000 psi.)
Z-Shapes:	ASTM A709, Grade 36 (Fy = 36,000 psi.)
Bolts:	ASTM F3125, Grade A325, Type 1
Locknuts:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H
Washers:	ASTM F436
Nuts:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H

All steel shall be galvanized according to Subsection 807.19. Steel completely encased in concrete need not be galvanized. Galvanized coating damaged during transport, handling, or erection shall be field repaired in accordance with Subsection 807.88.

Drawings show general features of design only. Shop drawings shall be made in accordance with Subsection 807.04, submitted, and approval secured before fabrication is begun.

Requests for substitution of structural steel shapes shown with shapes of greater size must be submitted by the Contractor to the Engineer for approval. Steels of equal or greater strengths will be accepted only when shown on the approved shop drawings. Shapes and materials shown in the plans will be the basis of payment and no additional compensation will be made for any adjustments due to substitutions.

All welding that is to be done during fabrication of structural steel, including temporary welds, shall be detailed on the shop drawings and submitted for approval. If additional welds are required, whether temporary or permanent, a formal request with detailed drawings shall be submitted to the Engineer for approval. All welding shall conform to Subsection 807.26.

Connections shall be bolted with high-strength bolts. Unless noted otherwise, bolts shall be ⅝" diameter and open holes shall be ¾" diameter. Bolt spacing shall be 2¼" for ⅝" diameter bolts unless otherwise noted. Bolts shall be placed with heads on the outside face of all members.

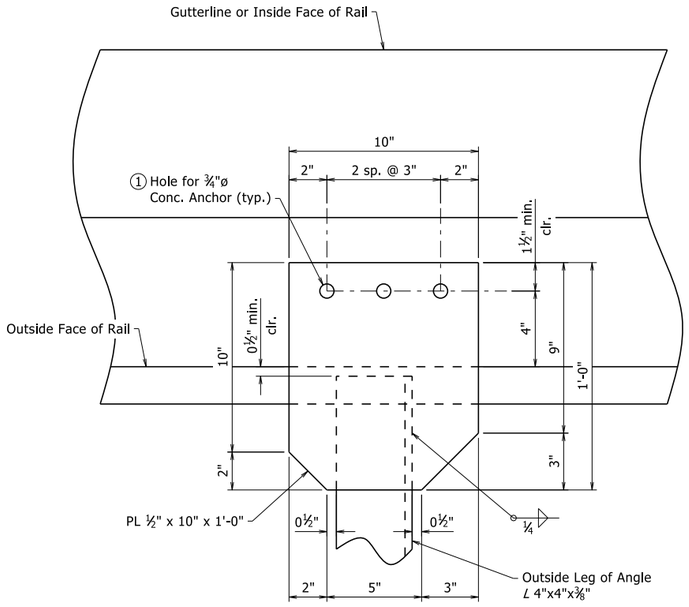
All frame bolts shall comply with ASTM F3125, Grade A325 Type 1, and shall be galvanized according to Subsection 807.06. Nuts and washers for ASTM F3125, Grade A325 Type 1 bolts shall be furnished and galvanized in accordance with Subsection 807.06.

Locknuts to be equipped with nylon locking inserts or other approved type locking system. Locknuts to be installed according to manufacturer's recommendations.

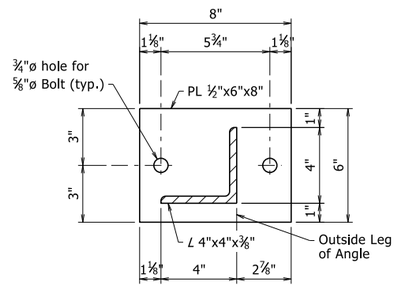
Surfaces of plates in contact with concrete or beam web shall be coated with a thick layer of asphaltic paint and allowed to dry before erection. Preformed pads ⅛" thick conforming to Section 808 may be used in lieu of asphaltic paint coating for steel plates in contact with girder web or concrete parapet.

Dimensions shown are based on existing Bridge plans. The Contractor shall make check measurements in the field and make any adjustments necessary to fit the structures to the bridge and avoid any splice plates, diaphragms, parapet joints or hand rail supports on the bridge. This may include shifting the sign structures with approval from the Engineer. Measurements and adjustments shall be made prior to submittal of shop drawings.

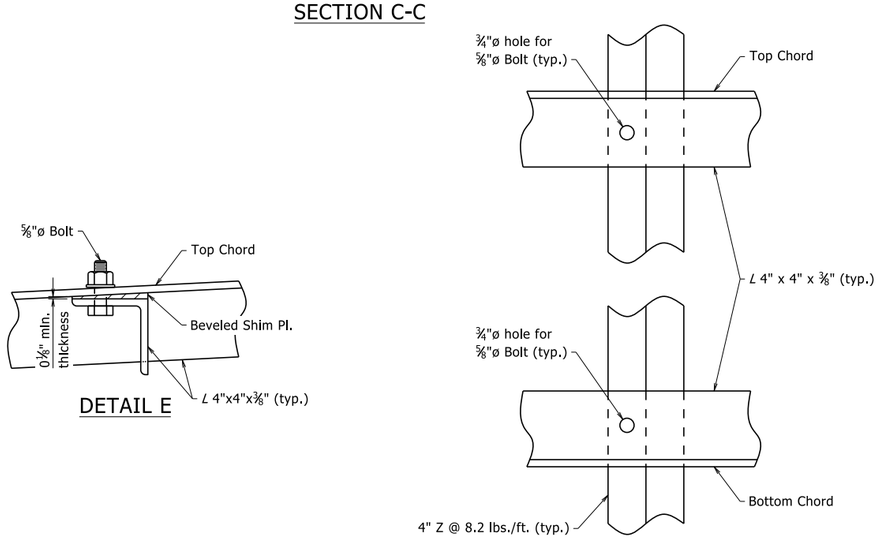
Portions of existing bridge affected by removal of existing signs or installation of the new sign shall be repaired at the direction and to the satisfaction of the Engineer. Holes in concrete shall be filled with an approved grout. Open holes in steel shall be filled with properly sized and tensioned high strength bolts. Damaged structural steel coatings shall be repaired as required.



DETAIL A



SECTION C-C



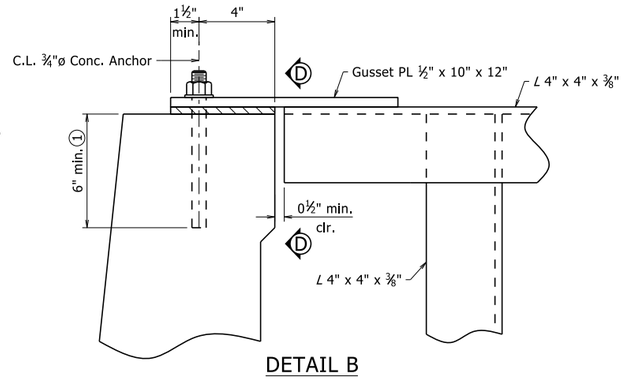
DETAIL F

DETAIL E

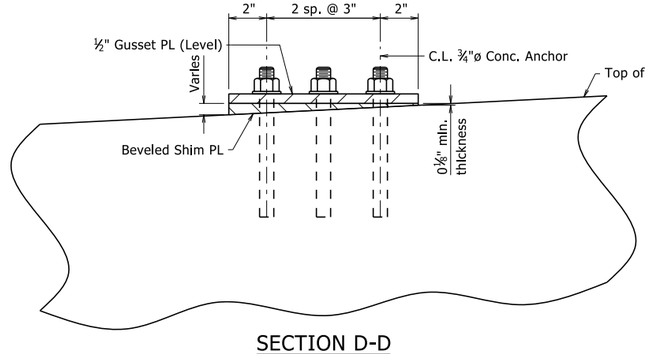
① The concrete anchors shall be drilled and grouted into place. The anchors shall be set and fixed using a QPL approved resin anchoring system in accordance with the manufacturer's recommendations and shall have the following ultimate capacities:

Shear 10,000 lbs.
Tension 9,000 lbs.

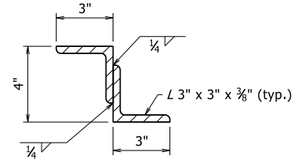
The concrete anchors shall be positioned to ensure that anchors are clear of parapet rail reinforcement.



DETAIL B



SECTION D-D



Structural Z Sign Support may be fabricated from angles as shown

DETAILS OF ALTERNATIVE Z SIGN SUPPORT

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS

BRIDGE ENGINEER

COMMON DETAILS OF STEEL BRIDGE MOUNTED SIGN STRUCTURES

ROUTE SEC.

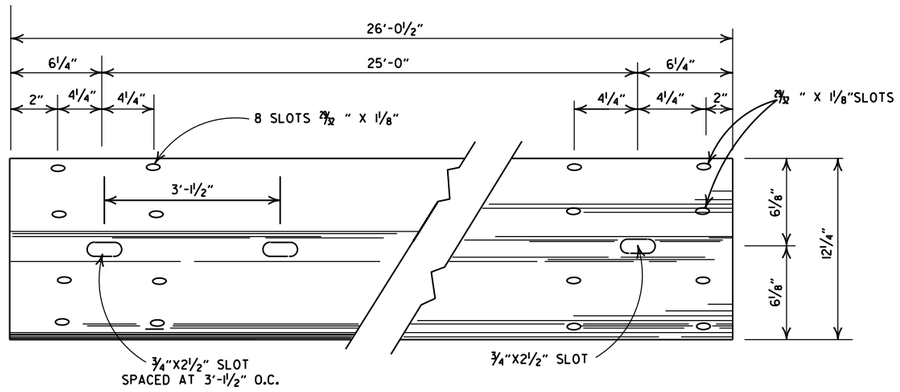
ARKANSAS STATE HIGHWAY COMMISSION

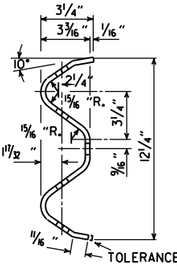
LITTLE ROCK, ARK.

DRAWN BY: CGP DATE: 05/16/2022 FILENAME: b061754_s1.dgn
CHECKED BY: MCB DATE: 06/22/2022 SCALE: 3" = 1'-0"
DESIGNED BY: MCB DATE: 05/2022

STR. NO. SEE TABLE DRAWING NO. 65629

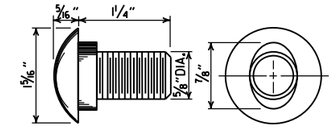
PRINT DATE: 7/28/2022



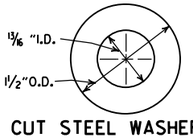


DETAILS OF W-BEAM GUARDRAIL

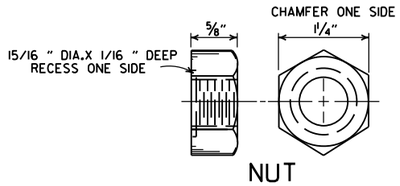
RAIL SECTION OF CLOSELY SIMILAR DIMENSIONS AND COMPARABLE STRENGTH MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.



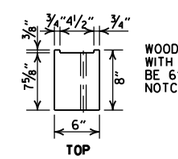
SPLICE BOLT
POST BOLT - SAME EXCEPT LENGTH



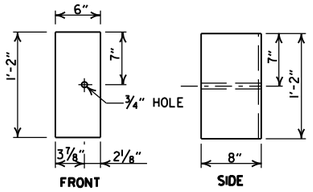
CUT STEEL WASHER



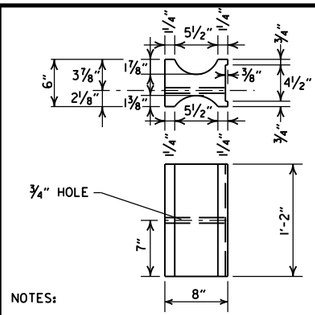
NUT



WOOD BLOCKOUT USED WITH WOOD POSTS SHALL BE 6"x8"xl'-2" WITH NO NOTCH REQUIRED.



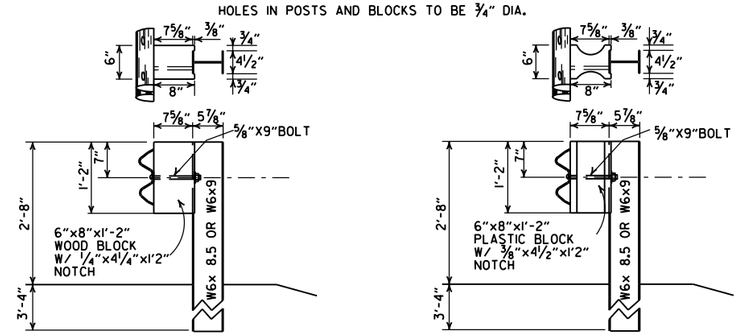
WOOD BLOCKOUT (W-BEAM)



NOTES:

1. SIMILAR SHAPED PLASTIC BLOCKOUTS MAY BE USED AS LONG AS THEY MEET REQUIREMENTS FOR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
2. DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES.

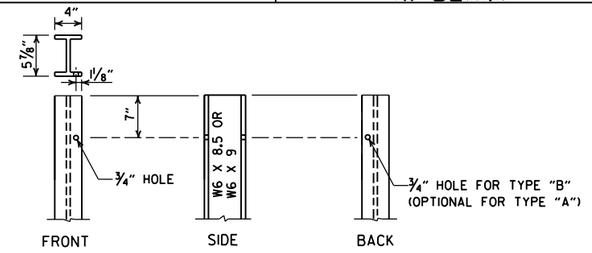
PLASTIC BLOCKOUT (W-BEAM)



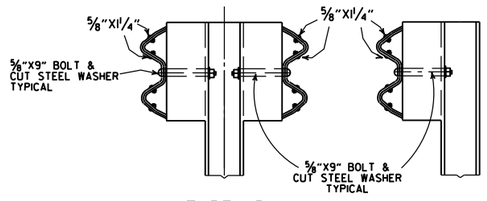
WOOD BLOCKOUT CONNECTIONS

PLASTIC BLOCKOUT CONNECTIONS

DETAILS OF STEEL LINE POST CONNECTIONS (W-BEAM)



STEEL POST



TYPE "B" TYPE "A"

DETAILS OF STEEL LINE POST CONNECTIONS (W-BEAM)

-GENERAL NOTES-

ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN ¾" BEYOND IT.

WHERE W-BEAM GUARDRAIL CONTINUES, THE INTERMEDIATE SECTIONS SHALL HAVE A POST SPACING OF 6'-3" UNLESS OTHERWISE NOTED.

W-BEAM GUARDRAIL REPRESENTING INTERMEDIATE SECTIONS WILL BE MEASURED ALONG THE ROADWAY FACE FROM CENTERLINE OF POST TO CENTERLINE OF POST.

USE W-BEAM GUARDRAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB. FOR EXTENSIONS OR MODIFICATION OF EXISTING GUARDRAIL, W-BEAM GUARDRAIL COMPONENTS OF THE SAME TYPE AS THOSE EXISTING SHALL BE USED.

ANY BACKFILLING UNDER OR AROUND POST SHALL BE DAMP SAND THOROUGHLY TAMPED IN PLACE.

WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7f (1400 f) OR NO. 1 1350 f SOUTHERN PINE.

CONTRACTOR SHALL HAVE THE OPTION OF USING WOOD BLOCKOUTS FOR W-BEAM GUARDRAIL OR PLASTIC BLOCKOUTS, AS LONG AS BLOCKOUT USED MEETS REQUIREMENTS FOR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) FOR W-BEAM GUARDRAIL.

WOOD BLOCKOUT CONNECTIONS

PLASTIC BLOCKOUT CONNECTIONS

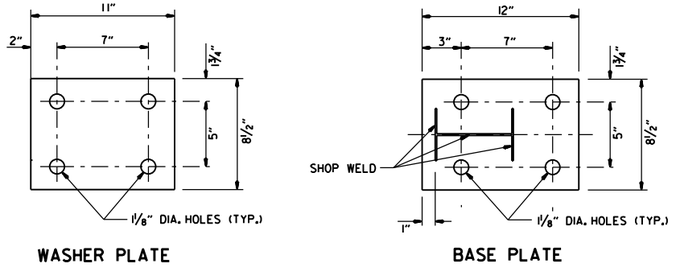
DETAILS OF WOOD LINE POST CONNECTIONS (W-BEAM)

DATE	REVISION	FILMED
11-07-19	RENUMBERED AND RENAMED	
11-16-17	REVISED GENERAL NOTES AND RAISED GUARDRAIL HEIGHT 3"	
07-14-10	RAISED HEIGHT OF GUARDRAIL 1"	
10-15-09	ADDED REFERENCE TO MASH	
04-10-03	REVISED GENERAL NOTES	
08-22-02	REVISED DIMENSION ON WOOD & PLASTIC BLOCKOUT CONNECTIONS & STEEL POST	
11-16-01	REVISED WOOD BLOCKOUT & DETAILS OF WOOD LINE POST CONNECTIONS	
03-30-00	REMOVED GUARDRAIL AT BRIDGE ENDS	
01-12-00	ADDED PLASTIC BLOCKOUT	
08-12-98	REV. BLOCKOUTS TO WOOD, DELETED CONC. POST & REV. GENERAL NOTE, DELETED DET. OF GUARDRAIL REPLACE. BEHIND CURB & DET. OF POST PLACE. IN SOLID ROCK, & ADDED DETAILS OF STEEL LINE POST CONN. REMOVED BACK-UP PLATE, REVISED HOLES IN STEEL POLES	
04-03-97	REMOVED "LAP IN DIRECTION OF TRAFFIC" NOTE & PLACED ARROWS ON WASHERS	
10-18-96	REVISED WOOD POST NOTE	
06-02-94	ADDED ALT. STEEL POST SIZE	
08-05-93	REVISED STEEL POST SIZE	8-5-93
10-01-92	REDRAWN & REVISED	10-1-92
08-15-91	REVISED WASHER NOTE	8-15-91
08-02-90	REV. GEN. NOTE & DEPTH OF ANC. POST IN ROCK	8-2-90
07-15-88	REVISED SECTION 3 & GENERAL NOTES	
03-04-88	REV. ANCHOR POST ,ELEV. NOTES & POST IN ROCK	780-3-4-88
10-30-87	REVISED WOOD LINE POST DETAIL	546-10-30-87
10-09-87	REDRAWN & REVISED	802-10-9-87

ARKANSAS STATE HIGHWAY COMMISSION

GUARDRAIL DETAILS

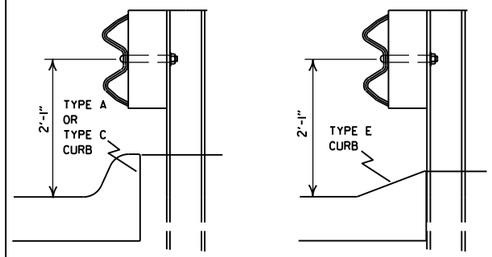
STANDARD DRAWING GR-6



WASHER PLATE

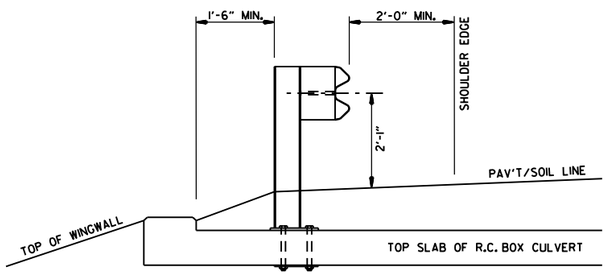
BASE PLATE

Note: Bolts, nuts, washers and plates shall be galvanized in accordance with Section 807 of the Standard Specifications.

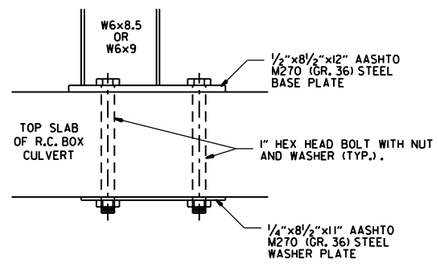


DETAIL OF GUARDRAIL PLACEMENT BEHIND CURB (W-BEAM)

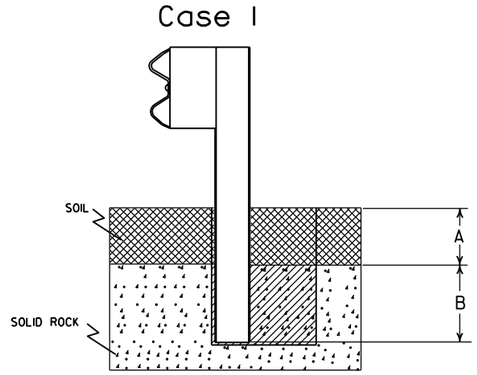
FOR DESIGN SPEEDS OF 50 MPH OR LESS ALL CURB FACES, AS SHOWN ON STD. DRWG. CG-1, MAY BE USED. FOR DESIGN SPEEDS OF 55 MPH OR MORE TYPE "E" CURB FACE SHALL BE USED.



SECTION A-A

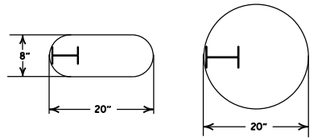


DETAIL OF CONNECTION



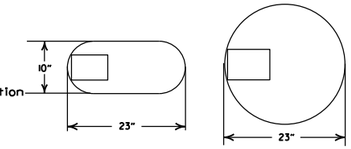
Plan View Steel Posts

Either hole configuration acceptable



Plan View Wood Posts

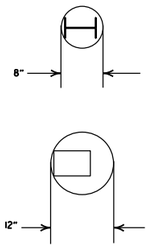
Either hole configuration acceptable



Notes: For overlying soil depths (A) ranging from 0 to 18", the depth of required drilling (B) is equal to 24".

Zone A:
Backfill according to Section 617.03(a).

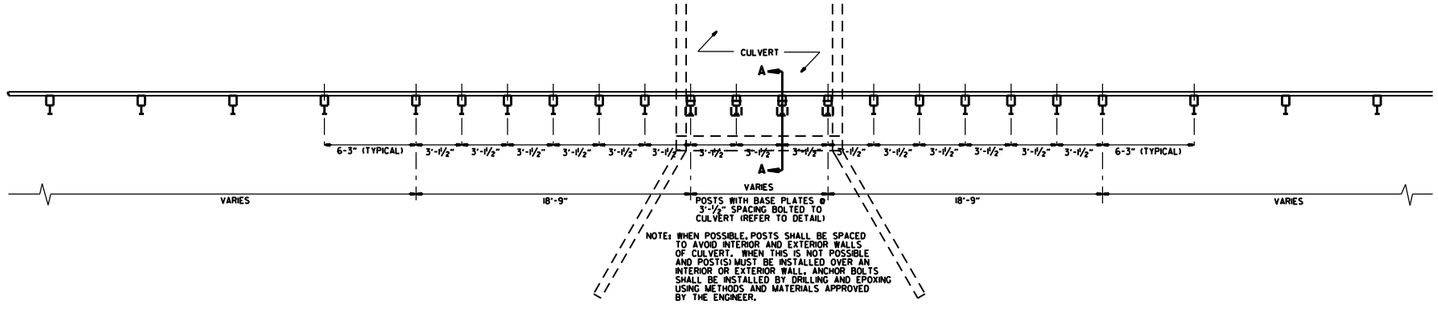
Zone B:
Backfill hole in 6" lifts with material meeting the requirements of Section 802.02(c) - Alternate gradation. Compact to 95% maximum dry density per ASTM D-698.



Notes: For overlying soil depths (A) ranging from 18" to 44", the depth of required drilling (B) is equal to either 12" or 44" minus the depth of soil whichever is less.

Zone A & B:
Backfill according to Section 617.03(a).

DETAIL OF POST PLACEMENT IN SOLID ROCK (W-BEAM)



PLAN LAYOUT OF TYPE A GUARDRAIL AT LOW-FILL CULVERTS

NOTE: THIS DETAIL IS TO BE USED ONLY WHEN THE COVER OVER THE CULVERT DOES NOT PERMIT FULL EMBEDMENT OF GUARDRAIL POSTS AS SHOWN ON STD. DWG. GR-6.

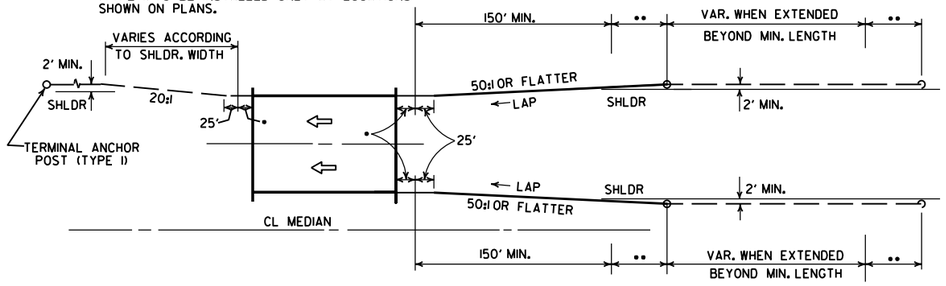
DATE	REVISION	FILMED
11-07-19	RENUMBERED, RENAMED, REVISED REFERENCE	
11-16-17	REVISED GUARDRAIL HEIGHT	
07-14-10	RAISED HEIGHT OF GUARDRAIL 1"	
04-12-07	REVISED DETAIL OF GUARDRAIL PLACEMENT BEHIND CURB	
11-10-05	ADDED GUARDRAIL PLACEMENT BEHIND CURB; REVISED DETAIL OF CONNECTION	
11-18-04	REVISED POST PLACEMENT IN ROCK & CULVERT CONNECTION DETAILS. ADDED DETAIL FOR GUARDRAIL PLACEMENT AT LOW-FILL CULVERTS	
03-30-00	REMOVED CONCRETE INSERT ANCHOR	
08-12-98	CHANGED STEEL SPACER BLOCK TO WOOD BLOCKOUT, ADDED DET. OF GUARDRAIL CONNECTION TO R.C. BOX CULV'T., DELETED DET. OF STEEL LINE POST CONN. & ADDED DET. OF GUARDRAIL PLACE. BEHIND CURB & DET. OF POSTPLACE. IN SOLID ROCK	
04-03-96	PLACED ARROWS AT CUT STEEL WASHERS	4-3-96
10-18-96	REV. ASTM REF. TO AASHTO	
11-22-95	ADDED OPTIONAL HOLES	
06-02-94	REVISED ALTERNATE POST SIZE	
08-05-93	REVISED STEEL POST SIZE	
10-01-92	REDRAWN & REVISED	10-1-92
08-02-90	DEL. WASHER ON ANCHOR ASSEMBLY	8-2-90
07-15-88	CONFORMED TO 1988 SPECS	
03-04-88	REVISED ANCHOR NOTE	
10-30-87	REVISED ANCHOR ASSEMBLY	712-10-30-87
10-30-87	REVISED PLACEMENT BEHIND CURB	547-10-30-87
10-09-87	REDRAWN & REVISED	803-10-9-87

ARKANSAS STATE HIGHWAY COMMISSION

GUARDRAIL DETAILS

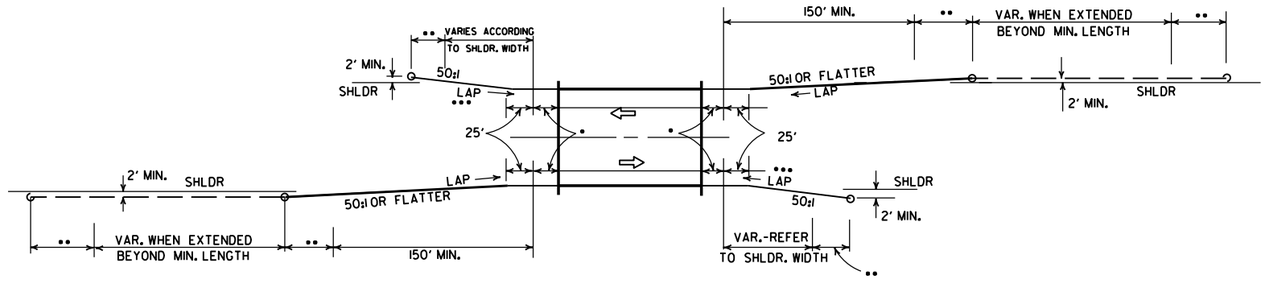
STANDARD DRAWING GR-7

NOTE: GUARDRAIL WITH GUARDRAIL TERMINAL (TYPE 1) TO BE INSTALLED ONLY AT LOCATIONS SHOWN ON PLANS.



ONE-WAY TRAFFIC

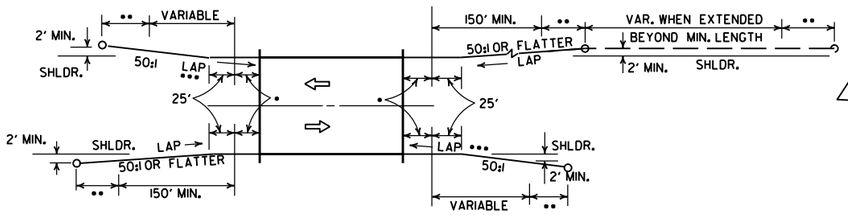
••• LAP OF GUARDRAIL SHALL BE AS SHOWN FOR A DISTANCE OF UP TO 200'. CHANGE TO LAP IN DIRECTION OF TRAVEL.



TWO-WAY TRAFFIC

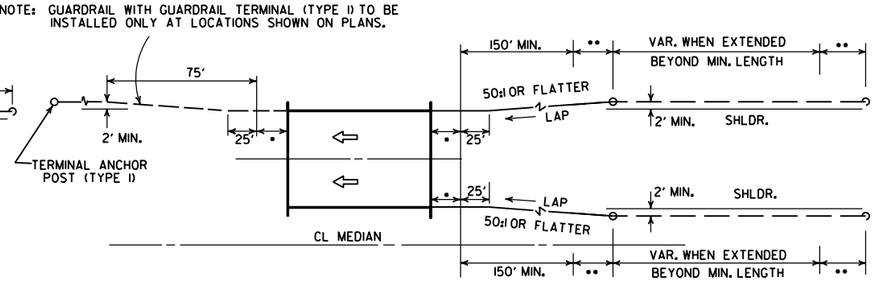
METHODS OF INSTALLATION OF GUARDRAIL AT LESS THAN FULL SHOULDER WIDTH BRIDGES USING GUARDRAIL TERMINAL (TYPE 2)

••• LAP OF GUARDRAIL SHALL BE AS SHOWN FOR A DISTANCE OF UP TO 200'. CHANGE TO LAP IN DIRECTION OF TRAVEL.



TWO-WAY TRAFFIC

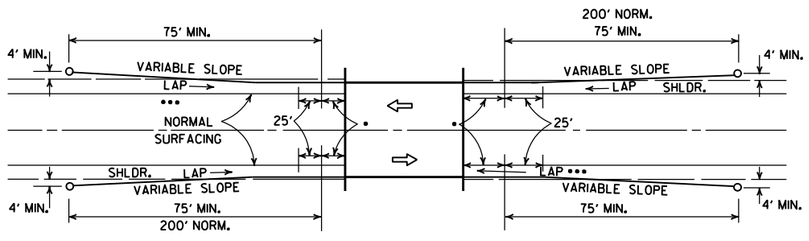
NOTE: GUARDRAIL WITH GUARDRAIL TERMINAL (TYPE 1) TO BE INSTALLED ONLY AT LOCATIONS SHOWN ON PLANS.



ONE-WAY TRAFFIC

METHOD OF INSTALLATION OF GUARDRAIL AT FULL SHOULDER WIDTH BRIDGES USING GUARDRAIL TERMINAL (TYPE 2)

••• LAP OF GUARDRAIL SHALL BE AS SHOWN FOR A DISTANCE OF UP TO 200'. CHANGE TO LAP IN DIRECTION OF TRAVEL.



METHOD OF INSTALLATION OF GUARDRAIL USING GUARDRAIL TERMINAL (TYPE 1) (FULL SHOULDER WIDTH OR LESS BRIDGES)

LEGEND

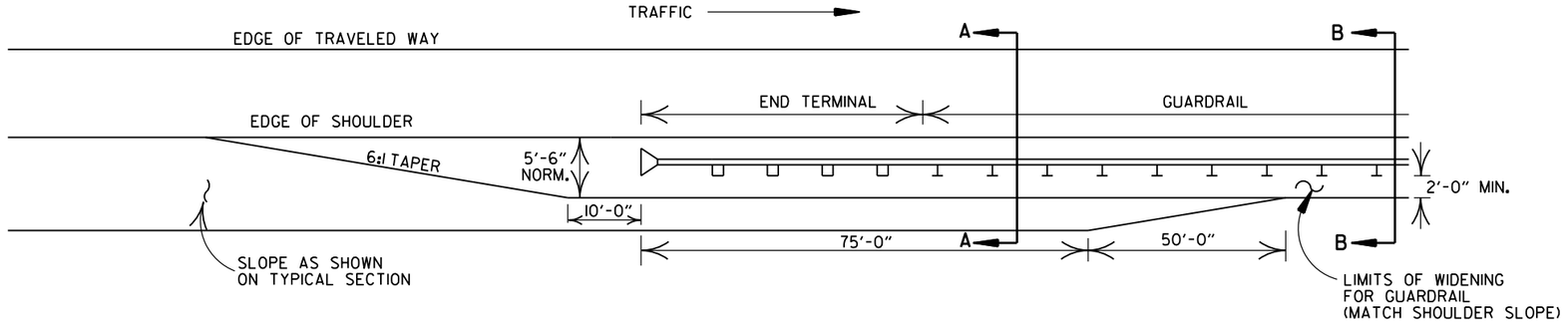
- • THRIE BEAM GUARDRAIL TERMINAL
- •• GUARDRAIL TERMINAL (TYPE 2)

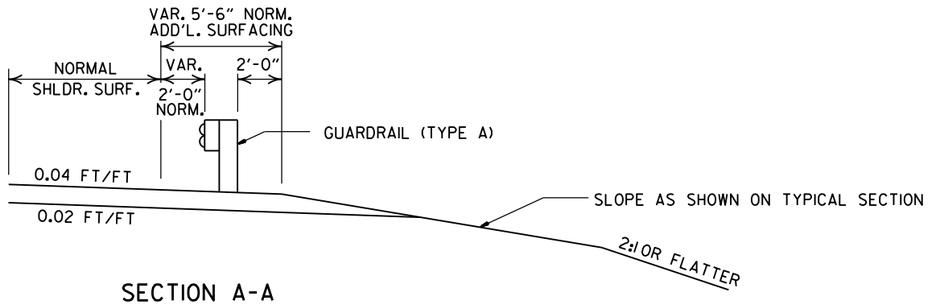
DATE	REVISION	DATE FILM
11-07-19	RENUMBERED AND RENAMED	
4-17-08	REVISED LAYOUTS	
11-10-05	REMOVED GUARDRAIL NOTES AND DETAILS	
11-16-01	DELETED NOTE-METHOD OF INSTALLATION OF GUARDRAIL USING GUARDRAIL TERM. (TY. 1)	
1-12-00	ADDED CONSTRUCTION NOTE	1-12-00
6-26-97	REVISED LAYOUT	
10-1-92	REDRAWN & REVISED	10-1-92
	ADDED NOTE	
10-9-87	REDRAWN & REVISED	

ARKANSAS STATE HIGHWAY COMMISSION

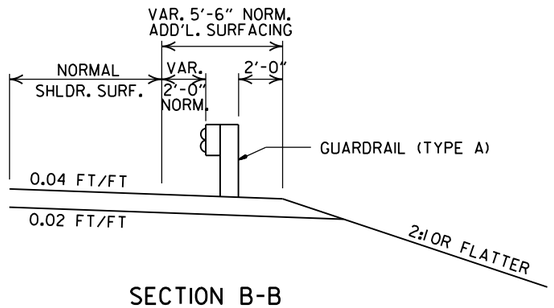
GUARDRAIL DETAILS

STANDARD DRAWING GR-8



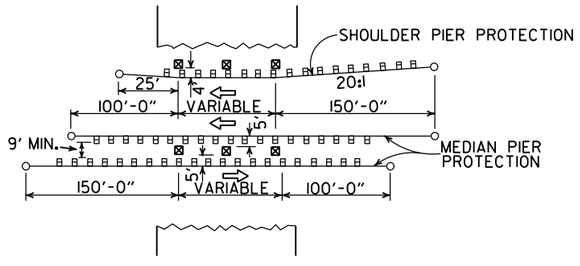


SECTION A-A



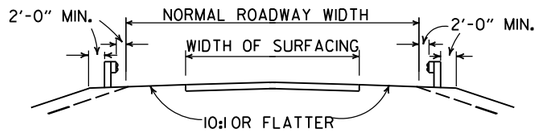
SECTION B-B

DETAILS OF WIDENING FOR GUARDRAIL

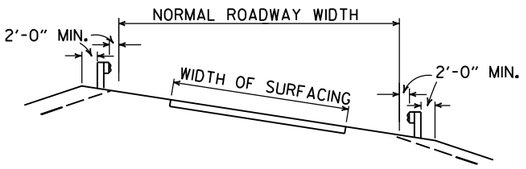


METHOD OF INSTALLATION OF GUARDRAIL AT FIXED OBSTACLE

NOTE: NORMAL SECTION TO BE WIDENED APPROX. 5'-6" EACH SIDE TO SUPPORT GUARDRAIL.



SECTION ON TANGENT



SECTION ON CURVE

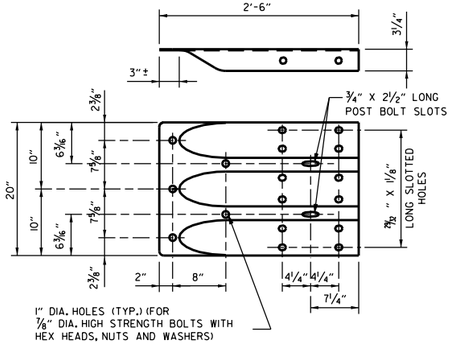
DETAILS SHOWING POSITION OF GUARDRAIL ON HIGHWAY

DATE	REVISION	DATE FILM
11-07-19	RENUMBERED AND RENAMED	
4-17-08	MINOR REVISION	
11-10-05	DRAWN	

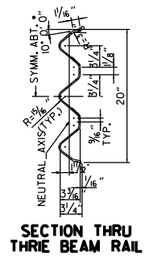
ARKANSAS STATE HIGHWAY COMMISSION

GUARDRAIL DETAILS

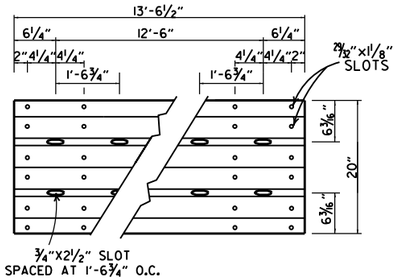
STANDARD DRAWING GR-9



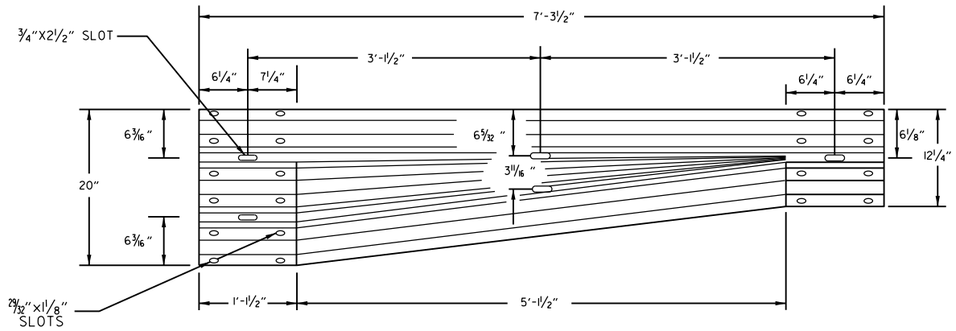
SPECIAL END SHOE



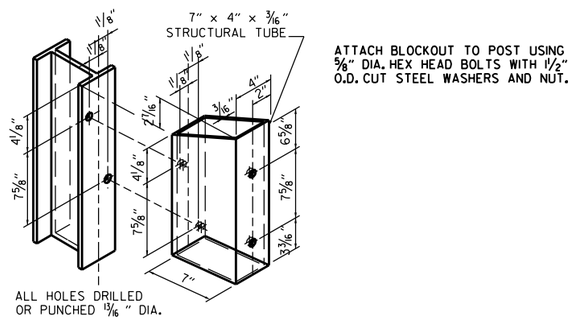
SECTION THRU THRIE BEAM RAIL



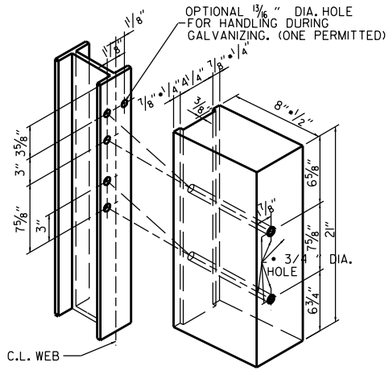
THRIE BEAM RAIL



TRANSITION SECTION



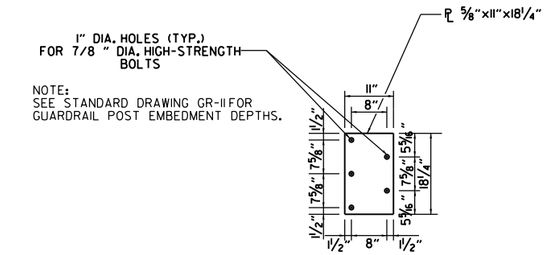
STRUCTURAL STEEL TUBING BLOCKOUT DETAIL



ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED

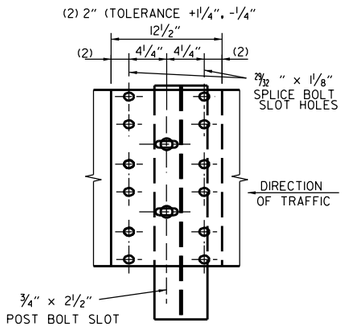
HOLE PUNCHING DETAIL FOR STEEL POST & WOOD OR PLASTIC BLOCKOUTS

NOTE: BLOCKS SHALL BE THE SAME TYPE THROUGHOUT THE PROJECT LIMITS.



CONNECTOR PLATE

CONNECTOR PLATE SHALL BE AASHTO M270, GR. 36 AND SHALL BE GALVANIZED AFTER FABRICATION. GALVANIZING SHALL CONFORM TO SUBSECTION 807.19 OF THE STANDARD SPECIFICATIONS. CONNECTOR PLATE TO BE BOLTED TO SPECIAL END SHOE USING ⅞" DIA. HIGH STRENGTH BOLTS, WITH THE HEADS PLACED ON THE TRAFFIC FACE. WASHERS SHALL BE USED UNDER THE HEAD AND NUT. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AND SHALL CONFORM TO SUBSECTION 807.06.



THRIE BEAM RAIL SPLICE AT POST

GENERAL NOTES:

THE THRIE BEAM RAIL, SPECIAL END SHOE, AND THE TRANSITION SECTION SHALL BE MADE OF STEEL AND SHALL BE 12 GAGE. ZINC COATING SHALL BE TYPE 1.

RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.

ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN 3"4" BEYOND IT.

ALL LAP SPLICES, INCLUDING SPECIAL END SHOES, SHALL BE MADE IN THE DIRECTION SHOWN ON STANDARD DRAWINGS GR-8 & GR-13.

REFER TO STD. DRWG. GR-11 FOR POST DETAILS.

USE THRIE BEAM GUARDRAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB.

THRIE BEAM POSTS SHALL BE SAME MATERIAL AS W-BEAM POSTS FOR ENTIRE JOB.

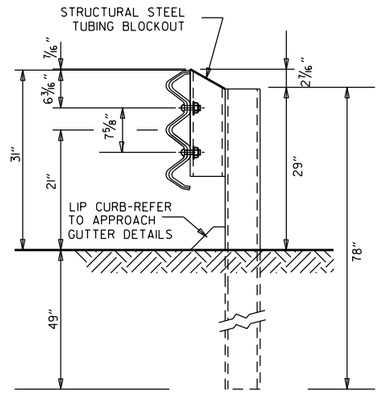
WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7 f (1400 f) OR NO. 1 1350 f SOUTHERN PINE.

DATE	REVISION	FILMED
11-07-19	RENAMED AND REVISED REFERENCES	
11-16-17	REVISED TRANSITION SECTION, GUARD RAIL HEIGHT, AND GENERAL NOTES; MOVED THRIE BEAM GUARD RAIL CONNECTIONS AT BRIDGES ENDS TO STD. DRWG. GR-12	
07-14-10	RAISED HEIGHT OF W-BEAM 1"	
11-29-07	ADDED PLASTIC BLOCKOUTS	
11-10-05	ADDED NOTE FOR ATTACHING STEEL BLOCKOUT	
11-18-04	REVISED GENERAL NOTES	
10-9-03	REVISED GENERAL NOTES	
04-10-03	REVISED GENERAL NOTES	
08-22-02	REVISED NOTE (2)	
06-29-00	MOVED DIMENSION LINES	
05-18-00	ADDED NOTE	
03-30-00	DRAWN & ISSUED	

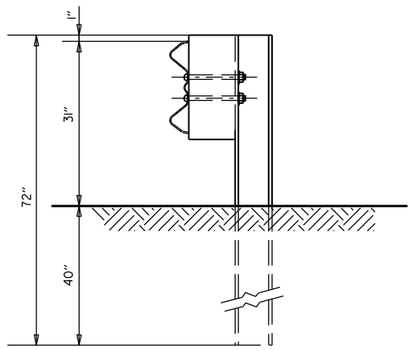
ARKANSAS STATE HIGHWAY COMMISSION

GUARDRAIL DETAILS

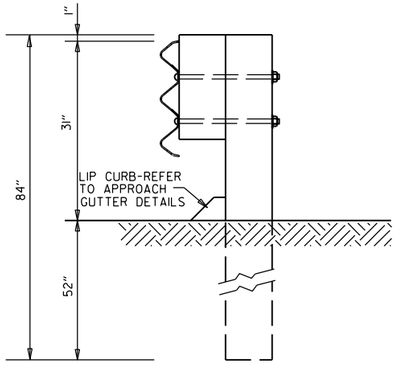
STANDARD DRAWING GR-10



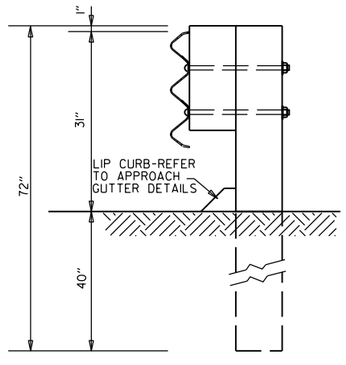
THRIE BEAM RAIL WITH STEEL TUBING BLOCKOUT
AND STEEL POST
POSTS 1-7



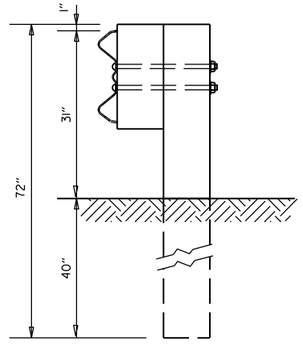
W-BEAM TO THRIE BEAM TRANSITION RAIL
WITH WOOD OR PLASTIC BLOCKOUT AND STEEL POST
POST 8



THRIE BEAM RAIL
WITH WOOD OR PLASTIC
BLOCKOUTS & WOOD POSTS
POSTS 1-6



THRIE BEAM RAIL
WITH WOOD OR PLASTIC
BLOCKOUT & WOOD POST
POST 7



W-BEAM TO THRIE BEAM
TRANSITION RAIL WITH WOOD OR
PLASTIC BLOCKOUT & WOOD POST
POST 8

GENERAL NOTES:

RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.

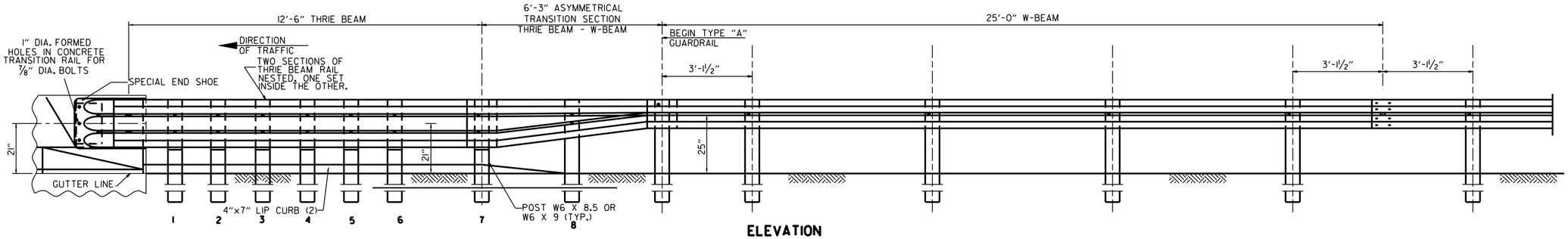
WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1STRUCTURAL OR BETTER 9.7f (1400 f) OR NO.1 1350 f SOUTHERN PINE.

DATE	REVISION	FILMED
11-07-19	RENAMED	
11-16-17	REVISED GUARDRAIL HEIGHT, CHANGED STD. DWG. NUMBER FROM GR-10A TO GR-11	
07-14-10	REVISED POST 8 DIMENSIONS	
11-29-07	ADDED PLASTIC BLOCKOUTS	
08-22-02	REVISED LIP CURB NOTE	
03-30-00	DRAWN & ISSUED	

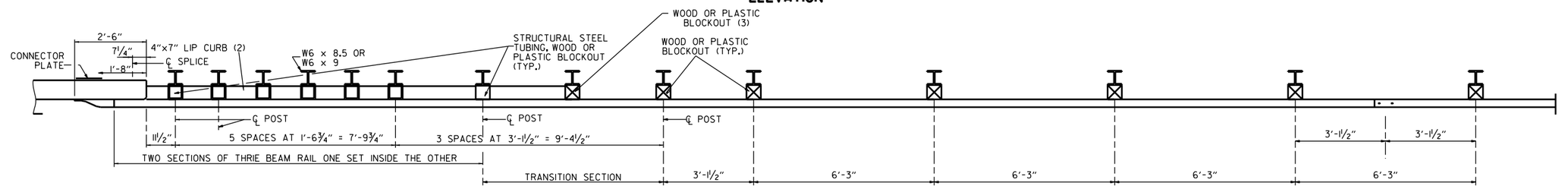
ARKANSAS STATE HIGHWAY COMMISSION

GUARDRAIL DETAILS

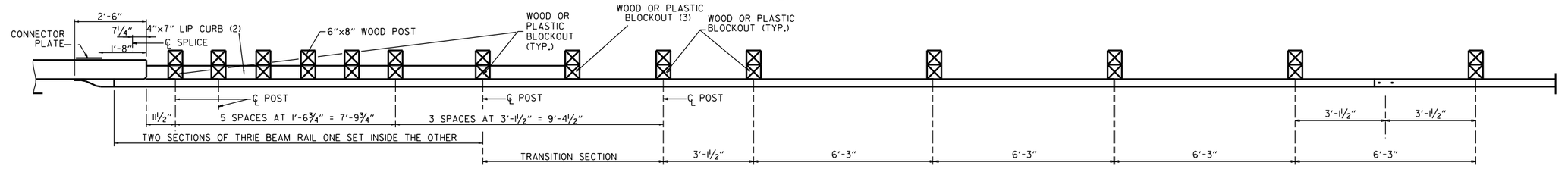
STANDARD DRAWING GR-11



ELEVATION



PLAN



PLAN

(1) VERIFY BOLT SPACING FROM RAIL TRANSITION PRODUCER.
(2) REFER TO APPROACH GUTTER DETAILS.
(3) LENGTH OF BLOCKOUT ON POST 8 TO BE MODIFIED TO FIT RAIL WIDTH.

THRIE BEAM GUARDRAIL CONNECTION AT BRIDGE ENDS

GENERAL NOTES:

THE THRIE BEAM RAIL, SPECIAL END SHOE, AND THE TRANSITION SECTION SHALL BE MADE OF STEEL AND SHALL BE 12 GAGE. ZINC COATING SHALL BE TYPE I.

RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.

ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN 3/4" BEYOND IT.

ALL LAP SPLICES, INCLUDING SPECIAL END SHOES, SHALL BE MADE IN THE DIRECTION SHOWN ON STANDARD DRAWINGS GR-8 & GR-13.

REFER TO STD. DRWG. GR-11 FOR POST DETAILS.

USE THRIE BEAM GUARDRAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB.

THRIE BEAM POSTS SHALL BE SAME MATERIAL AS W-BEAM POSTS FOR ENTIRE JOB.

POSTS SHALL NOT BE PLACED AT SPLICE LOCATIONS ALONG W-BEAM RAILS.

WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7f (1400 f) OR NO. 1 1350 f SOUTHERN PINE.

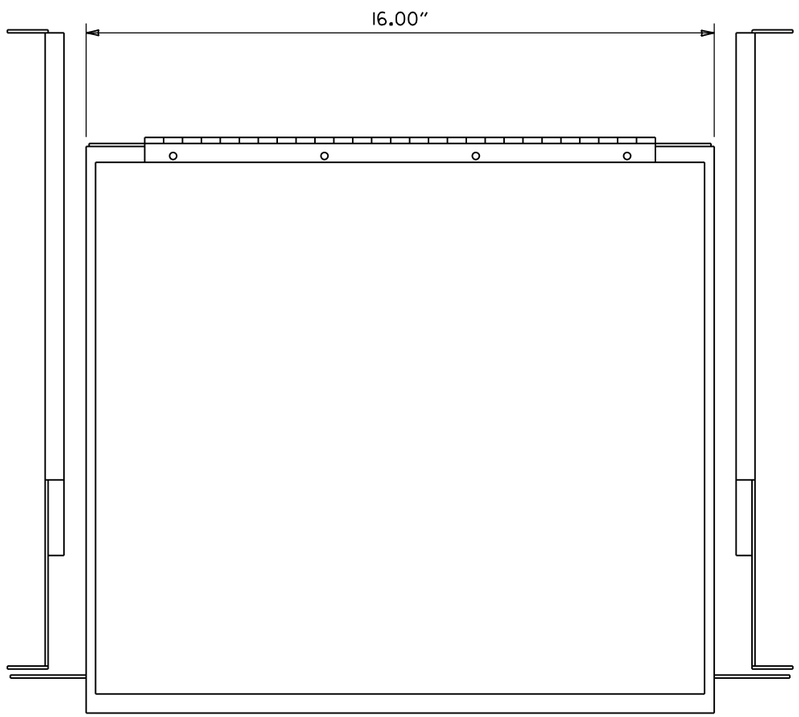
DATE	REVISION	FILMED
05-14-20	REVISED NOTES	
11-07-19	RENAMED & REVISED REFERENCES	
11-16-17	RE-DRAWN FROM STD. DWG. GR-10 & ISSUED	

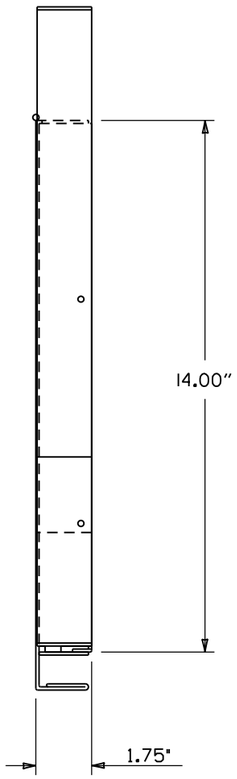
ARKANSAS STATE HIGHWAY COMMISSION

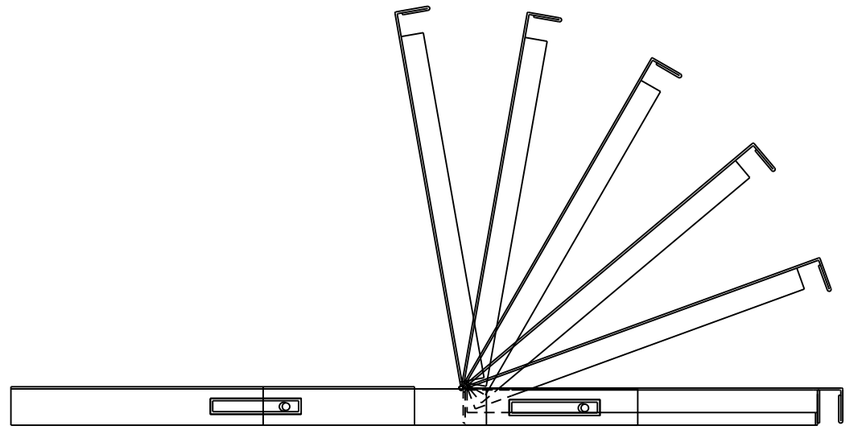
GUARDRAIL DETAILS

STANDARD DRAWING GR-12

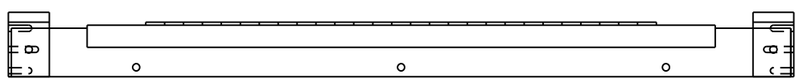
DRAWER PLAN VIEW



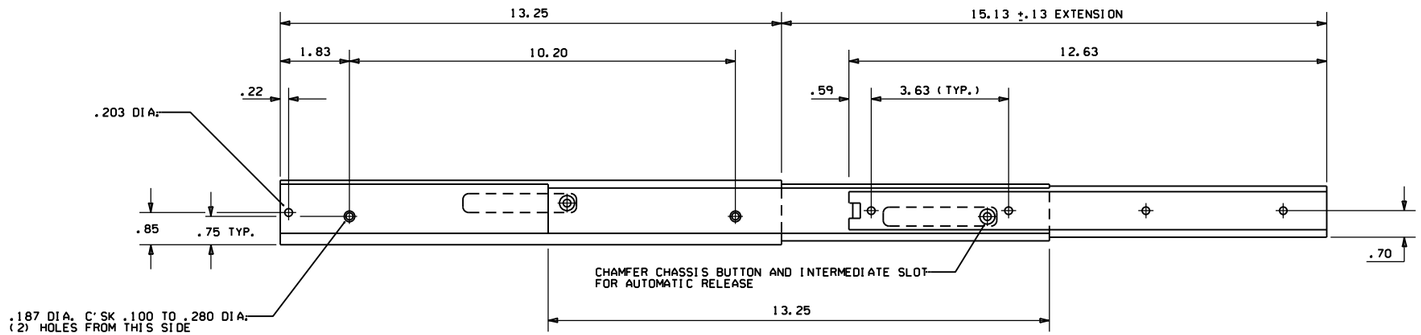




NOTES:
1. RIGHT HAND SLIDE SHOWN, LEFT SLIDE OPPOSITE.
2. GENERAL DEVICES (CC3002-99-0102) OR EQUAL AND CONTAINS (1) RIGHT HAND SLIDE ASSEMBLY, (1) LEFT HAND SLIDE ASSEMBLY.
3. ALL HARDWARE NECESSARY TO FASTEN SLIDE ASSEMBLY TO UNDERSIDE OF CONTROLLER SHELF SHALL BE INCLUDED.



FRONT VIEW



RIGHT SIDE ASSEMBLY

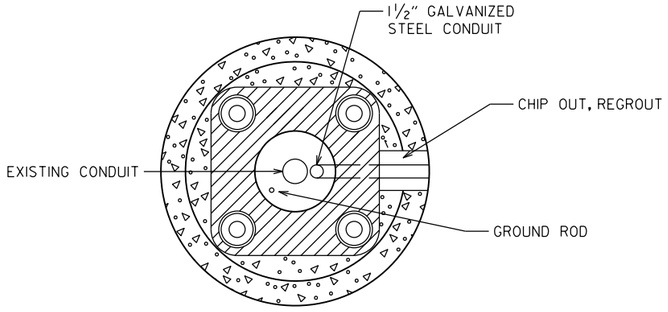
DATE	REVISION	DATE FILM
9-12-13	ISSUED AS STANDARD DRAWING	
6-15-05	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

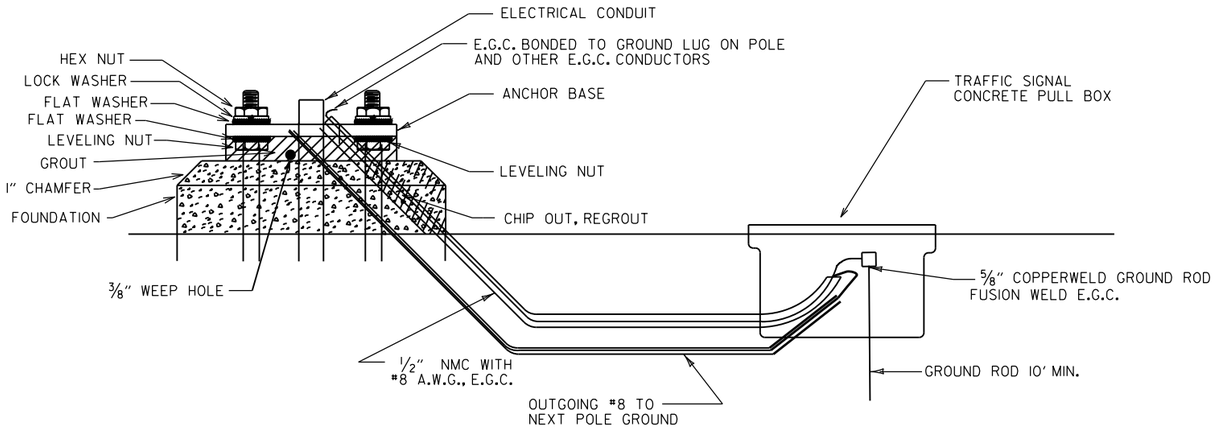
CONTROLLER CABINET UTILITY DRAWER

STANDARD DRAWING SD-5

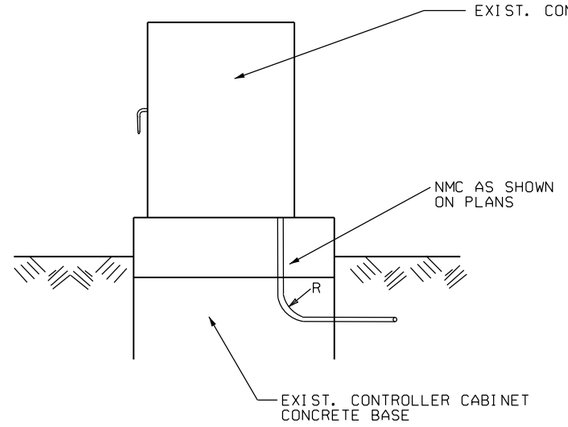
CONDUIT ENTRY TO EXISTING POLE BASE



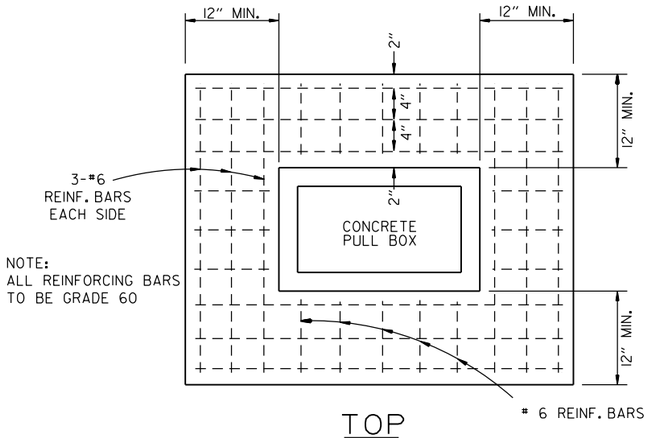
ANCHOR BASE



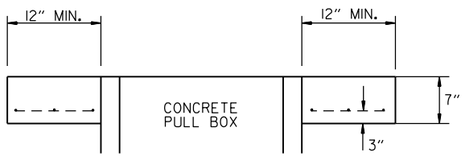
CONDUIT ENTRY TO EXISTING CONTROLLER CABINET



NOTE: ENTRY TO CABINET SHALL BE THROUGH A CUT IN THE BASE SUFFICIENT TO PROVIDE ADEQUATE CONDUIT RADIUS FOR ITEM.



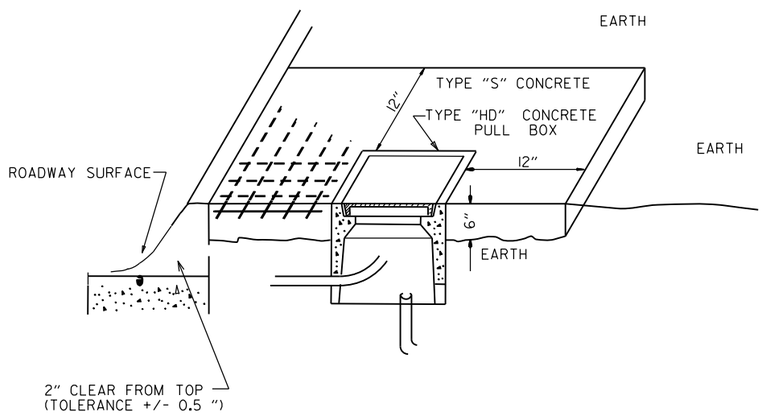
TOP



ELEVATION

NOTE:
ALL REINFORCING BARS TO BE GRADE 60

TYPE "HD" CONCRETE PULL BOX DETAIL



NOTE:
ALL TYPE 1 AND TYPE 2 HD CONCRETE PULL BOXES ARE INSTALLED WITH AN APRON OF CONCRETE 12" WIDE AND 7" IN DEPTH. ALL PAYMENT SHALL BE INCLUDED IN THE PRICE OF THE TYPE HD CONCRETE PULL BOX. THE CONCRETE PULL BOX SHALL BE INSTALLED FLUSH TO SURROUNDING GRADE UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER. THE CONCRETE SHALL BE CLASS "S". THREE #6 REINFORCING BARS IN THE APRON ON ALL SIDES OF THE CONCRETE PULL BOX IS REQUIRED IN CONCRETE.

DATE	REVISION	FILMED
11-16-17	REVISED NOTES	
09-02-15	REVISED PULL BOX DEPTH	
09-12-13	ISSUED AS STANDARD DRAWING	
05-21-09	REVISED GROUNDING	
07-31-08	ADDED & REVISED CONDUIT ENTRY	
06-23-04	REVISED CLEARANCE AT CURB ENTRY	
01-04-02	ADDED REINFORCING TO BOX APRON	
07-02-01	REVISED	
12-27-99	REVISED NOTES	
11-18-98	ISSUED	

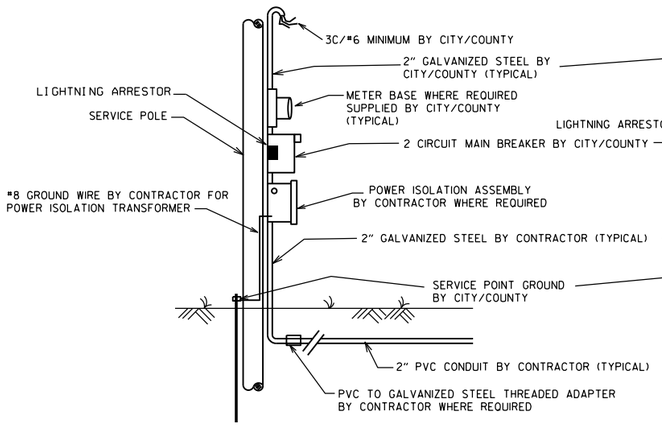
ARKANSAS STATE HIGHWAY COMMISSION

HEAVY DUTY PULL BOX

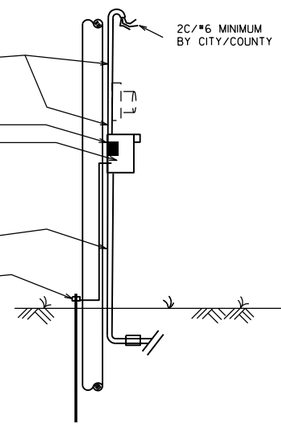
STANDARD DRAWING SD-6

MAIN BREAKER NOT NEAR CONTROLLER CABINET SECONDARY REQUIRED

WITH POWER ISOLATION ASSEMBLY



WITHOUT POWER ISOLATION ASSEMBLY



NOTES TO CONTRACTOR AND AGENCY RESPONSIBLE FOR MAINTENANCE OF THE INTERSECTION (CITY/COUNTY):

ELECTRICAL SERVICE TYPICALLY FALLS INTO TWO CATEGORIES:
MAIN BREAKER NEAR CONTROLLER CABINET; AND MAIN BREAKER NOT NEAR CONTROLLER CABINET. THE CONTRACTOR'S AND THE CITY'S/COUNTY'S RESPONSIBILITY VARIES ACCORDINGLY AS INDICATED ON THESE DETAILS.

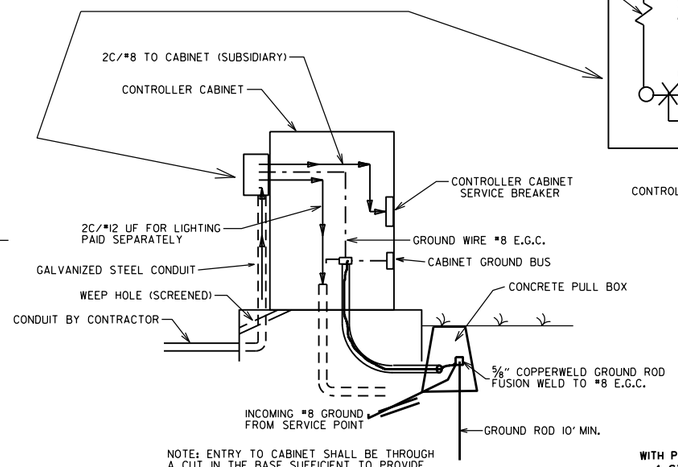
ALL SITUATIONS:
ELECTRICAL SERVICE SHALL BE PROVIDED BY THE CITY/COUNTY TO A SERVICE POLE WITH EXTERNAL RAINTIGHT BREAKER (MAIN BREAKER) AT A MUTUALLY ACCEPTABLE POINT WITHIN THE RIGHT-OF-WAY. SERVICE POINT INCLUDES GALVANIZED STEEL CONDUIT TO A POINT 18" BELOW GROUND LINE, TWO CIRCUIT MAIN BREAKER, LIGHTNING ARRESTOR, POWER ISOLATION ASSEMBLY WHERE REQUIRED, METER LOOP IF REQUIRED BY LOCAL UTILITY COMPANY, ELECTRICAL CONDUCTORS AND WEATHERHEAD. WHERE STREET LIGHTING IS INCLUDED AS PART OF SIGNAL INSTALLATION STREET LIGHTING CIRCUIT (2C/#12 A.W.G. UF RATED, TYPICAL) SHALL BE KEPT SEPARATE FROM THE CIRCUIT SERVING TRAFFIC SIGNAL. SERVICE WIRE AND WIRING FROM THE CONTROLLER TO MAIN BREAKER IS PROVIDED BY THE CONTRACTOR AS A PART OF THIS CONTRACT. WIRE AND WIRING FROM MAIN BREAKER, AND CONNECTION TO THE UTILITY IS THE RESPONSIBILITY OF THE CITY/COUNTY.

MAIN BREAKER NOT NEAR CONTROLLER CABINET:
THE MAIN BREAKER ASSEMBLY, GALVANIZED STEEL CONDUIT. WEATHERHEAD AND WIRE ABOVE MAIN BREAKER AND CONNECTION TO THE UTILITY SHALL BE PROVIDED BY CITY/COUNTY. CONTRACTOR SHALL PROVIDE AS PART OF CONTRACT SECONDARY BREAKER, CONDUIT, WIRE AND WIRING TO THE MAIN BREAKER.

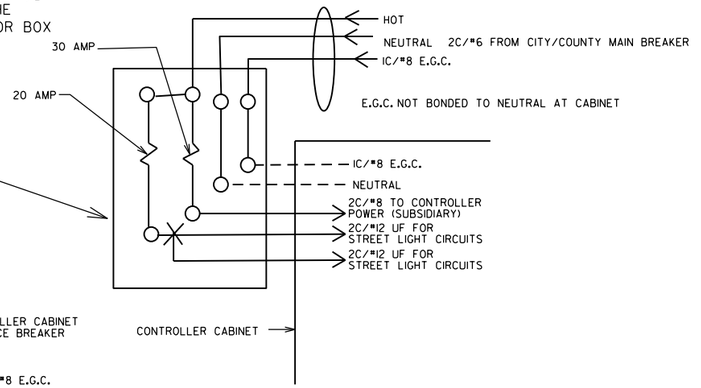
MAIN BREAKER NEAR CONTROLLER CABINET:
ALL COMPONENTS OF THE SERVICE POINT WITH THE EXCEPTION OF THE WIRE AND WIRING ABOVE THE MAIN BREAKER IS FURNISHED AND INSTALLED BY THE CONTRACTOR. WIRING FROM MAIN BREAKER INCLUDING CONNECTION TO THE UTILITY, IS THE RESPONSIBILITY OF THE CITY/COUNTY. IF METER LOOP IS REQUIRED, METER BASE AND HARDWARE IS PROVIDED BY THE CITY/COUNTY AND INSTALLED BY THE CONTRACTOR.

GROUND ROD - A 10' X 5/8" GROUND ROD SHALL BE INSTALLED IN THE CONCRETE PULL BOX FOR EACH POLE AND THE CONTROLLER. PAYMENT FOR THE GROUND ROD AND 1/2" NMC SHALL BE INCLUDED IN ITEM 701. THE CONCRETE PULL BOX AND CONDUCTOR BOX SHALL BE PAID FOR SEPARATELY.

SECONDARY BREAKER BY CONTRACTOR (SUBSIDIARY)



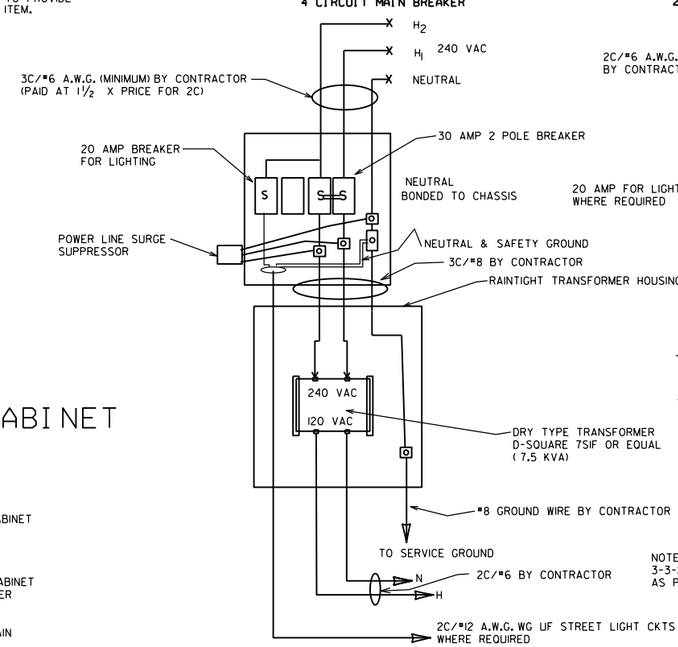
NOTE: ENTRY TO CABINET SHALL BE THROUGH A CUT IN THE BASE SUFFICIENT TO PROVIDE ADEQUATE CONDUIT RADIUS FOR ITEM.



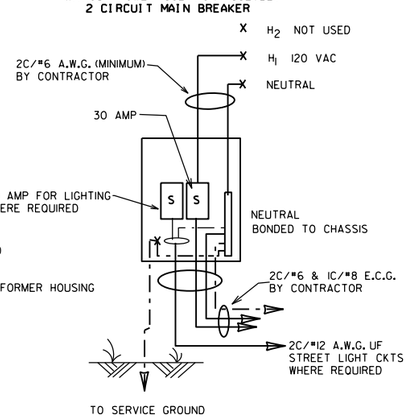
MAIN BREAKER WIRING (TYPICAL)

SERVICE GROUND IS TYPICALLY TIED TO NEUTRAL AT THE MAIN BREAKER. AS SUCH, CONTROLLER GROUND IS NOT TIED TO NEUTRAL AT SECONDARY BREAKER OR IN CONTROLLER CABINET.

WITH POWER ISOLATION ASSEMBLY
4 CIRCUIT MAIN BREAKER

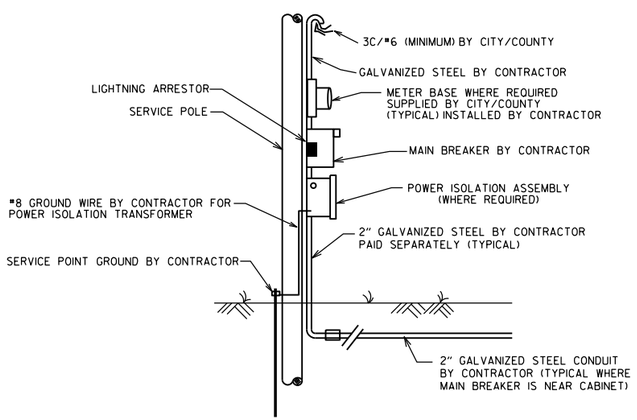


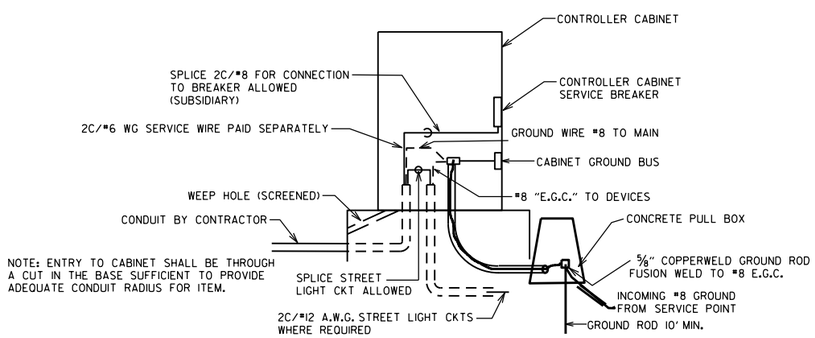
WITHOUT POWER ISOLATION ASSEMBLY
2 CIRCUIT MAIN BREAKER



NOTE: ELECTRICAL GROUND CONDUCTOR (E.C.G.) ADDED 3-3-2003, CONSISTING OF A IC/#8 A.W.G. CU GREEN WIRE AS PER NATIONAL ELECT. CODES.

MAIN BREAKER NEAR CONTROLLER CABINET SECONDARY NOT REQUIRED





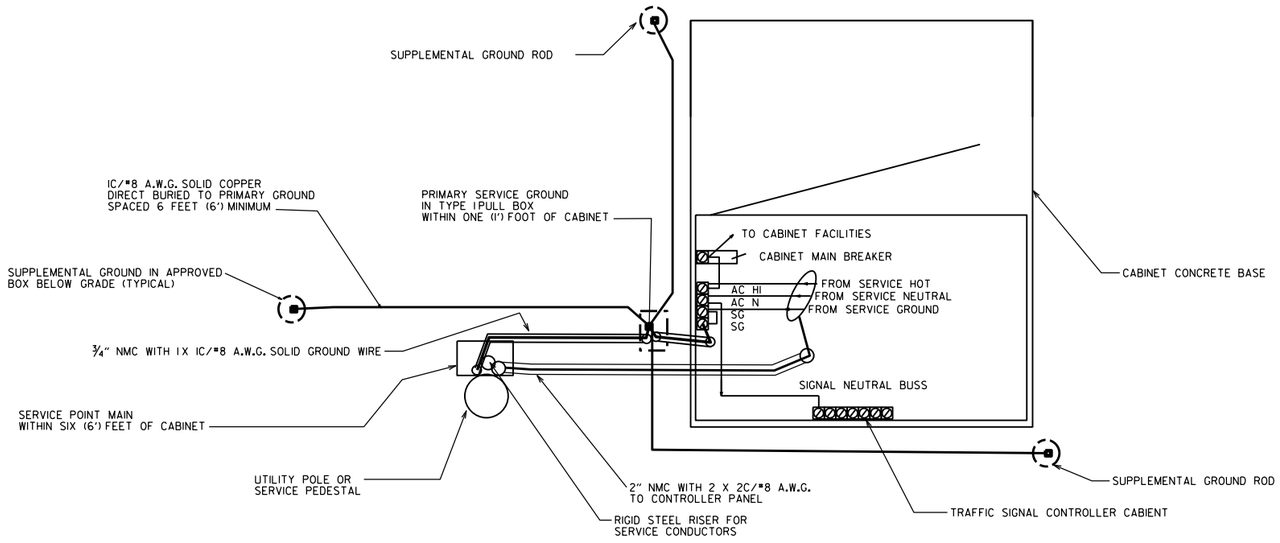
NOTE: ENTRY TO CABINET SHALL BE THROUGH A CUT IN THE BASE SUFFICIENT TO PROVIDE ADEQUATE CONDUIT RADIUS FOR ITEM.

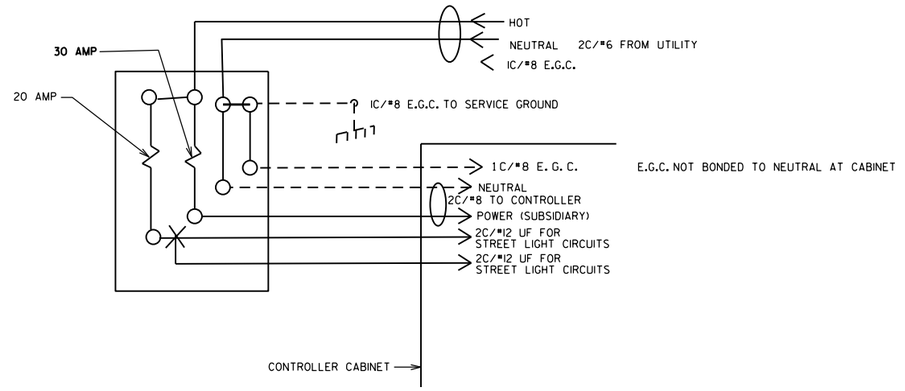
DATE	REVISION	FILMED
11-07-19	REVISED	
11-16-17	REVISED NOTES	
09-12-13	ISSUED AS STANDARD DRAWING	
04-18-13	ADDED LIGHTNING ARRESTOR	
05-21-09	REVISED GROUNDING	
07-31-08	REVISED GROUNDING	
03-03-03	ADDED EGC NOTE	
09-26-01	REVISED	
12-27-99	REVISED	
07-28-99	REVISED	
02-05-99	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

SERVICE POINT

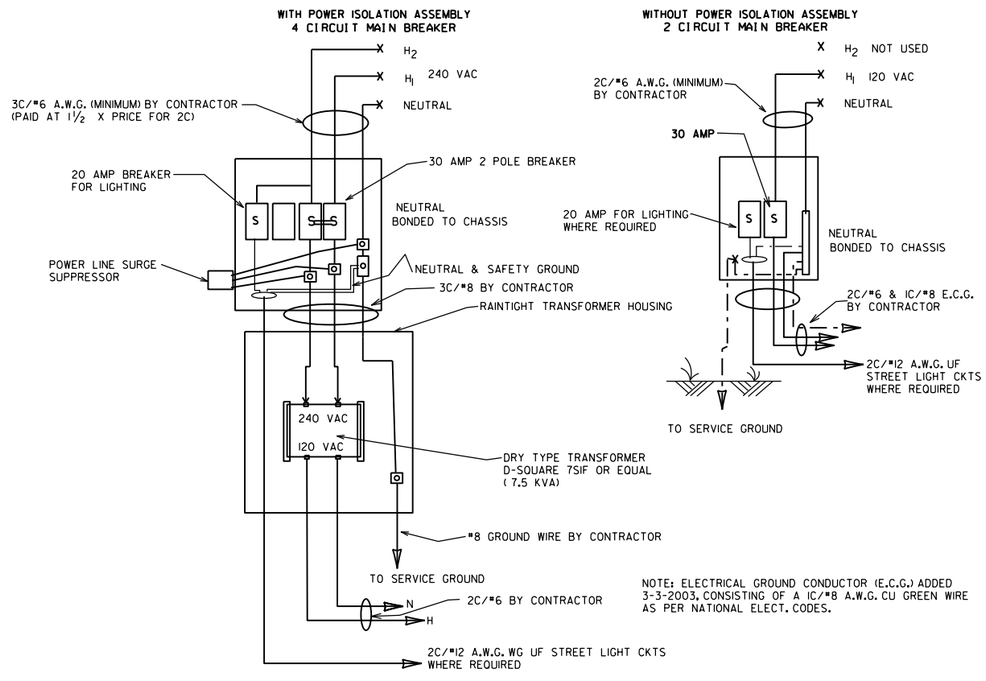
STANDARD DRAWING SD-9





MAIN BREAKER WIRING (TYPICAL)

SERVICE GROUND IS TYPICALLY TIED TO NEUTRAL AT THE MAIN BREAKER. AS SUCH, CONTROLLER GROUND IS NOT TIED TO NEUTRAL AT SECONDARY BREAKER OR IN CONTROLLER CABINET.



NOTES:

LOCATION OF SERVICE:
TO MEET THE REQUIREMENTS FOR SAFETY AND MAXIMIZE LIGHTNING PROTECTION. THE "SERVICE POINT MAIN" FROM THE UTILITY PRIMARY SERVICE POINT MUST BE WITHIN SIX (6') FEET OF THE TRAFFIC SIGNAL CONTROLLER CABINET. ELECTRICAL SERVICE SHALL BE PROVIDED BY THE CITY/COUNTY TO A SERVICE POLE OR PEDESTAL WITH EXTERNAL RAINTIGHT BREAKER (MAIN BREAKER) AT A MUTUALLY ACCEPTABLE POINT WITHIN THE RIGHT-OF-WAY. SERVICE POINT INCLUDES GALVANIZED STEEL CONDUIT TO A POLE 18" BELOW GROUND LINE, TWO CIRCUIT MAIN BREAKER, POWER ISOLATION ASSEMBLY WHERE REQUIRED, METER LOOP IF REQUIRED BY LOCAL UTILITY COMPANY, ELECTRICAL CONDUCTORS AND WEATHERHEAD. WHERE STREET LIGHTING IS INCLUDED AS PART OF SIGNAL INSTALLATION, STREET LIGHTING CIRCUIT (2C/#12 A.W.G. UF RATED, TYPICAL) SHALL BE KEPT SEPARATE FROM THE CIRCUIT SERVING TRAFFIC SIGNAL. SERVICE WIRE AND WIRING FROM THE CONTROLLER TO MAIN BREAKER IS PROVIDED BY THE CONTRACTOR AS A PART OF THIS CONTRACT. WIRE AND WIRING FROM MAIN RESPONSIBILITY OF THE CITY/COUNTY.

METER LOOP:
ALL COMPONENTS OF THE SERVICE POINT WITH THE EXCEPTION OF THE WIRE AND WIRING ABOVE THE MAIN BREAKER IS FURNISHED AND INSTALLED BY THE CONTRACTOR. WIRING FROM MAIN BREAKER INCLUDING CONNECTION TO THE UTILITY, IS THE RESPONSIBILITY OF THE CITY/COUNTY. IF METER LOOP IS REQUIRED, METER BASE AND HARDWARE IS PROVIDED BY THE CITY/COUNTY AND ISTALLED BY THE CONTRACTOR.

SUPPLEMENT GROUND RODS:
SUPPLEMENT GROUND RODS ARE FUSION WELDED TO IC/#8 A.W.G. SOLID COPPER GROUND WIRE. ATTACHMENT TO PRIMARY GROUND MAY BE AN APPROVED CLAMP. GROUND RODS ARE LOCATED IN A BOX APPROVED BY THE ENGINEER MEETING THE SAME LOADING REQUIREMENTS AS SECTION 711 CONCRETE PULL BOX OF THE STANDARD SPECIFICATIONS, WITH THE EXCEPTION TO DIMENSIONS. THE CONCRETE PULL BOX MAY BE EITHER ROUND OR SQUARE APPROXIMATELY SIX (6") INCHES MINIMUM INSIDE DIMENSIONS AND SIX (6") INCHES DEPTH. (STRONGWELL PC0608BA06 WITH PC0608CA00 LID OR EQUAL).

DATE	REVISION	FILMED
11-07-19	REVISED NOTES	
11-16-17	REVISED NOTES	
09-12-13	ISSUED AS STANDARD DRAWING	
01-17-08	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

SERVICE POINT INSTALLATION WITH SUPPLEMENT GROUNDING ARRAY

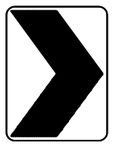
STANDARD DRAWING SD-12



R1-1
30"X30"



W1-3
30"X30"
(LT. OR RT.)



W1-8
18"X24"



W2-5
30"X30"



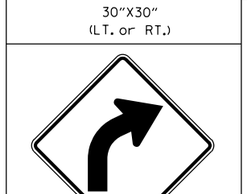
W3-1
36"X36"



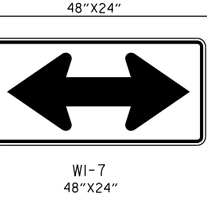
W5-1
36"X36"



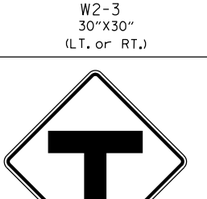
M6-3
21"X15"



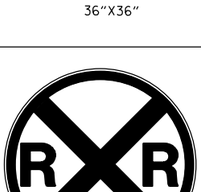
R1-2
36"X36"X36"



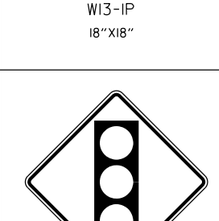
W1-4
30"X30"
(LT. or RT.)



W2-1
30"X30"



S1-1
36"X36"



W3-2
36"X36"

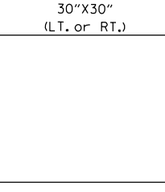


County
Route Marker
M1-6
24"X24"

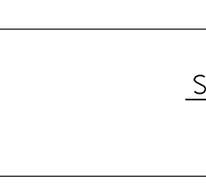
NOTE: REFLECTORIZED YELLOW LEGEND (COUNTY NAME, ROUTE LETTER & NUMBER) & BORDER ON A BLUE BACKGROUND.



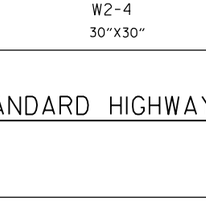
M6-4
21"X15"



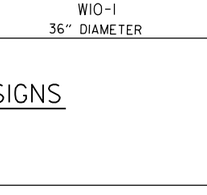
R2-1
24"X30"



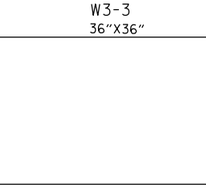
W1-5
30"X30"
(LT. or RT.)



W2-2
30"X30"

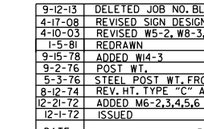


W5-2
36"X36"



W8-3
36"X36"

R1-3P
18"X6"



M6-5
21"X15"

W1-1
30"X30"
(LT. or RT.)

W1-6
48"X24"

W1-7
48"X24"

W2-3
30"X30"
(LT. or RT.)

W5-3
36"X36"

W13-1P
18"X18"

M6-1
21"X15"

NOTE: ALL M6 SIGNS TO BE MADE WITH REFLECTORIZED YELLOW ARROW & BORDER WITH BLUE BACKGROUND.

M6-6
21"X15"

W1-2
30"X30"
(LT. or RT.)

W2-4
30"X30"

W10-1
36" DIAMETER

W3-3
36"X36"

M6-2
21"X15"

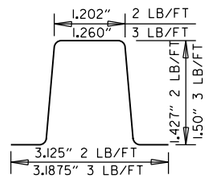
S4-3P
24"X8"

S4-2P
24"X10"

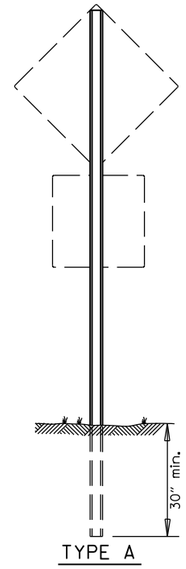
OM-3
12"X36"
(LT. or RT.)

MINIMUM DIMENSIONS SHOWN

SUPPORT SECTION



(U-CHANNEL)
STANDARD SUPPORT
ASSEMBLIES



TYPE A

NOTE: LENGTH OF SIGN POSTS SHALL BE DETERMINED SO AS TO PROVIDE FOR MINIMUM VERTICAL CLEARANCES AS CALLED FOR IN THE SPECIFICATIONS PLUS A MINIMUM VERTICAL PENETRATION OF 30" IN THE SOIL.

TYPE B

TYPE C

MINIMUM WEIGHT

TYPE A & B = 3 LBS./FT.
TYPE C = 2 LBS./FT.

STANDARD HIGHWAY SIGNS

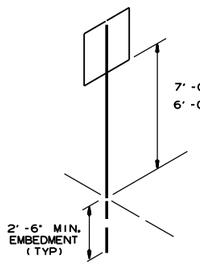
DATE	REVISION	DATE FILMED
9-12-13	DELETED JOB NO. BLOCK; REVISED RI-3 TO RI-3P	
4-17-08	REVISED SIGN DESIGNATION - W3-1 & W3-2	
4-10-03	REVISED W5-2, W8-3, OM-3; ADDED WI-8	
1-5-81	REDRAWN	960-1-15-81
9-15-78	ADDED WI4-3	877-9-15-78
9-2-76	POST WT.	623-9-3-76
5-3-76	STEEL POST WT. FROM 2#-3#; ADDED S4-2 & S4-3	504-5-3-76
8-12-74	REV. HT. TYPE "C" ASSEMBLY	500-8-21-74
12-21-72	ADDED M6-2,3,4,5,6	500-12-21-72
12-1-72	ISSUED	562-12-1-72

SUPPORT ASSEMBLIES

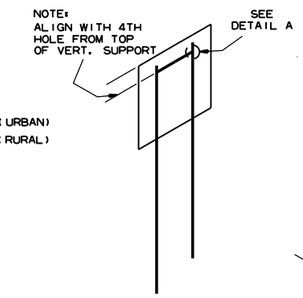
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD HIGHWAY SIGNS
AND SUPPORT ASSEMBLIES

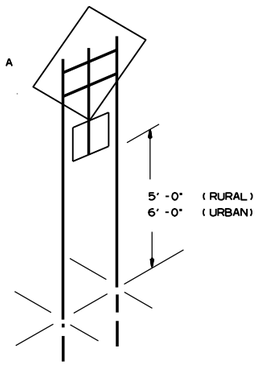
STANDARD DRAWING SHS-1



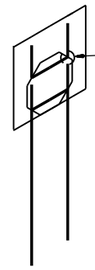
U-1



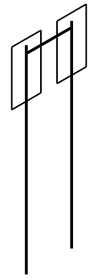
U-2



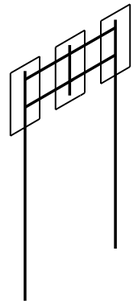
U-2 (A)



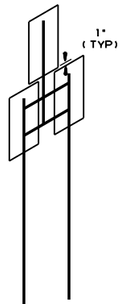
U-2 (B)



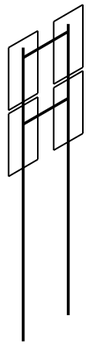
U-2 (1)



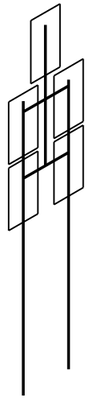
U-2 (2)



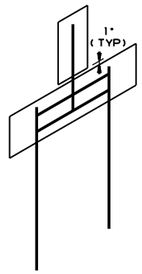
U-2 (3)



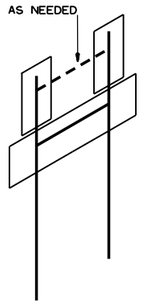
U-2 (4)



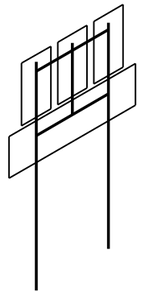
U-2 (5)



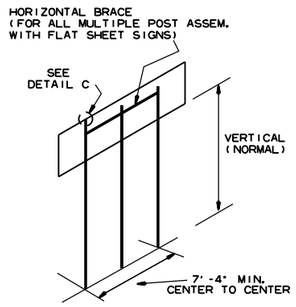
U-2 (6)



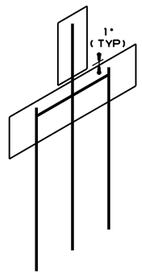
U-2 (7)



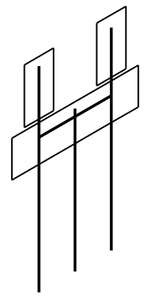
U-2 (8)



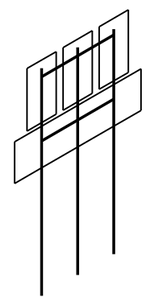
U-3



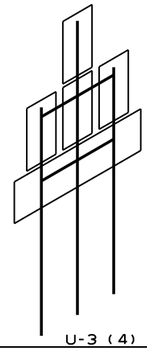
U-3 (1)



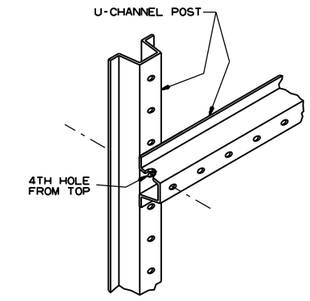
U-3 (2)



U-3 (3)

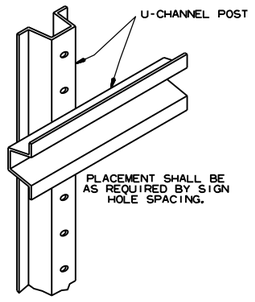


U-3 (4)



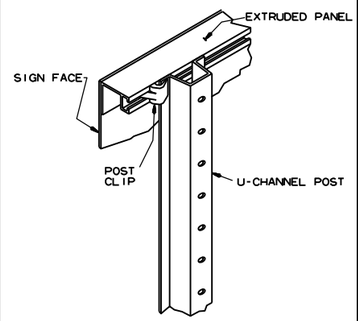
DETAIL A

SHOWING HORIZONTAL BRACE



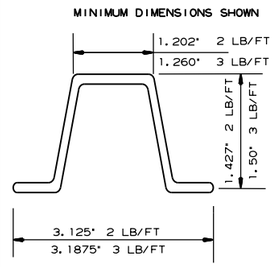
DETAIL B

SHOWING BACK-TO-BACK INSTALLATION



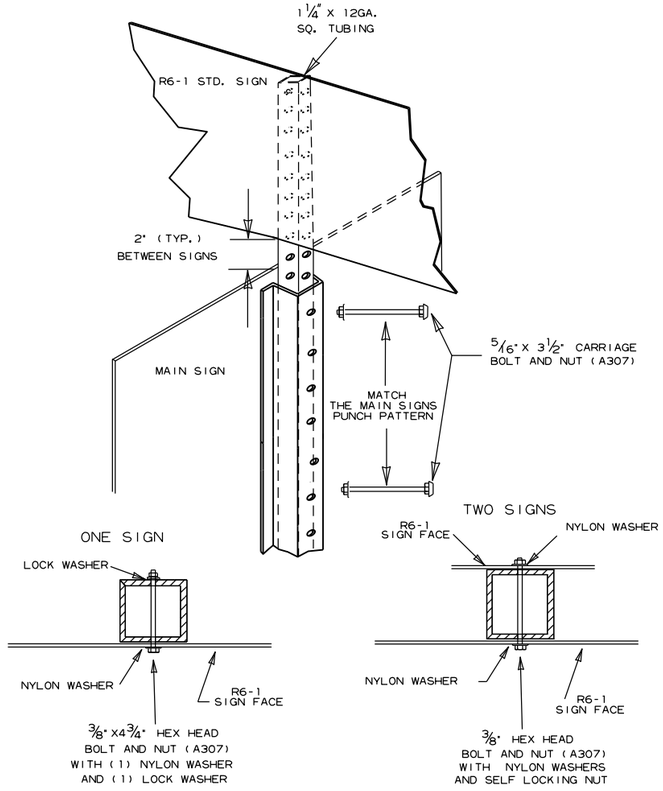
DETAIL C

SHOWING GUIDE SIGN MOUNTING WITH EXTRUDED PANELS



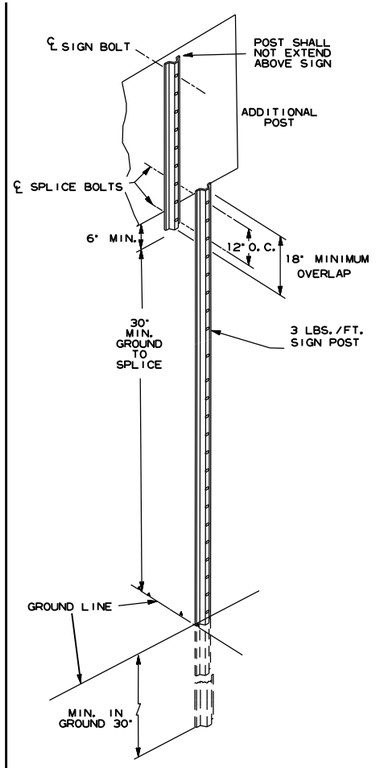
DETAIL C

U-CHANNEL POST



DETAIL E

R6-1 EXTENSION FOR U-CHANNEL POST



DETAIL F

DETAIL OF SPLICES

NOTES:

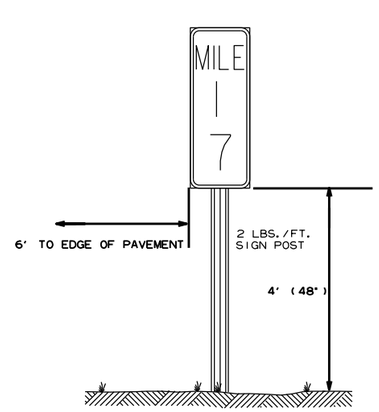
SIGNS AT LEAST 8' IN LENGTH MAY BE INSTALLED ON THREE 3 LB. POST. IN NO CASE SHALL THERE BE MORE THAN TWO 3 LB. POSTS WITHIN A 7' PATH.

SPLICES NECESSARY TO ATTAIN PROPER MOUNTING HEIGHT SHALL BE AS SHOWN IN DETAIL (F).

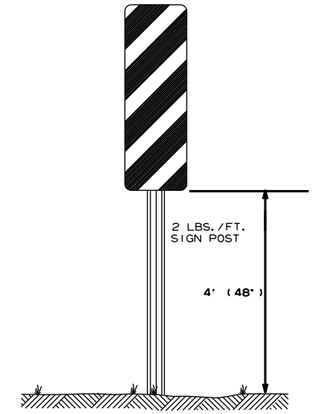
NORMAL INSTALLATIONS WILL REQUIRE 5/16" DIA. CARRIAGE BOLTS TO MOUNT SIGNS TO POST AND TO ASSEMBLE THE VARIOUS POST SUPPORTS.

ALL SIGN POSTS SHALL BE PLUMB.

THE POST FOR "TYPE U" SUPPORTS SHALL BE HOT DIP GALVANIZED.



TYPICAL MILE MARKER INSTALLATION



TYPICAL OM-3 INSTALLATION AT EDGE OF OBSTRUCTION

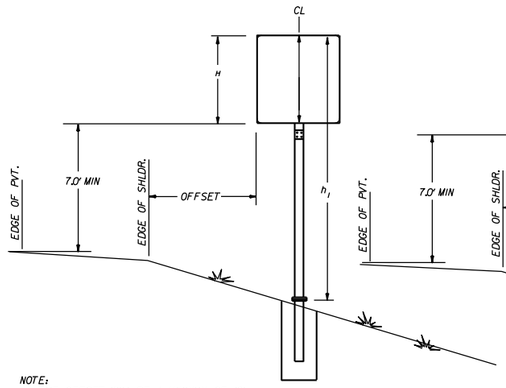
DATE	REVISION	FILMED
7-25-19	REVISED CARRIAGE BOLT WITH MATERIAL REQUIREMENT	
2-27-14	REVISED NOTES.	
9-12-13	REVISED U-2(3), U-2(6), U-3(1), DETAIL D; ADDED DETAILS E & F; ADDED TYPICAL MARKERS	
10-9-03	REMOVED ROUND POST & REVISED SPACING	
10-12-95	MOVED UPPER SPLICE	
6-8-95	REVISED SPLICE DETAIL	6-8-95
2-2-95	REDRAWN	2-2-95

ARKANSAS STATE HIGHWAY COMMISSION

U-CHANNEL POST ASSEMBLIES

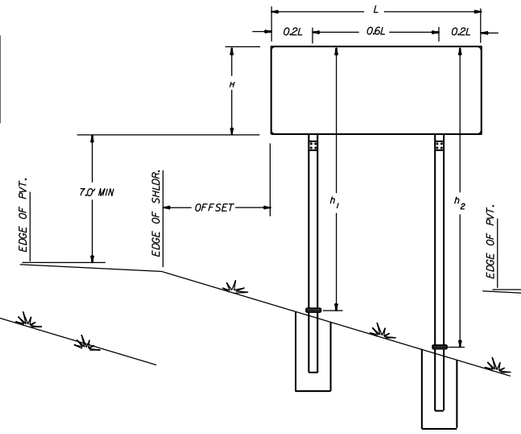
STANDARD DRAWING SHS-2

POST SIZE	BASE CONNECTION DATA											FUSE PLATE DATA									
	BOLT SIZE	BOLT TORQUE (INCH/LBS)	A	B	C	D	E	t_1	t_2	W	R	F	G		J	K	M	d_1	d_2	t_3	BOLT SIZE	WT.OF EACH FUSE PLATE LBS.
W 6X9																						
W 6X12	5/8" x 2 3/4"	450"-680"	5"	2"	1 1/4"	2 3/4"	1 1/8"	3/4"	1/2"	1/4"	11/32"	4 1/4"	2"		4"	2 1/4"	1"	9/16"	3/4"	1/4"	1/2" x 1 1/2"	1.01
W 6X15												5"	2 1/2"		6"	3 1/2"	1 1/2"	11/16"	1 1/4"	3/8"	5/8" x 2 1/4"	2.51
W 8X18												5"	2 1/2"		5 1/4"	2 3/4"	1 1/4"	13/16"	1 11/16"	3/8"	3/4" x 2 1/4"	2.26
W 8X21												5 1/2"	2 1/2"		5 1/4"	2 3/4"	1 1/4"	13/16"	1"	1/2"	3/4" x 2 1/4"	3.35
W 10X22	3/4" x 3 1/2"	750"-1050"	6"	2 1/4"	1 3/8"	3 1/2"	1 1/4"	1"	3/4"	5/16"	11/32"	6"	3"		5 3/4"	2 3/4"	1 3/8"	1 3/16"	1 1/8"	1/2"	3/4" x 2 1/4"	4.03
W 10X26																						
W 12X26												6"	3"		6 1/2"	3 1/2"	1 5/8"	1 3/16"	1 15/16"	1/2"	3/4" x 2 1/4"	4.47

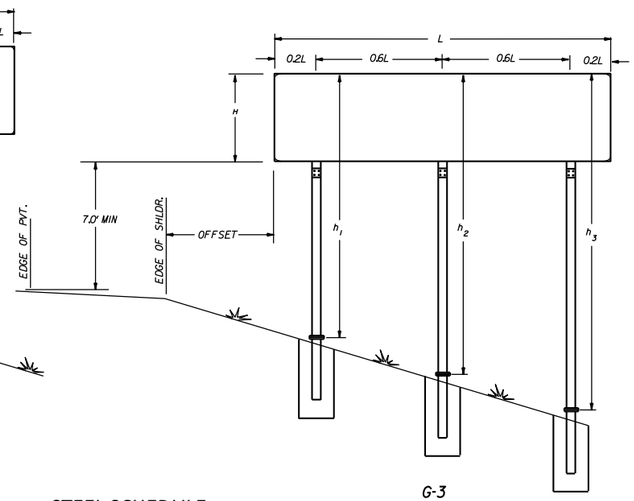


NOTE:
THE OFFSET WILL BE A MINIMUM OF 10' FROM THE EDGE OF PAVED SURFACE OR AS DIRECTED BY THE ENGINEER

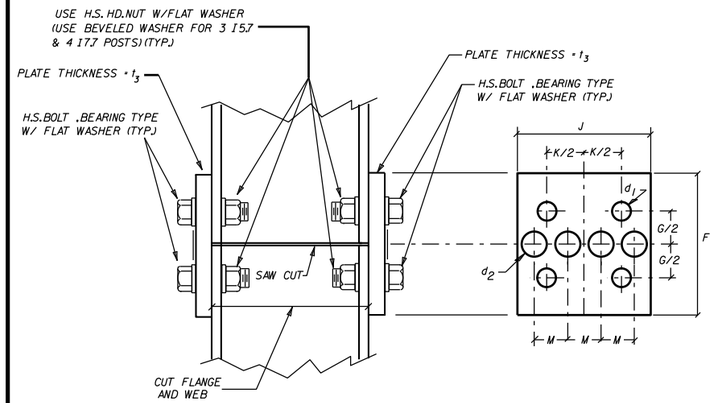
G-1



G-2

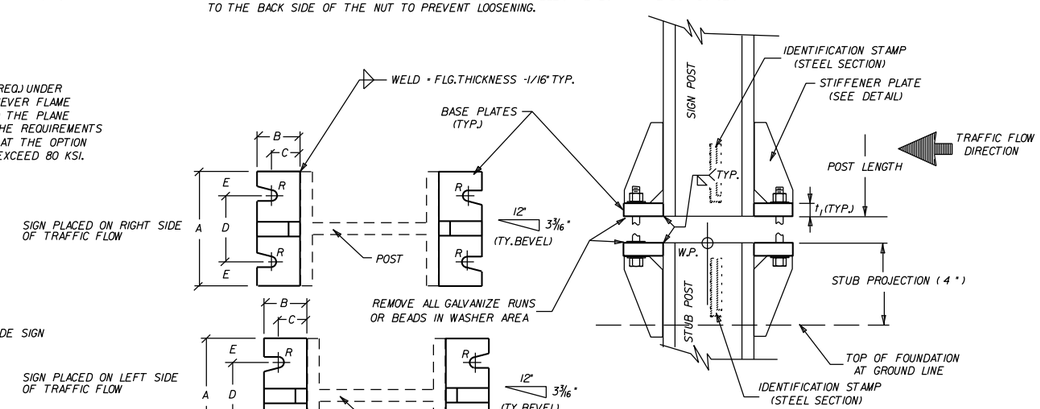


G-3

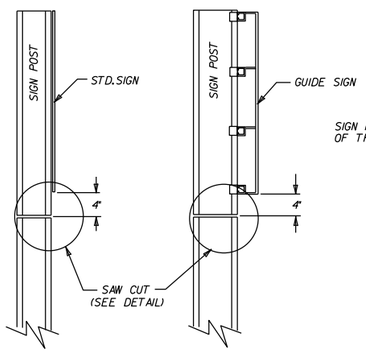


NOTE: USE H.S.HEX HEAD BOLTS,HEX HEAD NUTS AND BEVEL OR FLAT WASHERS (WHERE REQ.) UNDER NUTS. ALL HOLES SHALL BE DRILLED.ALL PLATE CUTS SHALL PREFERABLY BE SAW CUTS,HOWEVER FLAME CUTTING WILL BE PERMITTED PROVIDED ALL EDGES ARE GROUND. METAL PROJECTING BEYOND THE PLANE OF THE PLATE FACE WILL NOT BE PERMITTED. STEEL FUSE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM-A36,ASTM-A441,ASTM-572 GRADE 50,OR ASTM-A588 MAY BE SUBSTITUTED FOR A36 AT THE OPTION OF THE FABRICATOR. STEEL USED SHALL HAVE AN ULTIMATE TENSILE STRENGTH NOT TO EXCEED 80 KSI.

NOTE: SECTIONS SHOWN ARE FOR INSTALLATION ON THE RIGHT SHOULDER AND IN THE GORE. BOLT HOLES IN BASE PLATE ARE SLOTTED AND BEVELED AS SHOWN. USE H.S.BOLTS WITH HEX HD.,HEX NUT AND THREE FLAT WASHERS FOR EACH BOLT.SEE TABLE FOR BOLT DIA. AND TORQUE.
NOTE: ASSEMBLE SIGN POST TO STUB POST USING THE BOLTS SPEC.IN THE TABLE AND AS SHOWN IN THE ELEVATION DETAILS. THERE SHALL BE THREE FLAT WASHERS ON EACH BOLT LOCATED AS SHOWN IN THE ELEVATIONS. USE A SHIM TO PLUMB THE SIGN POST. THEN TIGHTEN THE BOLTS USING A 12" TO 15" WRENCH UNTIL THE WASHERS AND SHIMS ARE SEATED AND THE BOLT THREADS ARE CLEAR ,THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE (SEE TABLE). THE BURR THREADS ADJACENT TO THE BACK SIDE OF THE NUT TO PREVENT LOOSENING.



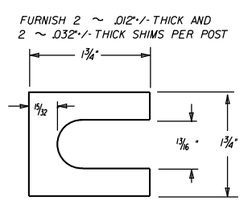
NOTE: BOLT HOLES,USED IN THE MOUNTING OF STANDARD SIGNS SHALL BE LOCATED IN THE FLANGE ADJACENT TO THE NEAR EDGE OF PAVEMENT FOR SINGLE POST ASSEMBLIES AND IN THE OUTSIDE FLANGES FOR MULTIPLE POST ASSEMBLIES.



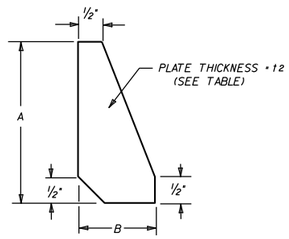
NOTE: POST SHALL BE SAW CUT AFTER GALVANIZING AND THE CUT SURFACE TREATED. AFTER PLATE IS INSTALLED AND ALL BOLTS FULLY TIGHTENED. REPAIR OF CUT SURFACES AFTER GALVANIZING SHALL BE IN ACCORDANCE WITH ASTM A123.

STANDARD SIGNS GUIDE SIGNS

FUSE PLATE DETAILS



SHIM DETAIL



STIFFENER PLATE DETAIL

GENERAL NOTES

TIGHTEN THE HIGH STRENGTH BOLTS IN THE BASE CONNECTION ONLY TO THE TORQUE SHOWN. DO NOT OVERTIGHTEN.

BASE PLATES AND STIFFENER PLATES SHALL BE OF THE SAME MATERIAL AS THE PRIMARY SUPPORT POSTS WHICH THEY ARE WELDED.

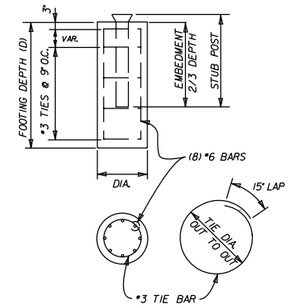
REFER TO THE PLANS FOR FOOTING DIMENSIONS.

EACH STUB POST AND SIGN POST SHALL HAVE A PERMANENT IDENTIFYING STAMP WHICH SPECIFIES THE STEEL SECTION USED. IF THE CONTRACTOR ELECTS TO SHIP THE STUB POST SEPARATE FROM THE SIGN POST A MATCH MARK SYSTEM WILL BE REQUIRED.

STEEL SCHEDULE

FOOTING DIAMETER	#3 TIE BARS		
	DIAMETER	BAR LENGTH	POUNDS
INCHES	INCHES	FEET	
18	12	4.39	1.65
24	18	5.96	2.24
30	24	7.53	2.83
36	30	9.1	3.42

FOOTINIG DEPTH	#6 STRAIGHT BARS		
	BAR LENGTH	NUMBER REQ'D.	POUNDS
FEET	FEET		
2.50	2.00	8	24.03
3.00	2.50	8	30.04
3.50	3.00	8	36.05
4.00	3.50	8	42.06
4.50	4.00	8	48.06
5.00	4.50	8	54.07
5.50	5.00	8	60.08
6.00	5.50	8	66.09
6.50	6.00	8	72.10
7.00	6.50	8	78.10
7.50	7.00	8	84.11
8.00	7.50	8	90.12



FOOTING QUANTITIES

FOOTING DEPTH	NUMBER TIE BARS REQ'D	18" DIAMETER		24" DIAMETER		30" DIAMETER		36" DIAMETER	
		CLASS S CONCRETE	REINF STEEL	CLASS S CONCRETE	REINF STEEL	CLASS S CONCRETE	REINF STEEL	CLASS S CONCRETE	REINF STEEL
FEET		CU. YD.	(GRADE 60)	CU. YD.	(GRADE 60)	CU. YD.	(GRADE 60)	CU. YD.	(GRADE 60)
2.50	4	0.16	31						
3.00	4	0.20	37						
3.50	5	0.23	44						
4.00	6	0.26	52	0.47	56				
4.50	6	0.29	58	0.52	62				
5.00	7	0.33	66	0.58	70	0.91	74		
5.50	8			0.64	78	1.00	83		
6.00	8			0.70	84	1.09	89	1.57	93
6.50	9					1.18	98	1.70	103
7.00	10					1.27	106	1.83	112
7.50	10							1.96	118
8.00	11							2.09	128

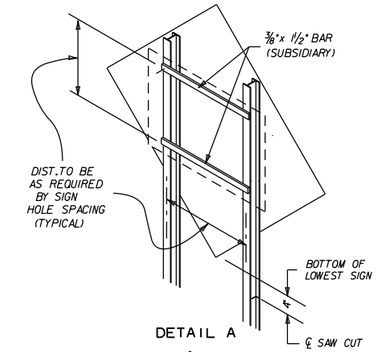
SIGN POST AND STUB POST

DATE	REVISION	FILMED
5-19-22	REVISED FUSE PLATE DETIALS' NOTE.	
9-12-13	ISSUED	

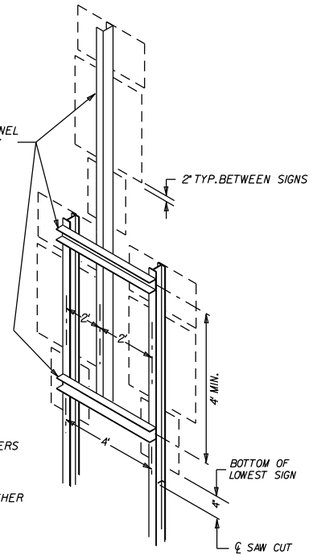
ARKANSAS STATE HIGHWAY COMMISSION

DETAIL OF BREAKAWAY SIGN SUPPORTS FOR GUIDE SIGNS

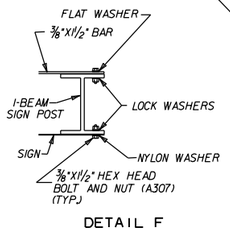
STANDARD DRAWING SHS-3



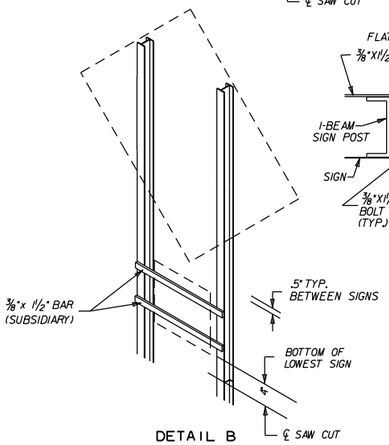
DETAIL A



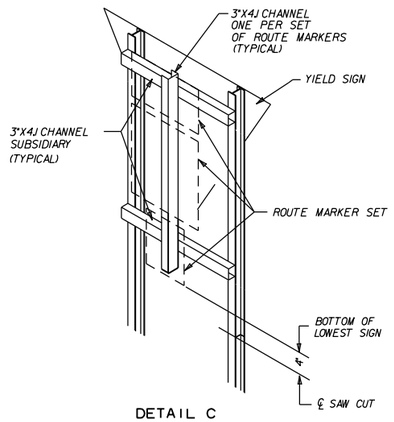
DETAIL D



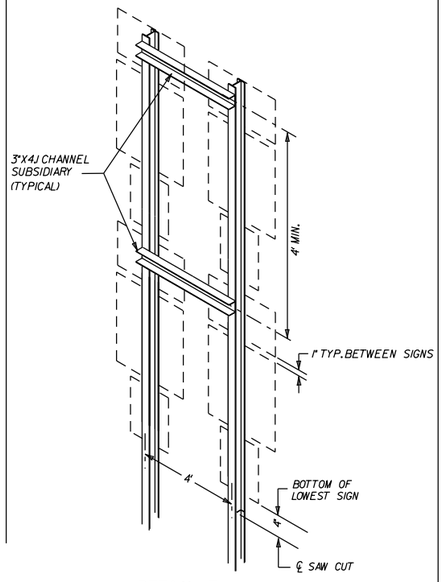
DETAIL F



DETAIL B



DETAIL C



DETAIL E

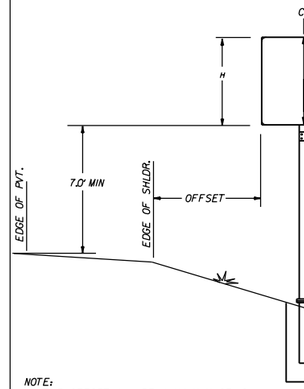
NOTE

ALL ADDITIONAL MOUNTING HARDWARE, BOLTS, NUTS, CHANNELS AND BAR STRAPS REQUIRED TO MOUNT SECONDARY SIGNS WILL BE CONSIDERED TO BE SUPPLEMENTAL TO THE MAIN SIGN SUPPORT SPECIFIED. PAYMENT WILL BE CONSIDERED SUBSIDIARY TO THE MAIN SUPPORT.

THE GALVANIZED STEEL CHANNEL AND BAR SUPPORTS MAY BE ASTM A-36.

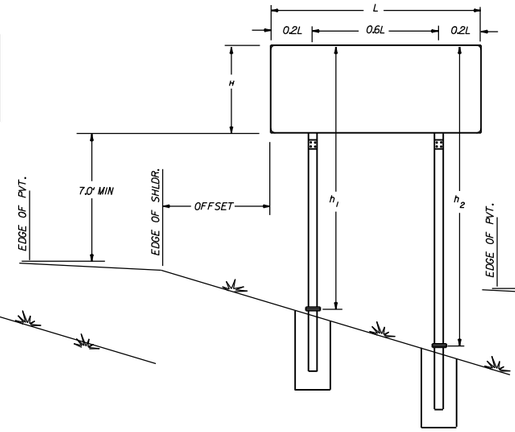
REFER TO THE P.C. RUTLEDGE FORMULA ON PAGE 58 OF THE AASHTO PUBLICATION "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.

ALL BOLT HOLES SHALL BE 1/8" DIA. UNLESS OTHERWISE SHOWN.

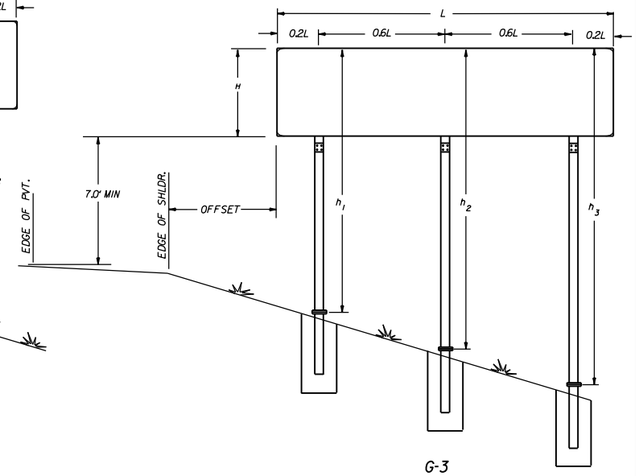


NOTE:
THE OFFSET WILL BE A MINIMUM OF 10' FROM THE EDGE OF PAVED SURFACE OR AS DIRECTED BY THE ENGINEER.

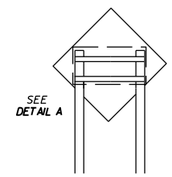
G-1



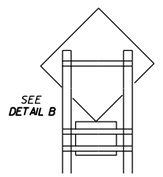
G-2



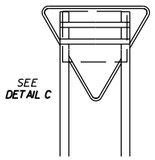
G-3



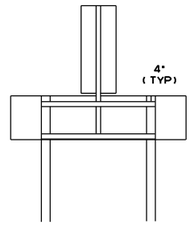
G2-1



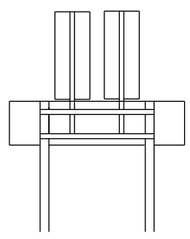
G2-2



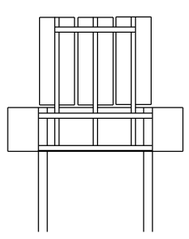
G2-3



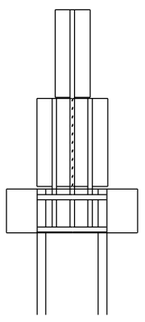
G2-4



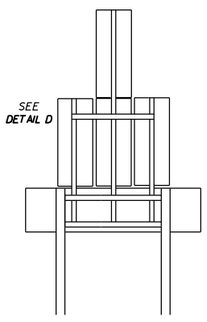
G2-5



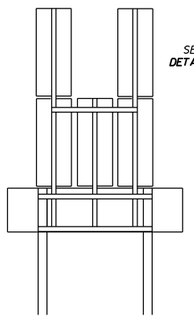
G2-6



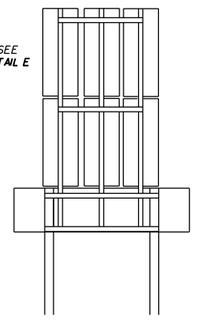
G2-7



G2-8



G2-9



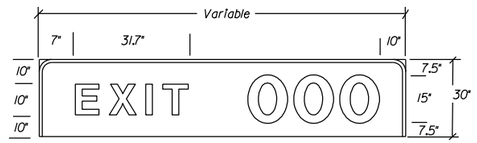
G2-10

			ARKANSAS STATE HIGHWAY COMMISSION
			DETAIL OF BREAKAWAY SIGN SUPPORTS FOR STANDARD SIGNS
9-12-13	ISSUED		STANDARD DRAWING SHS-4
DATE	REVISION	FILMED	



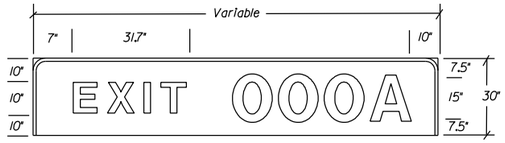
TYPICAL DETAIL

TYPE A



EXIT WITH 1 DIGIT 84"X30"=17.50 SF
EXIT WITH 2 DIGITS 96"X30"=20.0 SF
EXIT WITH 3 DIGITS 114"X30"=23.57 SF

TYPE B

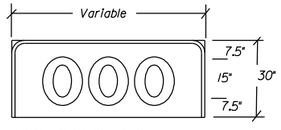


EXIT WITH 1 DIGIT PLUS "A"OR"B" 96"X30"=20.0 SF
EXIT WITH 2 DIGITS PLUS "A"OR"B" 114"X30"=23.57 SF
EXIT WITH 3 DIGITS PLUS "A"OR"B" 126"X30"=26.25 SF

TYPE C

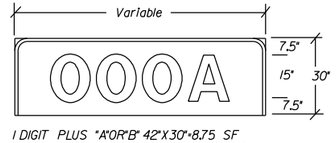
EXITS WITH 1 DIGIT PLUS "A"&"B" 132"X30"=27.50 SF
EXITS WITH 2 DIGITS PLUS "A"&"B" 150"X30"=31.25 SF
EXITS WITH 3 DIGITS PLUS "A"&"B" 168"X30"=35.00 SF

TYPE D



1 DIGIT 24"X30" =5.0 SF
2 DIGITS 42"X30" =8.75 SF
3 DIGITS 60"X30" =12.50 SF

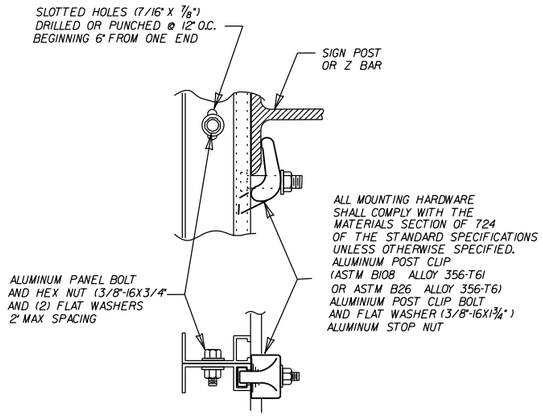
TYPE E

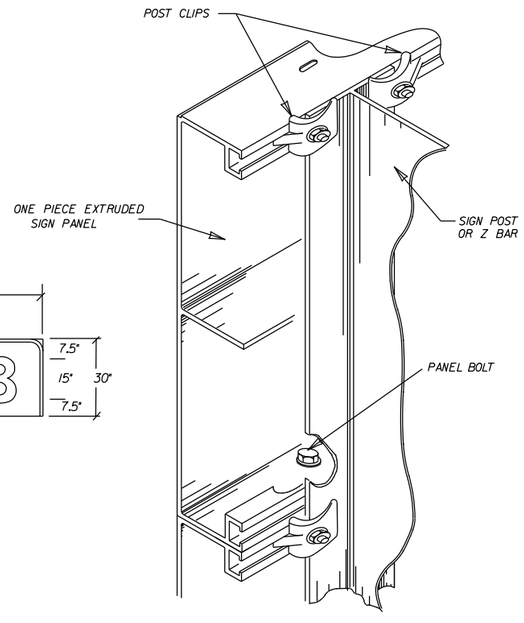


1 DIGIT PLUS "A"OR"B" 42"X30"=8.75 SF
2 DIGITS PLUS "A"OR"B" 60"X30"=12.50 SF
3 DIGITS PLUS "A"OR"B" 78"X30"=16.25 SF

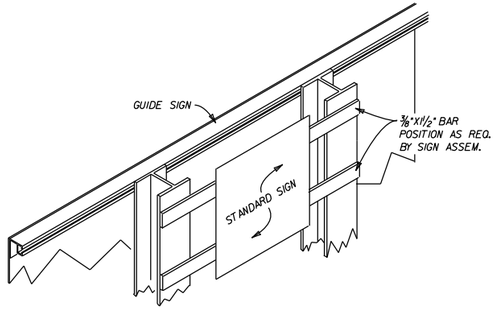
EXIT PANEL DETAILS

NOTE: EXIT NUMBER PANELS SHALL HAVE WHITE LEGENDS AND BORDERS. THE BACK GROUND COLOR WILL BE AS USE SPECIFIES. SHEETING TYPE WILL BE THE SAME AS THE GUIDE SIGN WHICH THE EXIT PANEL IS ATTACHED OR AS SPECIFIED IN THE PLANS. PAYMENT FOR ALL POST CLIPS, BOLTS, AND ANGLES SHALL BE SUBSIDIARY TO THE ITEM "EXIT NUMBER PANEL".

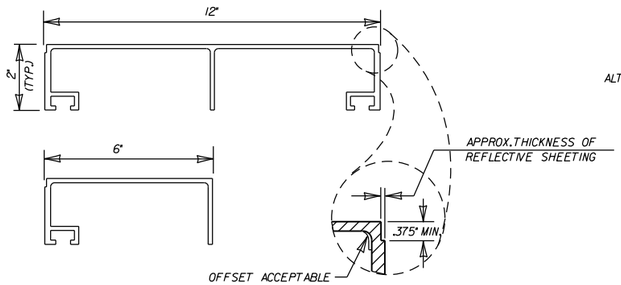




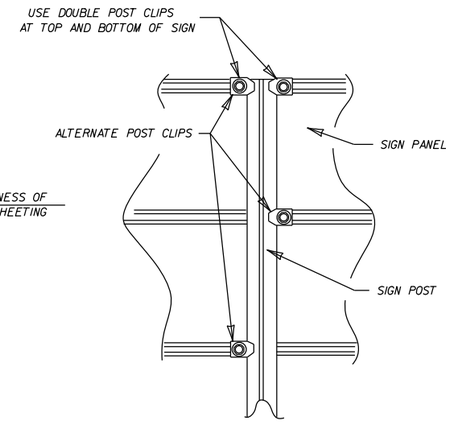
MOUNTING HARDWARE



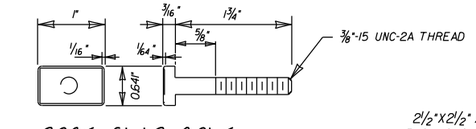
SECONDARY SIGN INSTALLATION ON BACKSIDE OF GUIDE SIGN



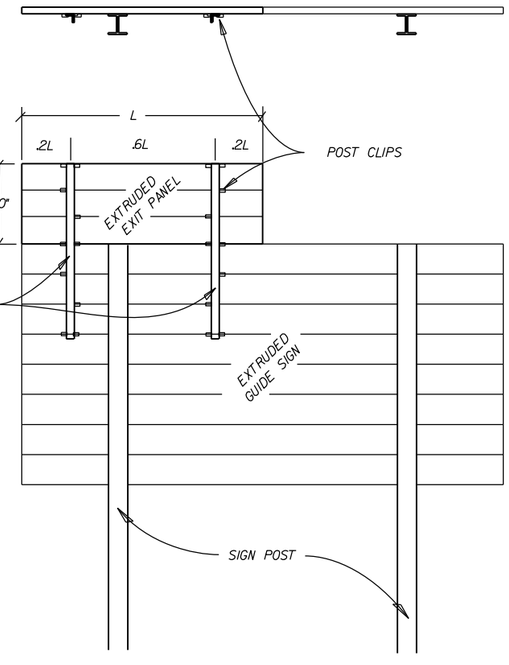
ONE PIECE EXTRUDED SIGN PANELS



POST CLIP PLACEMENT



POST CLIP BOLT



9-12-13	ISSUED	
DATE	REVISION	FILMED

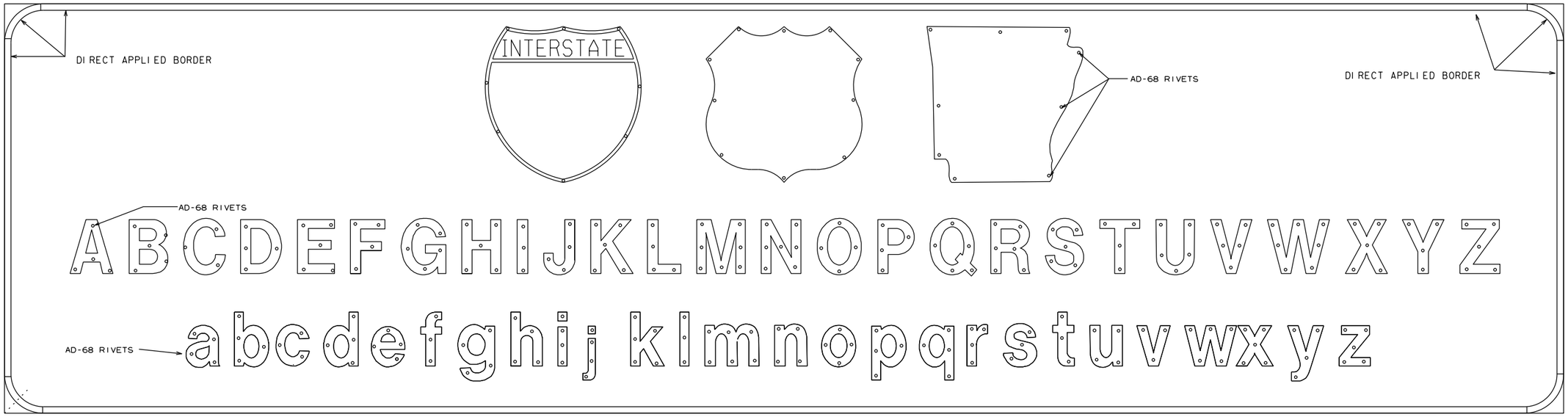
ARKANSAS STATE HIGHWAY COMMISSION

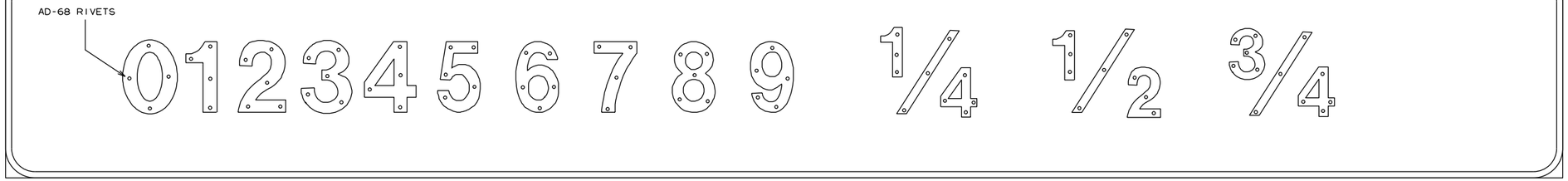
DETAILS OF GUIDE SIGN PANELS

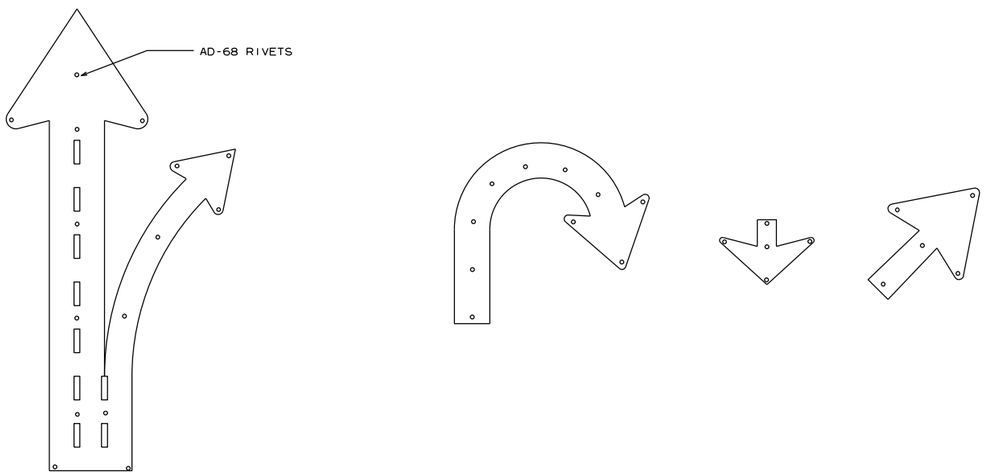
STANDARD DRAWING SHS-5

THE CONTRACTOR SHALL DRILL AND POP-RIVET LEGEND, SHIELDS, ARROWS, OR OTHER COPY AS SHOWN.

MOUNTING DETAILS FOR DEMOUNTABLE LEGEND ON GUIDE SIGNS







NOTES:

LEGEND ON GUIDE SIGNS ON THE MAIN LANES SHALL BE DEMOUNTABLE LEGEND.
LEGEND ON GUIDE SIGNS ON CROSS ROADS AND RAMPS SHALL BE DIRECT APPLIED.
THE DEMOUNTABLE AND DIRECT APPLIED LEGENDS SHALL BE TYPE IX SHEETING.

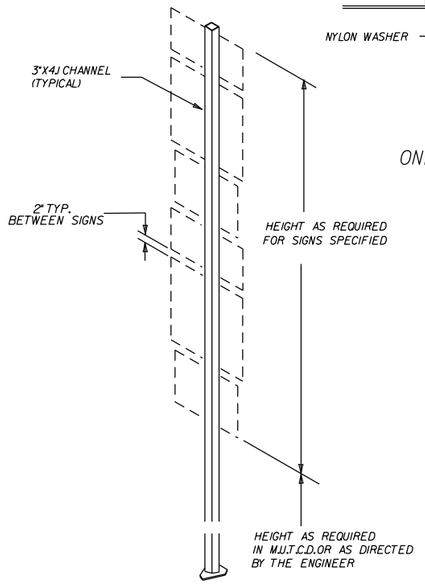
THE BACKGROUND ON ALL GUIDE SIGNS AND STANDARD SIGNS SHALL BE CONSTRUCTED USING TYPE III SHEETING.

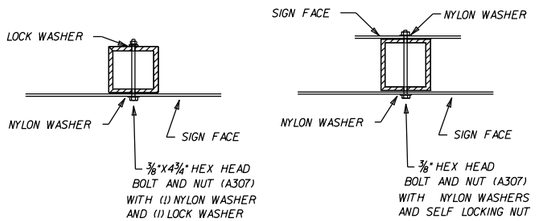
TYPE IX SHEETING FOR BORDER, LEGEND, SHIELDS, ARROWS, OR OTHER COPY SHALL BE ORIENTED VERTICALLY AS PER MANUFACTURERS' DATUM MARKS, ORIENTATION MARKS, OR OTHER RECOMMENDATIONS.

SIGN LEGEND, SHIELDS, ARROWS OR OTHER COPY SHALL BE APPLIED WITH RIVETS ONLY.

NO OTHER METHOD OF APPLYING CHARACTERS IS ALLOWED.

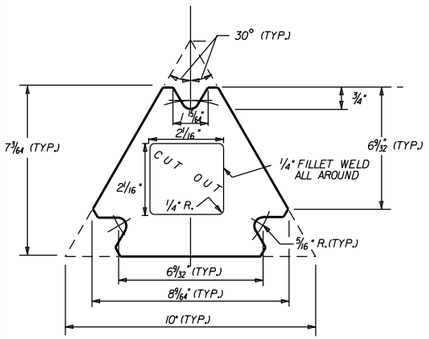
			ARKANSAS STATE HIGHWAY COMMISSION
			MOUNTING DETAILS FOR DEMOUNTABLE LEGEND ON GUIDE SIGNS
9-12-13	ISSUED		STANDARD DRAWING SHS-6
DATE	REVISION	FILMED	



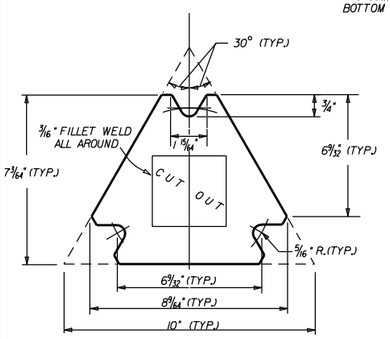


CHANNEL SHALL BE FULL LENGTH OF RECTANGULAR AND SQUARE SIGNS AND SHALL EXTEND 1½" BEYOND BOLT HOLES ON DIAMOND OR IRREGULAR SHAPED SIGNS.

MOUNTING HARDWARE



TOP PLATE



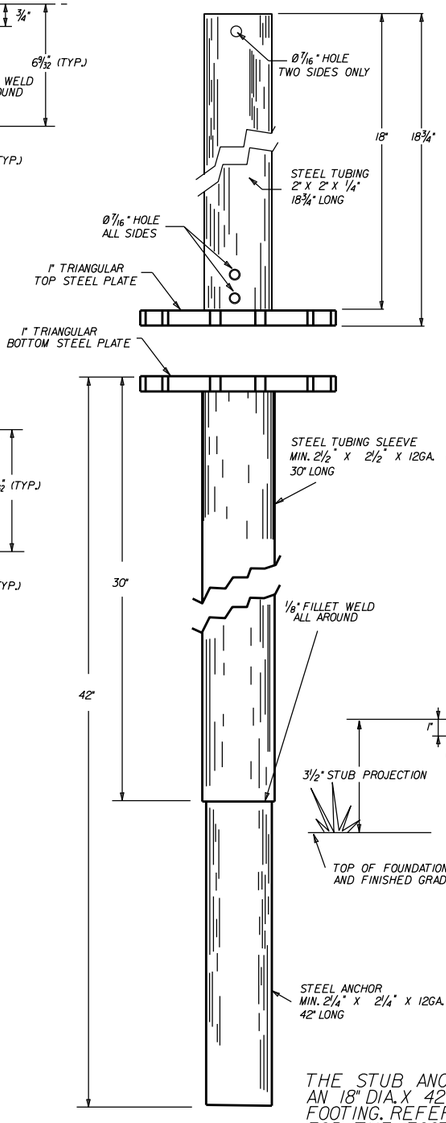
BOTTOM PLATE

GENERAL NOTES:

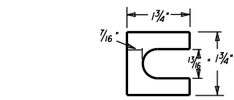
THE TOP PLATE OF TRIANGULAR SLIP BASES SHALL HAVE THE SAME EXTERIOR DIMENSIONS AS THE BOTTOM PLATE.

INSIDE DIAMETER OF THE SIGN POST SHALL BE CUT THROUGH THE CENTER OF THE TOP PLATE WITH THE HOLE EDGE BEVELED AS SHOWN. THE BEVEL END SHALL BE TANGENT TO THE BOLT HOLE . ANY MISALIGNMENT SHALL BE REMOVED BY GRINDING . FACE OF BEVEL SHALL BE FINISHED TO A MINIMUM SMOOTHNESS OF 1•500 .

OTHER MASH COMPLIANT BREAKAWAY SIGN SUPPORTS THAT HAVE THE SAME TOP PLATE DIMENSIONS AND SUPPORT 2¼" X 2¼" SQUARE TUBE SIGN POSTS MAY BE SUBSTITUTED AS APPROVED BY THE ENGINEER.

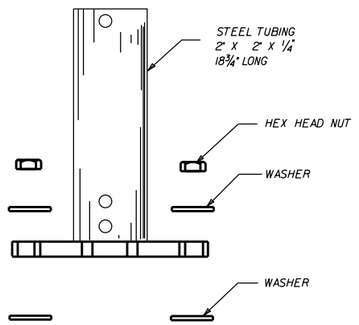


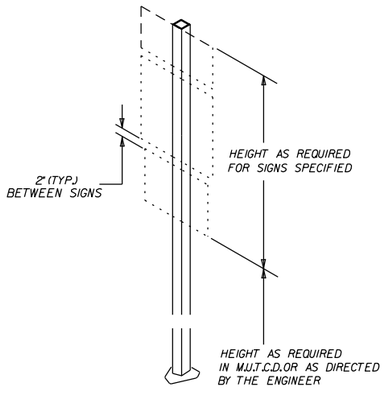
THE STUB ANCHOR SHALL BE SET IN AN 18" DIA. X 42" DEEP CONCRETE FOOTING. REFER TO STD.DRWG.SHS-3 FOR THE FOOTING DETAILS.



FURNISH (2) .012" THICK AND (2) .032" THICK SHIMS PER POST

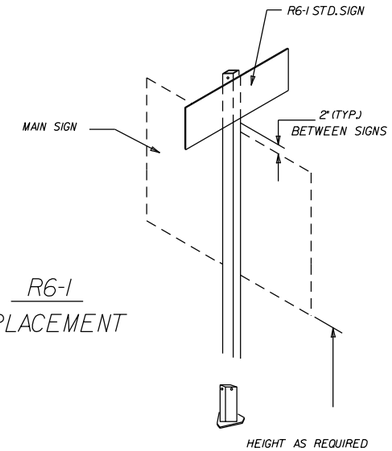
SHIM DETAIL





TYPE-I

BASIS OF ESTIMATE
APPROX. 100 lbs STEEL



R6-1 PLACEMENT

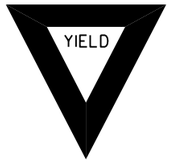
			ARKANSAS STATE HIGHWAY COMMISSION
			DETAIL OF OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS
9-12-13	ISSUED		STANDARD DRAWING SHS-7
DATE	REVISION	FILMED	

R1-1



STANDARD 30"X30"
EXPRESSWAY 36"X36"
SPECIAL 48"X48"

R1-2



STD. 36"X36"X36"
EXPWY. 48"X48"X48"
FWY. 60"X60"X60"

R2-1



STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

W3-5



STD. 36"X36"
EXPWY. 48"X48"
FWY. 48"X48"

W3-5a



STD. 36"X36"
EXPWY. 48"X48"
FWY. 48"X48"

R4-1



STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

R4-2



STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

R5-1



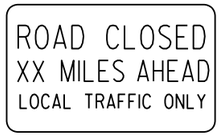
STD. 30"X30"
EXPWY. 36"X36"
SPECIAL 48"X48"

R11-2



48"X30"

R11-3A



60"X30"

R11-4



60"X30"

W21-5a



STD. 36"X36"
FWY. 48"X48"

W1-1



STD. 36"X36"
FWY. 48"X48"

W1-2



STD. 36"X36"
FWY. 48"X48"

W1-3



STD. 48"X48"

W1-4



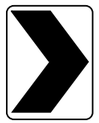
STD. 48"X48"

W1-6



STD. 48"X24"
SPECIAL 60"X30"

W1-8



STD. 18"X24"
SPECIAL 24"X30"
EXPWY. 30"X36"
FWY. 36"X48"

W3-1



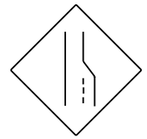
STD. 36"X36"
SPECIAL 48"X48"

W3-2



STD. 36"X36"
SPECIAL 48"X48"

W4-2



STD. 36"X36"
FWY. 48"X48"

W5-1



STD. 36"X36"
SPECIAL 48"X48"

W6-3



EXPWY. 36"X36"
SPECIAL 48"X48"

W8-7



EXPWY. 36"X36"
FWY. 48"X48"

W9-2



STD. 36"X36"
FWY. 48"X48"

W13-1



STD. 24"X24"

W20-1



STD. 48"X48"

W20-2



STD. 48"X48"

W20-3



STD. 48"X48"

W20-4



STD. 48"X48"

W20-5



STD. 48"X48"

W20-7a



STD. 36"X36"
FWY. 48"X48"

W21-2



STD. 30"X30"
SPECIAL 36"X36"

W21-5



STD. 30"X30"
SPECIAL 36"X36"

W24-1



STD. 36"X36"

W1-4b



STD. 48"X48"

R56-1



STD. 18"X18"

W8-11



STD. 36"X36"
FWY. 48"X48"

W8-9



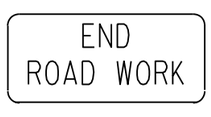
STD. 36"X36"
FWY. 48"X48"

G20-1



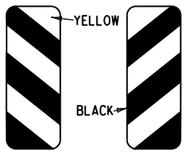
60"X24"

G20-2



48"X24"

OM-3L OM-3R



12"X36"

M4-9



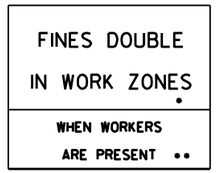
STD. 30"X24"
SPECIAL 48"X36"
SPECIAL 60"X48"

M4-10



48"X18"

R55-1



36"X60"

• USE 6" C LETTERS
•• USE 4" D LETTERS

ADVANCE DISTANCES
(XXXX)

500 FT	½ MILE
1000 FT	¾ MILE
1500 FT	1 MILE AHEAD

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND TO THE STANDARD HIGHWAY SIGNS, LATEST EDITION, OR AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
2. TRAFFIC CONTROL DEVICES SHALL BE SET UP JUST BEFORE THE START OF CONSTRUCTION OPERATIONS AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SUCH CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS NEEDED AND REMOVED THEREAFTER.
3. EXISTING SIGNS AND CONSTRUCTION SIGNS SHALL BE KEPT IN PROPER POSITION, AND BE CLEAN AND LEGIBLE AT ALL TIMES. SIGNS THAT DO NOT APPLY TO EXISTING CONDITIONS SHALL BE REMOVED. SIGNS THAT ARE DAMAGED, DEFACED, OR THAT ACCUMULATE DIRT DURING CONSTRUCTION SHALL BE CLEANED, REPAIRED, OR REPLACED.
- 4. SIGNS ARE USUALLY MOUNTED ON A SINGLE POST, ALTHOUGH THOSE WIDER THAN 36" OR LARGER THAN 10 SQ. FT. SHALL BE MOUNTED ON TWO POSTS OR ABOVE A TYPE III BARRICADE.
- 5. SIGN POSTS DIRECT BURIED IN SOIL SHALL BE 2 LB. MINIMUM CHANNEL POST OR 4"x4" WOOD POSTS. CHANNEL POSTS SHALL BE PAINTED GREEN. WOOD POSTS SHALL BE PAINTED WHITE. ALL POSTS SHALL BE NEATLY CONSTRUCTED, AND SHALL BE REPLUMBED, CLEANED, OR REPAIRED AS NEEDED FOR THE DURATION OF THE JOB. THERE SHALL NOT BE MORE THAN 2 POSTS IN A 7' PATH FOR WOOD OR CHANNEL POSTS. ANY CHANNEL POST SPLICE SHALL BE IN ACCORDANCE WITH STANDARD DRAWING TC-3.
6. POST MOUNTED SIGNS IN RURAL AREAS SHALL BE CONSTRUCTED WITH THE NEAR EDGE OF THE SIGN FROM 6 TO 12 FEET FROM THE PAVEMENT EDGE. SIGNS IN URBAN AREAS AND BARRICADE MOUNTED SIGNS SHALL BE MOUNTED A MINIMUM OF 2 FEET FROM THE PAVEMENT EDGE.
7. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN URBAN AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN RURAL AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE, EXCEPT A MINIMUM OF 6' SHALL BE USED WHEN MOUNTING AN ADVISORY SIGN BELOW A WARNING SIGN. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR INTERMEDIATE TERM STATIONARY WORK CONDITIONS. THE SIGNS MINIMUM MOUNTING HEIGHT SHALL BE 5'. RETROREFLECTIVE DEVICES SHALL BE USED. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR SHORT-TERM, SHORT DURATION, AND MOBILE CONDITIONS. THEY SHALL BE NO LESS THAN ONE (1) FOOT ABOVE THE TRAVELED WAY. LONG-TERM STATIONARY SIGNS SHALL BE DIRECT BURIED IN SOIL, UNLESS CONDITIONS NECESSITATE THE USE OF PORTABLE SIGNS, OR AS APPROVED BY THE ENGINEER. CONCRETE PADS, CONCRETE OR ROCK BALLAST, OR OTHER SOLID MATERIALS SHALL NOT BE UTILIZED WITH PORTABLE SIGN SUPPORTS.
8. FLAGGERS SHALL USE REFLECTORIZED STOP-SLOW PADDLES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.
9. MOST OF THE SIGNS SHOWN ARE ORIENTED TO THE RIGHT. HOWEVER, THIS DOES NOT PRECLUDE THE USE OF MIRROR IMAGES OF THESE SIGNS WHERE THE REVERSE ORIENTATION MIGHT BETTER CONVEY TO MOTORISTS THE PROPER DIRECTION OF MOVEMENT.
10. R55-1 SIGNS SHALL BE PLACED AT LEAST 1500' BUT NOT MORE THAN 1 MILE IN ADVANCE OF THE WORK ZONE. IF A SPEED LIMIT REDUCTION IS IN EFFECT, THE SIGN SHALL BE PLACED A MINIMUM OF 500' IN ADVANCE OF THE "REDUCED SPEED AHEAD" SIGN.

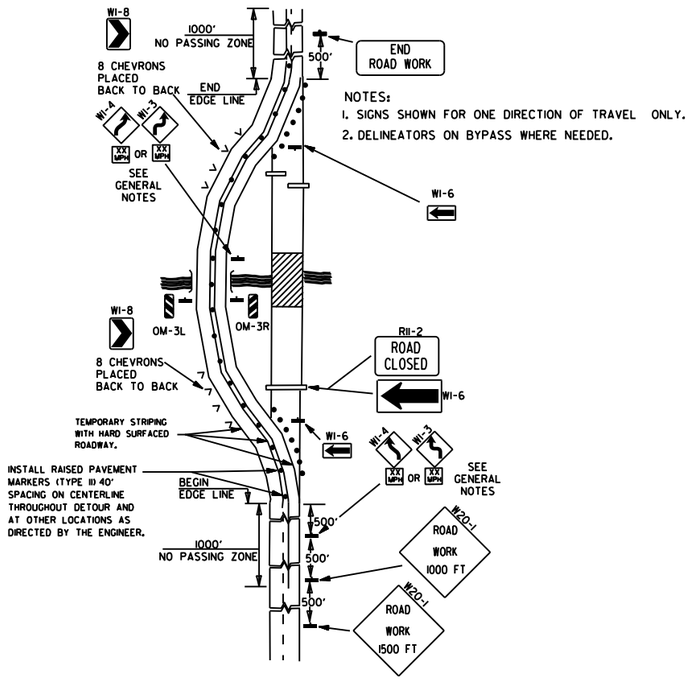
- NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED FOR ALL PROJECTS.

DATE	REVISION	FILMED
11-07-19	REVISED FOR MASH	
4-13-17	DELETED RSP-1 & ADDED W21-5a	
9-2-15	REVISED REDUCED SPEED LIMIT AHEAD SIGNS REVISED ROAD WORK NEXT XX MILES	
12-15-11	REVISED W24-1	
11-17-10	DELETED W8-9a & ADDED W8-9	
10-15-09	ADDED REFERENCE TO MASH & ADDED SIGN W24-1	
4-17-08	REVISED SIGN DESIGNATIONS	
11-18-04	REVISED NOTES	
10-9-03	REVISED NOTE 1	
11-16-01	REVISED NOTE 7	
9-28-00	REVISED NOTE	
11-18-98	ADDED NOTE	
6-26-97	REVISED NOTE 5	
4-03-97	REVISED NOTE 5	
10-18-96	ADDED CONTROLLED ACCESS HWY. SIGN & TO NOTE 7	
10-12-95	ADDED R55-1	
6-8-95	REVISED TO CORRECT SIGN ILLUSTRATIONS	6-8-95
2-2-95	REVISED PER PART VI, MUTCD SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

ARKANSAS STATE HIGHWAY COMMISSION

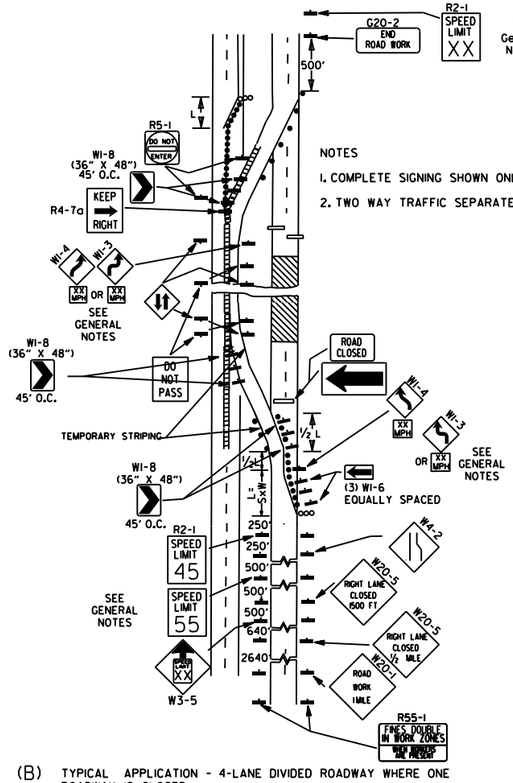
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-1



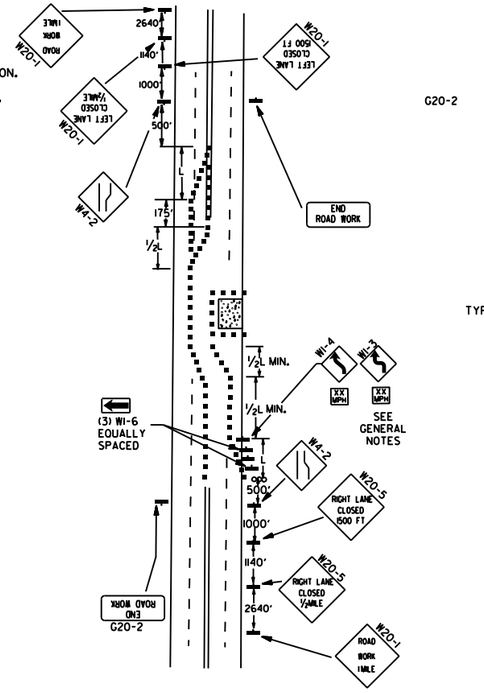
NOTES:
1. SIGNS SHOWN FOR ONE DIRECTION OF TRAVEL ONLY.
2. DELINEATORS ON BYPASS WHERE NEEDED.

(A) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON A 2-LANE HIGHWAY WHERE THE ENTIRE ROADWAY IS CLOSED AND A BYPASS DETOUR IS PROVIDED.

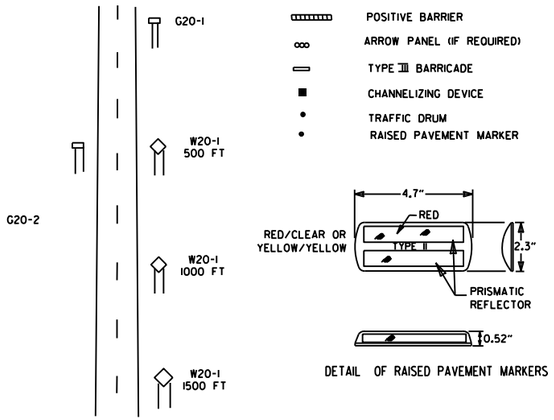


NOTES
1. COMPLETE SIGNING SHOWN ONLY IN CROSSOVER DIRECTION.
2. TWO WAY TRAFFIC SEPARATED WITH POSITIVE BARRIER.

(B) TYPICAL APPLICATION - 4-LANE DIVIDED ROADWAY WHERE ONE ROADWAY IS CLOSED.



(C) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.



DETAIL OF RAISED PAVEMENT MARKERS

TYPICAL ADVANCE WARNING SIGN PLACEMENT

TAPER FORMULAE:

L=SXW FOR SPEEDS OF 45MPH OR MORE.

$L = \frac{WS^2}{60}$ FOR SPEEDS OF 40MPH OR LESS.

WHERE:

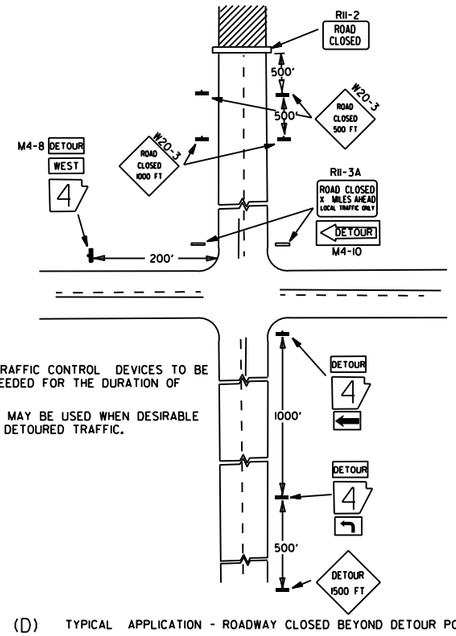
L= MINIMUM LENGTH OF TAPER.

S= NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85TH PERCENTILE SPEED.

W= WIDTH OF OFFSET.

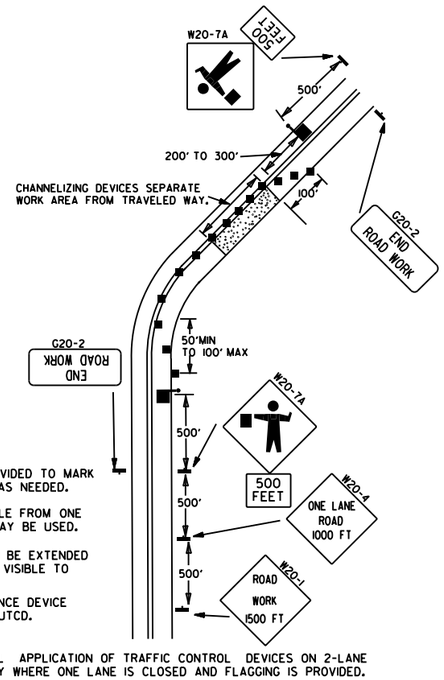
GENERAL NOTES:

1. THE MAINTENANCE DIVISION SHALL CONDUCT A BALL BANK STUDY TO DETERMINE THE ADVISORY SPEED LIMIT PRIOR TO OPENING TO TRAFFIC. THE ADVISORY SPEED WILL BE POSTED ON WI-3 OR WI-4 CURVE WARNING SIGNS. USE WI-4 WHEN SPEED IS GREATER THAN 30MPH AND WI-3 WHEN 30MPH OR LESS
2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(55) SHALL BE OMITTED AND THE W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-145MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
3. WHEN THE EXISTING SPEED LIMIT IS 65MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 55MPH, THE R2-1(45) SHALL BE OMITTED. ADDITIONAL R2-155MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
4. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT. BEYOND THE TAPER, MAXIMUM SPACING SHALL BE TWO TIMES THE SPEED LIMIT, OR AS DIRECTED BY THE ENGINEER.
5. WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.
6. PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
7. TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER. WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED DEVICES.
8. DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR SIMILAR MARKERS MAY BE MADE BY REFERRING TO THE ARDOT QUALIFIED PRODUCTS LIST.
9. ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).



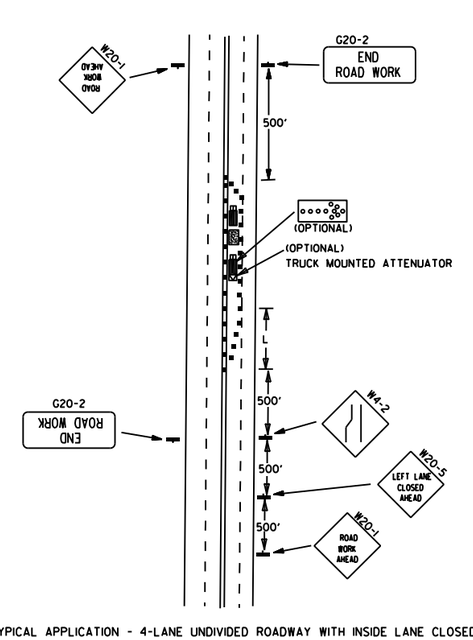
NOTES:
1. REGULATORY TRAFFIC CONTROL DEVICES TO BE MODIFIED AS NEEDED FOR THE DURATION OF THE DETOUR.
2. STREET NAMES MAY BE USED WHEN DESIRABLE FOR DIRECTING DETOURED TRAFFIC.

(D) TYPICAL APPLICATION - ROADWAY CLOSED BEYOND DETOUR POINT.



NOTES:
1. FLOOD LIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.
2. IF ENTIRE WORK AREA IS VISIBLE FROM ONE STATION, A SINGLE FLAGGER MAY BE USED.
3. CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
4. AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) OPTIONAL. REFER TO MUTCD.

(E) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON 2-LANE HIGHWAY WHERE ONE LANE IS CLOSED AND FLAGGING IS PROVIDED.



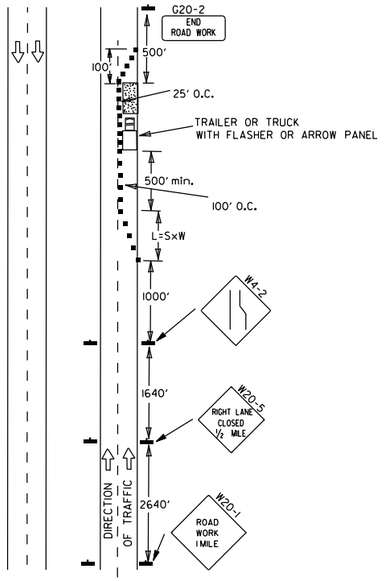
(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

DATE	REVISION	FILMED
05-20-21	REVISED NOTE 7	
11-07-19	REVISED NOTE 1, ADDED NOTE 9	
9-2-15	REVISED NOTE 2, ADDED NOTE 8, REVISED DRAWING (A) & REPLACED R2-5A WITH W3-5	
9-12-13	REVISED DETAIL OF RAISED PAVEMENT MARKERS	
3-11-10	ADDED (AFAD)	
11-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED GENERAL NOTE	
10-18-96	ADDED R55-1	
4-26-96	CORRECTED (a) BEHIND G20-2	
6-8-95	CORRECTED SIGN IDENT. ON W1-4A	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

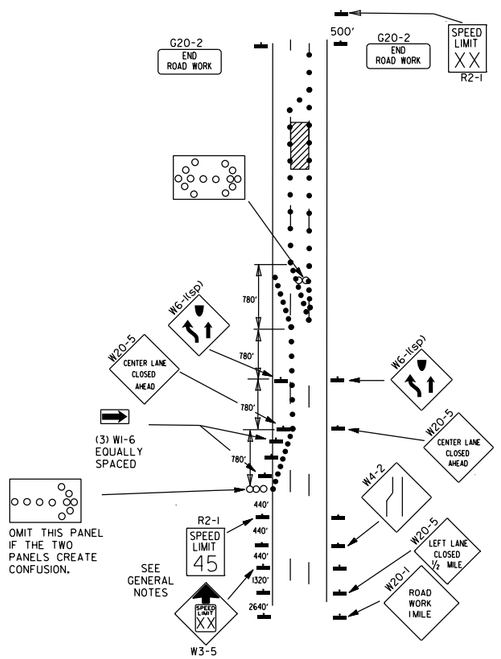
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-2



(A) TYPICAL APPLICATION - DAYTIME MAINTENANCE OPERATIONS OF SHORT DURATION ON A 4-LANE DIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.



(B) TYPICAL APPLICATION - 3-LANE ONEWAY ROADWAY WHERE CENTER LANE IS CLOSED.

KEY:

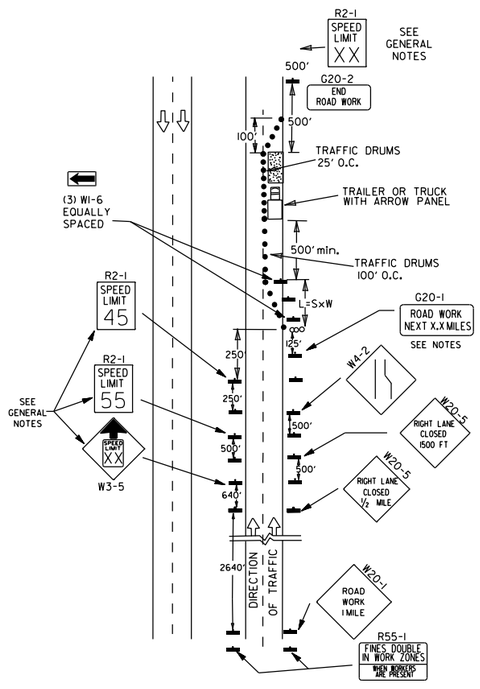
ARROW PANEL (IF REQUIRED)

■ CHANNELIZING DEVICE

● TRAFFIC DRUM

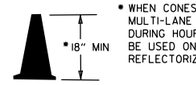
GENERAL NOTES:

1. A SPEED LIMIT REDUCTION MAY BE IMPLEMENTED ONLY WHEN DESIGNATED IN THE PLAN OR WHEN RECOMMENDED BY THE ROADWAY DESIGN DIVISION.
2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(55) SHALL BE OMITTED AND THE W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-1 45MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
3. WHEN THE EXISTING SPEED LIMIT IS 65MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 55MPH, THE R2-1(45) SHALL BE OMITTED. ADDITIONAL R2-1 55MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS, AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
4. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT. BEYOND THE TAPER, MAXIMUM SPACING SHALL BE TWO TIMES THE SPEED LIMIT OR AS DIRECTED BY THE ENGINEER.
5. WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.
6. PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
7. THE G20-1 SIGN WILL BE REQUIRED ON JOBS OF OVER TWO MILES IN LENGTH. WHEN THE LANE CLOSURE IS NOT AT THE BEGINNING OF THE PROJECT, THE G20-1 SIGN SHALL BE ERECTED 125' IN ADVANCE OF THE JOB LIMIT. ADDITIONAL W20-1 (1 MILE) SIGNS ARE NOT REQUIRED IN ADVANCE OF LANE CLOSURES THAT BEGIN INSIDE THE PROJECT LIMITS.
8. FLAGGERS SHALL USE STOP/SLOW PADDLES FOR CONTROLLING TRAFFIC THROUGH WORK ZONES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.
9. ALL PLASTIC DRUMS AND CONES SHALL MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
10. TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER. WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED DEVICES.
11. ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).



(C) TYPICAL APPLICATION - CONSTRUCTION OPERATIONS OF INTERMEDIATE TO LONG TERM DURATION ON A 4-LANE DIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.

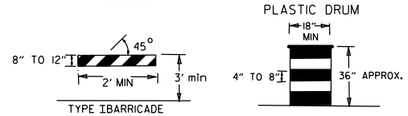
CHANNELIZING DEVICES



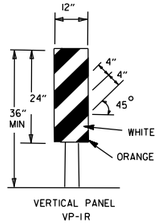
* WHEN CONES ARE USED ON FREEWAYS AND MULTI-LANE HIGHWAYS, THEY SHALL BE 28" MIN. DURING HOURS OF DARKNESS, 28" CONES SHALL BE USED ON ALL ROADWAYS, AND SHALL BE REFLECTORIZED IN ACCORDANCE WITH THE M.U.T.C.D.

CONES

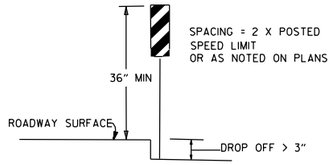
PLASTIC DRUM



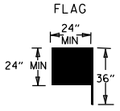
NOTE:
FOR ALL ROAD CLOSURES, THE TYPE III BARRICADES SHALL BE OF SUFFICIENT LENGTH TO EXTEND ACROSS ENTIRE ROADWAY.



VERTICAL PANEL PLACEMENT



FLAG



FLAG SHALL BE OF GOOD GRADE RED MATERIAL

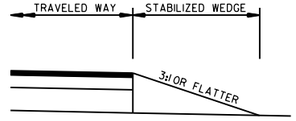
TRAFFIC CONTROL DEVICES			
NON-INTERSTATE			
VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL	
		≤ 45 MPH	> 45 MPH
≤ 1"	CENTERLINE	W8-11	W8-11
> 1" ≤ 3"	CENTERLINE	W8-11 AND CENTERLINE LANE STRIPING	W8-11 AND CENTERLINE LANE STRIPING
> 3"	CENTERLINE	STANDARD LANE CLOSURE[6]	STANDARD LANE CLOSURE[6]
≤ 3"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-9 AND TRAFFIC DRUMS[1]	W8-9 AND TRAFFIC DRUMS[1]
> 3" ≤ 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS[1]	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS[1]
> 6" ≤ 18"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS[1]	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS[2]
> 18" ≤ 24"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS[1]	A STABILIZED WEDGE, W8-17, EDGE LINE STRIPING AND TRAFFIC DRUMS[3]
> 24"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	PRECAST CONCRETE BARRIER[4] & EDGE LINES	PRECAST CONCRETE BARRIER[4] & EDGE LINES

INTERSTATE		
VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL
≤ 3"	CENTERLINE	W8-11 AND LANE STRIPING
≤ 3"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-9, EDGE LINE STRIPING, AND TRAFFIC DRUMS[2]
> 3" ≤ 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS[2]
> 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	PRECAST CONCRETE BARRIER & EDGE LINES

INTERSTATE AND NON-INTERSTATE		
FORESLOPE	HEIGHT	TRAFFIC CONTROL
1:1	> 2 FT	PRECAST CONCRETE BARRIER
2:1	≤ 5 FT	TRAFFIC DRUMS
2:1	> 5 FT	PRECAST CONCRETE BARRIER
Flatter than 2:1	N/A	TRAFFIC DRUMS

GENERAL NOTES:

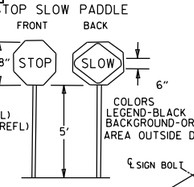
1. WHEN THE SHOULDER AREA IS USED AS PART OF THE TRAVELED LANE AND THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, THEN VERTICAL PANELS SHALL BE USED.
2. WHEN THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, A STABILIZED WEDGE SHALL BE USED.
3. PRECAST CONCRETE BARRIER WALL CAN BE USED IN LIEU OF A STABILIZED WEDGE, W8-17 SIGN, EDGE LINE STRIPING, AND TRAFFIC DRUMS, IF AND WHERE DIRECTED BY THE ENGINEER.
4. A STABILIZED WEDGE, W8-17 SIGN, EDGE LINE STRIPING, AND TRAFFIC DRUMS CAN BE USED IN LIEU OF PRECAST CONCRETE BARRIER WALL, IF AND WHERE DIRECTED BY THE ENGINEER.
5. W21-5, W21-5a, AND/OR W21-5b SIGNS SHALL BE USED WHERE THE ROADWAY IS UNOBSTRUCTED IF AND WHERE DIRECTED BY THE ENGINEER.
6. TIME LIMITATIONS MUST CONFORM TO SECTION 603 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION).

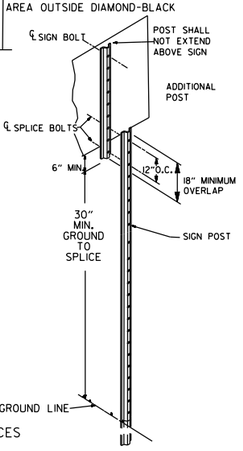


STABILIZED WEDGE

NOTE:
MATERIALS FOR THE STABILIZED WEDGE SHALL MEET THE REQUIREMENTS PROVIDED IN SECTION 603.02 OF THE STANDARD SPECIFICATIONS.

STOP SLOW PADDLE

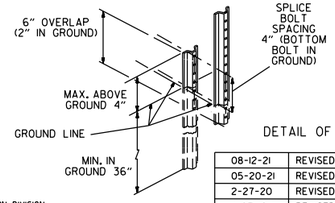




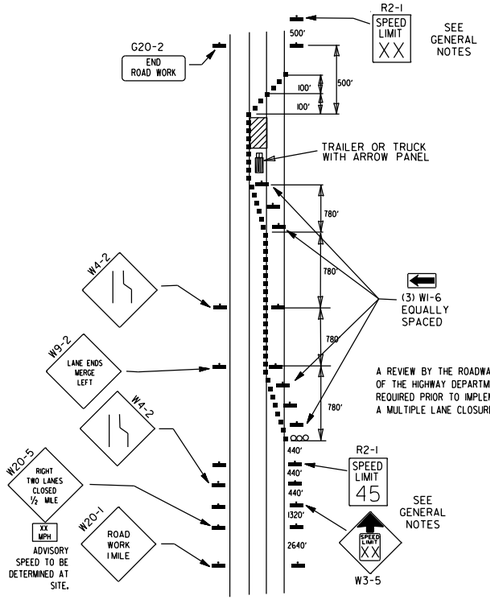
NOTES: USE SPLICES ONLY WHEN NECESSARY FOR INSTALLATION. TYPICAL INSTALLATION SHOULD HAVE NO SPLICES (SEE STD. DRAWING NO. SHS-21)

NORMAL INSTALLATIONS WILL REQUIRE 1/4" DIA. BOLTS TO MOUNT SIGNS TO POST AND 5/16" DIA. BOLTS TO ASSEMBLE THE VARIOUS POST SUPPORTS. EACH OF THESE BOLTS SHALL BE CARRIAGE BOLTS.

SIGN POSTS SHALL BE PAINTED GREEN; SIGNS SHALL NOT BE PAINTED, AND ALL SIGN POSTS SHALL BE PLUMB.



DETAIL OF SPLICES



A REVIEW BY THE ROADWAY DESIGN DIVISION OF THE HIGHWAY DEPARTMENT WILL BE REQUIRED PRIOR TO IMPLEMENTING A MULTIPLE LANE CLOSURE.

(D) TYPICAL APPLICATION - CLOSING MULTIPLE LANES OF A MULTILANE HIGHWAY.

DATE	REVISION	FILMED
08-12-21	REVISED TRAFFIC CONTROL DEVICES AND NOTES	
05-20-21	REVISED NOTE 10	
2-27-20	REVISED TRAFFIC CONTROL DEVICES DETAILS	
11-07-19	REVISED NOTE 9, ADDED NOTE 11	
7-25-19	REVISED TRAFFIC CONTROL DEVICES DETAILS	
9-2-15	REVISED NOTE 2 & REPLACED R2-5A WITH W3-5	
10-15-09	ADDED REFERENCE TO MASH	
11-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED NOTE	
10-1-98	ADDED NOTE	
4-03-97	ADDED (SP) TO W6-1& REVISED TRAFFIC CONTROL DEVICES NOTE	
10-18-96	ADDED R55-1	
10-12-95	MOVED UPPER SPLICE	
6-8-95	REVISED SPLICE DETAIL, TEXT	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

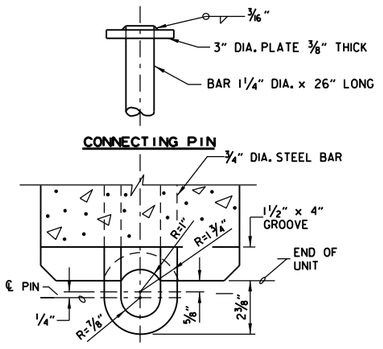
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-3

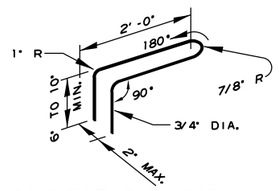
REINFORCING BAR TABLE PER BARRIER UNIT

MARK	LOCATION	BAR SIZE	(NO. BARS)	SKETCH
H-1	HORIZONTAL IN BARRIER TIED INSIDE V-1 BARS	#5	(6)	19'-3"
H-2	CENTERED ABOVE DRAIN SLOTS LONG. & TRANSVERSELY	#5	(6)	6'-6"
H-3	TIED ABOVE H-1 BARS TO SUPPORT H-2, TIED TO V-1	#4	(2)	1'-6"
S-1	OVER LIFT HOLES	#4	(2)	2'-5", LIFTING HOLE, 90°, 3 3/8" R
S-2	HORIZ. AROUND SLOTS BETWEEN V-1'S @ DRAIN SLOTS	#4	(2)	1 1/2" R, SLOTS, 7", 1'-6", 1" MIN. CLEAR TO BAR; 5'-1" BAR W/(4) 1 1/2" R BENDS & MIN. 1'-0" OVERLAP
V-1	VERTICAL IN BARRIER(3) EACH END & (2) AT EACH DRAIN SLOTS	#5	(16)	TOTAL LENGTH 4'-9"; 2 3/16" R; 12°; 1 1/2"; 9"; 2'-1 3/8"; 4 3/8"

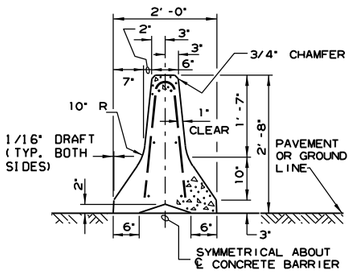


SECTION E-E

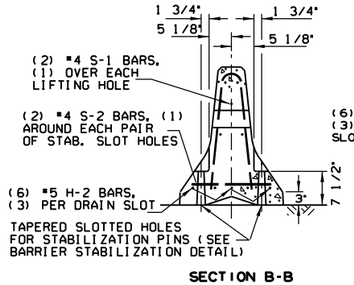
CONNECTION DETAILS



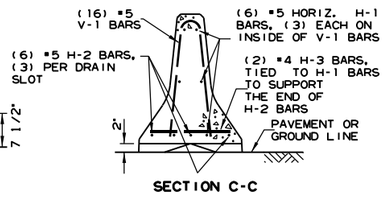
CONNECTION LOOP



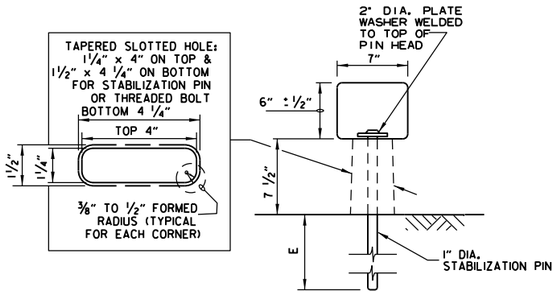
SECTION A-A



SECTION B-B



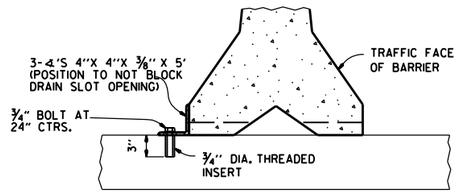
SECTION C-C



BARRIER STABILIZATION DETAIL

ROADWAY SECTION

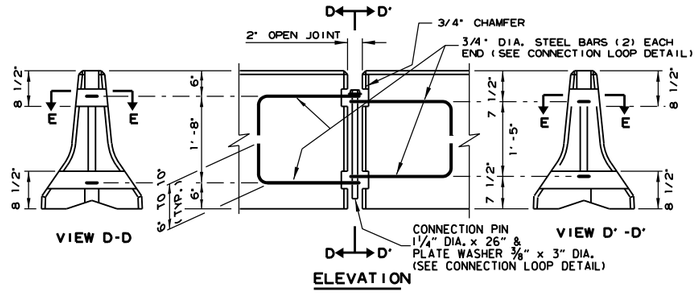
(E) 4" - CONCRETE PAVEMENT
8" - ASPHALT PAVEMENT
12" - SHOULDER AREAS



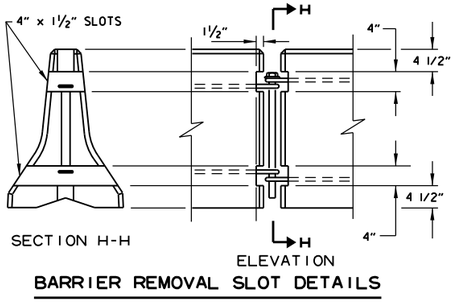
NOTE: " THREADED INSERTS SHALL BE CAST IN PLACE FOR ALL NEW BRIDGE DECKS AND DRILLED AND GROUTED FOR EXISTING BRIDGE DECKS. INSERTS SHALL HAVE A MINIMUM ULTIMATE LOAD CAPACITY OF 8000 LBS. IN TENSION. AFTER REMOVAL OF BARRIER, BOLTS, AND ANGLES, THE INSERTS SHALL BE FILLED WITH APPROVED NON-SHRINK EPOXY.

BARRIER STABILIZATION DETAIL

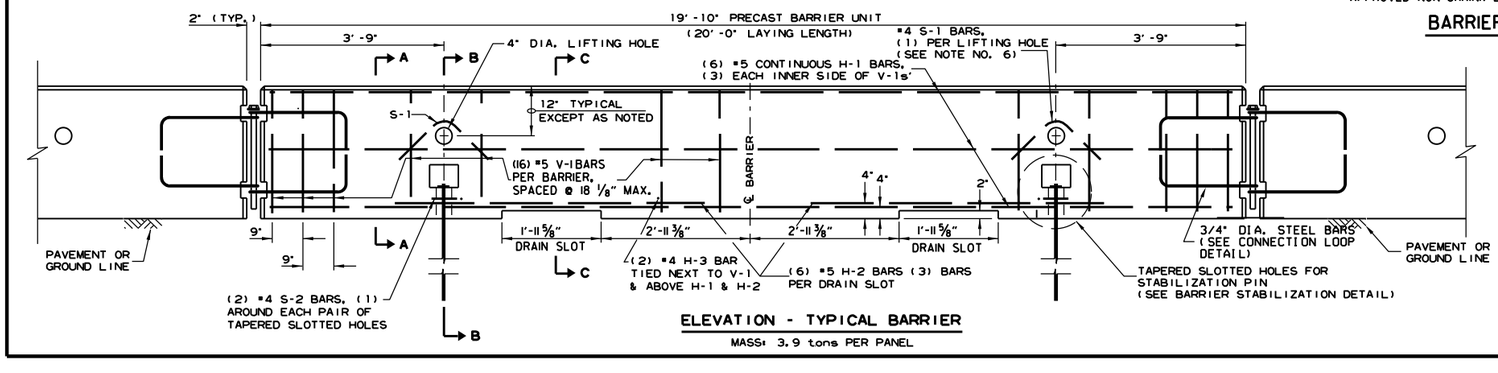
BRIDGE DECKS



ELEVATION



BARRIER REMOVAL SLOT DETAILS



ELEVATION - TYPICAL BARRIER

MASS: 3.9 tons PER PANEL

GENERAL NOTES

(1) THE CONTRACTOR SHALL FURNISH THE PRECAST CONCRETE BARRIER UNITS AND SHALL BE RESPONSIBLE FOR THE MANUFACTURE, SHIPMENT, STORAGE, PLACEMENT AND REMOVAL. AT THE COMPLETION OF THE PROJECT, THE PRECAST UNITS WILL REMAIN THE PROPERTY OF THE CONTRACTOR.

(2) MATERIALS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
CONCRETE: 2500 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
REINFORCING STEEL: AASHTO M 31 OR M 53, GRADE 60
STRUCTURAL STEEL: AASHTO-M270 GRADE 36 SHALL BE USED FOR THE CONNECTION PIN, CONNECTION LOOPS, AND STABILIZATION PINS. A ONE PIECE PIN WITH A 3" ROUNDED TOP MAY BE USED IN PLACE OF THE DETAILED CONNECTION PIN.
DELINEATORS: DELINEATORS SHALL BE MOUNTED AT 10' SPACING ON TOP OF PRECAST BARRIER.

IN APPLICATIONS WHERE BARRIER WALL IS WITHIN 6 FEET OF A TRAFFIC LANE, ADDITIONAL DELINEATORS SHALL BE PLACED ON THE BARRIER AT 10' SPACING APPROXIMATELY ONE (1) FOOT FROM THE TOP OF THE BARRIER. DELINEATORS SHALL BE ON THE ARDOT QUALIFIED PRODUCTS LIST FOR CONSTRUCTION CONCRETE BARRIER MARKERS.
DELINEATOR COLOR SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
PAYMENT FOR DELINEATORS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID PER LIN. FT. FOR "FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER". THE CONTRACTOR SHALL CERTIFY TO THE ENGINEER THAT THE MATERIAL AND THE DESIGN USED IN THE PRECAST BARRIER UNITS MEETS THE REQUIREMENTS AS SHOWN ON THIS STANDARD DRAWING.

(3) OTHER PRECAST CONCRETE BARRIERS THAT HAVE BEEN CRASH TESTED AND APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION TO MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) WILL BE ACCEPTED IN LIEU OF THE BARRIER SHOWN. DRAIN SLOTS SHALL BE PROVIDED AS NEEDED OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH A CERTIFICATION OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) COMPLIANCE FOR ANY OTHER TYPES OF PRECAST BARRIER TO BE USED. THE CERTIFICATION SHALL STATE THAT THE PRECAST CONCRETE BARRIER MEETS THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH). MIXING OF SHAPES WILL NOT BE ALLOWED IN A CONTINUOUS LINE OF UNITS.

(4) DOWEL HOLES IN PAVEMENT OR BRIDGE SLABS THAT ARE TO REMAIN IN PLACE SHALL BE FILLED. HOLES IN CONCRETE PAVEMENT AND BRIDGE SLABS SHALL BE FILLED WITH AN APPROVED NON-SHRINK EPOXY GROUT. HOLES IN ASPHALT PAVEMENT SHALL BE FILLED WITH AN APPROVED ASPHALT JOINT FILLER. PAYMENT FOR DRILLING AND FILLING HOLES TO BE INCLUDED IN THE PRICE FOR VARIOUS BARRIER ITEMS.

(5) ATTACH UNITS TO ROADWAY SURFACE WITH STABILIZATION PINS AND TO DECK SLABS USING BOLTS WHEN REQUIRED.

(6) A 4" WHITE PVC SLEEVE MAY BE USED TO FORM THE LIFTING HOLE AND IF USED THE SLEEVE IS TO BE LEFT IN PLACE.

DATE	REVISION	FILMED
11-07-19	REVISED NOTE 3	
2-27-14	REVISED BARRIER STABILIZATION DETAIL	
10-15-09	ADDED REFERENCE TO WASH	
8-5-09	REV. NOTE 3 CONCERNING DRAIN SLOTS	
11-29-07	REVISED NOTE 3	
5-25-06	DELETED GENERAL NOTE 7	
11-18-04	REVISED BARRIER STABILIZATION DETAIL BRIDGE DECKS	
4-10-03	REVISED GENERAL NOTE 2	
8-22-02	ISSUED NEW DRAWING	

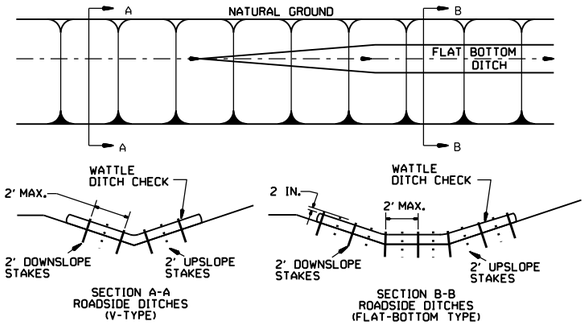
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION - TEMPORARY PRECAST BARRIER

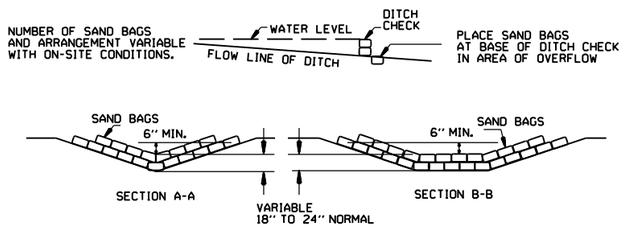
STANDARD DRAWING TC-4

GENERAL NOTES

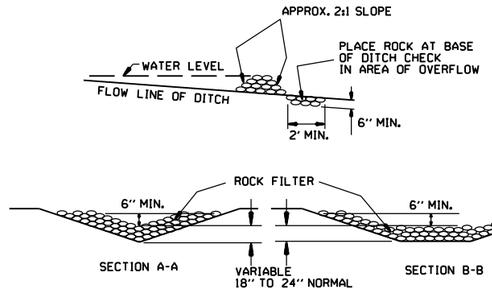
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



SAND BAG DITCH CHECK (E-5)

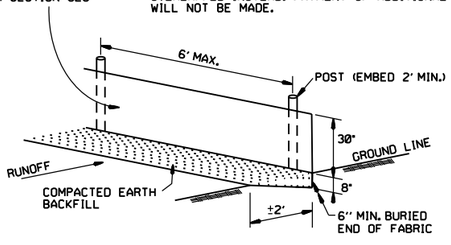


ROCK DITCH CHECK (E-6)

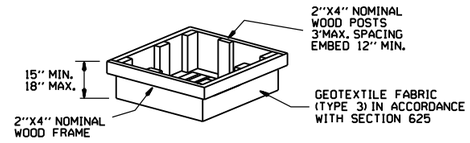
GENERAL NOTES

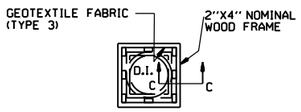
GEOTEXTILE FABRIC (TYPE 4) IN ACCORDANCE WITH SECTION 625

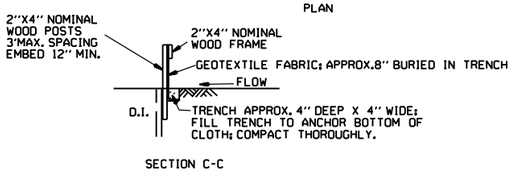
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



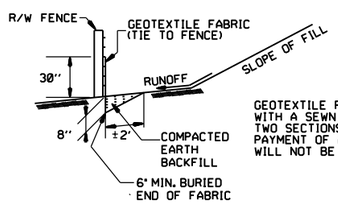
SILT FENCE (E-11)





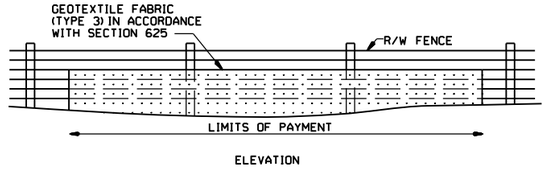


DROP INLET SILT FENCE (E-7)



GENERAL NOTES

GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST, OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



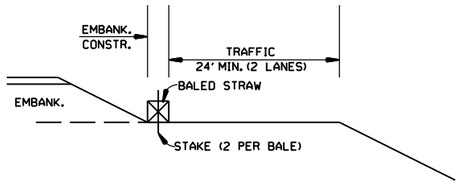
SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES

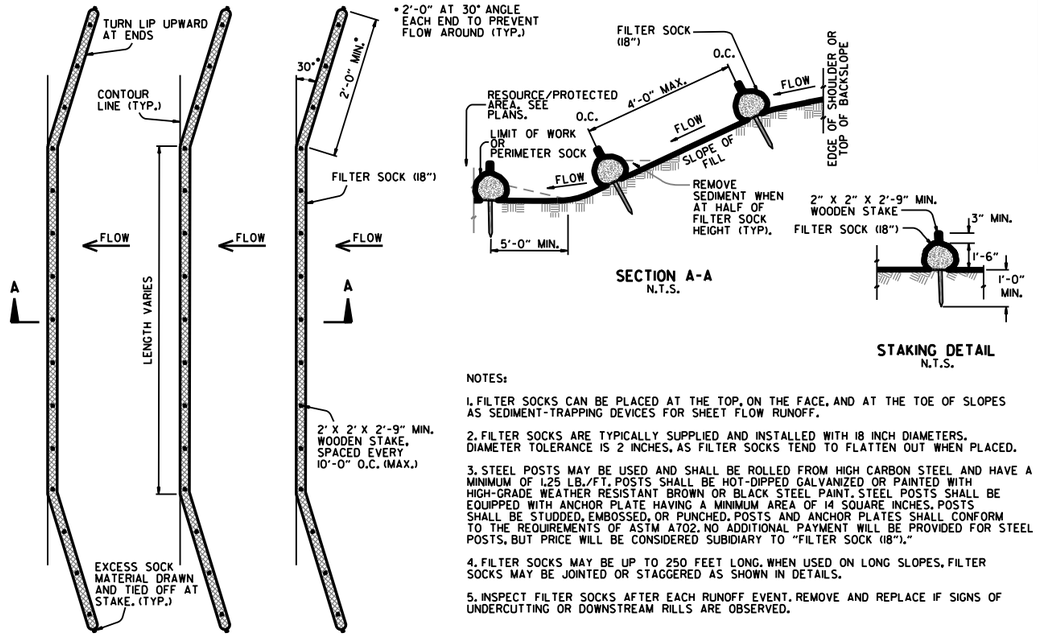
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

2. NO GAPS SHALL BE LEFT BETWEEN BALES.

3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED BY THE BALE IN PLACE AS AUTHORIZED BY THE ENGINEER AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER BALE FOR BALED STRAW DITCH CHECKS.



BALED STRAW FILTER BARRIER (E-2)



NOTES:

1. FILTER SOCKS CAN BE PLACED AT THE TOP, ON THE FACE, AND AT THE TOE OF SLOPES AS SEDIMENT-TRAPPING DEVICES FOR SHEET FLOW RUNOFF.

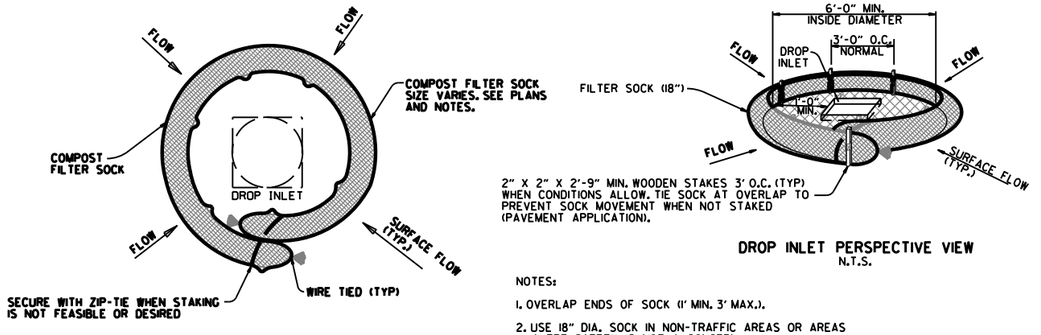
2. FILTER SOCKS ARE TYPICALLY SUPPLIED AND INSTALLED WITH 18 INCH DIAMETERS. DIAMETER TOLERANCE IS 2 INCHES, AS FILTER SOCKS TEND TO FLATTEN OUT WHEN PLACED.

3. STEEL POSTS MAY BE USED AND SHALL BE ROLLED FROM HIGH CARBON STEEL AND HAVE A MINIMUM OF 1.25 LB./FT. POSTS SHALL BE HOT-DIPPED GALVANIZED OR PAINTED WITH HIGH-GRADE WEATHER RESISTANT BROWN OR BLACK STEEL PAINT. STEEL POSTS SHALL BE EQUIPPED WITH ANCHOR PLATE HAVING A MINIMUM AREA OF 14 SQUARE INCHES. POSTS SHALL BE STUDDED, EMBOSSED, OR PUNCHED. POSTS AND ANCHOR PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A702. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR STEEL POSTS, BUT PRICE WILL BE CONSIDERED SUBIDIARY TO "FILTER SOCK (18")."

4. FILTER SOCKS MAY BE UP TO 250 FEET LONG. WHEN USED ON LONG SLOPES, FILTER SOCKS MAY BE JOINTED OR STAGGERED AS SHOWN IN DETAILS.

5. INSPECT FILTER SOCKS AFTER EACH RUNOFF EVENT. REMOVE AND REPLACE IF SIGNS OF UNDERCUTTING OR DOWNSTREAM RILLS ARE OBSERVED.

FILTER SOCK ALONG SLOPE (E-3)



NOTES:

1. OVERLAP ENDS OF SOCK (1' MIN. 3' MAX.).

2. USE 18" DIA. SOCK IN NON-TRAFFIC AREAS OR AREAS WHERE SAFETY IS NOT A CONCERN.

COMPOST FILTER SOCK DROP INLET PROTECTION (E-13)

DATE	REVISION	FILMED
11-16-17	ADDED FILTER SOCK E-3 AND E-13	
12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK	
11-18-98	ADDED NOTES	
07-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)	
07-20-95	REVISED SILT FENCE E-4 AND E-11	7-20-95
07-15-94	REV. E-4 & E-11 MIN. 13" BURIED END OF FABRIC	
06-02-94	REVISED E-1,4,7 & 11; DELETED E-2 & 3	6-2-94
04-01-93	REDRAWN	
10-01-92	REDRAWN	
08-02-76	ISSUED R.D.M.	298-7-28-76

ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

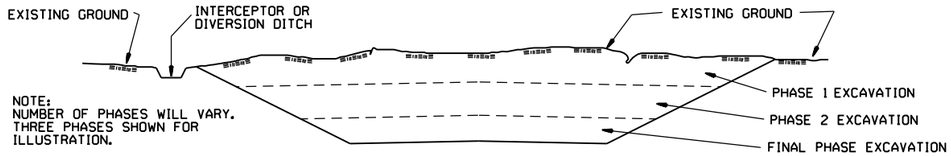
STANDARD DRAWING TEC-1

CLEARING AND GRUBBING

CONSTRUCTION SEQUENCE

1. PLACE PERIMETER CONTROLS (I.E. SILT FENCES , DIVERSION DITCHES, SEDIMENT BASINS, ETC.)
2. PERFORM CLEARING AND GRUBBING OPERATION.

EXCAVATION



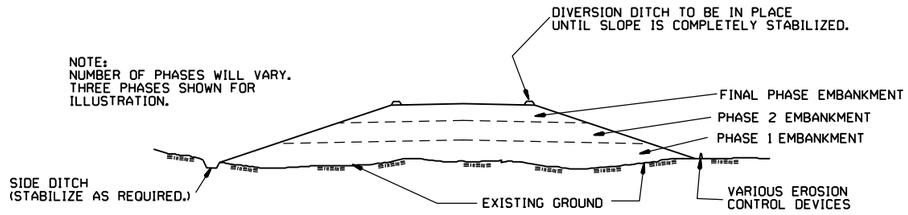
GENERAL NOTE

ALL CUT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE EXCAVATED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE

1. EXCAVATE AND STABILIZE INTERCEPTOR AND/OR DIVERSION DITCHES.
2. PERFORM PHASE 1 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
3. PERFORM PHASE 2 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
4. PERFORM FINAL PHASE OF EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING. STABILIZE DITCHES. CONSTRUCT DITCH CHECKS, DIVERSION DITCHES, SEDIMENT BASINS, OR OTHER EROSION CONTROL DEVICES AS REQUIRED.

EMBANKMENT



GENERAL NOTE

ALL EMBANKMENT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE CONSTRUCTED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE

1. CONSTRUCT DIVERSION DITCHES, DITCH CHECKS, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS SPECIFIED.
2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
3. PLACE PHASE 2 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
4. PLACE FINAL PHASE OF EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PLACE DIVERSION DITCHES AND SLOPE DRAINS AND MAINTAIN UNTIL ENTIRE SLOPE IS STABILIZED.

11-03-94	CORRECTED SPELLING	
6-2-94	Drawn & Issued	6-2-94
DATE	REVISION	FILMED

ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-3