"A FULLY CONTROLLED ACCESS FACILITY"

ARKANSAS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLANS FOR STATE HIGHWAY

ALMA - BELLA VISTA BYPASS (SIGNING) (S)

CRAWFORD, WASHINGTON, & BENTON COUNTIES

ROUTE 49 SECTIONS 27, 28, & 29

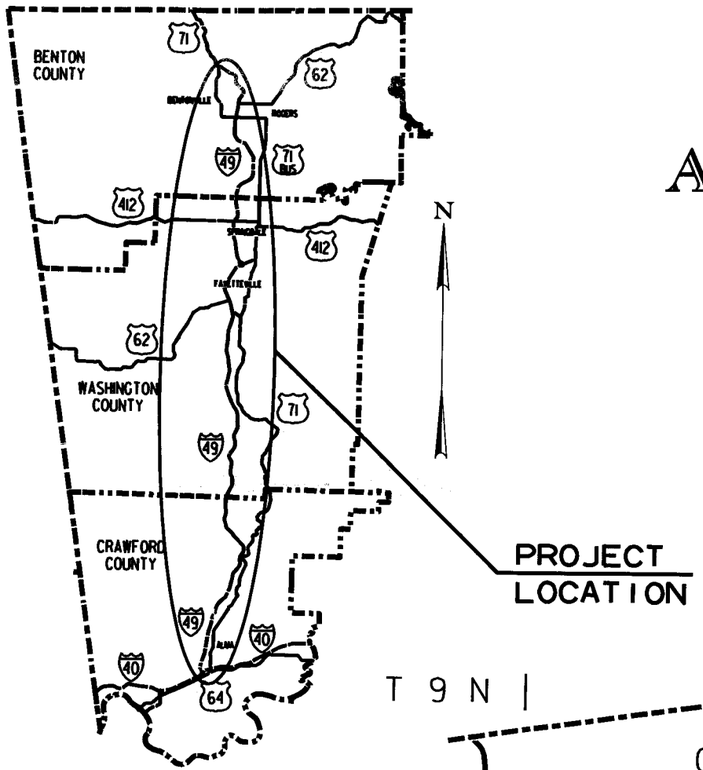
FEDERAL AID PROJ. NHPP-49-1(14)59

JOB 012215

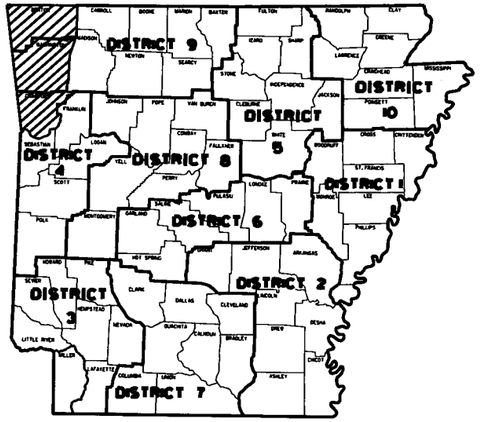
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED.AID DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.	012215		1	94

(2) ALMA - BELLA VISTA BYPASS (SIGNING)(S)

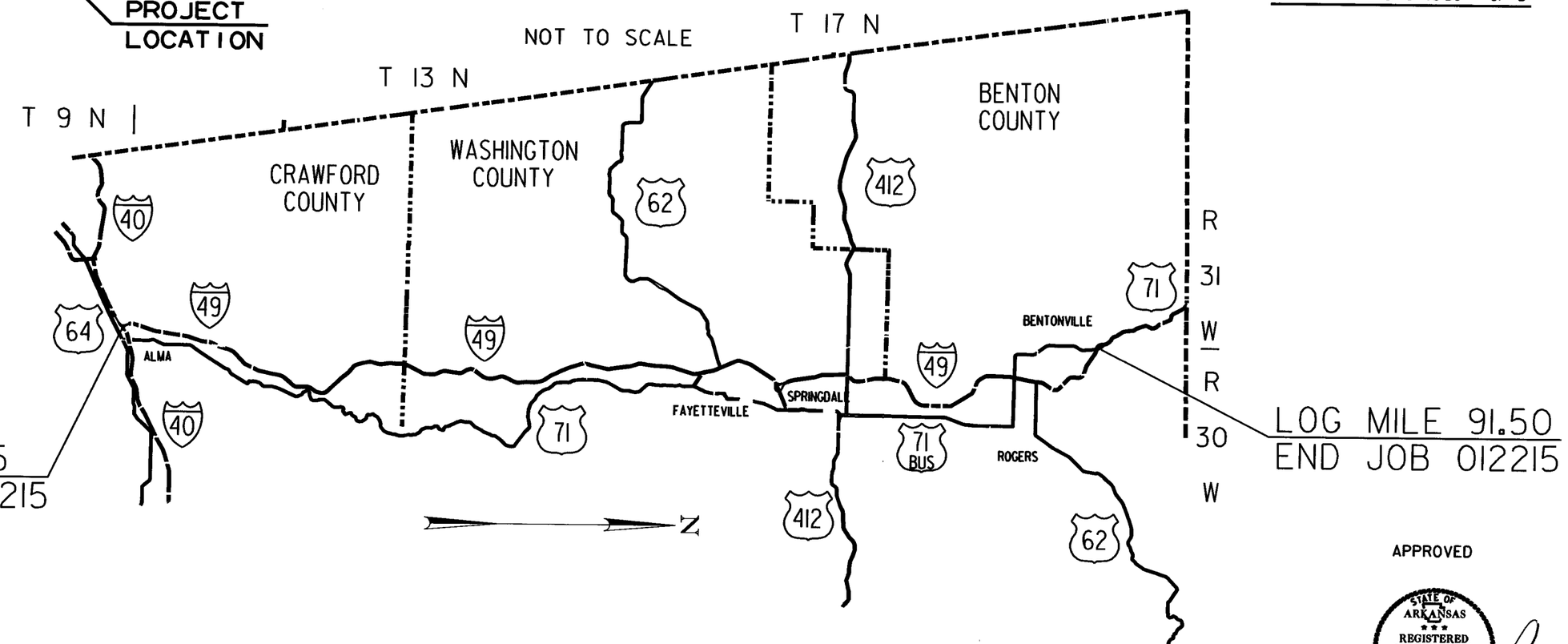


VICINITY MAP



ARK. HWY. DIST. NOS. 4 & 9

NOT TO SCALE



APPROVED

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7836
M. E. BANKS

9-19-18

DEPUTY DIRECTOR
AND CHIEF ENGINEER

MID-POINT OF PROJECT
LATITUDE 35°54' 43.27"N
LONGITUDE 94° 11' 43.66"W

GROSS	LENGTH	OF	PROJECT	378840.00	FEET	OR	71.750	MILES
NET	"	"	ROADWAY	378840.00	"	"	71.750	"
NET	"	"	BRIDGES	0.00	"	"	0.000	"
NET	"	"	PROJECT	378840.00	"	"	71.750	"

R012215REV.DGN 9/11/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		002215	2	194

② INDEX OF SHEETS & STD DRAWINGS

INDEX OF SHEETS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
9-12-17
JOSEPH A. SARTINI

ROADWAY STANDARD DRAWINGS

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GR-8A	GUARD RAIL DETAILS	11-16-17
GR-9	GUARD RAIL DETAILS	04-17-08
GR-9A	GUARD RAIL DETAILS	04-17-08
GR-10	GUARD RAIL DETAILS	11-16-17
GR-11	GUARD RAIL DETAILS	11-16-17
GR-12	GUARD RAIL DETAILS	11-16-17
GR-13	CONCRETE BARRIER WALL (PIER PROTECTION TYPE A)	11-16-17
GRT-1	GUARD RAIL DETAILS	11-16-17
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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
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TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	09-02-15
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	09-02-15
TC-4	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION-TEMPORARY PRECAST BARRIER	02-27-14
TC-5	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION-TEMPORARY PRECAST BARRIER	10-15-09
TEC-1	TEMPORARY EROSION CONTROL DEVICES	11-16-17
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10-05-18				6	ARK.			
				JOB NO.		012215	3	194
				②	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 - TRAINING PROGRAM - JOB 012215
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
108-1_____	LIQUIDATED DAMAGES
108-2_____	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
110-1_____	PROTECTION OF WATER QUALITY AND WETLANDS
303-1_____	AGGREGATE BASE COURSE
400-4_____	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
400-5_____	PERCENT AIR VOIDS FOR ACHM MIX DESIGNS
400-6_____	LIQUID ANTI-STRIP ADDITIVE
410-1_____	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
604-1_____	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
617-1_____	GUARDRAIL TERMINAL (TYPE 2)
620-1_____	MULCH COVER
JOB 012215__	ANTENNA SUPPORT STRUCTURE ASSEMBLY
JOB 012215__	ASSESSMENT OF WORKING DAYS - MAINTENANCE OF TRAFFIC
JOB 012215__	BATTERY BACKUP SYSTEM
JOB 012215__	BIDDING REQUIREMENTS AND CONDITIONS
JOB 012215__	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB 012215__	CARGO PREFERENCE ACT REQUIREMENTS
JOB 012215__	CHANNEL POST SIGN SUPPORT
JOB 012215__	CONCRETE PULL BOX
JOB 012215__	CONSTRUCTION PROJECT INFORMATION SIGN
JOB 012215__	COORDINATION OF WORK
JOB 012215__	DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
JOB 012215__	DRILLED SHAFT FOUNDATIONS
JOB 012215__	ELECTRICAL CONDUCTORS-IN-CONDUIT
JOB 012215__	GENERAL REQUIREMENTS FOR SIGNS
JOB 012215__	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB 012215__	ITS EQUIPMENT INSTALLATION
JOB 012215__	MAINTENANCE BUILDING
JOB 012215__	MAINTENANCE OF TRAFFIC
JOB 012215__	MANDATORY ELECTRONIC CONTRACT
JOB 012215__	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 012215__	MODIFICATION OF EXISTING BARRIER WALL
JOB 012215__	MODIFICATION OF EXISTING SIGN FOUNDATION
JOB 012215__	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORT
JOB 012215__	OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY
JOB 012215__	PARTNERING REQUIREMENTS
JOB 012215__	PHOTOVOLTAIC SYSTEM
JOB 012215__	REMOVAL AND DISPOSAL OF WIRE ROPE SAFETY FENCE
JOB 012215__	SERVICE POINT ASSEMBLY
JOB 012215__	SETTLEMENT AGREEMENTS
JOB 012215__	SITE USE (A+C METHOD) - CALENDAR DAY CONTRACT
JOB 012215__	SPECIAL SAFETY REQUIREMENTS FOR OVERHEAD SIGNS
JOB 012215__	STEEL SIGN STRUCTURES
JOB 012215__	STORM WATER POLLUTION PREVENTION PLAN
JOB 012215__	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 012215__	TILT TOWER
JOB 012215__	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB 012215__	UTILITY ADJUSTMENTS
JOB 012215__	VALUE ENGINEERING
JOB 012215__	WARM MIX ASPHALT
JOB 012215__	WIRE ROPE SAFETY FENCE END TERMINAL

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
10-5-18
JOSEPH A. SARTINI

GENERAL NOTES

1. GRADE LINE DENOTES FINISHED GRADE WHERE SHOWN ON PLANS.
2. ALL PIPE LINES, POWER, TELEPHONE, AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
3. 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.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING U. S. MAILBOXES WITHIN THE PROJECT LIMITS IN SUCH A MANNER THAT THE PUBLIC MAY RECEIVE CONTINUED MAIL SERVICE. PAYMENT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS BID ITEMS.
5. ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
6. 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.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FENCE TO CONTROL LIVESTOCK IN AREAS WHERE PASTURES ARE SEVERED. WIRE FENCE MAY BE CONSTRUCTED INITIALLY, OR IN LIEU THEREOF, THE CONTRACTOR AT HIS OWN EXPENSE, MAY ELECT TO PROVIDE TEMPORARY FENCING SUITABLE TO CONTAIN LIVESTOCK.
8. ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO. 210 - UNCLASSIFIED EXCAVATION.
9. 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.

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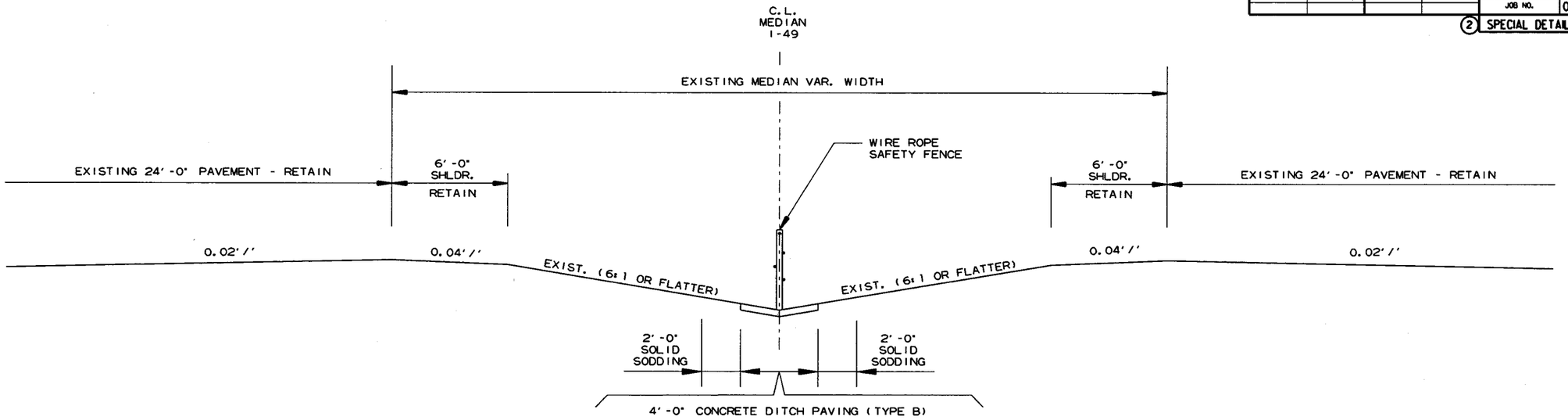
				6	ARK.			
				JOB NO.		012215	4	194

(2) SPECIAL DETAILS

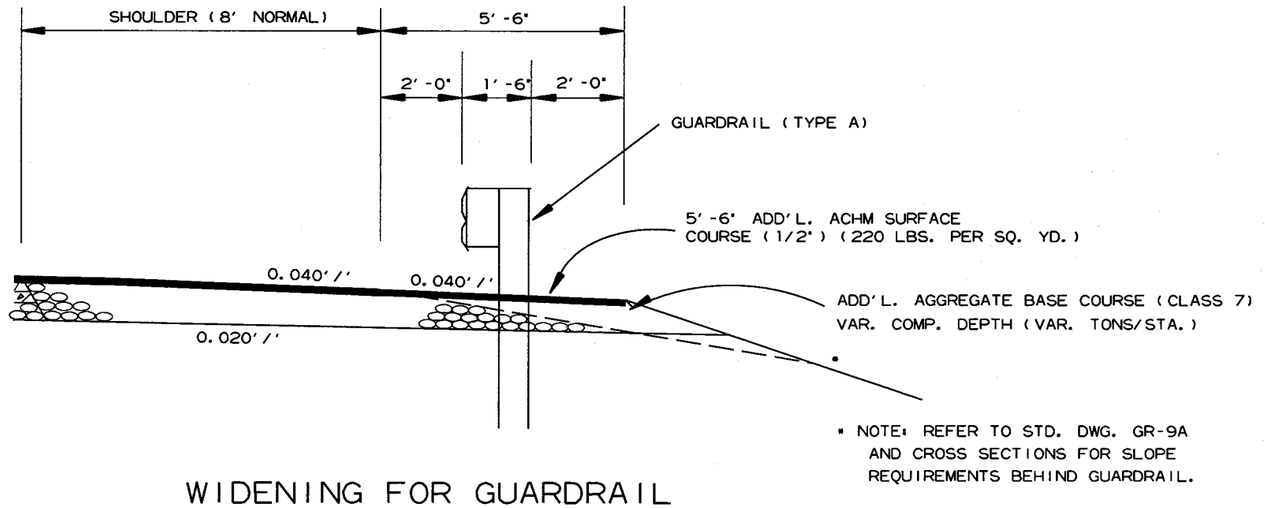
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
9-18-18



EXISTING TYPICAL SECTION
WRSF IN BOTTOM OF DITCH

6.0" Radius, 1.3" Border, Black on Orange;
"Job XXXXXX" C 2K; "Start Date Mo Year" C 2K;
"Est Completion Mo Year" C 2K; "IDRIVE ARKANSAS.COM" Arial;

CONSTRUCTION PROJECT INFORMATION SIGN



WIDENING FOR GUARDRAIL

8/31/2018

R012215.DGN

SPECIAL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
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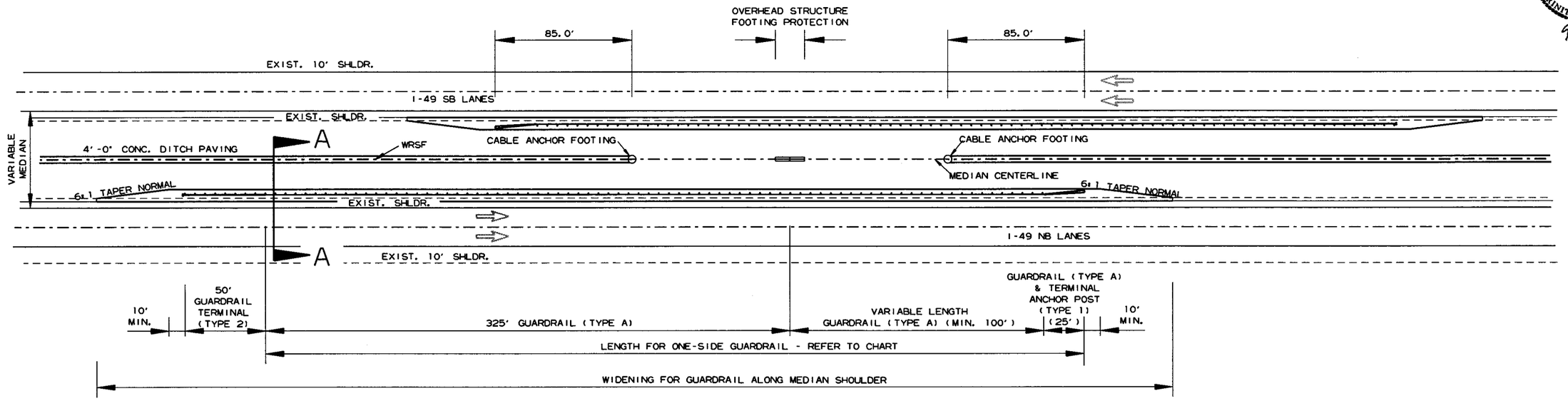
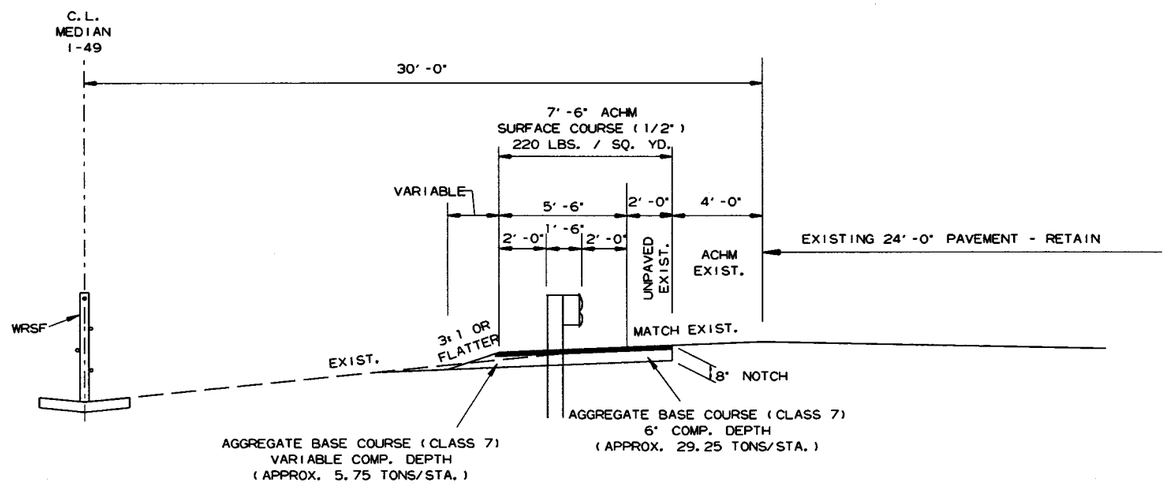
(2) SPECIAL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
9-18-18



DETAIL AT OVERHEAD STRUCTURE

DIMENSIONS ARE TYPICAL BOTH DIRECTIONS



SECTION A-A

8/31/2018

R012215.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
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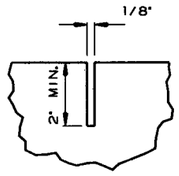
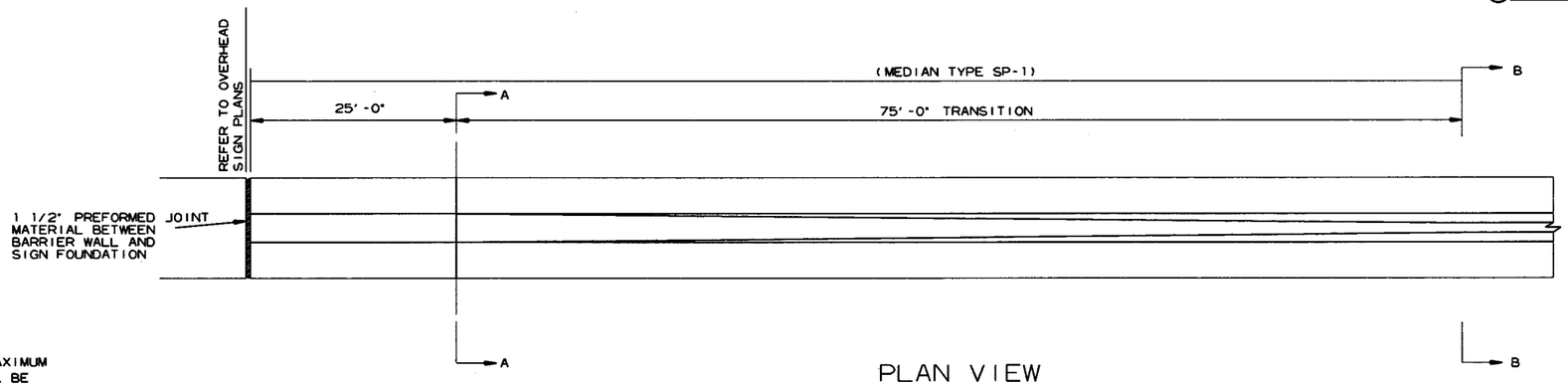
(2) SPECIAL DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11435
TRINITY D. SMITH
9-18-18



CONTRACTION JOINT DETAIL

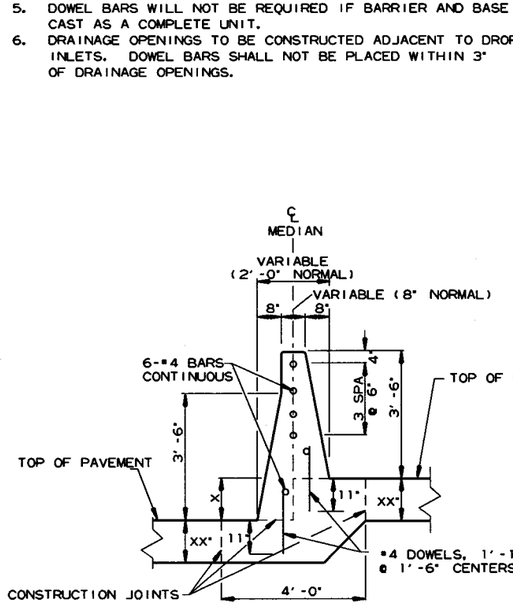


PLAN VIEW
CONCRETE BARRIER WALL (MEDIAN TYPE B AND MEDIAN TYPE C) TRANSITION

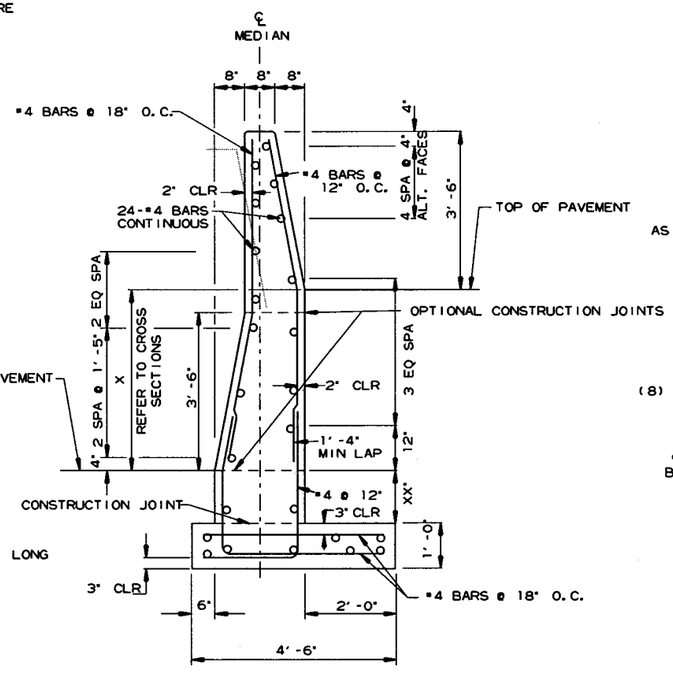
NOTES FOR MEDIAN BARRIER:
1. ALL EXPOSED EDGES SHALL HAVE 3/4" CHAMFERS.
2. CONTRACTION JOINTS SHALL BE CONSTRUCTED AT 15'-0" MAXIMUM SPACING IN TOP AND SIDES OF MEDIAN BARRIER AND SHALL BE FORMED IN FRESH CONCRETE.
3. CONTRACTION JOINTS ARE NOT PERMITTED AT THE DOWEL BAR LOCATIONS.
4. ALL REINFORCING BARS SHALL HAVE 2" MINIMUM COVER.
5. DOWEL BARS WILL NOT BE REQUIRED IF BARRIER AND BASE ARE CAST AS A COMPLETE UNIT.
6. DRAINAGE OPENINGS TO BE CONSTRUCTED ADJACENT TO DROP INLETS. DOWEL BARS SHALL NOT BE PLACED WITHIN 3" OF DRAINAGE OPENINGS.

NOTE: REFER TO OVERHEAD SIGN PLANS FOR MEDIAN FOUNDATION

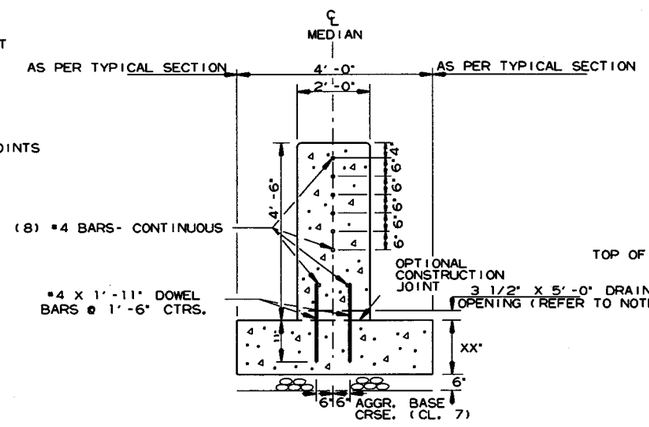
SIGN STRUCTURE	LOG MILE
OH-049-72-16	62.68
OH-049-72-17	63.56



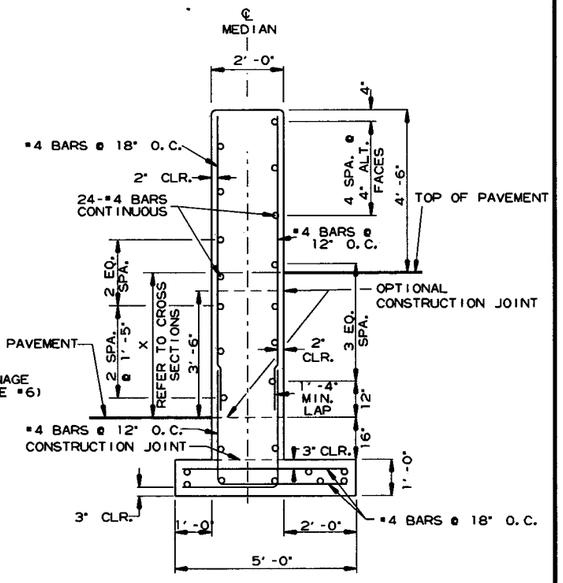
CONCRETE BARRIER WALL
(MEDIAN TYPE B)
X = 0'-0" TO 1'-0" MAX
SECTION B-B



CONCRETE BARRIER WALL
(MEDIAN TYPE C)
X = 1'-0" TO 5'-0" MAX
SECTION B-B



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



CONCRETE BARRIER WALL
(MEDIAN TYPE SP-1)
X = 1'-0" TO 5'-0" MAX
SECTION A-A

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

8/31/2018

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SPECIAL DETAILS

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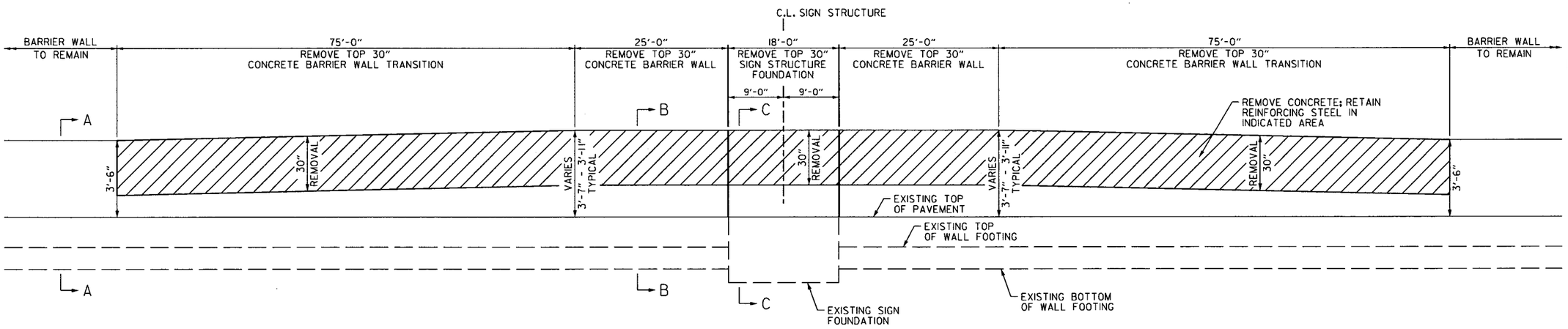
(2) SPECIAL DETAILS

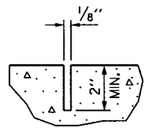
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
9-18-18



MEDIAN BARRIER WALL AND SIGN STRUCTURE FOUNDATION MODIFICATION - REMOVAL

GENERAL NOTES FOR CONCRETE BARRIER WALL

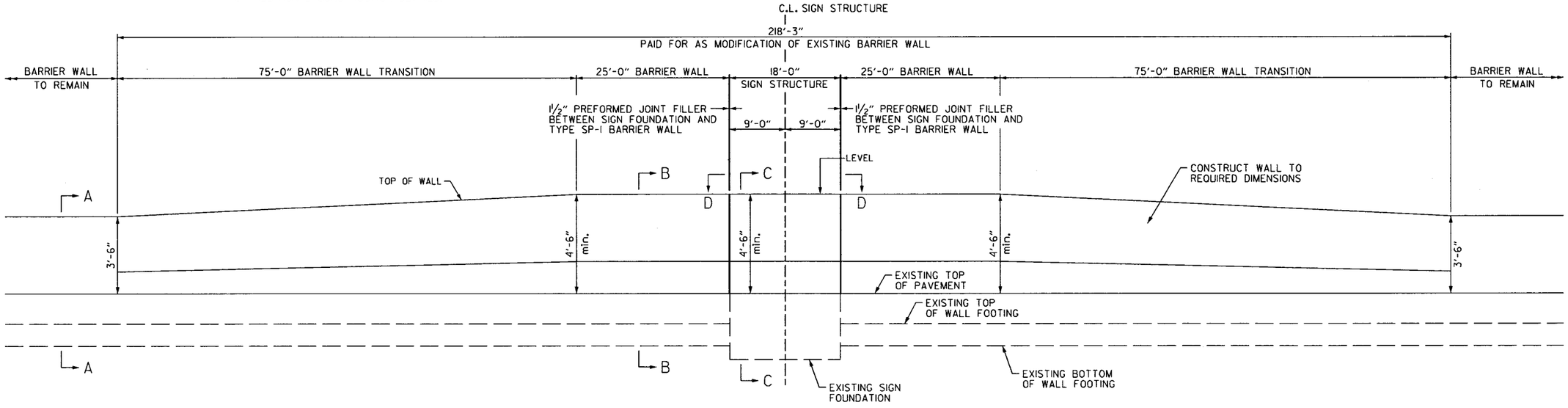
1. ALL BARRIER WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 631 OF THE STANDARD SPECIFICATIONS, 2014 EDITION.
2. CONTRACTION JOINTS SPACING SHALL MATCH EXISTING (30'-0" MAX.)
3. ALL CONTRACTION JOINTS TO BE FORMED IN FRESH CONCRETE ON TOP AND IN SIDES OF BARRIER WALL.
4. ALL EXPOSED EDGES OF CONCRETE BARRIER WALL SHALL HAVE A 3/4" CHAMFER.
5. MAINTAIN 2" CLEARANCE ON ALL REINFORCEMENT.
6. EXPANSION JOINTS SHALL BE FORMED USING 1" PREFORMED JOINT FILLER. CONTINUOUS REINFORCEMENT SHALL BE CUT 2" CLEAR OF EXPANSION JOINTS.
7. TRANSITION SECTION SHALL BE PAID FOR AS MEDIAN TYPE C.
8. SEE SPECIAL PROVISION JOB 012215 "MODIFICATION OF EXISTING BARRIER WALL" FOR ADDITIONAL CONSTRUCTION DETAILS.



CONTRACTION JOINT DETAIL

SIGN STRUCTURE	LM	SPAN
OH-049-04-18	75.42	71'
OH-049-04-19	77.60	79.5'
OH-049-04-28	83.22	72'

FOR ADDITIONAL DETAILS OF SIGN FOUNDATION, SEE DETAILS OF 70' TO 85' STEEL OVERHEAD SIGN STRUCTURE.



MEDIAN BARRIER WALL AND SIGN STRUCTURE FOUNDATION MODIFICATION - REPLACEMENT

9/14/2018

R012215.DGN

SPECIAL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
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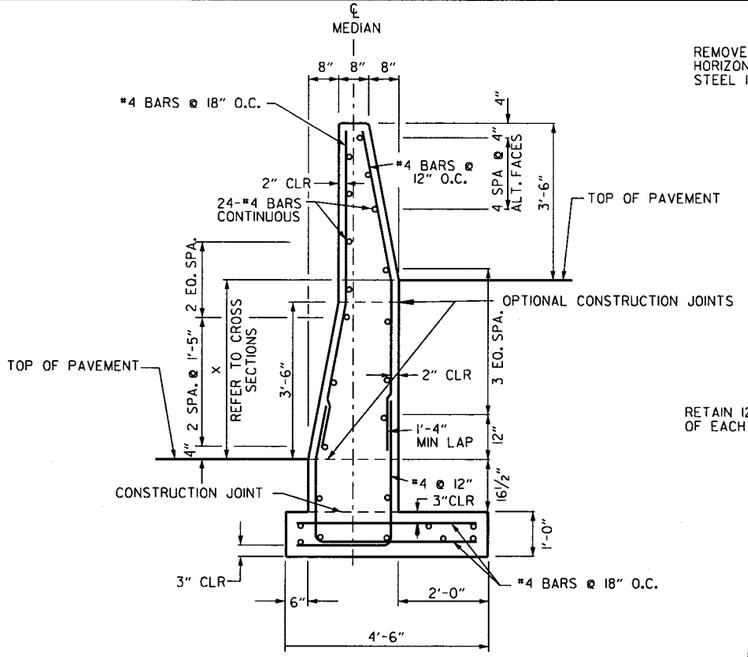
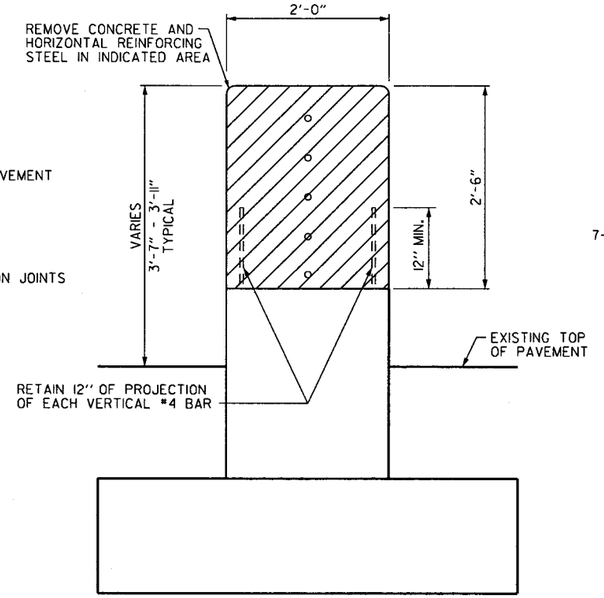
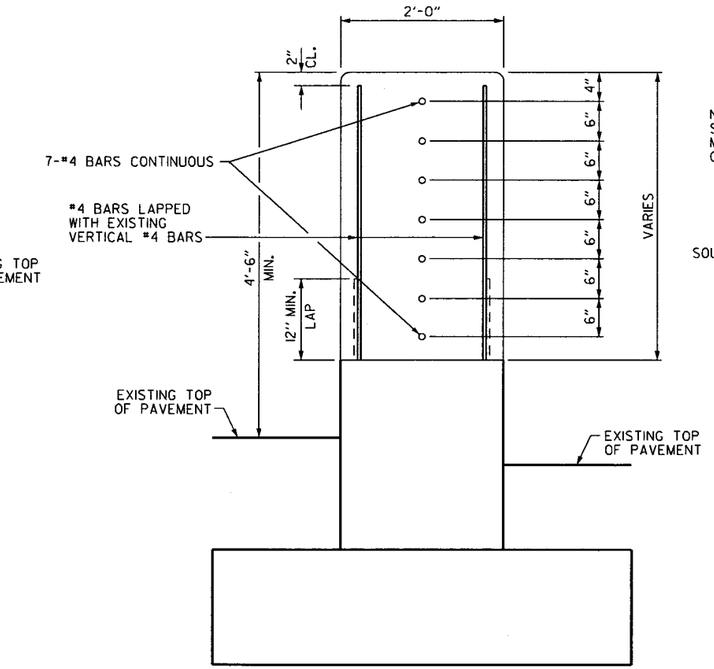
(2) SPECIAL DETAILS



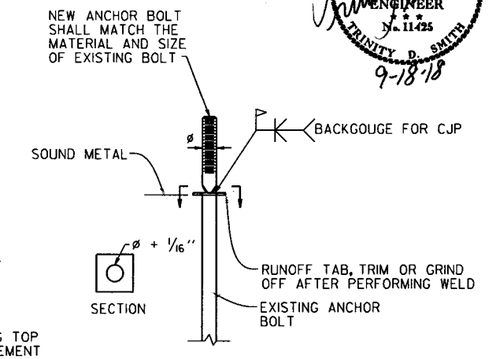
EXISTING CONCRETE BARRIER WALL
(MEDIAN TYPE C)
(SECTION A-A)



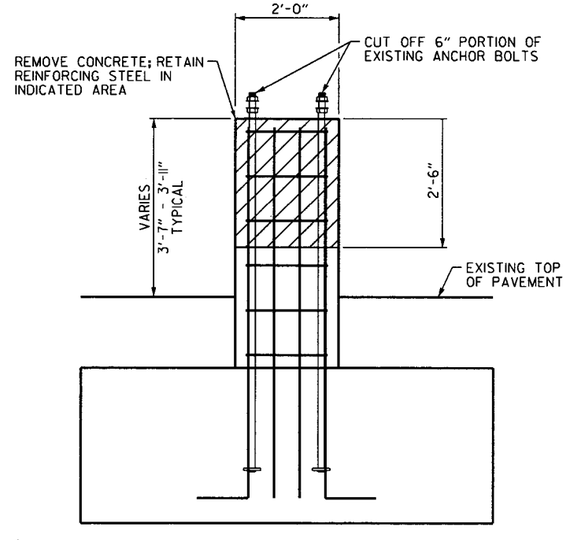
EXISTING CONCRETE BARRIER WALL
(MEDIAN TYPE SP-I) - REMOVAL
(SECTION B-B)



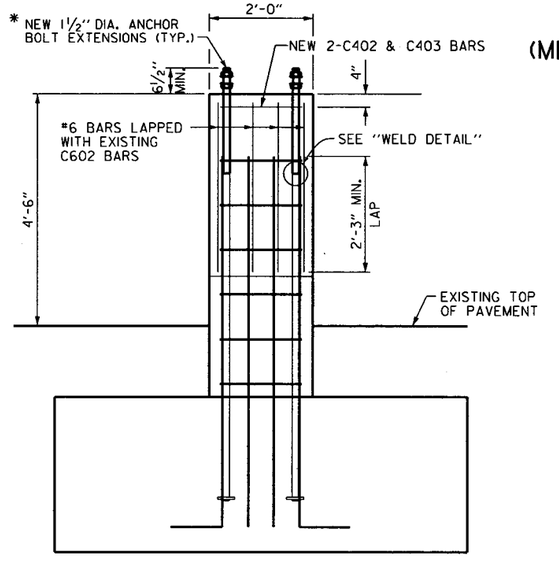
CONCRETE BARRIER WALL
(MEDIAN TYPE SPI) - REPLACEMENT
(SECTION B-B)



WELD DETAIL



SIGN STRUCTURE FOUNDATION - REMOVAL
(SECTION C-C)



SIGN STRUCTURE FOUNDATION - REPLACEMENT
(SECTION C-C)

* NEW ANCHOR BOLT EXTENSIONS SHALL BE WELDED TO EXISTING ANCHOR BOLTS WITH A FULL PENETRATION BUTT WELD PERFORMED BY A CERIFIED WELDER TO PROVIDE 6½" MINIMUM OF PROTRUSION FROM THE TOP OF THE MODIFIED MEDIAN BARRIER FOUNDATION.

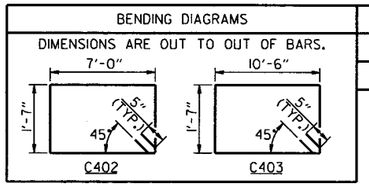
MEDIAN FOUNDATION GENERAL NOTES:

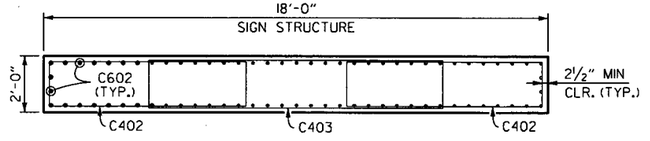
FOUNDATION MATERIALS AND STRENGTHS:
CLASS S CONCRETE — F'C = 3,500 PSI
REINFORCING STEEL (GRADE 60, AASHTO M 31 OR M 322, TYPE A) — FY = 60,000 PSI

NEW ANCHOR BOLT EXTENSIONS SHALL COMPLY WITH AASHTO M 314, GRADE 55 INCLUDING SUPPLEMENTARY REQUIREMENT S1, AND GALVANIZED ACCORDING TO SUBSECTION 807.07. DAMAGED GALVANIZED COATINGS TO THE ANCHOR BOLTS SHALL BE REPAIRED AS SPECIFIED IN SUBSECTION 807.88 OF THE STANDARD SPECIFICATIONS.

SEE SPECIAL PROVISION JOB 012215 "MODIFICATION OF EXISTING BARRIER WALL" FOR ADDITIONAL CONSTRUCTION DETAILS.

BENDING DIAGRAMS	MARK	LENGTH	P.D.
DIMENSIONS ARE OUT TO OUT OF BARS.	C402	17'-8"	3"
	C403	23'-8"	3"





SECTION D-D

MEDIAN BARRIER WALL AND SIGN STRUCTURE MODIFICATION - SECTIONS

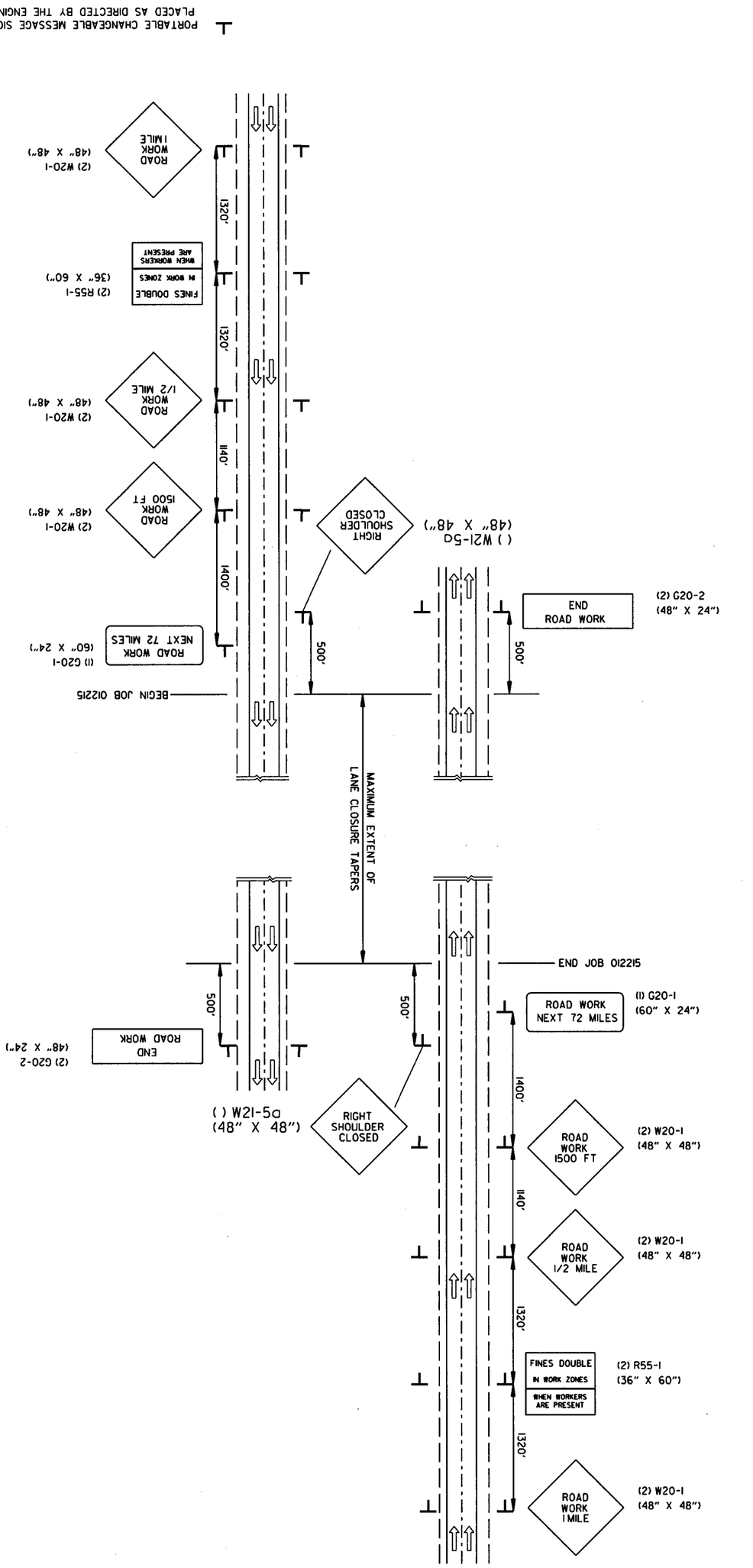
9/14/2018

R012215.DGN

SPECIAL DETAILS

R012215.DGN 9/13/2018

ADVANCE WARNING SIGNS AT JOB ENDS



PORTABLE CHANGEABLE MESSAGE SIGN
PLACED AS DIRECTED BY THE ENGINEER

MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.ROD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		9	194

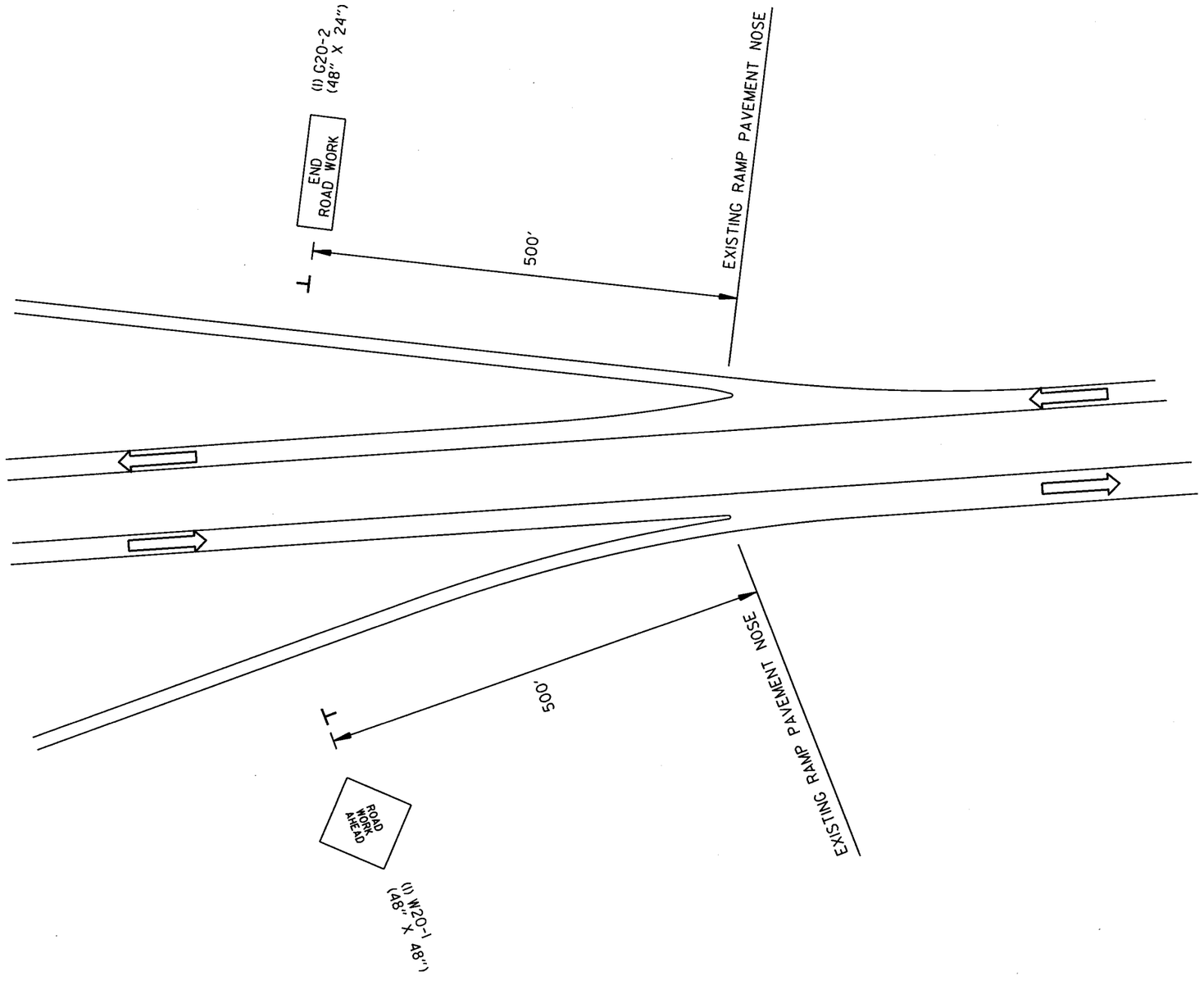
(2) MAINTENANCE OF TRAFFIC DETAILS — JOB NO. 012215

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
KEITH D. KEITH
No. 11435
9-18-18

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	9A	194

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
9-18-18



ADVANCE WARNING SIGNS
DETAIL OF ENTRANCE AND EXIT RAMPS

9/13/2018

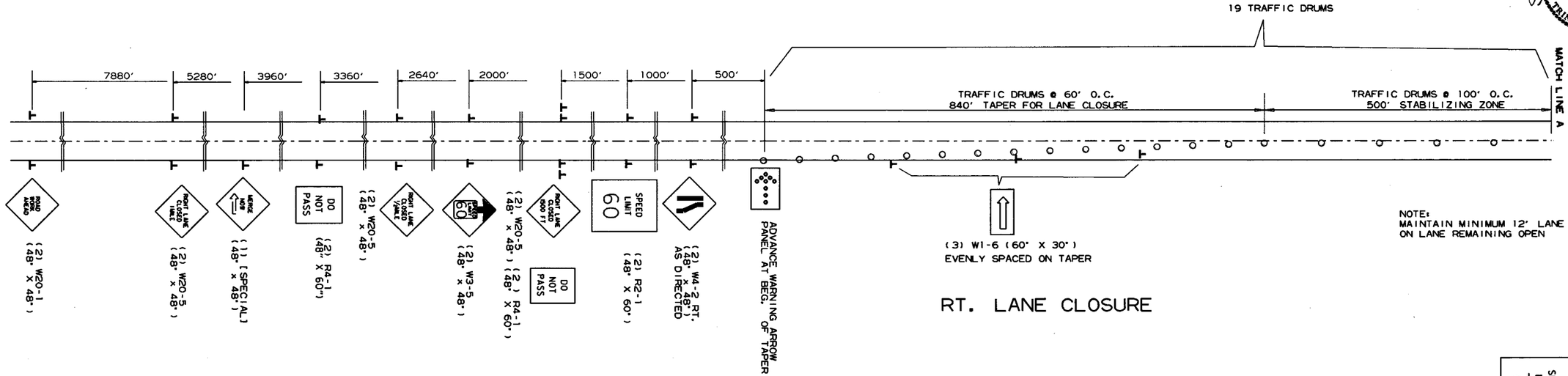
R012215.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	98	194

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
9-18-18

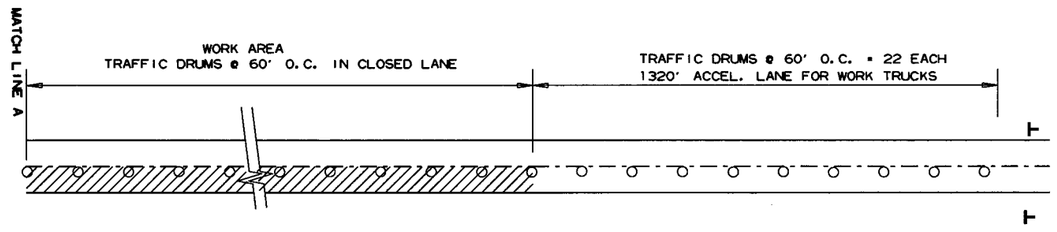
PORTABLE CHANGEABLE MESSAGE SIGN TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER



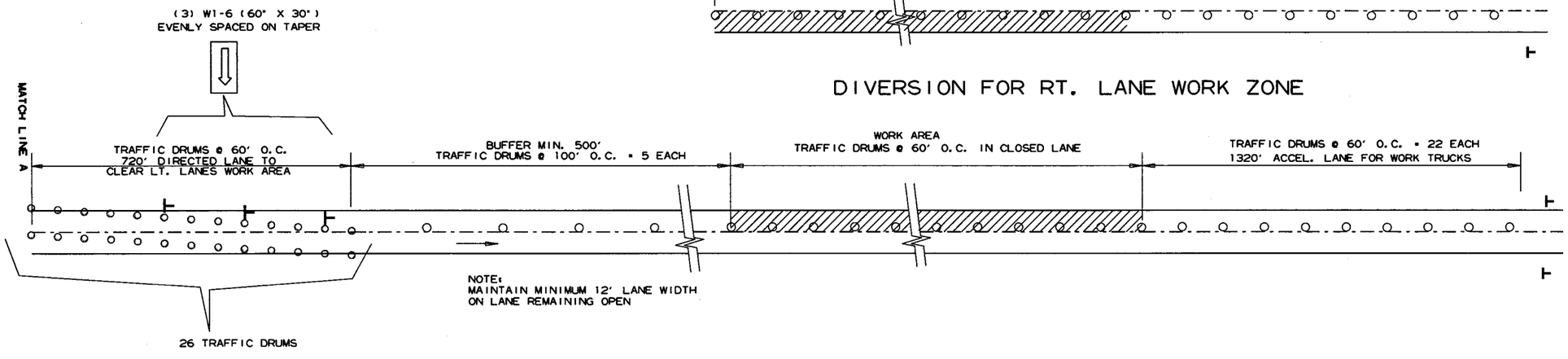
RT. LANE CLOSURE

SPEED LIMIT 60

SPEED LIMIT 70



DIVERSION FOR RT. LANE WORK ZONE



DIVERSION FOR LT. LANE WORK ZONE

9/13/2018

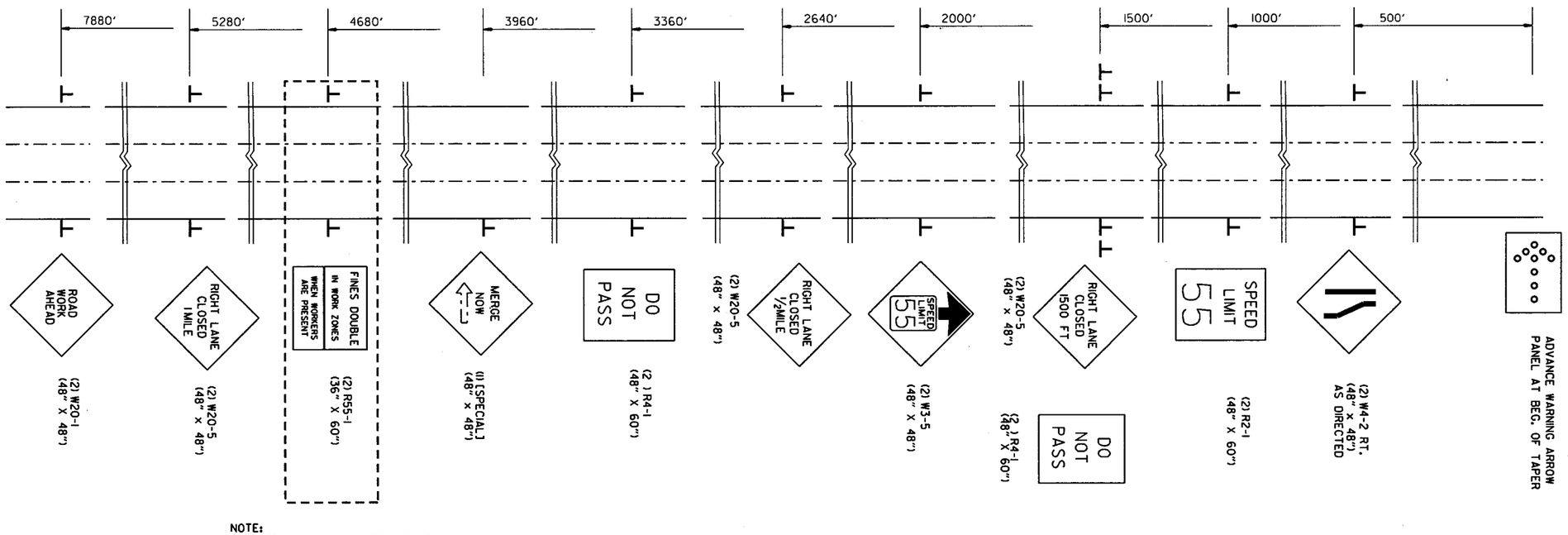
R012215.DGN

MAINTENANCE OF TRAFFIC DETAILS

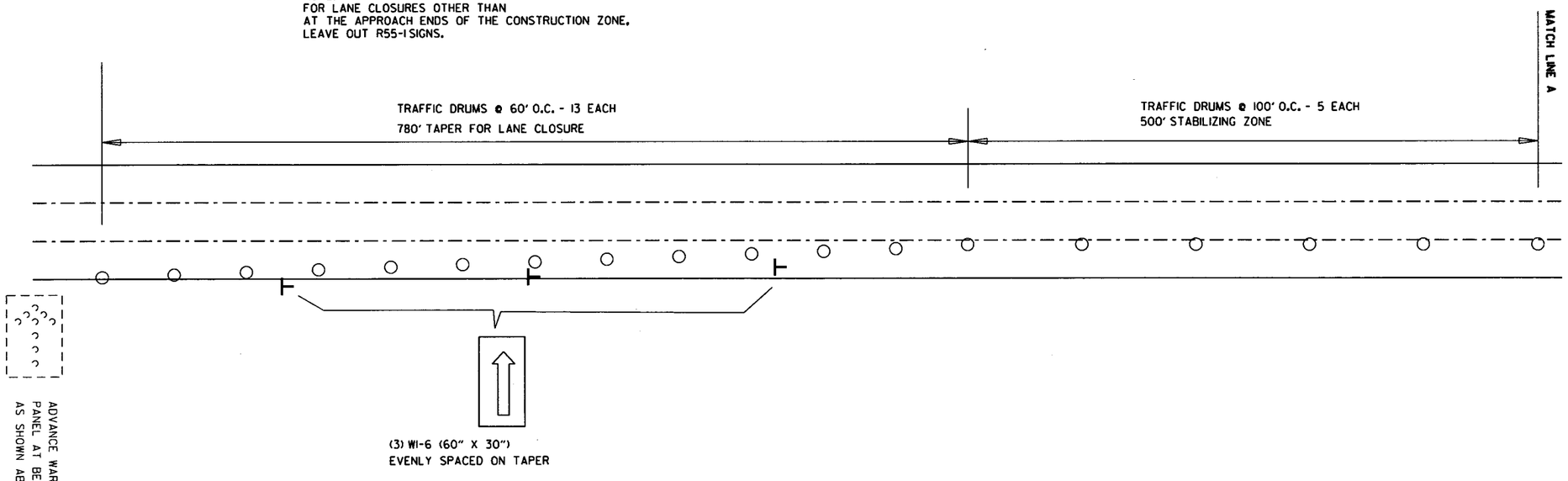
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	9C	194

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
9-18-18



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

LANE CLOSURE
MAINTENANCE OF TRAFFIC DETAILS

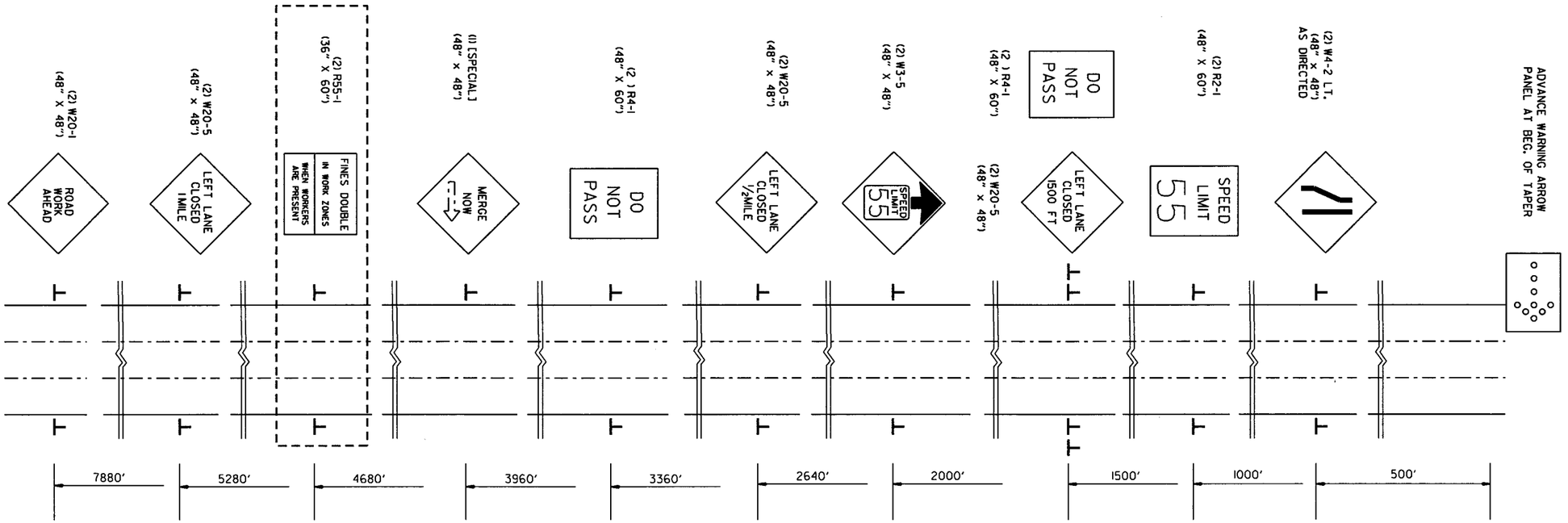
9/13/2018

R012215.DGN

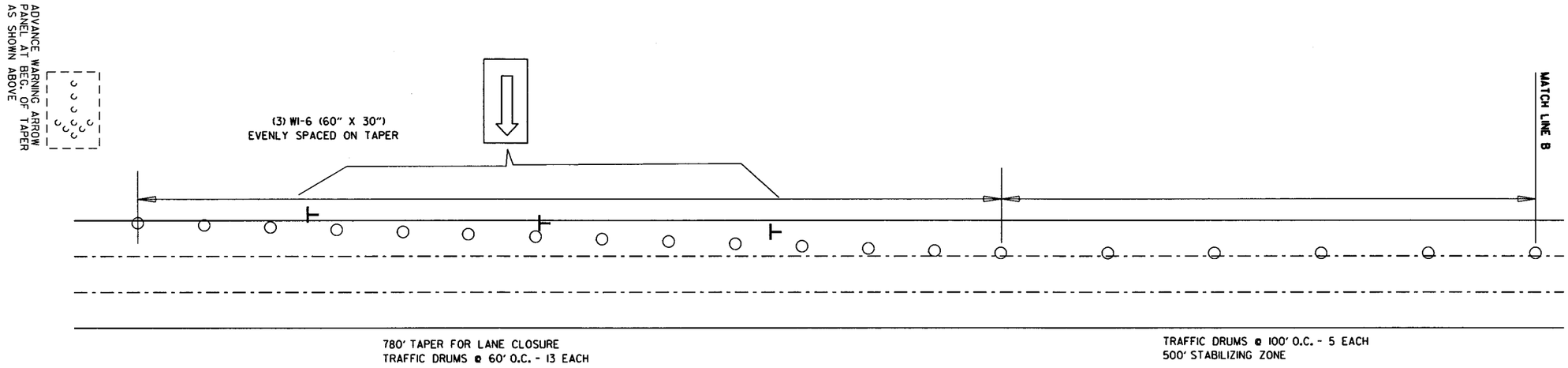
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	10	194

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
9-18-18



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

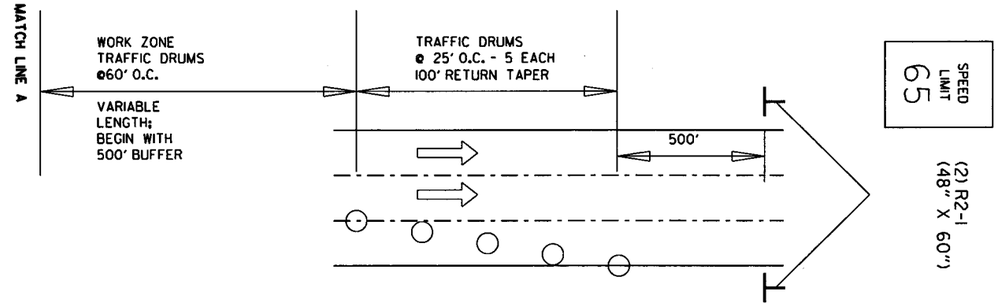
9/13/2018

R012215.DGN

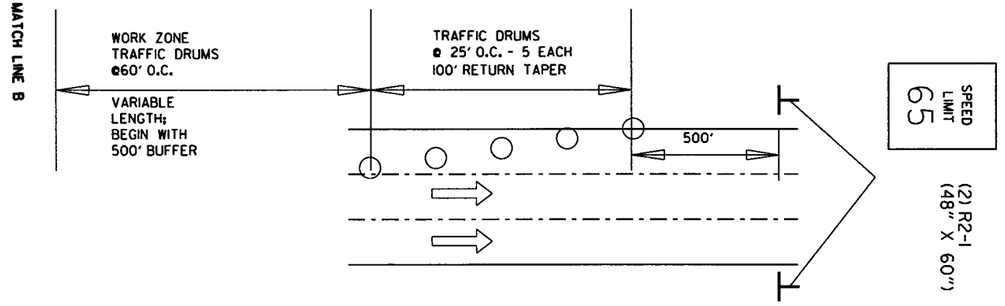
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	11	194

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
9-18-18



DIVERSION FOR OUTSIDE LANE CLOSURE



DIVERSION FOR INSIDE LANE CLOSURE

TYPICAL TRAFFIC DRUM LAYOUT
FOR DIVERSION OF LANE CLOSURES

9/13/2018

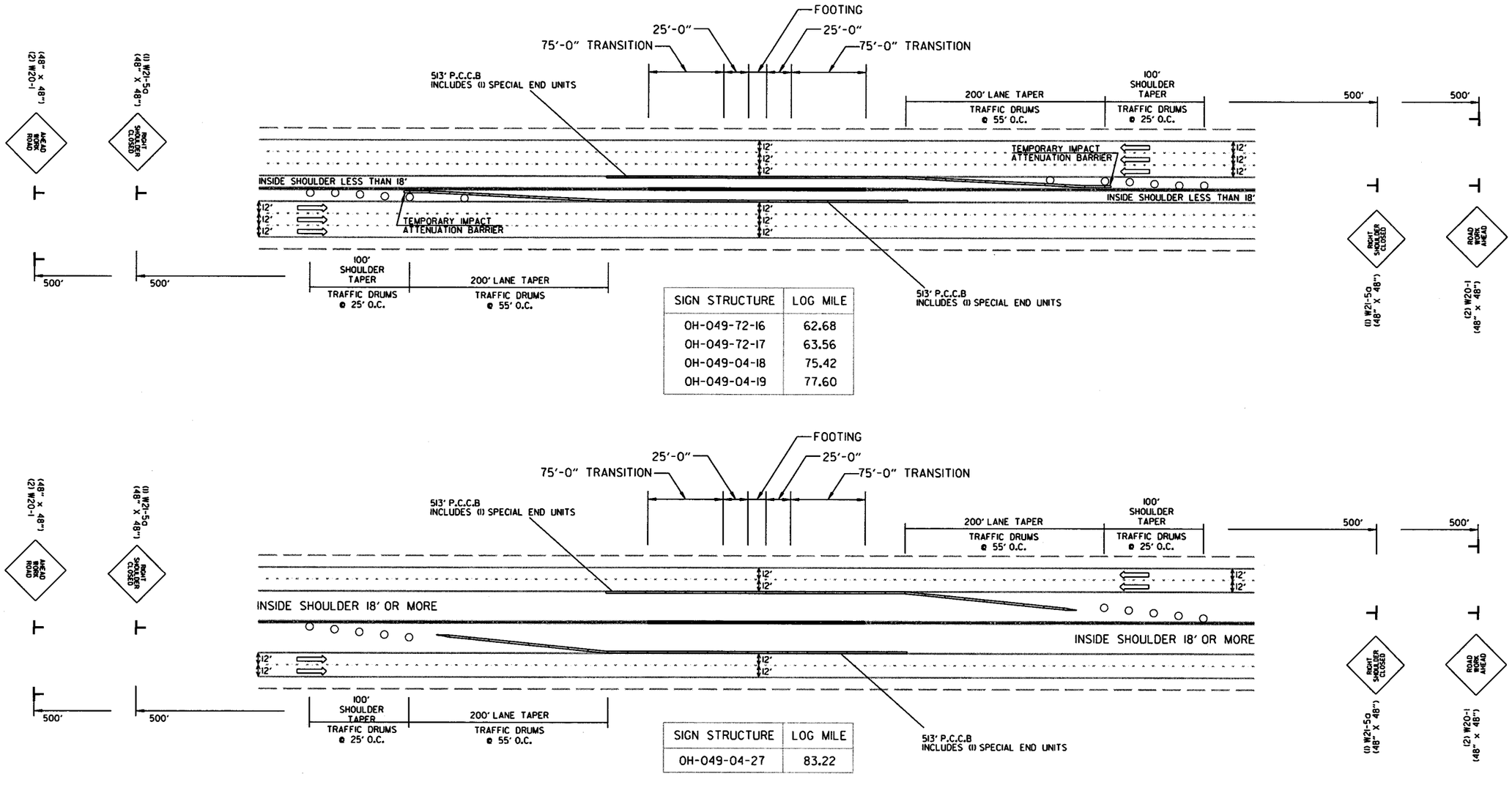
R012215.DGN

LANE CLOSURE
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	12	194

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH
9-18-18



SIGN STRUCTURE	LOG MILE
OH-049-72-16	62.68
OH-049-72-17	63.56
OH-049-04-18	75.42
OH-049-04-19	77.60

SIGN STRUCTURE	LOG MILE
OH-049-04-27	83.22

DETAIL FOR CONSTRUCTION OF OVERHEAD SIGN STRUCTURE
MEDIAN FOOTING IN CONCRETE MEDIAN BARRIER WALL

NOTE: REFER TO STANDARD DRAWING TC-5 FOR ADDITIONAL INFORMATION

9/13/2018

R012215.DGN

MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
09-27-18				6	ARK.			
10-05-18				JOB NO.		012215	13	194
				(2) QUANTITIES				

WIRE ROPE SAFETY FENCE

LOG MILE	LOCATION	*DESCRIPTION	WIRE ROPE SAFETY FENCE END TERMINAL
			EACH
60.20	I-49 MEDIAN	BRIFEN	1
60.22	I-49 MEDIAN	BRIFEN	1
61.37	I-49 MEDIAN	GIBRALTAR	1
61.39	I-49 MEDIAN	GIBRALTAR	1
61.73	I-49 MEDIAN	GIBRALTAR	1
61.75	I-49 MEDIAN	GIBRALTAR	1
TOTALS:			6

* SHOWN FOR INFORMATION ONLY.

REMOVAL AND DISPOSAL OF ITEMS

LOG MILE	LOG MILE	LOCATION	WIRE ROPE SAFETY FENCE	CONCRETE DITCH PAVING
			LIN. FT.	SQ. YD.
59.39	59.41	I-49 MEDIAN		36
60.20	60.22	I-49 MEDIAN	80	
61.37	61.39	I-49 MEDIAN	80	
61.73	61.75	I-49 MEDIAN	80	
TOTAL:			240	36

CONCRETE BARRIER WALL

LOG MILE	LOG MILE	LOCATION	MEDIAN TYPE SP-1
			LIN. FT.
62.67	62.68	I-49 MEDIAN	100
62.68	62.69	I-49 MEDIAN	100
63.55	63.56	I-49 MEDIAN	100
63.56	63.57	I-49 MEDIAN	100
TOTAL:			400

OVERHEAD SIGN STRUCTURE FOUNDATION

LOG MILE	LOCATION	EACH
62.68	I-49 MEDIAN	1
63.56	I-49 MEDIAN	1
TOTAL:		2

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 11425 TRINITY D. SMITH
10-9-18

EROSION CONTROL

STATION	STATION	LOCATION	PERMANENT EROSION CONTROL					TEMPORARY EROSION CONTROL					
			SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	WATTLE (20") DITCH CHECKS (E-1)	SAND BAG DITCH CHECKS (E-5)	ROCK DITCH CHECKS (E-6)	DROP INLET SILT FENCE (E-7)	SILT FENCE (E-11)	*SEDIMENT REMOVAL & DISPOSAL
			ACRE	TON	ACRE	M.GAL.	ACRE	LIN. FT.	BAG	CU.YD.	LIN. FT.	LIN. FT.	CU. YD.
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.			0.14	0.28	0.14	14.3	0.14	306	1496	204	816	17680	685
TOTALS:			0.14	0.28	0.14	14.3	0.14	306	1496	204	816	17680	685

BASIS OF ESTIMATE:
LIME .....2 TONS / ACRE OF SEEDING
WATER.....102.0 M.G. / ACRE OF SEEDING
WATER.....20.4 M.G. / ACRE OF TEMPORARY SEEDING
WATER.....12.6 GAL. / SQ. YD. OF SOLID SODDING
WATTLE DITCH CHECKS.....9 LIN. FT. / LOCATION
SAND BAG DITCH CHECKS.....22 BAGS / LOCATION
ROCK DITCH CHECKS.....3 CU.YD./LOCATION

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

STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION
			CU. YD.
ENTIRE	PROJECT	*GAURDRAIL WIDENING	1633
TOTALS:			1633

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

NOTE: EARTHWORK QUANTITIES SHOWN ABOVE SHALL BE PAID AS PLAN QUANTITY.

MODIFICATION TO EXISTING BARRIER WALL

LOG MILE	LOG MILE	LOCATION	MODIFICATION OF EXISTING SIGN FOUNDATION	MODIFICATION OF EXISTING BARRIER WALL
			EACH	LINEAR FEET
75.41	75.42	I-49 MEDIAN		100
75.42	75.42	I-49 MEDIAN	1	
75.42	75.43	I-49 MEDIAN		100
77.59	77.60	I-49 MEDIAN		100
77.60	77.60	I-49 MEDIAN	1	
77.60	77.61	I-49 MEDIAN		100
83.21	83.22	I-49 MEDIAN		100
83.22	83.22	I-49 MEDIAN	1	
83.22	83.23	I-49 MEDIAN		100
TOTALS:			3	600

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	ENTIRE PROJECT	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		CONSTRUCTION PROJECT INFORMATION SIGN UPDATE	TRAFFIC DRUMS	FURNISHING & INSTALLING PRECAST CONC. BARRIER	RELOCATING PRECAST CONCRETE BARRIER	TEMPORARY IMPACT ATTENUATION BARRIER	TEMP. IMPACT ATTEN.BARR. (REPAIR)	TEMP. IMPACT ATTEN.BARR. (RELOCATION)	* ADVANCE WARNING ARROW PANEL	* PORTABLE CHANGEABLE MESSAGE SIGN
			LIN. FT. - EACH		NO.	SQ. FT.	EACH		LIN. FT.		EACH			DAY	WEEK
W20-1	ROAD WORK 1 MILE	48"x48"	4	4	4	64.0									
W20-1	ROAD WORK 1/2 MILE	48"x48"	4	4	4	64.0									
W20-1	ROAD WORK 1500 FT.	48"x48"	4	4	4	64.0									
W20-1	ROAD WORK AHEAD	48"x48"	2	2	2	32.0									
G20-2	END ROAD WORK	48"x24"	4	4	4	32.0									
G20-1	ROAD WORK NEXT xx MILES	60"x24"	2	2	2	20.0									
R55-1	FINES DOUBLE IN WORK ZONES	60"x36"	4	4	4	60.0									
W20-5	RIGHT LANE CLOSED 1 MILE	48"x48"	2	2	2	32.0									
W20-5	RIGHT LANE CLOSED 1/2 MILE	48"x48"	2	2	2	32.0									
W20-5	RIGHT LANE CLOSED 1500 FT.	48"x48"	2	2	2	32.0									
SPECIAL	MERGE NOW W/ ARROW	48"x48"	1	1	1	16.0									
W3-5	REDUCED SPEED AHEAD	48"x48"	2	2	2	32.0									
W1-6	LARGE ARROW	60"x30"	6	6	6	75.0									
R4-1	DO NOT PASS	48"x60"	4	4	4	80.0									
W21-5a	SHOULDER CLOSED	48"x30"	2	2	2	20.0									
R2-1	SPEED LIMIT 60 MPH	48"x60"	2	2	2	40.0									
R2-1	SPEED LIMIT 70 MPH	48"x60"	2	2	2	40.0									
W4-2 RT.	MERGE RIGHT	48"x48"	2	2	2	32.0									
SPECIAL	CONSTRUCTION PROJECT INFORMATION SIGN	96"x48"	2	2	2	32.0									
	CONSTRUCTION PROJECT INFORMATION SIGN UPDATE		10	10			10								
	TRAFFIC DRUMS			362				362							
	FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER		1052	1052					1052						
	RELOCATING PRECAST CONCRETE BARRIER		25248	25248						25248					
	TEMPORARY IMPACT ATTENUATION BARRIER		2	2							2				
	TEMPORARY IMPACT ATTENUATION BARRIER (REPAIR)		2	2								2			
	TEMPORARY IMPACT ATTENUATION BARRIER (RELOCATION)		48	48									48		
	ADVANCE WARNING ARROW PANEL													140	
	PORTABLE CHANGEABLE MESSAGE SIGN														20
TOTALS:						799.0	10	362	1052	25248	2	2	48	140	20

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

NOTE: THE QUANTITY OF TRAFFIC DRUMS PROVIDED IS FOR A TWO MILE WORK AREA IN ONE DIRECTION ALONG THE ROADWAY. HOWEVER, THE INSTALLATION OF TRAFFIC DRUMS SHALL NEVER EXCEED THE ACTUAL WORK AREA BY MORE THAN 1/4 MILE, UNLESS APPROVED BY THE ENGINEER.

9/17/2018

R012215.DGN

QUANTITIES

SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
202	REMOVAL AND DISPOSAL OF CONCRETE DITCH PAVING	36	SQ. YD.
SP & 202	REMOVAL AND DISPOSAL OF WIRE ROPE SAFETY FENCE	240	LIN. FT.
202	REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER	5	EACH
202	REMOVAL AND DISPOSAL OF OVERHEAD SIGN STRUCTURE	8	EACH
210	UNCLASSIFIED EXCAVATION	1633	CU. YD.
SS & 303	AGGREGATE BASE COURSE (CLASS 7)	3360	TON
SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	776	TON
SP, SS, & 407	ASPHALT BINDER (PG 76-22) IN ACHM SURFACE COURSE (1/2")	40	TON
601	MOBILIZATION	1.00	LUMP SUM
SP & 603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
SS & 604	SIGNS	799	SQ. FT.
SP, SS, & 604	CONSTRUCTION PROJECT INFORMATION SIGN UPDATE	10	EACH
SS & 604	TRAFFIC DRUMS	362	EACH
604	FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER	1052	LIN. FT.
604	RELOCATING PRECAST CONCRETE BARRIER	25248	LIN. FT.
604	ADVANCE WARNING ARROW PANEL	140	DAY
SP & 604	PORTABLE CHANGEABLE MESSAGE SIGN	20	WEEK
617	GUARDRAIL (TYPE A)	8397	LIN. FT.
617	TERMINAL ANCHOR POSTS (TYPE 1)	48	EACH
SS & 617	GUARDRAIL TERMINAL (TYPE 2)	48	EACH
SP	WIRE ROPE SAFETY FENCE END TERMINAL	6	EACH
620	LIME	1	TON
620	SEEDING	0.14	ACRE
SS & 620	MULCH COVER	0.14	ACRE
620	WATER	14.3	M. GAL.
621	SILT FENCE	17680	LIN. FT.
621	SAND BAG DITCH CHECKS	1496	BAG
621	DROP INLET SILT FENCE	816	LIN. FT.
621	SEDIMENT REMOVAL AND DISPOSAL	685	CU. YD.
621	ROCK DITCH CHECKS	204	CU. YD.
621	WATTLE (20")	306	LIN. FT.
623	SECOND SEEDING APPLICATION	0.14	ACRE
631	CONCRETE BARRIER WALL (MEDIAN TYPE SP-1)	400	LIN. FT.
SP	MODIFICATION OF EXISTING BARRIER WALL	600	LIN. FT.
635	ROADWAY CONSTRUCTION CONTROL	1.00	LUMP SUM
SP	INSTALLATION OF CAMERA ON STRUCTURE	61	EACH
SP	INSTALLATION OF RADIO ON STRUCTURE	108	EACH
SP	PHOTOVOLTAIC SYSTEM	6	EACH
SP	ANTENNA SUPPORT STRUCTURE ASSEMBLY (60')	2	EACH
SP	ANTENNA SUPPORT STRUCTURE ASSEMBLY (80')	6	EACH
SP	ANTENNA SUPPORT STRUCTURE ASSEMBLY (90')	3	EACH
SP	BATTERY BACKUP SYSTEM	48	EACH
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/4 A.W.G., E.G.C.)	7056	LIN. FT.
709	GALVANIZED STEEL CONDUIT (2")	120	LIN. FT.
710	NON-METALLIC CONDUIT (1.25")	4280	LIN. FT.
SP & 711	CONCRETE PULL BOX (TYPE 2 HD)	4	EACH
SP	TILT TOWER (40')	29	EACH
SP	SERVICE POINT ASSEMBLY (1 CIRCUIT)	42	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-13)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-14)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-15)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-16)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-17)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-18)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-20)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-21)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-22)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-23)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-24)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-25)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-26)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-27)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-28)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-29)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-30)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-31)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-18)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-19)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-21)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-22)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-23)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-25)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-26)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-27)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-29)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-17-01)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-17-02)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-040-17-23)	1	EACH
724	OVERHEAD SIGN STRUCTURE FOUNDATION	2	EACH
SP & 724	STEEL TEE MOUNT OVERHEAD SIGN STRUCTURE (TM-049-72-12)	1	EACH
SP & 724	STEEL TEE MOUNT OVERHEAD SIGN STRUCTURE (TM-049-72-19)	1	EACH
SP & 724	STEEL TEE MOUNT OVERHEAD SIGN STRUCTURE (TM-049-04-30)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-049-17-03)	3	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-040-17-24)	2	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-049-17-04)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-049-04-20)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-049-04-24)	2	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-040-17-25)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-040-17-26)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-040-17-27)	1	EACH
SP	MODIFICATION OF EXISTING SIGN FOUNDATION	3	EACH
725	GUIDE SIGN-ROADSIDE MOUNTED (DEMOUNTABLE LEGEND)	19716	SQ. FT.
725	GUIDE SIGN-OVERHEAD MOUNTED (DEMOUNTABLE LEGEND)	10588	SQ. FT.
726	STANDARD SIGN	4659	SQ. FT.
727	EXIT NUMBER PANEL (TYPE A)	1950	SQ. FT.
727	EXIT NUMBER PANEL (TYPE B)	110	SQ. FT.
727	EXIT NUMBER PANEL (TYPE C)	35	SQ. FT.
SP & 729	CHANNEL POST SIGN SUPPORT (TYPE U-1)	238	EACH
730	BREAKAWAY SIGN SUPPORT (TYPE G-2)	112478	POUND
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G-1)	29	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G-2)	164	EACH
731	TEMPORARY IMPACT ATTENUATION BARRIER	2	EACH
731	TEMPORARY IMPACT ATTENUATION BARRIER (REPAIR)	2	EACH
731	TEMPORARY IMPACT ATTENUATION BARRIER (RELOCATION)	48	EACH
SP	DRILLED SHAFT (30" DIAMETER)	611	LIN. FT.
SP	MAINTENANCE BUILDING	1.00	LUMP SUM
SP	OVERHEAD DMS ASSEMBLY	7	EACH

REVISIONS

DATE	REVISION	SHEET NUMBER
9/27/2018	REVISED QUANTITY OF ADVANCED WARNING ARROW PANEL.	13, 14
10/5/2018	ADDED WIRE ROPE SAFETY FENCE END TERMINAL SPECIAL PROVISION AND QUANTITY, REMOVED WIRE ROPE SAFETY FENCE (WRSF) SPECIFICATIONS SPECIAL PROVISION.	3, 13, 14
10/17/2018	REVISED MAINTENANCE OF TRAFFIC SPECIAL PROVISON.	14

SUMMARY OF QUANTITIES AND REVISIONS

STATE OF ARKANSAS TIMOTHY D. SMITH REGISTERED PROFESSIONAL ENGINEER NO. 11435
10-18-18

FEDERAL DIST. NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	012215	14	194

(2) SUMMARY OF QUANTITIES AND REVISIONS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED
09-27-18			
10-05-18			
10-17-18			

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		0225	15	194

② SIGNING SUMMARY OF QUANTITIES

SIGNING SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	TOTAL	UNIT
202	REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER	5	EACH
202	REMOVAL AND DISPOSAL OF OVERHEAD SIGN STRUCTURE	8	EACH
SS & 303	AGGREGATE BASE COURSE (CLASS 7)	3360	TON
SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	776	TON
SP, SS, & 407	ASPHALT BINDER (PG 76-22) IN ACHM SURFACE COURSE (1/2")	40	TON
617	GUARDRAIL (TYPE A)	8397	LIN. FT.
617	TERMINAL ANCHOR POSTS (TYPE 1)	48	EACH
SS & 617	GUARDRAIL TERMINAL (TYPE 2)	48	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-13)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-14)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-15)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-16)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-17)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-18)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-20)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-21)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-22)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-23)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-24)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-25)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-26)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-27)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-28)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-29)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-30)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-72-31)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-18)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-19)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-21)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-22)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-23)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-25)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-26)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-27)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-04-29)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-17-01)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-049-17-02)	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-040-17-23)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-049-17-03)	3	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-040-17-24)	2	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-049-17-04)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-049-04-20)	1	EACH
SP	STEEL BRIDGE MOUNTED SIGN STRUCTURE (BM-049-04-24)	2	EACH
SP & 724	STEEL TEE MOUNT OVERHEAD SIGN STRUCTURE (TM-049-72-12)	1	EACH
SP & 724	STEEL TEE MOUNT OVERHEAD SIGN STRUCTURE (TM-049-72-19)	1	EACH
SP & 724	STEEL TEE MOUNT OVERHEAD SIGN STRUCTURE (TM-049-04-30)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-040-17-26)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-040-17-25)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-040-17-27)	1	EACH
SP	OVERHEAD DMS ASSEMBLY	7	EACH
725	GUIDE SIGN - ROADSIDE MOUNTED (DEMOUNTABLE LEGEND)	19716	SQ. FT.
725	GUIDE SIGN - OVERHEAD MOUNTED (DEMOUNTABLE LEGEND)	10588	SQ. FT.
726	STANDARD SIGN	4659	SQ. FT.
727	EXIT NUMBER PANEL (TYPE A)	1950	SQ. FT.
727	EXIT NUMBER PANEL (TYPE B)	110	SQ. FT.
727	EXIT NUMBER PANEL (TYPE C)	35	SQ. FT.
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORT (TYPE G-1)	29	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORT (TYPE G-2)	164	EACH
SP & 729	CHANNEL POST SIGN SUPPORT (TYPE U-1)	238	EACH
730	BREAKAWAY SIGN SUPPORT (TYPE G-2)	112478	POUND

NOTES:

ALL EXISTING GUIDE SIGNS SHALL BE MAINTAINED IN SUCH A MANNER THAT THE SIGNS ARE FULLY VISIBLE, INTACT, AND ERECT FOR THE DURATION OF THE PROJECT, AND SHALL BE REMOVED WHEN THEIR USE IS NO 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 CONTRACTOR SHOULD MAKE EVERY EFFORT TO LOCATE BURIED UTILITIES PRIOR TO EXCAVATION 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 FURTHER 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 95.1%
ASPHALT BINDER (PG 76 – 22) 4.9%

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
4-12-18
JOSEPH A. SARTI III

STANDARD SIGNS (BOX 1 of 3)

SIGN NO./ LOCATION	STANDARD SIGNS FLAT SHEET U-CHANNEL SIGN SUPPORTS TYPE U-1 EA.	U-2 EA.	U2-1 EA.	U-3 EA.	U3-1 EA.	U3-2 EA.	STANDARD SIGN SQ. FT.
SS-49-32+02NB	1						7.50
SS-49-32+06NB	1						7.50
SS-49-32+10NB	1						7.50
SS-49-32+14NB	1						7.50
SS-49-32+18NB	1						7.50
SS-49-32+22NB	1						7.50
SS-49-32+26NB	1						7.50
SS-49-32+30NB	1						7.50
SS-49-36+65NB	1						7.50
SS-49-36+69NB	1						7.50
SS-49-36+74NB	1						7.50
SS-49-36+78NB	1						7.50
SS-49-36+82NB	1						7.50
SS-49-36+86NB	1						7.50
SS-49-36+90NB	1						7.50
SS-49-36+95NB	1						7.50
SS-49-41+52NB	1						7.50
SS-49-41+55NB	1						7.50
SS-49-41+58NB	1						7.50
SS-49-41+62NB	1						7.50
SS-49-41+66NB	1						7.50
SS-49-41+70NB	1						7.50
SS-49-46+95NB	1						7.50
SS-49-46+99NB	1						7.50
SS-49-47+03NB	1						7.50
SS-49-47+06NB	1						7.50
SS-49-47+10NB	1						7.50
SS-49-47+14NB	1						7.50
SS-49-47+18NB	1						7.50
SS-49-47+21NB	1						7.50
SS-49-47+25NB	1						7.50
SS-49-47+29NB	1						7.50
SS-49-54+39NB	1						7.50
SS-49-54+42NB	1						7.50
SS-49-54+46NB	1						7.50
SS-49-54+50NB	1						7.50
SS-49-54+54NB	1						7.50
SS-49-54+58NB	1						7.50
SS-49-56+50NB	1						7.50
SS-49-56+54NB	1						7.50
SS-49-56+58NB	1						7.50
SS-49-NB-RAMP1	1						7.50
SS-49-NB-RAMP2	1						7.50
SS-49-NB-RAMP3	1						7.50
SS-49-NB-RAMP4	1						7.50
SS-49-NB-RAMP5	1						7.50
SS-49-25+47SB	1						7.50
SS-49-25+71SB	1						7.50
SS-49-25+74SB	1						7.50
SS-49-25+78SB	1						7.50
SS-49-25+82SB	1						7.50
SS-49-25+86SB	1						7.50
SS-49-32+09SB	1						7.50
SS-49-32+11SB	1						7.50
SS-49-32+14SB	1						7.50
SS-49-32+16SB	1						7.50
SS-49-32+19SB	1						7.50
SS-49-32+22SB	1						7.50
SS-49-32+25SB	1						7.50
SS-49-32+28SB	1						7.50
SS-49-36+63SB	1						7.50
SS-49-36+67SB	1						7.50
SS-49-36+71SB	1						7.50
SS-49-36+75SB	1						7.50
SS-49-36+79SB	1						7.50
SS-49-36+83SB	1						7.50
SS-49-36+87SB	1						7.50
SS-49-36+91SB	1						7.50
SS-49-36+95SB	1						7.50
SS-49-36+99SB	1						7.50
SS-49-37+64SB	1						7.50
SS-49-37+68SB	1						7.50
SS-49-37+91SB	1						7.50
SS-49-37+95SB	1						7.50
SS-49-84+00SB	1						7.50
SS-49-85+00NB	1						3.00
SS-49-85+00SB	1						3.00
SS-49-86+00NB	1						3.00
SS-49-36+99NB	1						7.50
SS-49-86+00SB	1						3.00
SUBTOTALS (BOX 1 OF 3):	80	0	0	0	0	0	577.50

STANDARD SIGNS (BOX 2 of 3)

SIGN NO./ LOCATION	STANDARD SIGNS FLAT SHEET U-CHANNEL SIGN SUPPORTS TYPE U-1 EA.	U-2 EA.	U2-1 EA.	U-3 EA.	U3-1 EA.	U3-2 EA.	STANDARD SIGN SQ. FT.
SS-49-37+96SB	1						7.50
SS-49-38+05SB	1						7.50
SS-49-38+09SB	1						7.50
SS-49-38+12SB	1						7.50
SS-49-49+98SB	1						7.50
SS-47-49+08SB	1						7.50
SS-49-47+11SB	1						7.50
SS-49-47+15SB	1						7.50
SS-49-47+19SB	1						7.50
SS-49-47+23SB	1						7.50
SS-49-47+27SB	1						7.50
SS-49-47+30SB	1						7.50
SS-49-47+34SB	1						7.50
SS-49-56+53SB	1						7.50
SS-49-56+57SB	1						7.50
SS-49-56+61SB	1						7.50
SS-49-56+64SB	1						7.50
SS-49-56+68SB	1						7.50
SS-49-56+72SB	1						7.50
SS-49-20+00NB	1						7.50
SS-49-20+00SB	1						7.50
SS-49-21+00NB	1						7.50
SS-49-21+00SB	1						7.50
SS-49-22+00NB	1						7.50
SS-49-22+00SB	1						7.50
SS-49-23+00NB	1						7.50
SS-49-23+00SB	1						7.50
SS-49-24+00NB	1						7.50
SS-49-24+00SB	1						7.50
SS-49-25+00NB	1						7.50
SS-49-25+00SB	1						7.50
SS-49-26+00NB	1						7.50
SS-49-26+00SB	1						7.50
SS-49-26+85NB	1						7.50
SS-49-26+85SB	1						7.50
SS-49-28+00NB	1						7.50
SS-49-28+00SB	1						7.50
SS-49-29+00NB	1						7.50
SS-49-29+00SB	1						7.50
SS-49-30+00NB	1						7.50
SS-49-30+00SB	1						7.50
SS-49-31+00NB	1						7.50
SS-49-31+00SB	1						7.50
SS-49-32+00NB	1						7.50
SS-49-32+00SB	1						7.50
SS-49-33+00NB	1						7.50
SS-49-33+00SB	1						7.50
SS-49-34+00SB	1						7.50
SS-49-35+00NB	1						7.50
SS-49-35+00SB	1						7.50
SS-49-36+00NB	1						7.50
SS-49-36+00SB	1						7.50
SS-49-37+00NB	1						7.50
SS-49-37+00SB	1						7.50
SS-49-38+00NB	1						7.50
SS-49-38+00SB	1						7.50
SS-49-39+12NB	1						7.50
SS-49-39+11SB	1						7.50
SS-49-40+00NB	1						7.50
SS-49-40+00SB	1						7.50
SS-49-41+00NB	1						7.50
SS-49-41+00SB	1						7.50
SS-49-42+00NB	1						7.50
SS-49-42+00SB	1						7.50
SS-49-43+00NB	1						7.50
SS-49-43+00SB	1						7.50
SS-49-43+98NB	1						7.50
SS-49-43+98SB	1						7.50
SS-49-45+00NB	1						7.50
SS-49-45+00SB	1						7.50
SS-49-46+00NB	1						7.50
SS-49-46+00SB	1						7.50
SS-49-47+00NB	1						7.50
SS-49-87+00SB	1						7.50
SS-49-98+00NB	1						7.50
SS-49-98+00SB	1						7.50
SS-49-99+00NB	1						7.50
SUBTOTALS (BOX 2 OF 3):	79	0	0	0	0	0	322.50

STANDARD SIGNS (BOX 3 of 3)

SIGN NO./ LOCATION	STANDARD SIGNS FLAT SHEET U-CHANNEL SIGN SUPPORTS TYPE U-1 EA.	U-2 EA.	U2-1 EA.	U-3 EA.	U3-1 EA.	U3-2 EA.	STANDARD SIGN SQ. FT.
SS-49-47+00SB	1						3.00
SS-49-48+00NB	1						3.00
SS-49-48+00SB	1						3.00
SS-49-49+00NB	1						3.00
SS-49-49+00SB	1						3.00
SS-49-50+00NB	1						3.00
SS-49-50+00SB	1						3.00
SS-49-51+00NB	1						3.00
SS-49-51+00SB	1						3.00
SS-49-52+00NB	1						3.00
SS-49-52+00SB	1						3.00
SS-49-53+00NB	1						3.00
SS-49-53+00SB	1						3.00
SS-49-54+00NB	1						3.00
SS-49-54+00SB	1						3.00
SS-49-55+00NB	1						3.00
SS-49-55+00SB	1						3.00
SS-49-56+00NB	1						3.00
SS-49-56+00SB	1						3.00
SS-49-57+00NB	1						3.00
SS-49-57+00SB	1						3.00
SS-49-58+00NB	1						3.00
SS-49-58+00SB	1						3.00
SS-49-59+00NB	1						3.00
SS-49-59+00SB	1						3.00
SS-49-60+00NB	1						3.00
SS-49-60+00SB	1						3.00
SS-49-61+00NB	1						3.00
SS-49-61+00SB	1						3.00
SS-49-62+00NB	1						3.00
SS-49-62+00SB	1						3.00
SS-49-63+00NB	1						3.00
SS-49-63+00SB	1						3.00
SS-49-64+00NB	1						3.00
SS-49-64+00SB	1						3.00
SS-49-65+00NB	1						3.00
SS-49-65+00SB	1						3.00
SS-49-66+00NB	1						3.00
SS-49-66+00SB	1						3.00
SS-49-67+00NB	1						3.00
SS-49-67+00SB	1						3.00
SS-49-68+00NB	1						3.00
SS-49-68+00SB	1						3.00
SS-49-69+00NB	1						3.00
SS-49-69+00SB	1						3.00
SS-49-70+00NB	1						3.00
SS-49-70+00SB	1						3.00
SS-49-71+00NB	1						3.00
SS-49-71+00SB	1						3.00
SS-49-72+00NB	1						3.00
SS-49-72+00SB	1						3.00
SS-49-73+00NB	1						3.00
SS-49-73+00SB	1						3.00
SS-49-74+00NB	1						3.00
SS-49-74+00SB	1						3.00
SS-49-75+00NB	1						3.00
SS-49-75+00SB	1						3.00
SS-49-76+00NB	1						3.00
SS-49-76+00SB	1						3.00
SS-49-77+00NB	1						3.00
SS-49-77+00SB	1						3.00
SS-49-78+00NB	1						3.00
SS-49-78+00SB	1						3.00
SS-49-79+00NB	1						3.00
SS-49-79+00SB	1						3.00
SS-49-80+00NB	1						3.00
SS-49-80+00SB	1						3.00
SS-49-81+00NB	1						3.00
SS-49-81+00SB	1						3.00
SS-49-82+00NB	1						3.00
SS-49-82+00SB	1						3.00
SS-49-83+00NB	1						3.00
SS-49-83+00SB	1						3.00
SS-49-84+00NB	1						3.00
SS-49-89+00SB	1						3.00
SS-49-90+00NB	1						3.00
SS-49-90+00SB	1						3.00
SS-49-91+00NB	1						3.00
SS-49-91+00SB	1						3.00
SUBTOTALS (BOX 3 OF 3):	79	0	0	0	0	0	237.00
SUBTOTALS (BOX 2 OF 3):	79	0	0	0	0	0	322.50
SUBTOTALS (BOX 1 OF 3):	80	0	0	0	0	0	577.50

TOTALS:	238	0	0	0	0	0	1137.00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		010215	16	194

② SIGNING QUANTITES

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
9-12-18
JOSEPH A. SARTAIN

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.
SS-49-20+02NB	1												12.13
SS-49-69+43NB	1												12.13
SS-49-71+85NB	1												12.13
SS-49-75+56NB	1												12.13
SS-49-77+20NB	1												12.13
SS-49-78+60NB	1												12.13
SS-49-80+42NB	1												12.13
SS-49-83+27NB	1												12.13
SS-49-86+46NB	1												12.13
SS-49-88+25NB	1												12.13
SS-49-28+68SB	1												12.13
SS-49-33+55SB	1												12.13
SS-49-60+03SB	1												12.13
SS-49-64+47SB	1												12.13
SS-49-63+27SB	1												12.13
SS-49-68+60SB	1												12.13
SS-49-72+46SB	1												12.13
SS-49-75+85SB	1												12.13
SS-49-77+55SB	1												12.13
SS-49-20+05SB-A		1											20.00
SS-49-20+05SB-B		1											20.00
SS-49-91+26NB		1											20.00
SS-49-91+53SB		1											20.00
SS-49-60+85NB-A		1											20.00
SS-49-60+85NB-B		1											20.00
SS-49-62+93NB		1											20.00
SS-49-63+40SB		1											20.00
SS-49-64+38SB		1											20.00
SS-49-20+09NB		1											20.00
SS-49-21+42NB		1											20.00
SS-49-24+42NB		1											20.00
SS-49-30+35NB		1											20.00
SS-49-34+82NB		1											20.00
SS-49-45+91NB		1											20.00
SS-49-53+63NB		1											20.00
SS-49-58+76NB		1											20.00
SS-49-71+92NB		1											20.00
SS-49-73+47NB		1											20.00
SS-49-75+66NB		1											20.00
SS-49-74+66SB		1											20.00
SS-49-75+66NB		1											20.00
SS-49-88+35NB		1											20.00
SS-49-23+06SB		1											20.00
SS-49-28+47SB		1											20.00
SS-49-33+21SB		1											20.00
SS-49-43+97SB		1											20.00
SS-49-52+10SB		1											20.00
SS-49-57+29SB		1											20.00
SS-49-59+84SB		1											20.00
SS-49-60+72SB		1											20.00
SS-49-70+23SB		1											20.00
SS-49-71+12SB		1											20.00
SS-49-72+38SB		1											20.00
SS-49-74+66SB		1											20.00
SS-49-75+70SB		1											20.00
SS-49-77+48SB		1											20.00
SS-49-91+10SB		1											20.00
SS-49-19+95SB-B		1											20.00
SS-49-19+95SB-A		1											20.00
SS-49-29+94NB		1											16.00
SS-49-37+12SB		1											16.00
SS-49-37+64NB		1											16.00
SS-49-44+52SB		1											16.00
SS-49-45+60NB		1											16.00
SS-49-56+77SB		1											16.00
SS-49-60+75NB-A		1											16.00
SS-49-60+75NB-B		1											16.00
SS-49-62+98NB		1											16.00
SS-49-62+75SB-A		1											16.00
SS-49-62+75SB-B		1											16.00
SS-49-62+89SB-A		1											16.00
SS-49-62+89SB-B		1											16.00
SS-49-63+81SB		1											16.00
SS-40-WB-RAMP1		1											20.00
SS-40-EB-RAMP1		1											20.00
SS-40-WB-RAMP2		1											20.00
SS-49-37+69NB-A		1											18.00
SS-49-37+69NB-B		1											18.00
SS-49-20+67NB		1											16.00
SS-49-23+83NB		1											16.00
SS-49-29+56NB		1											16.00
SS-49-35+02NB		1											16.00
SS-49-45+33NB		1											16.00
SS-49-53+05NB		1											16.00
SS-49-58+17NB		1											16.00
SS-49-60+92NB		1											16.00
SS-49-69+06NB		1											16.00
SS-49-71+60NB		1											16.00
SS-49-72+28NB		1											16.00
SS-49-72+96NB		1											16.00
SS-49-75+25NB		1											16.00
SS-49-78+06NB		1											16.00
SS-49-80+42NB		1											16.00
SS-49-29+95NB	1												5.00
SS-49-29+95SB	1												5.00
SS-49-37+75NB	1												5.00
SS-49-37+75SB	1												5.00
SUBTOTALS (BOX 1 OF 2):	23	74											1610.47

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.
SS-49-81+99NB		1											16.00
SS-49-82+97NB		1											16.00
SS-49-84+35NB		1											16.00
SS-49-86+20NB		1											16.00
SS-49-20+62SB		1											16.00
SS-49-29+27SB		1											16.00
SS-49-34+05SB		1											16.00
SS-49-52+80SB		1											16.00
SS-49-57+90SB		1											16.00
SS-49-61+99SB		1											16.00
SS-49-68+81SB		1											16.00
SS-49-69+83SB		1											16.00
SS-49-70+63SB		1											16.00
SS-49-71+43SB		1											16.00
SS-49-72+76SB		1											16.00
SS-49-75+05SB		1											16.00
SS-49-77+79SB		1											16.00
SS-49-79+95NB		1											16.00
SS-49-84+17SB		1											16.00
SS-49-86+18SB		1											16.00
SS-49-87+78SB		1											16.00
SS-49-91+36SB		1											16.00
SS-49-86+20NB		1											16.00
SS-49-91+36SB		1											16.00
SS-49-20+15SB-A		1											16.00
SS-49-20+15SB-B		1											16.00
SS-49-20+20NB		1											20.00
SS-49-21+45NB		1											20.00
SS-49-24+53NB		1											20.00
SS-49-30+57NB		1											20.00
SS-49-34+92NB		1											20.00
SS-49-39+71NB		1											20.00
SS-49-46+03NB		1											20.00
SS-49-53+70NB		1											20.00
SS-49-59+04NB		1											20.00
SS-49-88+45NB		1											20.00
SS-49-22+94SB		1											20.00
SS-49-28+30SB		1											20.00
SS-49-33+21SB		1											20.00
SS-49-43+84SB		1											20.00
SS-49-57+17SB		1											20.00
SS-49-90+68SB		1											20.00
SS-49-61+75SB		1											16.00
SS-49-61+33NB		1											16.00
SS-49-19+70SB-A		1											20.00
SS-49-19+70SB-B		1											20.00
SS-49-21+02NB		1											16.00
SS-49-26+73NB		1											16.00
SS-49-33+26NB		1											16.00
SS-49-35+60NB		1											16.00
SS-49-37+12NB		1											16.00
SS-49-38+72NB		1											16.00
SS-49-43+14NB		1											16.00
SS-49-43+90NB		1											16.00
SS-49-47+24NB		1											16.00
SS-49-48+85NB		1											16.00
SS-49-51+51NB		1											16.00
SS-49-61+92NB		1											16.00
SS-49-68+52NB		1											16.00
SS-49-68+81NB		1											16.00
SS-49-71+34NB		1											16.00
SS-49-74+60NB		1											16.00
SS-49-76+75NB		1											16.00
SS-49-80+54NB		1											16.00
SS-49-81+49NB		1											16.00
SS-49-84+13NB		1											16.00
SS-49-89+95NB		1											16.00
SS-49-91+31NB		1											16.00
SS-49-27+40SB		1											16.00
SS-49-32+70SB		1											16.00
SS-49-33+58SB		1											16.00
SS-49-36+05SB		1											16.00
SS-49-42+51SB		1											16.00
SS-49-43+54SB		1											16.00
SS-49-44+39SB		1											16.00
SS-49-48+06SB		1											16.00
SS-49-51+83SB		1											16.00
SS-49-60+76SB		1											16.00
SS-49-62+18SB		1											16.00
SS-49-68+85SB		1											16.00
SS-49-69+10SB		1											16.00
SS-49-71+61SB		1											16.00
SS-49-74+95SB		1											16.00
SS-49-76+88SB		1											16.00
SS-49-81+85SB		1											16.00
SS-49-83+15SB		1											16.00
SS-49-84+38SB		1											16.00
SS-49-85+96SB		1											16.00
SS-49-90+27SB		1											16.00
SS-49-91+56SB		1											16.00
SS-49-20+10	1												10.00
SS-49-25+75	1												10.00
SS-49-28+32	1												10.00
SS-49-41+19	1												10.00
SS-49-45+85	1												10.00
SS-49-51+51	1												10.00
SUBTOTALS (BOX 2 OF 2):	6	90											1572.00

TOTALS:	29	164											3182.47

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		17	191

SIGNING QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		040225	18	194

② SIGNING QUANTITIES

MAIN LANES ROADSIDE MOUNTED SIGNING QUANTITIES (BOX 1 OF 3)

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.				
ML49-21-2NB					1		15.50	5.50	85.25	W8	18.00	13.00	14.00		4.66	4.66		2.50	6.50	4.33	653.76	21	23.75				
ML49-21-3NB					1		19.00	4.00	76.00	W8	18.00	12.00	13.00		4.66	4.66		2.50	6.50	4.33	617.76	21	23.75			NO SERVICES	20.00
ML49-21-3SB					1		18.50	4.00	74.00	W8	18.00	12.00	13.00		4.66	4.66		2.50	6.50	4.33	617.76	21	23.75			NO SERVICES	20.00
ML49-24-1NB					1		12.50	11.50	143.75	W8	21.00	18.00	19.00		3.99	3.99		2.50	5.50	3.66	944.58						
ML49-24-2NB					1		10.50	8.50	89.25	W8	18.00	15.00	16.00		4.33	4.33		2.50	6.00	4.00	713.88	24	23.75				
ML49-24-2SB					1		10.50	8.50	89.25	W8	18.00	15.00	16.00		4.33	4.33		2.50	6.00	4.00	713.88	24	23.75				
ML49-24-1SB					1		9.50	10.00	95.00	W8	18.00	17.00	18.00		4.66	4.66		2.50	6.50	4.33	797.76	24	23.75				
ML49-29-2NB					1		16.50	10.00	165.00	W10	22.00	17.00	18.00		5.33	5.33		3.00	7.50	5.00	1004.52	29	23.75				
ML49-29-4NB					1		20.00	8.50	170.00	W8	21.00	15.00	16.00		3.99	3.99		2.50	5.50	3.66	818.58	29	23.75				
ML49-29-4SB					1		20.00	8.50	170.00	W8	21.00	15.00	16.00		3.99	3.99		2.50	5.50	3.66	818.58	29	23.75				
ML49-29-2SB					1		16.50	10.00	165.00	W10	22.00	17.00	18.00		5.33	5.33		3.00	7.50	5.00	1004.52	29	23.75				
ML49-29-3NB					1		12.50	11.50	143.75	W8	21.00	18.00	19.00		3.99	3.99		2.50	5.50	3.66	944.58						
ML49-29-3SB					1		12.50	11.50	143.75	W8	21.00	18.00	19.00		3.99	3.99		2.50	5.50	3.66	944.58						
ML49-34-2NB					1		12.50	11.50	143.75	W8	21.00	18.00	19.00		3.99	3.99		2.50	5.50	3.66	944.58						
ML49-34-1SB					1		9.00	3.00	27.00	W6	9.00	10.00	11.00		3.33	3.33		1.50	4.50	3.00	248.94						
ML49-45-3NB					1		9.00	3.00	27.00	W6	9.00	10.00	11.00		3.33	3.33		1.50	4.50	3.00	248.94						
ML49-34-3SB					1		9.50	10.00	95.00	W8	18.00	17.00	18.00		4.66	4.66		2.50	6.50	4.33	797.76	34	23.75				
ML49-34-3NB					1		13.50	8.50	114.75	W8	18.00	15.00	16.00		4.66	4.66		2.50	6.50	4.33	725.76	34	23.75				
ML49-34-5SB					1		13.00	8.00	104.00	W8	18.00	14.00	15.00		4.66	4.66		2.50	6.50	4.33	689.76	34	23.75				
ML49-45-4NB					1		10.00	10.00	100.00	W8	18.00	17.00	18.00		4.66	4.66		2.50	6.50	4.33	797.76	45	23.75				
ML49-45-2SB					1		10.00	10.00	100.00	W8	18.00	17.00	18.00		4.66	4.66		2.50	6.50	4.33	797.76	45	23.75				
ML49-45-6NB					1		13.50	8.50	114.75	W8	18.00	15.00	16.00		4.66	4.66		2.50	6.50	4.33	725.76	45	23.75				
ML49-45-3SB					1		13.50	8.50	114.75	W8	18.00	15.00	16.00		4.66	4.66		2.50	6.50	4.33	725.76	45	23.75				
ML49-93-5NB-A					1		9.50	3.50	33.25	W6	9.00	10.00	11.00		3.33	3.33		1.50	4.50	3.00	248.94						
ML49-93-5NB-B					1		9.50	3.50	33.25	W6	9.00	10.00	11.00		3.33	3.33		1.50	4.50	3.00	248.94						
ML49-62-2SB					1		12.00	5.00	60.00	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML49-53-2NB					1		12.50	10.00	125.00	W8	21.00	17.00	18.00		4.99	4.99		2.50	7.00	4.66	944.58	53	23.75				
ML49-53-3SB					1		15.50	8.50	131.75	W8	21.00	15.00	16.00		3.99	3.99		2.50	5.50	3.66	818.58	53	23.75				
ML49-53-2SB					1		12.50	10.00	125.00	W8	21.00	17.00	18.00		4.99	4.99		2.50	7.00	4.66	944.58	53	23.75				
ML49-58-1NB					1		12.50	5.50	68.75	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88	58	23.75				
ML49-58-3SB					1		12.50	5.50	68.75	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88	58	23.75				
ML49-58-2NB					1		16.00	4.00	64.00	W8	18.00	11.00	12.00		4.33	4.33		2.50	6.00	4.00	569.88	58	23.75				
ML49-58-4SB					1		16.00	4.00	64.00	W8	18.00	11.00	12.00		4.33	4.33		2.50	6.00	4.00	569.88	58	23.75				
ML49-60-1NB					1		13.00	5.00	65.00	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML49-60-4NB					1		12.50	11.50	143.75	W8	21.00	18.00	19.00		3.99	3.99		2.50	5.50	3.66	944.58						
ML49-60-3NB					1		19.00	12.00	228.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00	60	23.75				
ML49-60-2SB						1	23.00	10.50	241.50	W10	22.00	17.00	18.00	18.0	5.33	5.33	5.33	3.00	7.50	5.00	1400.52	60	23.75				
ML49-60-1SB					1		14.00	7.00	98.00	W8	18.00	14.00	15.00		3.99	3.99		2.50	5.50	3.66	665.64						
ML49-60-6NB					1		17.50	12.00	210.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
ML49-61-1SB					1		12.50	11.50	143.75	W8	21.00	18.00	19.00		3.99	3.99		2.50	5.50	3.66	944.58						
ML49-61-2SB					1		17.50	7.00	122.50	W8	21.00	14.00	15.00		4.99	4.99		2.50	7.00	4.66	818.58						
ML49-62-2NB					1		12.00	5.00	60.00	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML49-62-3SB						1	26.00	10.00	260.00	W10	26.00	17.00	18.00	18.0	5.66	5.66	5.66	3.00	8.00	5.33	1672.32						
ML49-62-3NB						1	26.00	10.00	260.00	W10	26.00	17.00	18.00	18.0	5.66	5.66	5.66	3.00	8.00	5.33	1672.32						
ML49-64-1NB					1		15.50	10.00	155.00	W8	21.00	17.00	18.00		4.99	4.99		2.50	7.00	4.66	944.58						
ML49-64-1SB					1		15.50	10.00	155.00	W8	21.00	17.00	18.00		4.99	4.99		2.50	7.00	4.66	944.58						
ML49-67-1SB					1		13.00	5.00	65.00	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML49-69-1NB					1		9.00	5.00	45.00	W6	9.00	12.00	13.00		2.33	2.33		1.50	3.00	2.00	266.94						
ML49-72-1NB					1		17.00	10.00	170.00	W8	21.00	17.00	18.00		6.67	6.67		3.00	9.50	6.33	1015.14						
ML49-72-1SB					1		16.00	5.00	80.00	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML49-73-1SB					1		9.00	1.50	13.50	W6	9.00	8.50	9.50		3.66	3.66		1.50	5.00	3.33	227.88						
ML49-76-3NB					1		6.00	1.50	9.00	W6	9.00	8.50	9.50		2.99	2.99		1.50	4.00	2.66	215.82						
ML49-88-1SB					1		10.50	5.00	52.50	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML49-93-1SB					1		17.00	13.00	221.00	W10	22.00	20.00	21.00		7.00	7.00		3.00	10.00	6.67	1210.00	93	23.75				
ML49-82-2NB					1		16.00	9.00	144.00	W8	21.00	16.00	17.00		6.67	6.67		3.00	9.50	6.33	973.14						
ML49-76-4NB					1		14.00	7.00	98.00	W8	18.00	14.00	15.00		3.99	3.99		2.50	5.50	3.66	665.64						
ML49-76-4SB					1		14.00	7.00	98.00	W8	18.00	14.00	15.00		3.99	3.99		2.50	5.50	3.66	665.64						
ML49-76-3SB					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						
ML49-78-3NB					1		9.00	5.00	45.00	W6	9.00	12.00	13.00		2.33	2.33		1.50	3.00	2.00	266.94						
ML49-78-2SB					1		9.00	5.00	45.00	W6	9.00	12.00	13.00		2.33	2.33		1.50	3.00	2.00	266.94						
ML49-78-3SB					1		14.00	7.00	98.00	W8	18.00	14.00	15.00		3.99	3.99		2.50	5.50	3.66	665.64						
SUBTOTALS (BOX 1 OF 3):					58	3			6726.25												45875.24		641.25				40.00

REMOVAL AND DISPOSAL

LOCATION	IMPACT ATTENUATION BARRIERS EACH
40-LM 11.79 EB	1
40-LM 12.70 EB	1
40-LM 12.95 EB	1
40-LM 12.95 WB	1
49-LM 19.84 SB	1
TOTAL:	5

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
9-12-18
JOSEPH A. SARTIN

MAIN LANES ROADSIDE MOUNTED SIGNING QUANTITIES (PAGE 2 OF 3)

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		010225	19	194

SIGNING QUANTITIES

SIGN NO./ LOCATION	OMNI-DIRECTIONAL SIGN SUPPORT			I-BEAM STRUCTURE TYPE			GUIDE SIGN DEMOUNTABLE LEGEND			I-BEAM BREAKAWAY SIGN SUPPORT																EXIT NUMBER PANEL				SUPPLEMENTAL GUIDE SIGN DEMOUNTABLE	
										STEEL SECT. A-572		SIGN POST LENGTH			STUB POST			FOOTINGS			SIGN POST AND STUB										
	G1	G2	G3	G1	G2	G3	LENGTH LIN. FT.	HEIGHT LIN. FT.	SQ. FT.	BEAM	LBS	H-1 LIN FT	H-2 LIN FT	H-3 LIN FT	H-1 LIN FT	H-2 LIN FT	H-3 LIN FT	DIA. LIN FT	DEPTH LIN FT	EMBED. LIN FT	POUND	LEGEND	TYPE A SQ. FT.	TYPE B SQ. FT.	TYPE C SQ. FT.	GUIDE SIGN DEMOUNTABLE LEGEND	GUIDE SIGN DEMOUNTABLE SQ. FT.
ML49-81-1NB					1		13.00	5.00	65.00	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88									
ML49-82-1NB					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									
ML49-82-1SB					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									
ML49-83-1NB					1		15.50	7.00	108.50	W8	21.00	14.00	15.00		4.99	4.99		2.50	7.00	4.66	818.58									
ML49-83-1SB					1		15.50	7.00	108.50	W8	21.00	14.00	15.00		4.99	4.99		2.50	7.00	4.66	818.58									
ML49-85-1NB					1		13.00	5.00	65.00	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88									
ML49-85-2NB					1		14.00	7.00	98.00	W8	21.00	14.00	15.00		4.66	4.66		2.50	6.50	4.33	804.72									
ML49-85-4NB					1		15.00	7.00	105.00	W8	21.00	14.00	15.00		4.99	4.99		2.50	7.00	4.66	818.58									
ML49-86-1NB					1		14.00	7.00	98.00	W8	21.00	14.00	15.00		4.66	4.66		2.50	6.50	4.33	804.72									
ML49-86-2NB					1		19.00	9.00	171.00	W10	22.00	16.00	17.00		5.66	5.66		3.00	8.00	5.33	975.04									
ML49-76-2NB					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									
ML49-88-5SB					1		13.00	5.00	65.00	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88									
ML49-93-4NB-A					1		9.50	3.50	33.25	W6	9.00	10.50	11.50		3.33	3.33		1.50	4.50	3.00	257.94									
ML49-93-4NB-B					1		9.50	3.50	33.25	W6	9.00	10.50	11.50		3.33	3.33		1.50	4.50	3.00	257.94									
ML49-88-4SB					1		17.00	11.00	187.00	W10	22.00	18.00	19.00		5.66	5.66		3.00	8.00	5.33	1063.04	88	23.75							
ML49-93-1NB					1		17.00	10.50	178.50	W10	22.00	17.50	18.50		5.66	5.66		3.00	8.00	5.33	1041.04	93	23.75							
ML49-93-2NB						1	22.00	10.00	220.00	W10	22.00	17.00	18.00	18.0	5.33	5.33	5.33	3.00	7.50	5.00	1400.52	93	23.75							
ML49-45-1NB					1		15.00	7.00	105.00	W8	21.00	14.00	15.00		4.99	4.99		2.50	7.00	4.66	818.58									
ML49-53-3NB					1		15.00	8.50	127.50	W10	22.00	15.50	16.50		4.99	4.99		3.00	7.00	4.66	923.56	53	23.75							
ML49-24-3NB					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									
ML49-34-6SB					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									
ML49-45-5NB					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									
ML49-88-3SB					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									
ML49-58-2SB					1		15.00	7.00	105.00	W8	21.00	14.00	15.00		4.99	4.99		2.50	7.00	4.66	818.58									
LF49-24NB					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									
LGX49-53NB					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									
LGX49-53SB					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									
LGF49-58SB					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									
LGF49-58NB					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									
LGC49-24NB					1		12.50	12.00	150.00	W10	22.00	19.00	20.00		5.33	5.33		3.00	7.50	5.00	1092.52									
LLC49-60NB					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									
LGF49-70NB					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									
LL49-72SB					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									
LF49-73NB					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									
LF49-72SB					1		18.00	14.00	252.00	W12	26.00	21.00	22.00		3.99	3.99		3.00	7.00	3.66	1325.48									
LG49-72SB					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									
LGA49-73SB					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									
LGA49-73NB					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									
LGA49-81NB					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									
LF49-73SB					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									
LL49-85NB					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									
LF49-81NB					1		12.00	13.50	162.00	W10	22.00	20.50	21.50		5.33	5.33		3.00	7.50	5.00	1158.52									
LXL49-93NB					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									
LG49-88SB					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									
LF49-88SB					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									
LF49-24SB					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									
LGC49-24SB					1		12.50	12.00	150.00	W10	22.00	19.00	20.00		5.33	5.33		3.00	7.50	5.00	1092.52									
LL40-13EB					1		18.00	10.00	180.00	W10	22.00	17.00	18.00		5.66	5.66		3.00	8.00	5.33	1019.04									
LC40-13EB					1		18.00	6.50	117.00	W8	21.00	13.00	14.00		4.66	4.66		3.00	6.50	4.33	762.72									
LGA49-62NB					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									
LXA49-60NB					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									
LL49-62NB					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									
LF49-62SB					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									
LF49-62NB					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									
LL49-88SB					1		18.00	6.50	117.00	W8	21.00	13.00	14.00		4.66	4.66		3.00	6.50	4.33	762.72									
LA49-88SB					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									
LGF49-76NB					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									
LF49-64SB					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									
LF49-64NB					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									
LGA49-62SB					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									
LGF49-70SB					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									
LA49-58NB					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									
LF49-81SB					1		12.00	13.50	162.00	W10	22.00	20.50	21.50		5.33	5.33		3.00	7.50	5.00	1158.52									
LF49-83SB					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									
LL49-83SB					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									
LGA49-81SB					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									
LG49-83SB					1		18.00	6.50	117.00	W8	21.00	13.00	14.00		4.66	4.66		3.00	6.50	4.33	762.72									
SUBTOTALS (BOX 2 OF 3):					**66**	**1**			**11052.50**												**66602.98**		**95.00**							

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		0225	20	194

② SIGNING QUANTITIES

MAIN LANES ROADSIDE MOUNTED SIGNING QUANTITIES (BOX 3 OF 3)

SIGN NO./ LOCATION	OMNI-DIRECTIONAL SIGN SUPPORT			I-BEAM STRUCTURE TYPE			GUIDE SIGN DEMOUNTABLE LEGEND			I-BEAM BREAKAWAY SIGN SUPPORT											EXIT NUMBER PANEL				SUPPLEMENTAL GUIDE SIGN DEMOUNTABLE	
										STEEL SECT. A-572		SIGN POST LENGTH			STUB POST			FOOTINGS			SIGN POST AND STUB	LEGEND	TYPE				
												H-1	H-2	H-3	H-1	H-2	H-3	DIA.	DEPTH	EMBED.			A	B	C		
	G1	G2	G3	G1	G2	G3	LENGTH LIN. FT.	HEIGHT LIN. FT.	SQ. FT.	BEAM	LBS	LIN FT			LIN FT			LIN FT			POUND		SQ. FT.			LEGEND	SQ. FT.
EXIT21-NB		1					8.00	5.00	40.00																		
EXIT21-NB-AUX							8.00	2.50	20.00																		
EXIT21-SB		1					8.00	5.00	40.00																		
EXIT21-SB-AUX							8.00	2.50	20.00																		
EXIT24-NB		1					8.00	5.00	40.00																		
EXIT24-SB		1					8.00	5.00	40.00																		
EXIT29-NB		1					8.00	5.00	40.00																		
EXIT29-SB		1					8.00	5.00	40.00																		
EXIT34-NB		1					8.00	5.00	40.00																		
EXIT34-NB-AUX							8.00	2.50	20.00																		
EXIT34-SB		1					8.00	5.00	40.00																		
EXIT45-NB		1					8.00	5.00	40.00																		
EXIT45-SB		1					8.00	5.00	40.00																		
EXOT53-MB		1					8.00	5.00	40.00																		
EXIT53-SB		1					8.00	5.00	40.00																		
EXIT58-NB		1					8.00	5.00	40.00																		
EXIT58-SB		1					8.00	5.00	40.00																		
EXIT60-NB		1					8.00	5.00	40.00																		
EXIT60-SB		1					8.00	5.00	40.00																		
EXIT61-SB		1					8.00	5.00	40.00																		
EXIT62-NB		1					8.00	5.00	40.00																		
EXIT62-NB-AUX							8.00	2.50	20.00																		
EXIT62-SB		1					8.00	5.00	40.00																		
EXIT64-NB		1					8.00	5.00	40.00																		
EXIT64-SB		1					8.00	5.00	40.00																		
EXIT65-NB		1					8.00	5.00	40.00																		
EXIT65-NB-AUX							8.00	2.50	20.00																		
EXIT65-SB		1					8.00	5.00	40.00																		
EXIT65-SB-AUX							8.00	2.50	20.00																		
EXIT69-NB		1					8.00	5.00	40.00																		
EXIT69-SB		1					8.00	5.00	40.00																		
EXIT72-NB		1					8.00	5.00	40.00																		
EXIT72-SB		1					8.00	5.00	40.00																		
EXIT73-NB		1					8.00	5.00	40.00																		
EXIT73-SB		1					8.00	5.00	40.00																		
EXIT76-NB		1					8.00	5.00	40.00																		
EXIT76-SB		1					8.00	5.00	40.00																		
EXIT78-NB		1					8.00	5.00	40.00																		
EXIT78-SB		1					8.00	5.00	40.00																		
EXITWS-NB		1					7.50	6.50	48.75																		
EXITWS-SB		1					7.50	6.50	48.75																		
EXIT81-NB		1					8.00	5.00	40.00																		
EXIT81-SB		1					8.00	5.00	40.00																		
EXIT82-NB		1					8.00	5.00	40.00																		
EXIT82-SB		1					8.00	5.00	40.00																		
EXIT83-NB		1					8.00	5.00	40.00																		
ESIT83-SB-AUX							8.00	2.50	20.00																		
EXIT83-SB		1					8.00	5.00	40.00																		
EXIT85-NB		1					8.00	5.00	40.00																		
EXIT93-NB		1					8.00	5.00	40.00																		
EXIT93-NB-AUX							8.00	2.50	20.00																		
SUBTOTALS (BOX 3 OF 3):		**43**							**1897.50**																		
SUBTOTALS (BOX 2 OF 3):					**66**	**1**			**11052.50**												**66602.98**		**95.00**				
SUBTOTALS (BOX 1 OF 3):					**58**	**3**			**6726.25**												**45875.24**		**641.25**				**40.00**
TOTALS:		**43**			**124**	**4**			**19676.25**												**112478.22**		**736.25**				**40.00**

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTIN
9-12-18

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		01225	21	194
				②	SIGNING QUANTITIES			

OVERHEAD SIGNING QUANTITIES (BOX 1 OF 2)

SIGN NO./ LOCATION	STRUCTURE TYPE: INSTALL SIGN STRUCTURE ST	OC	OH	BM	REMOVE EXISTING SIGN STRUCTURE ST	OC	OH	BM	MODIFY EXISTING SIGN STRUCTURE ST	OC	OH	BM	GUIDE SIGN LENGTH (LIN. FT.)	HEIGHT (LIN. FT.)	SQ. FT.	LEGEND	EXIT NUMBER PANEL TYPE A (SQ. FT.)	B (SQ. FT.)	C (SQ. FT.)	OVERHEAD DMS ASSEMBLY EACH	STD. SIGN SQ. FT.	GUARDRAIL TYPE A LIN. FT.	TERM. ANCHOR POSTS TYPE 1 EACH	GUARDRAIL TERM. TYPE 2 EACH	AGG. BASE CR (CL. 7) TON	ACHM SURF. CR. 220 LBS/SY TON
OH-049-72-14			1																				525	3	3	210	51
OH-049-61+38SB-B													19.00	14.50	275.50	60	23.75										
OH-049-61+38SB-A													15.00	10.00	150.00	61	23.75										
OH-049-72-13			1																				525	3	3	210	51
OH-049-60+21NB-B													16.00	14.00	224.00	62	23.75										
OH-049-60+21NB-A													19.50	13.00	253.50	60	23.75										
OH-049-72-15			1																			20.00	525	3	3	210	51
OH-049-61+74NB-B													16.00	12.00	192.00	64	23.75										
OH-049-61+74NB-A													17.00	15.00	255.00	62	23.75										
OH-049-72-16			1																			20.00	175	1	1	70	17
OH-049-62+68SB-B													15.00	10.00	150.00	61	23.75										
OH-049-62+68SB-A													17.00	15.00	255.00	62	23.75										
OH-049-72-17			1																			20.00	175	1	1	70	17
OH-049-63+56NB-B													11.50	5.50	63.25	65	23.75										
OH-049-63+56NB-A													17.00	12.50	212.50	64	23.75										
OH-049-72-18			1																			20.00	175	1	1	70	17
OH-049-64+16SB-B													16.00	14.00	224.00	62	23.75										
OH-049-64+16SB-A													17.00	12.50	212.50	64	23.75										
OH-049-72-20			1																			20.00	175	1	1	70	17
OH-049-68+63NB-C													12.50	8.50	106.25												
OH-049-68+63NB-B													13.00	8.00	104.00	70	23.75										
OH-049-68+63NB-A													11.50	8.50	97.75	69	23.75										
OH-049-72-21			1																				175	1	1	70	17
OH-049-70+98SB-B													13.00	8.00	104.00	70	23.75										
OH-049-70+98SB-A													10.50	7.50	78.75												
OH-049-72-22			1																			20.00	175	1	1	70	17
OH-049-71+21NB-C													15.00	8.00	120.00	73	23.75										
OH-049-71+21NB-B													8.50	7.00	59.50												
OH-049-71+21NB-A													15.00	11.50	172.50	72	23.75										
OH-049-72-23			1																				175	1	1	70	17
OH-049-71+25SB-B													13.50	8.50	114.75												
OH-049-71+25SB-A													10.00	6.50	65.00												
OH-049-72-24			1																				175	1	1	70	17
OH-049-71+74NB-B													13.00	8.50	110.50												
OH-049-71+74NB-A													10.00	6.50	65.00												
OH-049-72-25			1																			20.00	175	1	1	70	17
OH-049-71+76SB-B													8.50	7.00	59.50												
OH-049-71+76SB-A													15.00	14.00	210.00	72	23.75										
OH-049-72-26			1																				175	1	1	70	17
OH-049-71+95NB-B													14.50	7.50	108.75	73	23.75										
OH-049-71+95NB-A													10.50	7.50	78.75												
OH-049-72-27			1																				175	1	1	70	17
OH-049-72+40NB-A													15.00	8.50	127.50	73	23.75										
OH-049-72-28			1																			20.00	175	1	1	70	17
OH-049-72+61NB-B													8.50	7.00	59.50												
OH-049-72+61NB-A													15.00	14.00	210.00	73	23.75										
OH-049-72-29			1																			20.00	175	1	1	70	17
OH-049-73+21SB-B													15.00	11.00	165.00	72	23.75										
OH-049-73+21SB-A													15.00	9.00	135.00	73	23.75										
OH-049-72-30			1																				175	1	1	70	17
OH-049-73+86NB-A													15.50	8.00	124.00	76	23.75										
OH-049-72-31			1																		1.00		175	1	1	70	17
OH-049-74+05SB-A													15.00	8.00	120.00	73	23.75										
OH-049-04-18			1																			20.00	175	1	1	70	17
OH-049-75+42SB-B													13.50	8.50	114.75												
OH-049-75+42SB-A													15.50	9.00	139.50	76	23.75										
OC-040-17-11						1																					
OC-040-17-27		1																					175	1	1	70	17
OC-040-12-2WB													15.50	10.50	162.75	12	20.00										
OC-040-17-08						1																					
OC-040-17-09						1																					
SUBTOTALS(BOX 1 OF 2):		**1**	**19**			**3**									**5480.25**		**637.50**				**1.00**	**200**	**4550**	**26**	**26**	**1820**	**442**

ACHM

BASIS OF ESTIMATE
NMAX = 205
MINERAL AGGREGATE 95.1%
ASPHALT BINDER (PG 76-22) 4.9%

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTER
6-12-18

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		0225	22	194
				②		SIGNING QUANTITIES		

OVERHEAD SIGNING QUANTITIES (BOX 2 OF 2)

SIGN NO./ LOCATION	STRUCTURE TYPE: INSTALL SIGN STRUCTURE TM	OC	OH	BM	REMOVE EXISTING SIGN STRUCTURE TM	OC	OH	BM	MODIFY EXISTING SIGN STRUCTURE TM	OC	OH	BM	GUIDE SIGN LENGTH (LIN. FT.)	HEIGHT (LIN. FT.)	SQ. FT.	EXIT NUMBER PANEL LEGEND	TYPE A (SQ. FT.)	TYPE B (SQ. FT.)	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	AGG. BASE CR (CL. 7) TON	ACHM SURF. CR. 220 LBS/SY TON
OH-049-04-19			1																		20.00	175	1	1	70	17
OH-049-77+60NB-B													12.50	8.50	106.25													
OH-049-77+60NB-A													14.50	14.00	203.00	78	23.75											
OH-049-04-21			1																			175	1	1	70	17		
OH-049-79+44SB-A													14.50	13.00	188.50	78	23.75											
OH-049-04-22			1																	1.00	20.00	175	1	1	70	17		
OH-049-79+75NB-B													13.50	8.00	108.00	82	23.75											
OH-049-79+75NB-A													18.00	9.00	162.00	81	23.75											
OH-049-04-23			1																		20.00	175	1	1	70	17		
OH-049-80+33SB-B													13.50	8.50	114.75													
OH-049-80+33SB-A													18.00	9.00	162.00	81	23.75											
OH-049-04-25			1																		20.00	175	1	1	70	17		
OH-049-82+17SB-B													18.00	8.00	144.00	81	23.75											
OH-049-82+17SB-A													13.50	9.00	121.50	82	23.75											
OH-049-04-26			1																		20.00	175	1	1	70	17		
OH-049-82+61NB-C													12.50	8.50	106.25													
OH-049-82+61NB-B													18.00	13.00	234.00	85	23.75											
OH-049-82+61NB-A													17.00	9.00	153.00	83	23.75											
OH-049-04-27			1																		20.00	175	1	1	70	17		
OH-049-83+22SB-C													13.50	8.50	114.75													
OH-049-83+22SB-B													13.50	8.00	108.00	82	23.75											
OH-049-83+22SB-A													17.00	9.00	153.00	83	23.75											
OH-049-04-29			1																		20.00	522	3	3	210	51		
OH-049-88+12SB-C													20.00	14.50	290.00	86	23.75											
OH-049-88+12SB-B													13.50	6.00	81.00	87	23.75											
OH-049-88+12SB-A													17.00	11.50	195.50	88	23.75											
BM-049-17-03				3																								
BM49-20-80SB-B													13.50	13.00	175.50	20A		27.50										
BM49-20-80SB-A													14.00	13.00	182.00	20B		27.50										
BM49-20-80SB-C													12.00	8.00	96.00	21	23.75											
BM-049-17-04				1																								
BM49-24-1NB													9.50	10.00	95.00	24	23.75											
BM-049-04-20				1																								
BM49-81-1NB													18.00	7.50	135.00	81	23.75											
BM-049-04-24				2																								
BM49-83-1NB													17.00	8.00	136.00	83	23.75											
BM49-82-1NB													13.50	9.00	121.50	82	23.75											
OH-049-17-01			1																			350	2	2	140	34		
OH-049-21+90SB-B													14.00	12.00	168.00	20A-B			35.00									
OH-049-21+90SB-A													15.50	5.50	85.25	21	23.75											
OH-040-17-23			1																			350	2	2	140	34		
OH-040-11+79EB-B													8.50	9.50	80.75	13	21.25											
OH-040-11+79EB-A													19.00	8.00	152.00	12	20.00											
OC-040-17-26		1																				175	1	1	70	17		
OC-040-13-2EB													12.50	10.50	131.25	13	20.00											
OC-040-17-25		1																				175	1	1	70	17		
OC-040-13-1EB													13.00	10.00	130.00	13	20.00											
BM-040-17-24				2																								
BM-040-12-1WB													14.50	10.50	152.25													
BM-040-12-2WB													15.00	11.00	165.00	12	20.00											
OH-049-17-02			1																			350	2	2	140	34		
OH-049-19+84SB-B													17.00	10.50	178.50	20A		27.50										
OH-049-19+84SB-A													17.00	10.50	178.50	20B		27.50										
TM-049-72-19	1																			2.00								
TM-049-72-12	1																			1.00		350	2	2	140	34		
TM-049-04-30	1																			2.00		350	2	2	140	34		
OH-540-17-09							1																					
OH-040-17-07							1																					
BM-040-17-12								1																				
BM-540-17-08								1																				
BM-540-17-07								1																				
SUBTOTALS (BOX 2 OF 2):	3	2	11	9			2	3							5108.00		676.25	110.00	35.00	6.00	140	3847	22	22	1540	374		
SUBTOTALS (BOX 1 OF 2):		1	19			3									5480.25		637.50			1.00	200	4550	26	26	1820	442		
TOTALS:	3	3	30	9		3	2	3							10588.25		1213.75	110.00	35.00	7.00	340	8397	48	48	3360	816		

ACHM

BASIS OF ESTIMATE
NMAX = 205
MINERAL AGGREGATE 95.1%
ASPHALT BINDER (PG 76-22) 4.9%

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
9-12-18
JOSEPH A. SARTE

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		002215	23	194

SIGN PLACEMENT SHEET

0 200 400 600 ft.

INTERSTATE 49

MATCH LINE
I-49 LM 19+69

INSTALL 5 EA.
SS49-NB-RAMP1
SS49-NB-RAMP2
SS49-NB-RAMP3
SS49-NB-RAMP4
SS49-NB-RAMP5

REPLACE SS40-WB-RAMP2 40 MPH

EXIT 12 — MAINTAIN EXIT-WB40

REPLACE SS40-WB-RAMP1 EXIT 40 MPH

EXIT 12 NORTH 49 Fayetteville EXIT ONLY — REPLACE BM40-12-2WB

WEST 40 SOUTH 540 Fort Smith — REPLACE BM40-12-1WB

REMOVE BM 040-17-12
INSTALL BM 040-17-24

INSTALL OC-040-12-2WB: EXIT 12 NORTH 49 Fayetteville EXIT ONLY

REMOVE OVERHEAD STRUCTURE OC-040-17-11

INSTALL OVERHEAD STRUCTURE OC-040-17-27 LM 12+95 WB

INSTALL GUARDRAIL (NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

REMOVE AND DISPOSE OF EXISTING IMPACT ATTENUATION BARRIERS

6' SHOULDER | 12' EXIT LANE | 12' TRAFFIC LANE | 12' TRAFFIC LANE

INTERSTATE 40

REMOVE OVERHEAD STRUCTURE OC-040-17-09

REPLACE OC-040-13-2EB: EXIT 13 (71) Alma EXIT ONLY

INSTALL OVERHEAD STRUCTURE OC-040-17-26 LM 12+95 EB

INSTALL GUARDRAIL (NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

REMOVE AND DISPOSE OF EXISTING IMPACT ATTENUATION BARRIERS

12' TRAFFIC LANE | 12' EXIT LANE | 6' SHOULDER

REMOVE OVERHEAD STRUCTURE OC-040-17-08

INSTALL OC-040-13-1EB: EXIT 13 (71) Alma EXIT ONLY

INSTALL OVERHEAD STRUCTURE OC-040-17-25 LM 12+70 EB

INSTALL GUARDRAIL (NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

REMOVE AND DISPOSE OF EXISTING IMPACT ATTENUATION BARRIERS

12' TRAFFIC LANE | 12' TRAFFIC LANE | 12' EXIT LANE | 6' SHOULDER

REMOVE OVERHEAD STRUCTURE OH-040-17-07

INSTALL OVERHEAD STRUCTURE OH-040-17-23 LM 11+79 EB

INSTALL GUARDRAIL (NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

REMOVE AND DISPOSE OF EXISTING IMPACT ATTENUATION BARRIERS

INSTALL EXIT 13 (71) Alma 1 MILE — OH040-17-11+79EB-B

INSTALL EXIT 12 (49) NORTH Fayetteville — OH040-17-11+79EB-A

14' | 4'6" SHOULDER | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 10' SHOULDER | 8' | 18'

INSTALL GUARDRAIL (NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

INTERSTATE 40

EXIT 12 — MAINTAIN EXIT-EB40

REPLACE SS40-EB-RAMP1 40 MPH

CAMPING - EXIT 13: AVEN RV PARK | COUNTRY RV PARK — REPLACE LC40-13EB

LODGING - EXIT 13: QUALITY INN | BUDGET INN — REPLACE LL40-13EB

FOOD-EXIT 13: DENNY'S | MCDONALD'S | MAZZIO'S | ETC | CRACKER BARREL | SUBWAY | TACO BELL | MURPHY'S

MAINTAIN

GAS-EXIT 13: SUNOCO | SHELL | MURPHY'S | VALERO

MAINTAIN

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
4-12-18
JOSEPH A. SARTINO

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	24	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

INTERSTATE 40

INTERSTATE 49

INTERSTATE 40

64

MATCH LINE I-49 LM 19+69

REMOVE OVERHEAD STRUCTURE OH-540-17-09

INSTALL OVERHEAD STRUCTURE OH-049-17-02

LM 19+84 SB

INSTALL (B) EXIT 20A INTERSTATE 40 EAST Alma Little Rock OH049-19+84SB-B

EXIT 20B INTERSTATE 40 WEST Van Buren Fort Smith OH049-19+84SB-A INSTALL (A)

4'6" SHOULDER | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 10' SHOULDER

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS

REMOVE AND DISPOSE OF EXISTING IMPACT ATTENUATION BARRIERS

INSTALL GUARDRAIL (NOTE: REFER TO SPECIAL DETAILS SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

INSTALL GUARDRAIL (NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

REPLACE SS49-19+70SB-A SS49-19+70SB-B

EXIT 45 MPH

REPLACE SS49-19+95SB-B

45 MPH

REPLACE SS49-19+95SB-A

45 MPH

INSTALL SS49-20+00SB

MILE 20

REPLACE SS49-20+10

AUTHORIZED VEHICLES ONLY

AUTHORIZED VEHICLES ONLY

REPLACE SS49-20+05SB-A SS49-20+05SB-B

SPEED LIMIT 55

REPLACE SS49-20+15SB-A SS49-20+15SB-B

SPEED LIMIT 55

INTERSTATE 49

LM 20.00

Collum Lane ½ MILE EXIT 21

INSTALL ML49-21-2NB LM 19+94NB

INTERSTATE 49 NORTH

REMOVE LM 19+95NB

MILE 20

REPLACE SS49-20+00NB

INTERSTATE 49 NORTH

INSTALL SS49-20+02NB

John Paul HAMMERSCHMIDT Highway

MAINTAIN LM 20+05NB

SPEED LIMIT 70

REPLACE SS49-20+09NB

SLOWER TRAFFIC KEEP RIGHT

REPLACE SS49-20+20NB

Collum Lane ¼ MILE EXIT 21

REMOVE LM 20+25NB

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 7527 6-22-10 JOSEPH A. SARTAIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		00225	25	199

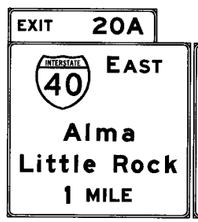
② SIGN PLACEMENT SHEET

0 200 400 600 ft.

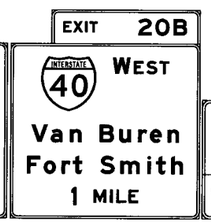
REMOVE BM-540-17-08

INSTALL NEW BM-049-17-03

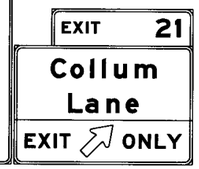
REPLACE BM49-20+80SB-B



REPLACE BM49-20+80SB-A

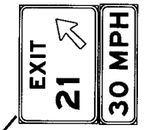


INSTALL BM49-20+80SB-C



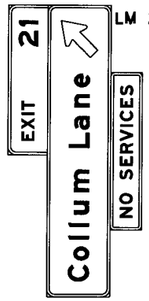
MAINTAIN
LM 20.34 SB

INSTALL
SS49-20+62SB



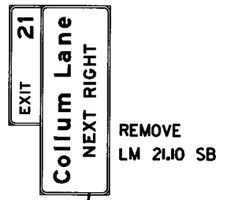
REPLACE
EXIT21-SB
EXIT21-SB-AUX
LM 20.71 SB

LM 20.89 SB



REPLACE
ML49-21-3SB
ML49-21-3SB-AUX

REPLACE
SS49-21+00SB



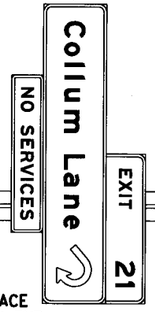
REMOVE
LM 21.10 SB

MAINTAIN
LM 21.40 SB

LM 20.50

LM 21.00

COLLUM LANE



REPLACE
ML49-21-3NB
LM 20.44 NB

INSTALL
EXIT21-NB-AUX

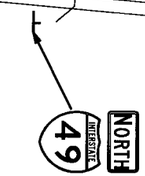
REPLACE
EXIT21-NB

LM 20.60 NB

REPLACE
SS49-20+67NB

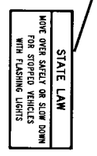
REPLACE
SS49-21+00NB

REPLACE
SS49-21+02NB



MAINTAIN
LM 21.09 NB

MAINTAIN
LM 21.21 NB



REPLACE
ML49-24-3NB
LM 21.33 NB

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02215	26	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

INSTALL (B)

EXITS 20A-B
INTERSTATE 40
Little Rock
Fort Smith
2 MILES

INSTALL
EXIT 21 (A)
Collum Lane
1 MILE

OH-049-17-01
INSTALL OVERHEAD STRUCTURE
LM 21+90 SB

OH049-21+90SB-B

OH049-21+90SB-A

EXISTING SHOULDER

4'6" SHOULDER

16' | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 10' SHOULDER | 16'

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

REMOVE
LM 21.85 SB

EXIT 21
Collum Lane
1 MILE

INTERSTATE 49

INTERSTATE 49

MILE 22
REPLACE
SS49-22+00SB

LM 21.50

LM 22.00

SPEED LIMIT 70
REPLACE
SS49-21+42NB

SLOWER TRAFFIC KEEP RIGHT
INSTALL
SS49-21+45NB

CHECK TRAVEL CONDITIONS AT
IDRIVEARKANSAS.COM
ARKANSAS DEPARTMENT OF TRANSPORTATION
MAINTAIN
LM 21.52 NB

FOOD - EXIT 24
RED HOG BBQ
REPLACE
LF49-24NB
LM 21.86 NB

MILE 22
REPLACE
SS49-22+00NB

GAS - EXIT 24
SHELL
CAMPING - EXIT 24
KOA
REPLACE
LGC49-24NB
LM 22.12 NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTIN
6-22-12

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	27	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

INTERSTATE 49

LM 23.50

LM 23.00

LM 22.50

MAINTAIN
LM 23.22 SB

REPLACE
SS49-23+06SB

REPLACE
SS49-23+00SB

REPLACE
SS49-22+94SB

SLOWER TRAFFIC KEEP RIGHT

MILE 2 3

REPLACE
SS49-23+00SB

REMOVE BRIDGE MT.
BM540-I7-07

INSTALL
BM-049-I7-04

REPLACE
BM49-24-INB
LM 22.39 NB

REPLACE
ML49-24-INB
LM 22.68 NB

REPLACE
ML49-24-2NB
LM 23.45 NB

REPLACE
EXIT24-NB
LM 23.55 NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-12
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		0225	28	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

REPLACE
ML49-24-2SB
LM 24.03 SB

REPLACE
EXIT24-SB
LM 23.95 SB

EXIT 24

EXIT 282 Rudy

MAINTAIN
LM 23.67 SB

REPLACE
SS49-24+00SB

MILE 24

INTERSTATE 49

LM 24.00

LM 24.50

MILE 24

REPLACE
SS49-24+00NB

INTERSTATE 49 NORTH

MAINTAIN
LM 24.25 NB

SPEED LIMIT 70

REPLACE
SS49-24+42NB

SLOWER TRAFFIC KEEP RIGHT

REPLACE
SS49-24+53NB

INTERSTATE 49

REPLACE
SS49-23+83NB

282

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-10
JOSEPH A. SARTINI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02215	29	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

REPLACE
ML49-24-ISB
LM 24.98 SB

EXIT 24
282
Rudy
1 MILE

REPLACE
SS49-25+00SB

MILE 25

REPLACE
LCG49-24SB
LM 25.29 SB

GAS - EXIT 24
PHILLIPS 66

CAMPING - EXIT 24
ALMA RV

REPLACE
LF49-24SB
LM 25.46 SB

FOOD - EXIT 24
RED HOG BBQ

REPLACE 3 EACH
SS49-25+67SB
SS49-25+71SB
SS49-25+74SB

INTERSTATE 49

LM 25.50

LM 25.00

INTERSTATE 49

AUTHORIZED VEHICLES ONLY

UNAUTHORIZED VEHICLES ONLY

REPLACE
SS49-25+75

MILE 25

REPLACE
SS49-25+00NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-18
JOSEPH A. SARTINI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		01225	30	94

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

REPLACE 3 EACH
SS49-25+78SB
SS49-25+82SB
SS49-25+86SB

REPLACE
SS49-26+00SB

MILE 26

282

INTERSTATE 49

LM 26.00

REPLACE
SS49-26+00NB

MILE 26

LM 26.50

INTERSTATE 49

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-26+73NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-18
JOSEPH A. SARTELLI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		00225	31	194

② SIGN PLACEMENT SHEET

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-11
JOSEPH A. SARTHI

REPLACE
SS49-26+85SB

MILE 27

LM 27.00

INTERSTATE 49

MILE 27

REPLACE
SS49-26+85NB

REPLACE
SS49-27+40SB

BRIDGE ICES BEFORE ROAD

LM 27.50

INTERSTATE 49

282

MAINTAIN
LM 27.96 SB

Rudy 4
Jct I-40 8

REPLACE
SS49-28+00SB

MILE 28

- EXIT 29

- EXIT 29

REMOVE
LM 27.76 NB

Lake Ft Smith
State Park
EXIT 29

LM 28.00

MAINTAIN
LM 27.90 NB

REPLACE
SS49-28+00NB

MILE 28

0 200 400 600 ft.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	32	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-18
JOSEPH A. SARTIN

INTERSTATE 49

INSTALL
SS49-28+30SB

SLOWER TRAFFIC KEEP RIGHT

REPLACE
SS49-28+32

UNAUTHORIZED VEHICLES ONLY
AUTHORIZED VEHICLES ONLY

REPLACE
SS49-28+47SB

SPEED LIMIT 70

REPLACE
SS49-28+68SB

SOUTH INTERSTATE 49

LM 28.50

Mountainburg
1 MILE
282
EXIT 29

REPLACE
ML49-29-2NB
LM 28.08 NB

Boston Mtns Scenic Loop
EXIT 29
71

REPLACE
ML49-29-3NB
LM 28.23 NB

282

REPLACE
SS49-29+00SB

MILE 29

LM 29.00

INTERSTATE 49

MILE 29

REPLACE
SS49-29+00NB

POST - OK

Mountainburg
282
EXIT 29

REPLACE
ML49-29-4NB
LM 29.06 NB

EXIT 29

REPLACE
EXIT29-NB
LM 29.15 NB

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	33	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

REPLACE
SS49-29+27SB

INTERSTATE 49

MAINTAIN
LM 29.53 SB

BRIDGE ICES BEFORE ROAD

REPLACE
EXIT29-SB
LM 29.66 SB

EXIT 29

REPLACE
ML49-29-4SB
LM 29.72 SB

EXIT 29 282 Mountainburg

REPLACE
SS49-30+00SB

MILE 30

INTERSTATE 49

POST - OK

LM 29.50

LM 30.00

ICES BRIDGE ROAD

MAINTAIN
LM 29.17 NB

REPLACE
SS49-29+56NB

REPLACE
SS49-29+94NB

MILE 30

REPLACE
SS49-30+00NB

INTERSTATE 49 NORTH

MAINTAIN
LM 30.14 NB

SPEED LIMIT 70

REPLACE
SS49-30+35NB

282

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-15
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		01225	34	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

REPLACE
ML49-29-2SB
LM 30.90 SB

EXIT 29
282
Mountainburg
1 MILE

MAINTAIN
LM 31.11 SB

Lake Ft Smith
State Park
EXIT 29

REMOVE
LM 31.27 SB

- EXIT 29
- EXIT 29

REPLACE
ML49-29-3SB
LM 30.52 SB

Boston Mtns
Scenic Loop
EXIT 29
71

MAINTAIN
LM 30.94 SB

BRIDGE
ICES BEFORE
ROAD

REPLACE
SS49-31+00SB

MILE
3
1

INTERSTATE
49

LM 30.50

LM 31.00

BRIDGE
ICES BEFORE
ROAD

MAINTAIN
LM 30.47 NB

SLOWER
TRAFFIC
KEEP
RIGHT

REPLACE
SS49-30+57NB

MILE
3
1

REPLACE
SS49-31+00NB

INTERSTATE
49

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

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02225	35	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

LM 31.50

INTERSTATE 49

REPLACE
SS49-29+95SB
AUTHORIZED VEHICLES ONLY

REPLACE
SS49-32+00SB
MILE 32

REPLACE 8 EACH
SS49-32+08SB SS49-32+19SB
SS49-32+11SB SS49-32+22SB
SS49-32+14SB SS49-32+25SB
SS49-32+16SB SS49-32+28SB

MAINTAIN
LM 32.40 SB

LM 32.00

INTERSTATE 49

REPLACE
SS49-29+95NB
AUTHORIZED VEHICLES ONLY

REPLACE
SS49-32+00NB
MILE 32

REPLACE 8 EACH
SS49-32+02NB SS49-32+22NB
SS49-32+06NB SS49-32+26NB
SS49-32+10NB SS49-32+30NB
SS49-32+14NB
SS49-32+18NB

BRIDGE ICES BEFORE ROAD

MAINTAIN
LM 32.36 NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
12-21-19
JOSEPH A. SARTINI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02225	36	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

REPLACE
SS49-33+00SB

MILE 33

MAINTAIN
LM 33.02 SB

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-33+21SB

SLOWER TRAFFIC KEEP RIGHT

REPLACE
SS49-33+32SB

SPEED LIMIT 70

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-32+70SB

LM 33.00

INTERSTATE 49

REPLACE
SS49-33+55SB

SOUTH INTERSTATE 49

LM 32.50

MILE 33

REPLACE
SS49-33+00NB

BRIDGE ICES BEFORE ROAD

MAINTAIN
LM 32.68 NB

Boston Mtns Scenic Loop
71
EXIT 34

REPLACE
ML49-34-2NB
LM 32.94 NB

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-33+26NB

LM 33.50

INTERSTATE 49

Chester 1 MILE
282
EXIT 34

MAINTAIN
LM 32.60 NB

- EXIT 34

- EXIT 34

REMOVE
LM 32.45 NB

71

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-12
JOSEPH A. SARTINI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		0225	37	194

② SIGN PLACEMENT SHEET

INTERSTATE 49

MAINTAIN
LM 33.58 NB

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-33+58SB

BRIDGE ICES BEFORE ROAD

Chester
282
EXIT 34

REPLACE
ML49-34-3NB
LM 33.64 NB

MAINTAIN
LM 34.02 SB

REPLACE
SS49-34+00SB

MILE 3 4

BRIDGE ICES BEFORE ROAD

POST - OK

LM 34.00

REPLACE
SS49-34+05SB

EXIT 34

REPLACE
EXIT34-SB
LM 34.21 SB

EXIT 34

282

Chester

REPLACE
ML49-34-5SB
LM 34.36 SB

INTERSTATE 49

282

INSTALL
EXIT34-NB-AUX

25 MPH

EXIT 34

REPLACE
EXIT34-NB
LM 33.91 NB

MILE 3 4

REPLACE
SS49-34+00NB

REPLACE
SS49-34+02NB

LM 34.50

NORTH
INTERSTATE 49

MAINTAIN
LM 34.62 NB

SPEED LIMIT 70

REPLACE
SS49-34+82NB

SLOWER TRAFFIC KEEP RIGHT

REPLACE
SS49-34+92NB

0 200 400 600 ft.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-18
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		002215	32	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

REPLACE
ML49-34-3SB
LM 35.42 SB

EXIT 34
282
Chester
1 MILE

REMOVE
LM 35.59 SB

- EXIT 34
- EXIT 34

INTERSTATE 49

MAINTAIN
LM 35.10 SB

Boston Mtns
Scenic Loop
EXIT 34
71

LM 35.50

REPLACE
SS49-35+00SB

MILE 3 5

INTERSTATE 49

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-35+60NB

LM 35.00

West Fork 19
Fayetteville 31

MAINTAIN
LM 34.99 NB

MILE 3 5

REPLACE
SS49-35+00NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTIN
6-11-14

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02215	39	196

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

REPLACE 9 EACH
SS49-36+63SB
SS49-36+67SB
SS49-36+71SB
SS49-36+75SB
SS49-36+79SB
SS49-36+83SB
SS49-36+87SB
SS49-36+91SB
SS49-36+95SB

REPLACE 7 EACH
SS49-36+65NB
SS49-36+69NB
SS49-36+74NB
SS49-36+78NB
SS49-36+82NB
SS49-36+86NB
SS49-36+90NB

LM 36.50

REPLACE
SS49-36+05SB
BRIDGE ICES BEFORE ROAD

INSTALL
SS49-36+00SB
MILE 36

LM 36.00

INSTALL
SS49-36+00NB
MILE 35

INTERSTATE 49

INTERSTATE 49

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
12-22-15
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	40	194

(2) SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

REPLACE
SS49-36+99SB

REPLACE
SS49-37+00SB

MILE 37

REPLACE
SS49-37+12SB

LM 37.00

INTERSTATE 49

LM 37.50

REPLACE
SS49-37+75SB

AUTHORIZED VEHICLES ONLY

MAINTAIN
LM 37.64 SB

BRIDGE ICES BEFORE ROAD

REPLACE 5 EACH
SS49-37+84SB
SS49-37+88SB
SS49-37+91SB
SS49-37+95SB
SS49-37+99SB

MILE 37

REPLACE
SS49-37+00NB

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-37+12NB

REPLACE
SS49-36+95NB
SS49-36+99NB

REPLACE
SS49-37+64NB

AUTHORIZED VEHICLES ONLY

REPLACE
SS49-37+75NB

INTERSTATE 49

NEXT 3 MILES

SLOW MOVING VEHICLES

REPLACE
SS49-37+69NB-A
SS49-37+69NB-B

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-18
JOSEPH A. SARTINI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		01225	41	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

REPLACE
SS49-39+11SB

MILE 39

INTERSTATE 49

LM 39.00

MILE 39

REPLACE
SS49-39+12NB

REPLACE 3 EACH
SS49-38+05SB
SS49-38+09SB
SS49-38+12SB

REPLACE
SS49-38+00SB

MILE 38

LM 38.00

LM 38.50

INTERSTATE 49

MILE 38

REPLACE
SS49-38+00NB

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-38+72NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
4-22-16
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02225	42	144

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

REPLACE
ML49-34-6SB
LM 39.96 SB

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

REPLACE
SS49-40+00SB

MILE 40

INTERSTATE 49

LM 40.00

MILE 40

INSTALL
SS49-40+00NB

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

INSTALL
ML49-45-5NB
LM 40.10 NB

MAINTAIN
LM 39.24 SB

BRIDGE ICES BEFORE ROAD

LM 39.50

SLOWER TRAFFIC KEEP RIGHT

REPLACE
SS49-39+71NB

INTERSTATE 49

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-18
JOSEPH A. SARTAIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	43	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

Crawford Co

MAINTAIN
LM 40.25 SB

LM 40.25

INTERSTATE 49

LM 40.50

Washington Co

MAINTAIN
LM 40.26 NB

DMS

EXISTING - MAINTAINED BY D4

REPLACE
SS49-41+00SB

MILE 41

LM 41.00

REPLACE
SS49-41+00NB

MILE 41

REPLACE
SS49-41+19

UNAUTHORIZED VEHICLES ONLY

AUTHORIZED VEHICLES ONLY

INTERSTATE 49

TUNNEL

BOBBY HOPPER TUNNEL

REPLACE
ML49-45-3NB
LM 41.22 NB

WASHINGTON COUNTY
CRAWFORD COUNTY

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

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	44	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

EXISTING - MAINTAINED BY D4

DMS

REPLACE
SS49-42+00SB

MILE 42

LM 42.00

INTERSTATE 49

REPLACE
ML49-34-ISB
LM 41.80 SB

BOBBY HOPPER TUNNEL

TUNNEL

LM 41.50

INTERSTATE 49

INSTALL
SS49-42+00NB

MILE 42

BRIDGE ICES BEFORE ROAD

MAINTAIN
LM 41.90 NB

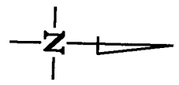
REPLACE 6 EACH
SS49-41+52NB
SS49-41+55NB
SS49-41+58NB
SS49-41+62NB
SS49-41+66NB
SS49-41+70NB

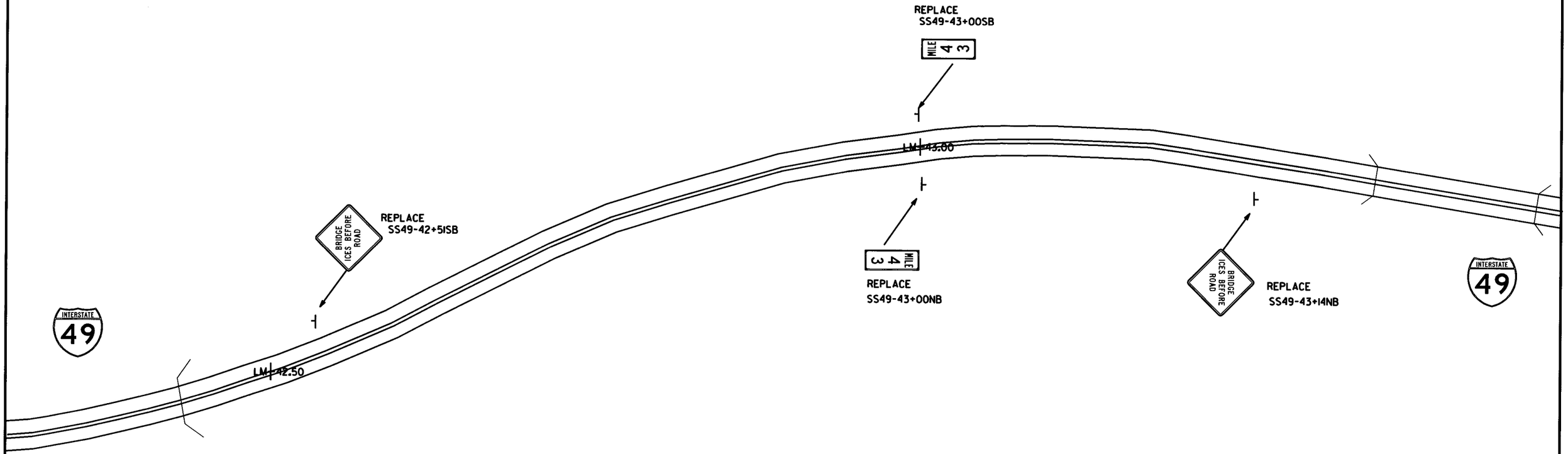
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-12
JOSEPH A. SARTINI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	45	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.





STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-18
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	46	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

REPLACE
SS49-43+54SB

BRIDGE ICES BEFORE ROAD

INTERSTATE 49

LM 43.50

REPLACE
SS49-43+84SB

SLOWER TRAFFIC KEEP RIGHT

REPLACE
SS49-43+97SB

SPEED LIMIT 70

INSTALL
SS49-43+98SB

MILE 4 4

REPLACE
SS49-44+39SB

BRIDGE ICES BEFORE ROAD

MAINTAIN
LM 44.33 SB

SOUTH INTERSTATE 49

INTERSTATE 49

LM 44.00

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-43+90NB

MILE 4 4 4

INSTALL
SS49-43+98NB

FOOD - EXIT 45

EXIT 45

MAINTAIN
LM 43.44 NB

Devils Den State Park
EXITS 45 & 53

RV TRAILERS LONGER THAN 26 FT USE EXIT 53

MAINTAIN
LM 43.56 NB

EXIT 45
Winslow 1 MILE
74

REPLACE
ML49-45-4NB
LM 43.77 NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-19
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	47	194
				②	SIGN PLACEMENT SHEET			

0 200 400 600 ft.

MAINTAIN
LM 44.85 SB

INSTALL
SS49-45+00SB
MILE 45

LM 45.00

INSTALL
SS49-45+00NB
MILE 45

REPLACE
SS49-44+52SB

EXIT 45

REPLACE
EXIT45-NB
LM 44.63 NB

INTERSTATE 49

EXIT 45
74
Winslow

REPLACE
ML49-45-6NB
LM 44.55 NB

74

REPLACE
EXIT45-SB
LM 45.41 SB

EXIT 45
74
Winslow

REPLACE
ML49-45-3SB
LM 45.49 SB

LM 45.50

REPLACE
SS49-45+33NB

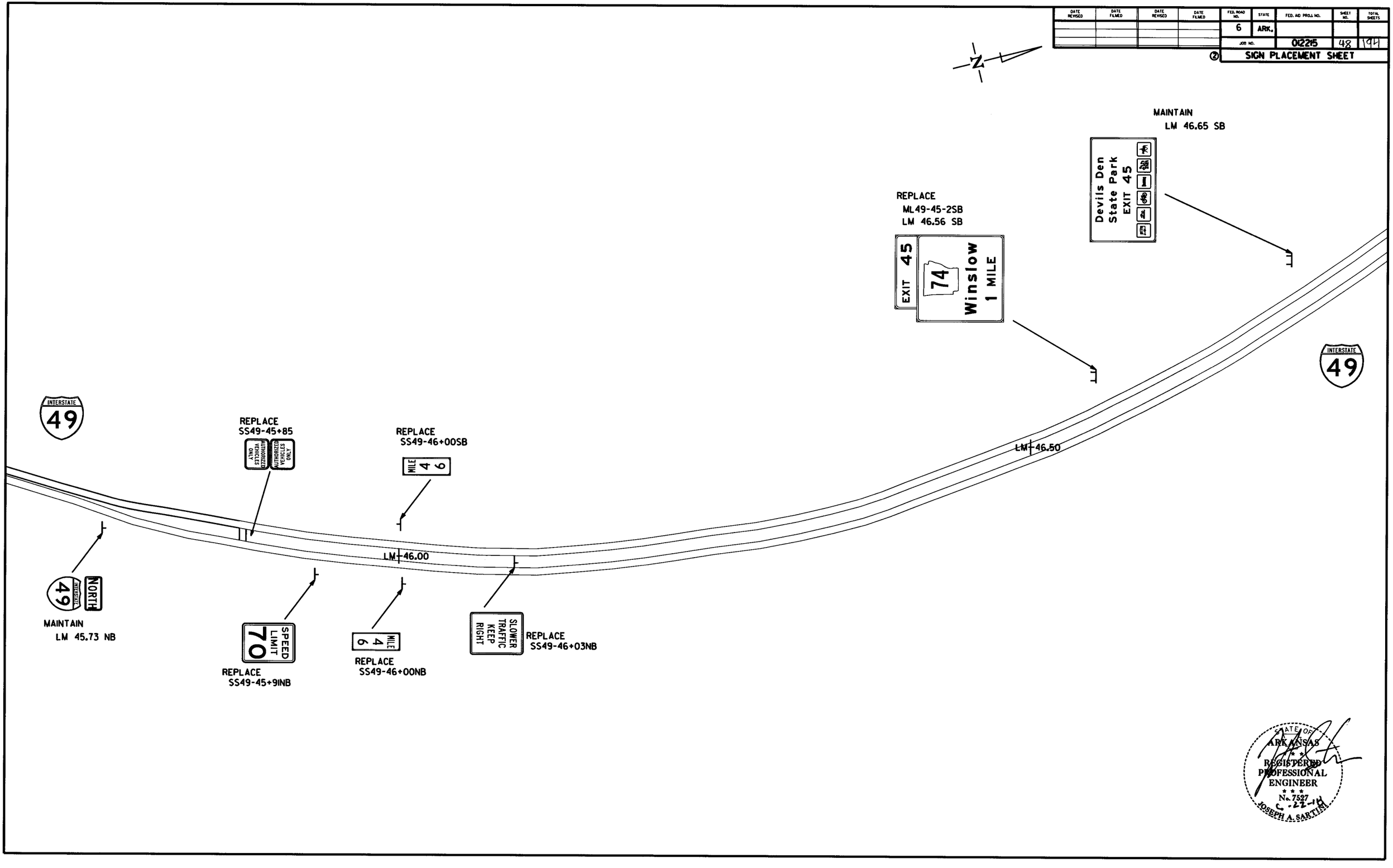
INTERSTATE 49

REPLACE
SS49-45+60NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTIN
6-22-18

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		01225	48	194

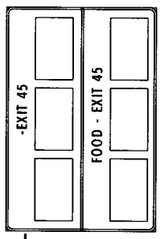
② SIGN PLACEMENT SHEET



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
11-22-11
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	49	194

② SIGN PLACEMENT SHEET



MAINTAIN
LM 46.92 SB

REPLACE 9 EACH
WI-8
SS49-46+98SB SS49-47+23SB
SS49-47+08SB SS49-47+27SB
SS49-47+11SB SS49-47+30SB
SS49-47+15SB SS49-47+34SB
SS49-47+19SB

REPLACE
SS49-47+00SB

MILE 47

LM 47.00

REPLACE
SS49-47+00NB

INTERSTATE 49

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-47+24NB

LM 47.50

MAINTAIN
LM 47.53 SB

BRIDGE ICES BEFORE ROAD

MAINTAIN
LM 47.60 NB

REPLACE 10 EACH
WI-8
SS49-46+95NB SS49-47+14NB
SS49-46+99NB SS49-47+18NB
SS49-47+03NB SS49-47+21NB
SS49-47+06NB SS49-47+25NB
SS49-47+10NB SS49-47+29NB

0 200 400 600 ft.

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

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	50	94

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

REPLACE
SS49-48+00SB

MILE 48

REPLACE
SS49-48+06SB

BRIDGE ICES BEFORE ROAD

LM 48.00

INTERSTATE 49

MILE 48

REPLACE
SS49-48+00NB

LM 48.50

REPLACE
SS49-49+00SB

MILE 49

LM 49.00

BRIDGE ICES BEFORE ROAD

MILE 49

REPLACE
SS49-49+00NB

REPLACE
SS49-48+85NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-12
JOSEPH A. SARTIN III

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	51	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

MAINTAIN
LM 49.24 SB

BRIDGE ICES BEFORE ROAD

INTERSTATE 49

LM 49.50

REPLACE
SS49-50+00SB

MILE 50

INTERSTATE 49

LM 50.00

MILE 50

REPLACE
SS49-50+00NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
12-12-18
JOSEPH A. SARTINI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	52	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

REPLACE
SS49-51+00SB

MILE 5 —

LM 51.00

INTERSTATE 49

— 5 MILE

REPLACE
SS49-51+00NB

LM 50.50

INTERSTATE 49

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-18
JOSEPH A. SARTINI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	53	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

REPLACE
ML49-45-ISB
LM 51.92 SB

Winslow 13
Alma 35
Fort Smith 41

SLOWER TRAFFIC KEEP RIGHT

MAINTAIN
LM 51.98 SB

N

REPLACE
SS49-51+83SB

BRIDGE ICES BEFORE ROAD

POST-OK

INSTALL
SS49-52+00SB

MILE 5 2

SPEED LIMIT 70

REPLACE
SS49-52+10SB

REPLACE
SS49-51+51

AUTHORIZED VEHICLES ONLY | BUZZER WHEN OCCUPIED | STATE VEHICLES ONLY

LM 52.00

INTERSTATE 49

LM 51.50

5 2 MILE

REPLACE
SS49-52+00NB

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-51+51NB

REPLACE
LGX49-53NB
LM 51.11 NB

HARPS | GAS - EXIT 53 | - EXIT 53

Devils Den State Park EXIT 53

MAINTAIN
LM 51.29 NB

EXIT 53 | West Fork 1 MILE | 170

REPLACE
ML49-53-2NB
LM 51.56 NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
4-22-15
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	54	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

170

REPLACE
SS49-52+80SB

REPLACE
SS49-53+00SB

MILE 5 3

LM 53.00

REPLACE
EXIT53-SB
LM 53.27 SB

EXIT 53

REPLACE
ML49-53-3SB
LM 53.36 SB

EXIT 53
170
West Fork

MAINTAIN
LM 52.31 SB

SOUTH INTERSTATE 49

LM 52.50

INTERSTATE 49

MILE 5 3

REPLACE
SS49-53+00NB

REPLACE
SS49-53+05NB

INTERSTATE 49

EXIT 53

REPLACE
EXIT53-NB
LM 52.66 NB

West Fork
170
EXIT 53

REPLACE
ML49-53-3NB
LM 52.58 NB

156

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-18
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	55	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

REPLACE
ML49-53-2SB
LM 54.33 SB

EXIT 53
170
West Fork
1 MILE

INSTALL
SS49-54+00SB

MILE 5 4

MAINTAIN
LM 54.02 SB

BRIDGE ICES BEFORE ROAD

INTERSTATE 49

INTERSTATE 49

LM 53.50

LM 54.00

NORTH
INTERSTATE 49

MAINTAIN
LM 53.44 NB

SPEED LIMIT 70

REPLACE
SS49-53+63NB

SLOWER TRAFFIC KEEP RIGHT

INSTALL
SS49-53+70NB

BRIDGE ICES BEFORE ROAD

MAINTAIN
LM 53.78 NB

MILE 5 4

REPLACE
SS49-54+00NB

REPLACE 2 EACH
SS49-54+39NB
SS49-54+42NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
12-22-18
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	56	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

MAINTAIN
LM 54.51 SB

Devils Den
State Park
EXITS 53 & 45

RV TRAILERS
LONGER THAN 26 FT
USE EXIT 53

REPLACE
LGX49-53-SB
LM 54.62 SB

GAS - EXIT 53

HARPS

- EXIT 53

INTERSTATE 49

LM 54.50

REPLACE 4 EACH

SS49-54+46NB
SS49-54+50NB
SS49-54+54NB
SS49-54+58NB

REPLACE
SS49-55+00SB

MILE 55

LM 55.00

MILE 55

REPLACE
SS49-55+00NB

INTERSTATE 49

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-12-18
JOSEPH A. BARTLETT

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	57	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

INTERSTATE 49

REPLACE
SS49-56+00SB

MILE 56

LM 56.00

MILE 55

REPLACE
SS49-56+00NB

REPLACE
SS49-55+50

AUTHORIZED VEHICLES ONLY

UNAUTHORIZED VEHICLES ONLY

INTERSTATE 49

REPLACE
LGF49-58NB

McDONALD'S

SONIC

FOOD - EXIT 58

PHILLIPS 66

GAS - EXIT 58

LM 56.31NB

- EXIT 58

REPLACE
LX49-58NB
LM 56.48 NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-10
JOSEPH A. SARTIN

0 200 400 600 ft.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	58	194

② SIGN PLACEMENT SHEET

REPLACE 6 EACH

SS49-56+53SB
SS49-56+57SB
SS49-56+61SB
SS49-56+64SB
SS49-56+68SB
SS49-56+72SB

REPLACE
SS49-56+77SB

REPLACE
SS49-57+00SB

MILE 5 7

REPLACE
SS49-57+17SB

SLOWER TRAFFIC KEEP RIGHT

REPLACE
SS49-57+29SB

SPEED LIMIT 70

MAINTAIN
LM 57.48 SB

SOUTH INTERSTATE 49

LM 57.50

INTERSTATE 49

LM 57.00

LM 56.50

INTERSTATE 49

REPLACE 3 EACH

SS49-56+50NB
SS49-56+54NB
SS49-56+58NB

Greenland 1 MILE EXIT 58

REPLACE
ML49-58-INB
LM 56.64 NB

MILE 5 7

REPLACE
SS49-57+00NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
12-22-08
JOSEPH A. SARTIN

0 200 400 600 ft.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	59	194

② SIGN PLACEMENT SHEET

N

265

REPLACE
ML49-58-4SB
LM 58.31 SB

EXIT 58 Greenland

REPLACE
EXIT58-SB
LM 58.22 SB

EXIT 58

MAINTAIN
LM 58.12 SB

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-58+04SB

MILE 58

REPLACE
SS49-57+90SB

INTERSTATE 49

INTERSTATE 49 NORTH

LM 58.50

LM 58.00

MAINTAIN
LM 58.57 NB

ATTRACTION-EXIT 60
FOOTHILLS HISTORIC SQUARE

REPLACE
LXA-60NB
LM 58.52 NB

REPLACE
SS49-58+17NB

MILE 58

REPLACE
SS49-58+04NB

BRIDGE ICES BEFORE ROAD

MAINTAIN
LM 57.88 NB

EXIT 58

REPLACE
EXIT58-NB
LM 57.78 NB

Greenland EXIT 58

REPLACE
ML49-58-2NB
LM 57.69 NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-13
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	60	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

265

INTERSTATE 49

LM 59.00

LM 59.50

REPLACE
SS49-59+00SB

MILE 5 9

REPLACE
LGF49-58SB
LM 59.04 SB

GAS - EXIT 58 | PHILLIPS 66

FOOD - EXIT 58 | SONIC | MCDONALD'S

REPLACE
ML49-58-3SB
LM 59.33 SB

EXIT 58
Greenland
1 MILE

TM-049-72-12
INSTALL OVERHEAD STRUCTURE
WITH T-MOUNTED DMS
LM 59+40

DYNAMIC MESSAGE SIGN

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

CLEARANCE OF NOT LESS THAT 17'6" OVER THE ENTIRE WIDTH OF THE PAVEMENT AND SHOULDERS

EXISTING SHOULDER

EXISTING SHOULDER

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

C/L
75' GRASS MEDIAN

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

MAINTAIN
LM 59.50 SB

- EXIT 58

INTERSTATE 49

SPEED LIMIT 70

REPLACE
SS49-58+76NB

MILE 5 9

REPLACE
SS49-59+00NB

SLOWER TRAFFIC KEEP RIGHT

REPLACE
SS49-59+04NB

Fayetteville
NEXT 6 EXITS

REPLACE
ML49-60-1NB
LM 58.83 NB

University of Arkansas
EXIT 60

MAINTAIN
LM 58.93 NB

112 265
Razorback Rd
Cato Springs Rd
1 MILE
EXIT 60

REPLACE
ML49-60-3NB
LM 59.34 NB

SOUTHGATE RV PARK

CAMPING - EXIT 60

LODGING - EXIT 60

REPLACE
LLC49-60NB
LM 59.48 NB

71
Boston Mtns
Scenic Loop
EXIT 60

REPLACE
ML49-60-4NB
LM 59.61 NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-12
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	61	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

B INSTALL

A INSTALL

OH-049-72-13
INSTALL OVERHEAD STRUCTURE
LM 60+21 NB

EXIT 62
WEST 62 EAST 180
Martin Luther King Jr Blvd
1¼ MILE

EXIT 60
112 265
Razorback Rd
Cato Springs Rd

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

25' GRASS MEDIAN | 5' SHOULDER | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 10' SHOULDER

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

265

West Fork 8
Alma 43
Fort Smith 49

REPLACE
ML49-58+2SB
LM 59.65 SB

MAINTAIN
LM 59.96 SB

John Paul HAMMERSCHMIDT Highway

MAINTAIN
LM 59.74 SB

SLOWER TRAFFIC KEEP RIGHT

REPLACE
SS49-59+84SB

SPEED LIMIT 70

REPLACE
SS49-60+03SB

SOUTH 49

REPLACE
SS49-60+00SB

MILE 60

REPLACE
SS49-60+00NB

MILE 60

INTERSTATE 49

REMOVE
LM 59.76 NB

Natural State Golf Trail EXIT 60

INSTALL
ML49-60-6NB
LM 59.80 NB

Natural State Golf Trail
Fayetteville Executive Airport
EXIT 60

Fayetteville Executive Airport
EXIT 60

REMOVE
LM 59.88 NB

MAINTAIN
LM 60.05 NB

John Paul HAMMERSCHMIDT Highway

112 265
Razorback Rd
Cato Springs Rd
EXIT 60

REMOVE
LM 60.21 NB

LM 60.00

MAINTAIN
LM 60.48 SB

LM 60.50

EXIT 60

REPLACE
EXIT60-NB
LM 60.34 NB

MAINTAIN
LM 60.50 NB

BRIDGE ICES BEFORE ROAD

WEST 62 EAST 180
Martin Luther King Jr Blvd
1 MILE
EXIT 62

REMOVE
LM 60.56 NB

REPLACE
EXIT60-SB
LM 60.80 SB

EXIT 60

REPLACE
SS49-60+76SB

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-60+72SB

SPEED LIMIT 70

INTERSTATE 49

SPEED LIMIT 65

REPLACE
SS49-60+85NB-A
SS49-60+85NB-B

REPLACE
SS49-60+92NB

REDUCED SPEED AHEAD

REPLACE WITH

SPEED LIMIT 65

SS49-60+75NB-A
SS49-60+75NB-B

71

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-18
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	62	194

② SIGN PLACEMENT SHEET

REPLACE
ML49-60-2SB
LM 60.96 SB

REPLACE
ML49-60-1SB
LM 61.04 SB

REMOVE
LM 61.14 SB

REPLACE
EXIT61-SB
LM 61.24 SB

REPLACE
SS49-61+00SB

REMOVE
LM 61.34 SB

OH-049-72-14
INSTALL OVERHEAD STRUCTURE
LM 61+38 SB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

INSTALL (B) EXIT 60 — 112 / 265 — Razorback Rd / Cato Springs Rd — 1/2 MILE

INSTALL (A) EXIT 61 — 71 — Fayetteville

15' GRASS MEDIAN | 4' SHOULDER | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 11' SHOULDER

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

REMOVE
LM 61.91 SB

REPLACE
ML49-61-1SB
LM 61.61 SB

MAINTAIN
LM 61.58 SB

MAINTAIN
LM 61.68 SB

REPLACE
SS49-61+75SB

INTERSTATE 49

LM 61.00

LM 61.50

REPLACE
SS49-61+00NB

REPLACE
ML49-62-2NB
LM 61.25 NB

REPLACE
SS49-61+33NB

MAINTAIN
LM 61.36 NB

REPLACE
LL49-62NB
LM 61.40 NB

REPLACE
ML49-62-3NB
LM 61.45 NB

REPLACE
LF49-62NB
LM 61.52 NB

REPLACE
LGA49-62NB
LM 61.64 NB

REMOVE
LM 61.74 NB

REPLACE
EXIT62-NB
EXIT62-NB-AUX
LM 61.85 NB

OH-049-72-15
INSTALL OVERHEAD STRUCTURE
LM 61+74 NB

INSTALL (B) EXIT 64 — WEST 16 / EAST 112 — Wedington Dr — 1 3/4 MILE

INSTALL (A) EXIT 62 — WEST 62 / EAST 180 — Martin Luther King Jr Blvd

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

15' GRASS MEDIAN | 5' SHOULDER | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 11' SHOULDER

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

INSTALL
SS-49-61+74NB

EXIT 10 MPH

0 200 400 600 ft.

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

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	63	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

62

OH-049-72-16
INSTALL OVERHEAD STRUCTURE
LM 62+68 SB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

INSTALL (A)
EXIT 62
EAST 180 WEST 62
Martin Luther King Jr Blvd

INSTALL (B)
EXIT 61
71
Fayetteville
1 MILE

EXIT 45 MPH
INSTALL
SS-49-62+68SB

7'6" SHOULDER | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 11' SHOULDER

BARRIER WALL
FOUNDATION AND BARRIER TRANSITION REQ'D

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

Fayetteville Executive Airport EXIT 61

REPLACE
ML49-61-2SB
LM 62.12 SB

REPLACE
LGA49-62SB

GAS - EXIT 62: MURPHY USA, CITGO, KUM & GO
ATTRACTION - EXIT 62: INFO VISITOR, CLINTON HOUSE, TERRA STUDIOS

LM 62.95 SB

REPLACE
ML49-62-3SB
LM 62.82 SB

Prairie Grove Battlefield Historic State Park
Fayetteville Natl Cemetery
EXIT 62

POST - OK

REPLACE
EXIT62-SB
LM 62.56 SB

EXIT 62

REMOVE
LM 62.68 SB

EXIT 62 EAST 180 WEST 62 Martin Luther King Jr Blvd

REPLACE
SS49-62+75SB-A
SS49-62+75SB-B

REPLACE
SS49-62+89SB-A
SS49-62+89SB-B

LEFT LANE ENDS

REPLACE
SS49-61+99SB

REPLACE
SS49-62+00SB

MILE 6 2

REPLACE
SS49-62+18SB

BRIDGE ICES BEFORE ROAD

INTERSTATE 49

LM 62.50

LM 62.00

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-61+92NB

MILE 6 2

REPLACE
SS49-62+00NB

REMOVE
LM 62.18 NB

MAINTAIN
LM 62.42 NB

INTERSTATE 49 NORTH

MAINTAIN
LM 62.64 NB

Wedington Dr ¾ MILE
WEST 16 EAST 112
EXIT 64

MAINTAIN
LM 62.88 NB

SPEED LIMIT 65

REPLACE
SS49-62+93NB

REPLACE
SS49-62+98NB

180

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTIN
6-22-16

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	64	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

REPLACE
LF49-62SB
LM 63.08 SB

FOOD - EXIT 62
TACO BELL
WENDYS
WAFFLE HOUSE
MCDONALDS
ARBYS

MAINTAIN
LM 63.21 SB

LODGING - EXIT 62
HAMPTON INN
BAYMONT INN
SUPER 8
DAYS INN
ECONOLODGE
BEST WESTERN

REPLACE
SS49-63+27SB

SOUTH
INTERSTATE
49

REPLACE
ML49-62-2SB
LM 63.38 SB

Farmington
EXIT 62

REPLACE
SS49-63+40SB

SPEED LIMIT
65

MAINTAIN
LM 63.48 SB

EXIT 62
EAST 180
WEST 62
Martin Luther King Jr Blvd
1 MILE

MAINTAIN
LM 63.75 SB

REPLACE
SS49-63+81SB

REPLACE
EXIT64-SB
LM 64.01 SB

EXIT
64

INSTALL
SS49-64+00SB

MILE
6
4

LM 63.50

LM 64.00

16

REMOVE
LM 63.56 NB

WEST 16 112S EAST
Wedington Dr
EXIT 64

EXIT
64

REPLACE
EXIT64-NB
LM 63.66 NB

MAINTAIN
LM 63.94 NB

MILE
6
4

INSTALL
SS49-64+00NB

INTERSTATE
49

MAINTAIN
LM 63.02 SB

LEFT LANE ENDS
500 FEET

REPLACE
SS49-63+00SB

MILE
6
3

LM 63.00

MILE
6
3

REPLACE
SS49-63+00NB

INTERSTATE
49

LODGING - EXIT 64
INDEPENDENT EXPRESS
BEST WESTERN INN & SUITES
COMFORT INN & SUITES

GAS - EXIT 64
PHILLIPS 66
CASEY
CITGO

MAINTAIN
LM 63.32 NB

FOOD - EXIT 64
EUREKA PIZZA
GOGIRROS
IHOP
SUBWAY
CAFE ON MAIN
MCDONALDS

REPLACE
LF49-64NB
LM 63.17 NB

Lake Wedington
EXIT 64

VA Med Center
EXIT 64

REPLACE
ML49-64-1NB
LM 63.07 NB

OH-049-72-17
INSTALL OVERHEAD STRUCTURE
LM 63+56 NB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

INSTALL (B)

EXIT 65
Porter Rd
1 MILE

EXIT 64
WEST 16 EAST 112S
Wedington Dr

INSTALL (A)

EXIT
40
MPH

INSTALL
SS-49-63+56NB

8' SHOULDER | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 12' SHOULDER

BARRIER WALL
FOUNDATION AND BARRIER TRANSITION REQ'D

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

112
SPUR

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

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	65	194

② SIGN PLACEMENT SHEET

EXIT 64 WEST EAST 112S 16 Wedington Dr

REMOVE
LM 64.13SB

REPLACE
LGL49-64SB
LM 64.21ISB

GAS - EXIT 64: CITGO, CASEY, MURPHY
LODGING - EXIT 64: COMFORT INN & SUITES, HOMEWOOD INN & SUITES, HOLIDAY INN EXPRESS

REPLACE
LF49-64SB
LM 64.28SB

FOOD-EXIT 64: MCDONALD'S, SONIC, SUBWAYS, CARTER'S INN, IHOP, TERESA PIZZA

REMOVE
LM 64.35SB

VA Med Center
EXIT 64

REPLACE
SS49-64+38SB

SPEED LIMIT 65

REPLACE WITH
ML49-64-ISB
LM 64.42SB

Lake Wedington
EXIT 64

VA Med Center
EXIT 64

Lake Wedington
EXIT 64

REPLACE
SS49-64+47SB

SOUTH INTERSTATE 49

REMOVE
LM 64.53SB

EXIT 64 WEST EAST 112S 16 Wedington Dr
½ MILE

INTERSTATE 49

LM 64.50

MAINTAIN

PORTER ROAD

EXISTING OVERHEAD
OH-049-72-10
INSTALLED JOB BB0414

INSTALL
SS49-65+00SB
MILE 6 5

REMOVED
BB0414

EXIT 65 Porter Rd

MAINTAIN

BRIDGE ICES BEFORE ROAD

REPLACE
EXIT65-SB
EXIT65-SB-AUX
LM 64.85SB

EXIT 65 20 MPH

Porter Rd
¼ MILE
EXIT 65

REMOVE
LM 64.23NB

NORTH INTERSTATE 49

MAINTAIN
LM 64.27NB

20 MPH EXIT 65

REPLACE
EXIT65-NB
EXIT65-NB-AUX
LM 64.60NB

BRIDGE ICES BEFORE ROAD

MAINTAIN

PORTER ROAD

LM 65.00

MAINTAIN
LM 64.76NB

MILE 6 5

INSTALL
SS49-65+00NB

INTERSTATE 49

OH-049-72-18
INSTALL OVERHEAD STRUCTURE
LM 64+16 SB

INSTALL (B)
EXIT 62
EAST 180 WEST 62
Martin Luther King Jr Blvd
1½ MILE

(A) INSTALL
EXIT 64
EAST 112S WEST 16
Wedington Dr

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

EXIT 40 MPH
INSTALL
SS-49-64+16SB

7'6" SHOULDER | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 11'6" SHOULDER

BARRIER WALL
ANCHOR BOLTS INSTALLED

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

EXISTING OVERHEAD
OH-049-72-01
INSTALLED JOB BB0414

0 200 400 600 ft.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
12-22-12
JOSEPH A. SARTAIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	66	94

SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

INTERSTATE 49

EXISTING OVERHEAD
CL-049-72-11
INSTALLED JOB BB0414

MAINTAIN
SPEED LIMIT 65

MAINTAIN
SOUTH INTERSTATE 49

MAINTAIN
EXIT 67A

INSTALL
SS49-66+00SB
MILE 66

EXISTING OVERHEADS
CL-049-72-04
CL-049-72-05
INSTALLED JOB BB0414

LM 66.00

MAINTAIN
SPEED LIMIT 65

MAINTAIN
LODGING-EXIT 67A
MOTEL 6
DAYS INN
FOOD-EXIT 67A
SUBWAY
STONE MILL BRAND

MAINTAIN
GAS-EXIT 67A
SAMS CLUB

MAINTAIN
Washington Regional Medical Center
EXIT 67B

MAINTAIN
Fayetteville Business District
EXIT 67B

MAINTAIN
EXIT 67A

INSTALL
SS49-66+00NB
MILE 66

EXISTING OVERHEAD
OH-049-72-02
INSTALLED JOB BB0414

EXISTING OVERHEAD
OH-049-72-03
INSTALLED JOB BB0414

INTERSTATE 49

112

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-12
JOSEPH A. SARTINI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		01225	67	194

SIGN PLACEMENT SHEET

112

INTERSTATE 49

EXISTING OVERHEAD
OH-049-72-06
INSTALLED JOB BB0414

MAINTAIN
EXIT 67B

MAINTAIN
EXIT 67A-B

MAINTAIN
SPEED LIMIT 65

INTERSTATE 49

BRIDGE ICES BEFORE ROAD
MAINTAIN

TOWNPLACE SUITES
INN AT THE MALL
ATTRACTION-EXIT 69
LODGING-EXIT 69
MAINTAIN

MAINTAIN
EXIT 67B

MAINTAIN
EXIT 67A

INSTALL
SS49-67+00SB
MILE 67

INSTALL
SS49-67+00NB
MILE 67

LM 67.00

NORTH
INTERSTATE 49
MAINTAIN

EXISTING BRIDGE MOUNTS
BM-049-72-01 & 02
INSTALLED JOB BB0414

71B

0 200 400 600 ft.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
12-22-16
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	68	194

② SIGN PLACEMENT SHEET

MAINTAIN

University of Arkansas EXIT 67A | Washington Regional Medical Center EXIT 67B

MAINTAIN

GAS-EXIT 67A: SAMS CLUB

MAINTAIN

FOOD-EXIT 67A: STONE MILL BREAD; SUBWAY

LODGING-EXIT 67A: DAYS INN; MOTEL 6

Fayetteville NEXT 6 EXITS

REPLACE
ML49-67-ISB
LM 68.32SB

MAINTAIN

Fayetteville Business District EXIT 67B

EXISTING OVERHEAD
OH-049-72-07
INSTALLED JOB BB0414

REPLACE
SS49-68+00SB

MILE 68

BRIDGE ICES BEFORE ROAD

MAINTAIN

INTERSTATE 49

LM 68.50

LM 68.00

MILE 69

REPLACE
SS49-68+00NB

EXISTING OVERHEAD
CL-049-72-08
INSTALLED JOB BB0414

INTERSTATE 49

FOOD - EXIT 69: SMOGUN; CHICK-FIL-A

MAINTAIN

Springdale NEXT 4 EXITS

MAINTAIN

SPEED LIMIT 70

MAINTAIN

Johnson EXIT 69

REPLACE
ML49-69-INB
LM 68.13NB

TM-049-72-19
INSTALL OVERHEAD STRUCTURE
WITH T-MOUNTED DMS BACK/BACK
LM 68+28

DYNAMIC MESSAGE SIGN

DYNAMIC MESSAGE SIGN

CLEARANCE OF NOT LESS THAT 17'6" OVER THE ENTIRE WIDTH OF THE PAVEMENT AND SHOULDERS

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

BARRIER WALL
MODIFY EXISTING FOUNDATION

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTIN
6-11-13

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	69	194

② SIGN PLACEMENT SHEET

OH-049-72-20
INSTALL OVERHEAD STRUCTURE
LM 68+63 NB

INSTALL (C)

INSTALL (B)

EXIT 70
Don Tyson Pkwy
1 MILE

EXIT 69
Johnson Mill Blvd

(A) INSTALL

INTERSTATE 49 NORTH
Joplin MO

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

EXIT 40 MPH

INSTALL
SS-49-68+63NB

17'6" SHOULDER | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 11' SHOULDER

BARRIER WALL
ANCHOR BOLTS INSTALLED

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

MAINTAIN OVERHEAD STRUCTURE
OH-049-72-09
LM 69+19 SB
INSTALLED JOB BB0414

REPLACE
EXIT69-SB
LM 69.12SB

EXIT 69

INSTALL
SS49-69+00SB

MILE 69

REPLACE
SS49-69+10SB

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-68+85SB

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-68+81SB

INSTALL
SS49-68+60SB

SOUTH INTERSTATE 49

INTERSTATE 49

MAINTAIN
LM 69.29SB

Johnson EXIT 69

MAINTAIN
LM 69.44SB

FOOD - EXIT 69
CHICK-FIL-A
SHOGUN

MAINTAIN
LM 69.46SB

SOUTH INTERSTATE 49

INTERSTATE 49

LM 69.50

LM 69.00

Arvest Ballpark
EXIT 70

MAINTAIN
LM 69.62NB

SPEED LIMIT 70

MAINTAIN
LM 69.53NB

REPLACE
SS49-69+43NB

INTERSTATE 49 NORTH

ATTRACTION-EXIT 70
SASSAFRAS SPRINGS WINERY
-EXIT 70

MAINTAIN
LM 69.32NB

FOOD-EXIT 70
EUREKA PIZZA

GAS-EXIT 70
WALMART
CASEYS

REPLACE
LGF49-70NB
LM 69.47NB

REPLACE
SS49-69+06NB

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-68+52NB

Johnson Mill Blvd EXIT 69

REMOVE
LM 68.64NB

EXIT 69

REPLACE
EXIT69-NB
LM 68.76NB

ICES BEFORE ROAD

INSTALL
SS49-68+81NB

SPEED LIMIT 70

MAINTAIN
LM 68.99NB

Don Tyson Pkwy
1 MILE
EXIT 70

REMOVE
LM 68.83NB

MILE 69

INSTALL
SS49-69+00NB

0 200 400 600 ft.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-12
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	70	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

MAINTAIN
LM 69.88 SB

LODGING-EXIT 69 | INN AT THE MALL | TOWNPLACE SUITES
ATTRACTION-EXIT 69

EXIT 70 | Don Tyson Pkwy | 30 MPH
MAINTAIN

EXIT 69 | Johnson Mill Blvd | 1 MILE
MAINTAIN

EXISTING BRIDGE MT
BM-049-72-02

MAINTAIN
LM 69.94 SB

EXIT 70 | 30 MPH

INSTALL
SS49-70+00SB

MILE 7 0

REPLACE
SS49-69+83SB

REPLACE
SS49-70+23SB

SPEED LIMIT 70

REPLACE
LGF49-70SB
LM 70.27 SB

GAS-EXIT 70 | CASEYS | WALMART
FOOD-EXIT 70 | EUREKA PIZZA

MAINTAIN
LM 70.41 SB

-EXIT 70
ATTRACTION-EXIT 70 | SASSAFRAS SPRINGS WINERY

REPLACE
SS49-70+63SB

LM 70.00

LM 70.50

MILE 7 0
INSTALL
SS49-70+00NB

INTERSTATE 49

EXISTING BRIDGE MT
BM-049-72-01

Sunset Ave | 412 | 1 MILE
EXIT 72
MAINTAIN

Don Tyson Pkwy | 30 MPH
EXIT 70
MAINTAIN

EXIT 70 | 30 MPH
MAINTAIN
LM 70.11 NB

MAINTAIN
LM 70.21 NB

LODGING-EXIT 72 | SUPER 8 | HOLIDAY INN | HAMPTON INN
GAS-EXIT 72 | CITGO | PHILLIPS 66 | PILOT
MAINTAIN
LM 70.18 NB

FOOD-EXIT 72 | CRACKER BARREL | WAFFLE HOUSE | MCDONALD'S | SUBWAY | TACO BELL | DENNY'S | WENDY'S | BURGER KING
MAINTAIN
LM 70.55 NB

INTERSTATE 49

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

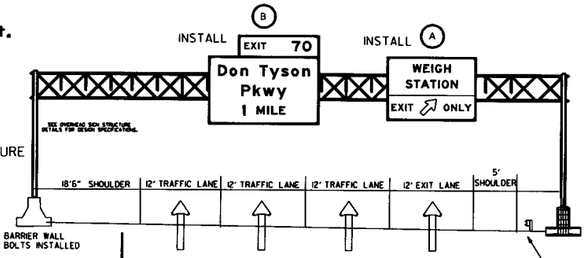
0 200 400 600 ft.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	71	194

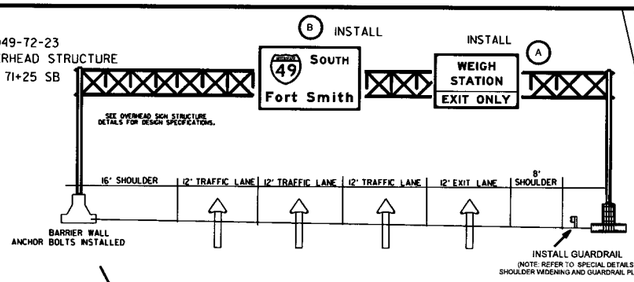
② SIGN PLACEMENT SHEET

N

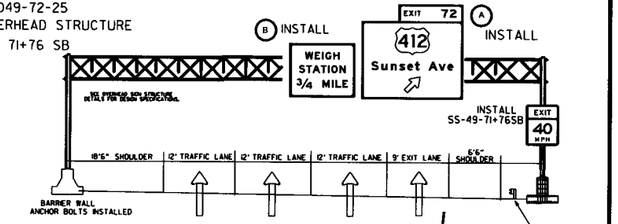
OH-049-72-21
INSTALL OVERHEAD STRUCTURE
LM 70+98 SB



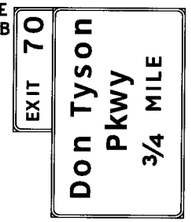
OH-049-72-23
INSTALL OVERHEAD STRUCTURE
LM 71+25 SB



OH-049-72-25
INSTALL OVERHEAD STRUCTURE
LM 71+76 SB



REMOVE
LM 70.85 SB



MAINTAIN
LM 70.72 SB

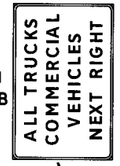
MAINTAIN
LM 70.83 SB

REMOVE
LM 71.03 SB

REPLACE
SS49-71+12SB

REMOVE
LM 71.15 SB

MAINTAIN
LM 71.36 SB



REPLACE
SS49-71+43SB

REMOVE
LM 71.56 SB

REPLACE
SS49-71+61SB

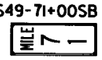
REPLACE
EXIT72-SB
LM 71.63 SB

LM 71.50

REMOVE
LM 71.79 SB

REPLACE
EXITWS-SB
LM 70.90 SB

REPLACE
SS49-71+00SB



LM 71.00

INSTALL
SS49-71+00NB

MAINTAIN
LM 71.08 NB

REMOVE
LM 71.20 NB

REPLACE
EXIT72-NB
LM 71.30 NB

REPLACE
SS49-71+34NB

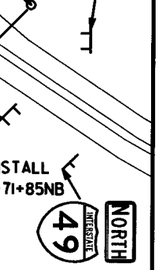
REMOVE
LM 71.37 NB

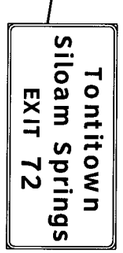
MAINTAIN

REPLACE
SS49-71+60NB

REMOVE
LM 71.60 NB

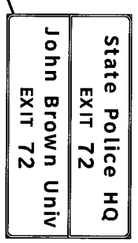
INSTALL
SS49-71+85NB





MAINTAIN
LM 70.75 NB

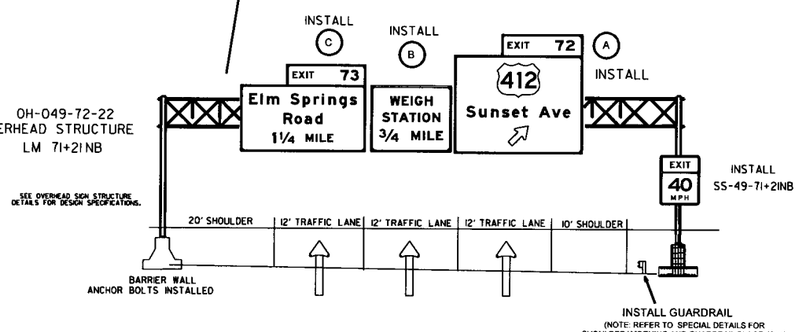
MAINTAIN
LM 70.84 NB



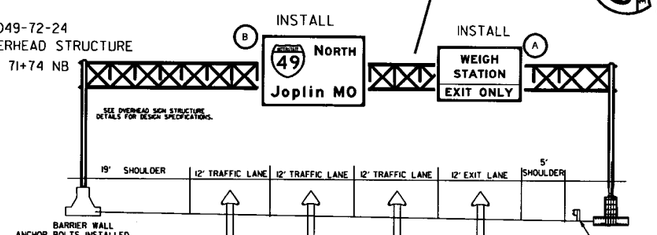
REPLACE
ML49-72-INB
LM 70.88 NB

MAINTAIN
LM 70.95 NB

OH-049-72-22
INSTALL OVERHEAD STRUCTURE
LM 71+21NB



OH-049-72-24
INSTALL OVERHEAD STRUCTURE
LM 71+74 NB



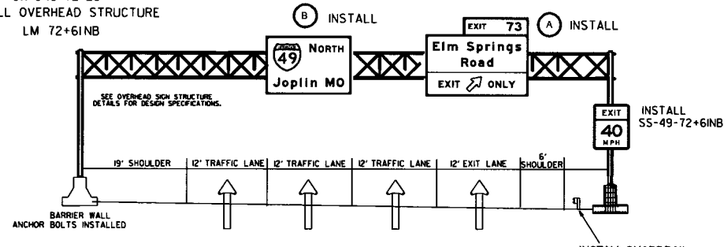
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
1-22-10
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	72	191

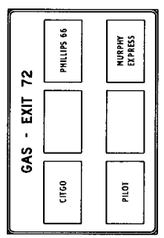
② SIGN PLACEMENT SHEET

0 200 400 600 ft.

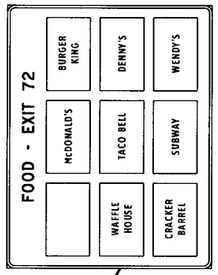
OH-049-72-28
INSTALL OVERHEAD STRUCTURE
LM 72+61NB



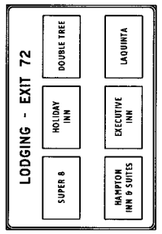
REPLACE
LG49-72SB
LM 71.90 SB



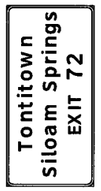
REPLACE
LF49-72SB
LM 72.00 SB



REPLACE
LL49-72SB
LM 72.09 SB



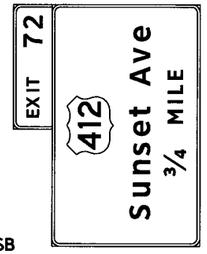
MAINTAIN
LM 72.16 SB



MAINTAIN
LM 72.21 SB

MAINTAIN
LM 72.33 SB

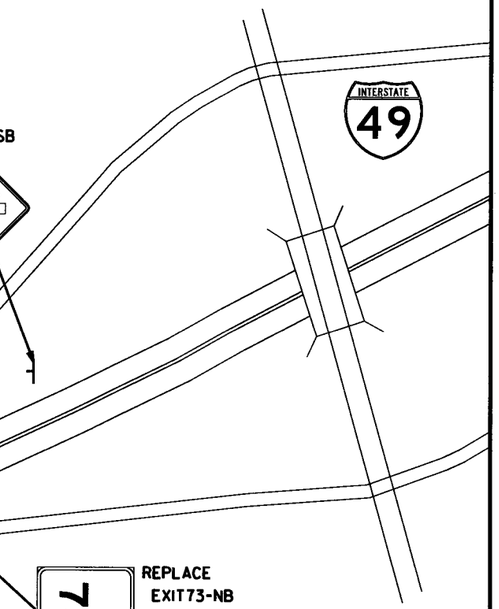
REMOVE
LM 72.44 SB



REPLACE
SS49-72+38SB

REPLACE
SS49-72+46SB

REPLACE
SS49-72+76SB



INSTALL
SS49-72+00SB

LM 72.00

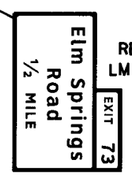
INSTALL
SS49-72+00NB

REPLACE
EXITWS-NB
LM 72.04 NB

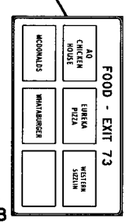
REPLACE
SS49-71+92NB

REPLACE
SS49-72+28NB

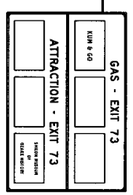
REMOVE
LM 72.12 NB



REPLACE
LF49-73NB
LM 72.31 NB



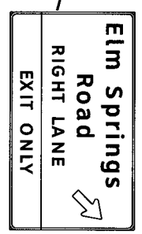
REPLACE
LGA49-73NB
LM 72.46 NB



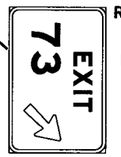
REMOVE
LM 72.50 NB

LM 72.50

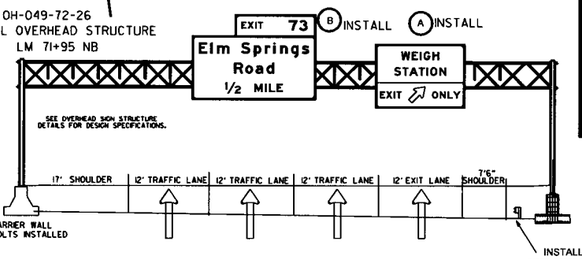
REMOVE
LM 72.60 NB



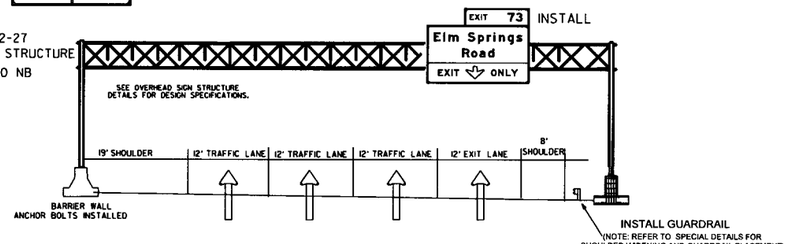
REPLACE
EXIT73-NB
LM 72.67 NB



OH-049-72-26
INSTALL OVERHEAD STRUCTURE
LM 71+95 NB



OH-049-72-27
INSTALL OVERHEAD STRUCTURE
LM 72+40 NB



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-18
JOSEPH A. SARTINI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	73	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

B INSTALL EXIT 72 — 412 Sunset Ave 1¼ MILE

A INSTALL EXIT 73 — Elm Springs Road

OH-049-72-29
INSTALL OVERHEAD STRUCTURE
LM 73+21SB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

EXIT 40 MPH

INSTALL SS-49-73+21SB

18'6" SHOULDER | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 10' SHOULDER

BARRIER WALL
ANCHOR BOLTS INSTALLED

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

REPLACE
ML49-72-1SB
LM 72.93 SB

State Police HQ
EXIT 72

REPLACE
EXIT73-SB
LM 73.08 SB

EXIT 73

REMOVE
LM 73.19 SB

EXIT 73
Elm Springs Road

REPLACE
SS49-73+00SB

MILE 7 3

REPLACE
LGA49-73SB
LM 73.75 SB

GAS - EXIT 73
ATTRACTION - EXIT 73
KUM & GO
SPRING MUSEUM OF LOCO MOTION

REPLACE
LF49-73SB
LM 73.92 SB

FOOD - EXIT 73
WESTERN STEER
EUREKA PIZZA
WHATABURGER
AQ CHICKEN HOUSE
MCDONALDS

LM 73.50

LM 73.00

INTERSTATE 49

MILE 7 3
REPLACE
SS49-73+00NB

REPLACE
SS49-72+96NB

49 NORTH INTERSTATE
MAINTAIN
LM 73.39 NB

SPEED LIMIT 70
REPLACE
SS49-73+47NB

SUBWAY
SHELL WHITE OAK
FOOD - EXIT 76
GAS - EXIT 76
REPLACE
LGF49-76NB
LM 73.73 NB

INTERSTATE 49

Wagon Wheel Road 1 MILE EXIT 76
REMOVE
LM 73.89 NB

OH-049-72-30
INSTALL OVERHEAD STRUCTURE
LM 73+86 NB

EXIT 76 — Wagon Wheel Road 1 MILE

A INSTALL

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

18'6" SHOULDER | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 9'6" SHOULDER

BARRIER WALL
ANCHOR BOLTS INSTALLED

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

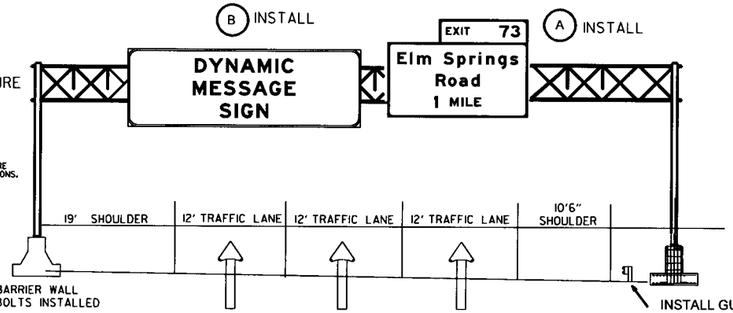
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-12-13
JOSEPH A. SARTIN

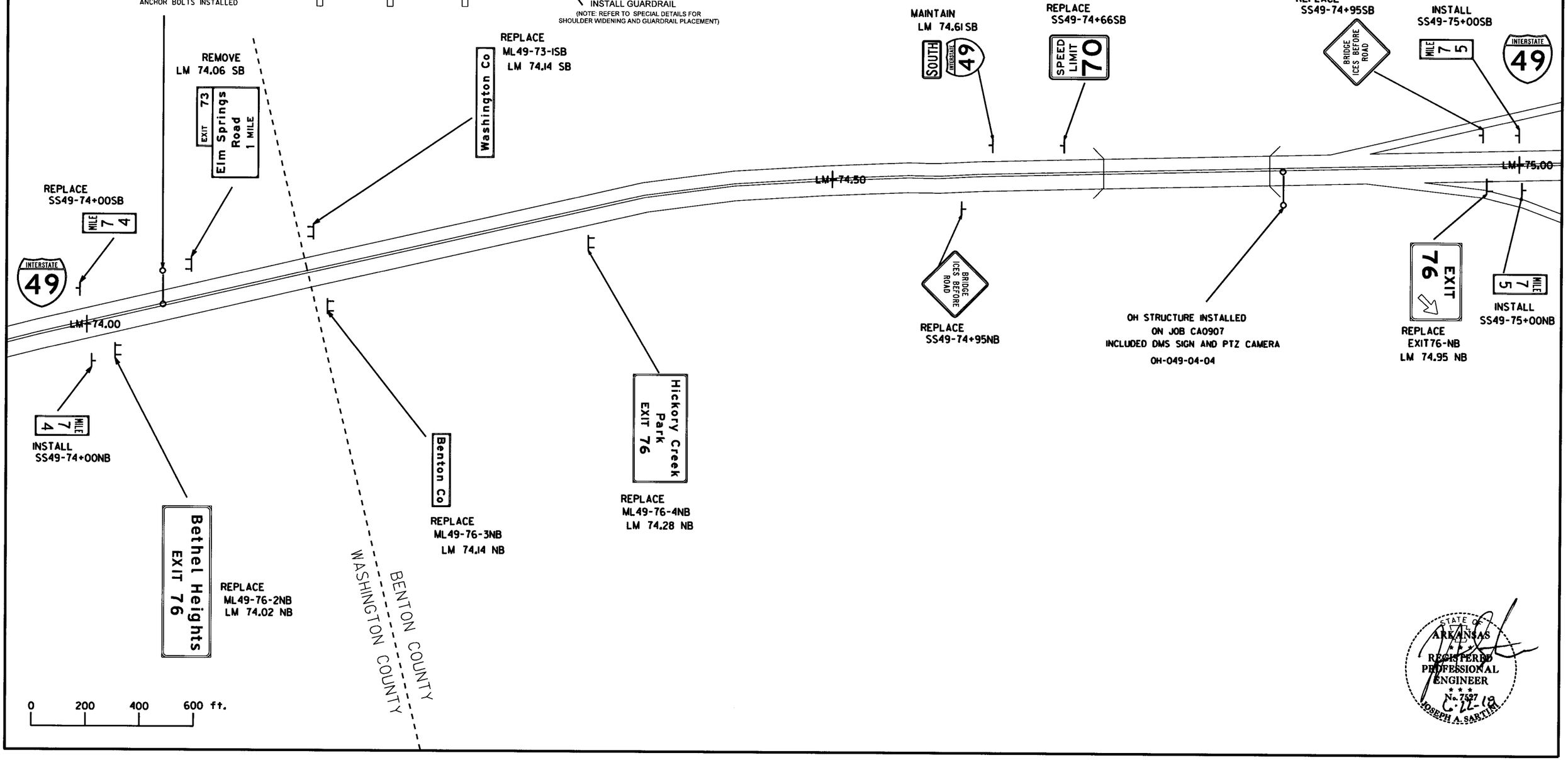
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	74	194

② SIGN PLACEMENT SHEET

OH-049-72-31
INSTALL OVERHEAD STRUCTURE
LM 74+05 SB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.





STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTIN
6-22-18

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	75	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

REPLACE
EXIT76-SB
LM 75.32 SB

EXIT 76

REMOVE
LM 75.42 SB

EXIT 76 Wagon Wheel Road

INSTALL
SS49-75+70SB

SPEED LIMIT 70

INSTALL
ML49-76-3SB
LM 75.80 SB

Bethel Heights EXIT 76

INSTALL
SS49-75+85SB

SOUTH INTERSTATE 49

INSTALL
SS49-76+00SB

MILE 76

MAINTAIN

REPLACE
ML49-76-4SB
LM 76.22 SB

Hickory Creek Park EXIT 76

MAINTAIN

GAS-EXIT 76 | FOOD-EXIT 76

REPLACE
SS49-75+05SB

LM 75.50

LM 76.00

INSTALL
SS49-75+66NB

SPEED LIMIT 70

INSTALL
SS49-76+00NB

MILE 77

INSTALL
SS49-75+56NB

NORTH INTERSTATE 49

INSTALL
SS49-75+25NB

EXIT 77

MAINTAIN

INTERSTATE 49

OH SIGNS AND STRUCTURE INSTALLED
ON JOB CA0907
OH-049-04-03

INTERSTATE 49

OH-049-04-18
INSTALL OVERHEAD STRUCTURE
LM 75+42 SB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

B INSTALL

INTERSTATE 49 SOUTH Fort Smith

EXIT 76 Wagon Wheel Road

A INSTALL

EXIT 35 MPH

INSTALL
SS-49-75+42SB

16' SHOULDER | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 11' SHOULDER

BARRIER WALL
ANCHOR BOLTS INSTALLED

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

LODGING-EXIT 78 | RAMADA INN

MAINTAIN

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
5-22-12
JOSEPH A. SARTHOU

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	76	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

612

612

OH SIGNS AND STRUCTURE INSTALLED
ON JOB CA0907
OH-049-04-01

INSTALL
SS49-76+88SB

BRIDGE ICES BEFORE ROAD

MAINTAIN

EXIT 77

INTERSTATE 49

INSTALL
SS49-77+00SB

MILE 7 7

LM 76.50

LM 77.00

INTERSTATE 49

FOOD-EXIT 78
MCDONALD'S
SONIC
KFC LONG JOHN SILVERS
SUBWAY
TACO BELL
DAIRY QUEEN

MAINTAIN

BRIDGE ICES BEFORE ROAD

INSTALL
SS49-76+75NB

GAS-EXIT 78
KUM & GO

MAINTAIN

Lowell
EXIT 78

REPLACE
ML49-78-3NB

MAINTAIN

Northwest AR
Reg Airport
EXIT 78

MAINTAIN

MILE 7 7

INSTALL
SS49-77+00NB

NORTH
INTERSTATE 49

INSTALL
SS49-77+20NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-17
JOSEPH A. SARTISI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	77	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

MAINTAIN
LM 77+40SB

Springdale
NEXT 5 EXITS

INTERSTATE 49

INSTALL
SS49-77+48SB

SPEED LIMIT 70

INSTALL
SS49-77+55SB

SOUTH INTERSTATE 49

LM 77.50

REPLACE
SS49-77+79SB

264

INSTALL
SS49-78+00SB

MILE 78

REPLACE
EXIT78-SB
LM 78.15 SB

EXIT 78

EXIT 78 264 W Monroe Ave

REMOVE
LM 78.26 SB

LM 78.00

INTERSTATE 49

MILE 78

INSTALL
SS49-78+00NB

INSTALL
SS49-78+06NB

OH SIGNS AND STRUCTURE INSTALLED
INCLUDED DMS AND PTZ CAMERA
ON JOB CA0907
OH-049-04-02

REMOVE
LM 77.58 NB

W Monroe Ave 264 EXIT 78

EXIT 78

REPLACE
EXIT78-NB
LM 77.69 NB

Rogers
NEXT 6 EXITS

REPLACE
ML49-81-INB
LM 77.73 NB

OH-049-04-19
INSTALL OVERHEAD STRUCTURE
LM 77+60 NB

A INSTALL

B INSTALL

INTERSTATE 49 NORTH Joplin MO

EXIT 78 264 West Monroe Ave

INSTALL
SS-49-77+60NB

EXIT 40 MPH

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

17'6" SHOULDER | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 12' EXIT LANE | 6' SHOULDER

BARRIER WALL
ANCHOR BOLTS INSTALLED

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-12-18
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02215	78	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

INTERSTATE 49

OAKWOOD AVE
BRIDGE #5954

LM 78.50

LM 79.00

REPLACE
ML49-78-3SB
LM 78.81 SB

Northwest AR Reg Airport EXIT 78

REPLACE
ML49-78-2SB
LM 79.02 SB

Lowell EXIT 78

INSTALL
SS49-79+00SB

MILE 7 9

REMOVE
LM 79.19 SB

EXIT 78
264
W Monroe Ave
1 MILE

MAINTAIN
LM 79.34 SB

GAS-EXIT 78
KUM & GO

INTERSTATE 49

MILE 7 6

INSTALL
SS49-79+00NB

GAS - EXIT 81
CASEY'S
ATTRACTION - EXIT 81
A.G. RUSSELL KNIVES

REPLACE
LGA49-81NB
LM 78.41 NB

FOOD - EXIT 81
MCDONALD'S
GOLDEN CORAL
CHICK-FIL-A
TACO BUENO
MOES
GUSANOS

REPLACE
LF49-81NB
LM 78.56 NB

INTERSTATE 49 NORTH

REPLACE
SS49-78+60NB

Pleasant Grove Road 1 MILE EXIT 81

REMOVE
LM 78.74 NB

SPEED LIMIT 70

MAINTAIN

INSTALL
BM-049-04-20

INSTALL
BM49-81-INB

Pleasant Grove Road 1 MILE EXIT 81

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-10
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	79	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

OH-049-04-22
INSTALL OVERHEAD STRUCTURE
LM 79+75 NB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

B INSTALL — DYNAMIC MESSAGE SIGN
B INSTALL — EXIT 82 Promenade Blvd 1½ MILE
A INSTALL — EXIT 81 Pleasant Grove Road

18'6" SHOULDER	12' TRAFFIC LANE	12' TRAFFIC LANE	12' TRAFFIC LANE	7'6" EXIT RAMP	12'6" SHOULDER

BARRIER WALL ANCHOR BOLTS INSTALLED

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

EXIT 40 MPH — INSTALL SS-49-79+75NB

MAINTAIN LM 79.54 SB

FOOD-EXIT 78: DAIRY QUEEN, TACO BELL, ARBYS, KFC LONG JOHN SILVERS, SONIC, McDONALD'S

MAINTAIN LM 79.49 SB — SPEED LIMIT 70

MAINTAIN LM 79.60 SB — SOUTH INTERSTATE 49

LODGING-EXIT 78: SUPER 8

MAINTAIN LM 79.69 SB

REPLACE SS49-79+95SB

INSTALL SS49-80+00SB — MILE 80

REMOVE LM 80.36 SB — EXIT 81 Pleasant Grove Road

REPLACE EXIT81-SB LM 80.24 SB — EXIT 81

INTERSTATE 49

LM 79.50

LM 80.00

REMOVE LM 79.70 NB — Pleasant Grove Road EXIT 81

REPLACE EXIT81-NB LM 79.81 NB — EXIT 81

INSTALL SS49-80+00NB — MILE 80

INSTALL SS49-80+04NB

REMOVE LM 80.01 NB

REPLACE ML49-82-INB LM 80.09 NB — Mercy Hospital EXIT 82

INSTALL SS49-80+42NB — INTERSTATE 49 NORTH

OH-049-04-21
INSTALL OVERHEAD STRUCTURE
LM 79+44 SB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

A INSTALL — EXIT 78 264 West Monroe Ave 1 MILE

17'6" SHOULDER	12' TRAFFIC LANE	12' TRAFFIC LANE	12' TRAFFIC LANE	10'6" SHOULDER

BARRIER WALL ANCHOR BOLTS INSTALLED

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

OH-049-04-23
INSTALL OVERHEAD STRUCTURE
LM 80+33 SB

B INSTALL — INTERSTATE 49 SOUTH Fort Smith
A INSTALL — EXIT 81 Pleasant Grove Road

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

EXIT 40 MPH — INSTALL SS-49-80+33SB

18' SHOULDER	12' TRAFFIC LANE	12' TRAFFIC LANE	12' TRAFFIC LANE	11' SHOULDER

BARRIER WALL ANCHOR BOLTS INSTALLED

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-12
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	80	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

INTERSTATE 49

LM 80.50

REPLACE
SS49-80+54NB

BRIDGE ICES BEFORE ROAD

MAINTAIN
LM 80.58 NB

SPEED LIMIT 70

MAINTAIN
LM 80.82 NB

Promenade Blvd ½ MILE

EXIT 82

REPLACE
ML49-82-2NB
LM 80.96 NB

Walmart AMP Arkansas Music Pavilion EXIT 82

MAINTAIN
LM 80.95 SB

BRIDGE ICES BEFORE ROAD

INSTALL
SS49-81+00SB

MILE 1 8

LM 81.00

INSTALL
SS49-81+00NB

MILE 1 8

MAINTAIN
LM 81.06 SB

SPEED LIMIT 70

REPLACE
LF49-81SB
LM 81.16 SB

FOOD - EXIT 81

GOLDEN CORAL	CHICK-FIL-A	GUSANOS
MCDONALD'S	TACO BUENO	MOES

REMOVE
LM 81.35 SB

EXIT 81 Pleasant Grove Road 1 MILE

MAINTAIN
LM 81.37 SB

SOUTH INTERSTATE 49

INTERSTATE 49

BELLVIEW RD.
BRIDGE #5957

BM-049-04-24

LM81+33NB

INSTALL BRIDGE MOUNTED SIGNS

EXIT 83 Pinnacle Hills Parkway 1¼ MILE

BM49-83-INB

EXIT 82 Promenade Blvd

BM49-82-INB

Promenade Blvd EXIT 82

REMOVE
LM 81.35 NB

EXIT 82

REPLACE
EXIT82-NB
LM 81.45 NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTIN
6-22-16

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	81	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

OH-049-04-25
INSTALL OVERHEAD STRUCTURE
LM 82+17 SB

(B) INSTALL
EXIT 81
Pleasant Grove Road
1½ MILE

EXIT 82
Promenade Blvd
(A) INSTALL

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

EXIT 40 MPH
INSTALL
SS-49-82+17SB

18' SHOULDER | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 11' SHOULDER

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

BARRIER WALL
ANCHOR BOLTS INSTALLED

GAS - EXIT 81
CASEYS
ATTRACTION - EXIT 81
A.G. RUSSELL KNIVES

REPLACE
LGA49-81SB
LM 81.69 SB

INSTALL
SS49-82+00SB

MILE 82

EXIT 82

REPLACE
EXIT82-SB
LM 82.03 SB

EXIT 82
Promenade Blvd

REMOVE
LM 82.16 SB

SPEED LIMIT 70
MAINTAIN
LM 82.32 SB

SOUTH INTERSTATE 49
MAINTAIN
LM 82.37 SB

Walmart AMP
Arkansas Music
Pavilion
EXIT 82

MAINTAIN
LM 82.46 SB

MAINTAIN
LM 81.57 SB

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-81+85SB

LM 82.00

LM 82.50

INTERSTATE 49

NORTH INTERSTATE 49
MAINTAIN
LM 82.24 NB

SPEED LIMIT 70
MAINTAIN
LM 82.47 NB

Pinnacle Hills Parkway
EXIT 83

REMOVE
LM 82.61 NB

MILE 81

LM 81.50

INSTALL
SS49-82+00NB

REPLACE
SS49-81+99NB

TACO BELL | STEAK N SHAKE | SUBWAY | CRABBY'S | DICKEY'S | SHOGUN JOE'S HIBACHIS
FOOD-EXIT 83

MAINTAIN
LM 82.34 NB

PHILLIPS 66
GAS-EXIT 83

MAINTAIN
LM 82.45 NB

Horseshoe Bend Park
EXIT 83

REPLACE
ML49-83-INB

BRIDGE ICES BEFORE ROAD

INSTALL
SS49-81+49NB

HOLIDAY INN | EMBASSY SUITES | STAYBRIDGE SUITES
LODGING-EXIT 83

MAINTAIN
LM 81.53 NB

Pinnacle Hills Parkway
1 MILE
EXIT 83

REMOVE
LM 81.70 NB

OH-049-04-26
INSTALL OVERHEAD STRUCTURE
LM 82+61NB

INSTALL (B)
EXIT 85
WEST 12 71B
SE Walton Blvd
W Walnut St
1¼ MILE

INSTALL (C)
NORTH INTERSTATE 49
Joplin MO

EXIT 83
Pinnacle Hills Parkway
(A) INSTALL

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

EXIT 40 MPH
INSTALL
SS-49-82+61NB

16'6" SHOULDER | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 11' SHOULDER

BARRIER WALL
ANCHOR BOLTS INSTALLED

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

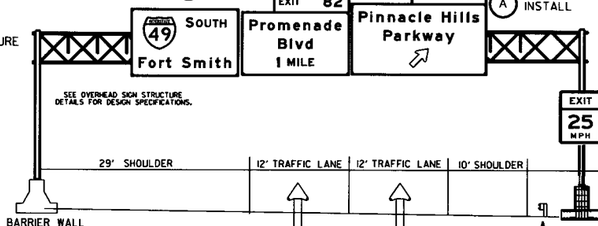
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-12
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	82	194

② SIGN PLACEMENT SHEET

OH-049-04-27
INSTALL OVERHEAD STRUCTURE
LM 83+22 SB

INSTALL (C) INSTALL (B) INSTALL (A)



INSTALL SS-49-83+22SB

REPLACE ML49-82-ISB LM 82.81 SB

REMOVE LM 82.97 SB

REMOVE LM 83.18 SB

REPLACE EXIT83-SB EXIT83-SB-AUX LM 83.04 SB

REPLACE ML49-83-ISB LM 83.54 SB

REPLACE ML49-83SB LM 83.70 SB

MAINTAIN LM 82.78 SB

INSTALL SS49-83+00SB

REPLACE SS49-83+15SB

LM 83.00

LM 83.50

REPLACE EXIT83-NB LM 82.71 NB

MAINTAIN LM 82.73 NB

REPLACE ML49-85-1NB LM 82.83 NB

REPLACE SS49-82+97NB

INSTALL SS49-83+00NB

REPLACE ML49-85-2NB LM 83.01 NB

REPLACE SS49-83+27NB

REMOVE LM 83.42 NB

MAINTAIN LM 83.42 NB

REPLACE LL49-85NB LM 83.54 NB

MAINTAIN LM 83.65 NB

0 200 400 600 ft.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
5-22-12
JOSEPH A. SARLATTI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	83	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

REMOVE
LM 83+85SB

EXIT 83
Pinnacle Hills Parkway
1 MILE

SPEED LIMIT 70

MAINTAIN
LM 83.80 SB

MAINTAIN
LM 83+88SB

SOUTH INTERSTATE 49

INSTALL
SS49-84+00SB

MILE 84

REPLACE
LF49-83SB
LM 84+01SB

FOOD - EXIT 83
SONIC DRIVE-IN REMODEL | SUBWAY | DICKEY'S | STEAK 'N SHAKE | CRABBY'S | TACO BELL

REPLACE
LL49-83SB
LM 84+21SB

LODGING - EXIT 83
STAYBRIDGE SUITES | EMBASSY SUITES | HOLIDAY INN

INSTALL
SS49-84+17SB

WALTON BLVD

REPLACE
SS49-84+38SB

BRIDGE ICES BEFORE ROAD

MAINTAIN

EXIT 85

MAINTAIN OH SIGNS AND STRUCTURE
INSTALLED CA0902
OH-049-04-05

MAINTAIN
Northwest Medical Center
EXIT 85

INTERSTATE 49

LM 84.00

LM 84.50

BRIDGE ICES BEFORE ROAD

REMOVE
LM 83+95NB

MILE 84

INSTALL
SS49-84+00NB

SE Walton Blvd
W Walnut St
12 71B
EXIT 85

REMOVE
LM 84+01NB

EXIT 85

REPLACE
EXIT49-85NB
LM 84+10NB

OH-049-04-28
INSTALLATION MOVED TO BB0903
LM 84+01NB

BRIDGE ICES BEFORE ROAD

INSTALL
SS49-84+13NB

Bentonville Business Dist
EXIT 86

REPLACE
ML49-86-1NB
LM 84+25NB

INSTALL
SS49-84+35NB

Hobbs State Park Conservation Area
Prairie Creek Park
EXIT 86

REPLACE
ML49-86-2NB
LM 84+39NB

INTERSTATE 49 NORTH

MAINTAIN

Eureka Springs
EXIT 86

MAINTAIN

MAINTAIN
CL-049-04-06
INSTALLED CA0902

INTERSTATE 49

GAS-EXIT 85
MURPHY EXPRESS

MAINTAIN
LM 83+77NB

Northwest Medical Center
EXIT 85

REPLACE
ML49-85-4NB
LM 83+88NB

12

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
9-12-18
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	84	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

MAINTAIN
GAS-EXIT 85
MURPHY EXPRESS

MAINTAIN
OVERHEAD CANTILEVER
CL-049-04-07

INSTALL
SS49-85+00SB
MILE 85

MAINTAIN
FOOD-EXIT 85
WAFFLE HOUSE
VILLAGE INN
DENNY'S
McDONALD'S
TACO BELL
IHOP

MAINTAIN
SPEED LIMIT 70

MAINTAIN
OVERHEAD CANTILEVER
CL-049-04-09

MAINTAIN
Northwest Arkansas
Regional Airport
EXIT 85

MAINTAIN
SOUTH INTERSTATE 49

MAINTAIN
LODGING - EXIT 85
SPRINGHILL
DAYS INN & SUITES
BAYMONT
REGENCY 7 MOTEL
HAMPTON INN & SUITES
HOLIDAY INN

LM 85.50

MAINTAIN
ATTRACTION-EXIT 85
WAR EAGLE CAVERN
DAISY AIRGUN MUSEUM

MAINTAIN
Rogers
Business Dist
EXIT 85

MAINTAIN

OLIVE ST

INTERSTATE 49

LM 85.00

MILE 85
INSTALL
SS49-85+00NB

MAINTAIN
OVERHEAD STRUCTURE
OH-049-04-08

MAINTAIN
OVERHEAD STRUCTURE
OH-049-04-10

BRIDGE ICES BEFORE ROAD

MAINTAIN

INTERSTATE 49

EXIT 86

MAINTAIN

102

MAINTAIN
ATTRACTION-EXIT 86
VENTURS TRAILS END RESORT
-EXIT 86

MAINTAIN
FOOD-EXIT 86
SUBWAY
ARBY'S

MAINTAIN
NorthWest Arkansas
Community College
EXIT 86

MAINTAIN
GAS-EXIT 86
SAM'S CLUB

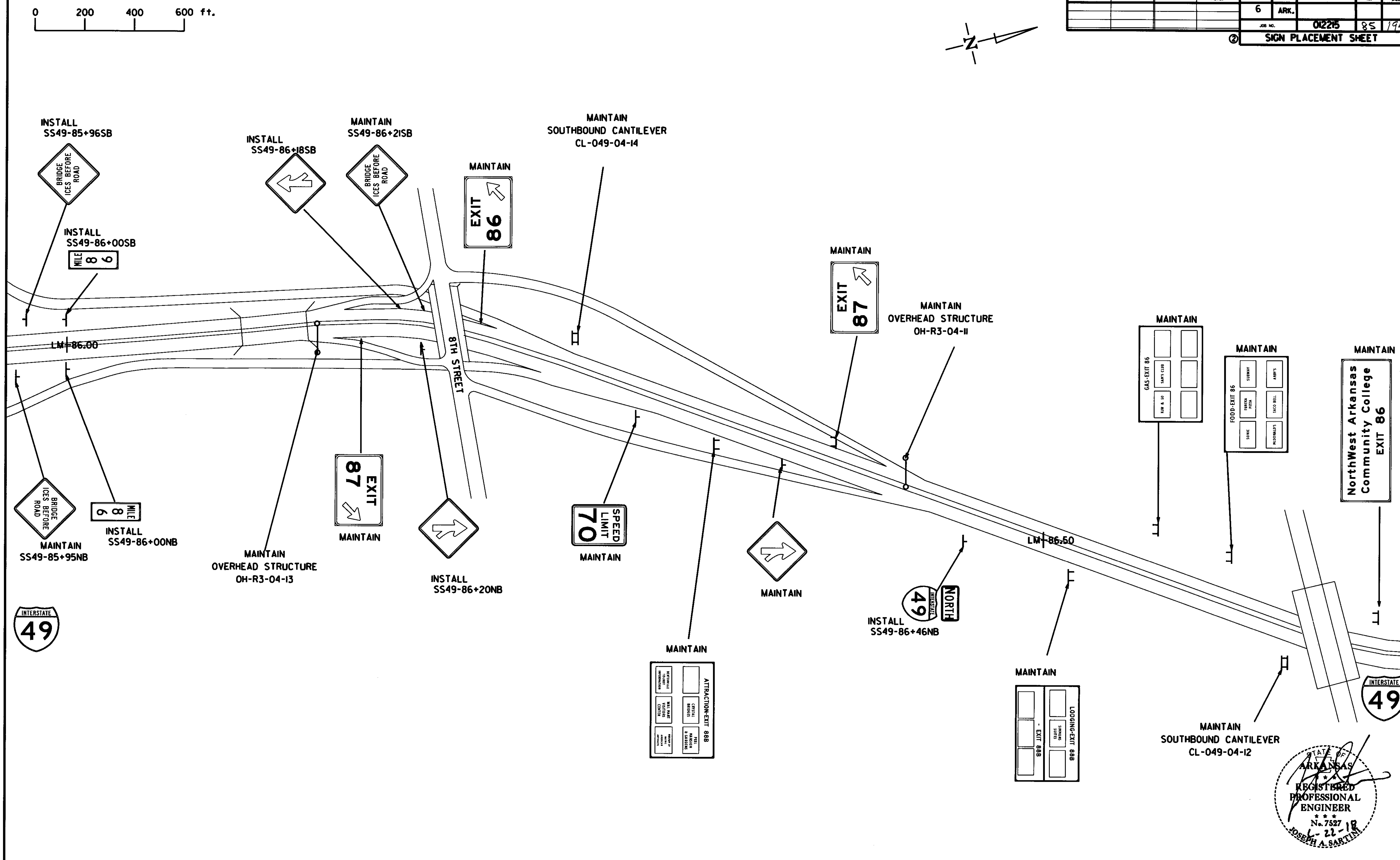
MAINTAIN
Pea Ridge
National
Military Park
EXIT 86

MAINTAIN

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-09
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	85	194

② SIGN PLACEMENT SHEET



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	86	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

INTERSTATE 49

INSTALL SS49-87+00SB

MILE 87

LM 87.00

MAINTAIN

-EXIT 86

ATTRACTION-EXIT 86

ENTER TABLE OF RESORT

MAINTAIN

Pea Ridge National Military Park EXIT 86

MAINTAIN

Eureka Springs EXIT 86

MILE 87

INSTALL SS49-87+00NB

SPEED LIMIT 70

MAINTAIN

MAINTAIN

Hobbs State Park Conservation Area Prairie Creek Park EXIT 86

MAINTAIN

OVERHEAD STRUCTURE

OH-049-04-13

MAINTAIN

SOUTH INTERSTATE 49

MAINTAIN

ML49-87-ISB

Rogers NEXT 6 EXITS

INSTALL SS49-87+78SB

MAINTAIN

INSTALL SS49-88+00SB

MILE 88

MAINTAIN

EXIT 88

REMOVE LM 88+14SB

EXIT 88

72

E Central Ave

LM 88.00

INTERSTATE 49

INSTALL SS49-88+00NB

MILE 88

EXIT 88B

MAINTAIN

MAINTAIN

LM 87.50

FOOD-EXIT 88A

SUBWAY

SONIC DRIVE-IN BURGER

FOOD-EXIT 88B

MAINTAIN

GAS - EXIT 88B

EXIT 88 60

TIRES

EXITS

- EXIT 88A

MAINTAIN

Pea Ridge EXIT 88A

MAINTAIN

MAINTAIN

OVERHEAD STRUCTURE

OH-049-04-14

EXIT 88A

MAINTAIN

MAINTAIN

CANTILEVER STRUCTURE

CL-049-04-15

OH-049-04-29

INSTALL OVERHEAD STRUCTURE

LM 88+12 SB

INSTALL C

EXIT 86

WEST 102 EAST 62 EAST 12

SE 14th Street Hudson Road

1 3/4 MILE

INSTALL B

EXIT 87

8th Street

1 1/2 MILE

EXIT 88

72 EAST

E Central Ave

INSTALL A

EXIT 40 MPH

INSTALL SS-49-88+12NB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

4' SHOULDER

25' GRASS MEDIAN | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 11'6" SHOULDER

GRASS MEDIAN C/L

INSTALL GUARDRAIL

(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

INSTALL GUARDRAIL

(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

STATE OF ARKANSAS

REGISTERED PROFESSIONAL ENGINEER

No. 7527

12-22-15

JOSEPH A. SARTAIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	87	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

REPLACE
LG49-88SB
LM 88.45SB

GAS - EXIT 88
CASEY'S
KUM & GO
WALMART

REPLACE
LF49-88SB
LM 88.60SB

FOOD - EXIT 88
SMOKIN JOE'S RIBHOUSE
RIVER GRILL

INTERSTATE 49

LM 88.50

INSTALL
SS49-88+25NB
INTERSTATE 49 NORTH

INSTALL
SS49-88+35NB
SPEED LIMIT 70

INSTALL
SS49-88+45NB
SLOWER TRAFFIC KEEP RIGHT

REMOVE
LM 88.60NB
SPEED LIMIT 70

REPLACE
ML49-88-1SB
LM 88.79SB
Pea Ridge EXIT 88

REPLACE
LL49-88SB
LM 88.90SB
LODGING - EXIT 88
SIMMONS SUITES
COURTYARD

REPLACE
ML49-88-4SB
LM 88.10SB
EXIT 88 EAST
72
E Central Ave
1 MILE

INSTALL
SS49-89+00SB
MILE 89

LM 89.00

INSTALL
SS49-89+00NB
MILE 88

INTERSTATE 49

TM-049-04-30
INSTALL OVERHEAD STRUCTURE
WITH T-MOUNTED DMS BACK/BACK
LM 88+80

DYNAMIC MESSAGE SIGN
DYNAMIC MESSAGE SIGN

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

EXISTING SHOULDER
INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)
C/L
48' GRASS MEDIAN
EXISTING SHOULDER
INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-16
JOSEPH A. SARTIN III

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	88	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

REPLACE
LA49-88SB
LM 89.26SB

ATTRACTION-EXIT 88
- PEEL MANSION & GARDENS
- CRYSTAL BRIDGES
- SCOTT FAMILY
- MUSEUM OF NATURAL AMERICAN ARTIFACTS
- WAL MART VISITORS CENTER
- BENTONVILLE TOURIST INFORMATION

REPLACE
ML49-88-5SB
LM 89.64SB

Bentonville
NEXT 4 EXITS

LM 89.50

INTERSTATE 49

REPLACE
SS49-90+27SB

BRIDGE ICES BEFORE ROAD

INSTALL
SS49-90+00SB

MILE 90

LM 90.00

MILE 90

INSTALL
SS49-90+00NB

BRIDGE ICES BEFORE ROAD

REPLACE
SS49-89+95NB

FREEWAY ENDS
2 MILES

REPLACE
ML49-93-4NB-A
ML49-93-4NB-B
LM 89.90NB

REPLACE
LXL49-93NB
LM 90.16NB

LODGING - EXIT 93

- EXIT 93

INTERSTATE 49

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
12-22-12
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	89	194

② SIGN PLACEMENT SHEET

0 200 400 600 ft.

N

REPLACE
ML49-88-3SB
LM 90.67SB

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

REPLACE
SS49-90+68SB

SLOWER TRAFFIC KEEP RIGHT

MAINTAIN
LM 90.81SB

SOUTH INTERSTATE 49

REPLACE
SS49-91+10SB

SPEED LIMIT 70

INTERSTATE 49

INSTALL
SS49-91+00SB

MILE 91

INTERSTATE 49

LM 90.50

LM 91.00

1½ MILES
FREEWAY ENDS

MAINTAIN
LM 90.35NB

MAINTAIN
LM 90.68NB

FREEWAY ENDS
1 MILE

REPLACE
ML49-93-5NB-A
ML49-93-5NB-B
LM 90.82NB

MILE 91

INSTALL
SS49-91+00NB

MAINTAIN
LM 91.04NB

SPEED LIMIT 55

REPLACE
SS49-91+26NB

EUREKA PIZZA | KFC | FOOD-EXIT 93 | ARBYS

MAINTAIN
LM 90.33NB

71B 549
N Walton Blvd
1 MILE
EXIT 93

REPLACE
ML49-93-1NB
LM 90.49NB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-27-12
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	90	194

② SIGN PLACEMENT SHEET

71B

REPLACE
SS49-91+53SB

SPEED LIMIT 55

INSTALL
SS49-91+56SB

BRIDGE ICES BEFORE ROAD

549

INSTALL
SS49-91+36SB

EXIT 93

REPLACE
EXIT-93SB
LM 91.58SB

END PROJECT 012215

INTERSTATE 49

LM 91.50

N Walton Blvd
71B 549
EXIT 93

REPLACE
ML49-93-2NB
LM 91.44NB

EXIT 93
25 MPH

REPLACE
EXIT-93NB
LM 91.62NB

71

REPLACE
ML49-93-1SB
HWY 71 - LM 1.12

EXIT 93
549
71B
N Walton Blvd
1 MILE

BRIDGE ICES BEFORE ROAD

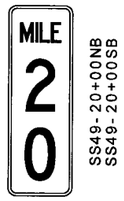
REPLACE
SS49-91+31NB

0 200 400 600 ft.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-16
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	91	194

② SIGN LAYOUT SHEET



SS49-20+00NB
SS49-20+00SB

D10-2
12" X36"

SS49-21+00NB
SS49-21+00SB

D10-2
12" X36"

SS49-22+00NB
SS49-22+00SB

D10-2
12" X36"

SS49-23+00NB
SS49-23+00SB

D10-2
12" X36"

SS49-24+00NB
SS49-24+00SB

D10-2
12" X36"

SS49-25+00NB
SS49-25+00SB

D10-2
12" X36"

SS49-26+00NB
SS49-26+00SB

D10-2
12" X36"

SS49-26+85NB
SS49-26+85SB

D10-2
12" X36"

SS49-28+00NB
SS49-28+00SB

D10-2
12" X36"

SS49-29+00NB
SS49-29+00SB

D10-2
12" X36"

SS49-30+00NB
SS49-30+00SB

D10-2
12" X36"

SS49-31+00NB
SS49-31+00SB

D10-2
12" X36"

SS49-32+00NB
SS49-32+00SB

D10-2
12" X36"

SS49-33+00NB
SS49-33+00SB

D10-2
12" X36"

SS49-34+00NB
SS49-34+00SB

D10-2
12" X36"

SS49-35+00NB
SS49-35+00SB

D10-2
12" X36"

SS49-36+00NB
SS49-36+00SB

D10-2
12" X36"

SS49-37+00NB
SS49-37+00SB

D10-2
12" X36"

SS49-38+00NB
SS49-38+00SB

D10-2
12" X36"

SS49-39+12NB
SS49-39+11SB

D10-2
12" X36"

SS49-40+00NB
SS49-40+00SB

D10-2
12" X36"

SS49-41+00NB
SS49-41+00SB

D10-2
12" X36"

SS49-42+00NB
SS49-42+00SB

D10-2
12" X36"

SS49-43+00NB
SS49-43+00SB

D10-2
12" X36"

SS49-43+98NB
SS49-43+98SB

D10-2
12" X36"

SS49-45+00NB
SS49-45+00SB

D10-2
12" X36"

SS49-46+00NB
SS49-46+00SB

D10-2
12" X36"

SS49-47+00NB
SS49-47+00SB

D10-2
12" X36"

SS49-48+00NB
SS49-48+00SB

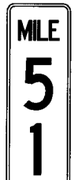
D10-2
12" X36"

SS49-49+00NB
SS49-49+00SB

D10-2
12" X36"

SS49-50+00NB
SS49-50+00SB

D10-2
12" X36"



SS49-51+00NB
SS49-51+00SB

D10-2
12" X36"

SS49-52+00NB
SS49-52+00SB

D10-2
12" X36"

SS49-53+00NB
SS49-53+00SB

D10-2
12" X36"

SS49-54+00NB
SS49-54+00SB

D10-2
12" X36"

SS49-55+00NB
SS49-55+00SB

D10-2
12" X36"

SS49-56+00NB
SS49-56+00SB

D10-2
12" X36"

SS49-57+00NB
SS49-57+00SB

D10-2
12" X36"

SS49-58+04NB
SS49-58+04SB

D10-2
12" X36"

SS49-59+00NB
SS49-59+00SB

D10-2
12" X36"

SS49-60+00NB
SS49-60+00SB

D10-2
12" X36"

SS49-61+00NB
SS49-61+00SB

D10-2
12" X36"

SS49-62+00NB
SS49-62+00SB

D10-2
12" X36"

SS49-63+00NB
SS49-63+00SB

D10-2
12" X36"

SS49-64+00NB
SS49-64+00SB

D10-2
12" X36"

SS49-65+00NB
SS49-65+00SB

D10-2
12" X36"

SS49-66+00NB
SS49-66+00SB

D10-2
12" X36"

SS49-67+00NB
SS49-67+00SB

D10-2
12" X36"

SS49-68+00NB
SS49-68+00SB

D10-2
12" X36"

SS49-69+00NB
SS49-69+00SB

D10-2
12" X36"

M 3-1
30" X15"

M1-1
36" X36"

SS49-20+02NB
SS49-69+43NB
SS49-71+85NB
SS49-75+56NB
SS49-77+20NB
SS49-78+60NB
SS49-80+42NB
SS49-83+27NB
SS49-86+46NB
SS49-88+25NB

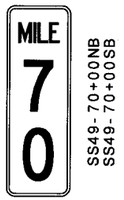
M 3-3
30" X15"

M1-1
36" X36"

SS49-28+68SB
SS49-33+55SB
SS49-60+03SB
SS49-63+27SB
SS49-64+47SB
SS49-68+60SB
SS49-72+46SB
SS49-75+85SB
SS49-77+55SB

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	92	194

② SIGN LAYOUT SHEET



SS49-70+00NB
SS49-70+00SB

D10-2
12" X36"

SS49-71+00NB
SS49-71+00SB

D10-2
12" X36"

SS49-72+00NB
SS49-72+00SB

D10-2
12" X36"

SS49-73+00NB
SS49-73+00SB

D10-2
12" X36"

SS49-74+00NB
SS49-74+00SB

D10-2
12" X36"

SS49-75+00NB
SS49-75+00SB

D10-2
12" X36"

SS49-76+00NB
SS49-76+00SB

D10-2
12" X36"

SS49-77+00NB
SS49-77+00SB

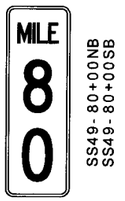
D10-2
12" X36"

SS49-78+00NB
SS49-78+00SB

D10-2
12" X36"

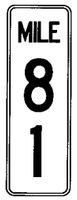
SS49-79+00NB
SS49-79+00SB

D10-2
12" X36"



SS49-80+00NB
SS49-80+00SB

D10-2
12" X36"



SS49-81+00NB
SS49-81+00SB

D10-2
12" X36"

SS49-82+00NB
SS49-82+00SB

D10-2
12" X36"

SS49-83+00NB
SS49-83+00SB

D10-2
12" X36"

SS49-84+00NB
SS49-84+00SB

D10-2
12" X36"

SS49-85+00NB
SS49-85+00SB

D10-2
12" X36"

SS49-86+00NB
SS49-86+00SB

D10-2
12" X36"

SS49-87+00NB
SS49-87+00SB

D10-2
12" X36"

SS49-88+00NB
SS49-88+00SB

D10-2
12" X36"

SS49-89+00NB
SS49-89+00SB

D10-2
12" X36"

SS49-90+00NB
SS49-90+00SB

D10-2
12" X36"

SS49-91+00NB
SS49-91+00SB

D10-2
12" X36"

R2-1
48" X60"

SS49-20+05SB-A
SS49-20+05SB-B
SS49-91+26NB
SS49-91+53SB

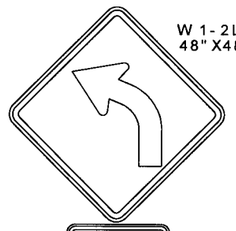
R2-1
48" X60"

SS49-60+85NB-A
SS49-60+85NB-B
SS49-62+93NB
SS49-63+40SB
SS49-64+38SB

R2-1
48" X60"

SS49-20+09NB
SS49-21+42NB
SS49-24+42NB
SS49-30+35NB
SS49-34+82NB
SS49-45+91NB
SS49-53+63NB
SS49-58+76NB
SS49-71+92NB
SS49-73+47NB
SS49-75+66NB
SS49-88+35NB

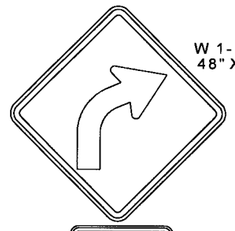
SS49-23+06SB
SS49-28+47SB
SS49-33+21SB
SS49-43+97SB
SS49-52+10SB
SS49-57+29SB
SS49-59+84SB
SS49-60+72SB
SS49-70+23SB
SS49-71+12SB
SS49-72+38SB
SS49-74+66SB
SS49-75+70SB
SS49-77+48SB
SS49-91+10SB



W 1-2L
48" X48"

W 13-1
24" X24"

SS49-19+95SB-B



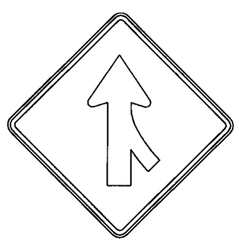
W 1-2R
48" X48"

W 13-1
24" X24"

SS49-19+95SB-A

W 11-3
48" X48"

SS49-29+94NB
SS49-37+12SB
SS49-37+64NB
SS49-44+52SB
SS49-45+60NB
SS49-56+77SB



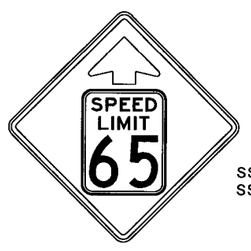
W 4-1R
48" X48"

SS49-20+67NB
SS49-23+83NB
SS49-29+56NB
SS49-35+02NB
SS49-45+33NB
SS49-53+05NB
SS49-58+17NB
SS49-60+92NB
SS49-69+06NB
SS49-71+60NB
SS49-72+28NB
SS49-72+96NB
SS49-75+25NB
SS49-78+06NB
SS49-80+42NB
SS49-81+99NB
SS49-82+97NB
SS49-84+35NB
SS49-86+20NB

SS49-20+62SB
SS49-29+27SB
SS49-34+05SB
SS49-52+80SB
SS49-57+90SB
SS49-61+99SB
SS49-68+81SB
SS49-69+83SB
SS49-70+63SB
SS49-71+43SB
SS49-72+76SB
SS49-75+05SB
SS49-77+79SB
SS49-79+95SB
SS49-84+17SB
SS49-86+18SB
SS49-87+78SB
SS49-91+36SB

W 3-5
48" X48"

SS49-20+15SB-A
SS49-20+15SB-B



W 3-5
48" X48"

SS49-60+75NB-A
SS49-60+75NB-B

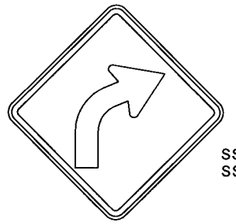
R4-3
48" X60"

SS49-20+20NB
SS49-21+45NB
SS49-24+53NB
SS49-30+57NB
SS49-34+92NB
SS49-39+71NB
SS49-46+03NB
SS49-53+70NB
SS49-59+04NB
SS49-88+45NB

SS49-22+94SB
SS49-28+30SB
SS49-33+21SB
SS49-43+84SB
SS49-57+17SB
SS49-90+68SB

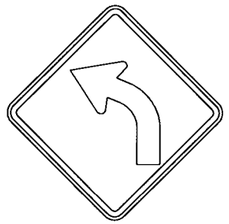
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	93	194

SIGN LAYOUT SHEET



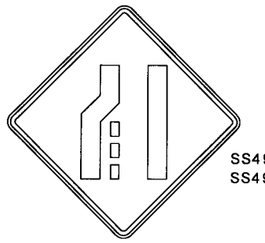
SS49- 62+98NB
SS49- 61+75SB

W 1- 2R
48" X48"



SS49- 63+81SB
SS49- 61+33NB

W 1- 2L
48" X48"

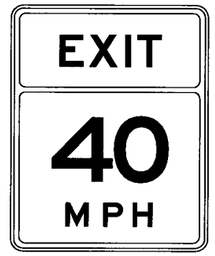


SS49- 62+75SB- A
SS49- 62+75SB- B

W 4- 2L
48" X48"

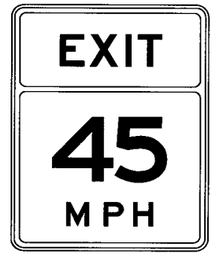
SS49- 62+89SB- A
SS49- 62+89SB- B

W 9- 1LR
48" X48"



SS40- WB- RAMP1

W 13- 2
48" X60"

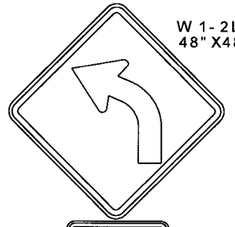


SS49- 19+70SB- A
SS49- 19+70SB- B

W 13- 2
48" X60"

SS49- 20+10
SS49- 25+75
SS49- 28+32
SS49- 41+19
SS49- 45+85
SS49- 51+51

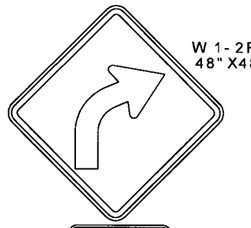
SPEC
30" X24"



W 1- 2L
48" X48"

W 13- 1
24" X24"

SS40- EB+RAMP1



W 1- 2R
48" X48"

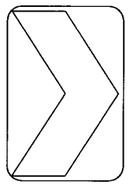
W 13- 1
24" X24"

SS40- WB+RAMP2

W - SPEC
48" X48"

W 7- 3A
24" X18"

SS49- 37+69NB- A
SS49- 37+69NB- B



W 1- 8
30" X36"

SS49- 32+02NB
SS49- 32+06NB
SS49- 32+10NB
SS49- 32+14NB
SS49- 32+18NB
SS49- 32+22NB
SS49- 32+26NB
SS49- 32+30NB
SS49- 36+65NB
SS49- 36+69NB

SS49- 36+74NB
SS49- 36+78NB
SS49- 36+82NB
SS49- 36+86NB
SS49- 36+90NB
SS49- 36+95NB
SS49- 41+52NB
SS49- 41+55NB
SS49- 41+58NB
SS49- 41+62NB

SS49- 41+66NB
SS49- 41+70NB
SS49- 46+95NB
SS49- 46+99NB
SS49- 47+03NB
SS49- 47+06NB
SS49- 47+10NB
SS49- 47+14NB
SS49- 47+18NB
SS49- 47+21NB

SS49- 47+25NB
SS49- 47+29NB
SS49- 54+39NB
SS49- 54+42NB
SS49- 54+46NB
SS49- 54+50NB
SS49- 54+54NB
SS49- 54+58NB
SS49- 56+50NB
SS49- 56+54NB

SS49- 56+58NB
SS49- NB- RAMP1
SS49- NB- RAMP2
SS49- NB- RAMP3
SS49- NB- RAMP4
SS49- NB- RAMP5
SS49- 36+99NB

SS49- 25+67SB
SS49- 25+71SB
SS49- 25+74SB
SS49- 25+78SB
SS49- 25+82SB
SS49- 25+86SB
SS49- 32+08SB
SS49- 32+11SB
SS49- 32+14SB
SS49- 32+16SB

SS49- 32+19SB
SS49- 32+22SB
SS49- 32+25SB
SS49- 32+28SB
SS49- 36+63SB
SS49- 36+67SB
SS49- 36+71SB
SS49- 36+75SB
SS49- 36+79SB
SS49- 36+83SB

SS49- 36+87SB
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SS49- 36+99SB
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SS49- 37+88SB
SS49- 37+91SB
SS49- 37+95SB
SS49- 37+99SB
SS49- 38+05SB

SS49- 38+09SB
SS49- 38+12SB
SS49- 46+98SB
SS49- 47+08SB
SS49- 47+11SB
SS49- 47+15SB
SS49- 47+19SB
SS49- 47+23SB
SS49- 47+27SB
SS49- 47+30SB

SS49- 47+34SB
SS49- 56+53SB
SS49- 56+57SB
SS49- 56+61SB
SS49- 56+64SB
SS49- 56+68SB
SS49- 56+72SB

W 8- 13
48" X48"

SS49- 21+02NB
SS49- 26+73NB
SS49- 33+26NB
SS49- 35+60NB
SS49- 37+12NB
SS49- 38+72NB
SS49- 43+14NB
SS49- 43+90NB
SS49- 47+24NB
SS49- 48+85NB
SS49- 51+51NB
SS49- 61+92NB
SS49- 68+52NB
SS49- 68+81NB
SS49- 71+34NB
SS49- 74+60NB
SS49- 76+75NB
SS49- 80+54NB
SS49- 81+49NB
SS49- 84+13NB
SS49- 89+95NB
SS49- 91+31NB

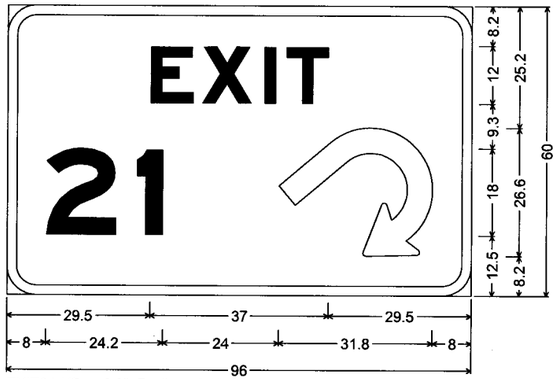
SS49- 27+40SB
SS49- 32+70SB
SS49- 33+58SB
SS49- 36+05SB
SS49- 42+51SB
SS49- 43+54SB
SS49- 44+39SB
SS49- 48+06SB
SS49- 51+83SB
SS49- 60+76SB
SS49- 62+18SB
SS49- 68+85SB
SS49- 69+10SB
SS49- 71+61SB
SS49- 74+95SB
SS49- 76+88SB
SS49- 81+85SB
SS49- 83+15SB
SS49- 84+38SB
SS49- 85+96SB
SS49- 90+27SB
SS49- 91+56SB

SS49- 29+95NB
SS49- 29+95SB
SS49- 37+75NB
SS49- 37+75SB

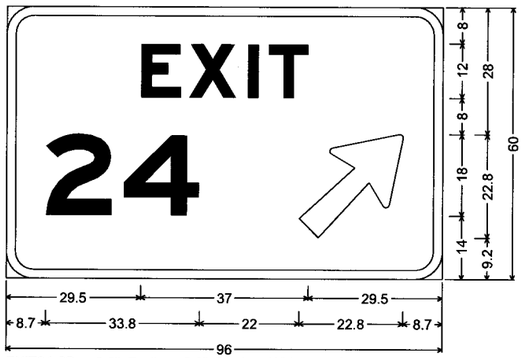
SPEC
30" X24"

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		0225	94	194

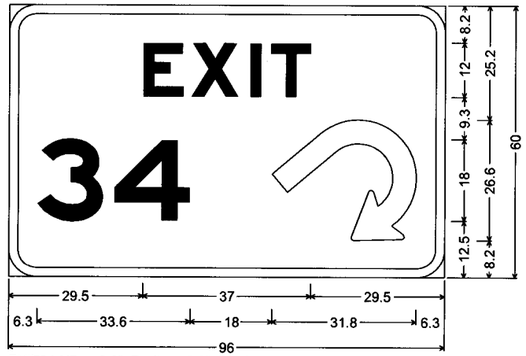
② SIGN LAYOUT SHEET



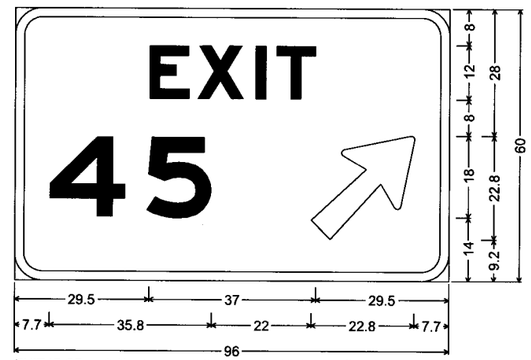
EXIT21-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [21] E Mod 2K; Turn Arrow Custom White;



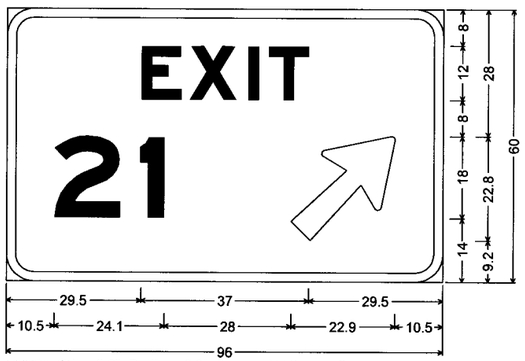
EXIT24-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [24] E Mod 2K; Arrow Custom - 29.0" 45°;



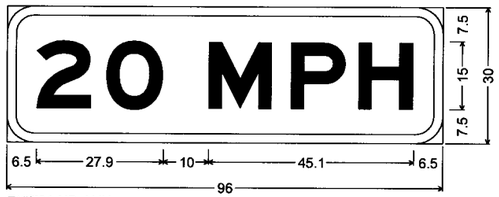
EXIT34-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [34] E Mod 2K; Turn Arrow Custom White;



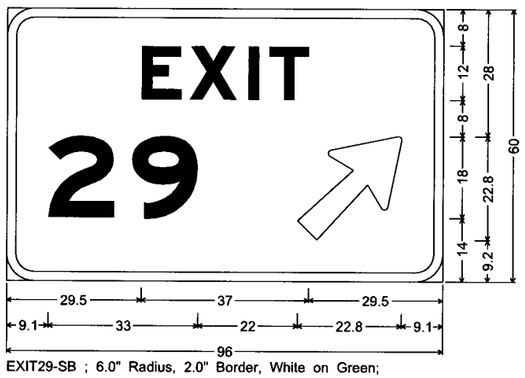
EXIT45-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [45] E Mod 2K; Arrow Custom - 29.0" 45°;



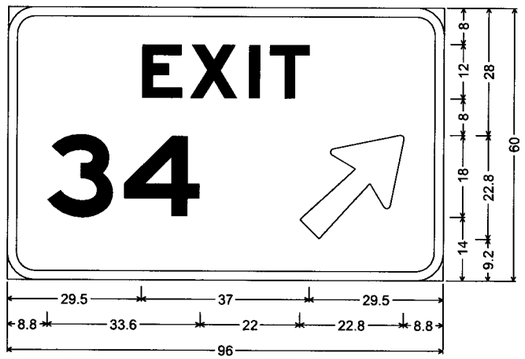
EXIT21-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [21] E Mod 2K; Arrow Custom - 29.0" 45°;



EXIT21-NB-AUX;
6.0" Radius, 2.0" Border, Black on Yellow;
[20] E Mod 2K; [MPH] E Mod 2K;

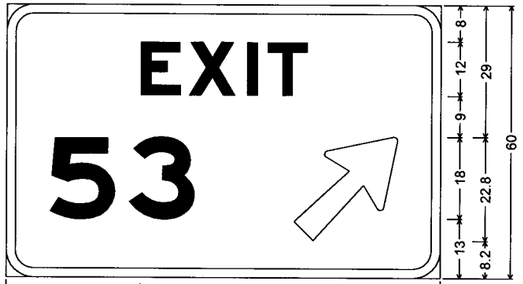


EXIT29-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [29] E Mod 2K; Arrow Custom - 29.0" 45°;

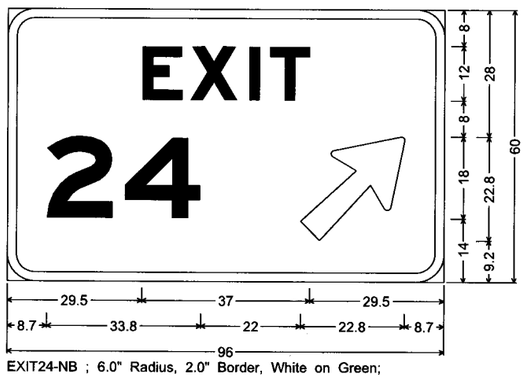


EXIT34-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [34] E Mod 2K; Arrow Custom - 29.0" 45°;

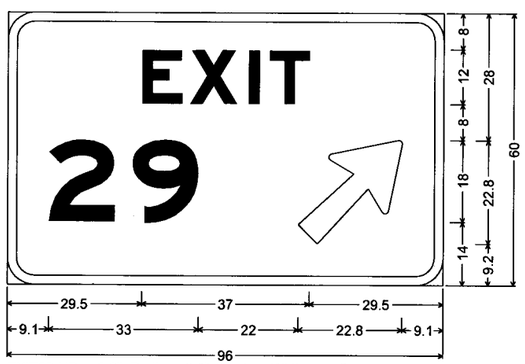
EXIT34-NB-AUX;
6.0" Radius, 2.0" Border, Black on Yellow;
[25] E Mod 2K; [MPH] E Mod 2K;



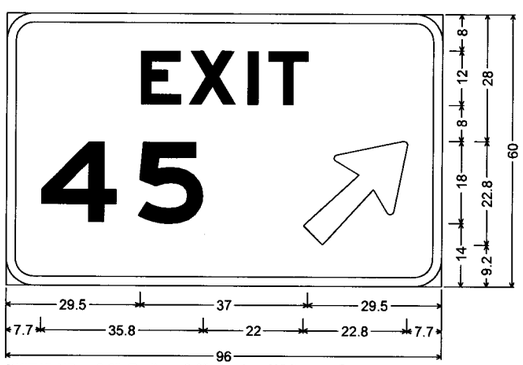
EXIT53-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [53] E Mod 2K; Arrow Custom - 29.0" 45°;



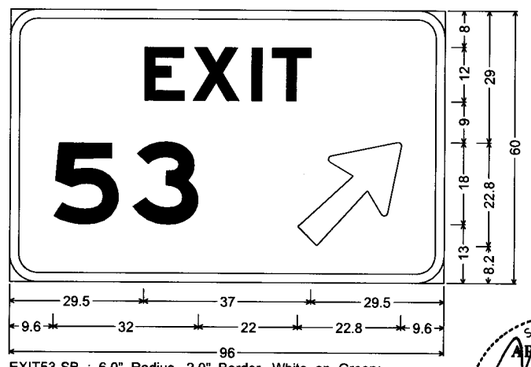
EXIT24-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [24] E Mod 2K; Arrow Custom - 29.0" 45°;



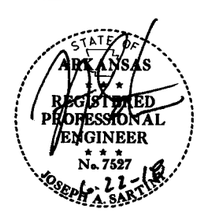
EXIT29-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [29] E Mod 2K; Arrow Custom - 29.0" 45°;



EXIT45-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [45] E Mod 2K; Arrow Custom - 29.0" 45°;

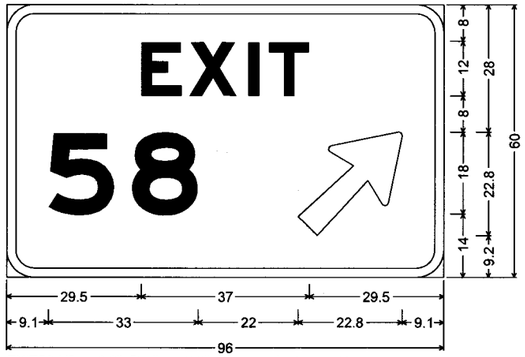


EXIT53-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [53] E Mod 2K; Arrow Custom - 29.0" 45°;

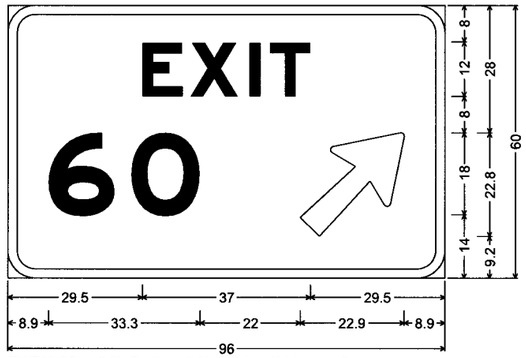


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02225	45	194

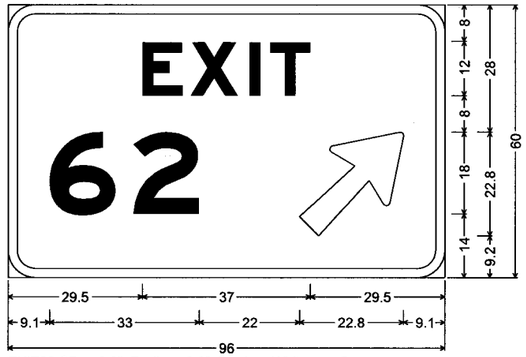
② SIGN LAYOUT SHEET



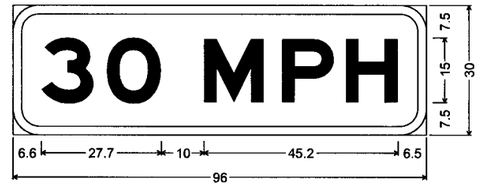
EXIT58-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [58] E Mod 2K; Arrow Custom - 29.0" 45°;



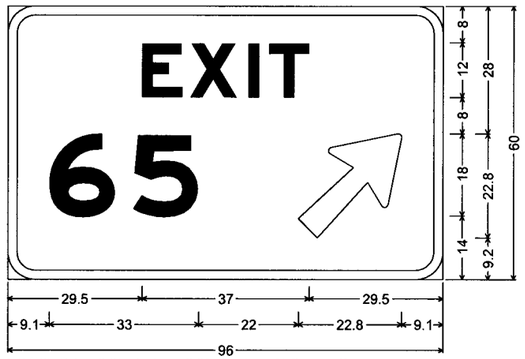
EXIT60-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [60] E Mod 2K; Arrow Custom - 29.0" 45°;



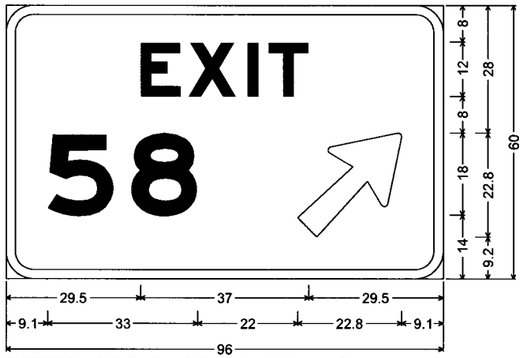
EXIT62-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [62] E Mod 2K; Arrow Custom - 29.0" 45°;



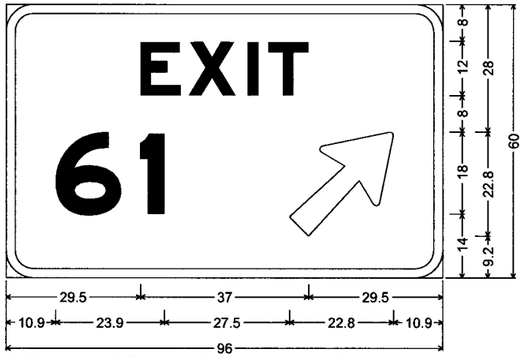
EXIT21-SB-AUX;
6.0" Radius, 2.0" Border, Black on Yellow;
[30] E Mod 2K; [MPH] E Mod 2K;



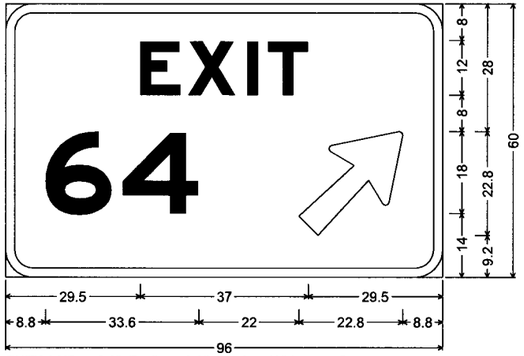
EXIT65-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [65] E Mod 2K; Arrow Custom - 29.0" 45°;



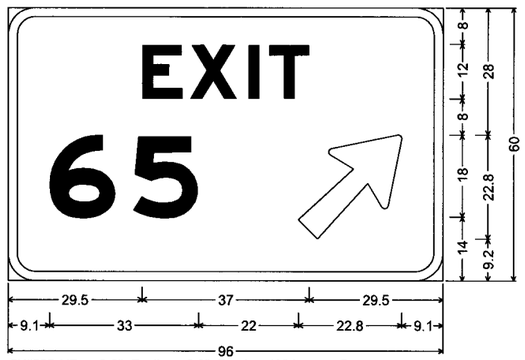
EXIT58-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [58] E Mod 2K; Arrow Custom - 29.0" 45°;



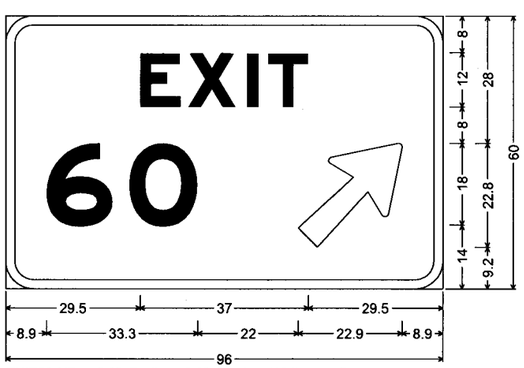
EXIT61-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [61] E Mod 2K; Arrow Custom - 29.0" 45°;



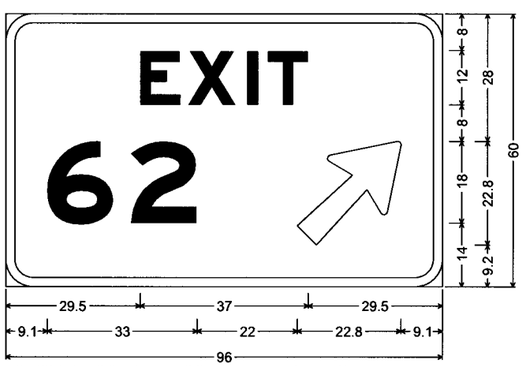
EXIT64-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [64] E Mod 2K; Arrow Custom - 29.0" 45°;



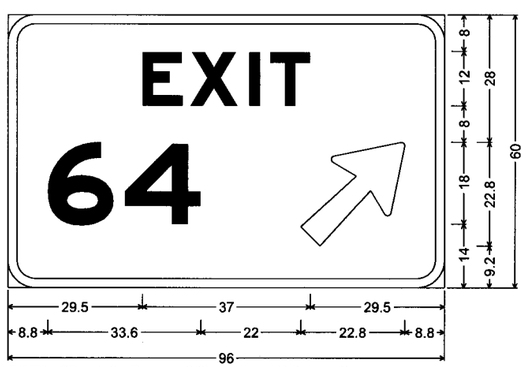
EXIT65-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [65] E Mod 2K; Arrow Custom - 29.0" 45°;



EXIT60-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [60] E Mod 2K; Arrow Custom - 29.0" 45°;



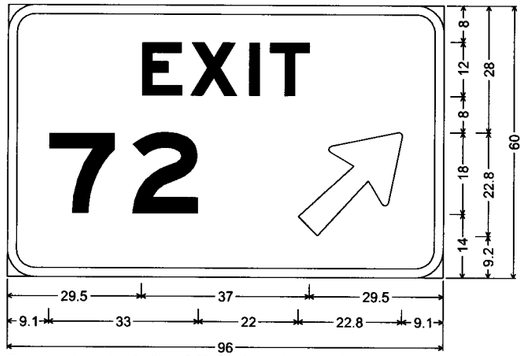
EXIT62-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [62] E Mod 2K; Arrow Custom - 29.0" 45°;



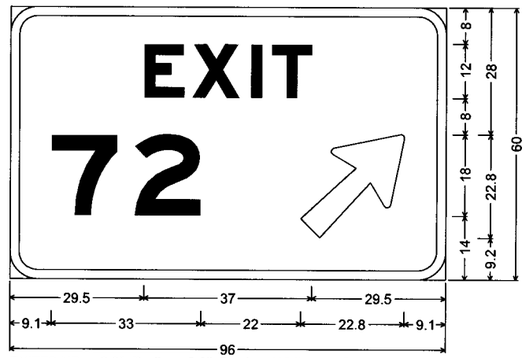
EXIT64-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [64] E Mod 2K; Arrow Custom - 29.0" 45°;

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	96	194

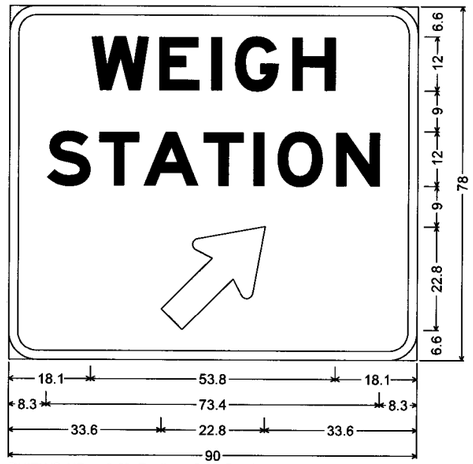
SIGN LAYOUT SHEET



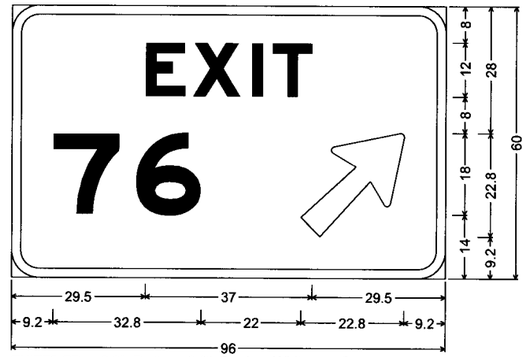
EXIT72-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [72] E Mod 2K; Arrow Custom - 29.0" 45°;



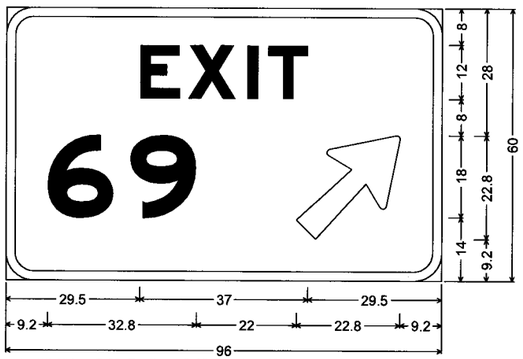
EXIT72-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [72] E Mod 2K; Arrow Custom - 29.0" 45°;



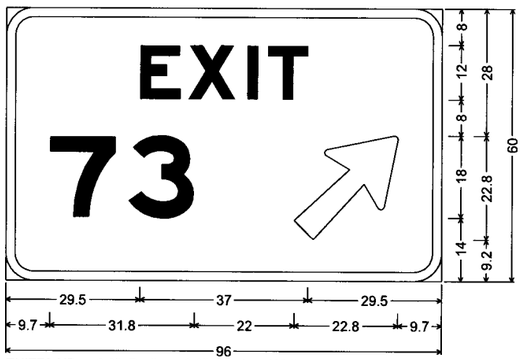
EXITWS-NB ; 6.0" Radius, 2.0" Border, White on Green;
[WEIGH] E Mod 2K; [STATION] E Mod 2K;
Standard Arrow Custom 0.0" X 17.6" 45°;



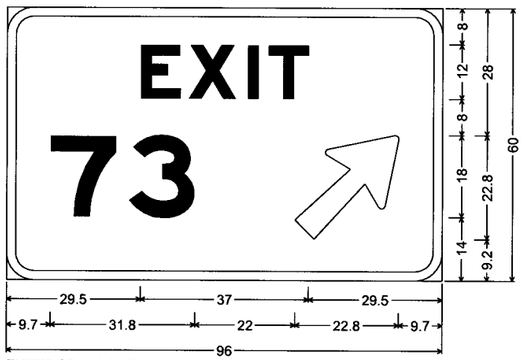
EXIT76-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [76] E Mod 2K; Arrow Custom - 29.0" 45°;



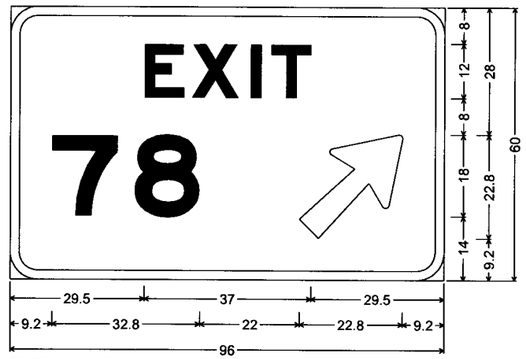
EXIT69-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [69] E Mod 2K; Arrow Custom - 29.0" 45°;



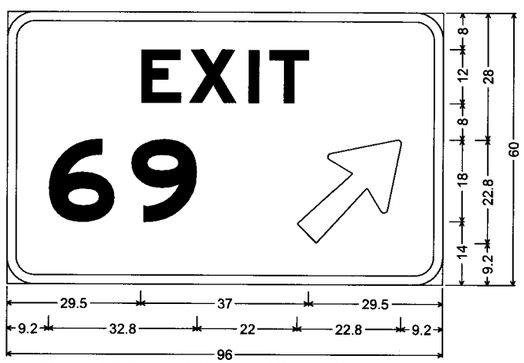
EXIT73-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [73] E Mod 2K; Arrow Custom - 29.0" 45°;



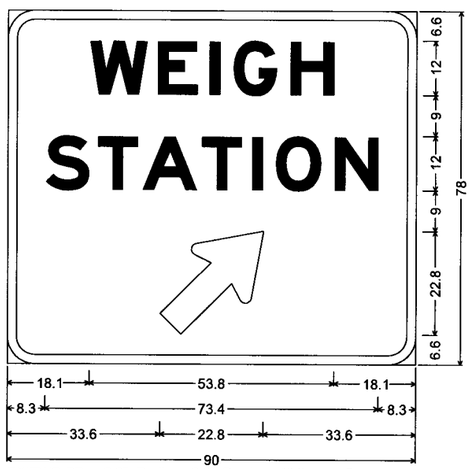
EXIT73-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [73] E Mod 2K; Arrow Custom - 29.0" 45°;



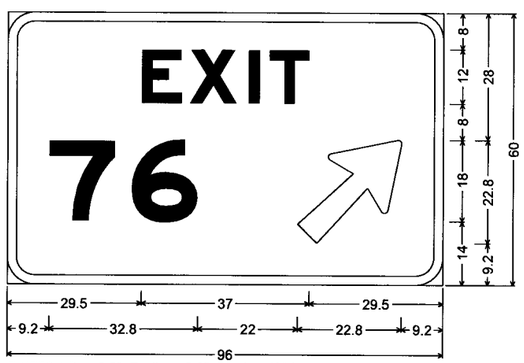
EXIT76-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [78] E Mod 2K; Arrow Custom - 29.0" 45°;



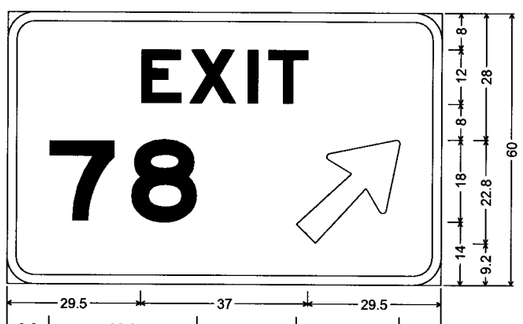
EXIT69-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [69] E Mod 2K; Arrow Custom - 29.0" 45°;



EXITWS-SB ; 6.0" Radius, 2.0" Border, White on Green;
[WEIGH] E Mod 2K; [STATION] E Mod 2K;
Standard Arrow Custom 0.0" X 17.6" 45°;



EXIT76-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [76] E Mod 2K; Arrow Custom - 29.0" 45°;

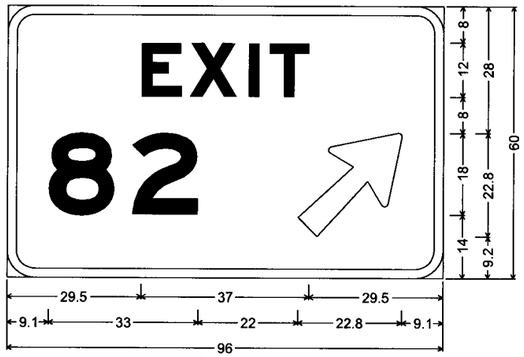


EXIT76-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [78] E Mod 2K; Arrow Custom - 29.0" 45°;

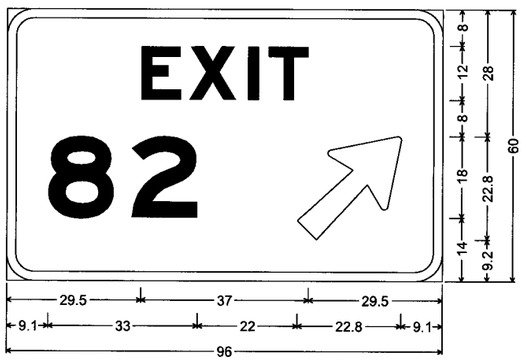
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-18
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	97	194

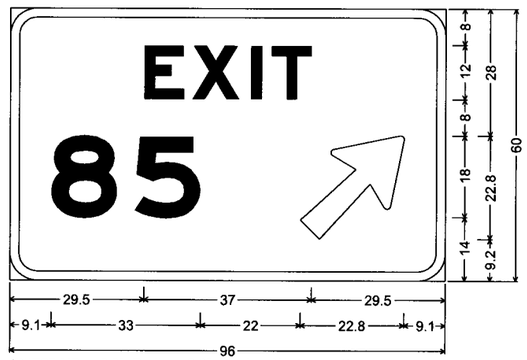
② SIGN LAYOUT SHEET



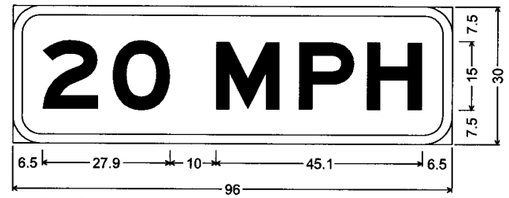
EXIT82-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [82] E Mod 2K; Arrow Custom - 29.0" 45°;



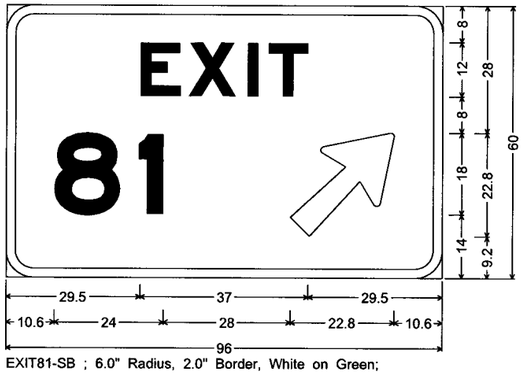
EXIT82-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [82] E Mod 2K; Arrow Custom - 29.0" 45°;



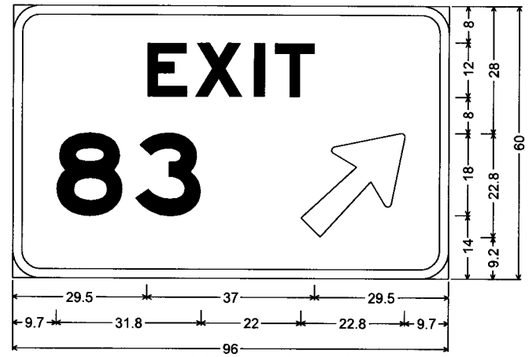
EXIT85-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [85] E Mod 2K; Arrow Custom - 29.0" 45°;



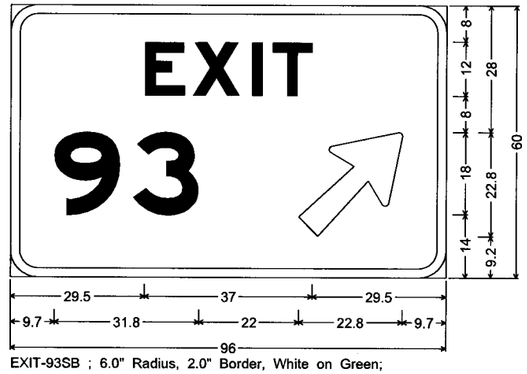
EXIT65-NB-AUX;
6.0" Radius, 2.0" Border, Black on Yellow;
[20] E Mod 2K; [MPH] E Mod 2K;



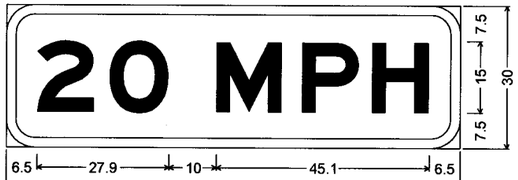
EXIT81-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [81] E Mod 2K; Arrow Custom - 29.0" 45°;



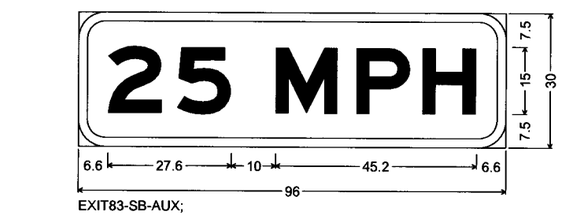
EXIT83-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [83] E Mod 2K; Arrow Custom - 29.0" 45°;



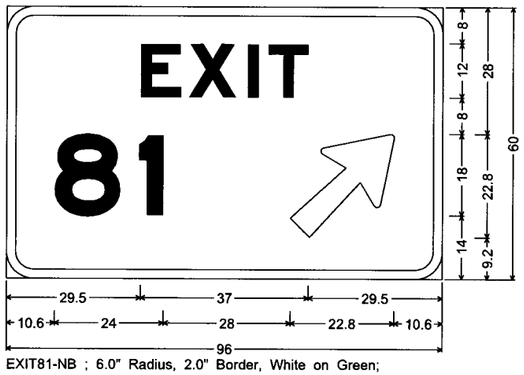
EXIT-93SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [93] E Mod 2K; Arrow Custom - 29.0" 45°;



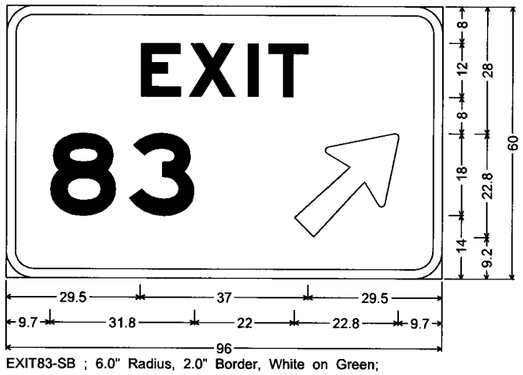
EXIT65-SB-AUX;
6.0" Radius, 2.0" Border, Black on Yellow;
[20] E Mod 2K; [MPH] E Mod 2K;



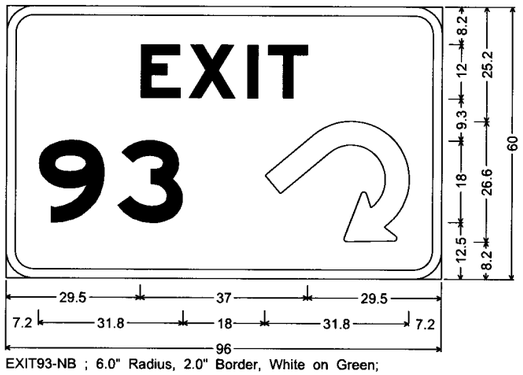
EXIT83-SB-AUX;
6.0" Radius, 2.0" Border, Black on Yellow;
[25] E Mod 2K; [MPH] E Mod 2K;



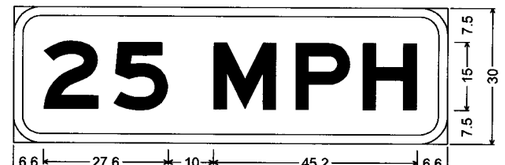
EXIT81-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [81] E Mod 2K; Arrow Custom - 29.0" 45°;



EXIT83-SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [83] E Mod 2K; Arrow Custom - 29.0" 45°;



EXIT93-NB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [93] E Mod 2K; Turn Arrow Custom White;



EXIT93-NB-AUX;
6.0" Radius, 2.0" Border, Black on Yellow;
[25] E Mod 2K; [MPH] E Mod 2K;

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				JOB NO.		012225	98	194

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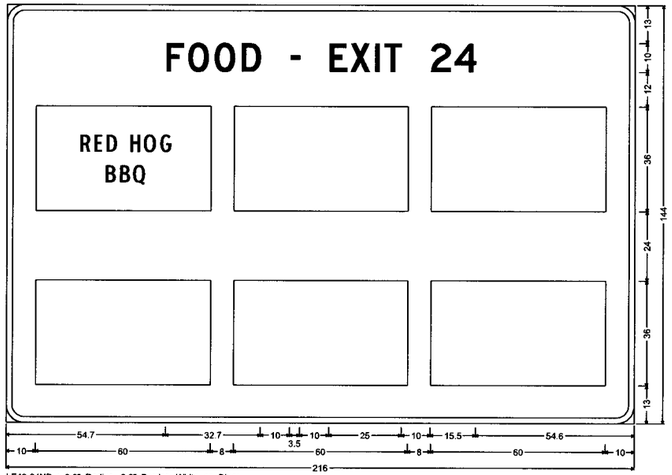
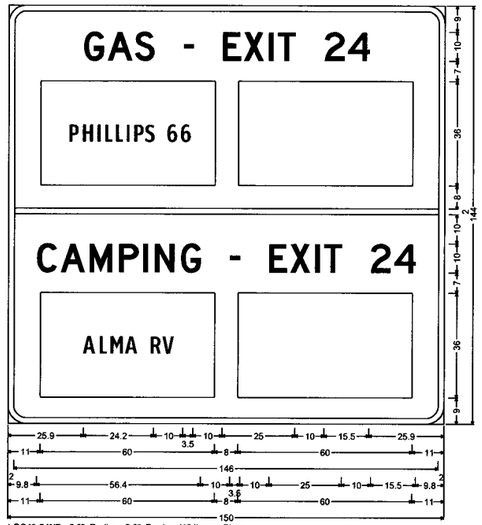
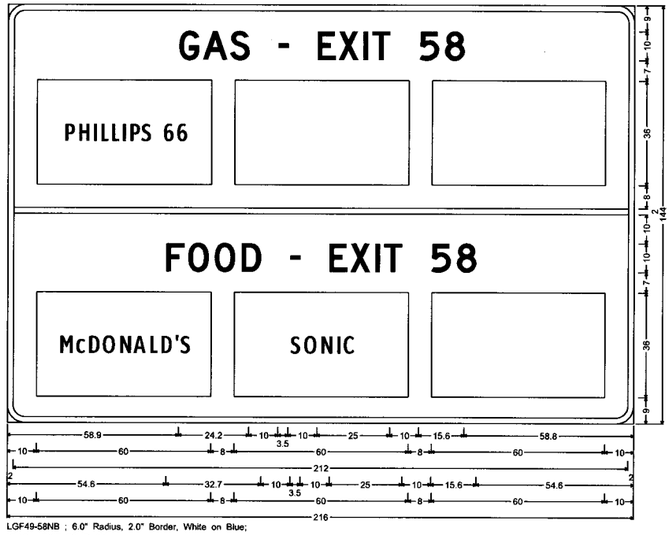


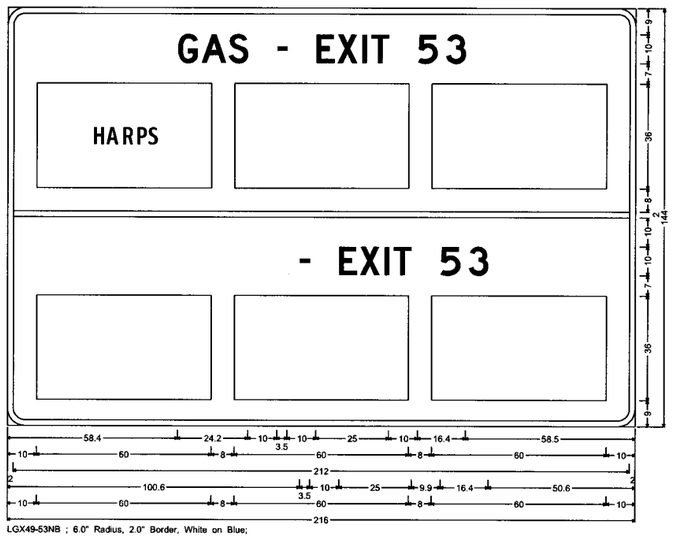
LF49-24NB ; 6.0" Radius, 2.0" Border, White on Blue;
[F00D - EXIT 24] D 2K;



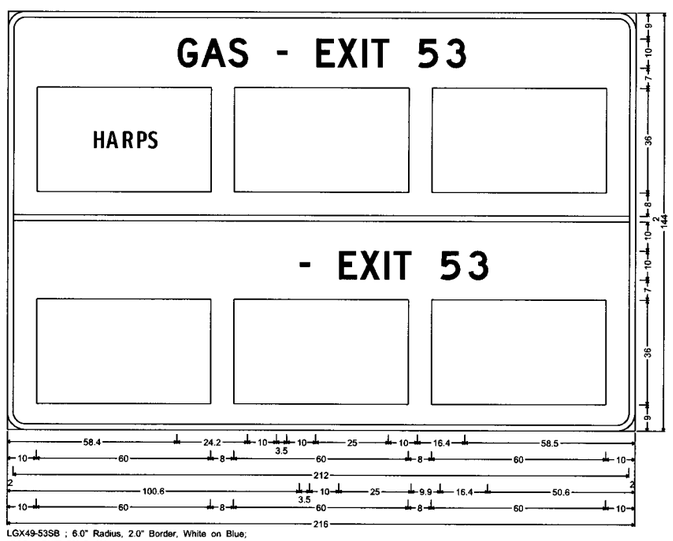
LGC49-24NB, 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 24] D 2K;
[CAMPING - EXIT 24] D 2K;



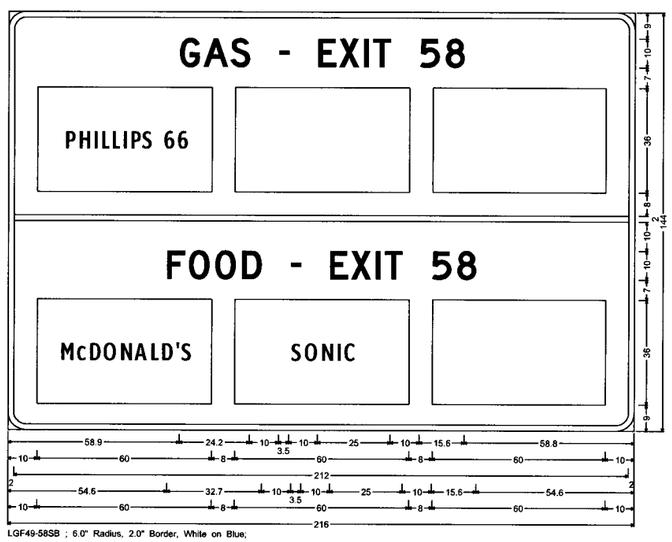
LGF49-58NB ; 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 58] D 2K;
[FOOD - EXIT 58] D 2K;



LGX49-53NB ; 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 53] D 2K;
[- EXIT 53] D 2K;



LGX49-53SB ; 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 53] D 2K;
[- EXIT 53] D 2K;



LGF49-58SB ; 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 58] D 2K;
[FOOD - EXIT 58] D 2K;

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No. 7527
JOSEPH A. SARTIN
6-22-18

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				6	ARK.			
				JOB NO.		0225	99	104

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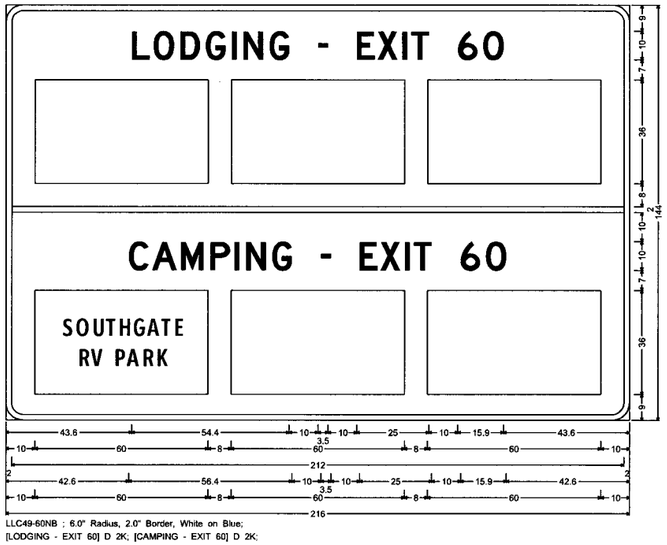
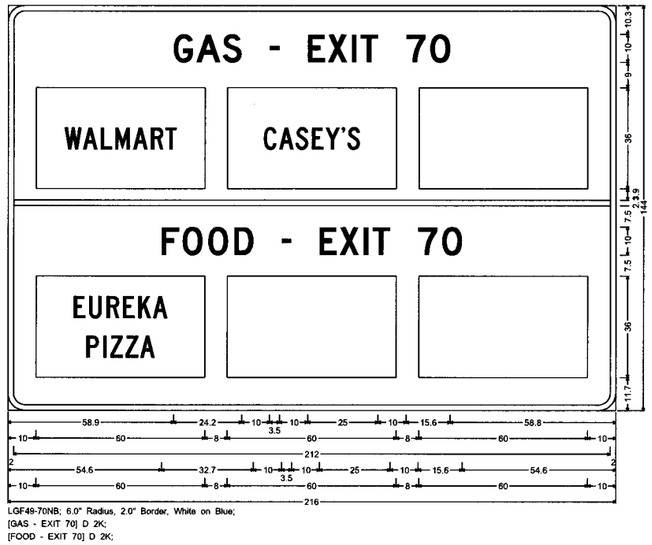
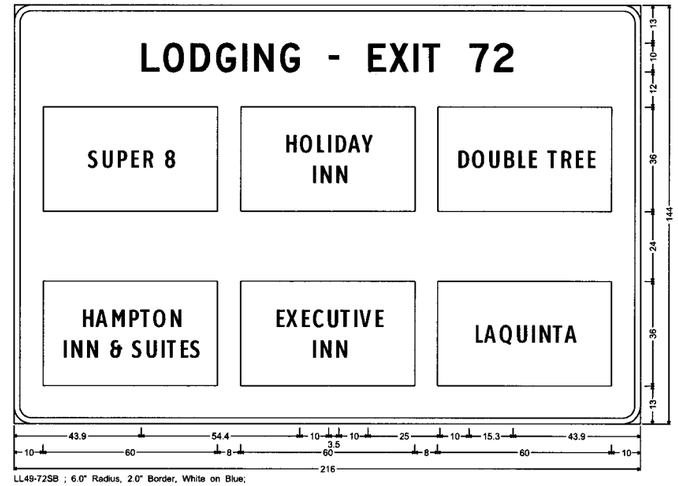


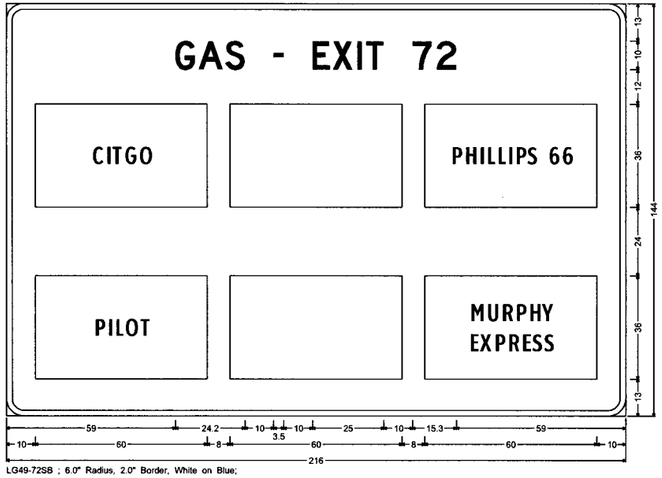
LLC49-60NB ; 6.0" Radius, 2.0" Border, White on Blue;
[LODGING - EXIT 60] D 2K; [CAMPING - EXIT 60] D 2K;



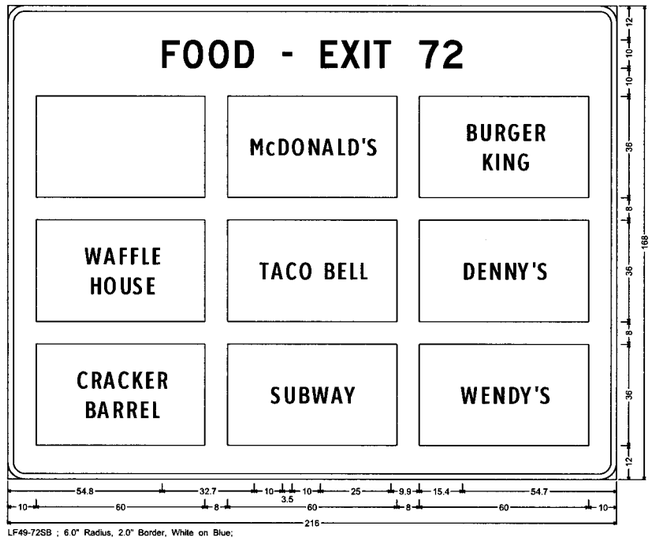
LGF49-70NB; 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 70] D 2K;
[FOOD - EXIT 70] D 2K;



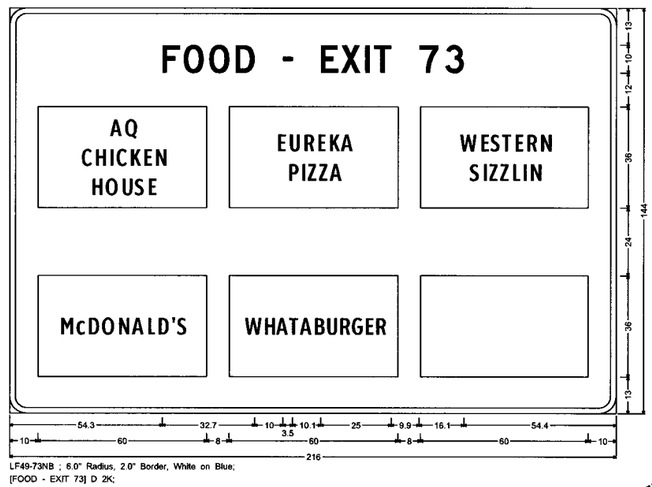
LL49-72SB ; 6.0" Radius, 2.0" Border, White on Blue;
[LODGING - EXIT 72] D 2K;



LG49-72SB ; 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 72] D 2K;



LF49-72SB ; 6.0" Radius, 2.0" Border, White on Blue;
[FOOD - EXIT 72] D 2K;



LF49-73NB ; 6.0" Radius, 2.0" Border, White on Blue;
[FOOD - EXIT 73] D 2K;

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No. 7527
6-21-19
JOSEPH A. SARTIN

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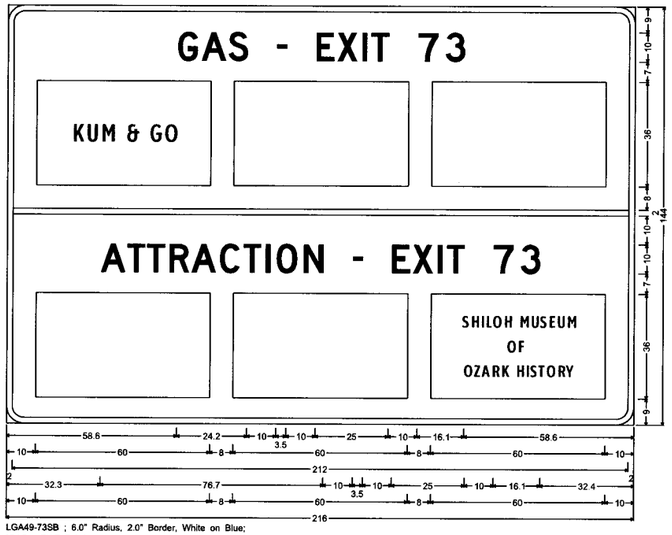
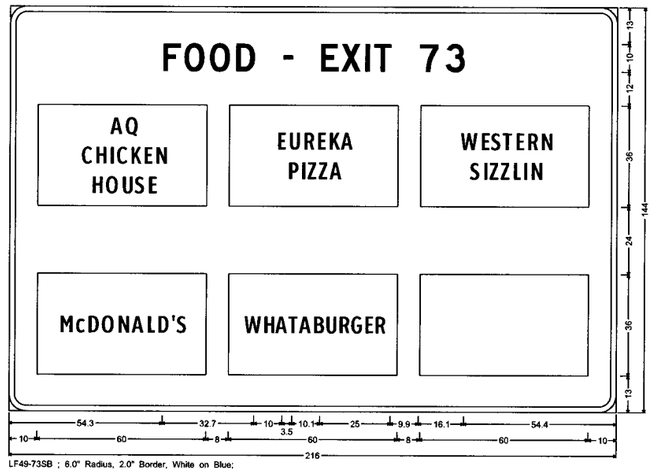
				6	ARK.			
				JOB NO.		02225	100	194

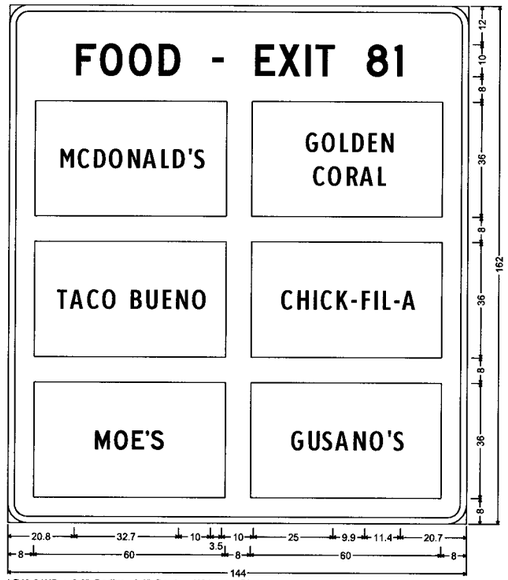
② SIGN LAYOUT SHEET



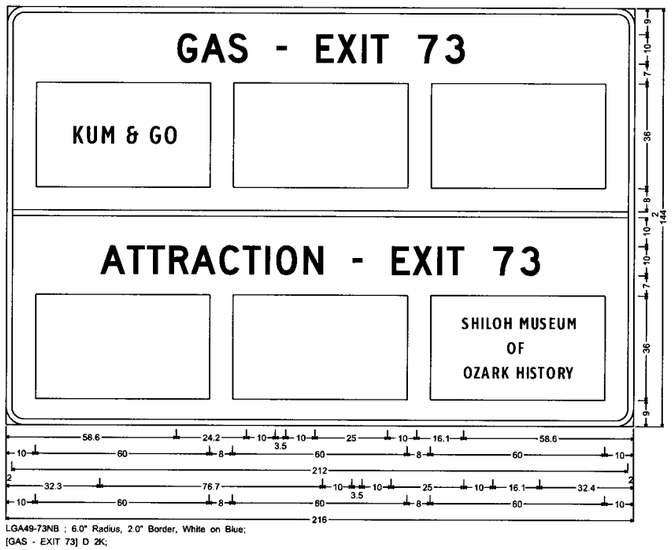
LGA49-73SB ; 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 73] D 2K;
[ATTRACTION - EXIT 73] D 2K;



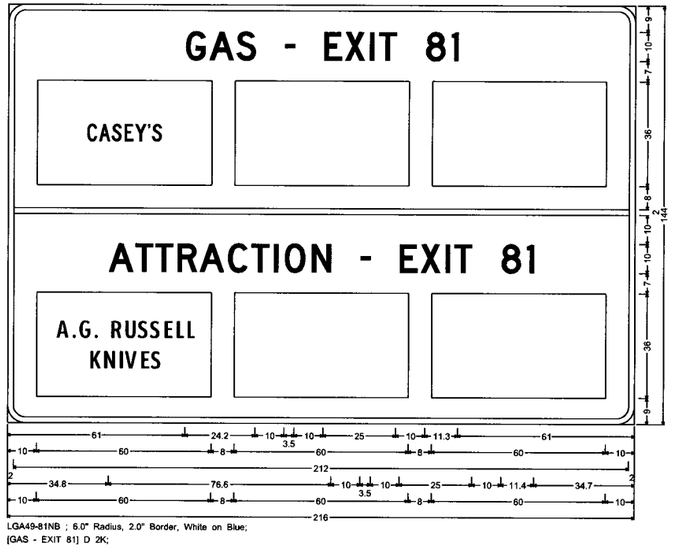
LF49-73SB ; 6.0" Radius, 2.0" Border, White on Blue;
[FOOD - EXIT 73] D 2K;



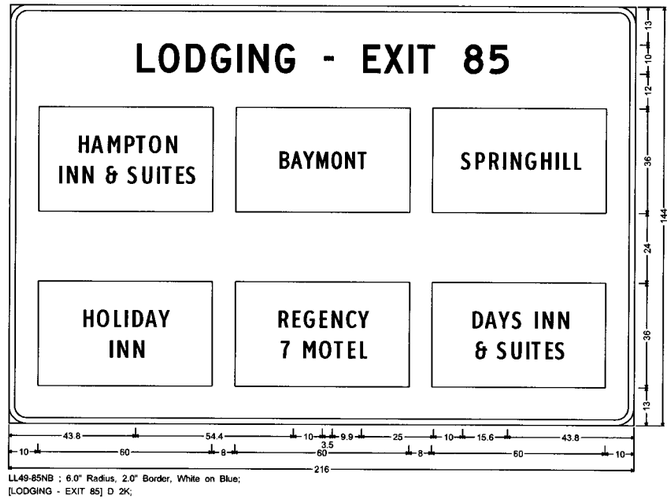
LF49-81NB ; 6.0" Radius, 2.0" Border, White on Blue;
[FOOD - EXIT 81] D 2K;



LGA49-73NB ; 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 73] D 2K;
[ATTRACTION - EXIT 73] D 2K;



LGA49-81NB ; 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 81] D 2K;
[ATTRACTION - EXIT 81] D 2K;



LL49-85NB ; 6.0" Radius, 2.0" Border, White on Blue;
[LODGING - EXIT 85] D 2K;

STATE OF ARKANSAS
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6-22-12
JOSEPH A. SARTIN

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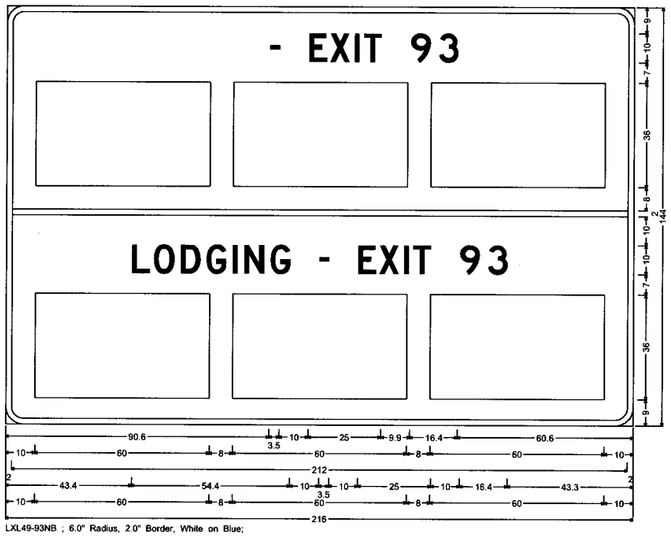
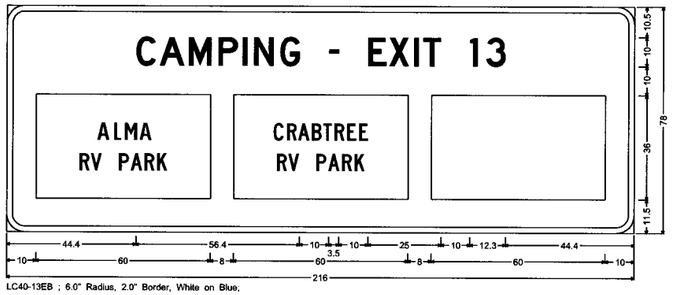
				6	ARK.			
				JOB NO.		01225	101	194

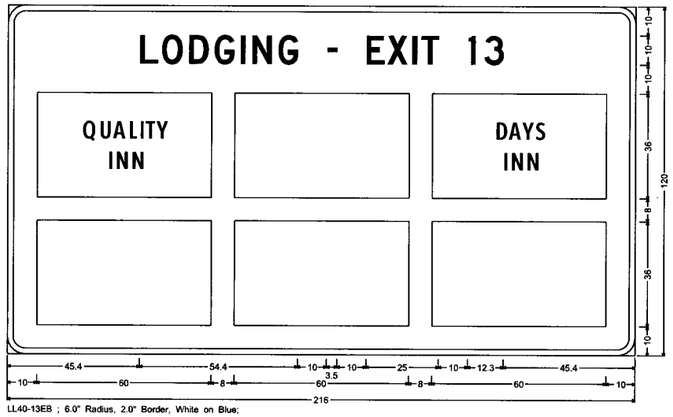
② SIGN LAYOUT SHEET



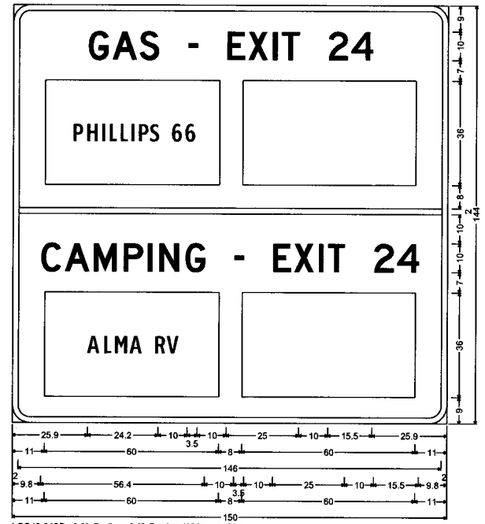
LXL49-93NB ; 6.0" Radius, 2.0" Border, White on Blue;
[- EXIT 93] D 2K; [LODGING - EXIT 93] D 2K;



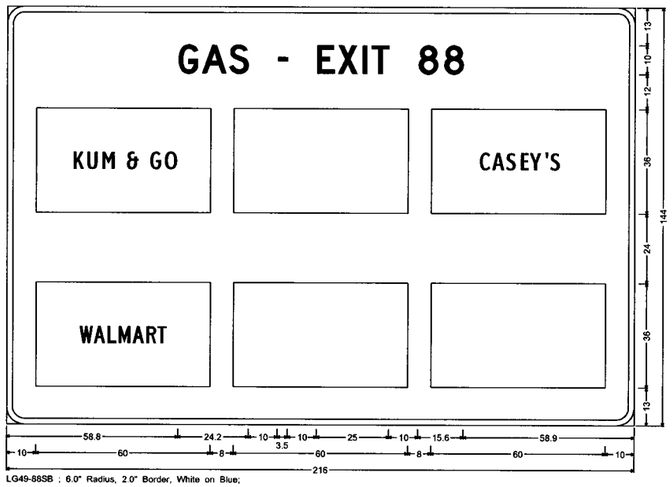
LC40-13EB ; 6.0" Radius, 2.0" Border, White on Blue;
[CAMPING - EXIT 13] D 2K;



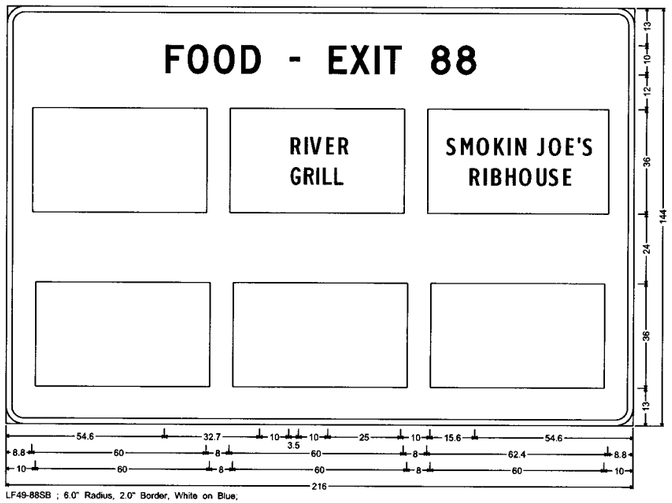
LL40-13EB ; 6.0" Radius, 2.0" Border, White on Blue;
[LODGING - EXIT 13] D 2K;



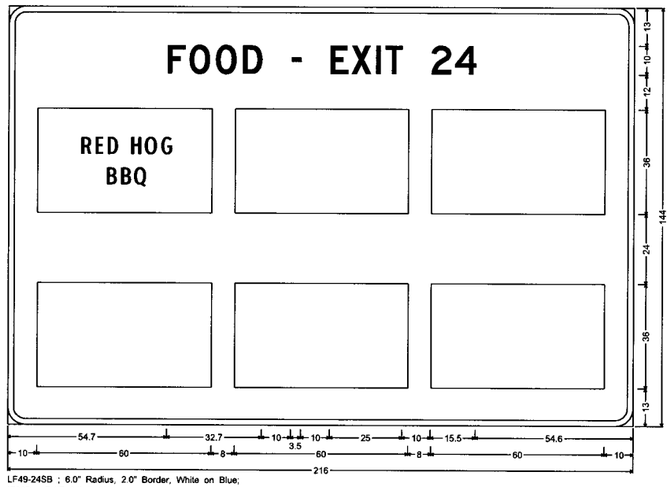
LGC49-24SB; 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 24] D 2K;
[CAMPING - EXIT 24] D 2K;



LG49-88SB ; 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 88] D 2K;



LF49-88SB ; 6.0" Radius, 2.0" Border, White on Blue;
[FOOD - EXIT 88] D 2K;



LF49-24SB ; 6.0" Radius, 2.0" Border, White on Blue;
[FOOD - EXIT 24] D 2K;

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No. 7527
JOSEPH A. SARTIN
4-22-19

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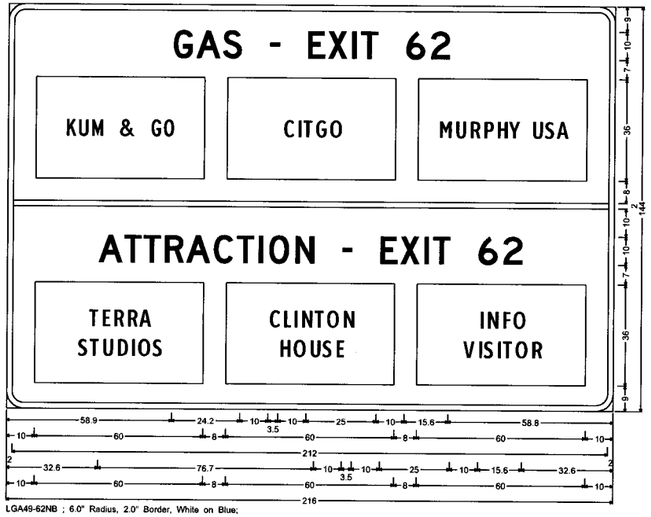
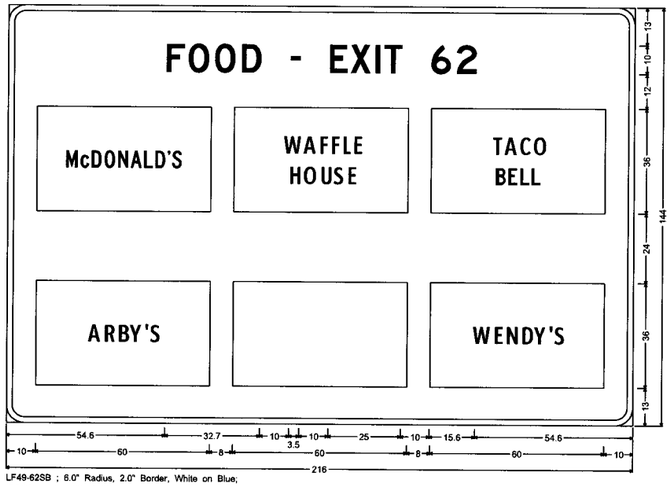
				6	ARK.			
				JOB NO.		012215	102	194

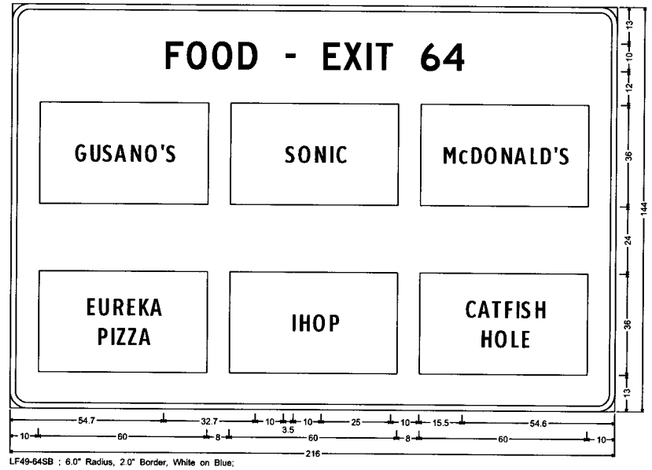
② SIGN LAYOUT SHEET



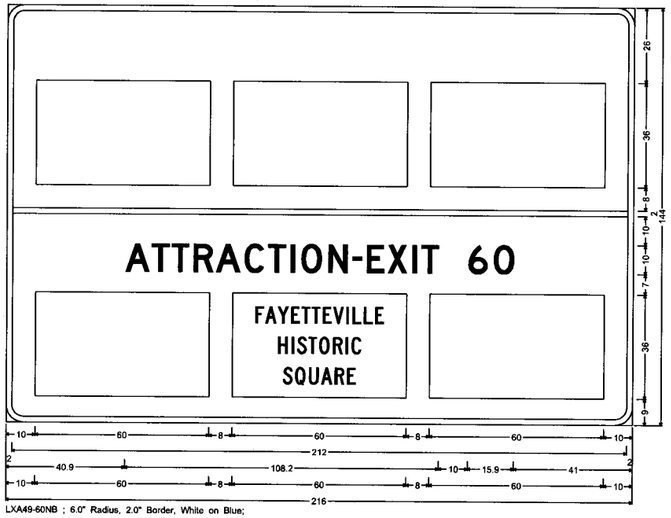
LGA49-62NB ; 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 62] D 2K;
[ATTRACTION - EXIT 62] D 2K;



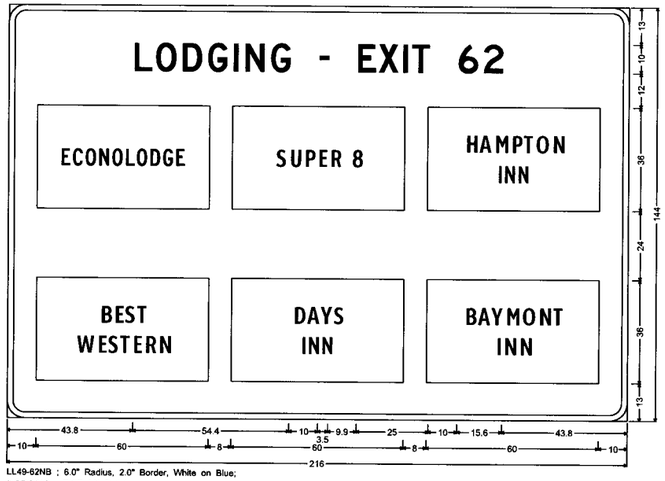
LF49-62SB ; 6.0" Radius, 2.0" Border, White on Blue;
[FOOD - EXIT 62] D 2K;



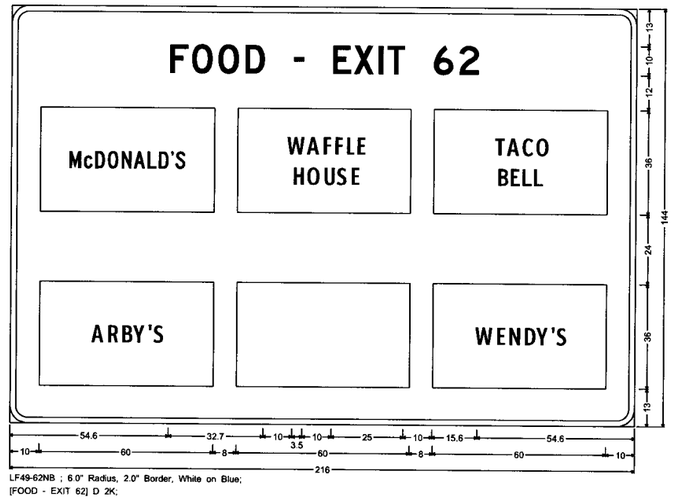
LF49-64SB ; 6.0" Radius, 2.0" Border, White on Blue;
[FOOD - EXIT 64] D 2K;



LXA49-60NB ; 6.0" Radius, 2.0" Border, White on Blue;
[] Clearview Hwy-2-W; [ATTRACTION-EXIT 60] D 2K;



LL49-62NB ; 6.0" Radius, 2.0" Border, White on Blue;
[LODGING - EXIT 62] D 2K;



LF49-62NB ; 6.0" Radius, 2.0" Border, White on Blue;
[FOOD - EXIT 62] D 2K;

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6-22-12
JOSEPH A. SARTINO

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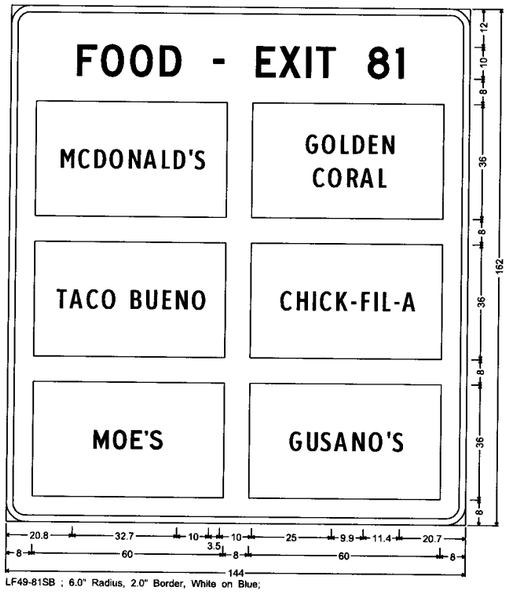
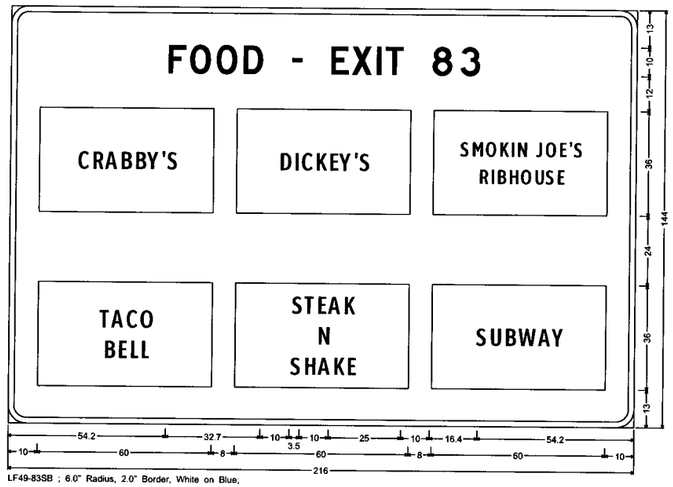
				6	ARK.			
				JOB NO.		02225	103	194

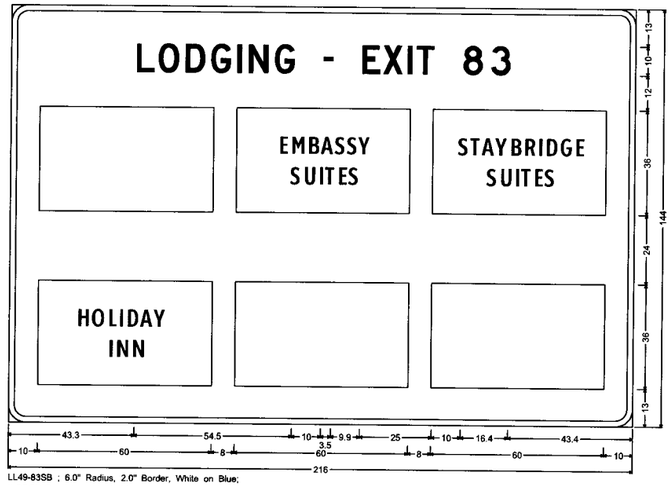
(2) SIGN LAYOUT SHEET



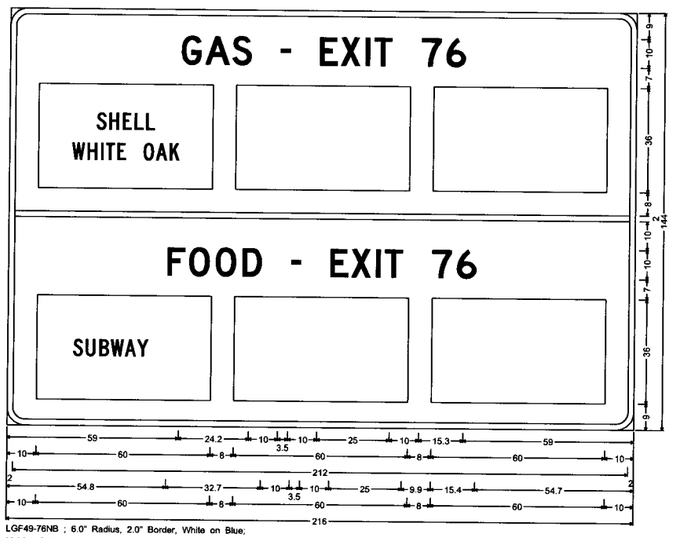
LF49-81SB ; 6.0" Radius, 2.0" Border, White on Blue;
[FOOD - EXIT 81] D 2K;



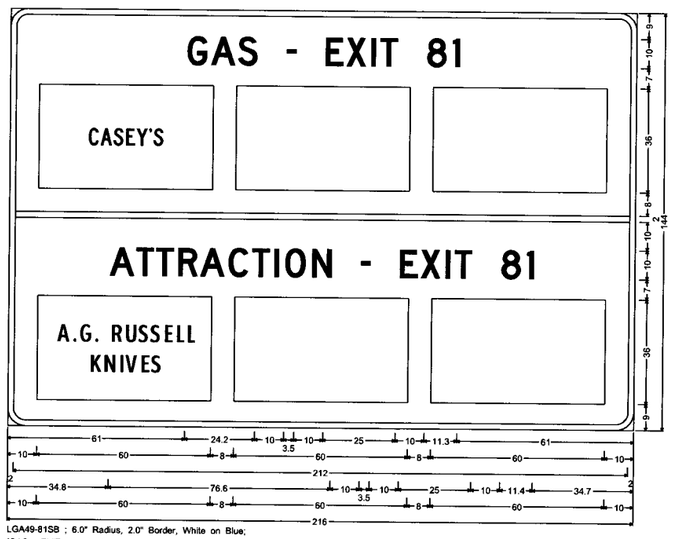
LF49-83SB ; 6.0" Radius, 2.0" Border, White on Blue;
[FOOD - EXIT 83] D 2K;



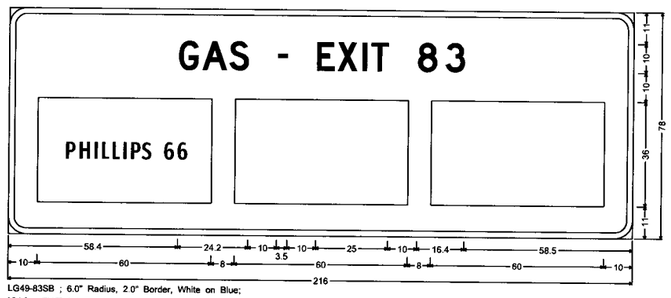
LL49-83SB ; 6.0" Radius, 2.0" Border, White on Blue;
[LODGING - EXIT 83] D 2K;



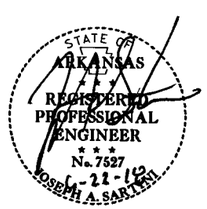
LGF49-76NB ; 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 76] D 2K;
[FOOD - EXIT 76] D 2K;



LGA49-81SB ; 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 81] D 2K;
[ATTRACTION - EXIT 81] D 2K;



LG49-83SB ; 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 83] D 2K;



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				JOB NO.		012215	104	194

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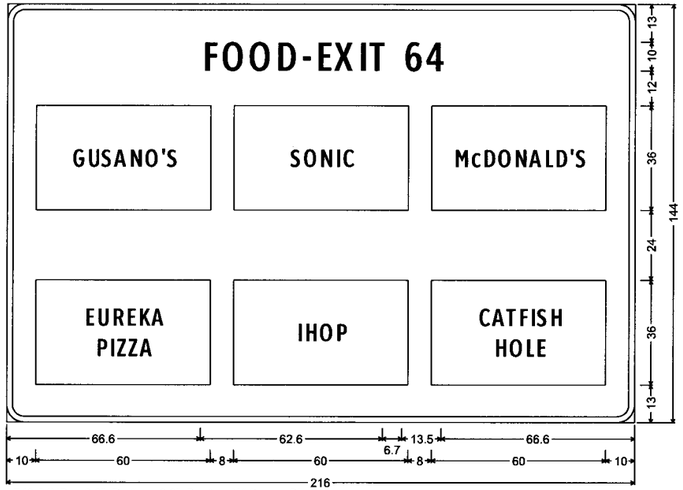
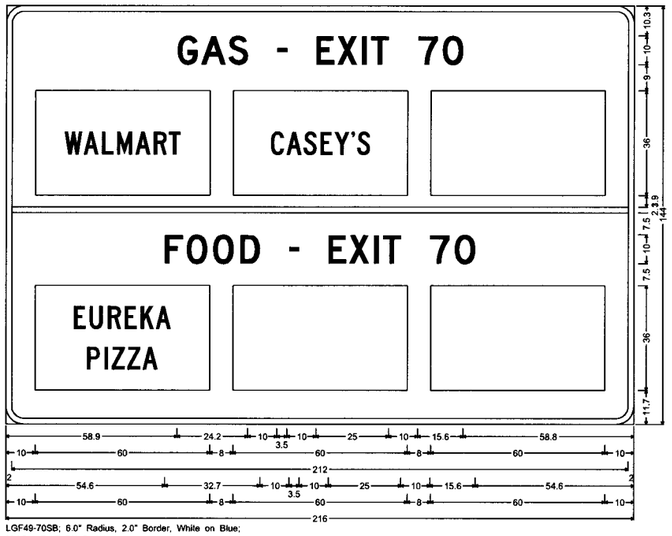
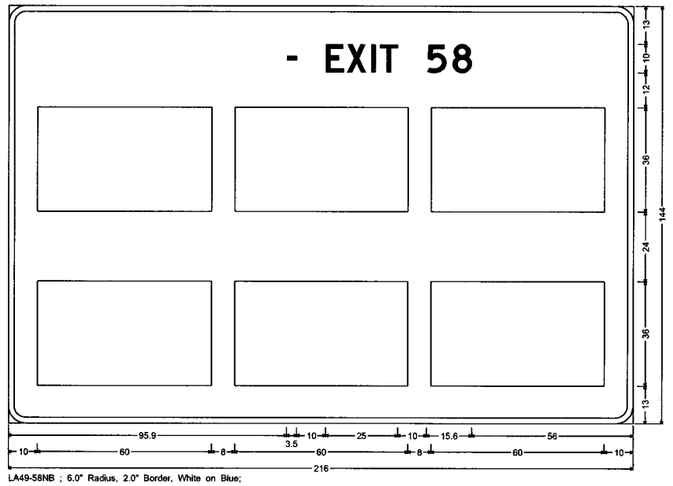


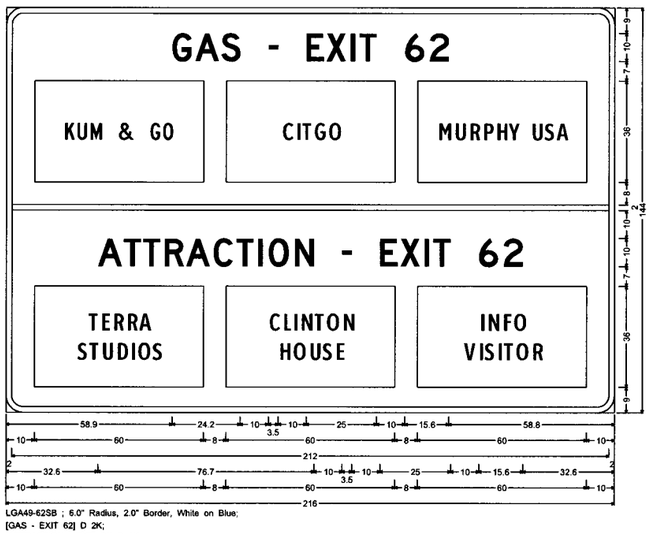
LF49-64NB ; 6.0" Radius, 2.0" Border, White on Blue;
[FOOD-EXIT 64] ClearviewHwy-2-W;



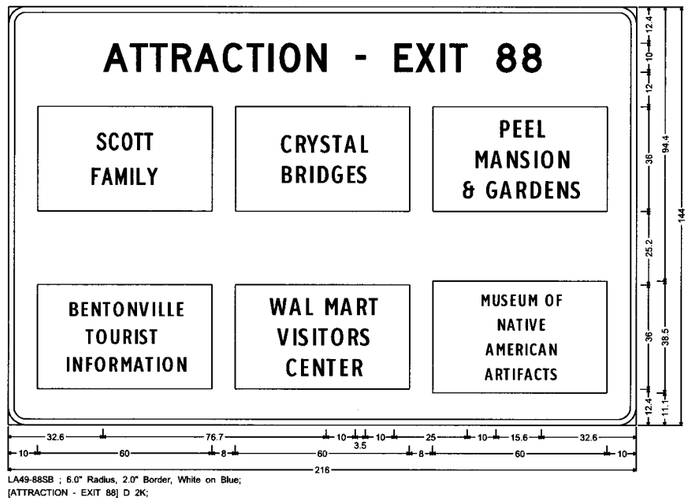
LGF49-70SB; 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 70] D 2K;
[FOOD - EXIT 70] D 2K;



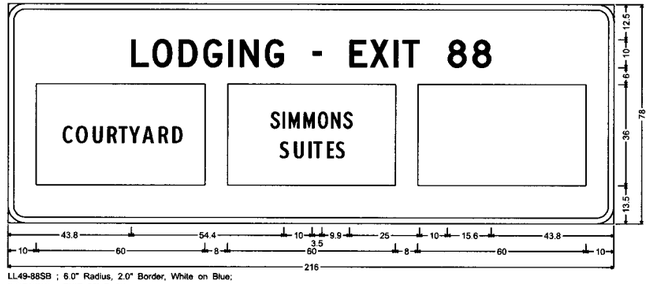
LA49-58NB ; 6.0" Radius, 2.0" Border, White on Blue;
[- EXIT 58] D 2K;



LGA49-62SB ; 6.0" Radius, 2.0" Border, White on Blue;
[GAS - EXIT 62] D 2K;
[ATTRACTION - EXIT 62] D 2K;



LA49-88SB ; 6.0" Radius, 2.0" Border, White on Blue;
[ATTRACTION - EXIT 88] D 2K;



LL49-88SB ; 6.0" Radius, 2.0" Border, White on Blue;
[LODGING - EXIT 88] D 2K;

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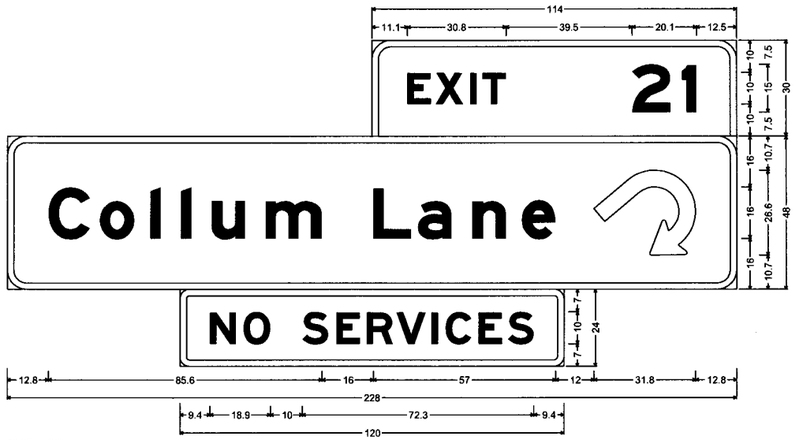
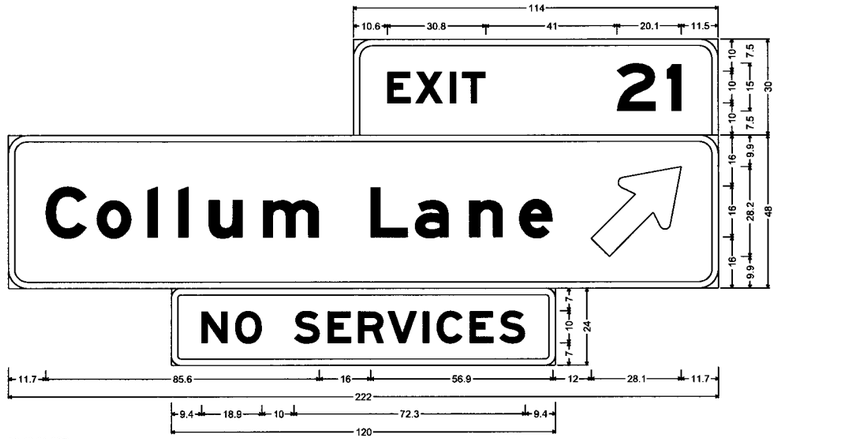
				JOB NO.		02225	105	194

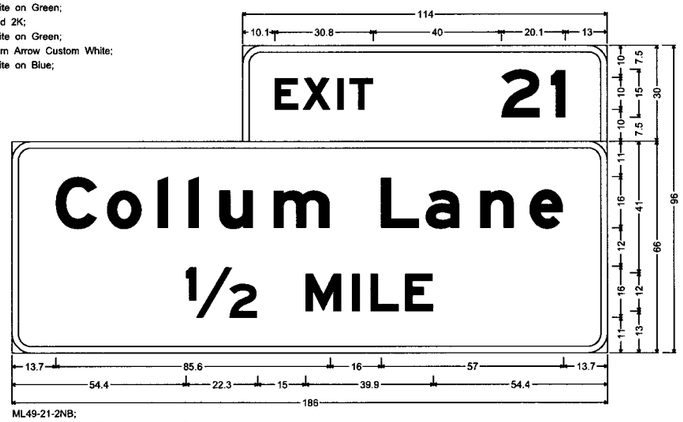
② SIGN LAYOUT SHEET



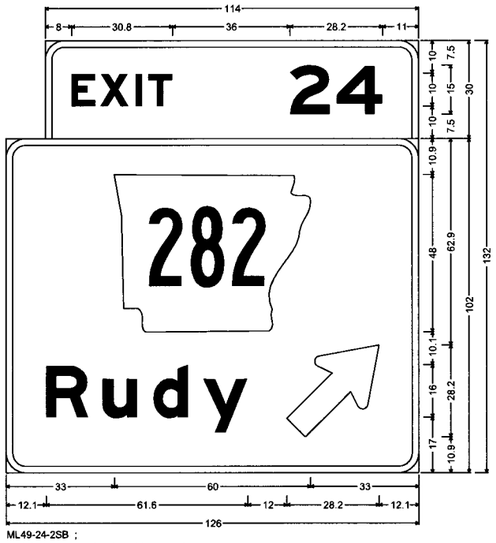
ML49-21-3NB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [21] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Collum Lane] E Mod 2K; Turn Arrow Custom White;
3.0" Radius, 2.0" Border, White on Blue;
[NO SERVICES] E Mod 2K;



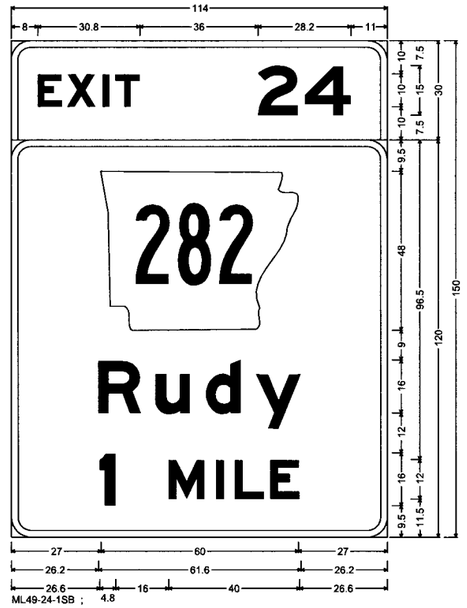
ML49-21-3SB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [21] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Collum Lane] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;
3.0" Radius, 2.0" Border, White on Blue;
[NO SERVICES] E Mod 2K;



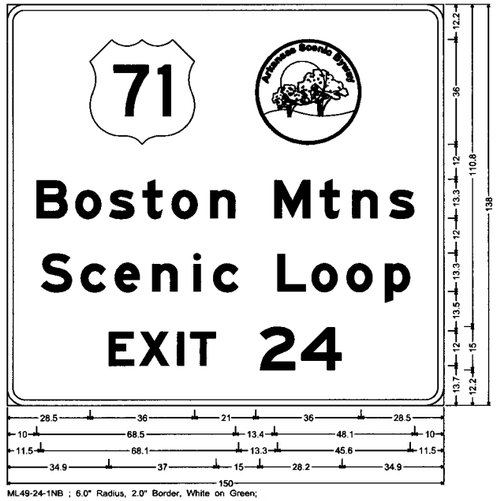
ML49-21-2NB;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [21] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Collum Lane] E Mod 2K; [½] E Mod 2K; [MILE] E Mod 2K;



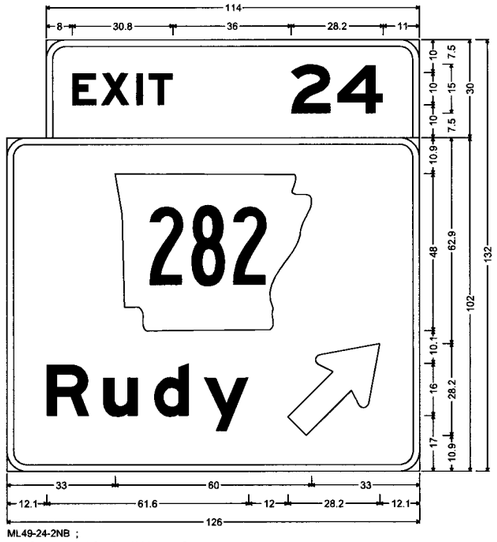
ML49-24-2SB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [24] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Rudy] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;



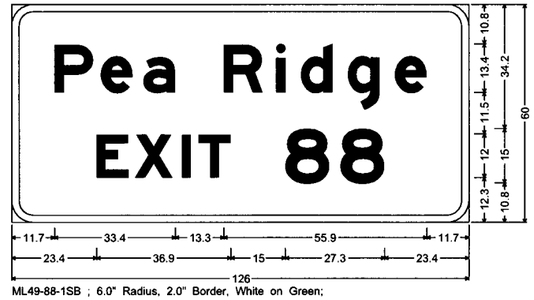
ML49-24-1SB ; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [24] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Rudy] E Mod 2K; [1 MILE] E Mod 2K;



ML49-24-1NB ; 6.0" Radius, 2.0" Border, White on Green;
SCENIC BYWAY; [Boston Mtns] E Mod 2K; [Scenic Loop] E Mod 2K; [EXIT] E Mod 2K;
[24] E Mod 2K;



ML49-24-2NB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [24] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Rudy] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;



ML49-88-1SB ; 6.0" Radius, 2.0" Border, White on Green;
[Pea Ridge] E Mod 2K; [EXIT] E Mod 2K; [88] E Mod 2K;

STATE OF ARKANSAS
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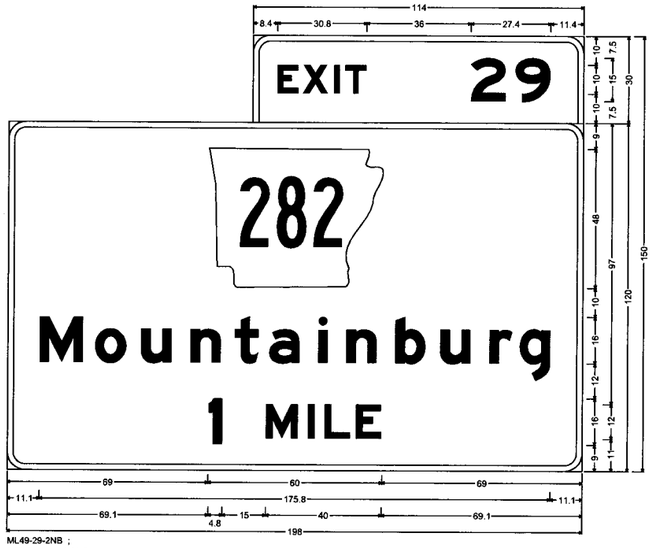
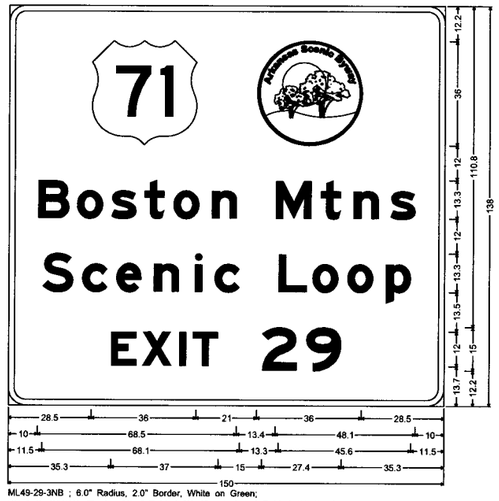
No. 7527
JOSEPH A. SARTINI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02225	106	194

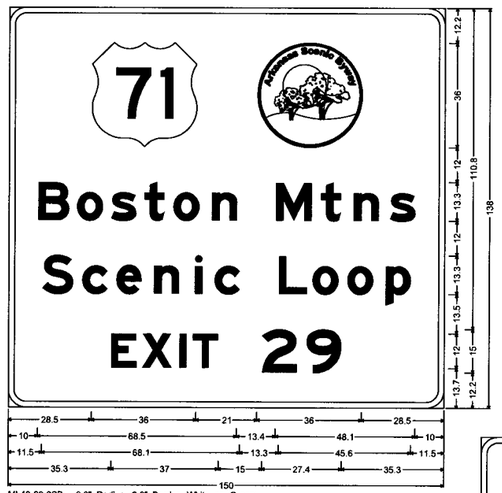
② SIGN LAYOUT SHEET



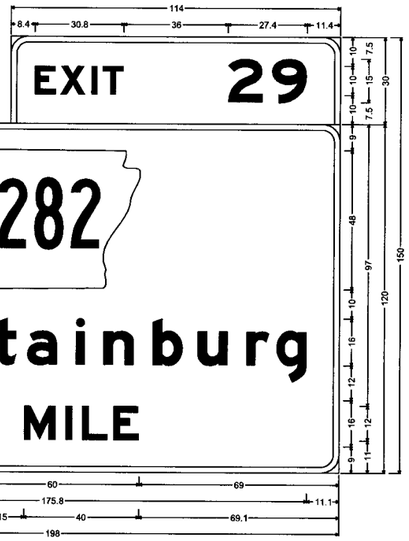
ML49-29-2NB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [29] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Mountainburg] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;



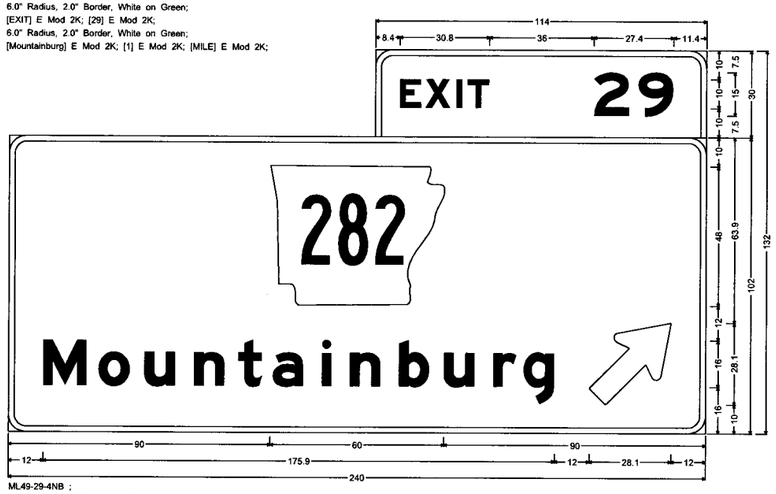
ML49-29-3NB ; 6.0" Radius, 2.0" Border, White on Green;
SCENIC BYWAY; [Boston Mtns] E Mod 2K; [Scenic Loop] E Mod 2K; [EXIT] E Mod 2K;
[29] E Mod 2K;



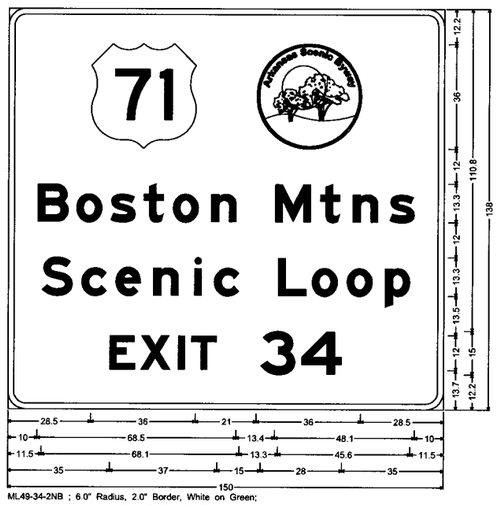
ML49-29-3SB ; 6.0" Radius, 2.0" Border, White on Green;
SCENIC BYWAY; [Boston Mtns] E Mod 2K; [Scenic Loop] E Mod 2K; [EXIT] E Mod 2K;
[29] E Mod 2K;



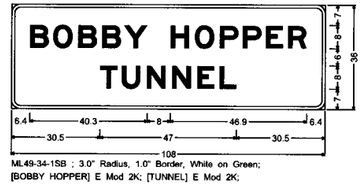
ML49-29-2SB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [29] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Mountainburg] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;



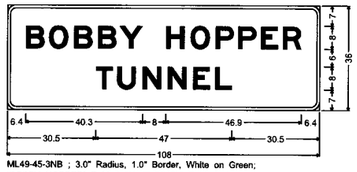
ML49-29-4NB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [29] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Mountainburg] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;



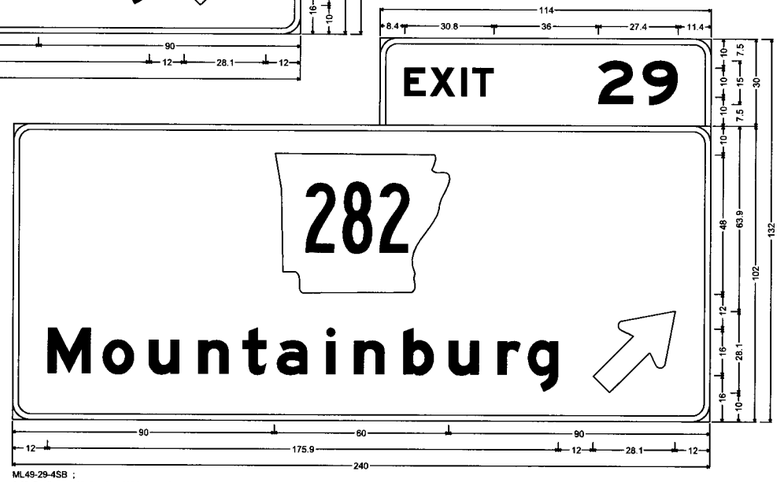
ML49-34-2NB ; 6.0" Radius, 2.0" Border, White on Green;
SCENIC BYWAY; [Boston Mtns] E Mod 2K; [Scenic Loop] E Mod 2K; [EXIT] E Mod 2K;
[34] E Mod 2K;



ML49-34-1SB ; 3.0" Radius, 1.0" Border, White on Green;
[BOBBY HOPPER] E Mod 2K; [TUNNEL] E Mod 2K;



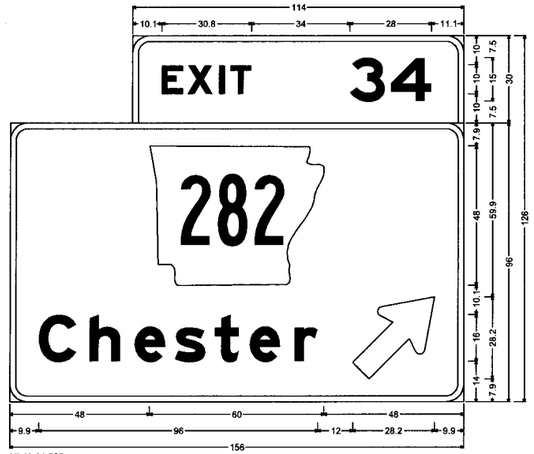
ML49-45-3NB ; 3.0" Radius, 1.0" Border, White on Green;
[BOBBY HOPPER] E Mod 2K; [TUNNEL] E Mod 2K;



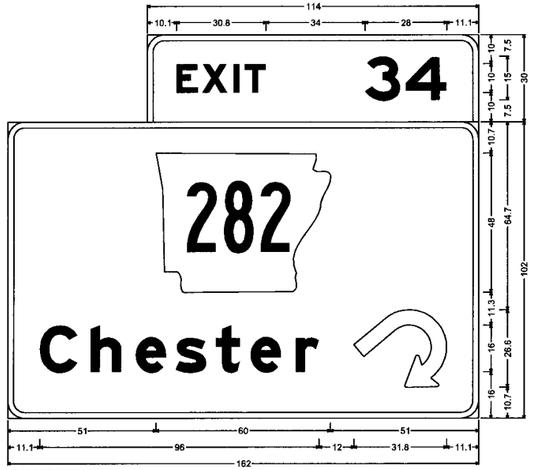
ML49-29-4SB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [29] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Mountainburg] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	107	194

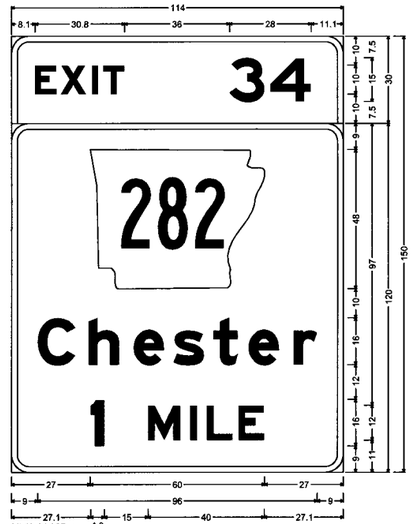
② SIGN LAYOUT SHEET



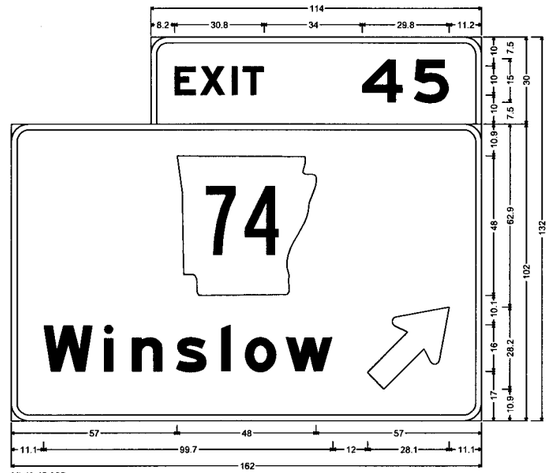
ML49-34-5SB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [34] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Chester] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;



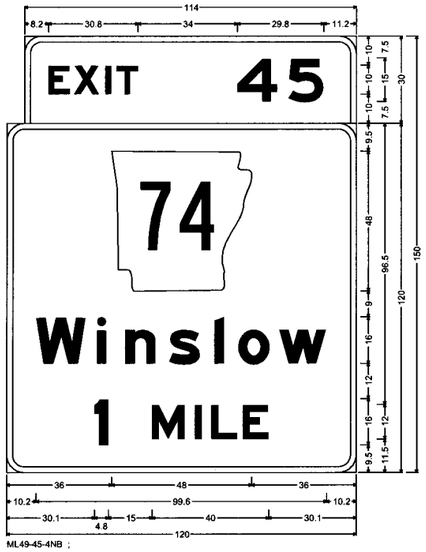
ML49-34-3NB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [34] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Chester] E Mod 2K; Turn Arrow Custom White;



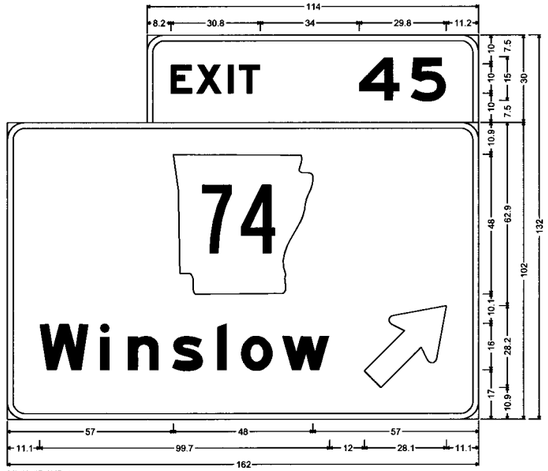
ML49-34-3SB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [34] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Chester] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;



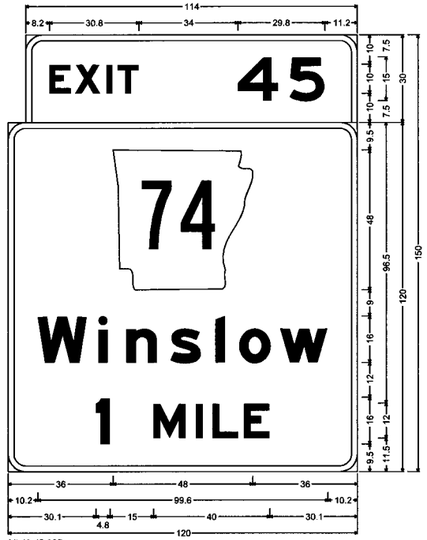
ML49-45-3SB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [45] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Winslow] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;



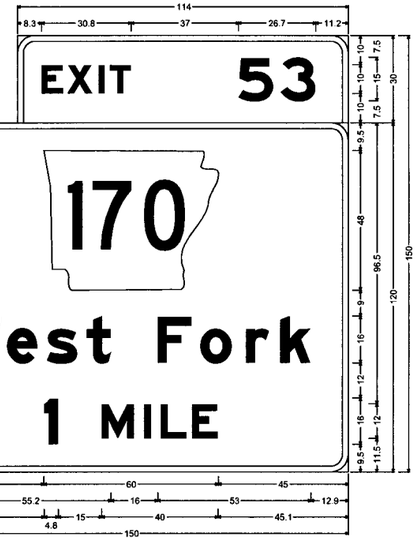
ML49-45-4NB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [45] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Winslow] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;



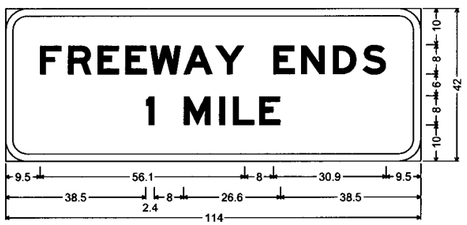
ML49-45-6NB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [45] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Winslow] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;



ML49-45-2SB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [45] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Winslow] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;

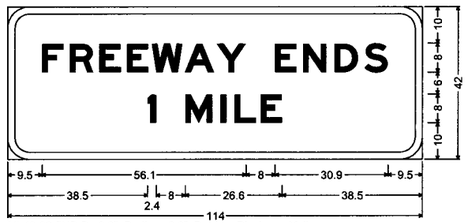


ML49-53-2NB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [53] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[West Fork] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;



ML49-93-5NB-A ; 6.0" Radius, 2.0" Border, Black on Yellow;
[FREEWAY ENDS] E Mod 2K; [1 MILE] E Mod 2K;

ML49-62-2SB; 6.0" Radius, 2.0" Border, White on Green;
[Farmington] E Mod 2K; [EXIT] E Mod 2K; [62] E Mod 2K;

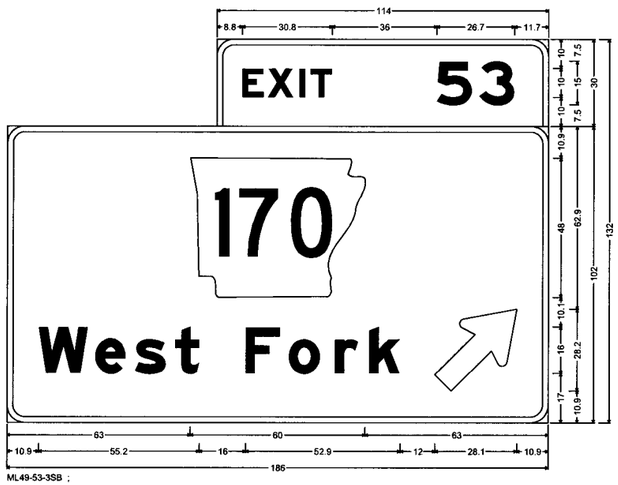


ML49-93-5NB-B; 6.0" Radius, 2.0" Border, Black on Yellow;
[FREEWAY ENDS] E Mod 2K; [1 MILE] E Mod 2K;

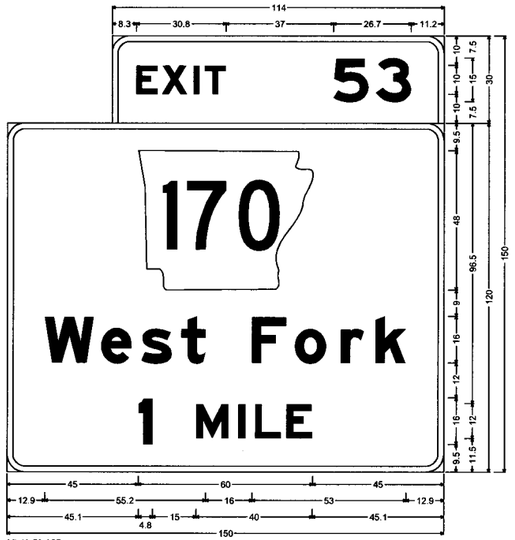
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-18
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		0225	108	191

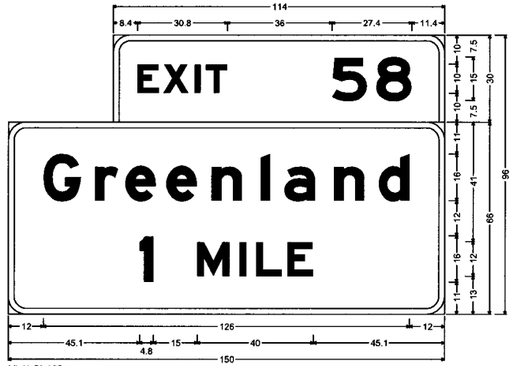
② SIGN LAYOUT SHEET



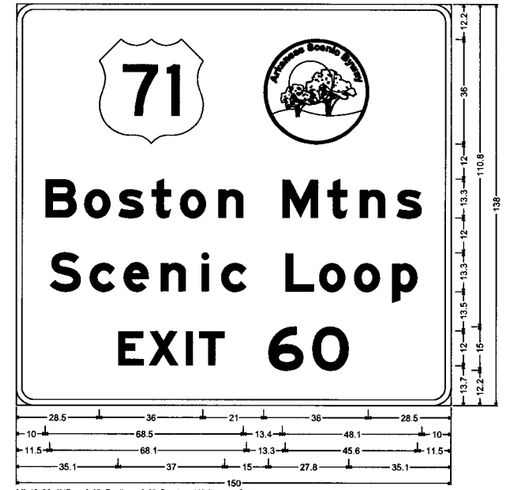
ML49-53-3SB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [53] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[West Fork] E Mod 2K, Standard Arrow Custom 0.0" X 21.6" 45°;



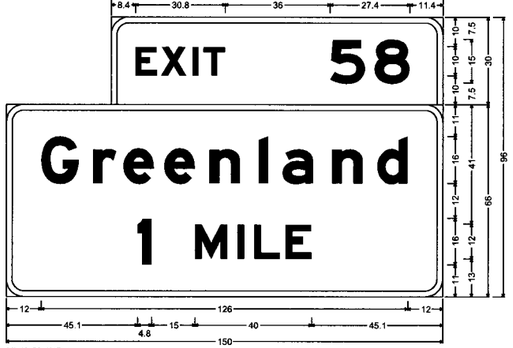
ML49-53-2SB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [53] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[West Fork] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;



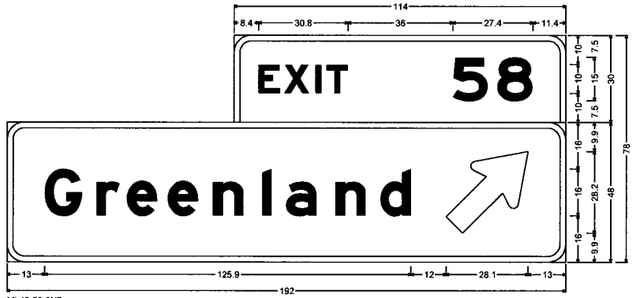
ML49-58-3SB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [58] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Greenland] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;



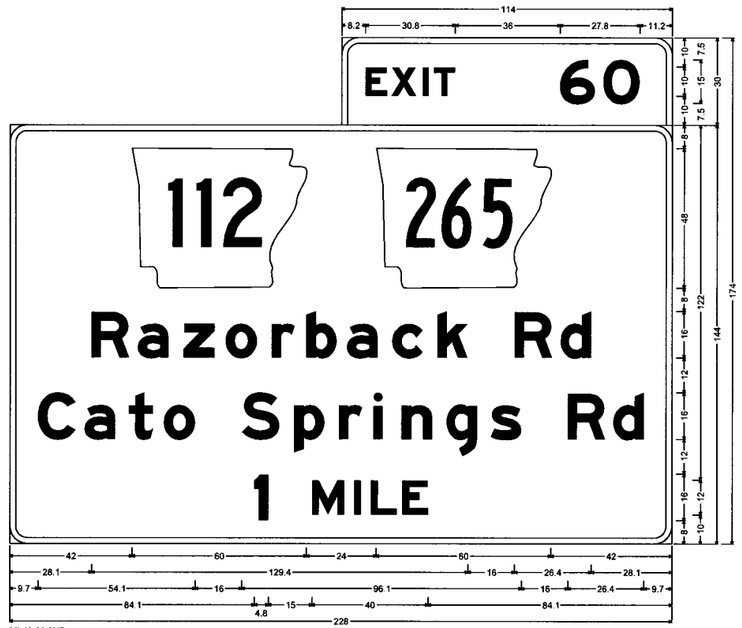
ML49-60-4NB ; 6.0" Radius, 2.0" Border, White on Green;
SCENIC BYWAY; [Boston Mtns] E Mod 2K; [Scenic Loop] E Mod 2K; [EXIT] E Mod 2K;
[60] E Mod 2K;



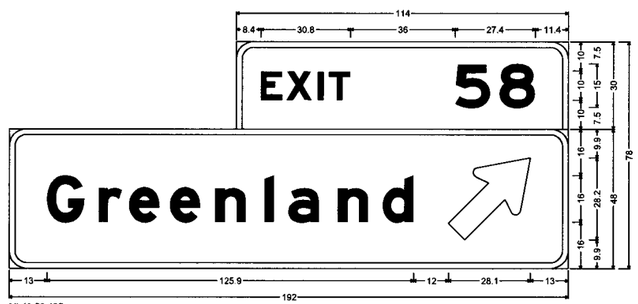
ML49-58-1NB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [58] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Greenland] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;



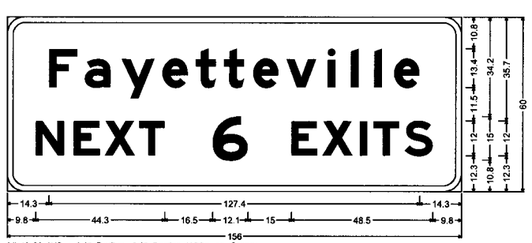
ML49-58-2NB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [58] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Greenland] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;



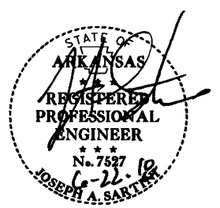
ML49-60-3NB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [60] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Razorback Rd] E Mod 2K; [Cato Springs Rd] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;



ML49-58-4SB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [58] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Greenland] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;

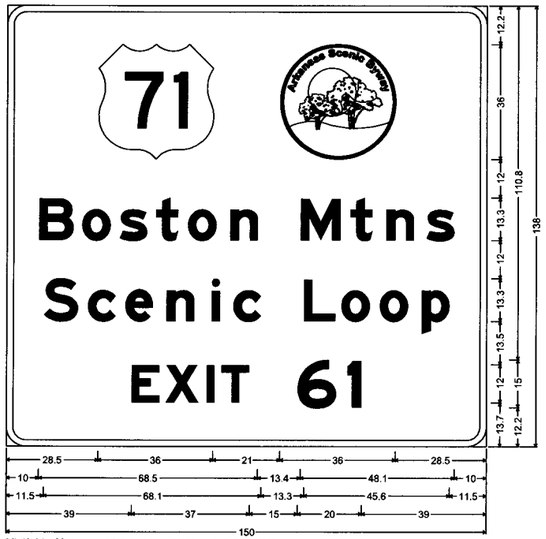


ML49-60-1NB ; 6.0" Radius, 2.0" Border, White on Green;
[Fayetteville] E Mod 2K; [NEXT] E Mod 2K; [6] E Mod 2K; [EXITS] E Mod 2K;

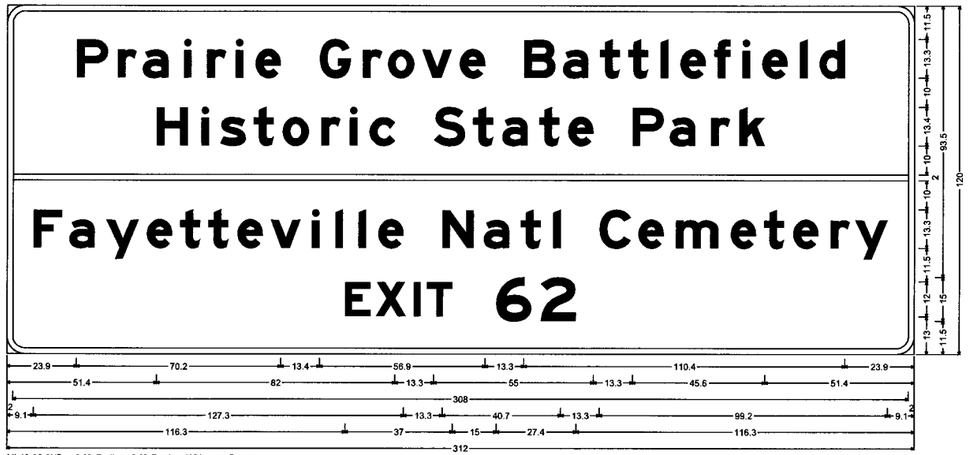


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		0225	109	194

② SIGN LAYOUT SHEET

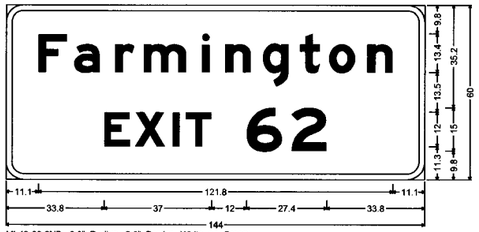


ML49-61-1SB ; 6.0" Radius, 2.0" Border, White on Green;
SCENIC BYWAY; [Boston Mtns] E Mod 2K; [Scenic Loop] E Mod 2K; [EXIT] E Mod 2K;
[61] E Mod 2K;

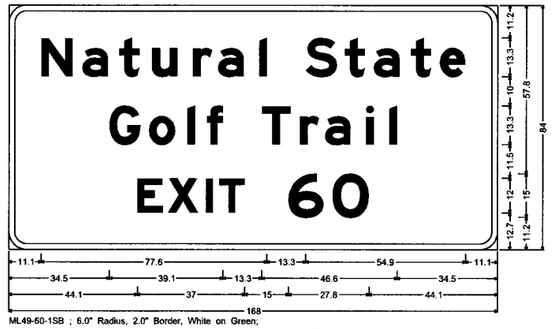


ML49-62-3NB ; 6.0" Radius, 2.0" Border, White on Brown;
[Prairie Grove Battlefield] E Mod 2K; [Historic State Park] E Mod 2K; [Fayetteville Natl Cemetery] E Mod 2K; [EXIT] E Mod 2K; [62] E Mod 2K;

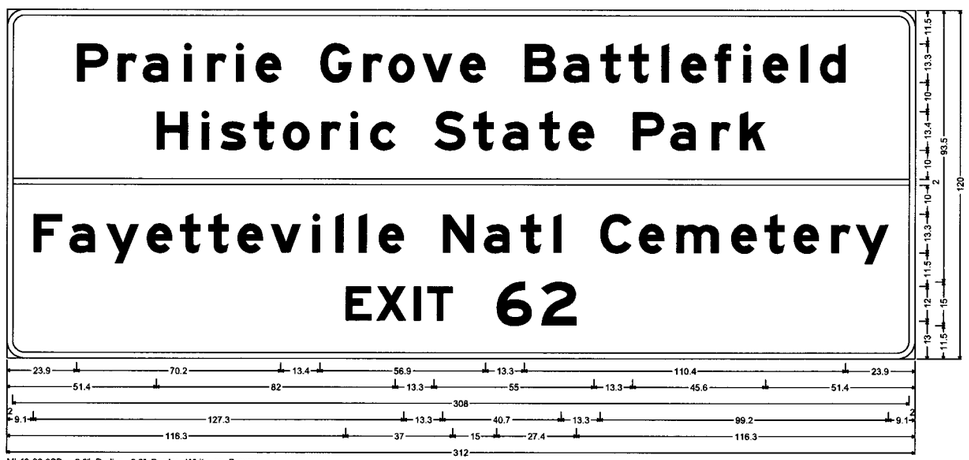
ML49-60-6NB ; 6.0" Radius, 2.0" Border, White on Green;
[Fayetteville] E Mod 2K; [Executive Airport] E Mod 2K; [Natural State] E Mod 2K; [Golf Trail] E Mod 2K; [EXIT] E Mod 2K;
[60] E Mod 2K;



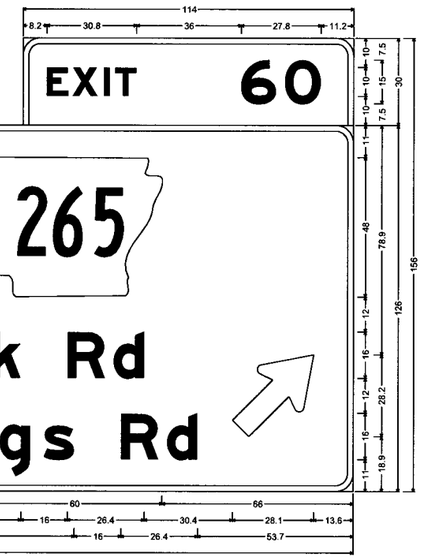
ML49-62-2NB; 6.0" Radius, 2.0" Border, White on Green;
[Farmington] E Mod 2K; [EXIT] E Mod 2K; [62] E Mod 2K;



ML49-60-1SB ; 6.0" Radius, 2.0" Border, White on Green;
[Natural State] E Mod 2K; [Golf Trail] E Mod 2K; [EXIT] E Mod 2K; [60] E Mod 2K;



ML49-62-3SB ; 6.0" Radius, 2.0" Border, White on Brown;
[Prairie Grove Battlefield] E Mod 2K; [Historic State Park] E Mod 2K; [Fayetteville Natl Cemetery] E Mod 2K; [EXIT] E Mod 2K; [62] E Mod 2K;



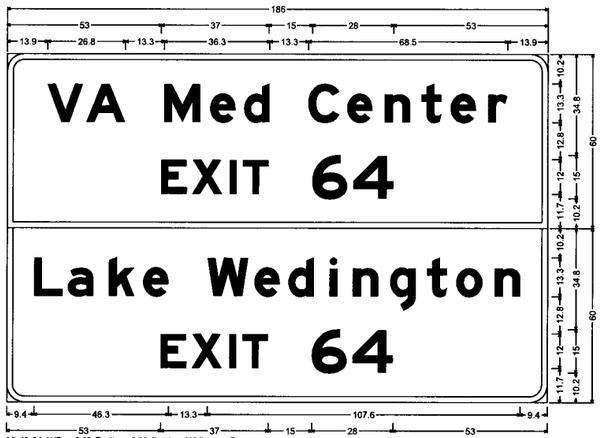
ML49-60-2SB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [60] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Razorback Rd] E Mod 2K; [Cato Springs Rd] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-18
JOSEPH A. SARTER

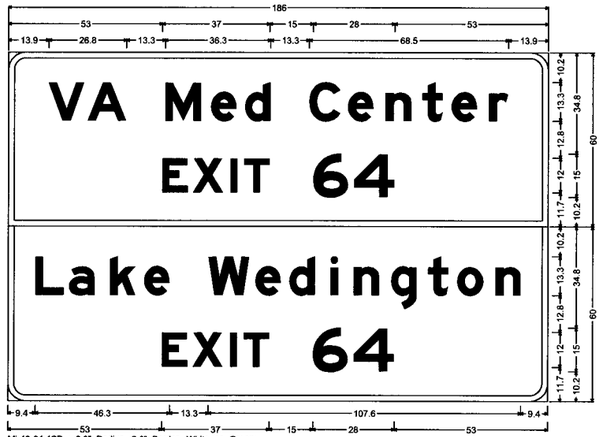
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		01225	116	194

② SIGN LAYOUT SHEET

ML49-61-2SB ; 6.0" Radius, 2.0" Border, White on Green;
[Fayetteville] E Mod 2K; [Executive Airport] E Mod 2K; [EXIT] E Mod 2K; [61] E Mod 2K;

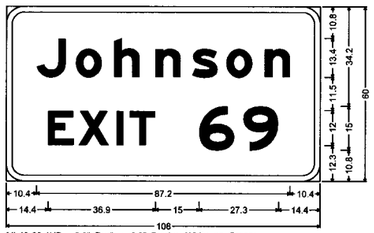


ML49-64-1NB ; 6.0" Radius, 2.0" Border, White on Green;
[VA Med Center] E Mod 2K; [EXIT] E Mod 2K; [64] E Mod 2K;
6.0" Radius, 2.0" Border, White on Brown;
[Lake Wedington] E Mod 2K; [EXIT] E Mod 2K; [64] E Mod 2K;

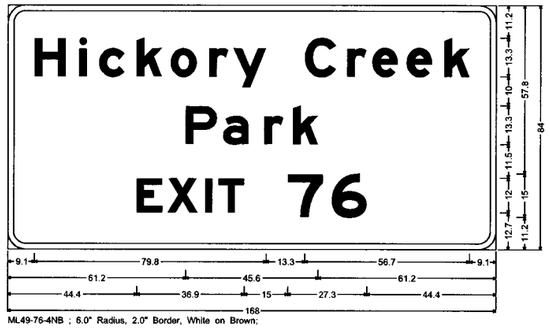


ML49-64-1SB ; 6.0" Radius, 2.0" Border, White on Green;
[VA Med Center] E Mod 2K; [EXIT] E Mod 2K; [64] E Mod 2K;
6.0" Radius, 2.0" Border, White on Brown;
[Lake Wedington] E Mod 2K; [EXIT] E Mod 2K; [64] E Mod 2K;

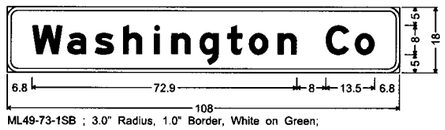
ML49-67-1SB ; 6.0" Radius, 2.0" Border, White on Green;
[Fayetteville] E Mod 2K; [NEXT] E Mod 2K; [6] E Mod 2K; [EXITS] E Mod 2K;



ML49-69-1NB ; 6.0" Radius, 2.0" Border, White on Green;
[Johnson] E Mod 2K; [EXIT] E Mod 2K; [69] E Mod 2K;

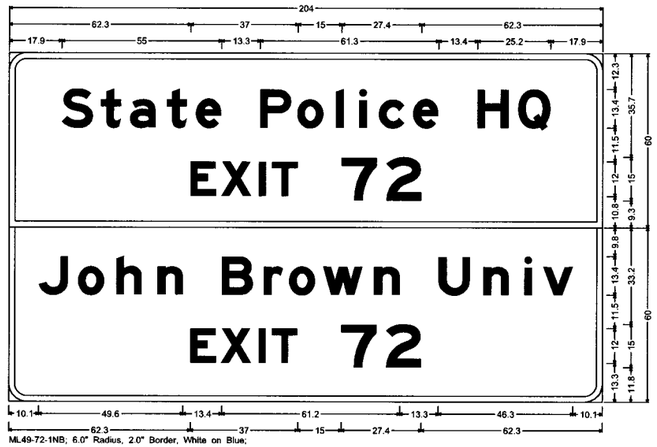


ML49-76-4NB ; 6.0" Radius, 2.0" Border, White on Brown;
[Hickory Creek] E Mod 2K; [Park] E Mod 2K; [EXIT] E Mod 2K; [76] E Mod 2K;

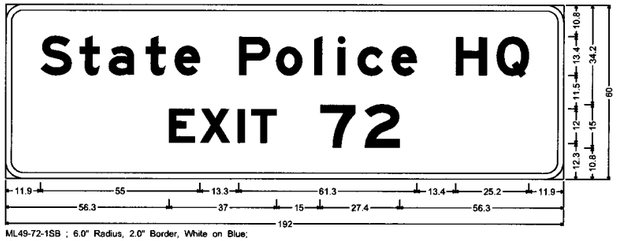


ML49-73-1SB ; 3.0" Radius, 1.0" Border, White on Green;
[Washington Co] E Mod 2K;

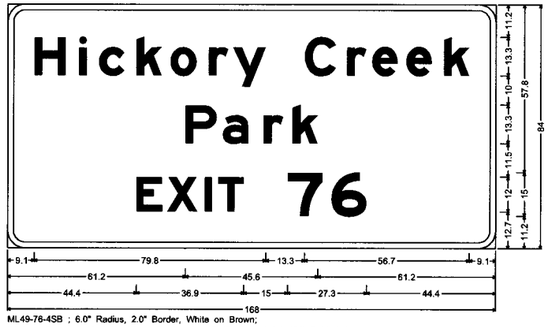
ML49-76-3NB ;
3.0" Radius, 1.0" Border, White on Green;
[Benton Co] E Mod 2K;



ML49-72-1NB; 6.0" Radius, 2.0" Border, White on Blue;
[State Police HQ] E Mod 2K; [EXIT] E Mod 2K; [72] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[John Brown Univ] E Mod 2K; [EXIT] E Mod 2K; [72] E Mod 2K;



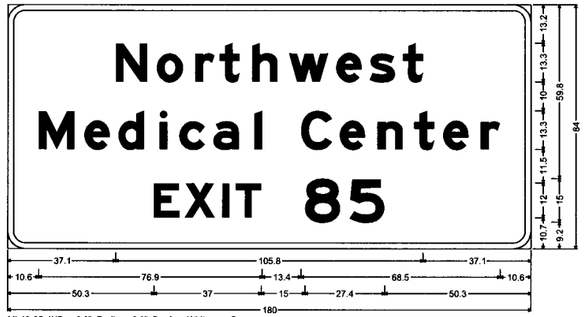
ML49-72-1SB ; 6.0" Radius, 2.0" Border, White on Blue;
[State Police HQ] E Mod 2K; [EXIT] E Mod 2K; [72] E Mod 2K;



ML49-76-4SB ; 6.0" Radius, 2.0" Border, White on Brown;
[Hickory Creek] E Mod 2K; [Park] E Mod 2K; [EXIT] E Mod 2K; [76] E Mod 2K;

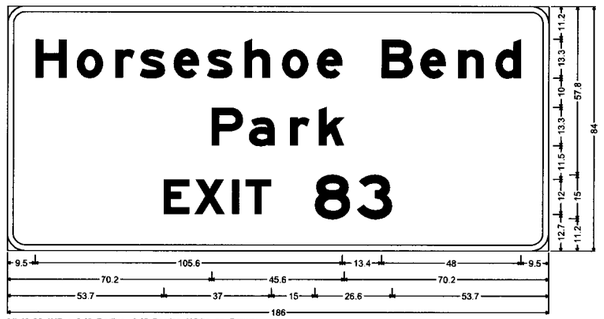
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-10
JOSEPH A. SARTINI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		01225	111	194
				②		SIGN LAYOUT SHEET		

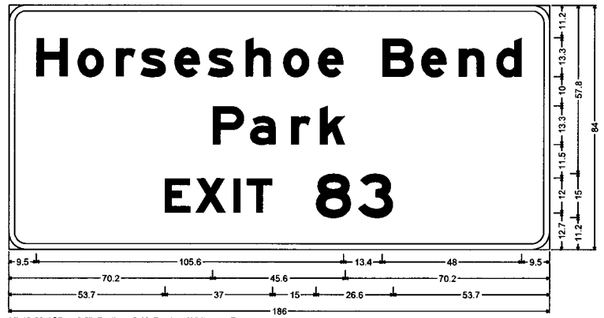


ML49-85-4NB ; 6.0" Radius, 2.0" Border, White on Green;
[Northwest] E Mod 2K; [Medical Center] E Mod 2K; [EXIT] E Mod 2K; [85] E Mod 2K;

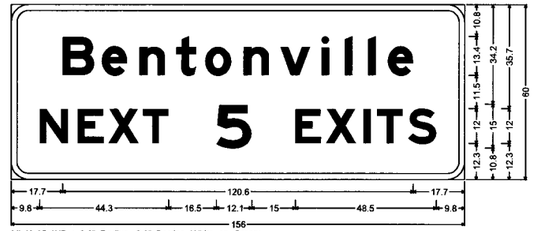
ML49-85-2NB ; 6.0" Radius, 2.0" Border, White on Green;
[Northwest AR] E Mod 2K; [Reg Airport] E Mod 2K; [EXIT] E Mod 2K; [85] E Mod 2K;



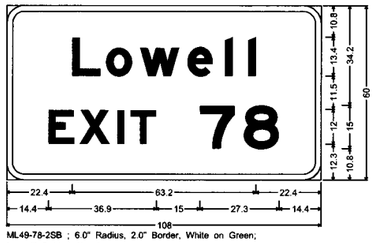
ML49-83-1NB ; 6.0" Radius, 2.0" Border, White on Brown;
[Horseshoe Bend] E Mod 2K; [Park] E Mod 2K; [EXIT] E Mod 2K; [83] E Mod 2K;



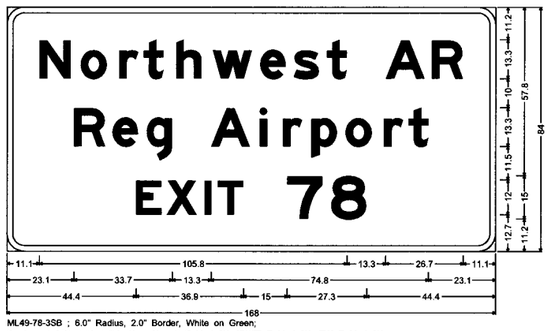
ML49-83-1SB ; 6.0" Radius, 2.0" Border, White on Brown;
[Horseshoe Bend] E Mod 2K; [Park] E Mod 2K; [EXIT] E Mod 2K; [83] E Mod 2K;



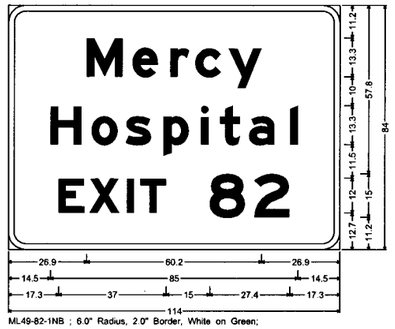
ML49-85-1NB ; 6.0" Radius, 2.0" Border, White on Green;
[Bentonville] E Mod 2K; [NEXT] E Mod 2K; [5] E Mod 2K; [EXITS] E Mod 2K;



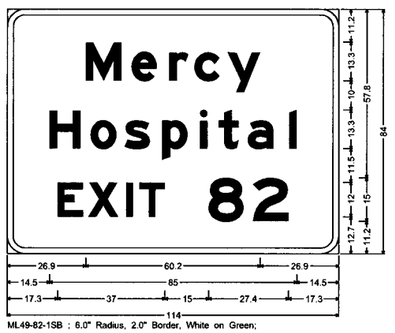
ML49-78-2SB ; 6.0" Radius, 2.0" Border, White on Green;
[Lowell] E Mod 2K; [EXIT] E Mod 2K; [78] E Mod 2K;



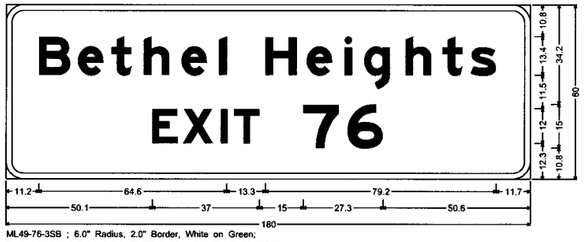
ML49-78-3SB ; 6.0" Radius, 2.0" Border, White on Green;
[Northwest AR] E Mod 2K; [Reg Airport] E Mod 2K; [EXIT] E Mod 2K; [78] E Mod 2K;



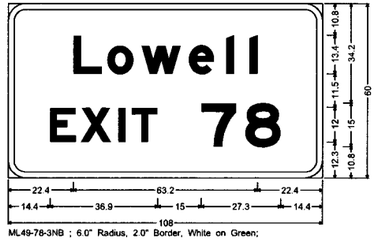
ML49-82-1NB ; 6.0" Radius, 2.0" Border, White on Green;
[Mercy] E Mod 2K; [Hospital] E Mod 2K; [EXIT] E Mod 2K;
[82] E Mod 2K;



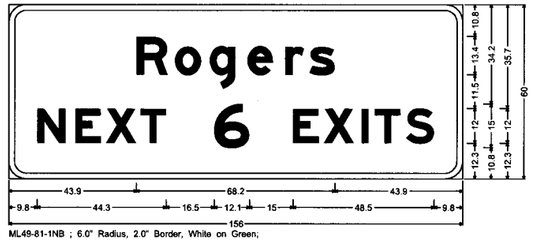
ML49-82-1SB ; 6.0" Radius, 2.0" Border, White on Green;
[Mercy] E Mod 2K; [Hospital] E Mod 2K; [EXIT] E Mod 2K;
[82] E Mod 2K;



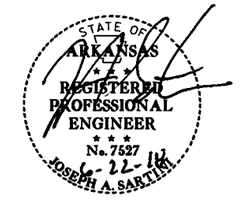
ML49-76-3SB ; 6.0" Radius, 2.0" Border, White on Green;
[Bethel Heights] E Mod 2K; [EXIT] E Mod 2K; [76] E Mod 2K;



ML49-78-3NB ; 6.0" Radius, 2.0" Border, White on Green;
[Lowell] E Mod 2K; [EXIT] E Mod 2K; [78] E Mod 2K;

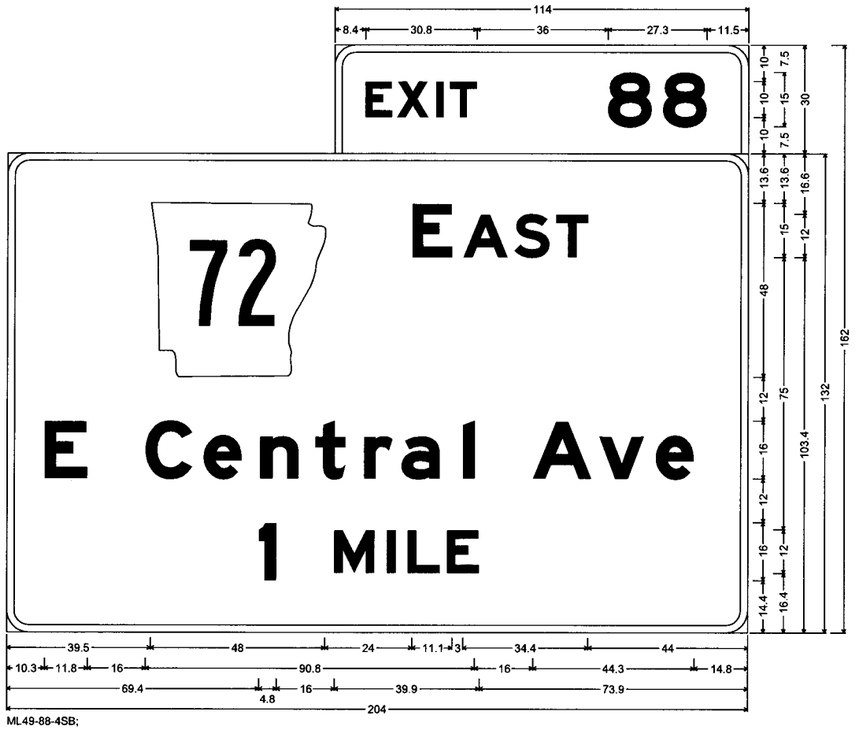


ML49-81-1NB ; 6.0" Radius, 2.0" Border, White on Green;
[Rogers] E Mod 2K; [NEXT] E Mod 2K; [6] E Mod 2K; [EXITS] E Mod 2K;

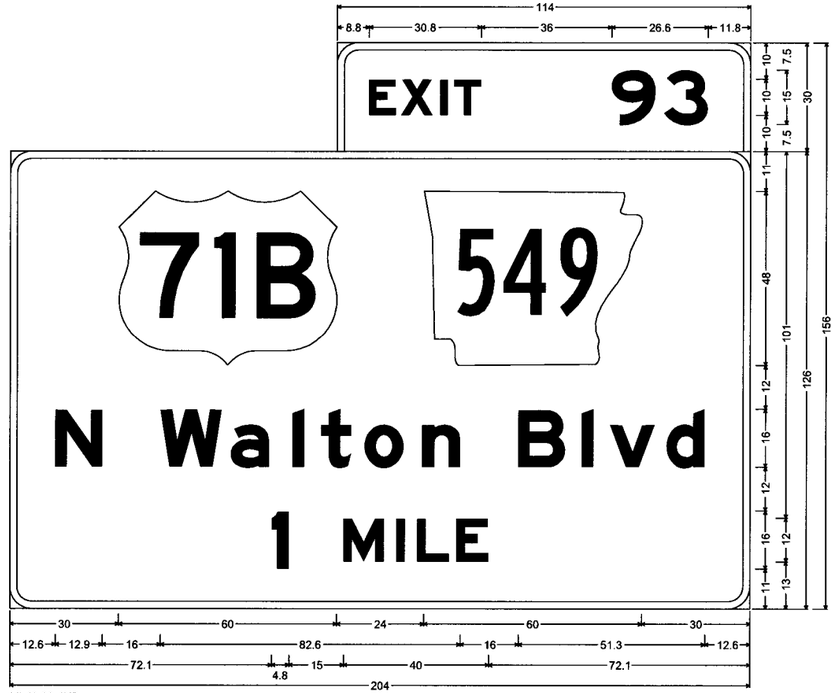


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		0225	112	194

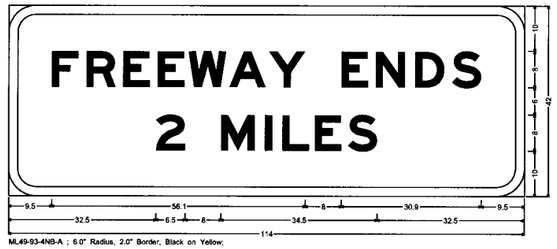
② SIGN LAYOUT SHEET



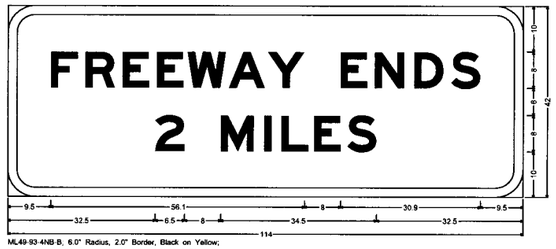
ML49-88-4SB;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [88] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[E] E Mod 2K; [AST] E Mod 2K; [E Central Ave] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;



ML49-93-1NB;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [93] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[N Walton Blvd] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;

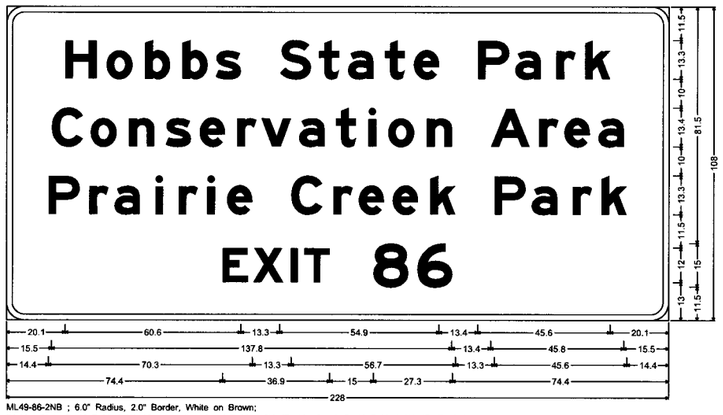


ML49-93-4NB-A ; 6.0" Radius, 2.0" Border, Black on Yellow;
[FREEWAY ENDS] E Mod 2K; [2 MILES] E Mod 2K;

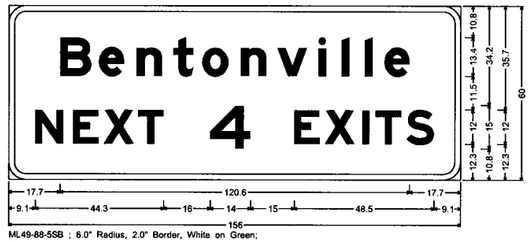


ML49-93-4NB-B, 6.0" Radius, 2.0" Border, Black on Yellow;
[FREEWAY ENDS] E Mod 2K; [2 MILES] E Mod 2K;

ML49-86-1NB ; 6.0" Radius, 2.0" Border, White on Green;
[Bentonville] E Mod 2K; [Business Dist] E Mod 2K; [EXIT] E Mod 2K; [86] E Mod 2K;



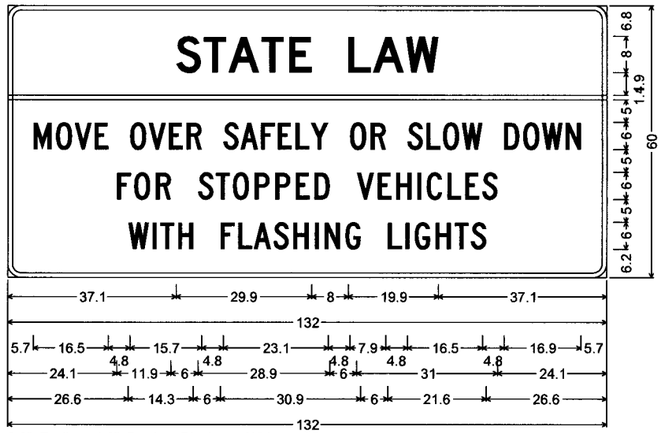
ML49-86-2NB ; 6.0" Radius, 2.0" Border, White on Brown;
[Hobbs State Park] E Mod 2K; [Conservation Area] E Mod 2K; [Prairie Creek Park] E Mod 2K; [EXIT] E Mod 2K; [86] E Mod 2K;



ML49-88-5SB ; 6.0" Radius, 2.0" Border, White on Green;
[Bentonville] E Mod 2K; [NEXT] E Mod 2K; [4] E Mod 2K; [EXITS] E Mod 2K;

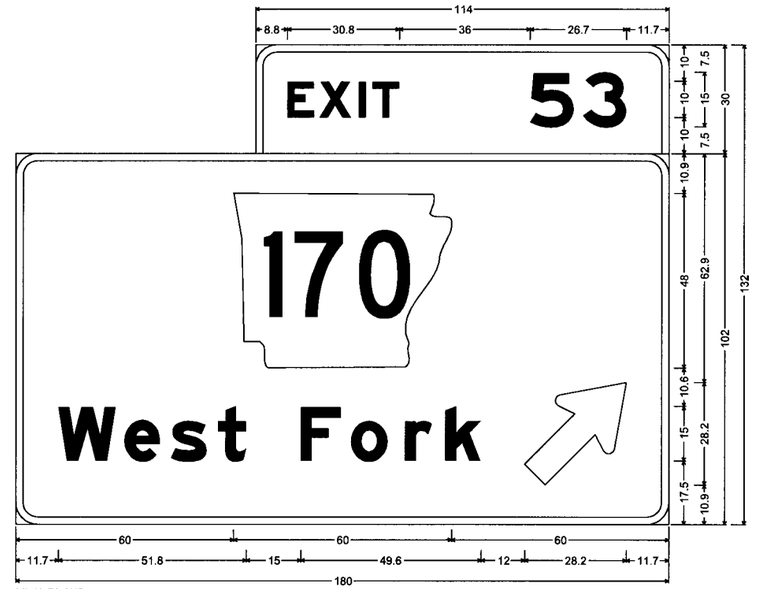
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	113	191

② SIGN LAYOUT SHEET

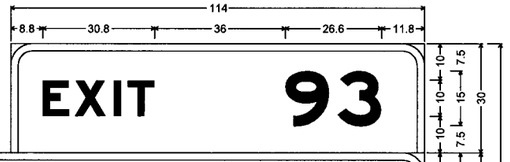


3.0" Radius, 1.0" Border, Black on White;
[STATE LAW] D 2K; [MOVE OVER SAFELY OR SLOW DOWN] C 2K 80% spacing;
[FOR STOPPED VEHICLES] C 2K; [WITH FLASHING LIGHTS] C 2K;

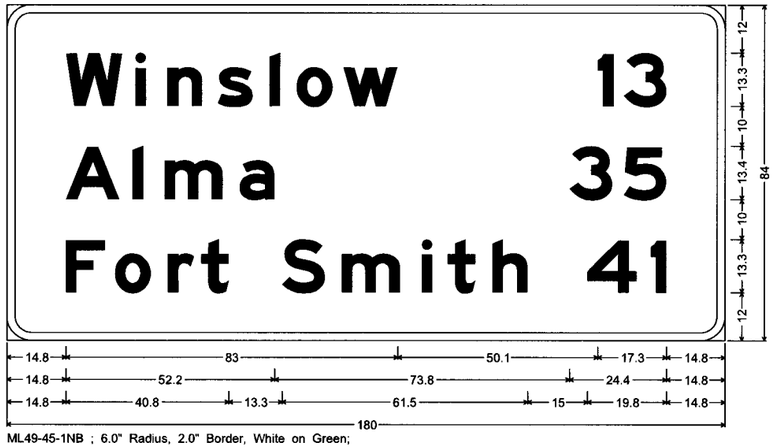
ML49-24-3NB
ML49-34-6SB
ML49-45-5NB
ML49-88-3SB



ML49-53-3NB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [53] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[West Fork] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;



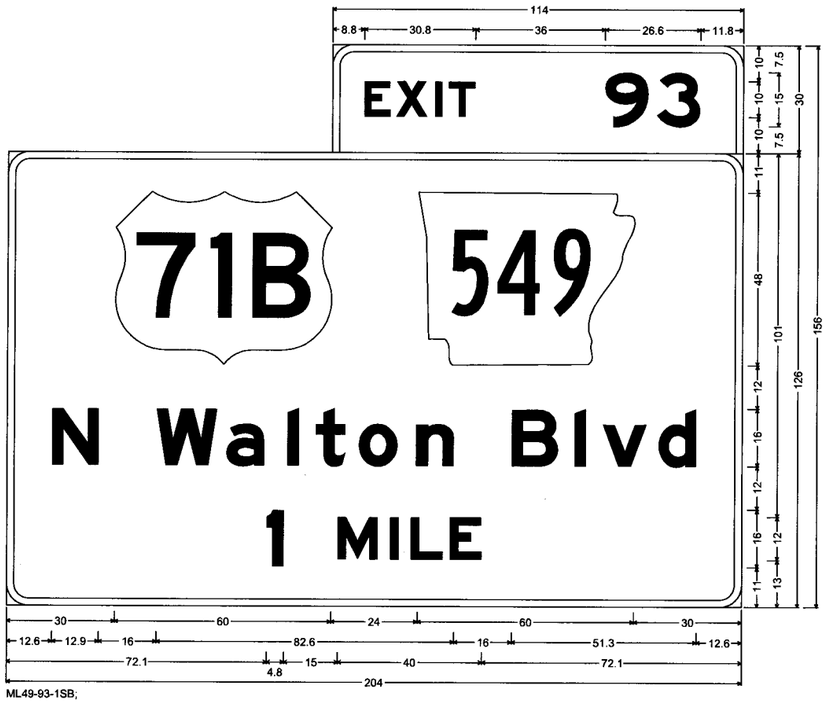
ML49-93-2NB;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [93] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[N Walton Blvd] E Mod 2K; Turn Arrow Custom;



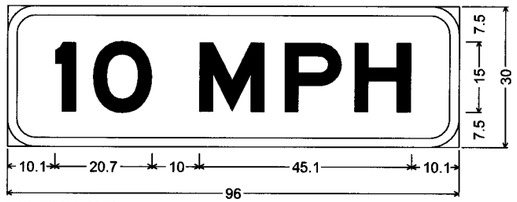
ML49-45-1NB ; 6.0" Radius, 2.0" Border, White on Green;
[Winslow] E Mod 2K; [13] E Mod 2K; [Alma] E Mod 2K; [35] E Mod 2K; [Fort Smith] E Mod 2K; [41] E Mod 2K;

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02205	114	194

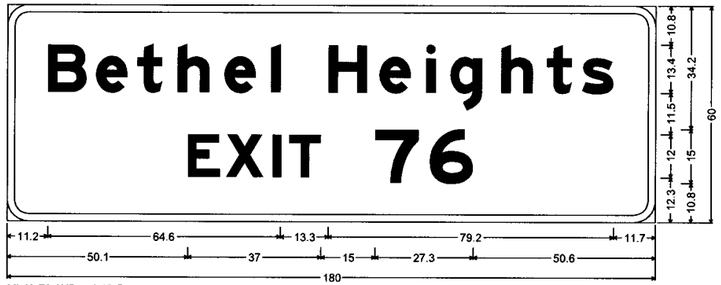
② SIGN LAYOUT SHEET



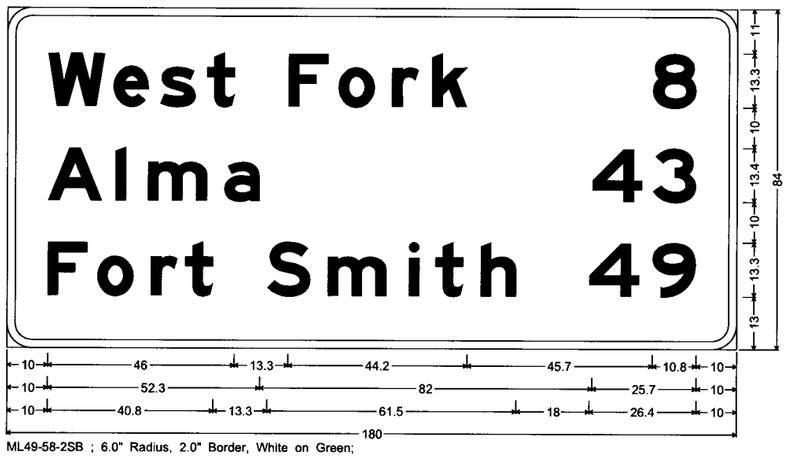
ML49-93-1SB;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [93] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[N Walton Blvd] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;



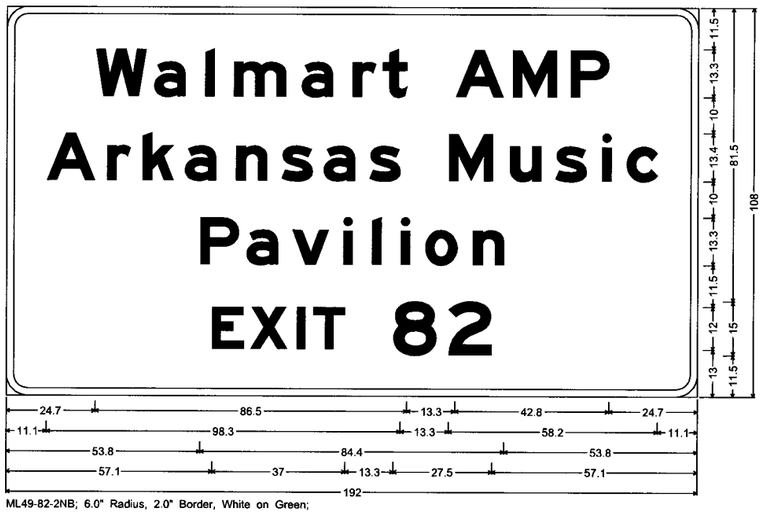
EXIT62-NB-AUX;
6.0" Radius, 2.0" Border, Black on Yellow;
[10] E Mod 2K; [MPH] E Mod 2K;



ML49-76-2NB ; 6.0" Radius, 2.0" Border, White on Green;
[Bethel Heights] E Mod 2K; [EXIT] E Mod 2K; [76] E Mod 2K;



ML49-58-2SB ; 6.0" Radius, 2.0" Border, White on Green;
[West Fork] E Mod 2K; [8] E Mod 2K; [Alma] E Mod 2K; [43] E Mod 2K; [Fort Smith] E Mod 2K; [49] E Mod 2K;



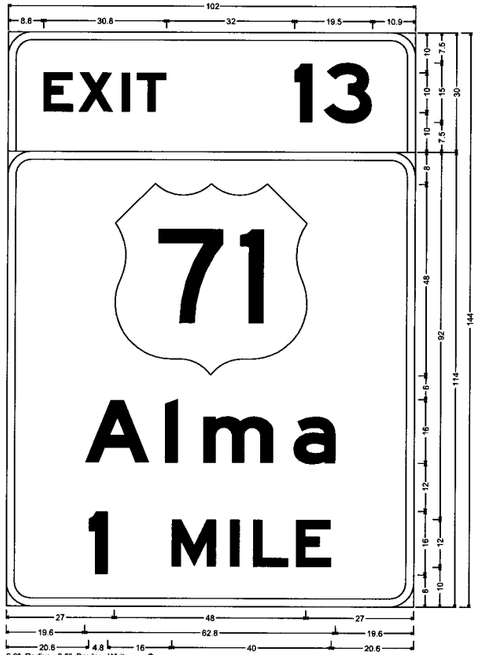
ML49-82-2NB; 6.0" Radius, 2.0" Border, White on Green;
[Walmart AMP] E Mod 2K; [Arkansas Music] E Mod 2K; [Pavilion] E Mod 2K; [EXIT] E Mod 2K; [82] E Mod 2K;

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-18
JOSEPH A. SARTER

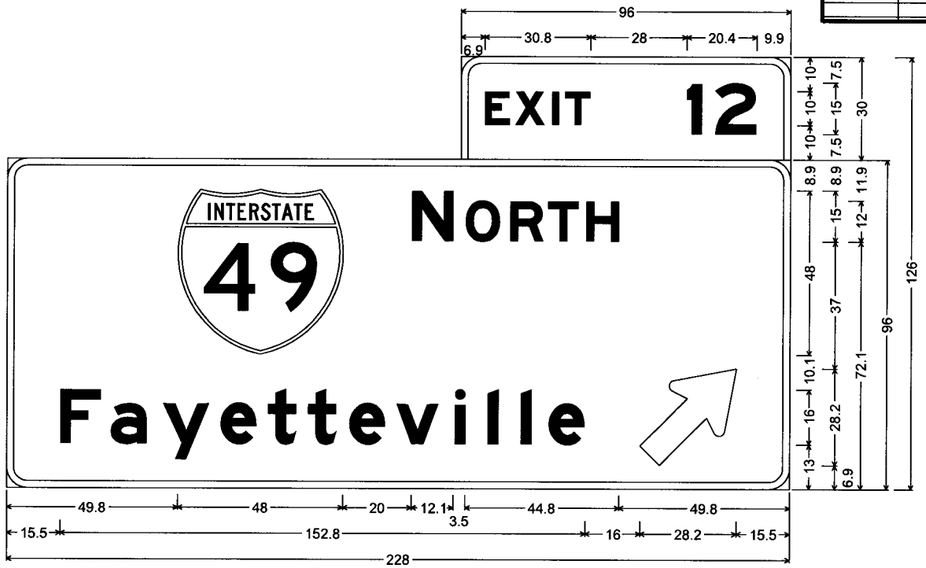
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		00225	115	197

② SIGN LAYOUT SHEET

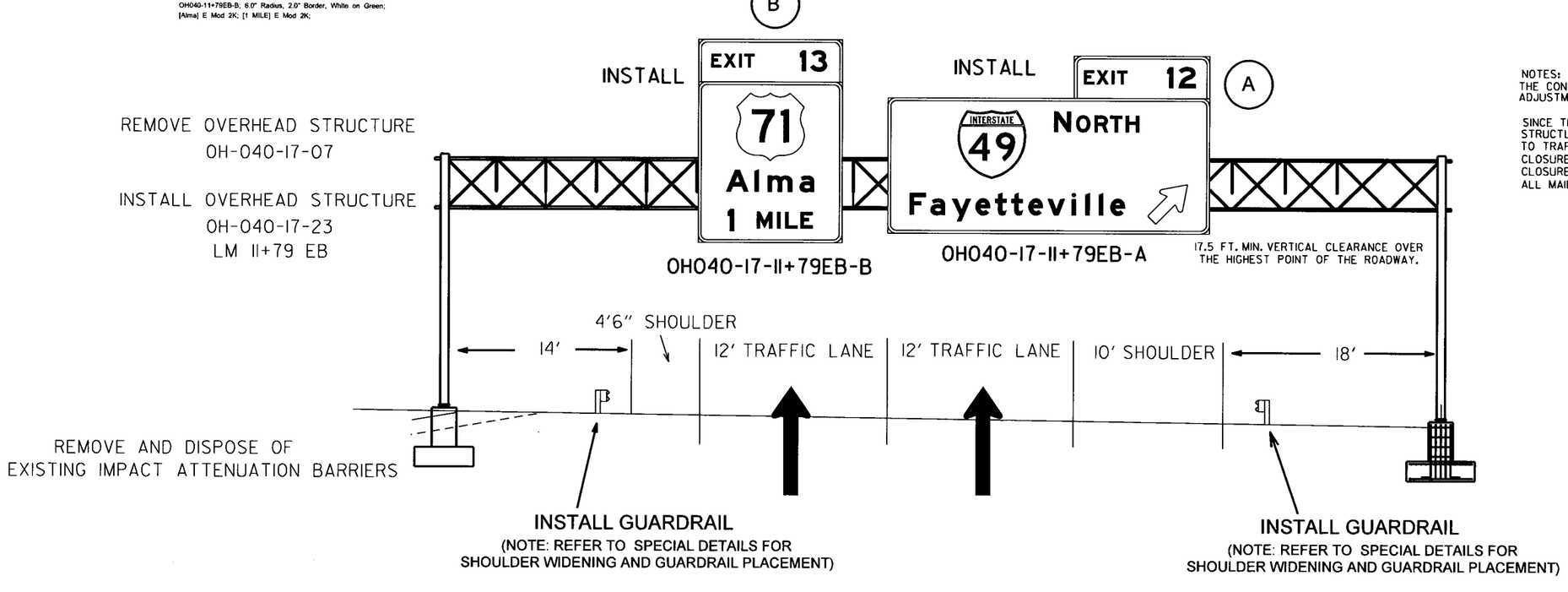
OH-040-17-07 / OH-040-17-23



6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [13] E Mod 2K;
OH040-11+79EB-B, 6.0" Radius, 2.0" Border, White on Green;
[Alma] E Mod 2K; [1 MILE] E Mod 2K;



OH040-11+79EB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [12] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[N] E Mod 2K; [ORTH] E Mod 2K; [Fayetteville] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;



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

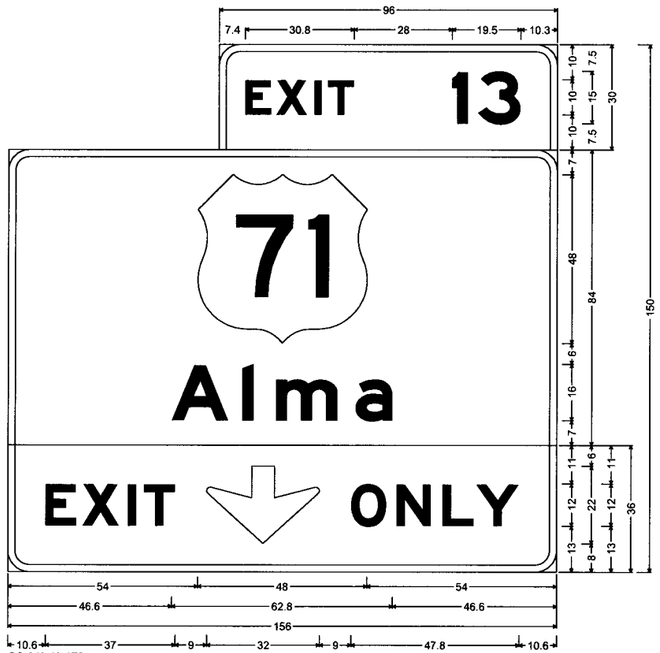
SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID 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
6-12
JOSEPH A. SARTINI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	116	194

② SIGN LAYOUT SHEET

OC-040-17-08 / OC-040-17-25

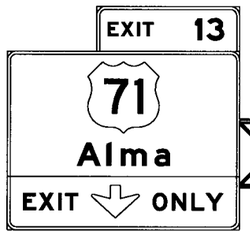


OC-040-13-1EB;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [13] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Alma] E Mod 2K;
6.0" Radius, 2.0" Border, Black on Yellow;
[EXIT] E Mod 2K; Down Arrow 22.0" 270°; [ONLY] E Mod 2K;

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
OC-040-13-1EB



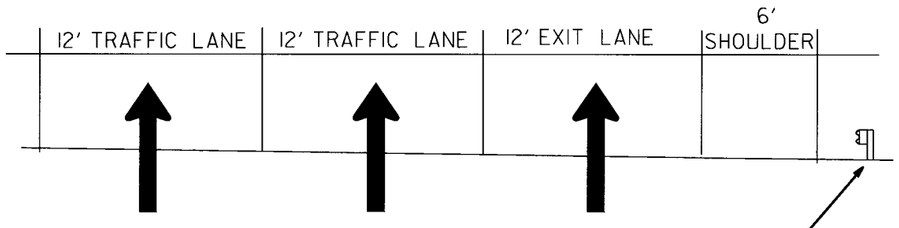
17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.

REMOVE OVERHEAD STRUCTURE
OC-040-17-08

INSTALL OVERHEAD STRUCTURE
OC-040-17-25

LM 12+70 EB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.



INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

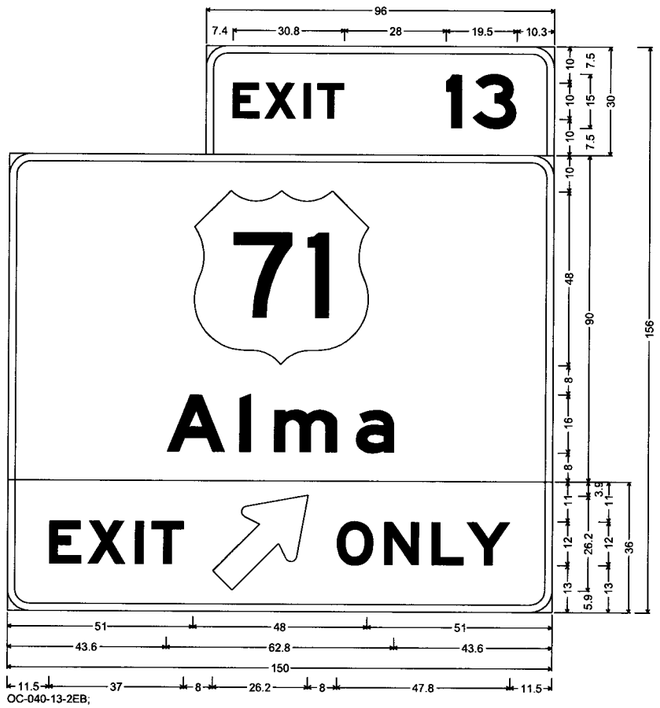
REMOVE AND DISPOSE OF
EXISTING IMPACT ATTENUATION BARRIERS

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR MIN. LENGTH.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		01225	117	194

② SIGN LAYOUT SHEET

OC-040-17-09 / OC-040-17-26

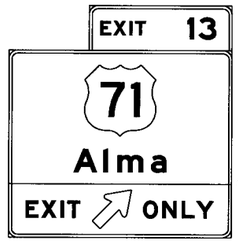


OC-040-13-2EB;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [13] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Alma] E Mod 2K;
6.0" Radius, 2.0" Border, Black on Yellow;
[EXIT] E Mod 2K; Standard Arrow Custom 0.0" X 20.3" 45°; [ONLY] E Mod 2K;

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.

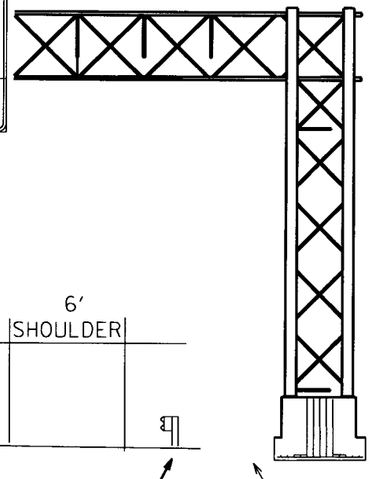
REPLACE
OC-040-13-2EB



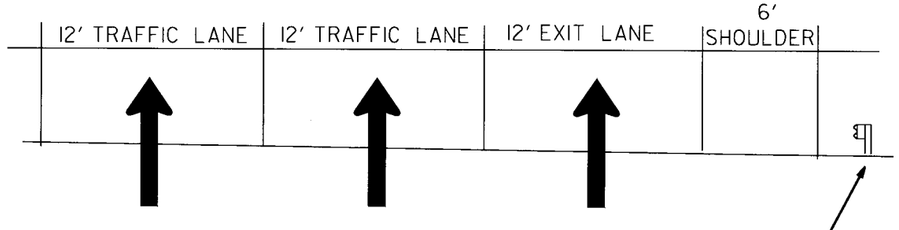
17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.

REMOVE OVERHEAD STRUCTURE
OC-040-17-09

INSTALL OVERHEAD STRUCTURE
OC-040-17-26
LM 12+95 EB



SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.



REMOVE AND DISPOSE OF
EXISTING IMPACT ATTENUATION BARRIERS

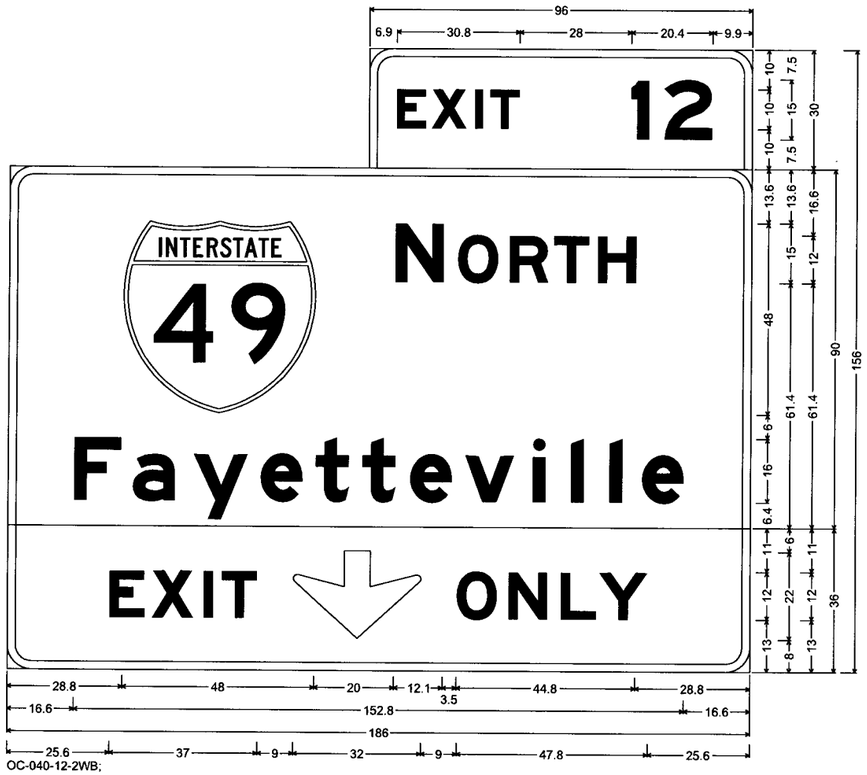
SEE OVERHEAD SIGN STRUCTURE DETAILS FOR MIN. LENGTH.

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	118	141

② SIGN LAYOUT SHEET

OC-040-17-11 / OC-040-17-27

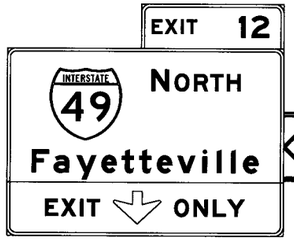


OC-040-12-2WB;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [12] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[N] E Mod 2K; [ORTH] E Mod 2K; [Fayetteville] E Mod 2K;
6.0" Radius, 2.0" Border, Black on Yellow;
[EXIT] E Mod 2K; Down Arrow 22.0" 270°; [ONLY] E Mod 2K;

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
OC-040-12-2WB



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

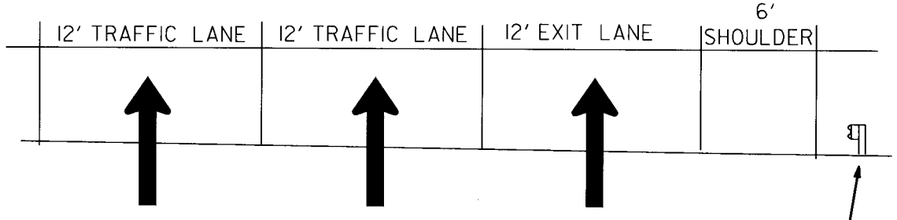
REMOVE OVERHEAD STRUCTURE
OC-040-17-11

INSTALL OVERHEAD STRUCTURE
OC-040-17-27

LM 12+95 WB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

REMOVE AND DISPOSE OF
EXISTING IMPACT ATTENUATION BARRIERS



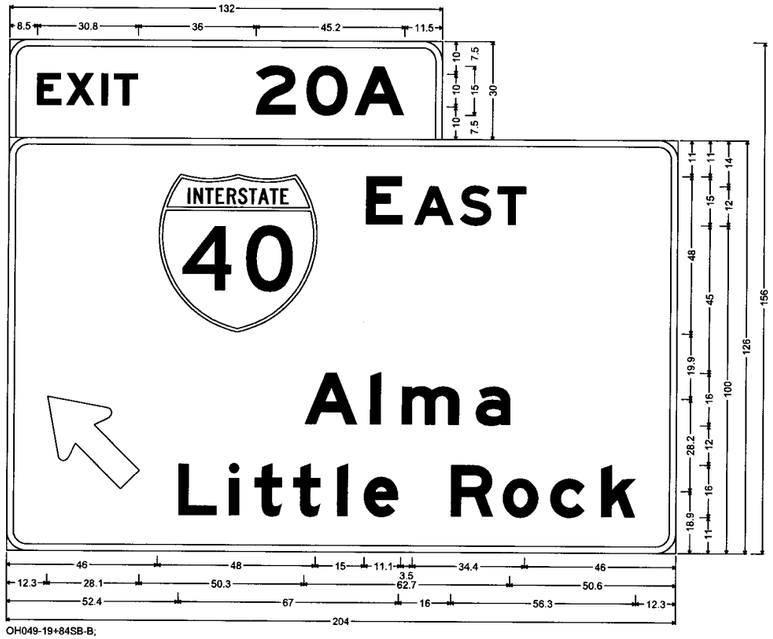
SEE OVERHEAD SIGN STRUCTURE DETAILS FOR MIN. LENGTH.

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

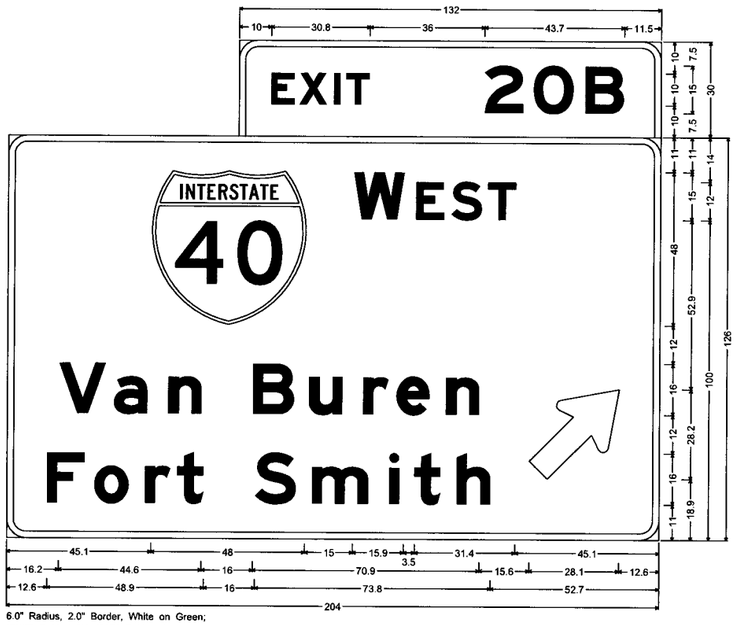
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		01225	119	194

② SIGN LAYOUT SHEET

OH-540-17-09 / OH-049-17-02



OH049-19+84SB-B;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [20A] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[E] E Mod 2K; [AST] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 135°; [Alma] E Mod 2K; [Little Rock] E Mod 2K;



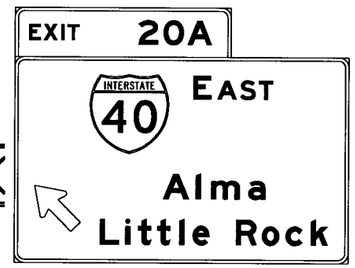
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [20B] E Mod 2K;
OH-049-19+84SB-A; 6.0" Radius, 2.0" Border, White on Green;
[W] E Mod 2K; [EST] E Mod 2K; [Van Buren] E Mod 2K; [Fort Smith] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;

REMOVE OVERHEAD STRUCTURE
OH-540-17-09

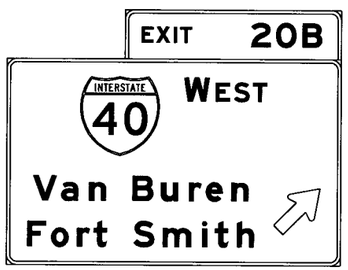
INSTALL OVERHEAD STRUCTURE
OH-049-17-02

LM 19+84 SB

INSTALL (B)



OH049-19+84SB-B



OH049-19+84SB-A

INSTALL (A)

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

REMOVE AND DISPOSE OF
EXISTING IMPACT ATTENUATION BARRIERS

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS
SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR
SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

SEE OVERHEAD SIGN STRUCTURE
DETAILS FOR DESIGN SPECIFICATIONS

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

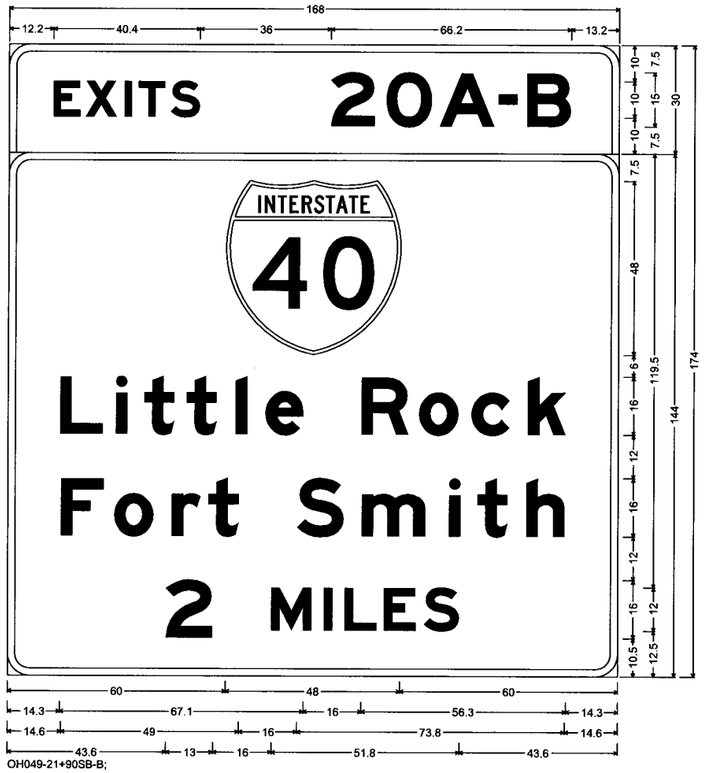
SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID 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
C-22-16
JOSEPH A. SARTIN

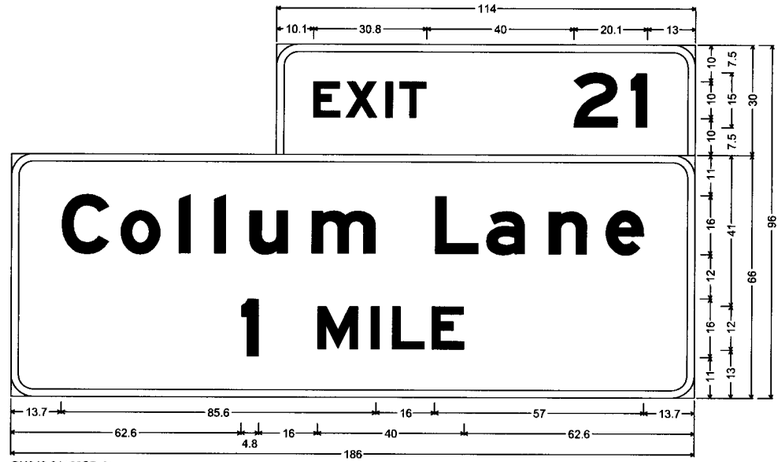
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	120	191

② SIGN LAYOUT SHEET

OH-049-17-01



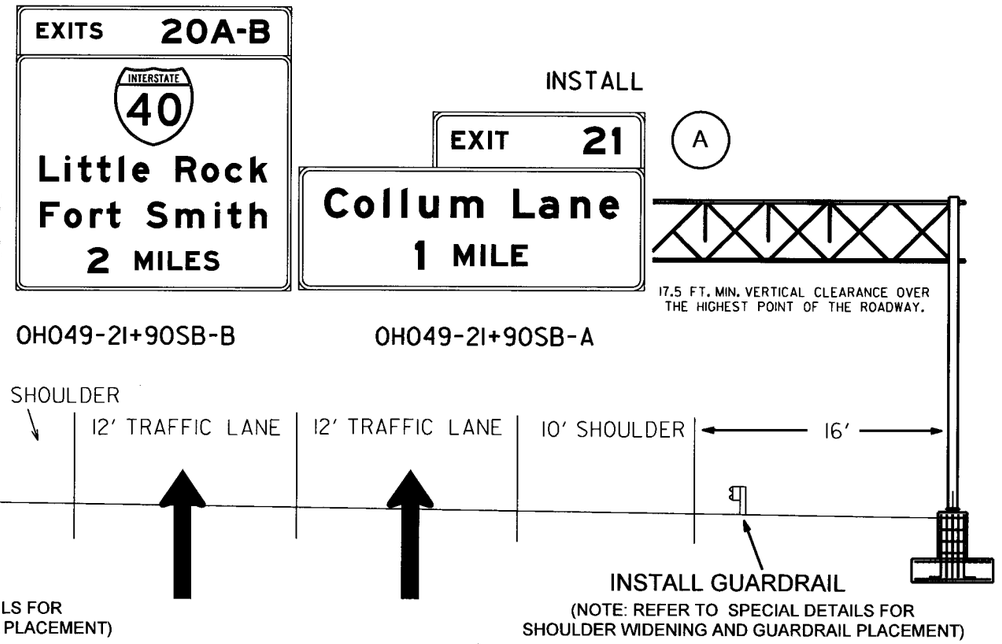
OH049-21+90SB-B;
6.0" Radius, 2.0" Border, White on Green;
[EXITS] E Mod 2K; [20A-B] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Little Rock] E Mod 2K; [Fort Smith] E Mod 2K; [2] E Mod 2K; [MILES] E Mod 2K;



OH040-21+90SB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [21] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Collum Lane] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;

INSTALL (B)

OH-049-17-01
INSTALL OVERHEAD STRUCTURE
LM 21+90 SB



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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02215	121	174

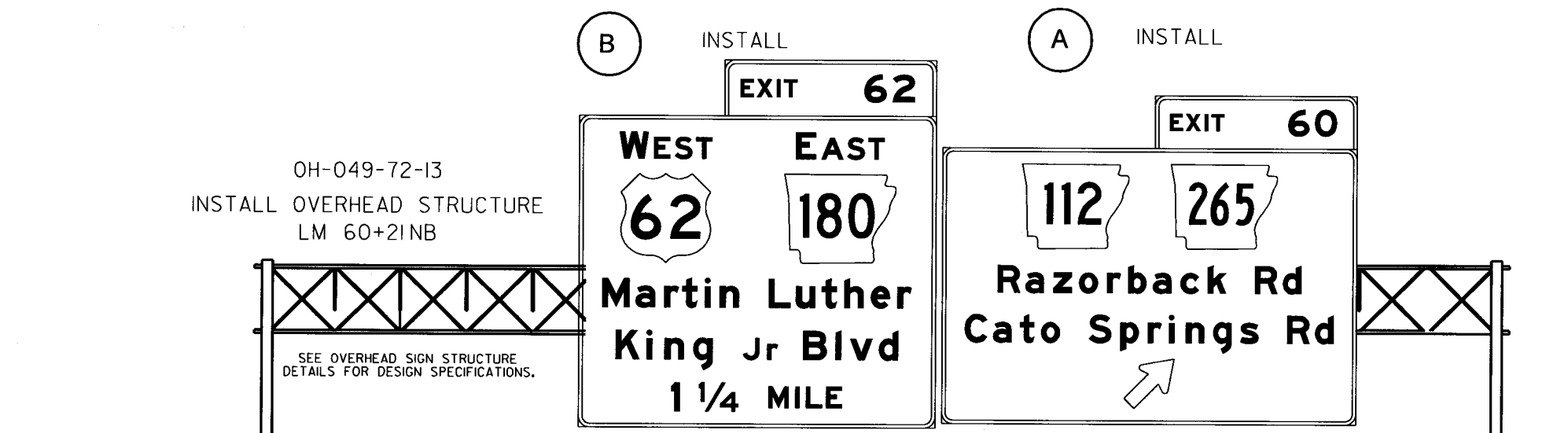
② SIGN LAYOUT SHEET

OH-049-72-13

OH-049-72-13
INSTALL OVERHEAD STRUCTURE
LM 60+21NB

B INSTALL

A INSTALL

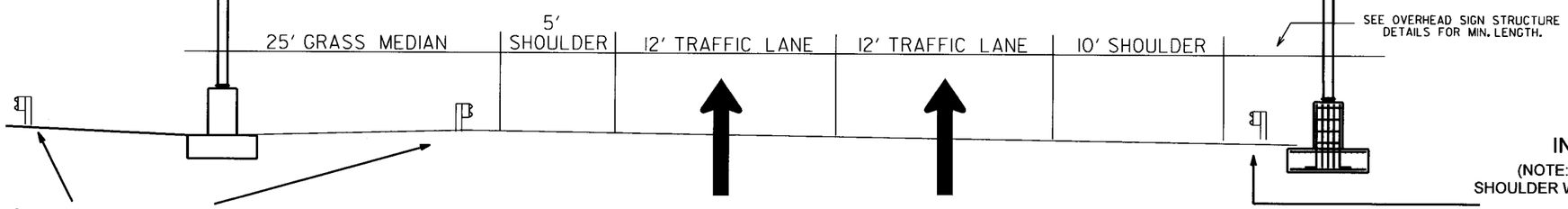


SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

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

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

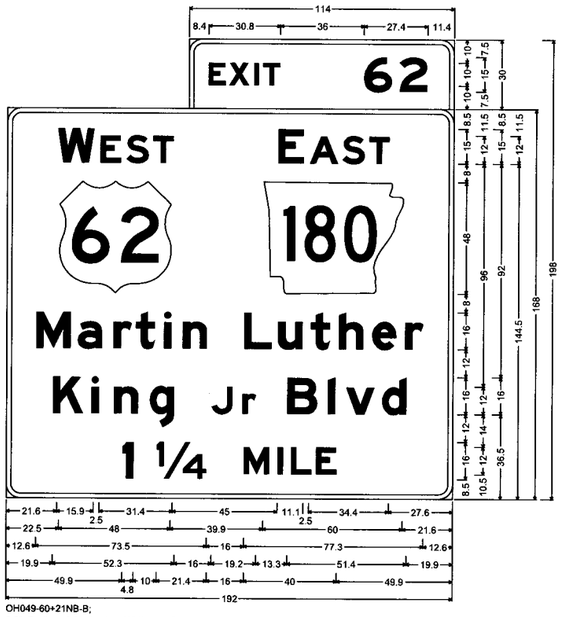
SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID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



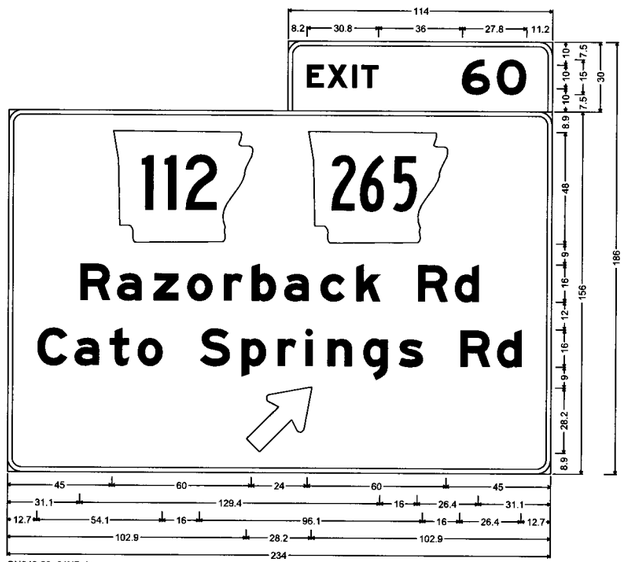
SEE OVERHEAD SIGN STRUCTURE DETAILS FOR MIN. LENGTH.

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)



OH049-60+21NB-B;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [62] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[W] E Mod 2K; [EST] E Mod 2K; [E] E Mod 2K; [AST] E Mod 2K;
[Martin Luther] E Mod 2K 75% spacing; [King] E Mod 2K; [Jr] E Mod 2K; [Blvd] E Mod 2K;
[1] E Mod 2K; [1/4] E Mod 2K; [MILE] E Mod 2K;



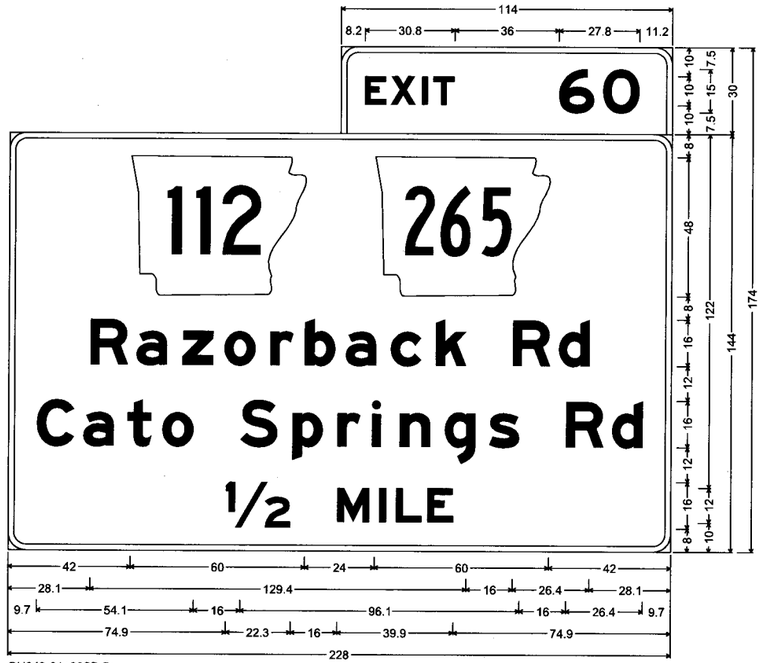
OH049-60+21NB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [60] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Razorback Rd] E Mod 2K; [Cato Springs Rd] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
6-22-10

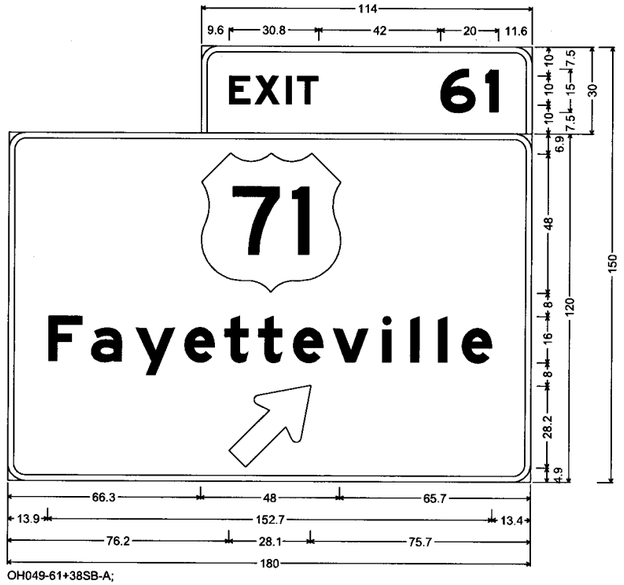
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	122	194

② SIGN LAYOUT SHEET

OH-049-72-14



OH049-61+38SB-B;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [60] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Razorback Rd] E Mod 2K; [Cato Springs Rd] E Mod 2K; [1/2] E Mod 2K; [MILE] E Mod 2K;



OH049-61+38SB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [61] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Fayetteville] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;

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

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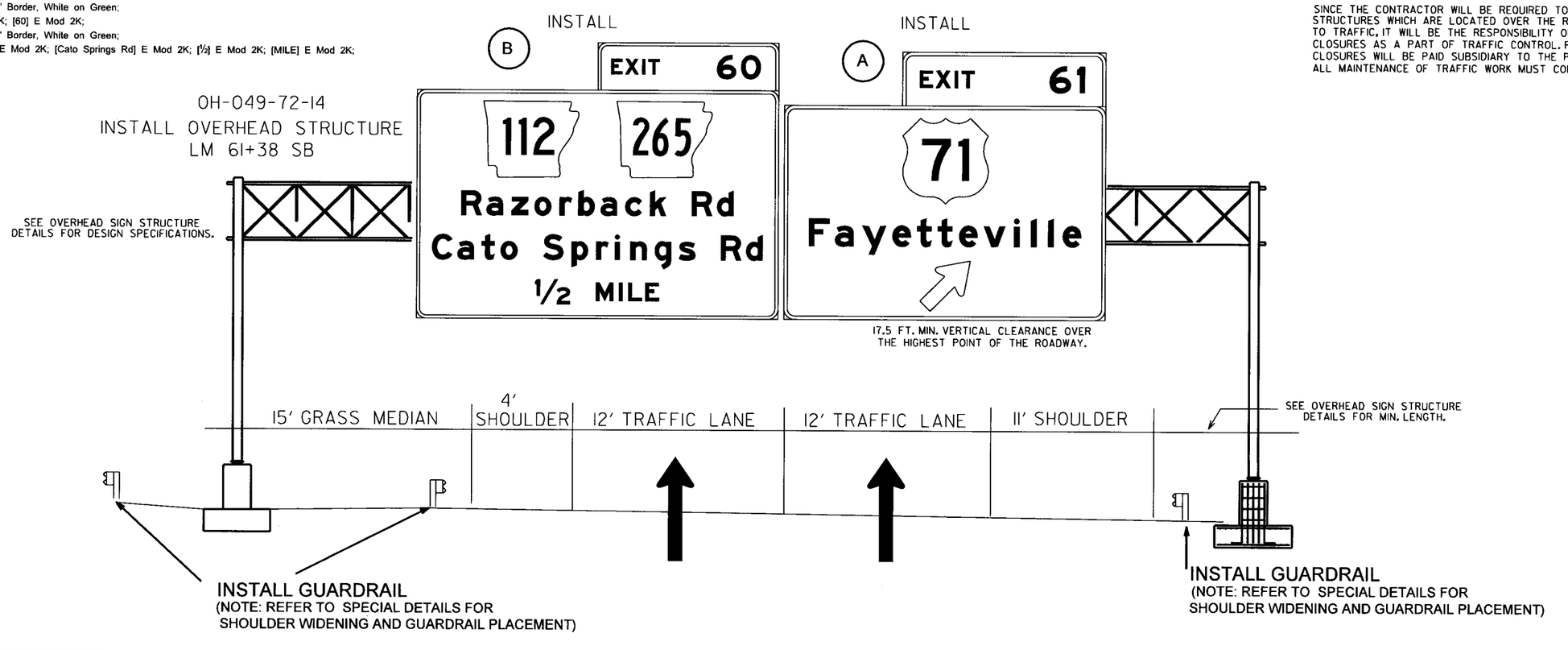
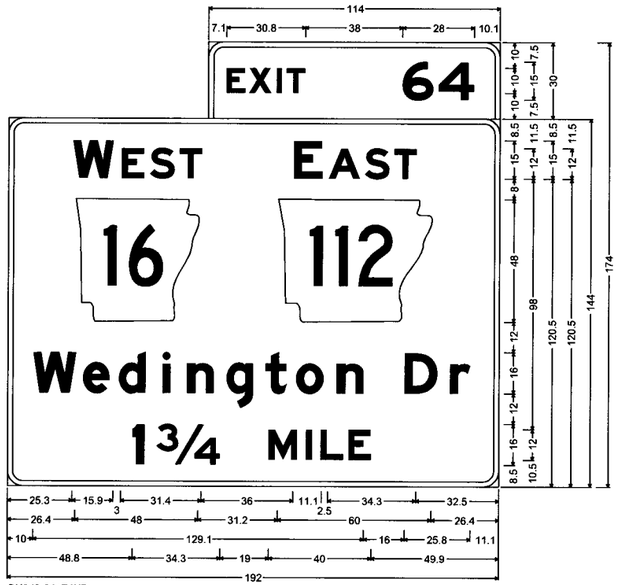


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTIN
6-22-18

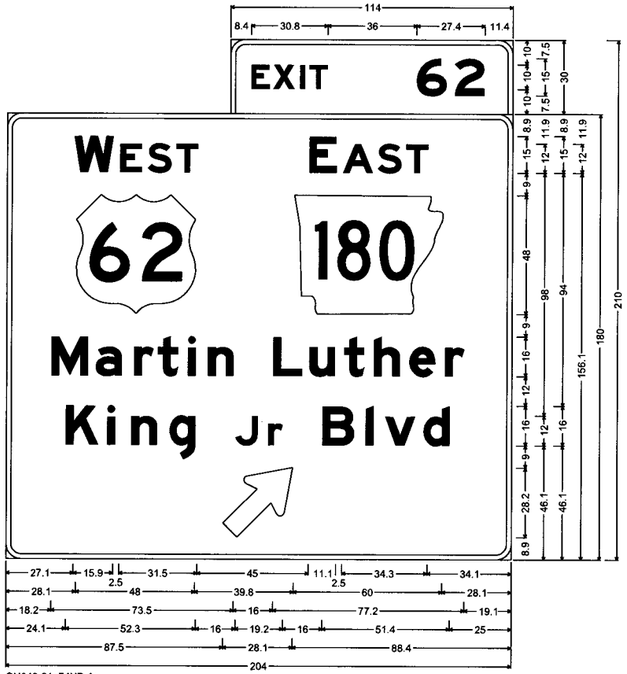
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		0225	123	194

② SIGN LAYOUT SHEET

OH-049-72-15



OH049-61+74NB;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [64] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[W] E Mod 2K; [EST] E Mod 2K; [E] E Mod 2K; [AST] E Mod 2K;
[Wedington Dr] E Mod 2K; [1¾] E Mod 2K; [MILE] E Mod 2K;

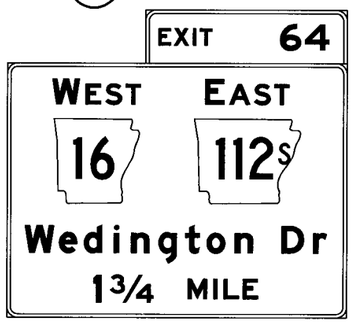


OH049-61+74NB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [62] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[W] E Mod 2K; [EST] E Mod 2K; [E] E Mod 2K; [AST] E Mod 2K;
[Martin Luther] E Mod 2K 75% spacing; [King] E Mod 2K; [Jr] E Mod 2K; [Blvd] E Mod 2K;
Standard Arrow Custom 0.0" X 21.6" 45°;

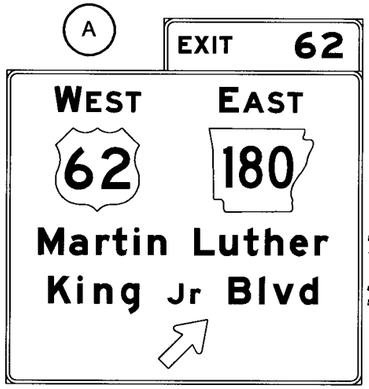
OH-049-72-15
INSTALL OVERHEAD STRUCTURE
LM 61+74 NB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

B INSTALL



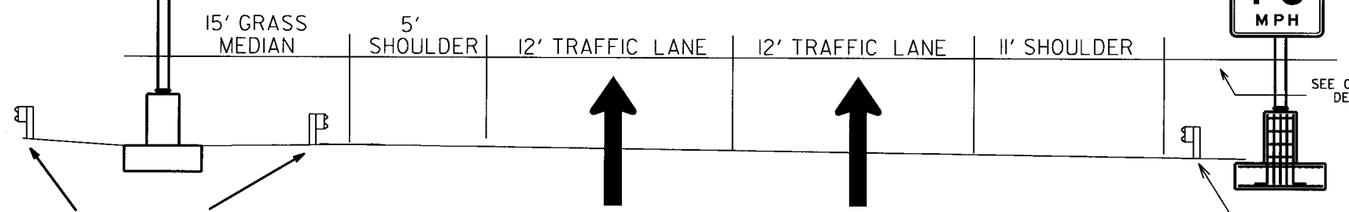
A INSTALL



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

INSTALL
SS-49-61+74NB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR MIN. LENGTH.



INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

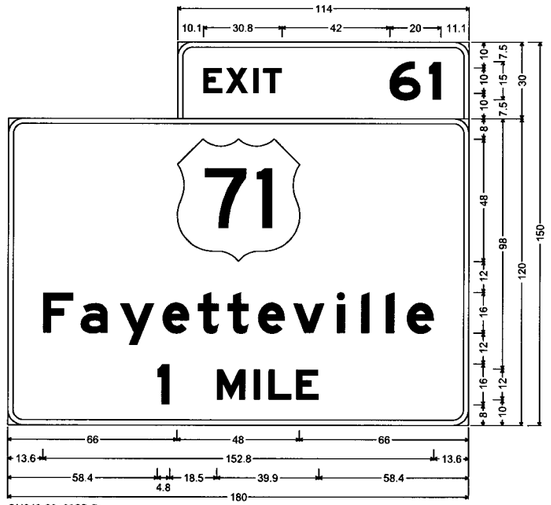
NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

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.

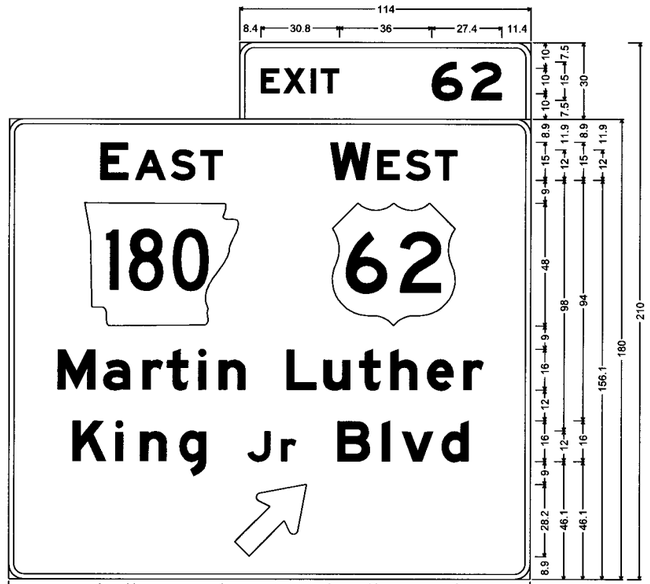
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02225	124	194

② SIGN LAYOUT SHEET

OH-049-72-16



OH049-62+68SB-B;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [61] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Fayetteville] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;



OH049-62+68SB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [62] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[E] E Mod 2K; [AST] E Mod 2K; [W] E Mod 2K; [EST] E Mod 2K;
[Martin Luther] E Mod 2K 75% spacing; [King] E Mod 2K; [Jr] E Mod 2K; [Blvd] E Mod 2K;
Standard Arrow Custom 0.0" X 21.6" 45";

OH-049-72-16
INSTALL OVERHEAD STRUCTURE
LM 62+68 SB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

INSTALL
(A)
EXIT 62
EAST WEST
180 62
Martin Luther King Jr Blvd

INSTALL
(B)
EXIT 61
71
Fayetteville
1 MILE

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

EXIT
45
MPH

INSTALL
SS-49-62+68SB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR MIN. LENGTH.

7'6" SHOULDER | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 11' SHOULDER

BARRIER WALL
FOUNDATION AND BARRIER TRANSITION REQ'D

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

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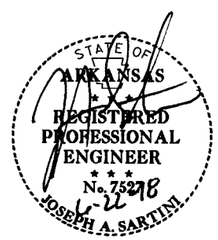
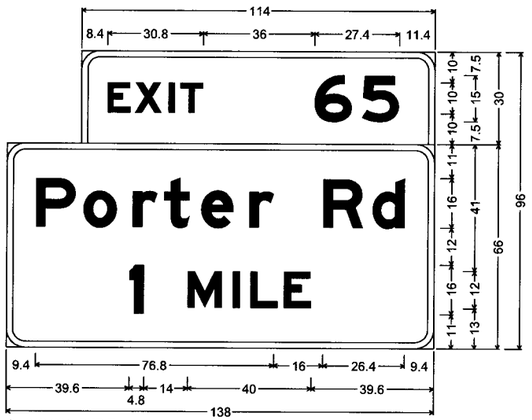
SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID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



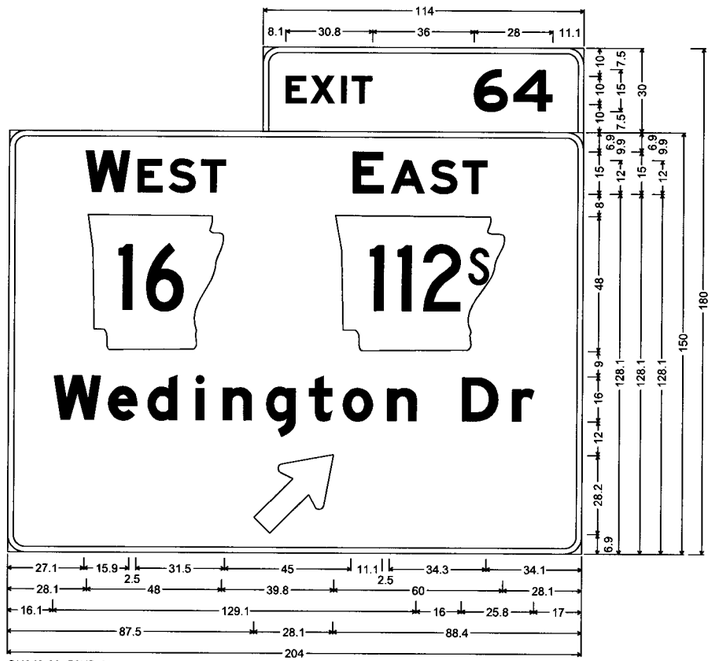
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		010225	125	194

② SIGN LAYOUT SHEET

OH-049-72-17

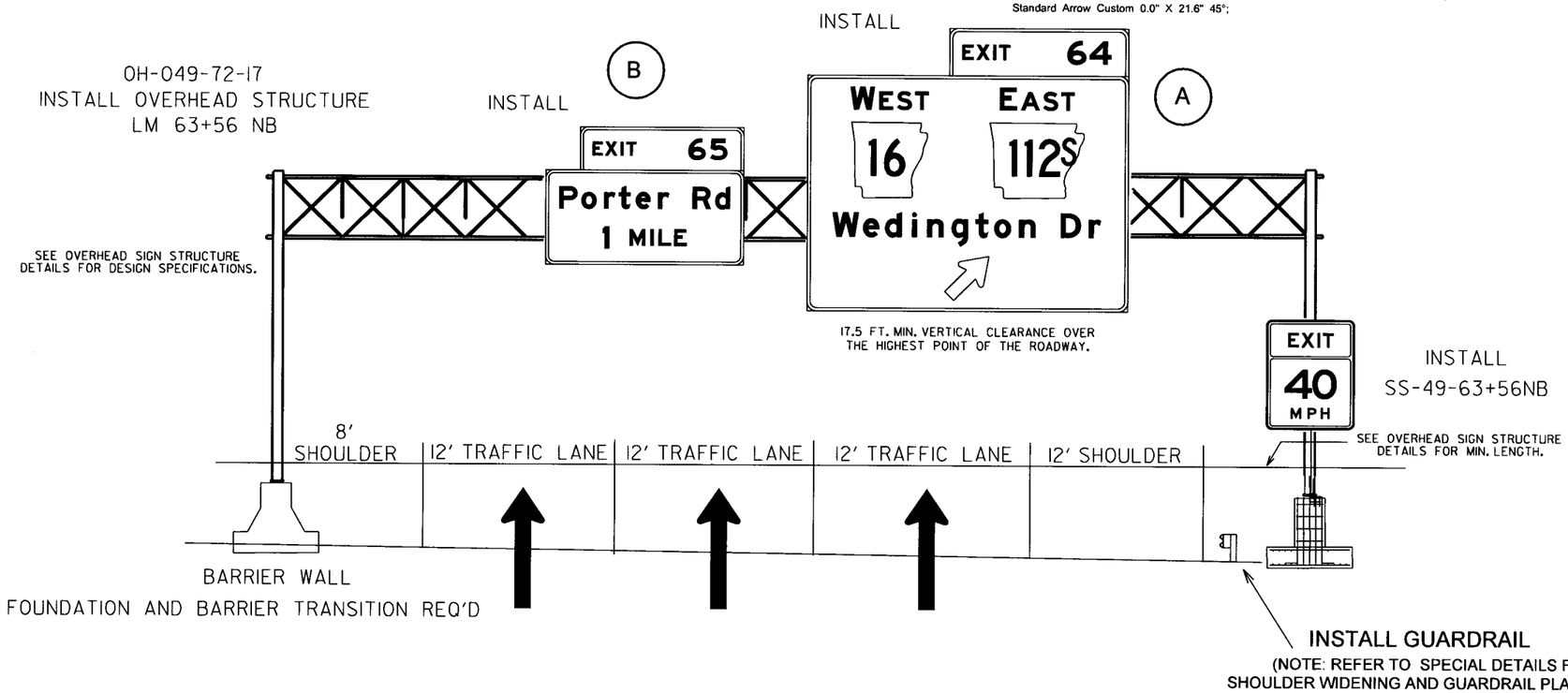


OH049-63+56NB-B;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [65] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Porter Rd] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;



OH049-63+56NB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [64] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[W] E Mod 2K; [EST] E Mod 2K; [E] E Mod 2K; [AST] E Mod 2K; [Wedington Dr] E Mod 2K;
Standard Arrow Custom 0.0" X 21.6" 45°;

OH-049-72-17
INSTALL OVERHEAD STRUCTURE
LM 63+56 NB



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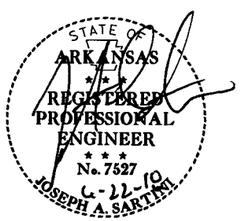
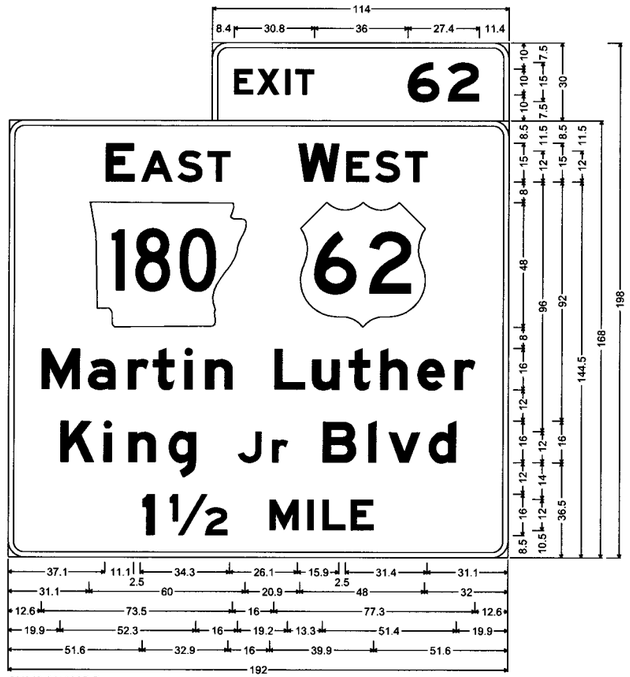
SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID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



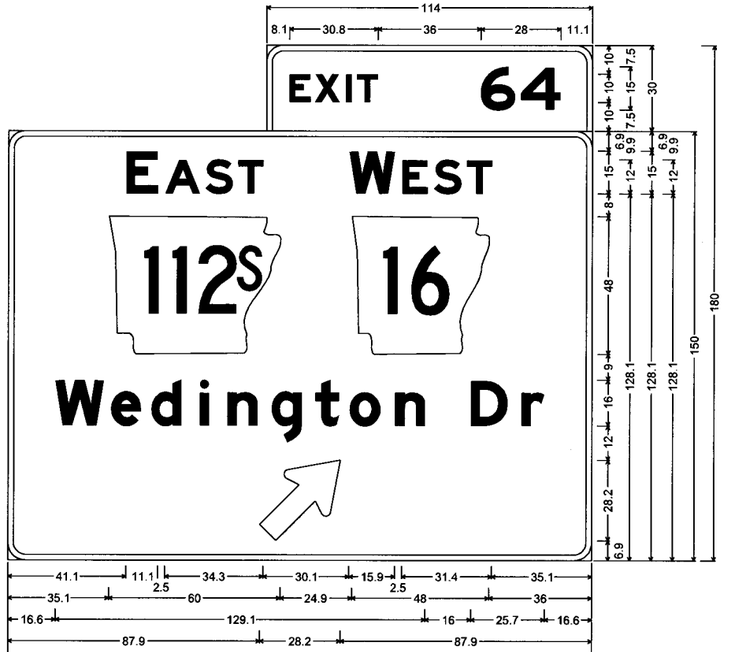
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	126	194

② SIGN LAYOUT SHEET

OH-049-72-18



OH049-64+16SB-B;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [62] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[E] E Mod 2K; [AST] E Mod 2K; [W] E Mod 2K; [EST] E Mod 2K;
[Martin Luther] E Mod 2K 75% spacing; [King] E Mod 2K; [Jr] E Mod 2K; [Blvd] E Mod 2K;
[1½] E Mod 2K; [MILE] E Mod 2K;



OH049-64+16SB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [64] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[E] E Mod 2K; [AST] E Mod 2K; [W] E Mod 2K; [EST] E Mod 2K; [Wedington Dr] E Mod 2K;
Standard Arrow Custom 0.0" X 21.6" 45°;

INSTALL

B

EXIT 62
EAST WEST
180 62
Martin Luther
King Jr Blvd
1½ MILE

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

INSTALL

A

EXIT 64
EAST WEST
112S 16
Wedington Dr

OH-049-72-18
INSTALL OVERHEAD STRUCTURE
LM 64+16 SB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

EXIT 40 MPH

INSTALL
SS-49-64+16SB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR MIN. LENGTH.

7'6" SHOULDER | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 12' TRAFFIC LANE | 11'6" SHOULDER

BARRIER WALL
ANCHOR BOLTS INSTALLED

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

NOTES:
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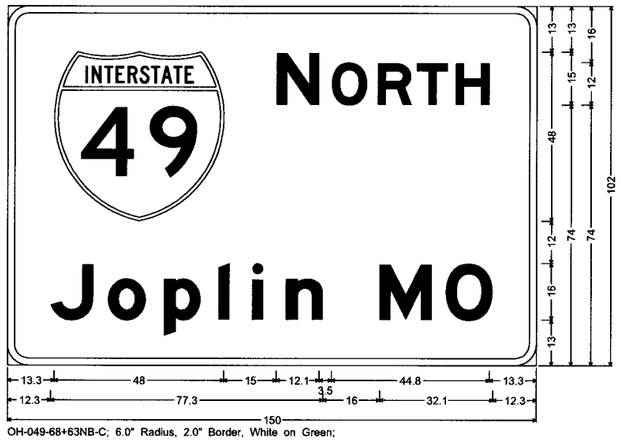
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-19
JOSEPH A. SARTINI

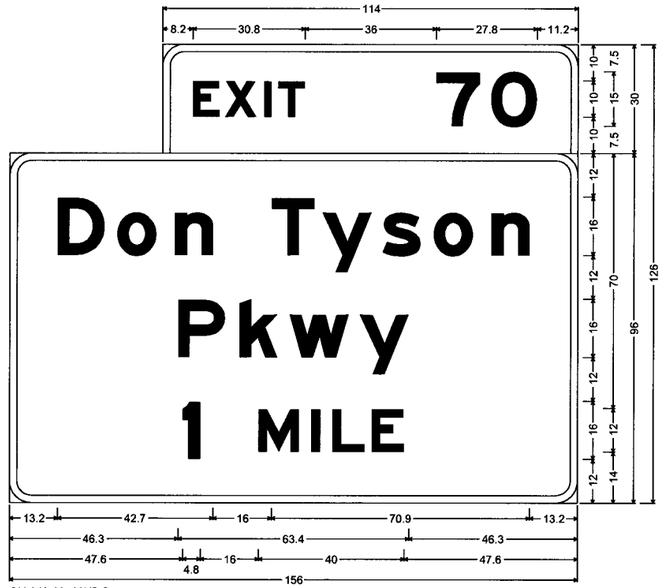
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		01225	127	194

② SIGN LAYOUT SHEET

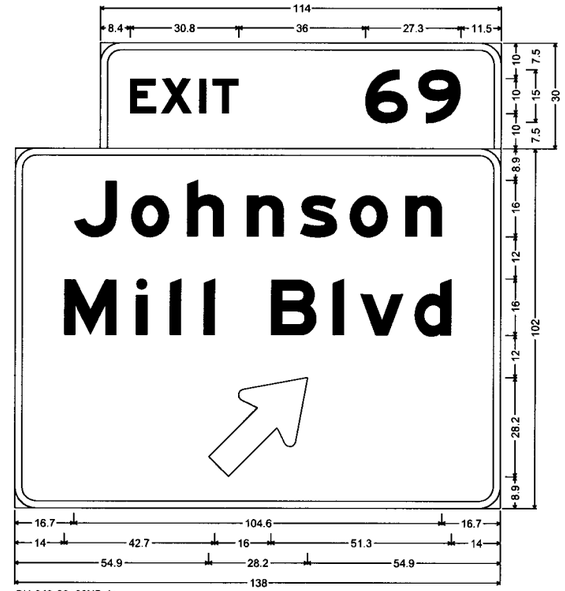
OH-049-72-20



OH-049-68+63NB-C; 6.0" Radius, 2.0" Border, White on Green;
[N] E Mod 2K; [ORTH] E Mod 2K; [Joplin MO] E Mod 2K;



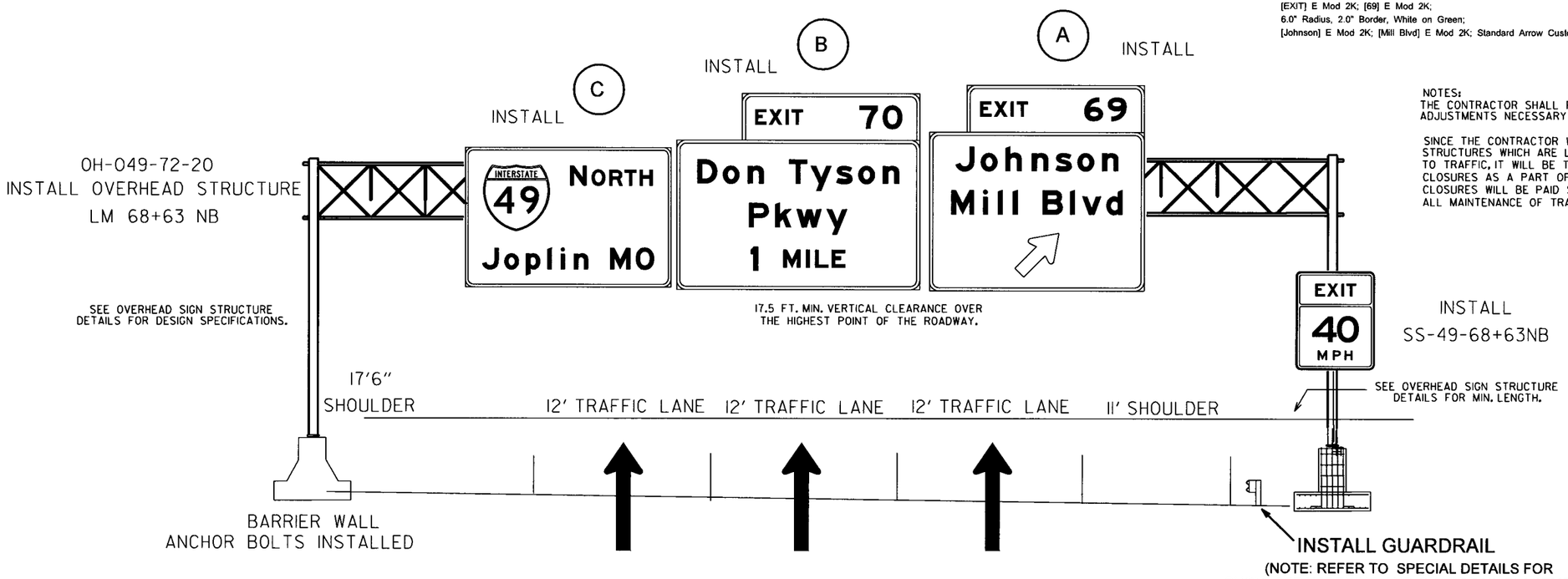
OH-049-68+63NB-B;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [70] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Don Tyson] E Mod 2K; [Pkwy] E Mod 2K; [1 MILE] E Mod 2K;



OH-049-68+63NB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [69] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Johnson] E Mod 2K; [Mill Blvd] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;

OH-049-72-20
INSTALL OVERHEAD STRUCTURE
LM 68+63 NB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.



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

INSTALL
SS-49-68+63NB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR MIN. LENGTH.

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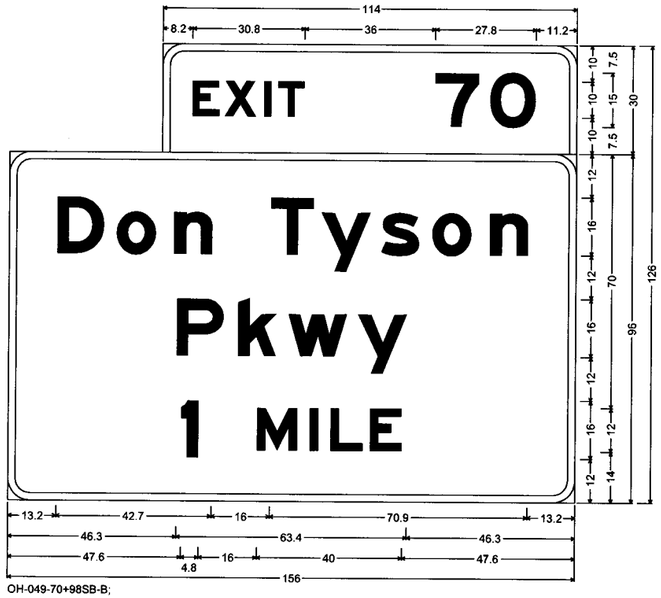
SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID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

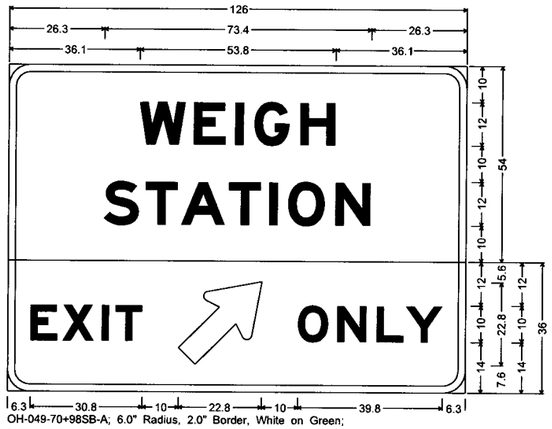
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02225	128	194

② SIGN LAYOUT SHEET

OH-049-72-21



OH-049-70+98SB-B;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [70] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Don Tyson] E Mod 2K; [Pkwy] E Mod 2K; [1 MILE] E Mod 2K;



OH-049-70+98SB-A; 6.0" Radius, 2.0" Border, White on Green;
[WEIGH] E Mod 2K; [STATION] E Mod 2K;
6.0" Radius, 2.0" Border, Black on Yellow;
[EXIT] E Mod 2K; Standard Arrow Custom 0.0" X 17.6" 45°; [ONLY] E Mod 2K;

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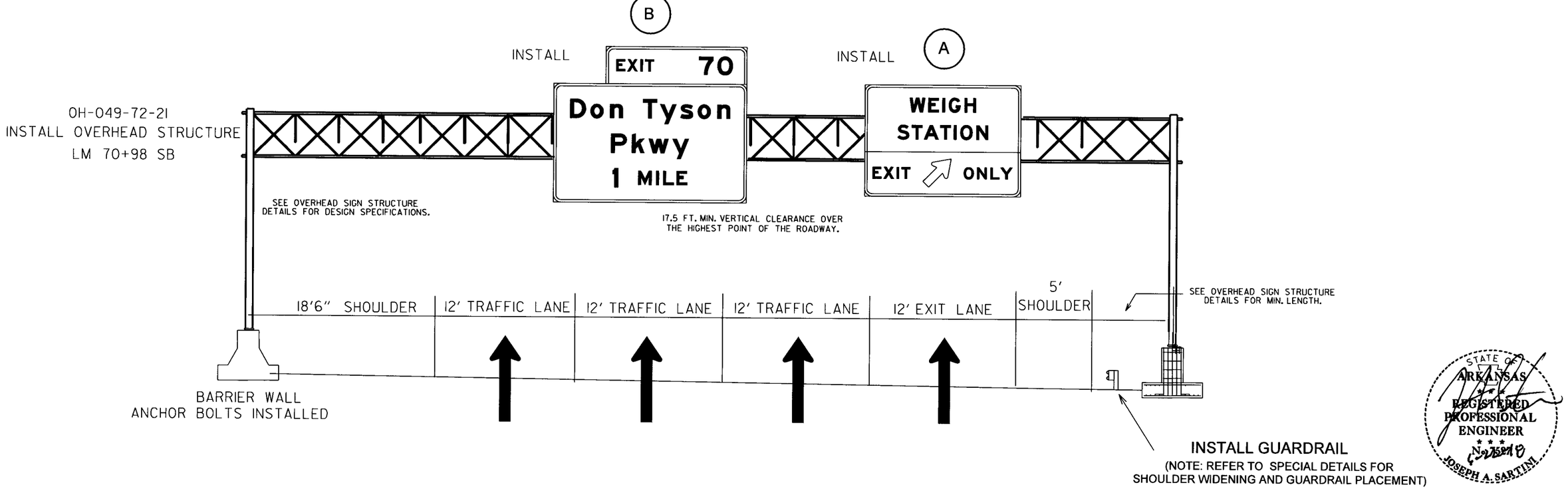
SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID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

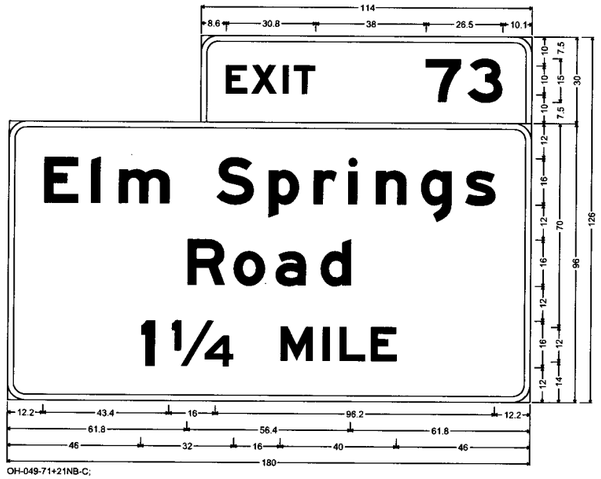


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15210
JOSEPH A. SARTINI

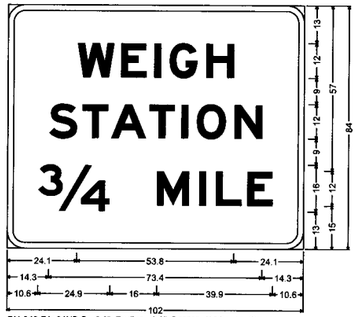
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	129	194

② SIGN LAYOUT SHEET

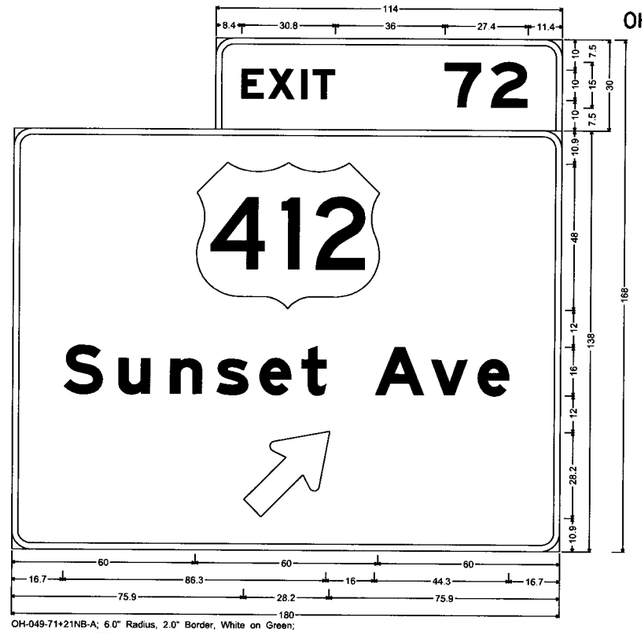
OH-049-72-22



OH-049-71+21NB-C;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [73] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Elm Springs] E Mod 2K; [Road] E Mod 2K; [1¼] E Mod 2K; [MILE] E Mod 2K;



OH-049-71+21NB-B; 6.0" Radius, 2.0" Border, White on Green;
[WEIGH] E Mod 2K; [STATION] E Mod 2K; [¾ MILE] E Mod 2K;



OH-049-71+21NB-A; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [72] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Sunset Ave] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;

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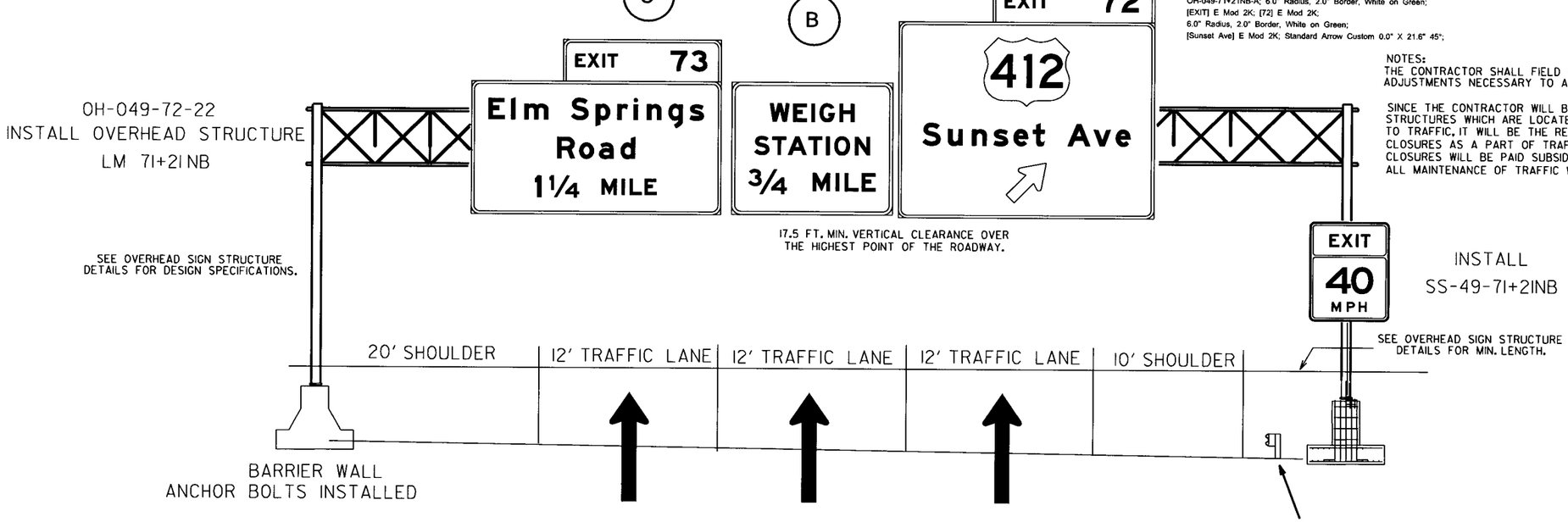
SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID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

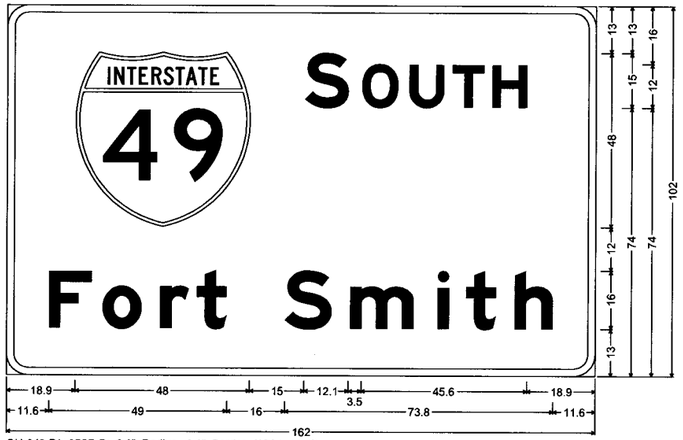


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
4-22-19
JOSEPH A. SARTIN

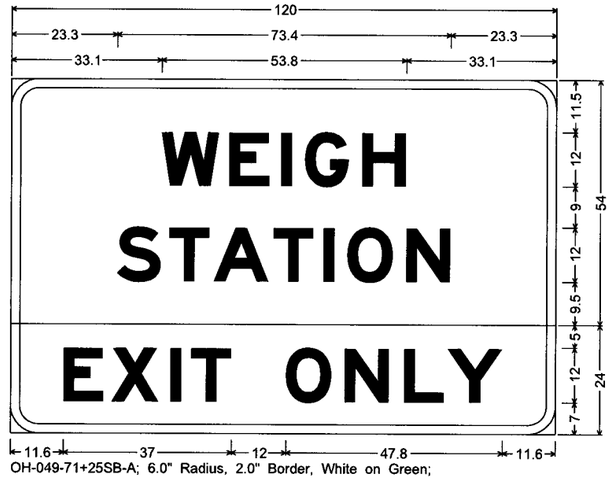
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02225	130	194

② SIGN LAYOUT SHEET

OH-049-72-23



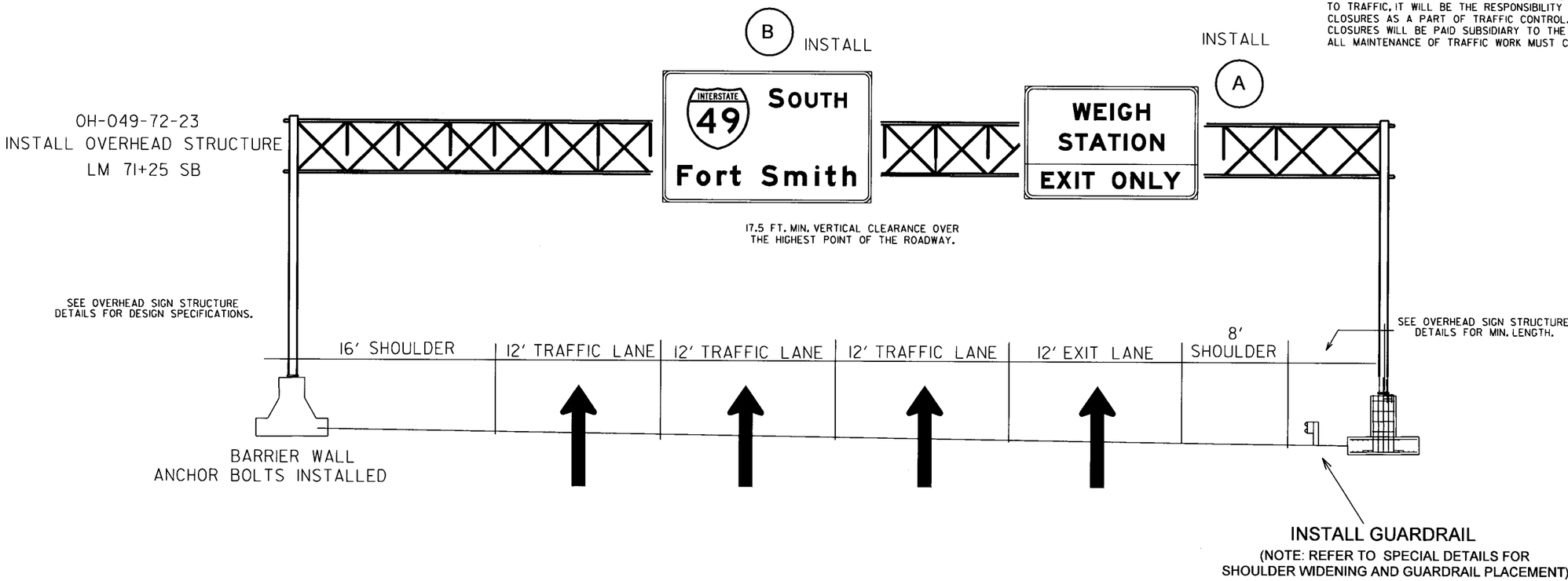
OH-049-71+25SB-B; 6.0" Radius, 2.0" Border, White on Green;
[S] E Mod 2K; [OUTH] E Mod 2K; [Fort Smith] E Mod 2K;



OH-049-71+25SB-A; 6.0" Radius, 2.0" Border, White on Green;
[WEIGH] E Mod 2K; [STATION] E Mod 2K;
6.0" Radius, 2.0" Border, Black on Yellow;
[EXIT ONLY] E Mod 2K;

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.

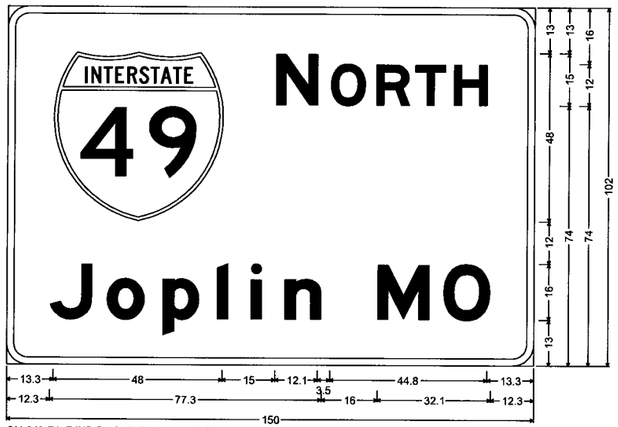


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-11-13
JOSEPH A. SARTINI

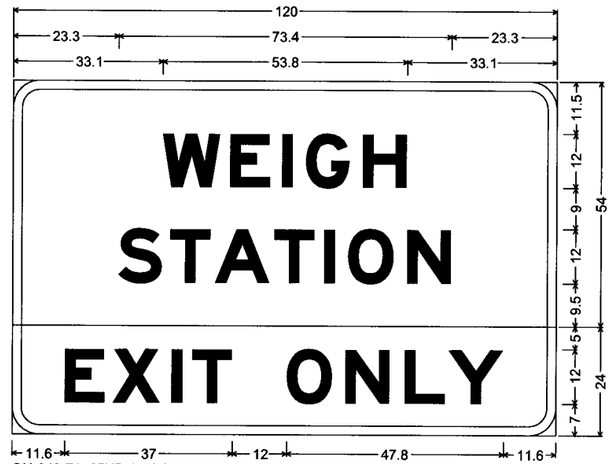
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	131	194

② SIGN LAYOUT SHEET

OH-049-72-24



OH-049-71+74NB-B; 6.0" Radius, 2.0" Border, White on Green;
[N] E Mod 2K; [ORTH] E Mod 2K; [Joplin MO] E Mod 2K;



OH-049-71+25NB-A; 6.0" Radius, 2.0" Border, White on Green;
[WEIGH] E Mod 2K; [STATION] E Mod 2K;
6.0" Radius, 2.0" Border, Black on Yellow;
[EXIT ONLY] E Mod 2K;

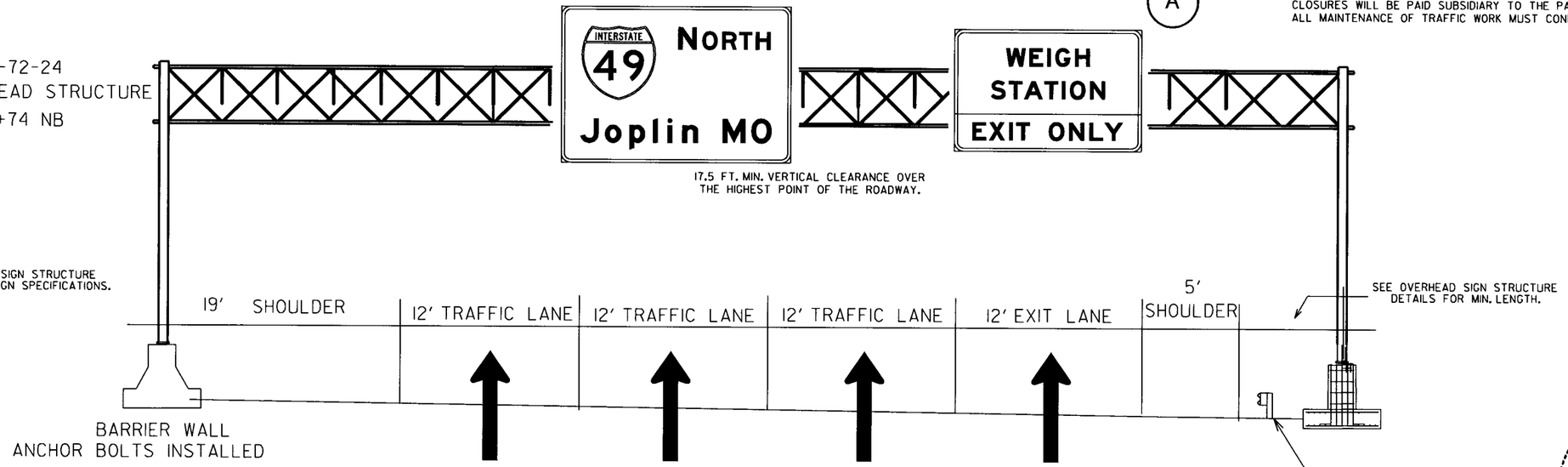
INSTALL
(B)

INSTALL
(A)

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-049-72-24
INSTALL OVERHEAD STRUCTURE
LM 71+74 NB

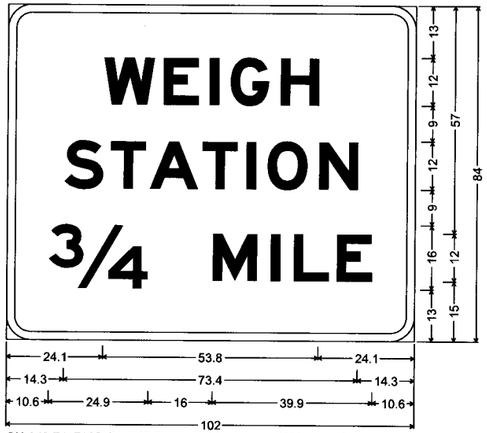


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
10-22-19
JOSEPH A. SARTIN

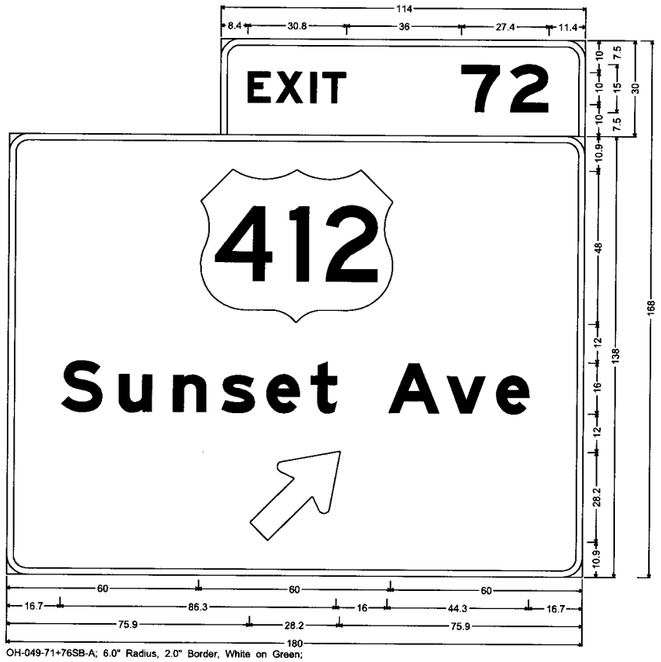
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	132	194

② SIGN LAYOUT SHEET

OH-049-72-25



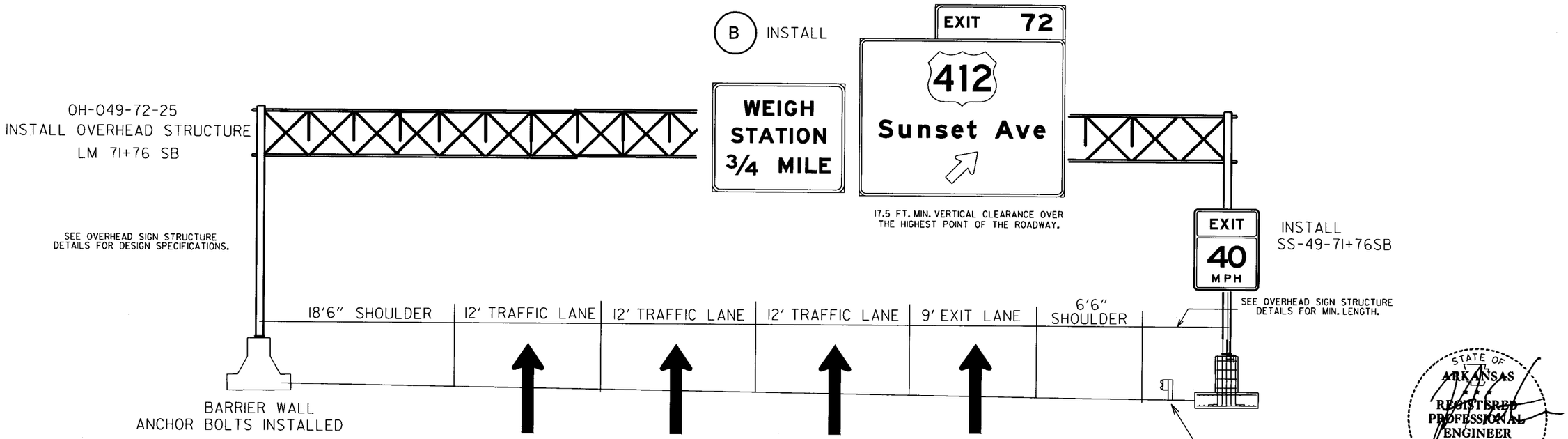
OH-049-71+76SB-B; 6.0" Radius, 2.0" Border, White on Green;
[WEIGH] E Mod 2K; [STATION] E Mod 2K; [¾ MILE] E Mod 2K;



OH-049-71+76SB-A; 6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [72] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Sunset Ave] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;

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

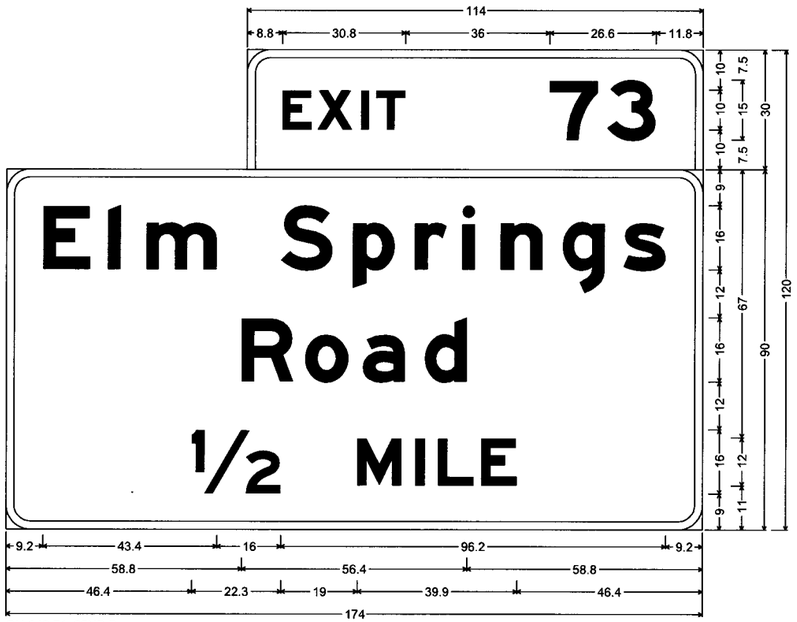
SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID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



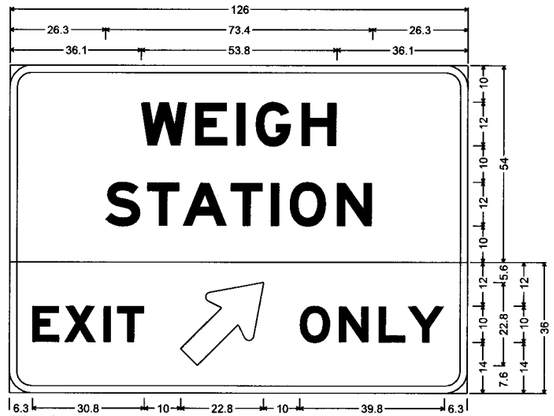
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-19
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	133	194
				②	SIGN LAYOUT SHEET			

OH-049-72-26



OH-049-71+95NB-B;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [73] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Elm Springs] E Mod 2K; [Road] E Mod 2K; [½] E Mod 2K; [MILE] E Mod 2K;



OH-049-71+95NB-A; 6.0" Radius, 2.0" Border, White on Green;
[WEIGH] E Mod 2K; [STATION] E Mod 2K;
6.0" Radius, 2.0" Border, Black on Yellow;
[EXIT] E Mod 2K; Standard Arrow Custom 0.0" X 17.6" 45°; [ONLY] E Mod 2K;

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.

B INSTALL

A INSTALL

OH-049-72-26
INSTALL OVERHEAD STRUCTURE
LM 71+95 NB

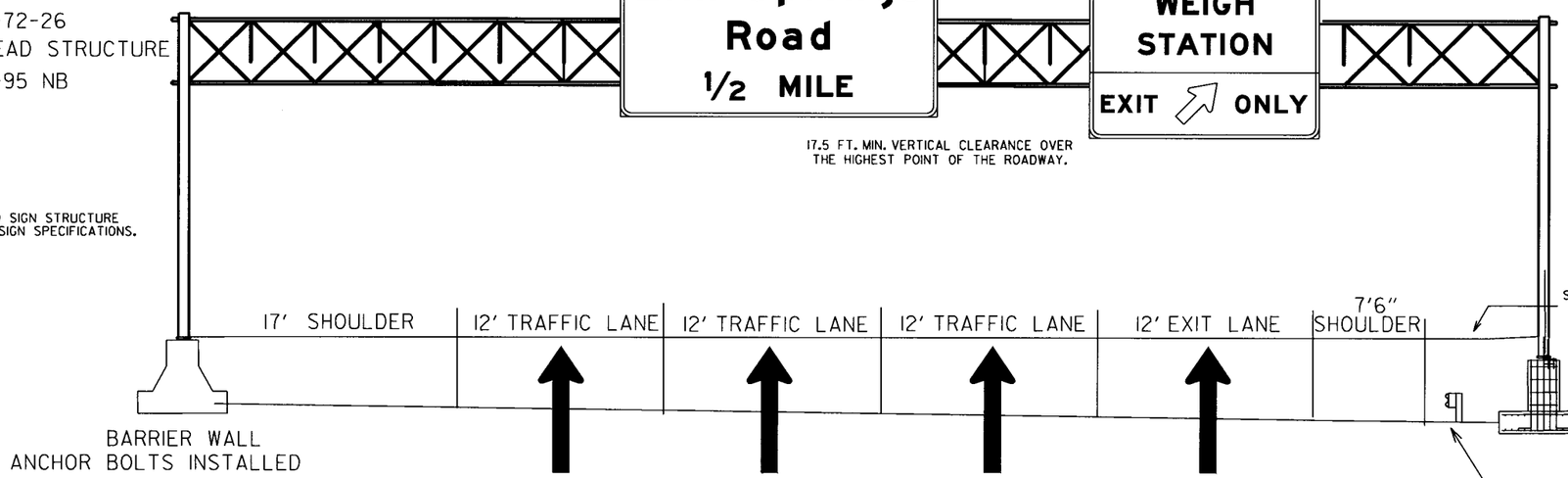
EXIT 73
Elm Springs
Road
1/2 MILE

WEIGH
STATION
EXIT ONLY

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

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR MIN. LENGTH.



BARRIER WALL
ANCHOR BOLTS INSTALLED

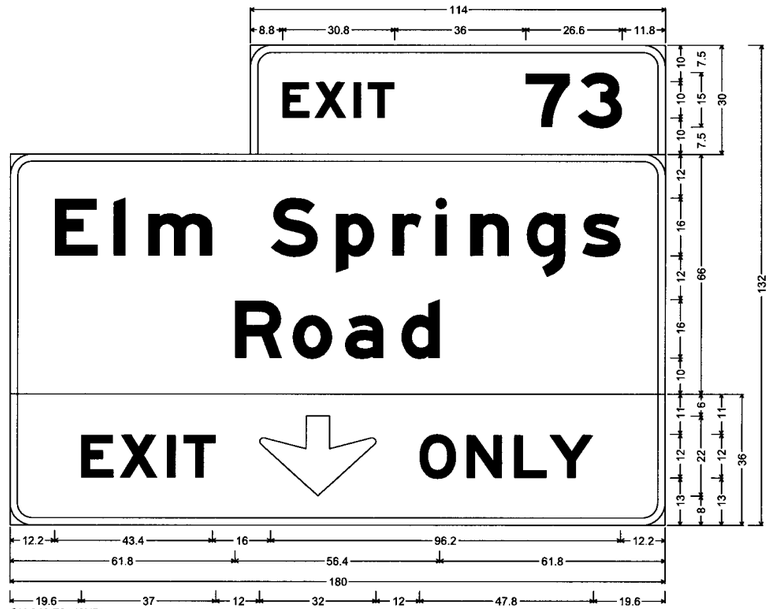
INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

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

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02225	134	144

② SIGN LAYOUT SHEET

OH-049-72-27



OH-049-72+40NB;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [73] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Elm Springs] E Mod 2K; [Road] E Mod 2K;
6.0" Radius, 2.0" Border, Black on Yellow;
[EXIT] E Mod 2K; Down Arrow 22.0" 270°; [ONLY] E Mod 2K;

NOTES:
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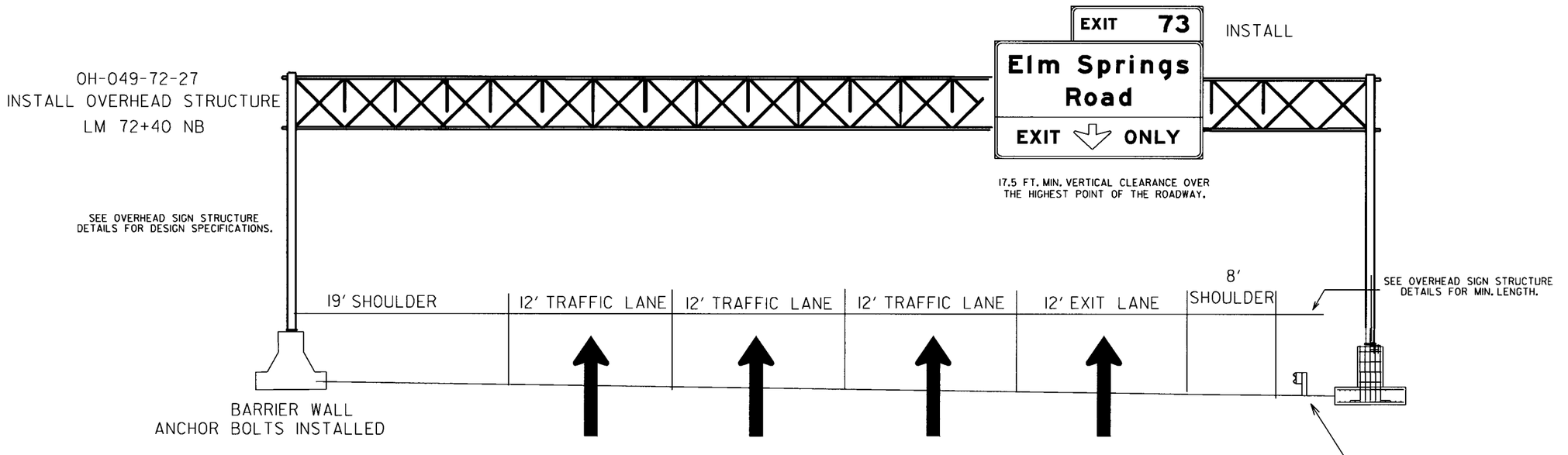
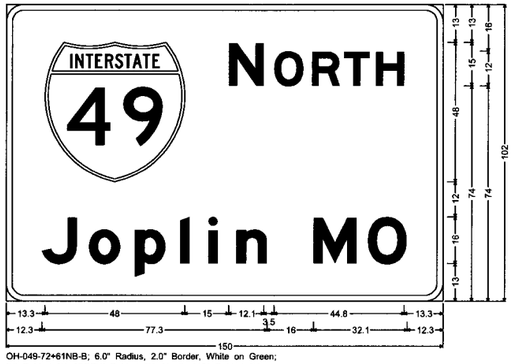


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-18
JOSEPH A. SARTIN

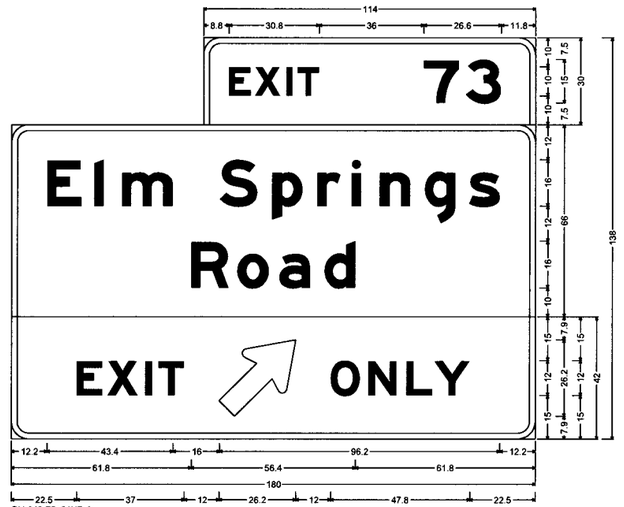
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	135	194

② SIGN LAYOUT SHEET

OH-049-72-28



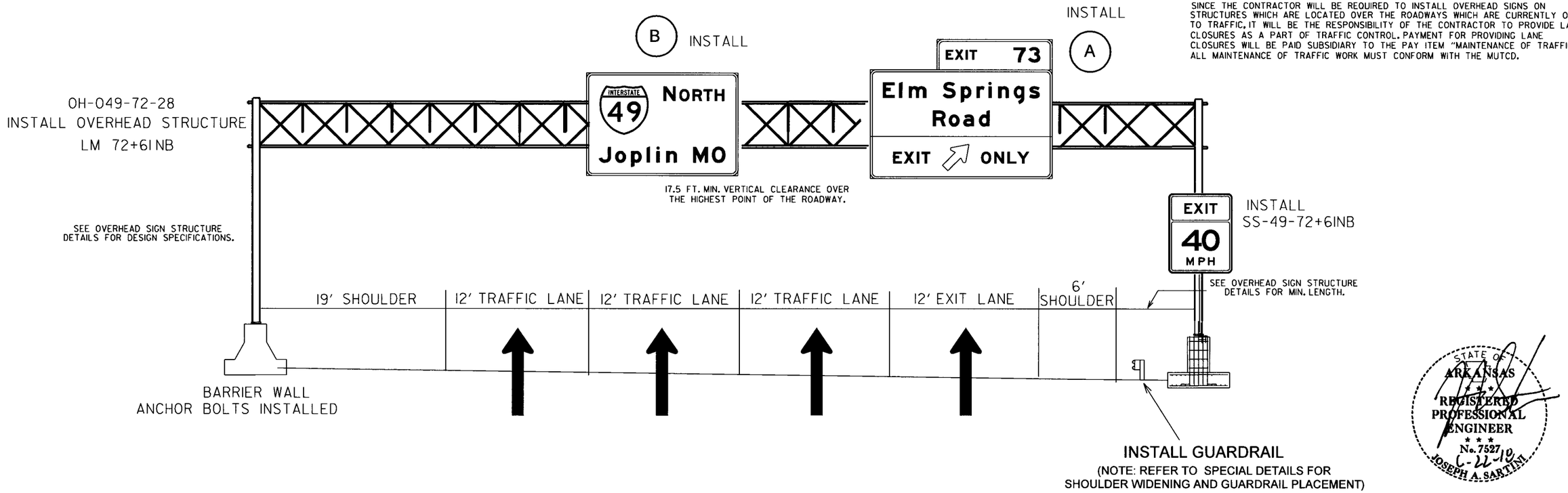
OH-049-72+61NB-B; 6.0" Radius, 2.0" Border, White on Green;
[N] E Mod 2K; [ORTH] E Mod 2K; [Joplin MO] E Mod 2K;



OH-049-72+61NB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [73] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Elm Springs] E Mod 2K; [Road] E Mod 2K;
6.0" Radius, 2.0" Border, Black on Yellow;
[EXIT] E Mod 2K; Standard Arrow Custom 0.0" X 20.3" 45"; [ONLY] E Mod 2K;

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.

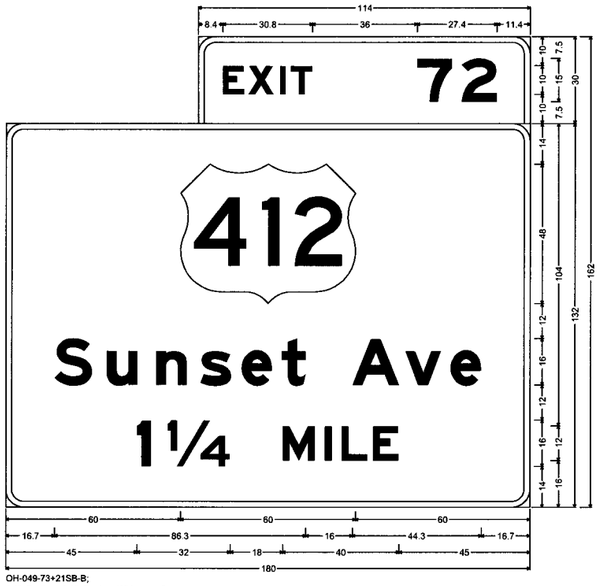


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-10
JOSEPH A. SARTIN

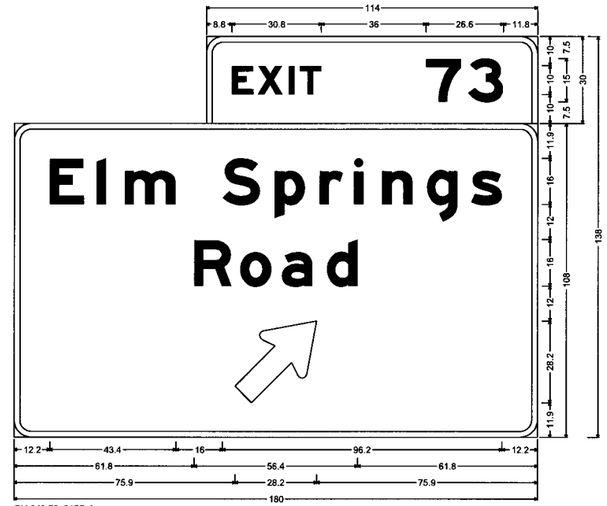
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02225	136	194

② SIGN LAYOUT SHEET

OH-049-72-29

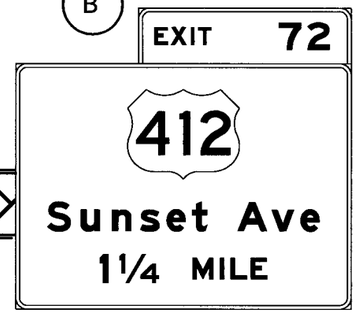


OH-049-73+21SB-B;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [72] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Sunset Ave] E Mod 2K; [1¼] E Mod 2K; [MILE] E Mod 2K;

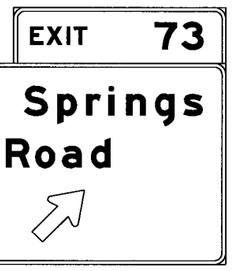


OH-049-73+21SB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [73] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Elm Springs] E Mod 2K; [Road] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;

B INSTALL



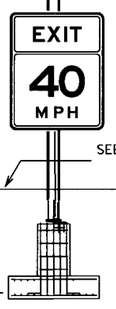
A INSTALL



OH-049-72-29
INSTALL OVERHEAD STRUCTURE
LM 73+21SB

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

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.



INSTALL
SS-49-73+21SB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR MIN. LENGTH.

BARRIER WALL
ANCHOR BOLTS INSTALLED

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

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.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		002215	137	194

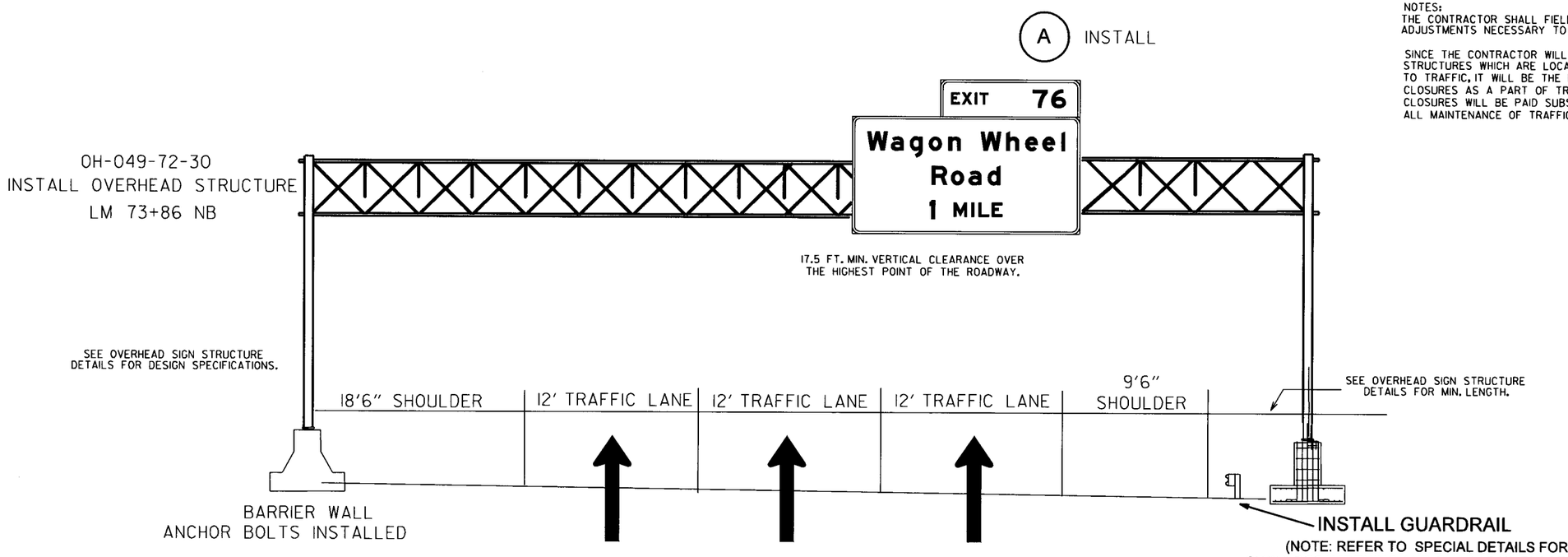
② SIGN LAYOUT SHEET

OH-049-72-30

OH-049-73+86NB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [76] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Wagon Wheel] E Mod 2K; [Road] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;

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
1-22-18
JOSEPH A. SARTIN

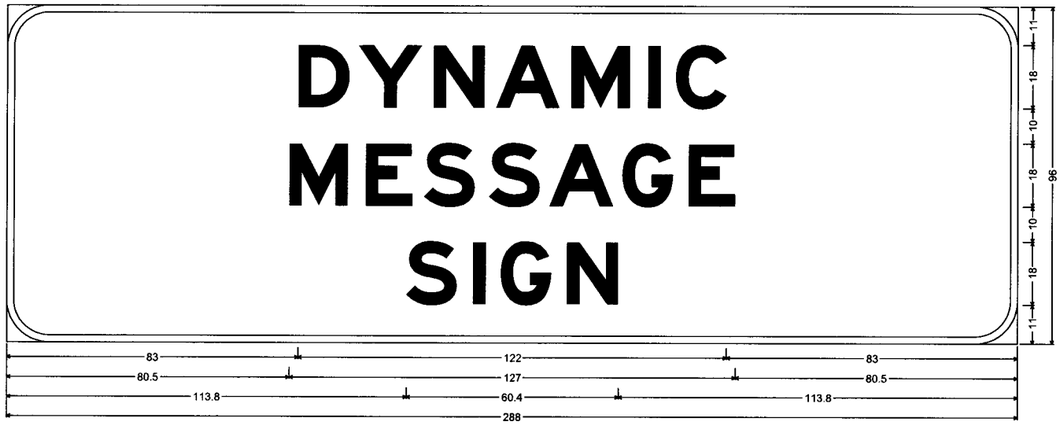
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		002215	138	194

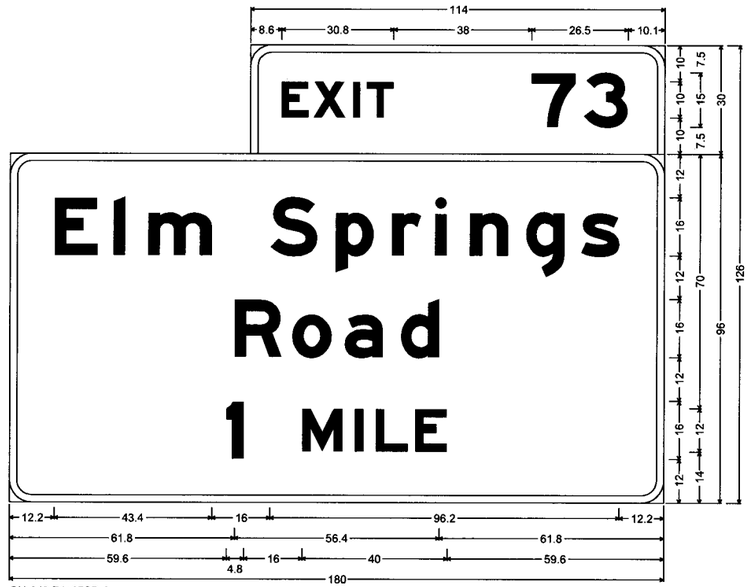
② SIGN LAYOUT SHEET

OH-049-72-31

THE DYNAMIC MESSAGE SIGN ASSEMBLY WILL BE CONSIDERED INSTALLED UPON REVIEW OF THE FINAL INSTALLATION BY THE ENGINEER. AT THIS TIME A TEN DAY TEST WILL COMMENCE WHEREIN ANYTHING THAT FAILS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS REQUIREMENT SHALL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT.

BARRIER MOUNTED MESSAGE BOARDS SHALL HAVE SERVICE CABINETS LOCATED ON THE OUTSIDE OVERHEAD STRUCTURE SUPPORT AS DIRECTED BY ENGINEER.





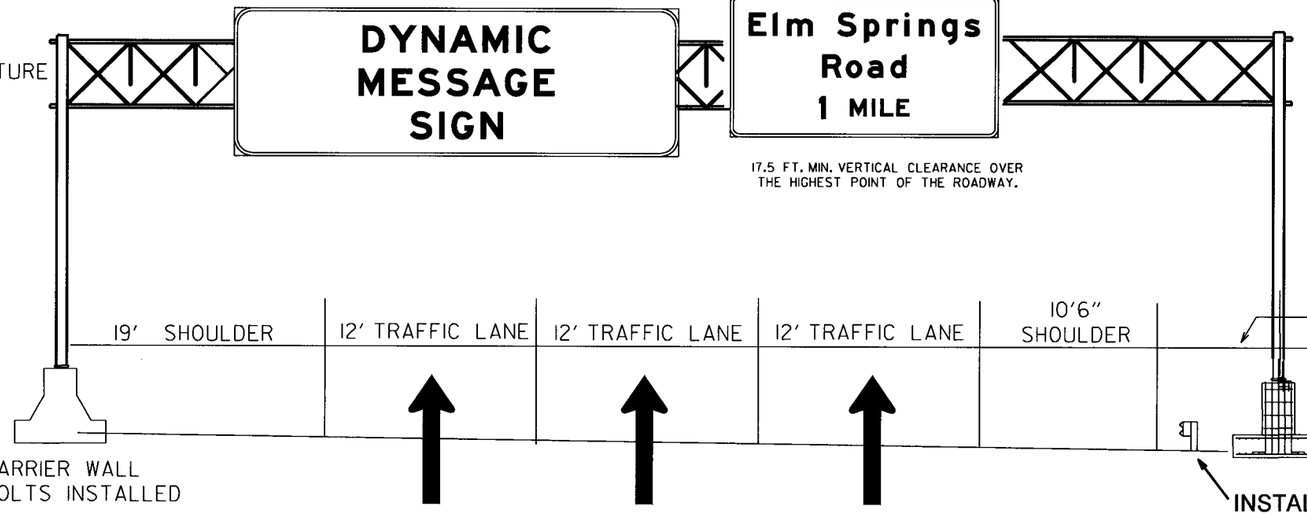
OH-049-74+05SB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [73] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Elm Springs] E Mod 2K; [Road] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;

B INSTALL

A INSTALL

OH-049-72-31
INSTALL OVERHEAD STRUCTURE
LM 74+05 SB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.



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

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR MIN. LENGTH.

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

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

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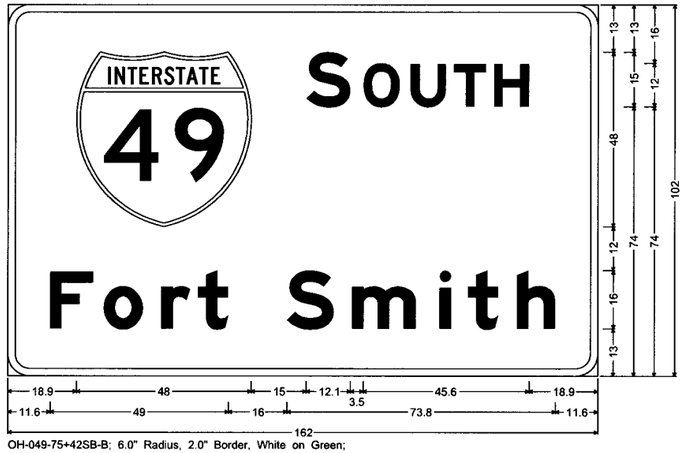
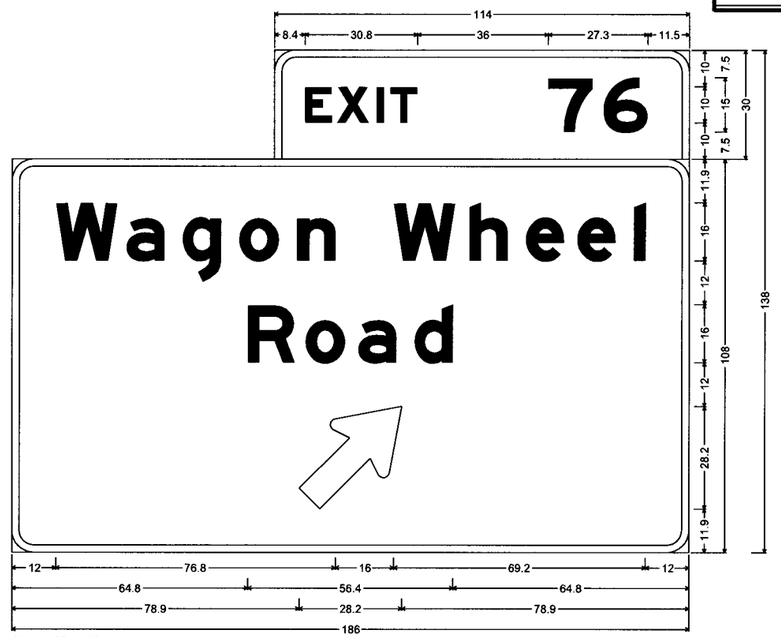
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		002215	139	194

② SIGN LAYOUT SHEET

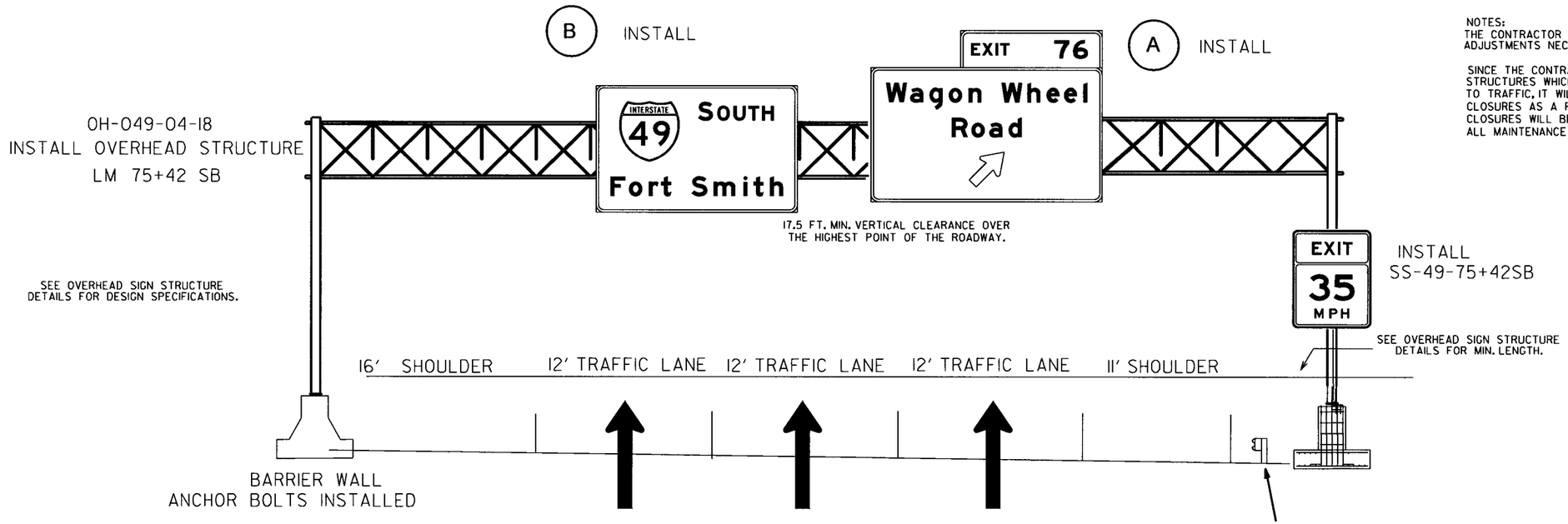
OH-049-04-18



OH-049-75+42SB-B; 6.0" Radius, 2.0" Border, White on Green;
[S] E Mod 2K; [OUTH] E Mod 2K; [Fort Smith] E Mod 2K;



OH-049-75+42SB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [76] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Wagon Wheel] E Mod 2K; [Road] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;



NOTES:
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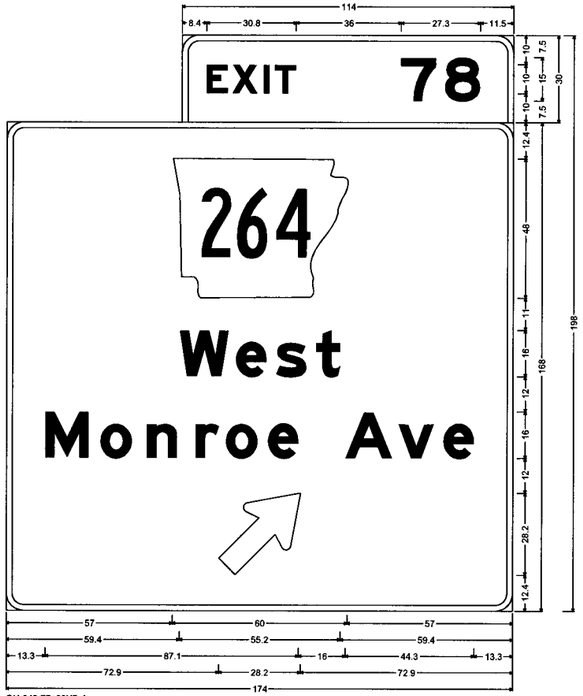
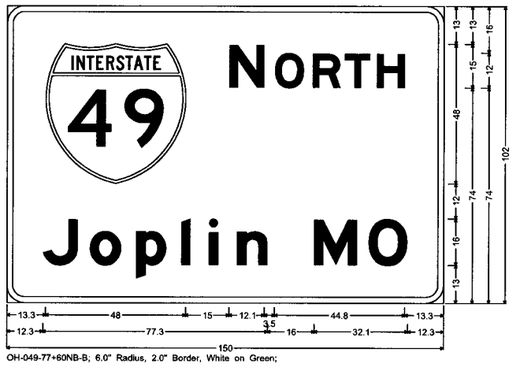
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		01225	140	194

② SIGN LAYOUT SHEET

OH-049-04-19



OH-049-77+60NB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [78] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[West] E Mod 2K; [Monroe Ave] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;



OH-049-77+60NB-B; 6.0" Radius, 2.0" Border, White on Green;
[N] E Mod 2K; [ORTH] E Mod 2K; [Joplin MO] E Mod 2K;

NOTES:
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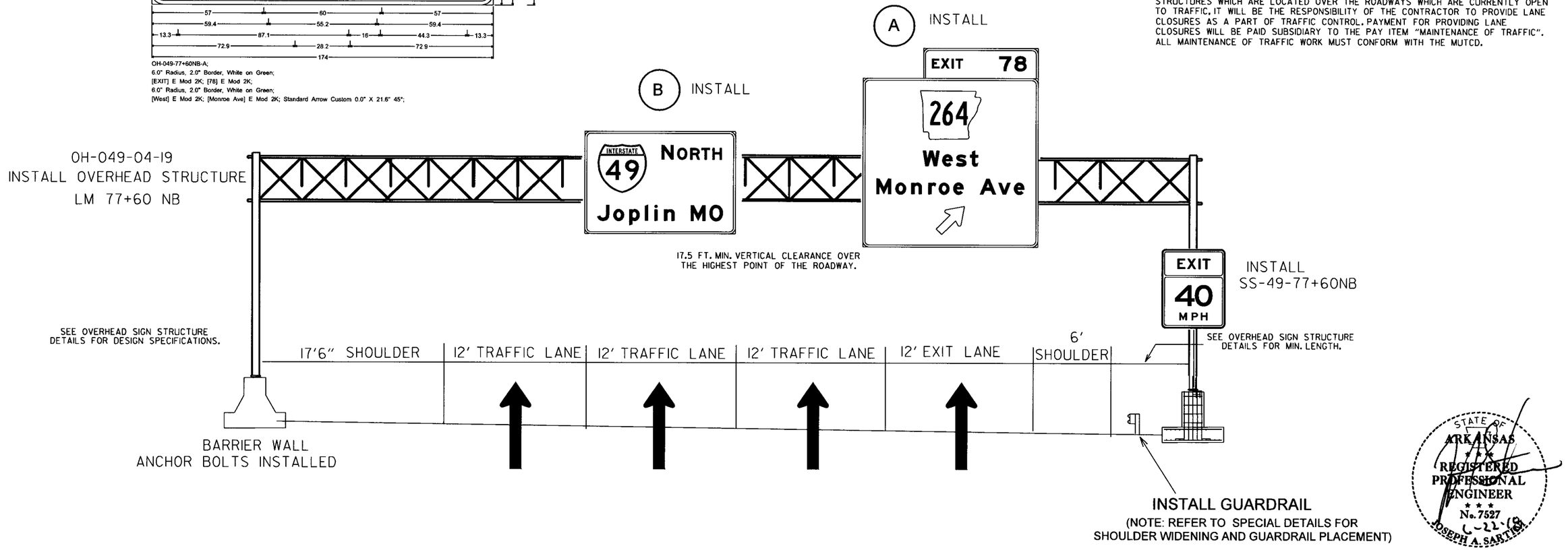


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
1-22-19
JOSEPH A. SARTIN

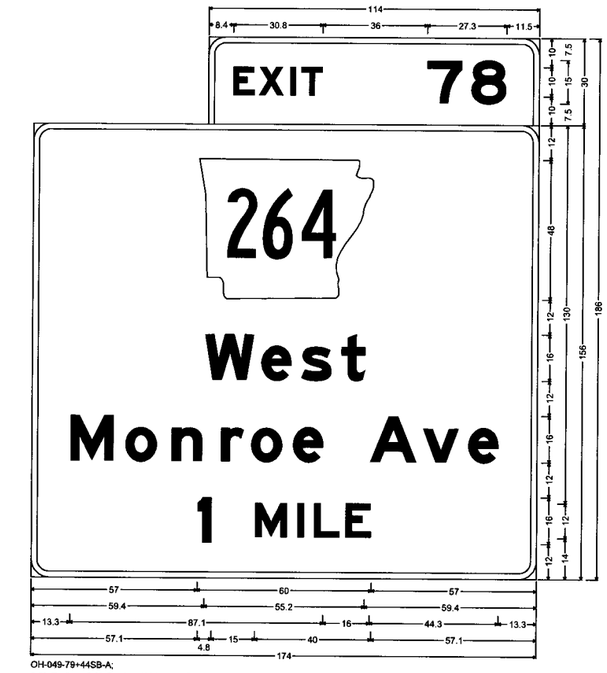
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02225	141	194

② SIGN LAYOUT SHEET

OH-049-04-21

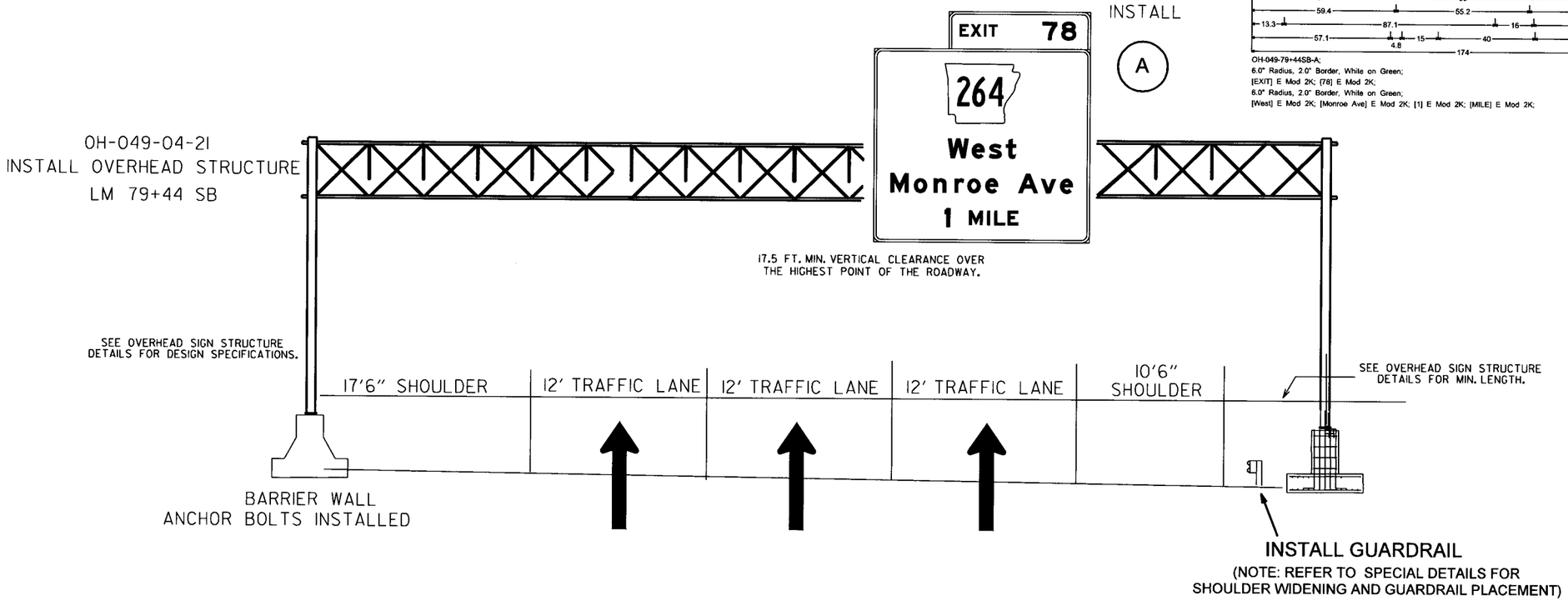
NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

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-049-79+44SB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [78] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[West] E Mod 2K; [Monroe Ave] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;

INSTALL (A)

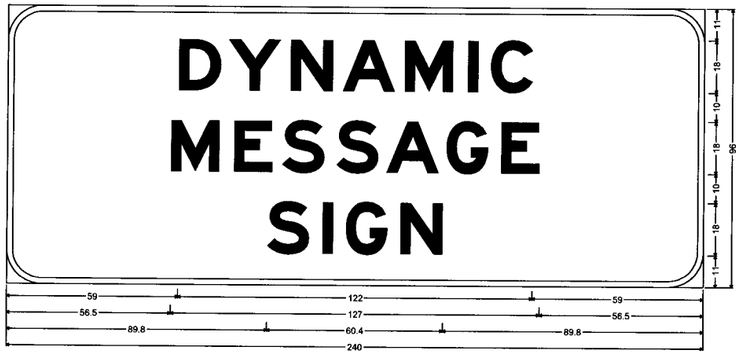


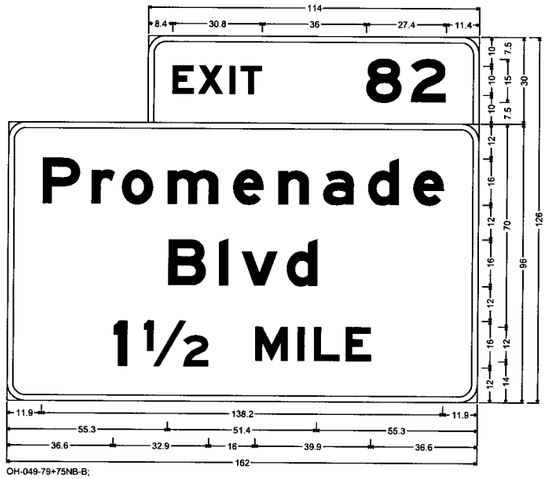
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTIN
6-22-12

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		01225	142	194

② SIGN LAYOUT SHEET

THE DYNAMIC MESSAGE SIGN ASSEMBLY WILL BE CONSIDERED INSTALLED UPON REVIEW OF THE FINAL INSTALLATION BY THE ENGINEER. AT THIS TIME A TEN DAY TEST WILL COMMENCE WHEREIN ANYTHING THAT FAILS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS REQUIREMENT SHALL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT.





OH-049-79+75NB-B;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [82] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Promenade] E Mod 2K; [Blvd] E Mod 2K; [1½] E Mod 2K; [MILE] E Mod 2K;

OH-049-79+75NB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [81] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Pleasant Grove] E Mod 2K; [Road] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;

OH-049-04-22

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

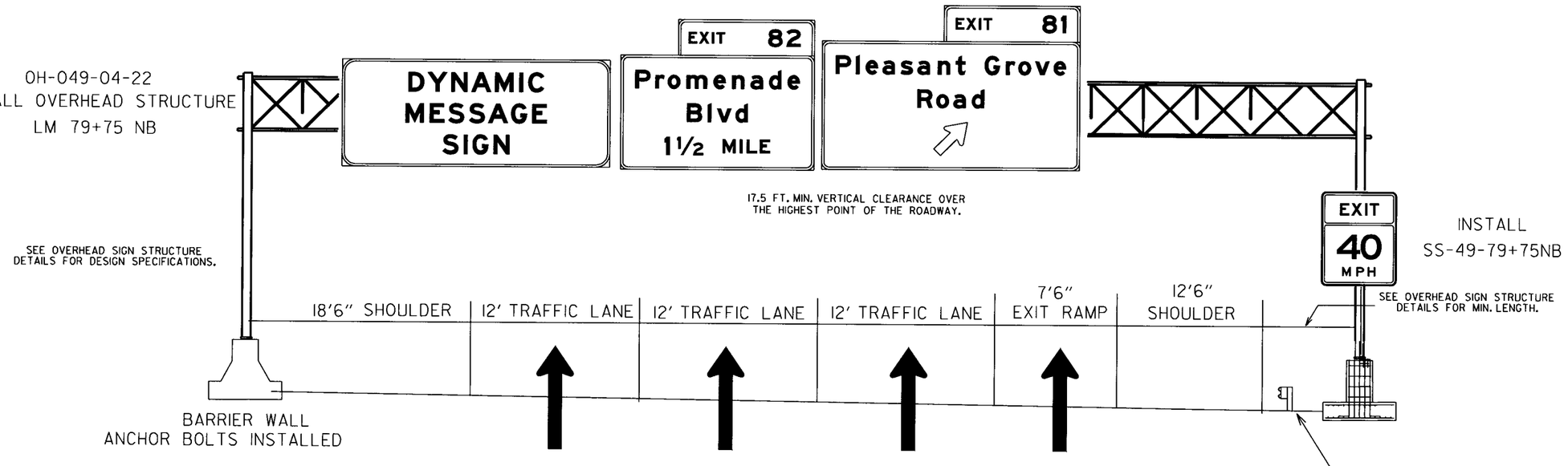
SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID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

BARRIER MOUNTED MESSAGE BOARDS SHALL HAVE SERVICE CABINETS LOCATED ON THE OUTSIDE OVERHEAD STRUCTURE SUPPORT AS DIRECTED BY ENGINEER.

(B) INSTALL

(A) INSTALL

OH-049-04-22
INSTALL OVERHEAD STRUCTURE
LM 79+75 NB



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

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR MIN. LENGTH.

INSTALL
SS-49-79+75NB

BARRIER WALL
ANCHOR BOLTS INSTALLED

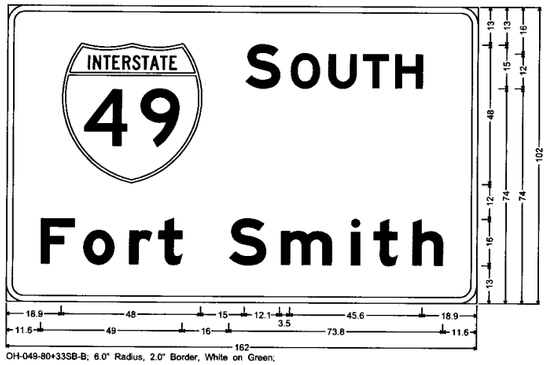
INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-10
JOSEPH A. SARTIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		01225	143	194

② SIGN LAYOUT SHEET

OH-049-04-23



OH-049-80+33SB-B; 6.0" Radius, 2.0" Border, White on Green;
[S] E Mod 2K; [OUTH] E Mod 2K; [Fort Smith] E Mod 2K;

OH-049-80+33SB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [81] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Pleasant Grove] E Mod 2K; [Road] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;

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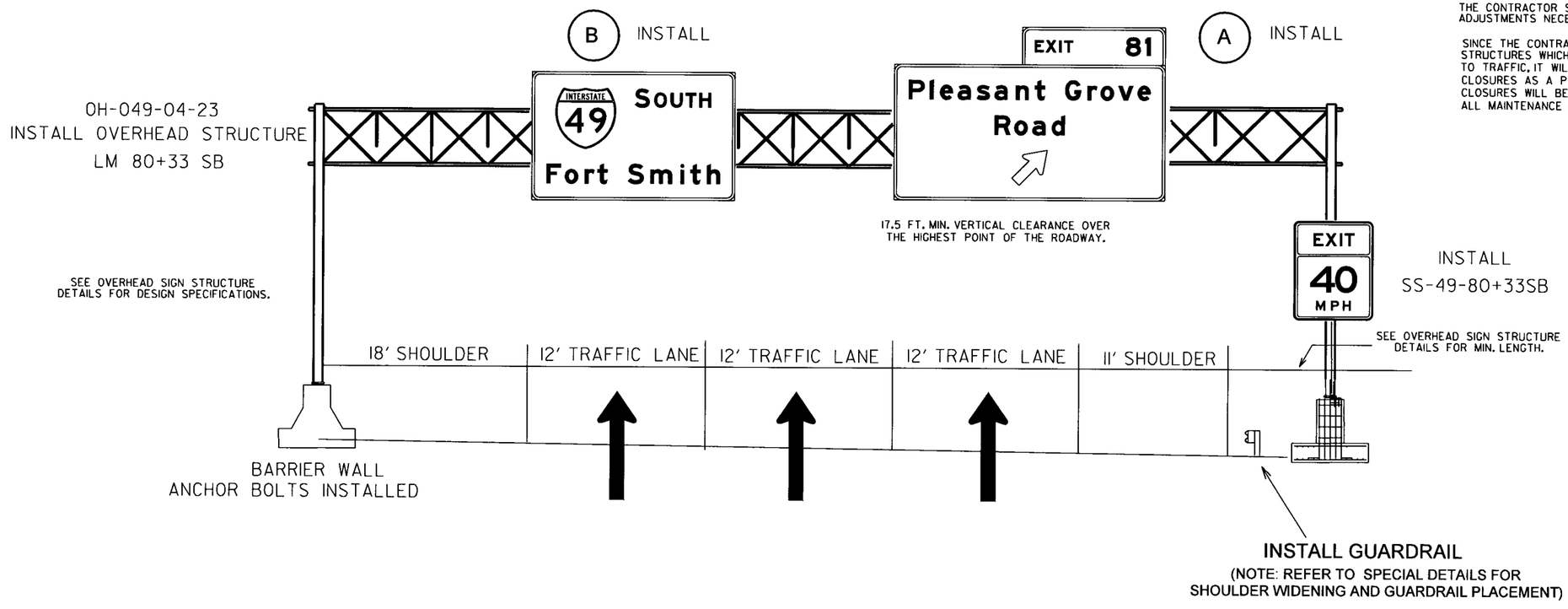
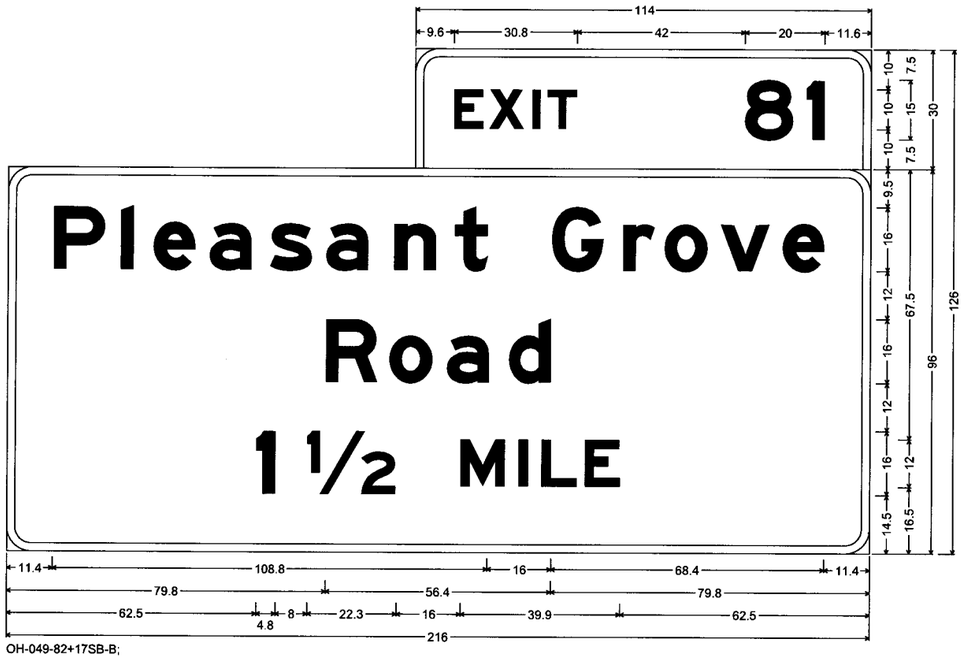


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTELL
1-12-18

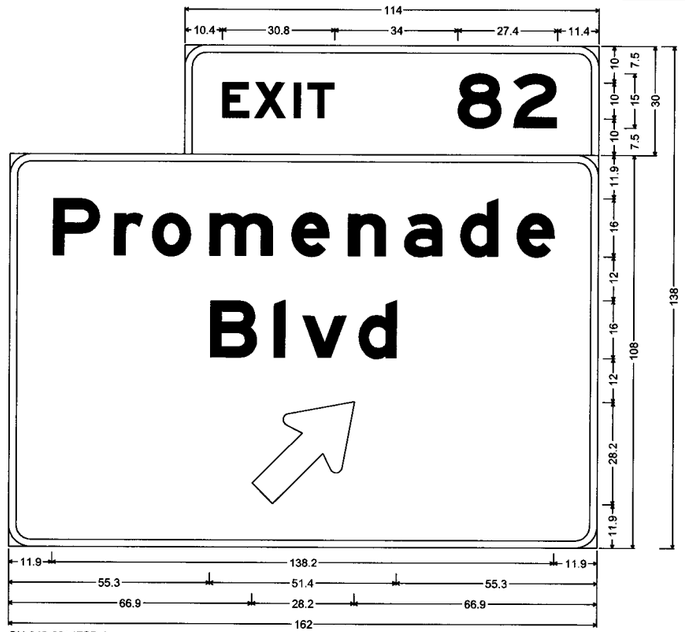
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		0225	144	194

② SIGN LAYOUT SHEET

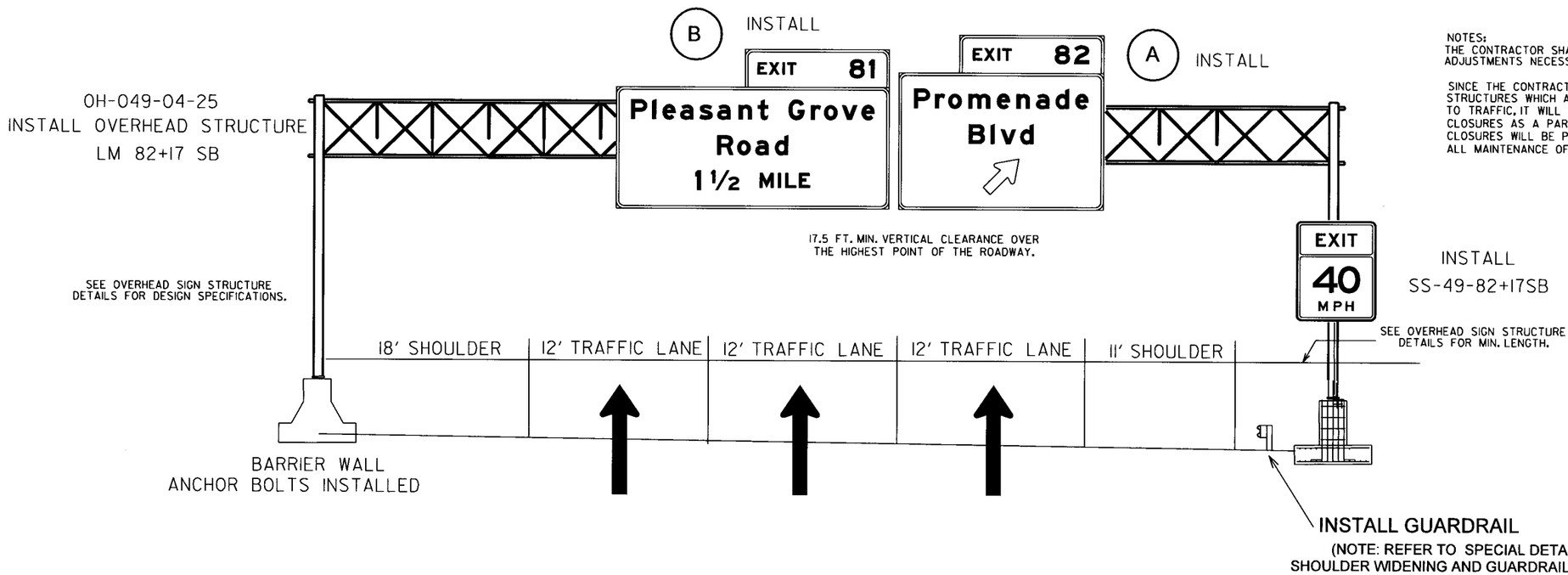
OH-049-04-25



OH-049-82+17SB-B;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [81] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Pleasant Grove] E Mod 2K; [Road] E Mod 2K; [1] E Mod 2K; [½] E Mod 2K; [MILE] E Mod 2K;



OH-049-82+17SB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [82] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Promenade] E Mod 2K; [Blvd] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;



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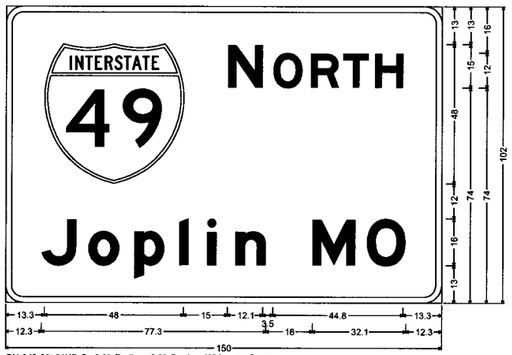
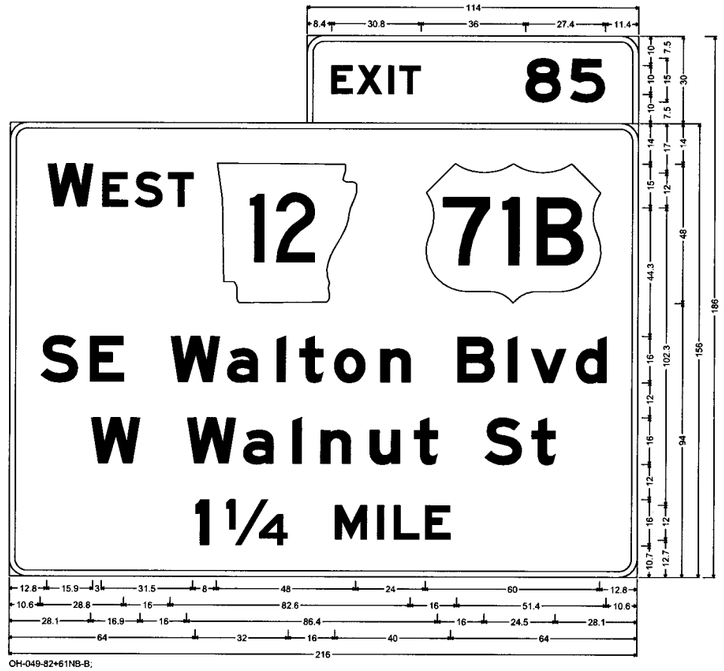
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		002215	145	194

② SIGN LAYOUT SHEET

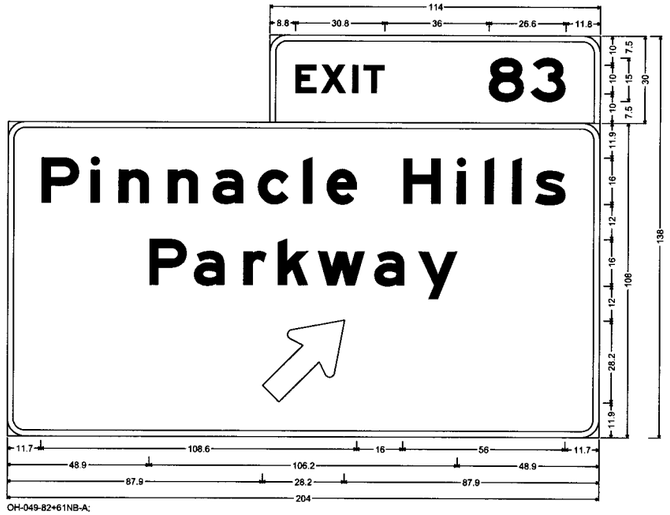
OH-049-04-26



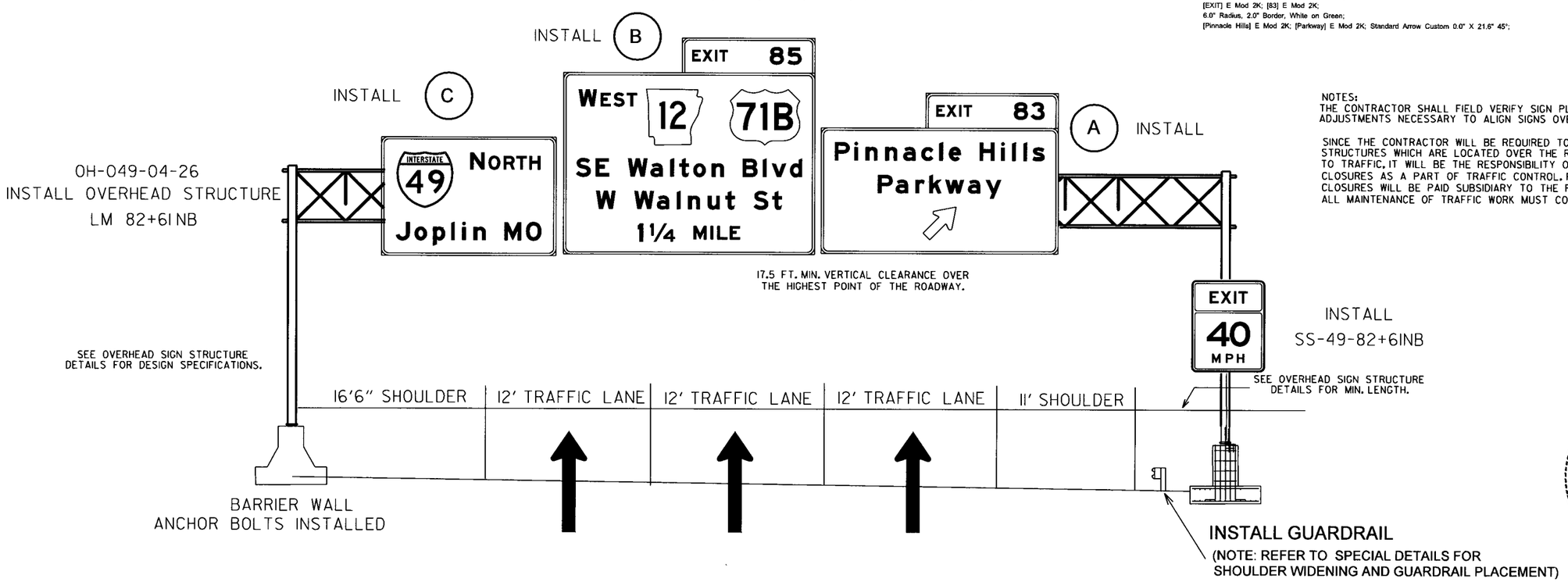
OH-049-82+61NB-C; 6.0" Radius, 2.0" Border, White on Green;
[N] E Mod 2K; [ORTH] E Mod 2K; [Joplin MO] E Mod 2K;



OH-049-82+61NB-B;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [85] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[W] E Mod 2K; [EST] E Mod 2K; [SE Walton Blvd] E Mod 2K; [W Walnut St] E Mod 2K; [1¼] E Mod 2K; [MILE] E Mod 2K;



OH-049-82+61NB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [83] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Pinnacle Hills] E Mod 2K; [Parkway] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;



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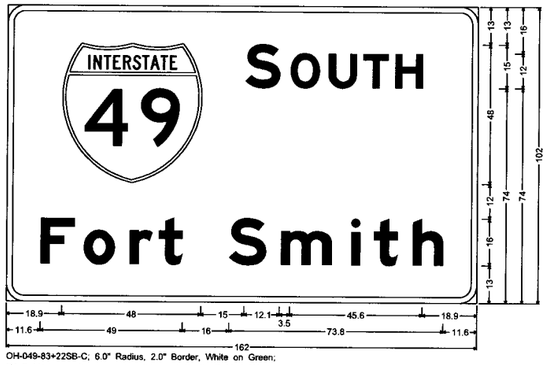
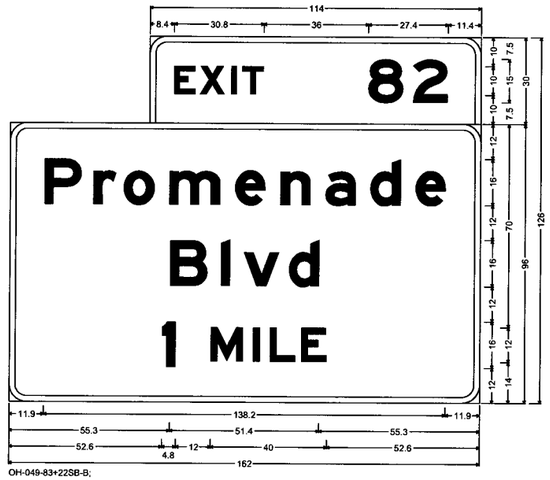
				6	ARK.			
				JOB NO.		0225	146	194

② SIGN LAYOUT SHEET

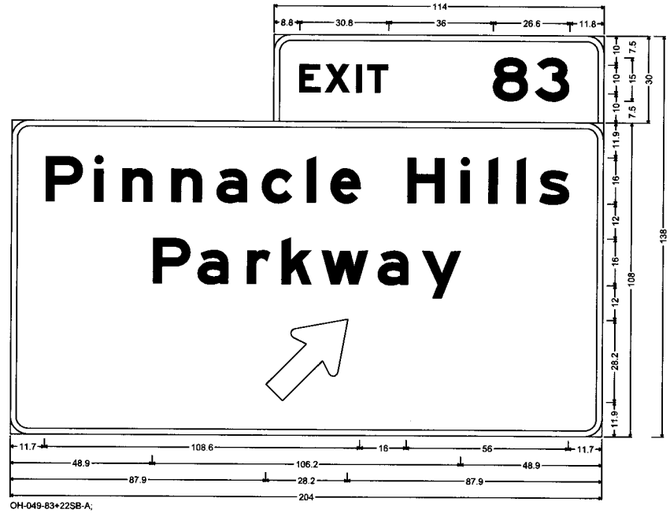
OH-049-04-27



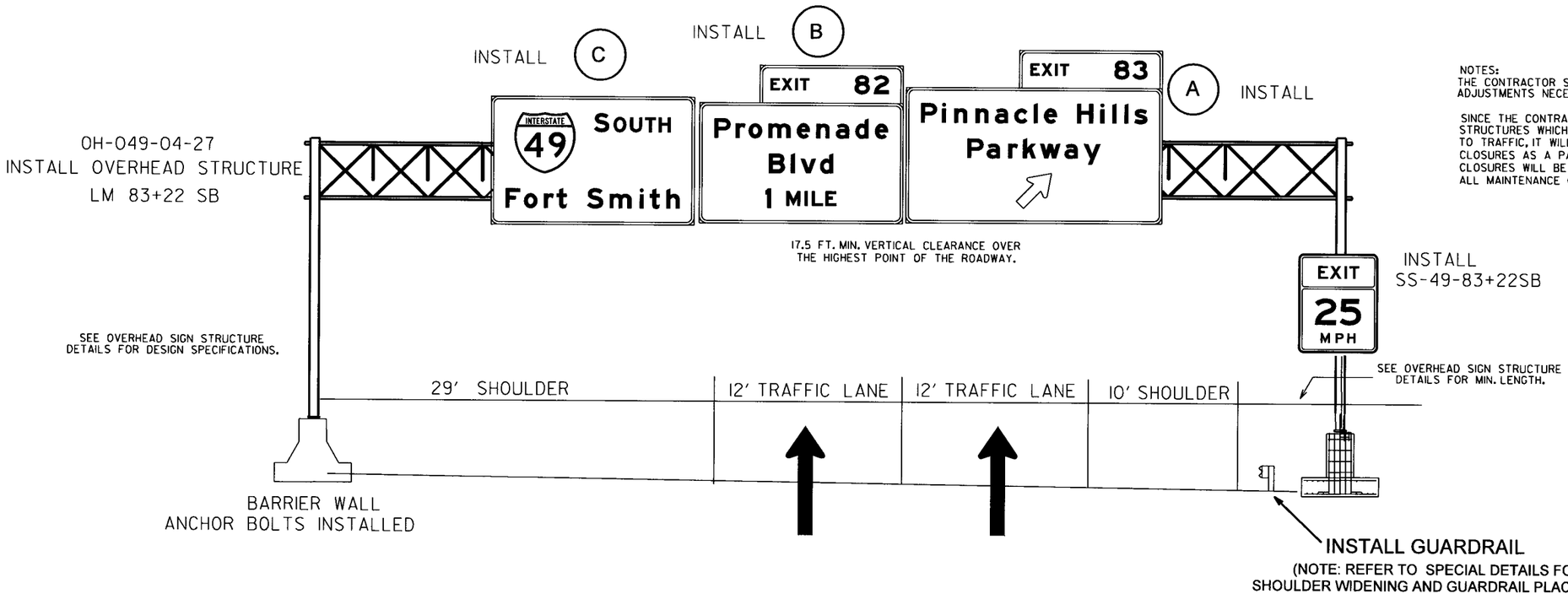
OH-049-83+22SB-C; 6.0" Radius, 2.0" Border, White on Green;
[S] E Mod 2K; [OUTH] E Mod 2K; [Fort Smith] E Mod 2K;



OH-049-83+22SB-B;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [82] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Promenade] E Mod 2K; [Blvd] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;



OH-049-83+22SB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [83] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Pinnacle Hills] E Mod 2K; [Parkway] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;



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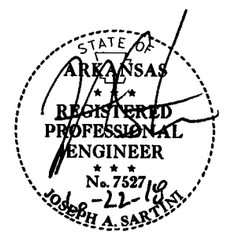


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	147	195

SIGN LAYOUT SHEET

OH-049-04-28
MOVED TO
BB0903

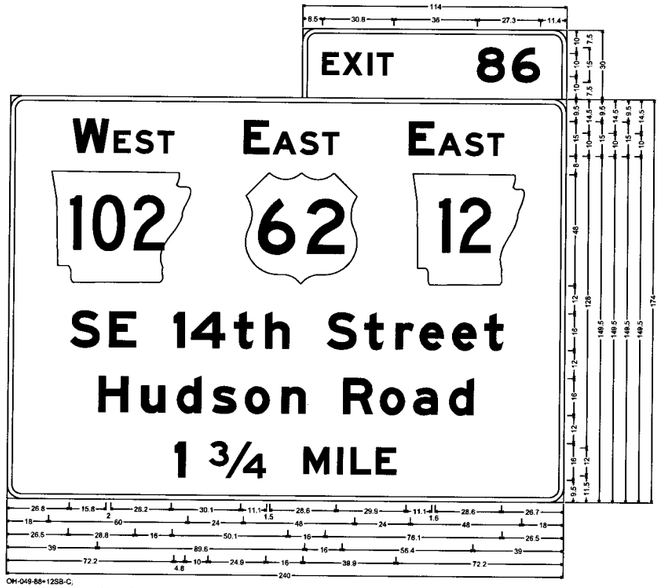
OH-049-04-28

THIS OVERHEAD STRUCTURE DELETED FROM 012215

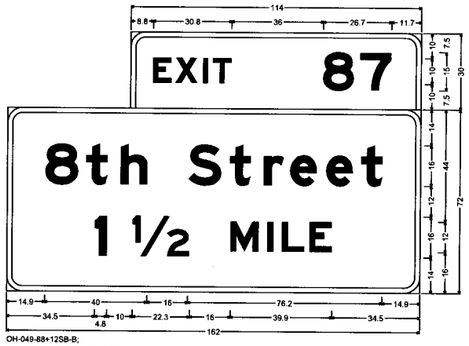
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		01225	148	194

② SIGN LAYOUT SHEET

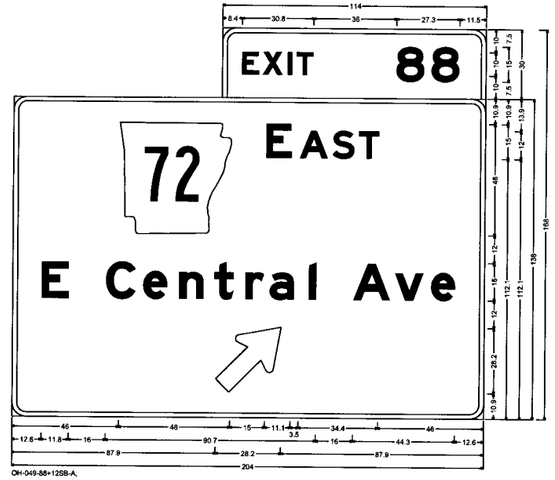
OH-049-04-29



OH-049-88+12SB-C;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [86] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[W] E Mod 2K; [EST] E Mod 2K; [G] E Mod 2K; [AST] E Mod 2K; [S] E Mod 2K; [AST] E Mod 2K; [SE 14th Street] E Mod 2K;
[Hudson Road] E Mod 2K; [1] E Mod 2K; [1¾] E Mod 2K; [MILE] E Mod 2K;



OH-049-88+12SB-B;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [87] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[8th Street] E Mod 2K; [1] E Mod 2K; [1/2] E Mod 2K; [MILE] E Mod 2K;



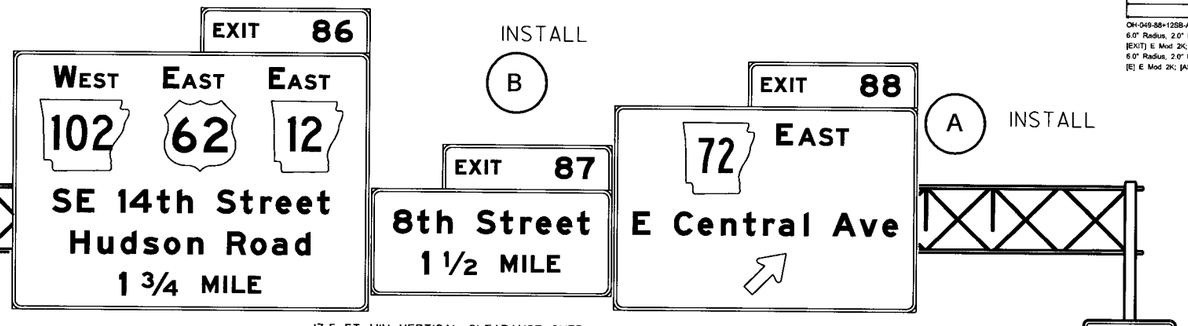
OH-049-88+12SB-A;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [88] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[E] E Mod 2K; [AST] E Mod 2K; [E Central Ave] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;

OH-049-04-29
INSTALL OVERHEAD STRUCTURE
LM 88+12 SB

INSTALL C

INSTALL B

INSTALL A

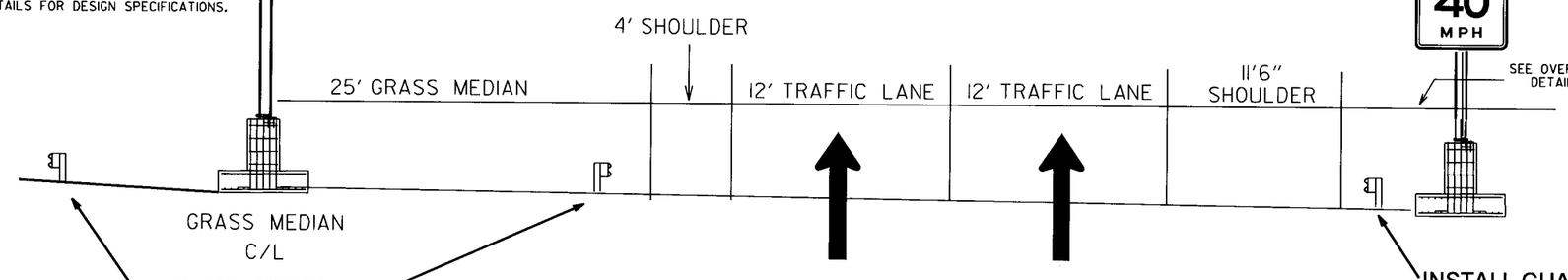


17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

INSTALL SS-49-88+12NB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR MIN. LENGTH.

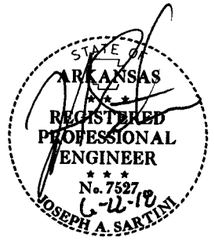


INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

INSTALL GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

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

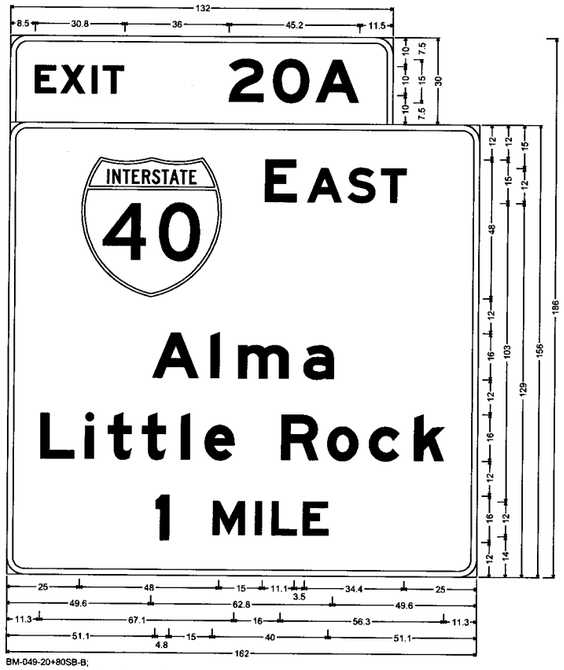
SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID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



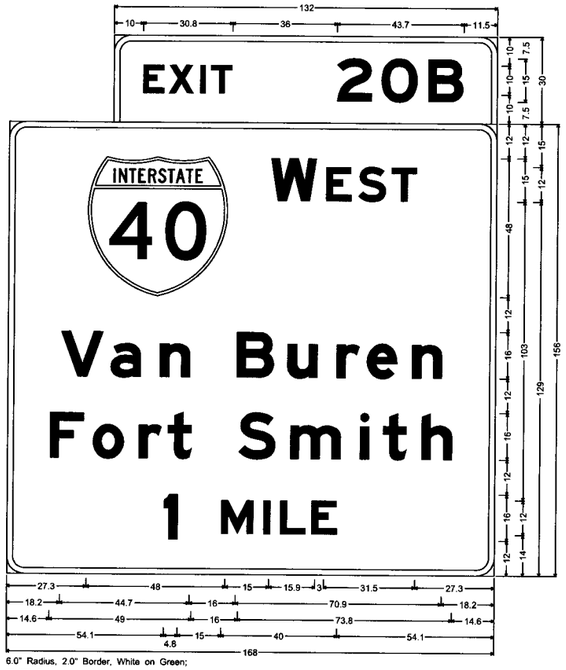
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	149	194

② SIGN LAYOUT SHEET

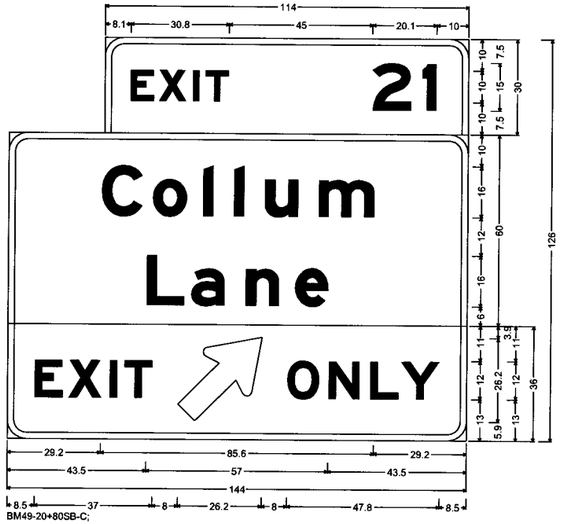
BM-540-17-08 /
BM-049-17-03



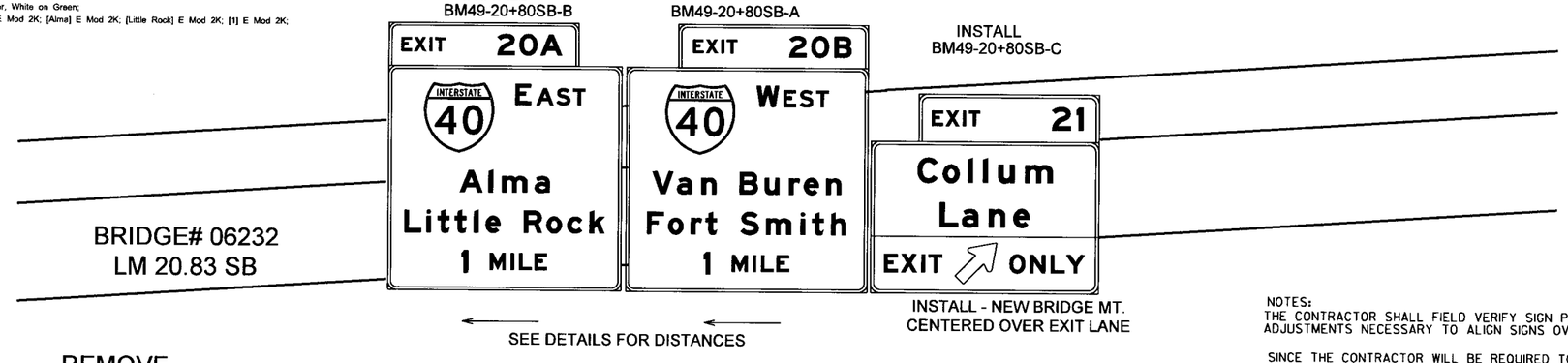
BM-049-20+80SB-B;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [20A] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[E] E Mod 2K; [AST] E Mod 2K; [Alma] E Mod 2K; [Little Rock] E Mod 2K; [1] E Mod 2K;
[MILE] E Mod 2K;



6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [20B] E Mod 2K;
BM-049-20+80SB-A; 6.0" Radius, 2.0" Border, White on Green;
[W] E Mod 2K; [EST] E Mod 2K; [Van Buren] E Mod 2K; [Fort Smith] E Mod 2K; [1] E Mod 2K;
[MILE] E Mod 2K;



BM49-20+80SB-C;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [21] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Collum] E Mod 2K; [Lane] E Mod 2K;
6.0" Radius, 2.0" Border, Black on Yellow;
[EXIT] E Mod 2K; Standard Arrow Custom 0.0" X 20.3" 45°; [ONLY] E Mod 2K;



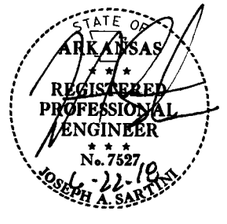
REMOVE
BM-540-17-08

INSTALL
BM-049-17-03

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.

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



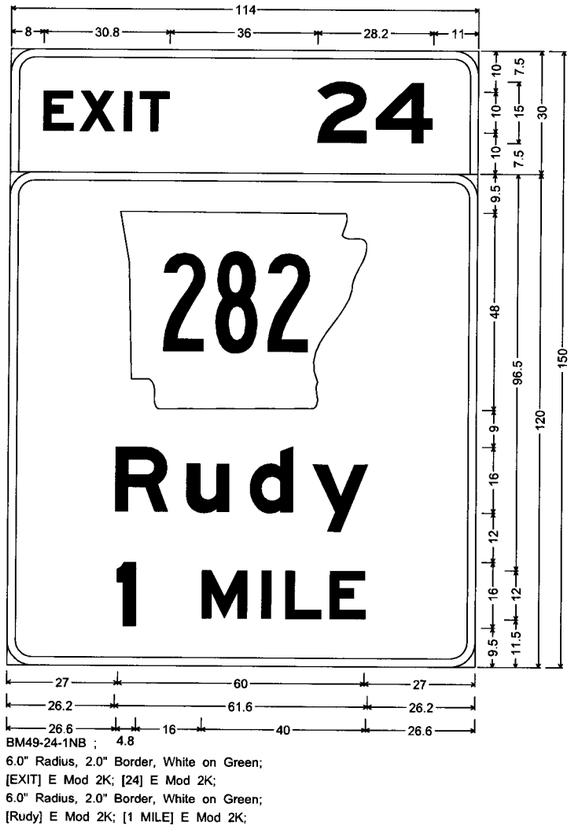
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	150	194

SIGN LAYOUT SHEET

BM-540-17-07 /
BM-049-17-04

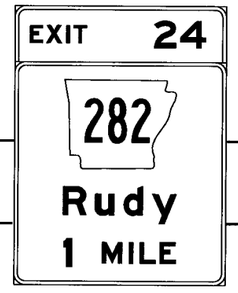
NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

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.



BM49-24-1NB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [24] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Rudy] E Mod 2K; [1 MILE] E Mod 2K;

INSTALL
BM49-24-1NB



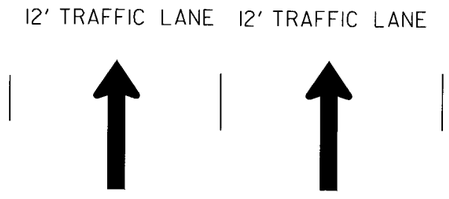
EXISTING -BRIDGE MT.

BRIDGE# 06234
LM 22.39 NB

REMOVE
BM-540-17-07

INSTALL
BM-049-17-04

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



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
4-22-18
JOSEPH A. SARTINI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	151	194

② SIGN LAYOUT SHEET

BM-049-04-20

BM49-81-1NB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [81] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Pleasant Grove] E Mod 2K; [Road] E Mod 2K; [1] E Mod 2K; [MILE] E Mod 2K;

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-049-81-1NB

BM-049-04-20
LM 78.60 NB

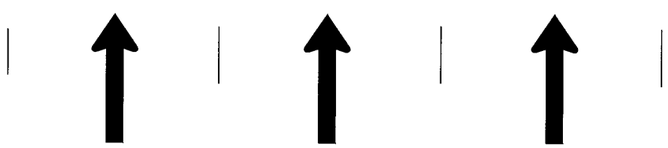
EXIT 81
Pleasant Grove
Road
1 MILE

BRIDGE #5954

INSTALL -NEW BRIDGE MT.

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

12' TRAFFIC LANE 12' TRAFFIC LANE 12' TRAFFIC LANE



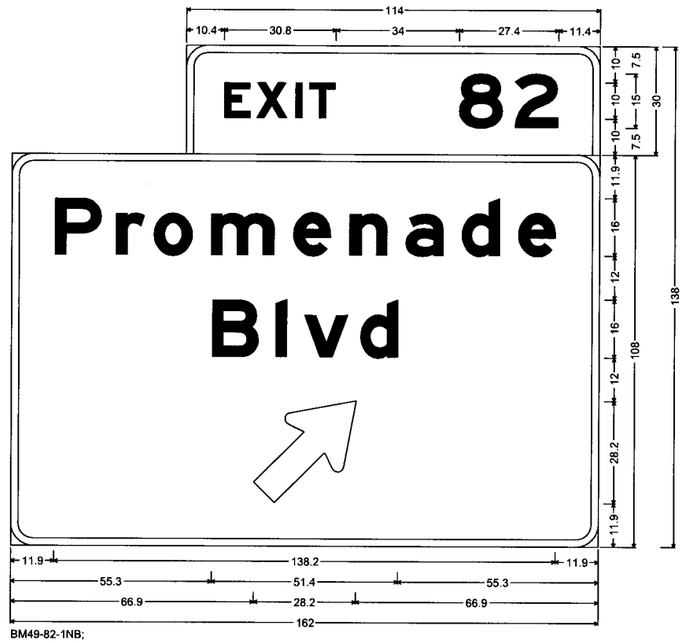
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTIN
12-22-18

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	152	194

② SIGN LAYOUT SHEET

BM-049-04-24

BM49-83-1NB ;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [83] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Pinnacle Hills] E Mod 2K; [Parkway] E Mod 2K; [1] E Mod 2K; [1/4] E Mod 2K; [MILE] E Mod 2K;



BM49-82-1NB;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [82] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[Promenade] E Mod 2K; [Blvd] E Mod 2K; Standard Arrow Custom 0.0" X 21.6" 45°;

NOTES:
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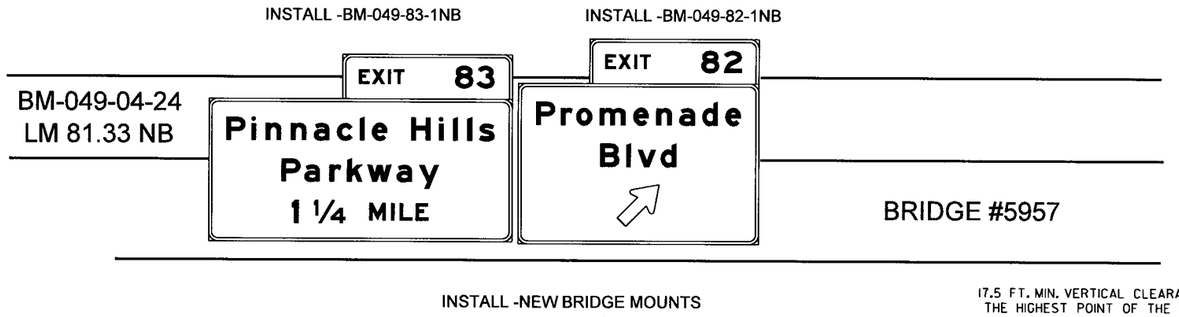
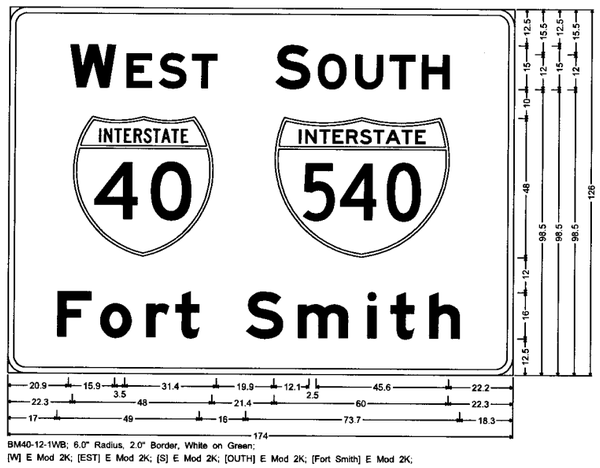


17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.

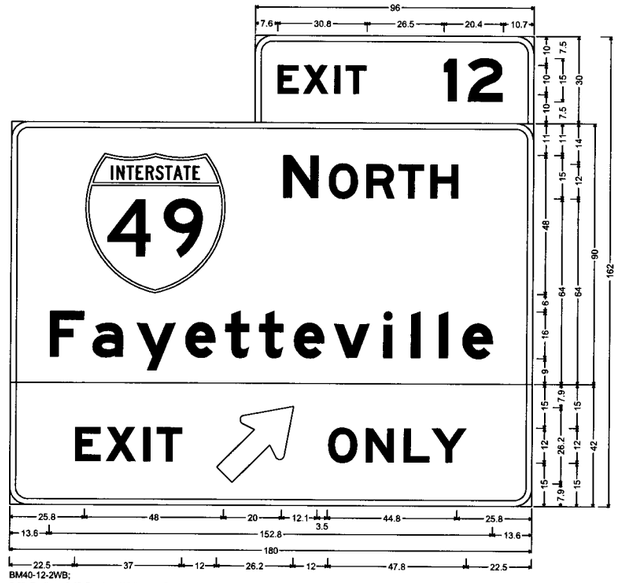
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		040225	153	194

② SIGN LAYOUT SHEET

BM-040-17-12 /
BM-040-17-24



BM40-12-1WB; 6.0" Radius, 2.0" Border, White on Green;
[W] E Mod 2K; [EST] E Mod 2K; [S] E Mod 2K; [OUTH] E Mod 2K; [Fort Smith] E Mod 2K;



BM40-12-2WB;
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E Mod 2K; [12] E Mod 2K;
6.0" Radius, 2.0" Border, White on Green;
[N] E Mod 2K; [ORTH] E Mod 2K; [Fayetteville] E Mod 2K;
6.0" Radius, 2.0" Border, Black on Yellow;
[EXIT] E Mod 2K; Standard Arrow Custom 0.0" X 20.3" 45°; [ONLY] E Mod 2K;

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

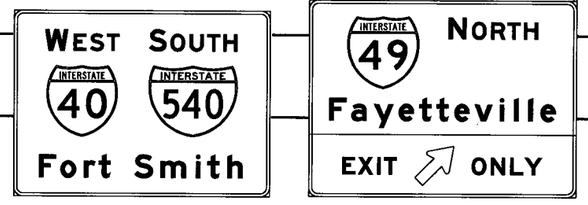
SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID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

INSTALL
BM40-12-2WB

REMOVE
BM-040-17-12

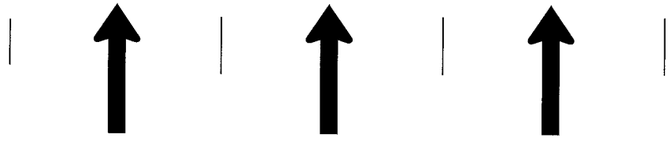
INSTALL
BM40-12-1WB

BRIDGE# 06212
LM 12.65 WB



INSTALL
BM-040-17-24

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



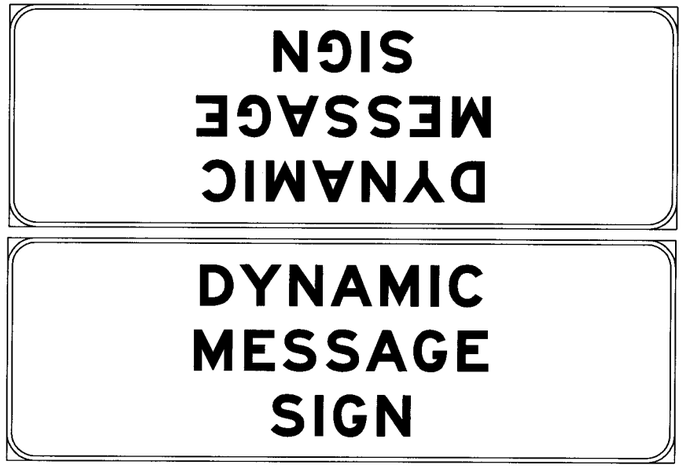
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
6-22-18

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02215	154	194

② SIGN LAYOUT SHEET

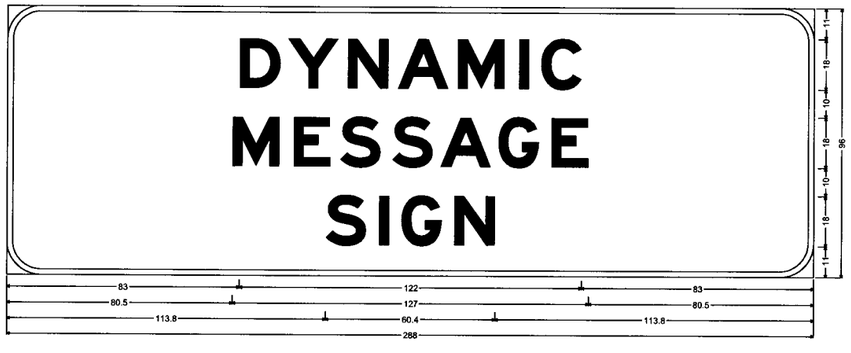
TM-049-72-19

TM-049-72-19
INSTALL OVERHEAD STRUCTURE
WITH T-MOUNTED DMS BACK/BACK
LM 68+28

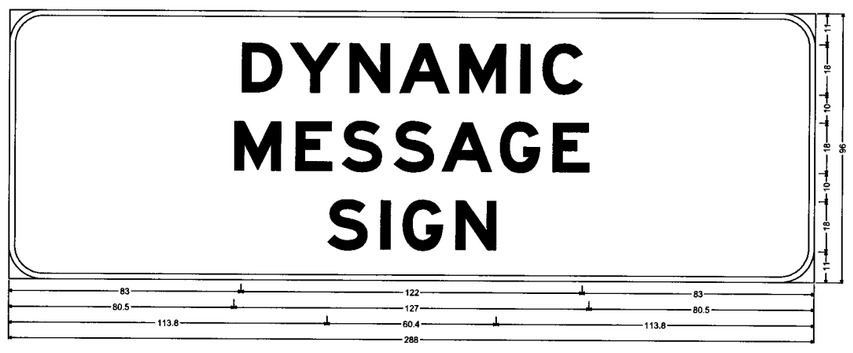


THE DYNAMIC MESSAGE SIGN ASSEMBLY WILL BE CONSIDERED INSTALLED UPON REVIEW OF THE FINAL INSTALLATION BY THE ENGINEER. AT THIS TIME A TEN DAY TEST WILL COMMENCE WHEREIN ANYTHING THAT FAILS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS REQUIREMENT SHALL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT.

BARRIER MOUNTED MESSAGE BOARDS SHALL HAVE SERVICE CABINETS LOCATED ON THE FAR EDGE OF THE ROADWAY AS DIRECTED BY ENGINEER.



TM-049-72-68+28-A



TM-049-72-68+28-B

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTIN
1-22-18

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		02225	155	196
				②	SIGN LAYOUT SHEET			

TM-049-72-12

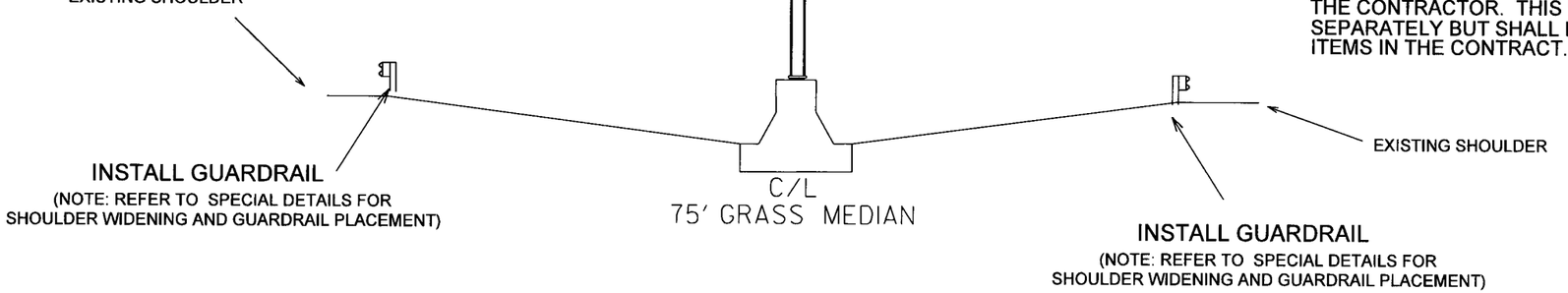
TM-049-72-12
INSTALL OVERHEAD STRUCTURE
WITH T-MOUNTED DMS
LM 59+40

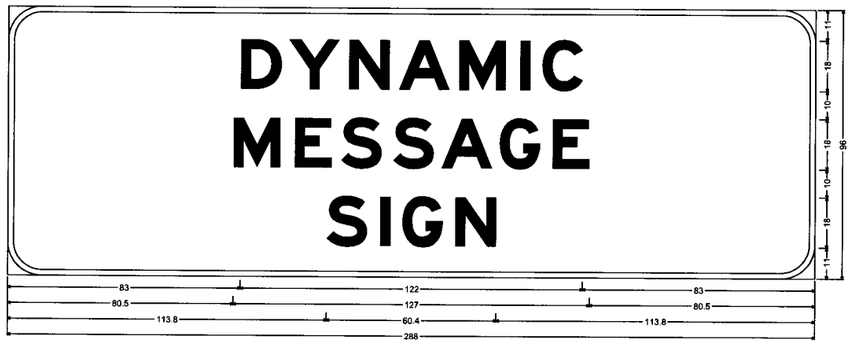
DYNAMIC MESSAGE SIGN

CLEARANCE OF NOT LESS THAT 17'6" OVER THE ENTIRE WIDTH OF THE PAVEMENT AND SHOULDERS

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

THE DYNAMIC MESSAGE SIGN ASSEMBLY WILL BE CONSIDERED INSTALLED UPON REVIEW OF THE FINAL INSTALLATION BY THE ENGINEER. AT THIS TIME A TEN DAY TEST WILL COMMENCE WHEREIN ANYTHING THAT FAILS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS REQUIREMENT SHALL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT.





TM-049-72-59+40-A

NORTH BOUND

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTI
12-12-18

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		01225	156	194
				②	SIGN LAYOUT SHEET			

TM-049-04-30

TM-049-04-30
INSTALL OVERHEAD STRUCTURE
WITH T-MOUNTED DMS BACK/BACK
LM 88+80

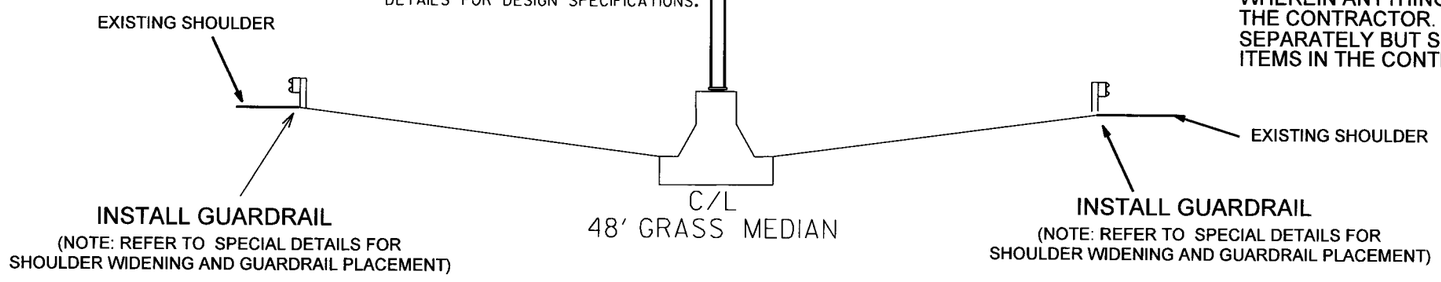
DYNAMIC MESSAGE SIGN

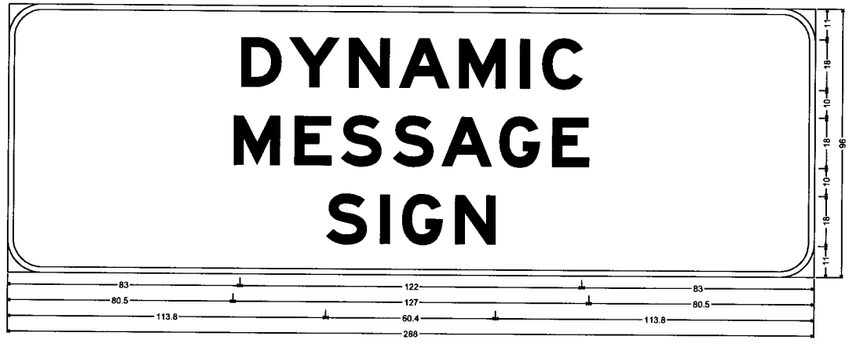
DYNAMIC MESSAGE SIGN

CLEARANCE OF NOT LESS THAT 17'6" OVER THE ENTIRE WIDTH OF THE PAVEMENT AND SHOULDERS

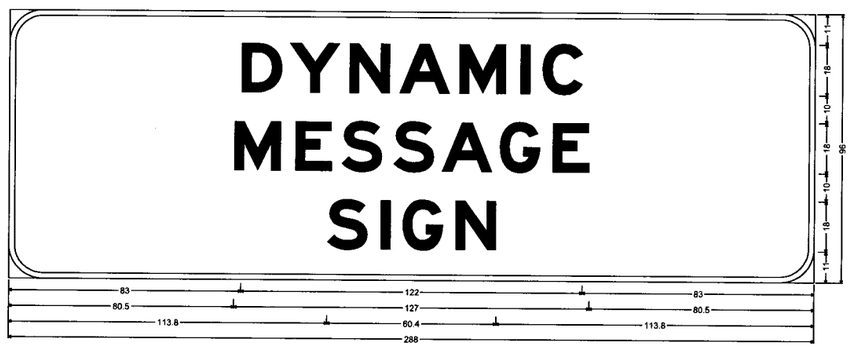
SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

THE DYNAMIC MESSAGE SIGN ASSEMBLY WILL BE CONSIDERED INSTALLED UPON REVIEW OF THE FINAL INSTALLATION BY THE ENGINEER. AT THIS TIME A TEN DAY TEST WILL COMMENCE WHEREIN ANYTHING THAT FAILS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS REQUIREMENT SHALL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT.





TM-049-04-88+80-A



TM-049-04-88+80-B

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
6-22-18
JOSEPH A. SARTANI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	157	194

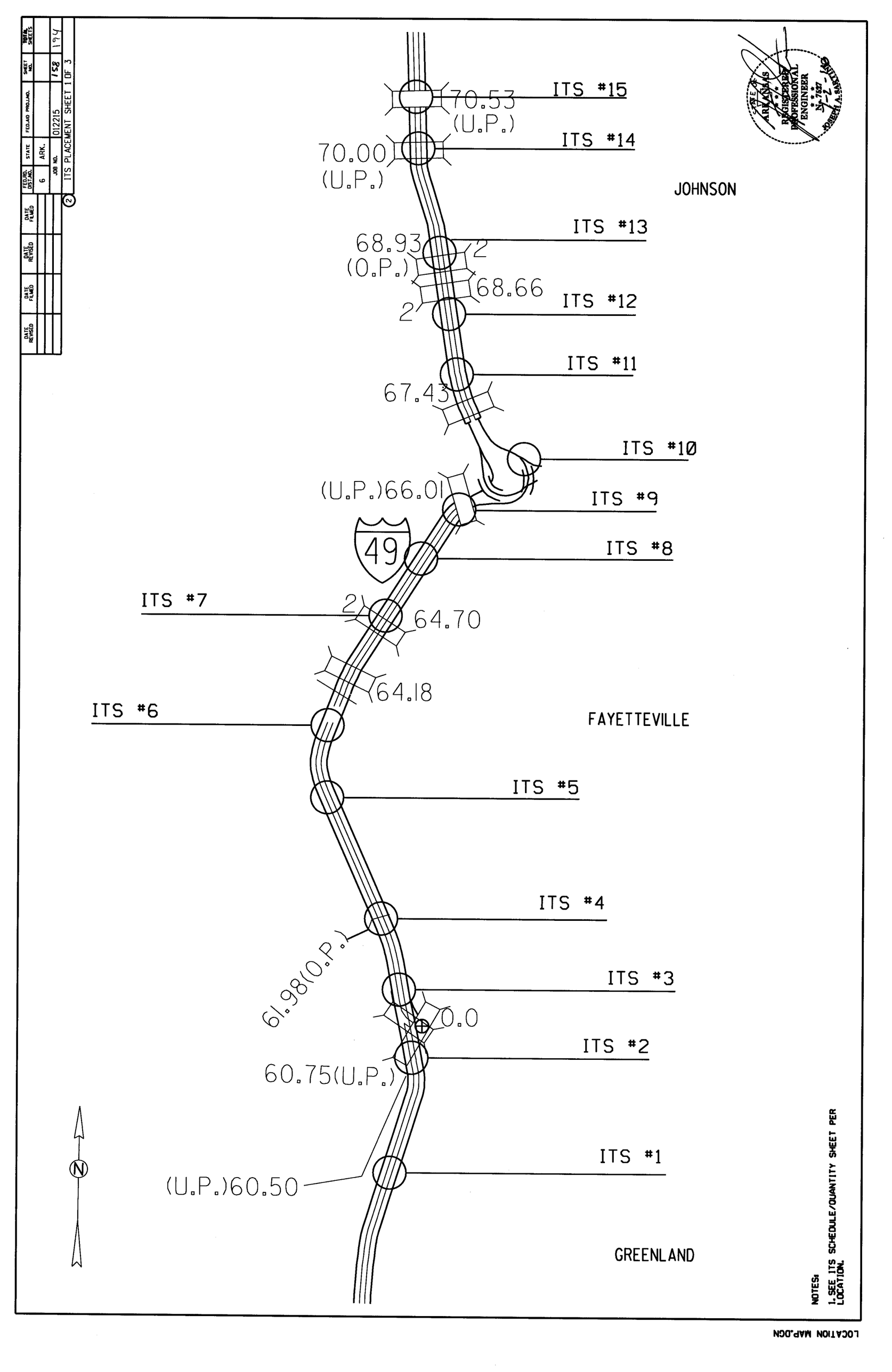
(2) ITS SCHEDULE/QUANTITY SHEET

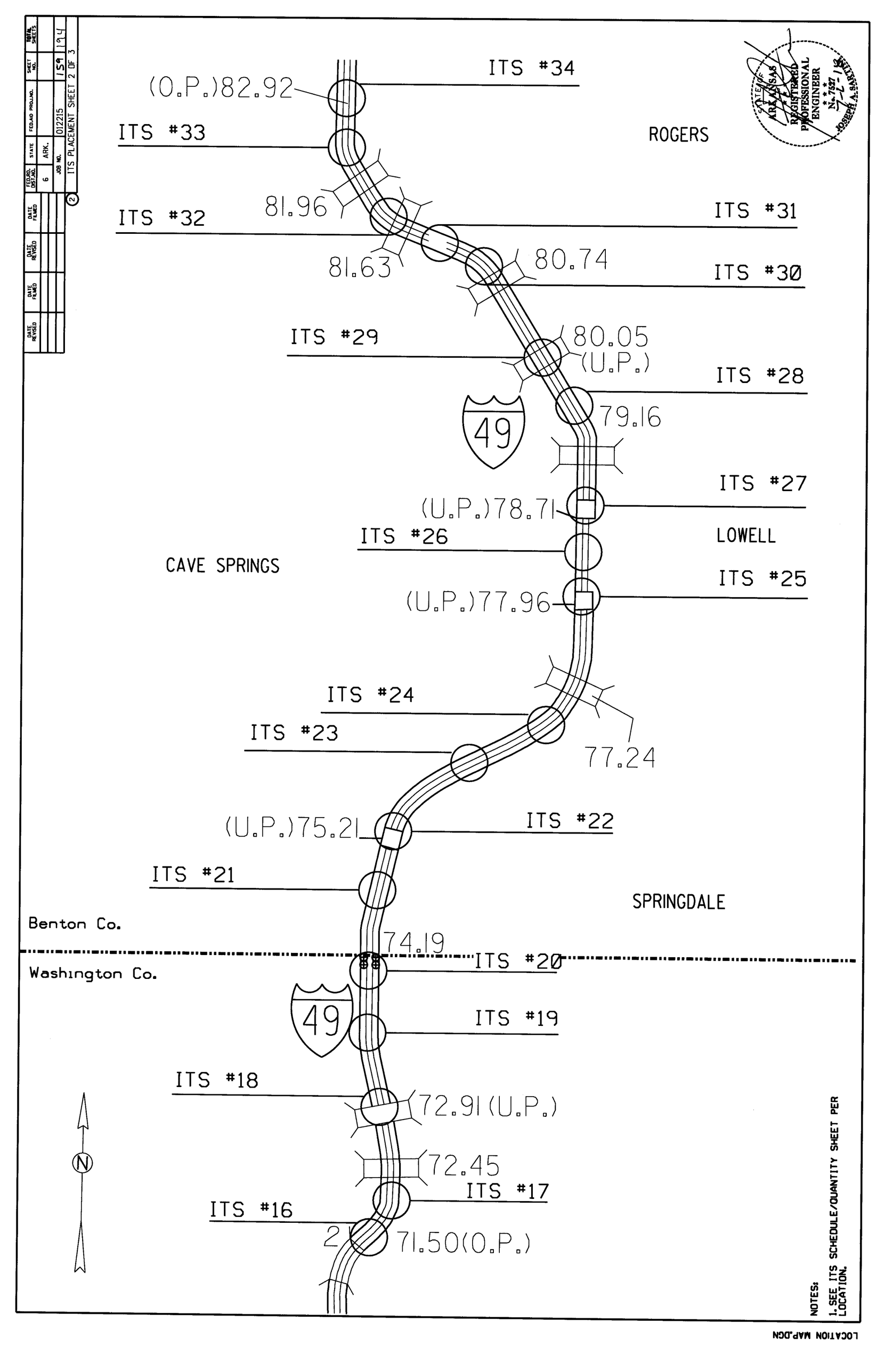
ITS LOCATION DETAILS

ITS DEVICE NUMBER & LOCATION				ITS STRUCTURE TYPE						ITS DEPLOYMENT		ITS SERVICE & DESCRIPTION	
ITS LOCATION NO.	LOG MILE	LATITUDE	LONGITUDE	TILT-TOWER	OVERHEAD	T-MOUNT	DMS MOUNT	TRUSS TOWER	STRUCTURE HEIGHT	Camera Quantity	Radio Quantity	ELECTRICAL SERVICE	LOCATION DESCRIPTION
1	59.496	36.018164°	-94.191394°			x	x		25'	1	1	UTILITY	T-MOUNT STRUCTURE CENTERED IN THE MEDIAN. PROPOSED POWER TO THE WEST AROUND CELL TOWER.
2	60.781	36.036332°	-94.188183°	x					40'	2	2	SOLAR	PROPOSED SOUTHEAST MEDIAN OF THE RAZORBACK ROAD OVERPASS.
3	61.37	36.044937°	-94.190293°					x	80'	1	2	UTILITY	POWER AVAILABLE AT REGENERATION HUT.
4	61.966	36.053372°	-94.194093°	x					40'	1	2	UTILITY	SOUTH EAST QUADRANT. PROPOSED EXISTING POWER DIRECTLY ACROSS FUTRALL DRIVE.
5	63.164	36.069065°	-94.203081°	x					40'	1	2	UTILITY	SOUTH OF TECHNOLOGY WAY. PROPOSED POWER JUST NORTH OF SITE.
6	63.794	36.077786°	-94.201456°					x	80'	2	3	UTILITY	SOUTHWEST QUADRANT OF OVERPASS. PROPOSED POWER, ACROSS N SHILOH DR. IN FRONT OF HOLIDAY INN.
7	64.852	36.091132°	-94.192386°	x					40'	2	2	UTILITY	NORTHWEST QUADRANT OF PORTER ROAD OVERPASS. PROPOSED POWER, ACROSS HENSBEST DRIVE AND PORTER RD.
8	65.314	36.097171°	-94.187543°	x					40'	1	3	UTILITY	SOUTH BOUND SIDE IN MEDIAN. PROPOSED POWER AT THE TRACTOR DEALERSHIP.
9	66.034	36.106174°	-94.180084°	x					40'	2	3	UTILITY	SOUTHBOUND SIDE OF THE INTERSTATE, IN THE MEDIAN TO THE WEST. PROPOSED POWER AT SERVICE POINT TO THE NORTH TOWARD SAM'S CLUB.
10	66.745	36.109962°	-94.169567°	x					40'	3	3	SOLAR	NORTH BOUND SIDE OF OVERPASS JUST AFTER BRIDGE. LOOKS LIKE THERE MAY BE UTILITY, EAST OF SITE.
11	67.738	36.121214°	-94.178803°					x	90'	2	6	UTILITY	NB SIDE OF INTERSTATE. PROPOSED POWER TO THE EAST NEXT TO CELL TOWER.
12	68.365	36.128580°	-94.181060°			x	x		25'	1	2	UTILITY	T-MOUNT STRUCTURE CENTERED IN THE MEDIAN. PROPOSED POWER TO THE WEST OF THE SITE.
13	68.995	36.138756°	-94.182589°	x					40'	1	1	UTILITY	TILT-TOWER. NORTHEAST MEDIAN QUADRANT OF OVERPASS. PROPOSED POWER TO THE EAST.
14	70.09	36.153145°	-94.187111°					x	80'	2	3	UTILITY	MONOPOLE. SITE LOCATED SOUTHWEST QUADRANT. POWER JUST NEAR TO THE WEST.
15	70.537	36.161030°	-94.186120°	x					40'	1	2	UTILITY	TILT TOWER. POWER SHOULD BE AVAILABLE TO THE EAST.
16	71.511	36.175029°	-94.186528°	x					40'	1	2	UTILITY	TILT TOWER. POWER SHOULD BE AVAILABLE TO THE WEST.
17	72.262	36.183209°	-94.178376°	x					40'	1	2	UTILITY	TILT TOWER. SOUTH SIDE OF HP BUILDING. POWER AVAILABLE AT THE INSPECTION STATION.
18	72.951	36.193806°	-94.179505°					x	90'	1	2	UTILITY	MONOPOLE. NORTHEAST QUADRANT OF OVERPASS. PROPOSED POWER TO THE EAST OF MONOPOLE SITE.
19	73.537	36.201937°	-94.182394°	x					40'	1	2	UTILITY	TILT-TOWER. SOUTHBOUND SIDE OF INTERSTATE. PROPOSED POWER DIRECTLY TO THE WEST OF SITE FROM LOCAL NEIGHBORHOOD.
20	74.05	36.209649°	-94.182248°		x		x		25'	1	2	UTILITY	NEW SB DMS BOARD. ADDING 2 RADIOS AND CAMERA TO OH STRUCTURE. PROPOSED POWER TO THE NORTHWEST OF SITE.
21	74.839	36.221157°	-94.180265°		x		x		25'	0	2	SOLAR	ADD 2 RADIOS.
22	75.226	36.226722°	-94.179326°					x	80'	2	3	UTILITY	MONOPOLE. NORTHWEST MEDIAN OF OVERPASS. PROPOSED POWER JUST WEST OF SITE.
23	76.021	36.233753°	-94.170592°	x					40'	2	2	UTILITY	TILT TOWER, POWER AVAILABLE TO THE NORTH.
24	76.834	36.240481°	-94.157476°					x	60'	3	3	UTILITY	MONOPOLE. SITE LOCATION IS ON SB SIDE JUST NORTH OF BURRELL PL ON TOP OF HILL. POWER IS NORTH OF THE SITE LOCATION.
25	77.994	36.254560°	-94.149916°	x					40'	2	2	UTILITY	TILT-TOWER. NORTHEAST MEDIAN QUADRANT. POWER IS TO THE EAST.
26	78.311	36.259478°	-94.150470°		x		x		25'	0	2	SOLAR	ADD 2 RADIOS. POWER EXISTS HERE ALREADY.
27	78.732	36.265409°	-94.149642°	x					40'	1	2	UTILITY	TILT-TOWER. NORTH EAST QUADRANT OF OVERPASS. POWER SHOULD BE AVAILABLE TO THE EAST.
28	79.692	36.278914°	-94.153356°		x		x		25'	0	2	UTILITY	NEW NB DMS BOARD. ADDING 2 RADIOS TO OH STRUCTURE. PROPOSED POWER TO THE SOUTH.
29	80.012	36.282671°	-94.155408°					x	80'	2	3	UTILITY	MONOPOLE. SOUTHEAST QUADRANT OF OVERPASS. POWER AVAILABLE TO THE EAST.
30	80.986	36.294743°	-94.165036°	x					40'	1	2	UTILITY	TILT-TOWER. NB SIDE OF INTERSTATE. POWER IS CLOSE BY THE SERVICE ROAD.
31	81.354	36.297497°	-94.171245°	x					40'	1	2	UTILITY	TILT-TOWER. NB SIDE OF INTERSTATE. EAST SIDE OF OVERPASS. (WITH RESPECT TO TRUE NORTH). POWER IS JUST NORTH OF OVERPASS.
32	81.852	36.299750°	-94.179759°	x					40'	1	2	UTILITY	TILT-TOWER. NW QUADRANT OF OVERPASS. POWER AVAILABLE TO THE WEST BY CHUY'S.
33	82.504	36.308508°	-94.185588°	x					40'	1	2	UTILITY	TILT-TOWER. SITE IS ON THE SB SIDE OF INTERSTATE. POWER IS JUST NORTH OF SITE.
34	82.916	36.314402°	-94.184883°	x					40'	1	2	UTILITY	TILT-TOWER. SOUTHEAST QUADRANT OF OVERPASS. POWER SHOULD BE READILY AVAILABLE FROM THE EAST.
35	84.285	36.333595°	-94.184290°					x	90'	2	3	UTILITY	MONOPOLE. SOUTH WEST QUADRANT OF OVERPASS. POWER AVAILABLE AROUND SERVER HUT IN THE SE QUADRANT OR TO THE WEST AT SIGNAL.
36	84.648	36.339197°	-94.182378°		x		x		25'	0	2	UTILITY	SB DMS OH. ABUNDANT UTILITY OPTIONS. TRANSFORMER TO THE WEST ON SB SIDE. ADDING 2 RADIOS.
37	85.871	36.356821°	-94.178660°					x	60'	2	3	UTILITY	MONOPOLE. NORTHWEST QUADRANT OF THE OVERPASS. POWER IS AVAILABLE TO THE WEST.
38	86.33	36.362989°	-94.176659°	x					40'	1	2	UTILITY	TILT-TOWER. SB SIDE OF THE INTERSTATE. SOUTH OF NEW OVERPASS. POWER SHOULD BE AVAILABLE TO THE WEST.
39	86.966	36.370757°	-94.169323°	x					40'	1	2	UTILITY	TILT-TOWER. NORTHEAST QUADRANT OF OVERPASS. POWER SHOULD BE TO THE EAST.
40	87.227	36.374694°	-94.168517°	x					40'	1	2	UTILITY	TILT-TOWER. NORTHBOUND SIDE OF THE INTERSTATE. POWER AVAILABLE AT THE FIBER REGEN HUT.
41	87.844	36.381640°	-94.174641°					x	80'	2	3	UTILITY	MONOPOLE. NB SIDE OF THE INTERSTATE BEFORE THE OVERPASS. SOUTH OF OVERPASS. POWER IS AVAILABLE TO THE NORTH EAST.
42	88.496	36.388222°	-94.183747°	x					40'	1	2	UTILITY	TILT-TOWER. SB SIDE OF THE INTERSTATE. POWER IS AVAILABLE TO THE NORTH AT TIGER BLVD.
43	88.84	36.393427°	-94.183708°			x	x		25'	1	2	UTILITY	NEW TMOUNT DOUBLE SIDED DMS. PROPOSED POWER TO THE NORTHEAST.
44	89.225	36.398734°	-94.183787°	x					40'	1	2	UTILITY	TILT-TOWER ON NB SIDE IN THE BEND OF THE ROAD. POWER NORTH WEST AT J STREET.
45	89.436	36.401347°	-94.186538°	x					40'	1	2	UTILITY	TILT-TOWER. NB SIDE OF INTERSTATE AND JUST NORTH OF THE OVERPASS. POWER IS AVAILABLE TO THE NORTH UP J STREET, AND WEST OF THE SITE.
46	90.1	36.404038°	-94.198070°	x					40'	1	2	UTILITY	TILT-TOWER. JUST EAST OF OVERPASS ON SOUTHBOUND SIDE. EXISTING POWER BY A HOUSE EAST OF THE SITE.
47	91.168	36.413175°	-94.213778°	x					40'	1	2	SOLAR	TILT-TOWER. NB SIDE OF INTERSTATE. SITE ON TOP OF ROCK WALL.
48	91.478	36.413911°	-94.222975°	x					40'	1	1	SOLAR	TILT-TOWER. SW QUADRANT OF THE BELLA VISTA BYPASS. ON TOP OF ROCK WALL.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
7-27-18
JOSEPH A. SARTINO

LOCATION MAP.DGN


ITS PLACEMENT SHEET 1 OF 3
FED.RD. DIST.NO. 6
STATE ARK.
JOB NO. 012215
FED.AID PROJ.NO.
SHEET NO. 158
TOTAL SHEETS 194
DATE FILED
DATE REVISED
DATE FILED
DATE REVISED
STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER 11-2-10 JOSEPH A. BARTLING
ITS #15
70.53
(U.P.)
ITS #14
70.00
(U.P.)
JOHNSON
ITS #13
68.93
(O.P.)
2
68.66
ITS #12
2
ITS #11
67.43
ITS #10
(U.P.)66.01
ITS #9
49
ITS #8
ITS #7
2
64.70
64.18
ITS #6
FAYETTEVILLE
ITS #5
ITS #4
61.98(O.P.)
ITS #3
0.0
ITS #2
60.75(U.P.)
ITS #1
(U.P.)60.50
GREENLAND
N
NOTES:
1. SEE ITS SCHEDULE/QUANTITY SHEET PER LOCATION.
LOCATION MAP.DGN



FED.RD. DIST.NO.	6
STATE	ARK.
FED.AID PROJ.NO.	
JOB NO.	012215
SHEET NO.	159
TOTAL SHEETS	194

ITS PLACEMENT SHEET 2 OF 3

DATE FILMED

DATE REVISED

DATE FILMED

DATE REVISED

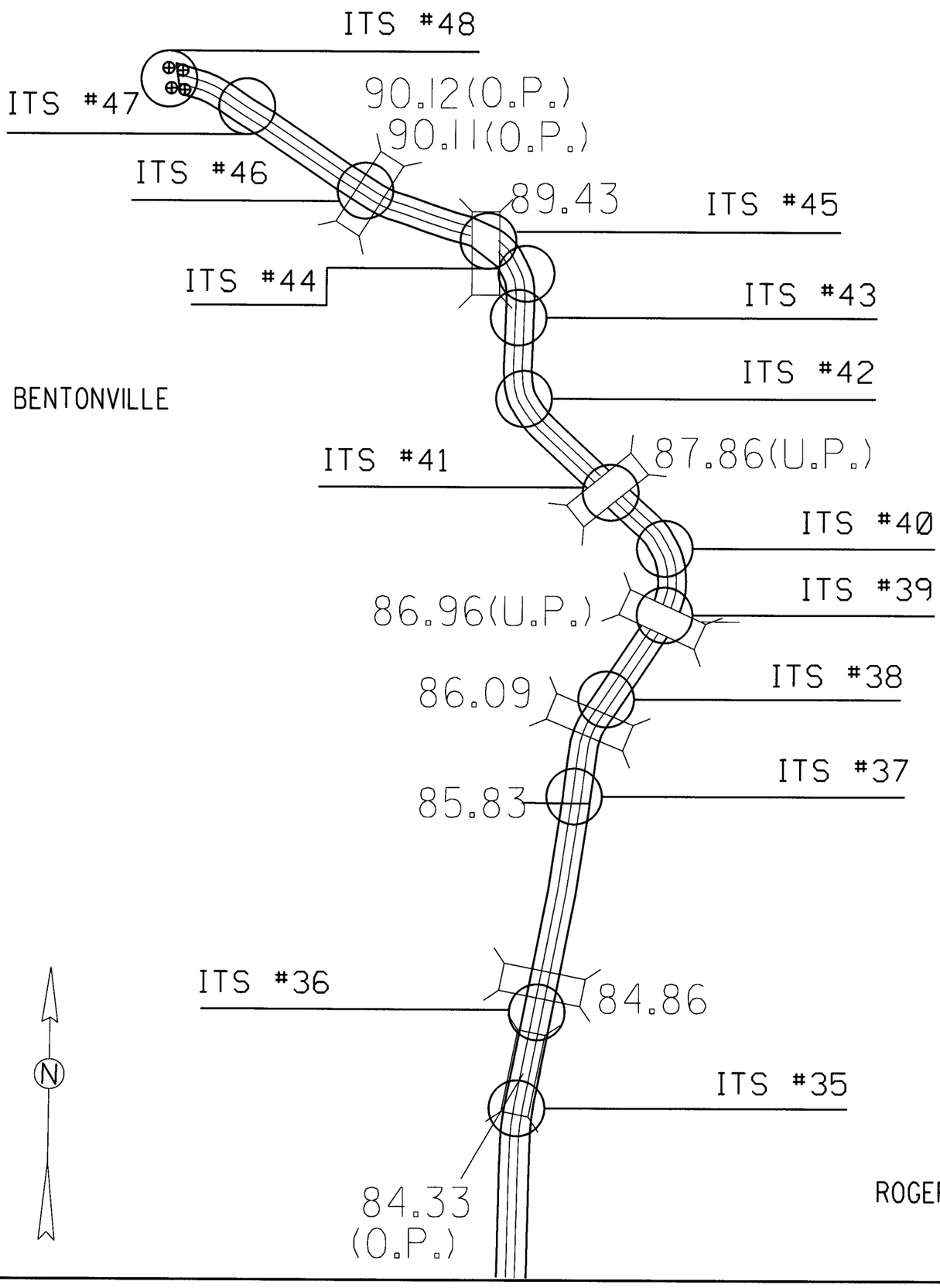
STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 7627 JOSEPH A. SANTELLI

TOTAL SHEETS	194
SHEET NO.	160
FED.AID PROJ.NO.	012215
STATE	ARK.
FED.RD. DIST.NO.	6
JOB NO.	
DATE FILMED	
DATE REVISED	
DATE FILMED	
DATE REVISED	

ITS PLACEMENT SHEET 3 OF 3 (2)

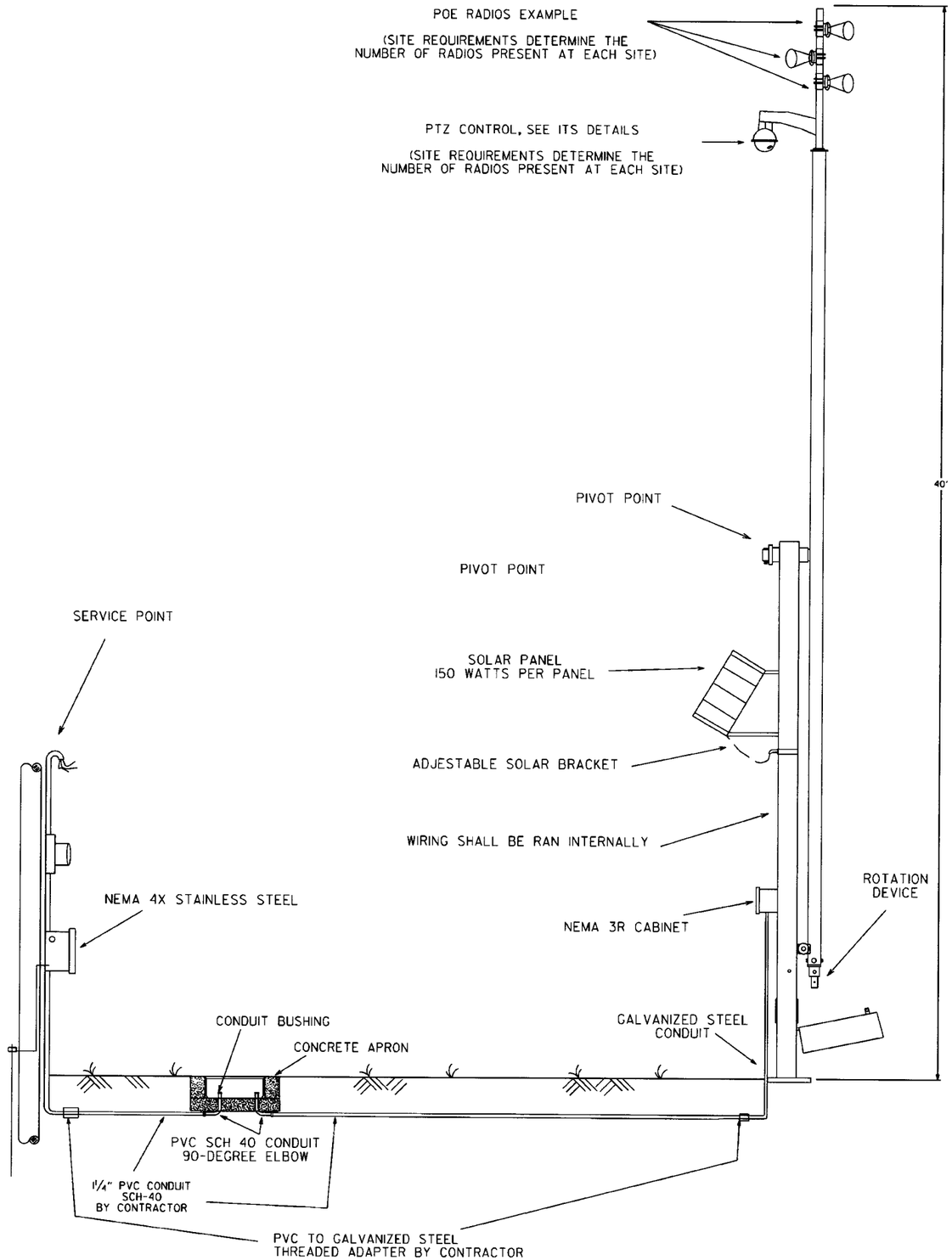
ITS SUMMARY OF QUANTITIES			
ITEM NUMBER	**ITEM**	**QUANTITY**	**UNIT**
709	GALVANIZED STEEL CONDUIT (2")	120	LIN. FT.
710	NON-METALLIC CONDUIT (1.25")	4280	LIN. FT.
SP & 711	CONCRETE PULL BOX (TYPE 2 HD)	4	EACH
SP	ANTENNA SUPPORT STRUCTURE ASSEMBLY (60')	2	EACH
SP	ANTENNA SUPPORT STRUCTURE ASSEMBLY (80')	6	EACH
SP	ANTENNA SUPPORT STRUCTURE ASSEMBLY (90')	3	EACH
SP	BATTERY BACKUP SYSTEM	48	EACH
SP	DRILLED SHAFT (30" DIAMETER)	611	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/4 A.W.G., E.G.C.)	7056	LIN. FT.
SP	INSTALLATION OF CAMERA ON STRUCTURE	61	EACH
SP	INSTALLATION OF RADIO ON STRUCTURE	108	EACH
SP	MAINTENANCE BUILDING	1.00	LUMP SUM
SP	PHOTOVOLTAIC SYSTEM	6	EACH
SP	TILT TOWER (40')	29	EACH
SP	SERVICE POINT ASSEMBLY (1 CIRCUIT)	42	EACH

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7627
JOSEPH A. SASSER
9-12-ks



NOTES:
1. SEE ITS SCHEDULE/QUANTITY SHEET PER LOCATION.

LOCATION MAP.DGN



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	161	194

(2) **DETAILS FOR TILT TOWER**

NOTES:

1. SEE STANDARD DRAWING, SD-9, AND SERVICE POINT ASSEMBLY SPECIAL PROVISION FOR OVERHEAD SERVICE POINT.

2. PULL BOX SHALL BE FLUSH WITH GROUND. SEE PULL BOX SPECIAL PROVISION AND STANDARD DRAWING, SD-6.

3. PULL BOX BETWEEN THE SERVICE POINT AND POLE IS ONLY REQUIRED IF THE SERVICE POINT IS GREATER THAN 20FT AWAY FROM POLE.

5. POE RADIOS, CAT5E, RJ45, PTZ CAMERAS WILL BE PROVIDED BY ARDOT.

6. SOLAR PANELS ONLY INSTALLED AT LOCATIONS AS INDICATED ON PLAN SHEET.

7. SEE TILT TOWER SPECIAL PROVISION FOR MORE DETAILS.

8. THE LOCATION OF TOWERS SHOWN IN THE PLANS ARE APPROXIMATE. THE FINAL LOCATION MAY BE SUBJECT TO CHANGE DUE TO CONSTRUCTION ENVIRONMENT. THE CONTRACTOR SHALL VERIFY THE FINAL LOCATION WITH THE JOB ENGINEER, AND ANY CHANGES SHALL BE APPROVED BY THE JOB ENGINEER.

9. MINIMUM STRUCTURAL REQUIREMENTS:
DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION (2001) WITH 2003 AND 2006 INTERIMS.

   USE FATIGUE CATEGORY II.

   CONSTRUCTION SPECIFICATIONS: STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION) WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

   BASE WIND SPEED: 90 MPH

   STEEL MEMBERS CONSIDERED MAIN LOAD CARRYING MEMBERS WITH A THICKNESS GREATER THAN 1/2" SHALL MEET THE LONGITUDINAL CHARPY V-NOTCH TEST SPECIFIED IN SUBSECTION 807.05 OF THE STANDARD SPECIFICATIONS.

   THE GROUND ROD SHALL BE FUSION WELDED TO A 1C/#8 A.W.G. SOLID COPPER GROUND WIRE. ATTACHMENT TO THE PRIMARY GROUND MAY BE BY AN APPROVED CLAMP. THE GROUND ROD SHALL BE SUBSIDIARY TO THE TILT TOWER/POLE.

   MOUNTING LOCATION SHALL NOT INTERFERE WITH FOLDING ARM.

10. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITIES ON THE GROUND. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY. ARKANSAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT, REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE ARKANSAS ONE-CALL SYSTEM CENTER BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF EMERGENCY). THE ONE-CALL SYSTEM PHONE NUMBER IS 1-800-482-8998. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL. NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE ARKANSAS ONE-CALL SYSTEM; THEREFORE, THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITEIES AS WELL AS THE ONE-CALL SYSTEM.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTIN
9-12-12

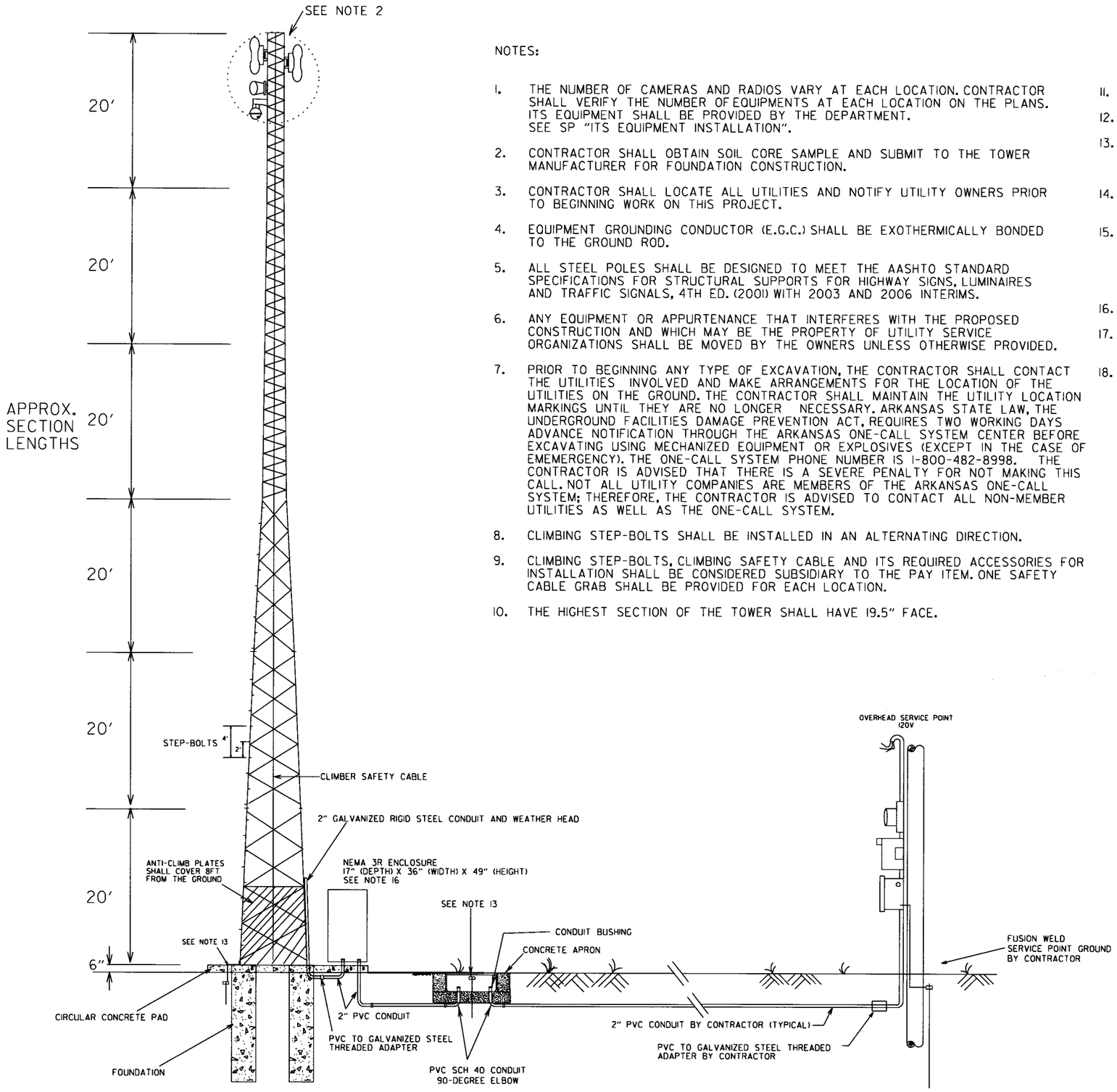
ARDOT

TILT TOWER

DETAILS N.T.S

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	162	194

(2) DETAILS FOR ANTENNA SPRT. STR. ASSEM. 001



NOTES:

1. THE NUMBER OF CAMERAS AND RADIOS VARY AT EACH LOCATION. CONTRACTOR SHALL VERIFY THE NUMBER OF EQUIPMENTS AT EACH LOCATION ON THE PLANS. ITS EQUIPMENT SHALL BE PROVIDED BY THE DEPARTMENT. SEE SP "ITS EQUIPMENT INSTALLATION".
2. CONTRACTOR SHALL OBTAIN SOIL CORE SAMPLE AND SUBMIT TO THE TOWER MANUFACTURER FOR FOUNDATION CONSTRUCTION.
3. CONTRACTOR SHALL LOCATE ALL UTILITIES AND NOTIFY UTILITY OWNERS PRIOR TO BEGINNING WORK ON THIS PROJECT.
4. EQUIPMENT GROUNDING CONDUCTOR (E.G.C.) SHALL BE EXOTHERMICALLY BONDED TO THE GROUND ROD.
5. ALL STEEL POLES SHALL BE DESIGNED TO MEET THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH ED. (2001) WITH 2003 AND 2006 INTERIMS.
6. 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.
7. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITIES ON THE GROUND. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY. ARKANSAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT, REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE ARKANSAS ONE-CALL SYSTEM CENTER BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF EMEMERGENCY). THE ONE-CALL SYSTEM PHONE NUMBER IS 1-800-482-8998. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL. NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE ARKANSAS ONE-CALL SYSTEM; THEREFORE, THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES AS WELL AS THE ONE-CALL SYSTEM.
8. CLIMBING STEP-BOLTS SHALL BE INSTALLED IN AN ALTERNATING DIRECTION.
9. CLIMBING STEP-BOLTS, CLIMBING SAFETY CABLE AND ITS REQUIRED ACCESSORIES FOR INSTALLATION SHALL BE CONSIDERED SUBSIDIARY TO THE PAY ITEM. ONE SAFETY CABLE GRAB SHALL BE PROVIDED FOR EACH LOCATION.
10. THE HIGHEST SECTION OF THE TOWER SHALL HAVE 19.5" FACE.
11. TOWER SHALL BE COMPOSED OF BE TUBULAR WELDED SECTIONS.
12. SOLID COPPER FOR GROUND SHALL BE PAINTED SILVER.
13. EGC BONDED TO GROUND LUG ON POLE, OTHER EGC CONDUCTORS, AND FUSION WELDED TO GROUND ROD. ONE GROUND ROD PER LEG. GROUND ROD SHALL BE SUBSIDIARY TO THE ANTENNA SUPPORT STRUCTURE ASSEMBLY.
14. ALL CABLES SHALL BE FOR ITS EQUIPMENT TIED TO THE ANTENNA SUPPORT STRUCTURE BY USING STACKABLE SNAP-IN HANGERS WITH RUBBER INSERTS.
15. ANTENNA SUPPORT STRUCTURE ASSEMBLY SHALL BE A STEEL, SELF-SUPPORTING, 3 OR 4 SIDED TRUSS STRUCTURE DESIGNED AND FURNISHED IN ACCORDANCE WITH THE LATEST VERSION OF ANSI/TIA.EIA-222, THE AHTD STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION, 2014 EDITION, AND JOB 012215 SPECIAL PROVISION "ANTENNA SUPPORT STRUCTURE ASSEMBLY".
16. NEMA ENCLOSURE SHALL BE PLACED 6FT FROM THE ANTENNA SUPPORT ASSEMBLY.
17. LENGTHS OF SECTIONS SHOWN ON THIS SHEET ARE APPROXIMATE. LENGTH OF TOWERS AT EACH LOCATION IS SHOWN ON THE LOCATIONS TABLE.
18. ALL METALLIC HARDWARE USED ON ANTENNA SUPPORT STRUCTURES SHALL BE HOT DIPPED GALVANIZED.

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 7527 JOSEPH A. SARTIN 9-12-18

DETAILS FOR ANTENNA SUPPORT STRUCTURE ASSEMBLY
N.T.S.
DRAWING NO. 001
SHEET 1 OF 2

I-49 ANTENNA SUPPORT STRUCTURE ASSEMBLY.DGN

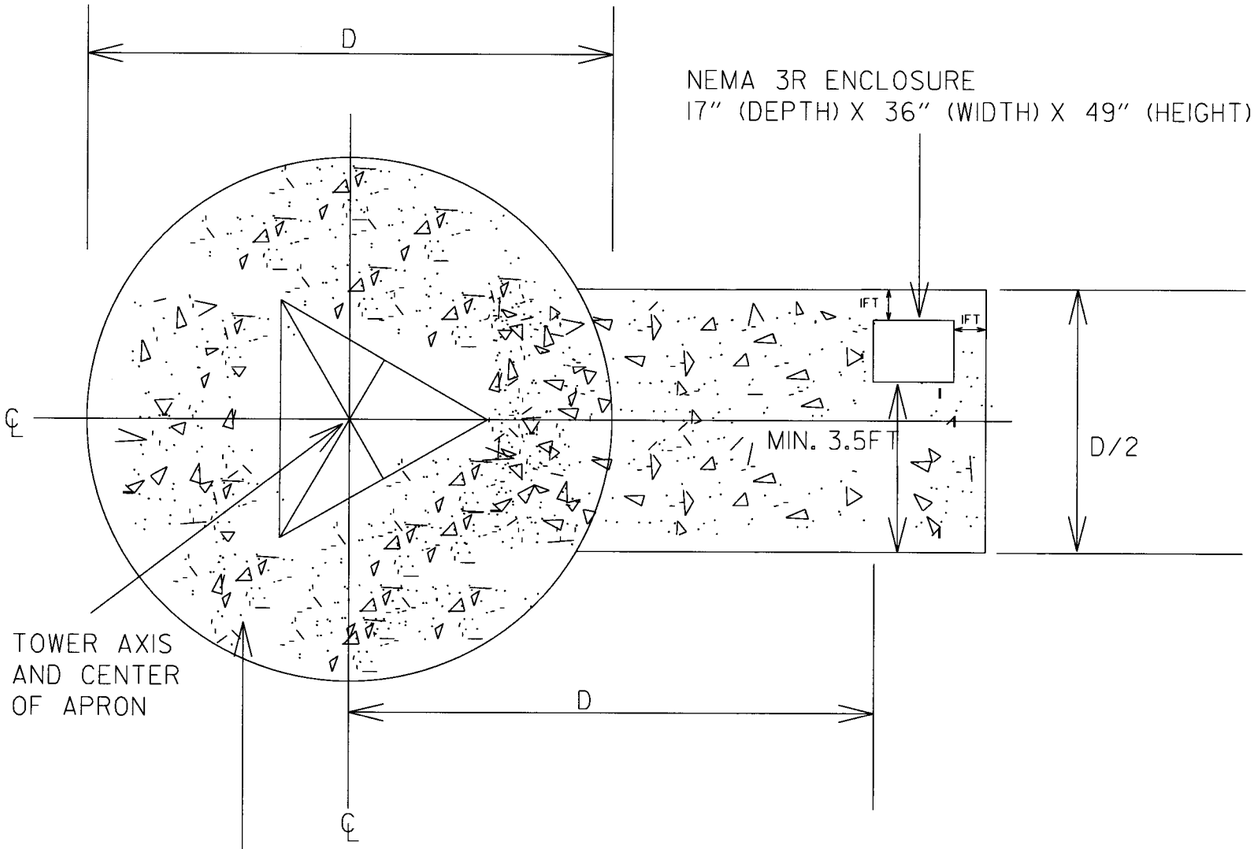
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	163	194

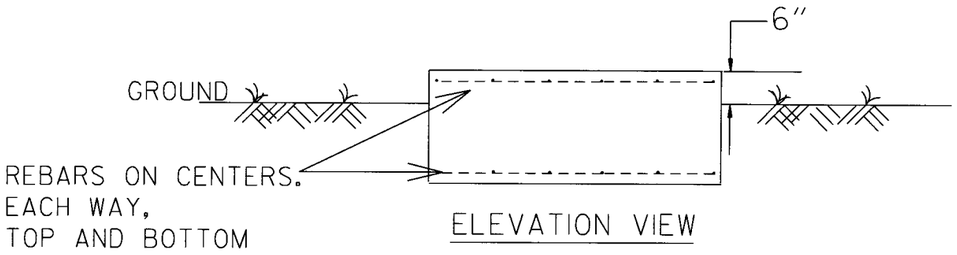
(2) DETAILS FOR ANTENNA SPRT. STR. ASSEM. 002

DETAILS OF CONCRETE APRON

FOR ANTENNA SUPPORT STRUCTURE ASSEMBLY

NOTES:
1. THE DIAMETER (D) OF CONCRETE APRON CHANGES WITH RESPECT TO THE MAX FACE SPREAD AT THE BASE OF ANTENNA SUPPORT STRUCTURE ASSEMBLY. CONSULT THE ASSEMBLY MANUFACTURER.
2. ALL REINFORCING BARS TO BE GRADE 60. FOR INFORMATION ON THE LENGTH AND SIZE OF REBARS, CONSULT THE ASSEMBLY MANUFACTURER.





ELEVATION VIEW

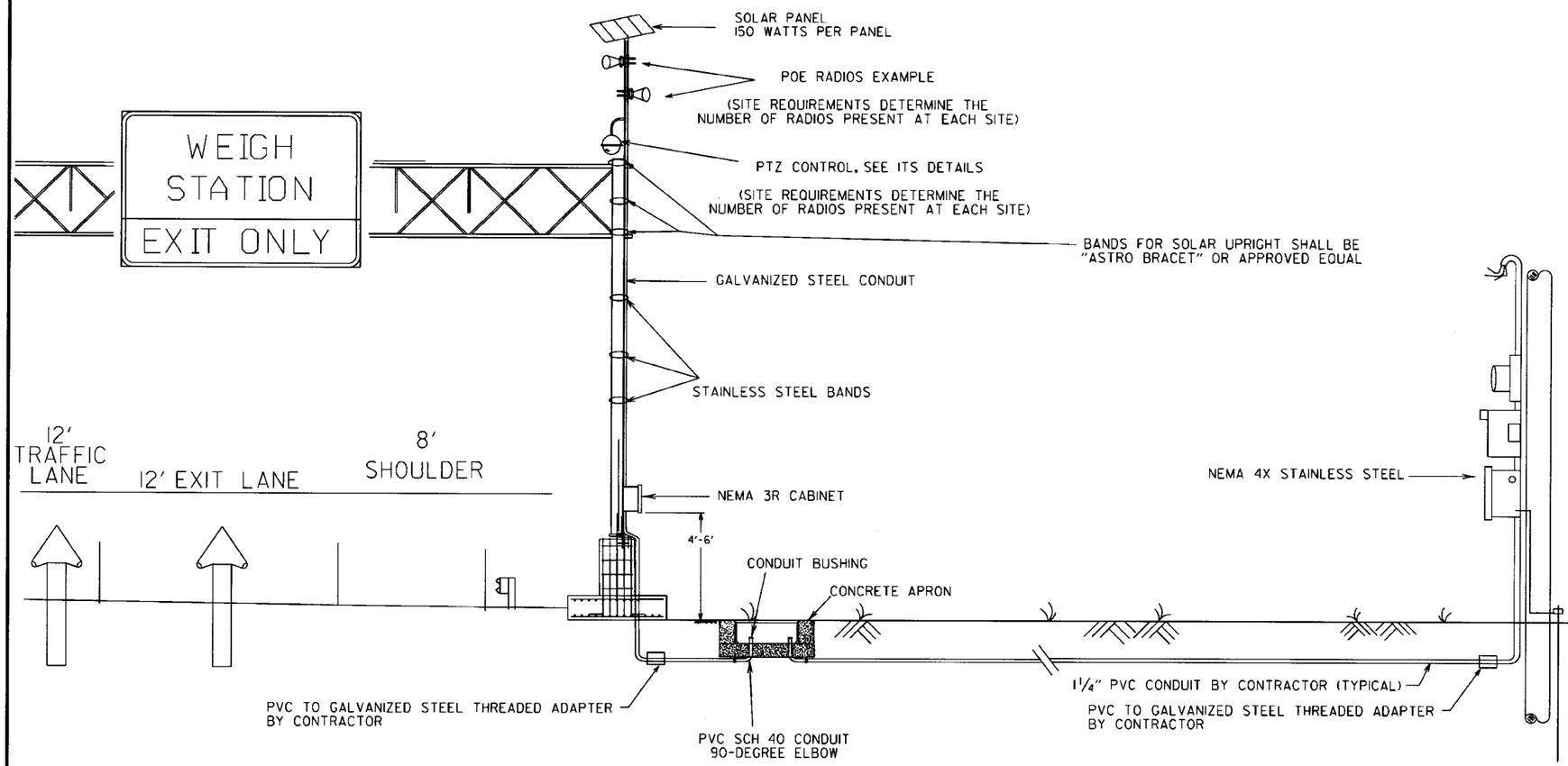
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTIN
6-12-18

DETAILS FOR ANTENNA SUPPORT STRUCTURE ASSEMBLY
N.T.S.
DRAWING NO. 002
SHEET 2 OF 2

I-49 ANTENNA SUPPORT STRUCTURE ASSEMBLY.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	164	194

(2) DETAILS FOR ITS EQUIP. ON OVERHEAD (SIGN) STR.



NOTES:

1. SEE STANDARD DRAWING, SD-9, AND SERVICE POINT ASSEMBLY SPECIAL PROVISION FOR OVERHEAD SERVICE POINT.
2. PULL BOX SHALL BE FLUSH WITH GROUND. SEE PULL BOX SPECIAL PROVISION AND STANDARD DRAWING, SD-6.
3. THIS DRAWING APPLIES TO BOTH NORTHBOUND AND SOUTHBOUND SIGNS.
4. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT AND ITS PROPER FITTINGS SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICE BID FOR GALVANIZED STEEL CONDUIT.
5. PULL BOX BETWEEN THE SERVICE POINT AND POLE IS ONLY REQUIRED IF THE SERVICE POINT IS 20FT OR MORE AWAY FROM POLE.
6. POE RADIOS AND PTZ CAMERAS WILL BE PROVIDED BY ARDOT.
7. SOLAR PANELS ONLY INSTALLED AT LOCATIONS AS INDICATED ON THE PLAN SHEET.
8. THE NUMBER OF CAMERAS AND RADIOS VARY AT EACH LOCATION. CONTRACTOR SHALL VERIFY THE NUMBER OF ITS EQUIPMENT AT EACH LOCATION ON THE PLANS. SEE "ITS EQUIPMENT INSTALLATION" SP.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
9-12-18
JOSEPH A. SARTIN

ARDOT

ITS EQUIPMENT ON OVERHEAD (SIGN) STRUCTURE

DETAILS- N.T.S

NOTES:

1. SEE STANDARD DRAWING, SD-9, AND SERVICE POINT ASSEMBLY SPECIAL PROVISION FOR SERVICE POINT.

2. PULL BOX SHALL BE FLUSH WITH GROUND. SEE PULL BOX SPECIAL PROVISION AND STANDARD DRAWING, SD-6.

3. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT AND ITS PROPER FITTINGS SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICE BID FOR GALVANIZED STEEL CONDUIT.

4. PULL BOXES SHALL BE PROVIDED FOR THE THE SERVICE POINT AND THE ANTENNA SUPPORT STRUCTURE ASSEMBLY. CONTRACTOR SHALL REFER TO "SERVICE POINT ASSEMBLY" DETAILS AND THE "ANTENNA SUPPORT STRUCTURE ASSEMBLY" DETAILS.

5. POE RADIOS, CAT5E, RJ45 AND PTZ CAMERAS WILL BE PROVIDED BY ARDOT.

6. 2-2" PVC CONDUIT SCH40 SHALL BE PROVIDED. ONE FOR POWER. AND A SEPARATE ONE FOR FIBER.

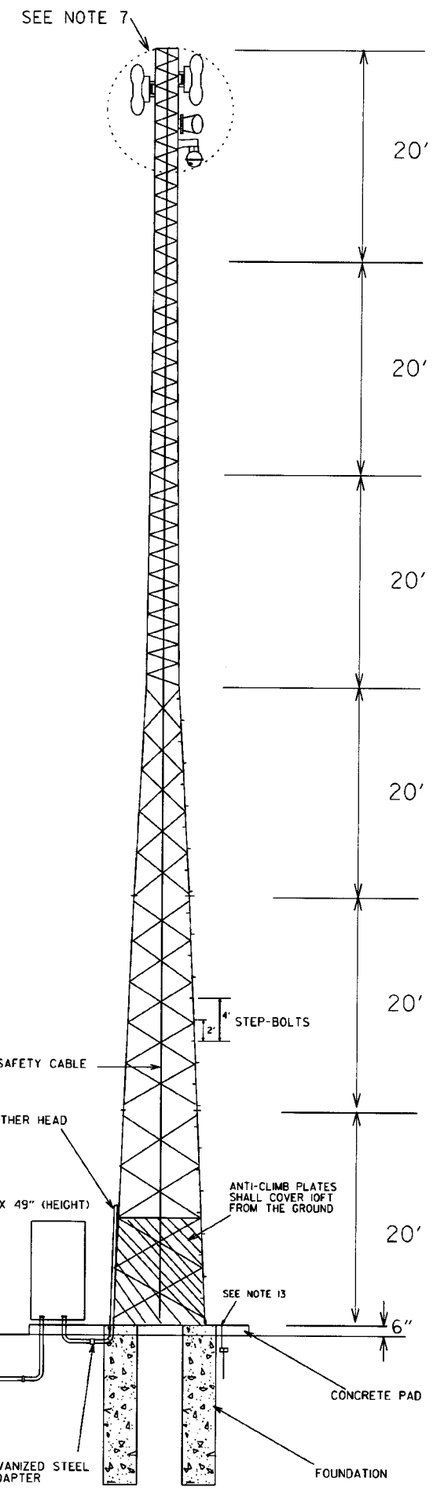
7. THE NUMBER OF CAMERAS AND RADIOS VARY AT EACH LOCATION. CONTRACTOR SHALL VERIFY THE NUMBER OF ITS EQUIPMENTS AT EACH LOCATION ON THE PLANS. SEE "ITS EQUIPMENT INSTALLATION" SP.

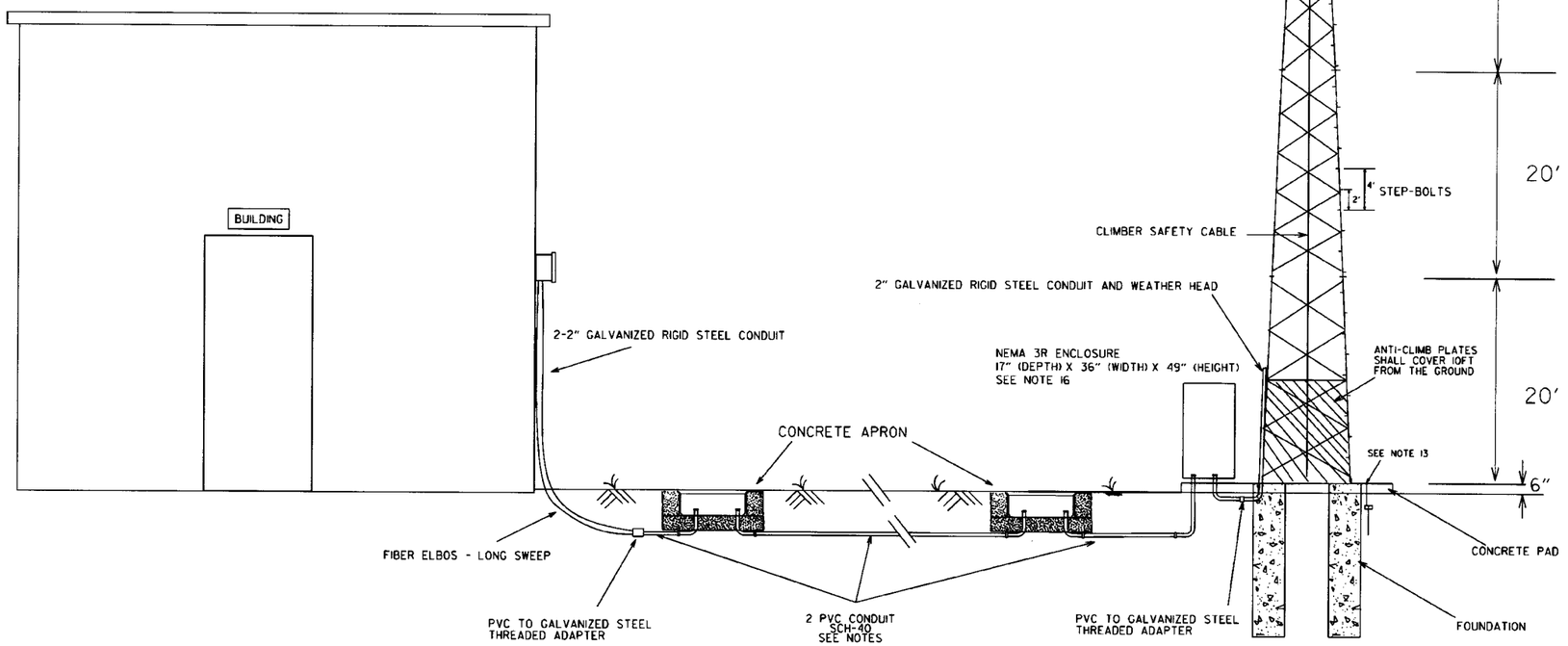
8. CONTRACTOR SHALL REFER TO "MAINTENANCE BUILDING" SP AND "ANTENNA SUPPORT STRUCTURE ASSEMBLY" DETAILS.

9. THE LOCATION OF TOWERS SHOWN IN THE PLANS ARE APPROXIMATE. THE FINAL LOCATION MAY BE SUBJECT TO CHANGE DUE TO CONSTRUCTION ENVIRONMENT. THE CONTRACTOR SHALL VERIFY THE FINAL LOCATION WITH THE JOB ENGINEER, AND ANY CHANGES SHALL BE APPROVED BY THE JOB ENGINEER.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	165	194

(2) DETAILS FOR ITS EQUIP. AT MAINTENANCE BUILDING





STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
24-7527
7-12-18
JOSEPH A. SARTIN

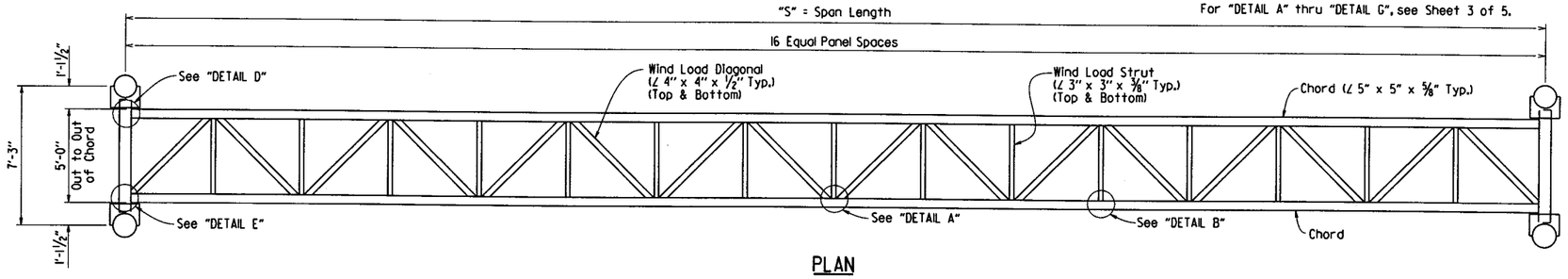
ARDOT

MAINTENANCE BUILDING

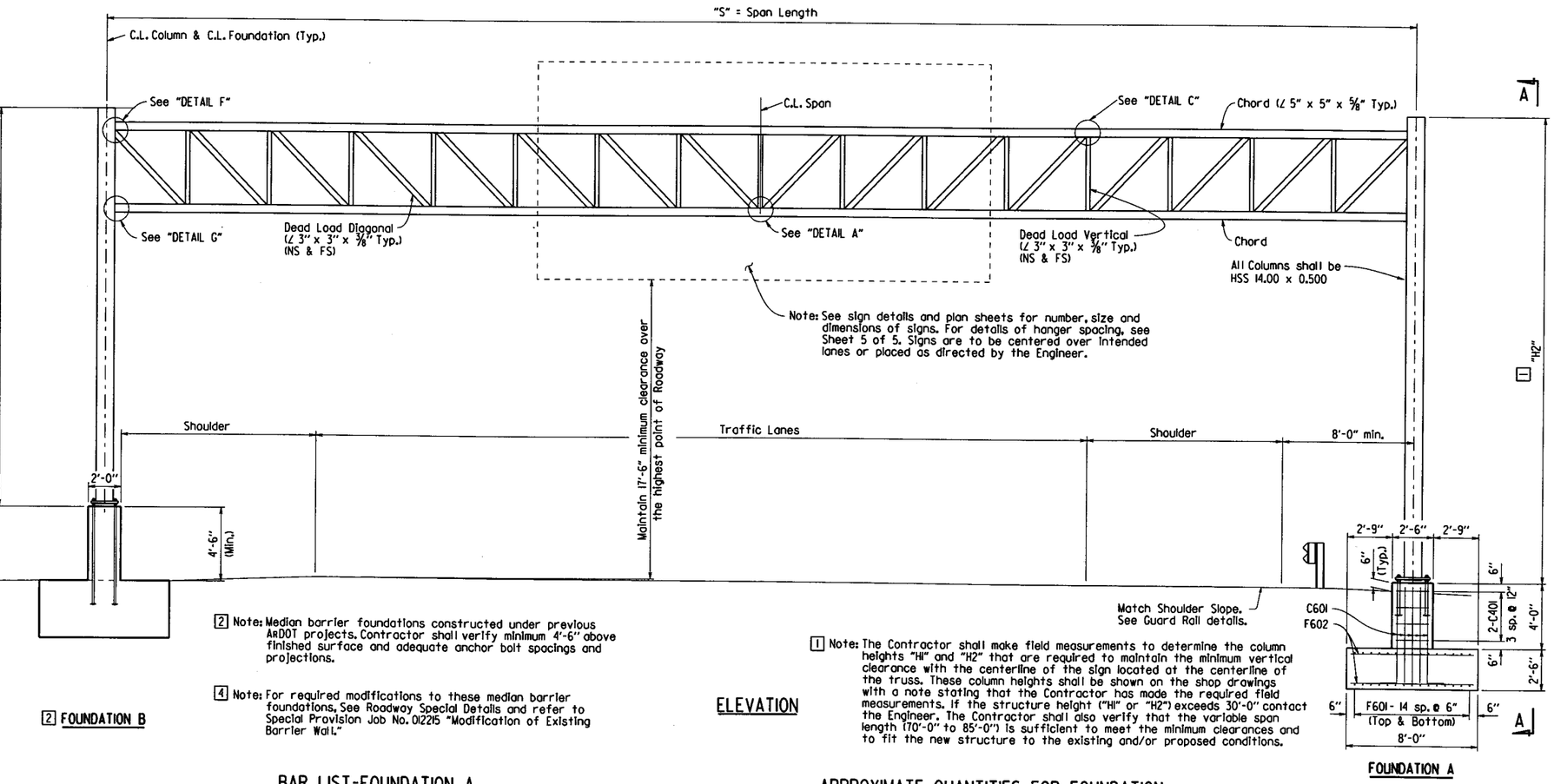
DETAILS - N.T.S

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	166	194
				①	SEE TABLE	OVERHEAD SIGN STR.		57801

Notes:
For "View A-A - Foundation A", see Sheet 2 of 5.
For "DETAIL A" thru "DETAIL G", see Sheet 3 of 5.



PLAN



ELEVATION

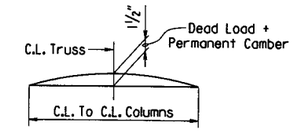
[2] FOUNDATION B

FOUNDATION A

[2] Note: Median barrier foundations constructed under previous ArDOT projects. Contractor shall verify minimum 4'-6" above finished surface and adequate anchor bolt spacings and projections.

[4] Note: For required modifications to these median barrier foundations, See Roadway Special Details and refer to Special Provision Job No. 012215 "Modification of Existing Barrier Wall."

[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 (70'-0" to 85'-0") is sufficient to meet the minimum clearances and to fit the new structure to the existing and/or proposed conditions.



TRUSS CAMBER DIAGRAM

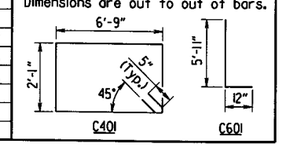
TABLE OF VARIABLES

SIGN STRUCTURE	SPAN LENGTH "S"	FOUNDATION		NOTES
		MEDIAN	OUTSIDE SHOULDER	
OH-040-17-23	70'-6"	A	A	
OH-049-17-01	70'-6"	A	A	
OH-049-17-02	82'-0"	A	A	
OH-049-72-13	72'-0"	A	A	
OH-049-72-20	72'-6"	B	A	[2]
OH-049-72-21	79'-6"	B	A	[2]
OH-049-72-22	74'-0"	B	A	[2]
OH-049-72-23	80'-0"	B	A	[2] [3]
OH-049-72-24	80'-0"	B	A	[2] [3]
OH-049-72-25	78'-0"	B	A	[2]
OH-049-72-26	80'-6"	B	A	[2]
OH-049-72-27	83'-0"	B	A	[2]
OH-049-72-28	81'-0"	B	A	[2]
OH-049-72-29	72'-6"	B	A	[2]
OH-049-72-30	72'-0"	B	A	[2]
OH-049-72-31	73'-6"	B	A	[2] [3]
OH-049-04-18	71'-0"	B	A	[2] [4]
OH-049-04-19	79'-6"	B	A	[2] [4]
OH-049-04-21	72'-0"	B	A	[2]
OH-049-04-22	82'-6"	B	A	[2] [3]
OH-049-04-23	73'-0"	B	A	[2]
OH-049-04-25	73'-0"	B	A	[2]
OH-049-04-26	71'-6"	B	A	[2]
OH-049-04-27	71'-0"	B	A	[2]
OH-049-04-29	72'-6"	B	A	[2] [4]

[3] Receives Dynamic Message Sign (DMS) Assembly

TABULAR DATA BY: KAP DATE: 4-24-18
CHECKED BY: SWP DATE: 9/14/18

BAR LIST-FOUNDATION A

MARK	NO. REQ'D	LENGTH	P.D.	BENDING DIAGRAMS
				Dimensions are out to out of bars.
C401	8	18'-2"	3"	
C601	48	6'-9"	4½"	Str.
F601	30	17'-6"	Str.	
F602	70	7'-6"	Str.	

APPROXIMATE QUANTITIES FOR FOUNDATION (FOR INFORMATION ONLY)

STRUCTURE	CLASS S CONCRETE (CU. YDS.)	REINFORCING STEEL (LBS.)	EXCAVATION (CU. YDS.)
FOUNDATION A	17.22	2,161	51

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
9-14-18
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 1 OF 5
DETAILS OF 70' TO 85' STEEL OVERHEAD SIGN STRUCTURE

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

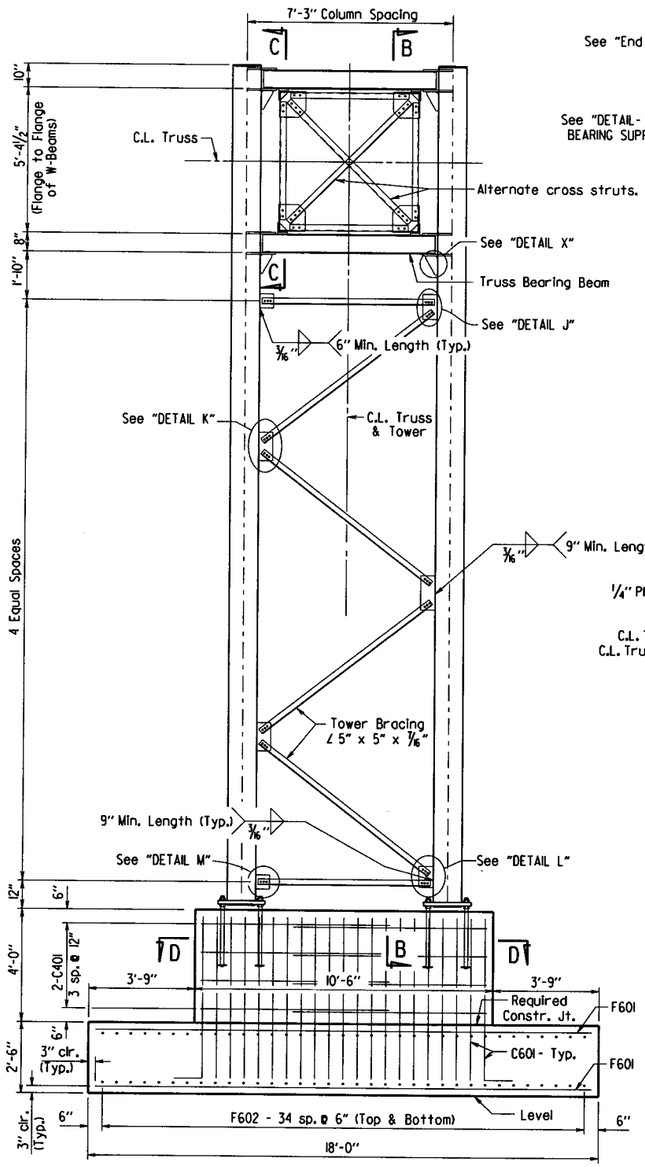
LITTLE ROCK, ARK.

DRAWN BY: ACP DATE: 01/08/16 FILENAME: FILENAME
CHECKED BY: KWY DATE: 4/8/16 SCALE: No Scale
DESIGNED BY: RBR DATE: 8/11

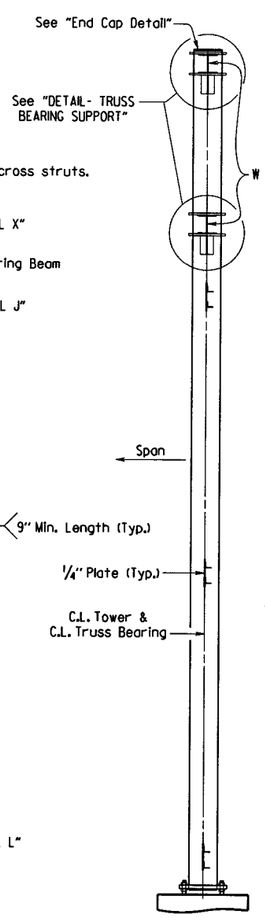
STR. NO. SEE TABLE DRAWING NO. 57801

PRINT DATE: 9/14/2018

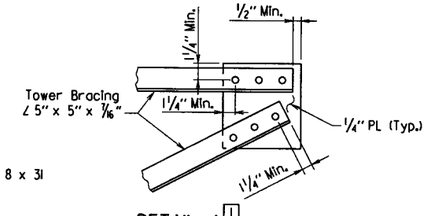
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	167	194
				SEE TABLE		OVERHEAD SIGN STR.		57802



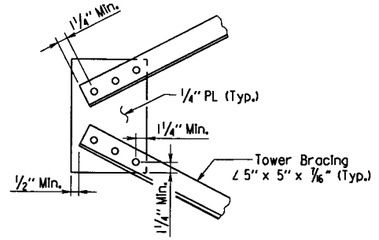
VIEW A-A - FOUNDATION A



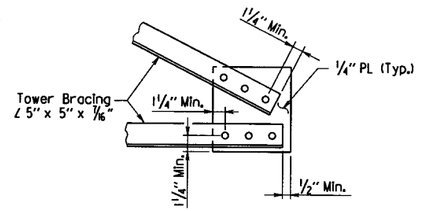
VIEW B-B



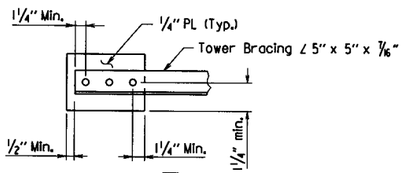
DETAIL J [1]



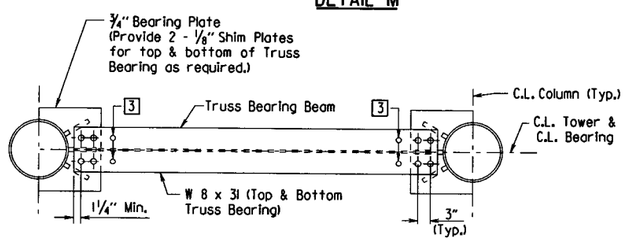
DETAIL K [1]



DETAIL L [1]



DETAIL M [1]

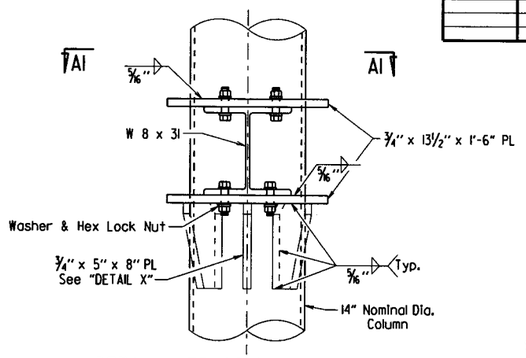


PLAN AT TRUSS BEARING

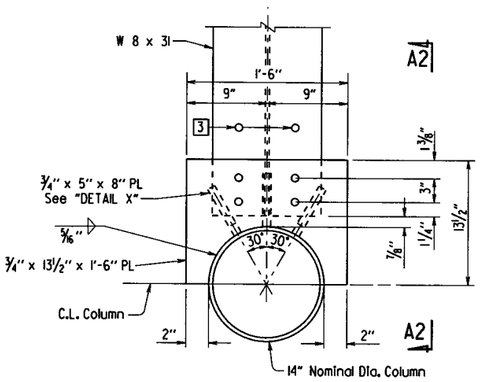
[1] Bolts shall be ¾" ø and open holes shall be 15/16 "ø. Minimum center to center bolt spacing shall be 2½". Dimensions shown are typical.

[2] 11/16 " x 2" Slotted Hole in Gusset Plate and Chord Angle. Use plate washer on Gusset plate side. 11/16 " ø holes in ¾" shim plate and beam flange.

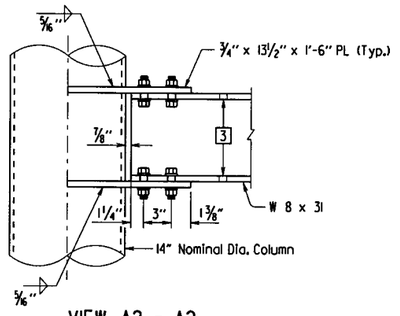
[3] 11/16 " ø holes at top and bottom flanges of W 8 x 31.



DETAIL - TRUSS BEARING SUPPORT

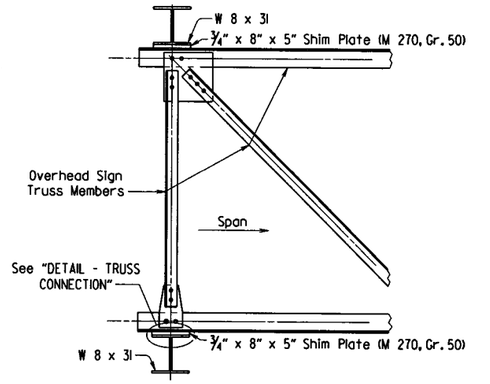


VIEW A1 - A1

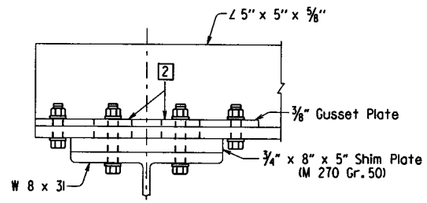


VIEW A2 - A2

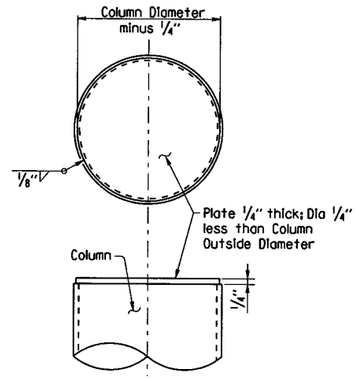
¾" x 5" x 8" Plate not shown for clarity



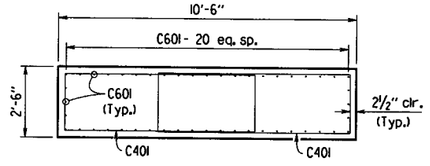
VIEW C-C



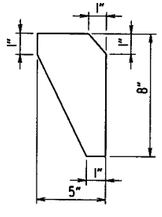
DETAIL - TRUSS CONNECTION



END CAP DETAIL



SECTION D-D



DETAIL X

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
7/26/18
BRIDGE ENGINEER

SHEET 2 OF 5
DETAILS OF 70' TO 85'
STEEL OVERHEAD SIGN STRUCTURE

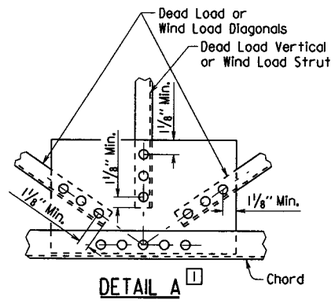
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: ACP DATE: 01/08/16 FILENAME: FILENAME
CHECKED BY: KWY DATE: 4/8/16 SCALE: No Scale
DESIGNED BY: RBR DATE: 8/11

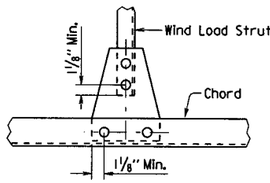
STR. NO. SEE TABLE DRAWING NO. 57802

PRINT DATE: 7/26/2018

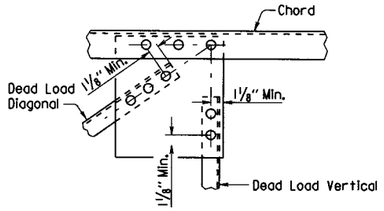
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	168	194
				(1) SEE TABLE		OVERHEAD SIGN STR.		57803



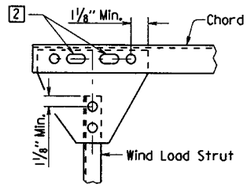
DETAIL A [1]



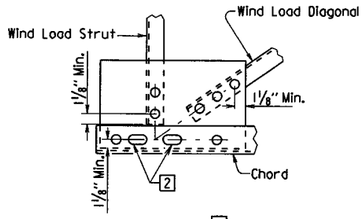
DETAIL B [1]



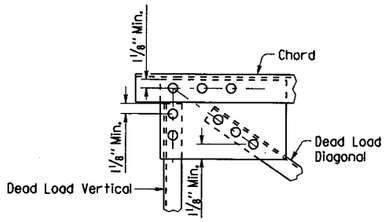
DETAIL C [1]



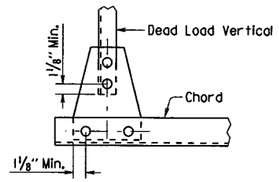
DETAIL D [1]



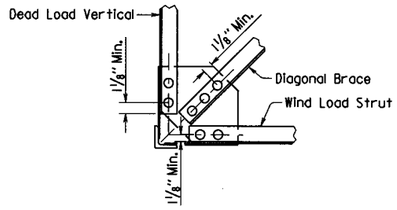
DETAIL E [1]



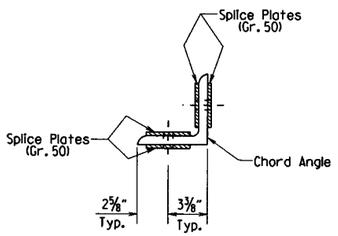
DETAIL F [1]



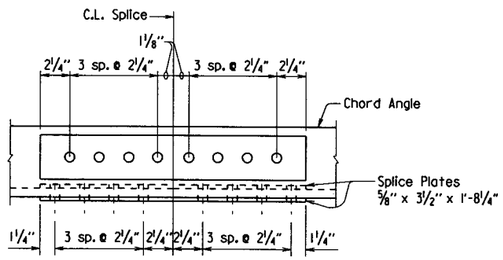
DETAIL G [1]



DETAIL N [1]

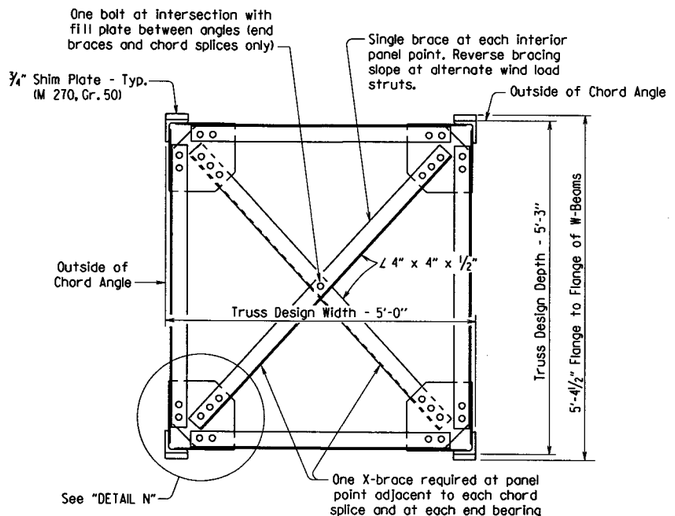


VIEW D-D



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

CHORD SPLICE



TRUSS SECTION

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

[1] Dimensions shown are typical.

[2] 11/16" x 2" Slotted Holes in Gusset Plate and Chord Angle. Use plate washer on Gusset Plate side. 11/16" ø holes in ¾" shim plate and beam flange.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
7/26/18

BRIDGE ENGINEER

SHEET 3 OF 5
DETAILS OF 70' TO 85'
STEEL OVERHEAD SIGN STRUCTURE

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: ACP DATE: 01/08/16 FILENAME: b012215_OHSign70-85.dgn
CHECKED BY: KWY DATE: 4/8/16 SCALE: No Scale
DESIGNED BY: RBR DATE: 8/11

STR. NO. SEE TABLE DRAWING NO. 57803

PRINT DATE: 7/24/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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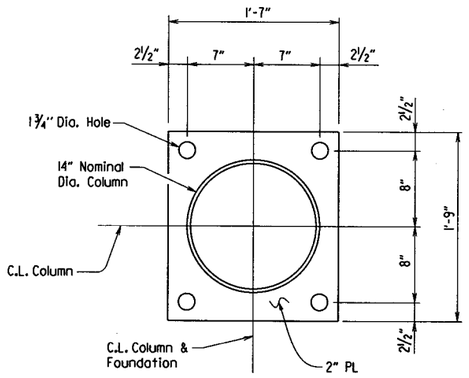
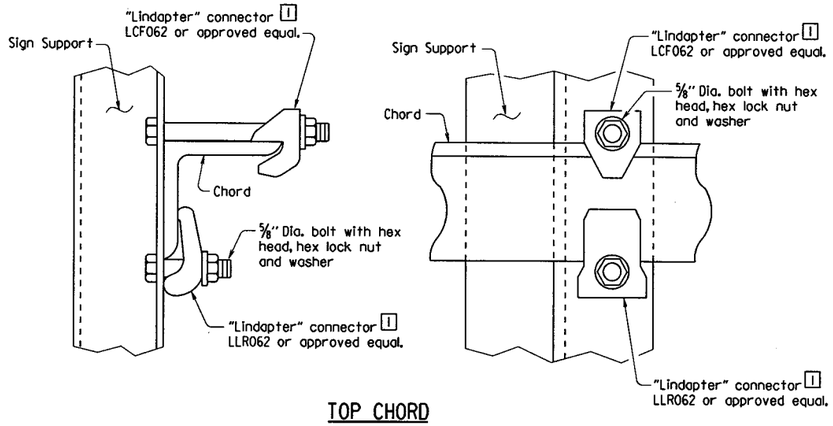
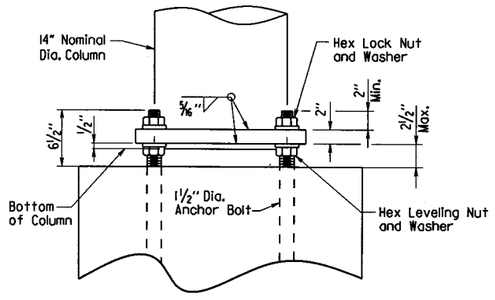
				JOB NO.		012215	169	196
				① SEE TABLE		OVERHEAD SIGN STR.		57804



PLAN - COLUMN BASE

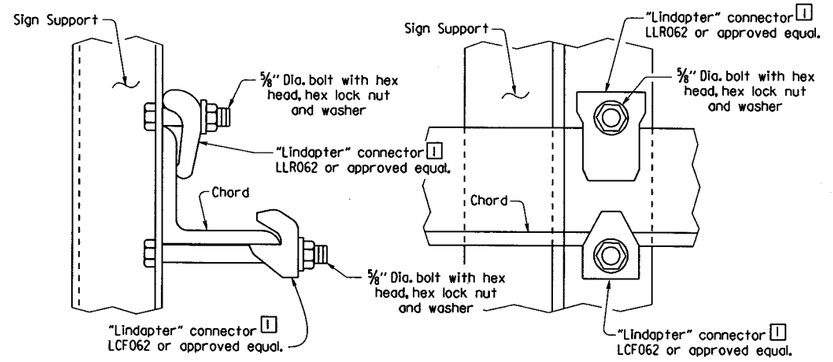


TOP CHORD



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

ELEVATION - COLUMN BASE

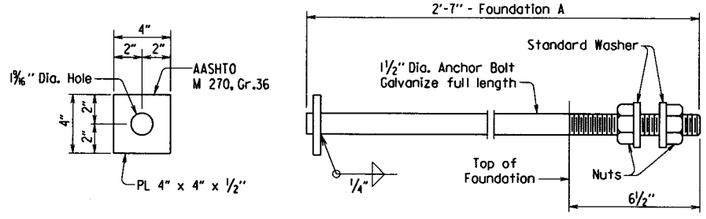


BOTTOM CHORD

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

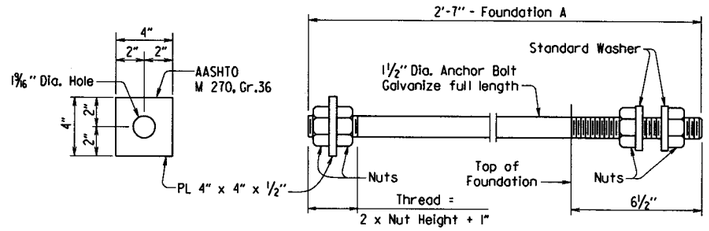
Note: Install all support connectors clear of the gusset plates and splice locations.

DETAILS OF SIGN SUPPORT CONNECTION TO TRUSS



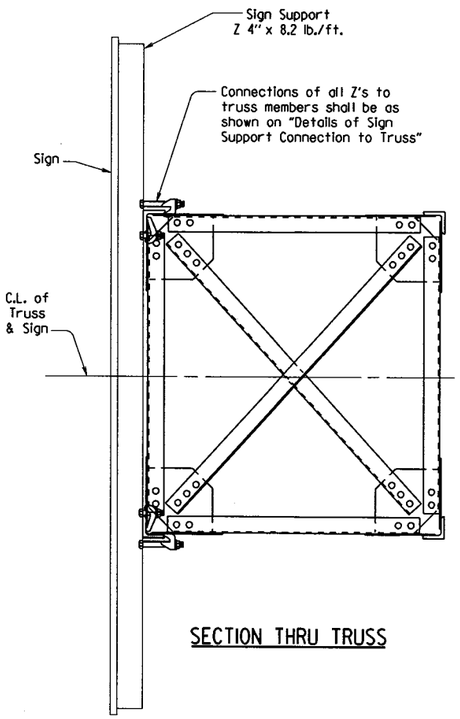
Anchor bolts shall comply with AASHTO M 314, Grade 55 with Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts for bolts shall be as specified in Subsection 807.07.

ANCHOR BOLT DETAIL

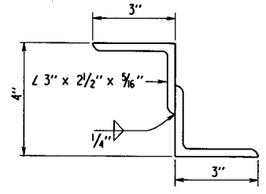


Anchor bolts shall comply with AASHTO M 314, Grade 55 with Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts for bolts shall be as specified in Subsection 807.07.

ALTERNATE ANCHOR BOLT DETAIL



SECTION THRU TRUSS



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

DETAILS OF ALTERNATE Z SUPPORT

STATE OF ARKANSAS
CHARLES R. ELLIS
LICENSED PROFESSIONAL ENGINEER
No. 9235
7/24/18
BRIDGE ENGINEER

SHEET 4 OF 5
DETAILS OF 70' TO 85'
STEEL OVERHEAD SIGN STRUCTURE

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

DRAWN BY: ACP DATE: 01/08/16
CHECKED BY: KWY DATE: 4/8/16
DESIGNED BY: RBR DATE: 8/11
FILENAME: b012215_0HSign70-85.dgn
SCALE: No Scale
STR. NO. SEE TABLE DRAWING NO. 57804

PRINT DATE: 7/24/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	170	194
				(1) SEE TABLE		OVERHEAD SIGN STR.		57805

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 plus a Dynamic Message Sign (DMS) with a maximum deadload weight of 2200 lbs. 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:	AASHTO M 270, Grade 36 (Fy = 36,000 psi).
Plate, W-Section:	AASHTO M 270, 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), ASTM A714, Class 2, Grade II, Type E or S (Fy = 50,000 psi).
Z-Shapes:	AASHTO M 270, Grade 36 (Fy = 36,000 psi).
Shim Plates:	ASTM A1011, SS, Grade 36, Type 2, or Grade 40
Bolts:	ASTM A325, Type 1.
Locknuts - Approved Type:	Meeting or exceeding AASHTO M 292.
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 Special Provision Job 012215 "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 ⅞" diameter and open holes shall be 1 1/16" diameter. Bolt spacing shall be 2¼" for ⅞" diameter 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 A325 Type 1, galvanized according to Subsection 807.06. Nuts and washers for ASTM A325 Type 1 bolts shall be furnished and galvanized in accordance with Subsection 807.06.

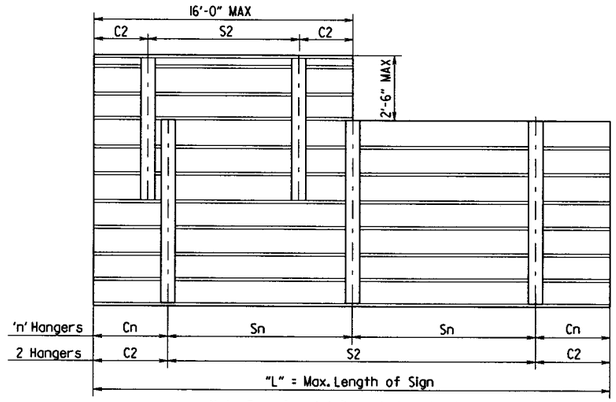
Lock nuts to be equipped with nylon locking inserts or other approved type locking system. Lock nuts to be installed according to manufacturer's recommendations.

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 Special Provision Job 012215 "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 Overhead Sign Structure". The excavations for the footings shall be backfilled before the structure is attached to the foundations.

The DMS supplier shall be responsible for the attachment method and materials used to attach the DMS and it accessories to the structure. The method of attachement shall not facilitate any corrosion of the structure.

For additional information regarding the DMS, see SP Job 012215 "Overhead Dynamic Message Sign Assembly".



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

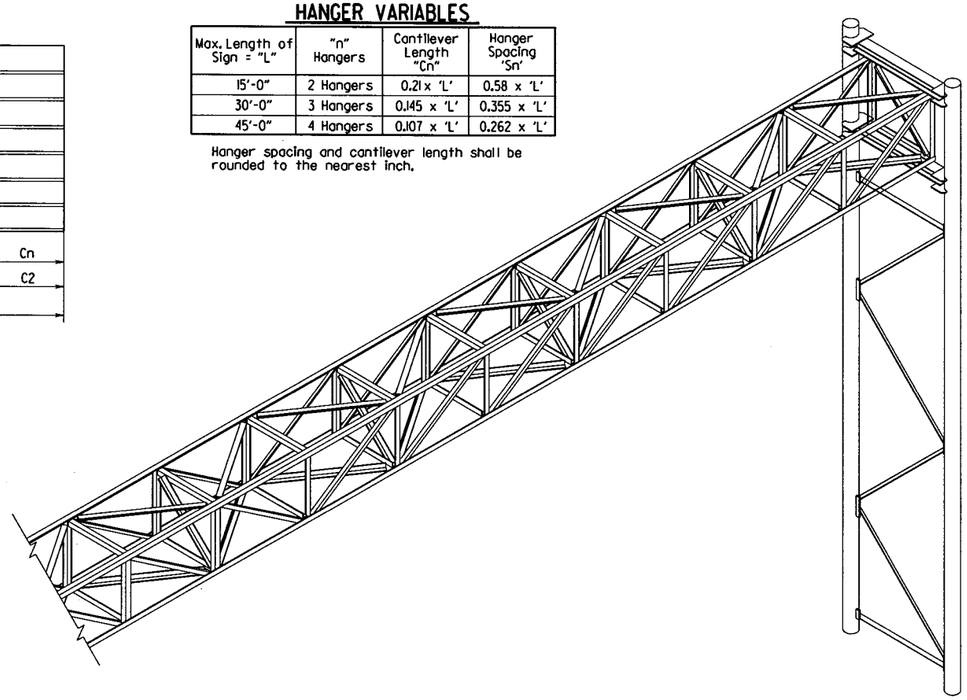
HANGER SPACING DETAILS FOR EXTRUDED PANEL SIGNS

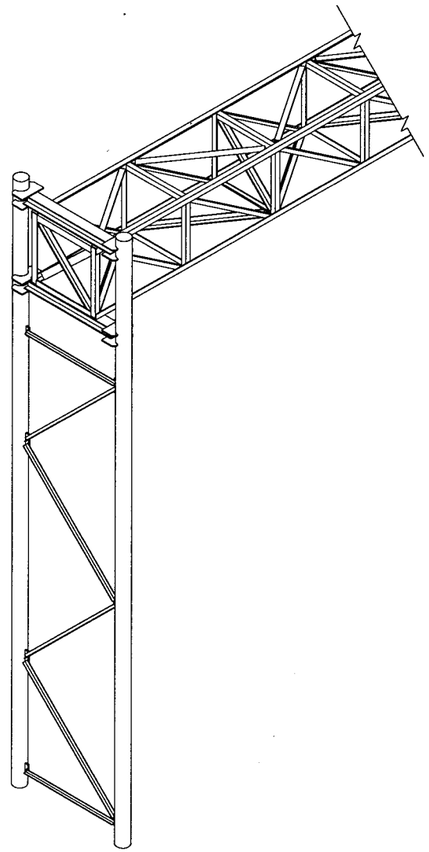
[1] In addition to material requirements, all pipe used for welded applications shall have a maximum carbon equivalency (CE) of 0.4 using the following equation: CE = %C + Mn/6 + %Cu/40 + %Ni/20 + %Cr/10 - %Mo/50 - %V/10

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'
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
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
7/26/18
BRIDGE ENGINEER

SHEET 5 OF 5
DETAILS OF 70' TO 85'
STEEL OVERHEAD SIGN STRUCTURE

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: ACP DATE: 01/08/16 FILENAME: b012215_OHSign70-85.dgn
CHECKED BY: KWY DATE: 4/8/16 SCALE: No Scale
DESIGNED BY: RBR DATE: 8/11

STR. NO. SEE TABLE DRAWING NO. 57805

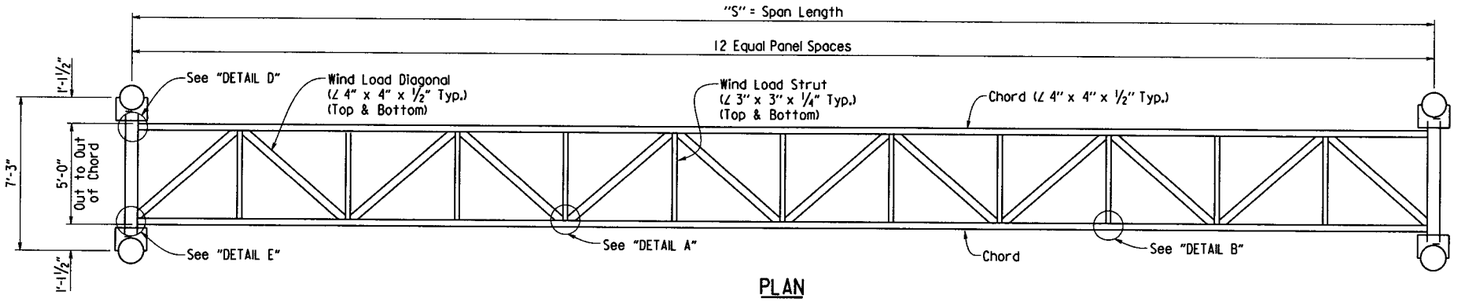
PRINT DATE: 7/24/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	171	194

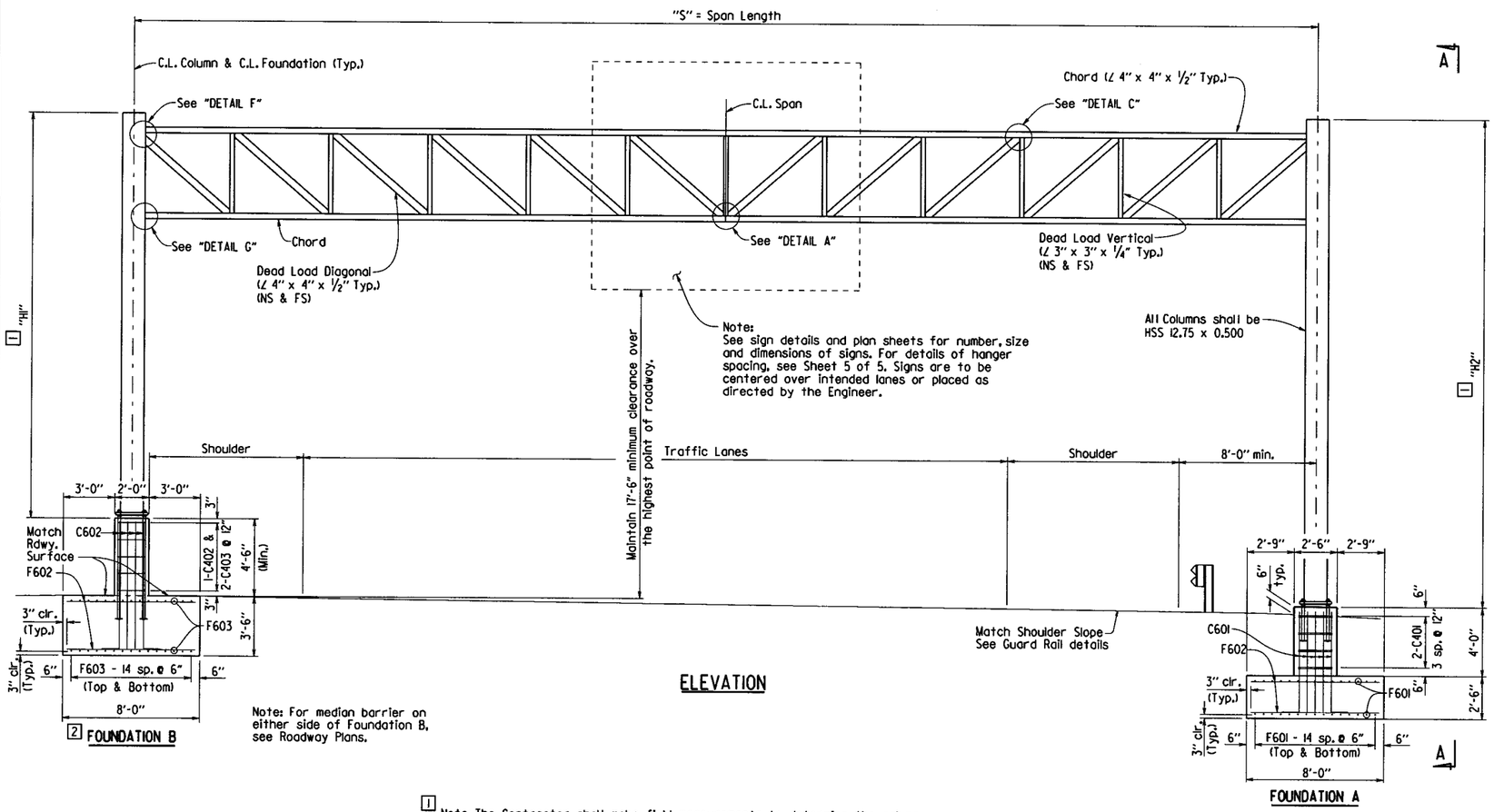
(1) SEE TABLE - OVERHEAD SIGN - 57806

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



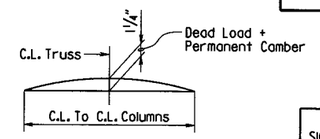
ELEVATION

[2] FOUNDATION B

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

FOUNDATION A

[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 (155'-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

TABULAR DATA BY: KDH DATE: 4-25-18
CHECKED BY: SWP DATE: 7-24-18

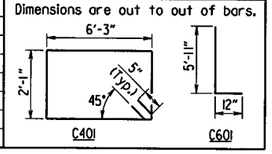
TABLE OF VARIABLES

SIGN STRUCTURE	SPAN LENGTH "S"	FOUNDATION		NOTE
		MEDIAN	OUTSIDE SHOULDER	
OH-049-72-14	62'-0"	A	A	
OH-049-72-15	63'-0"	A	A	
OH-049-72-16	62'-6"	B	A	
OH-049-72-17	64'-0"	B	A	
OH-049-72-18	63'-0"	B	A	[2]

[2] Existing Median Barrier Foundation was modified under Job BB0414. Anchor bolts are spaced 16" transversely and 14" longitudinally. Contractor shall verify all measurements and make necessary adjustments prior to submitting shop drawings for approval.

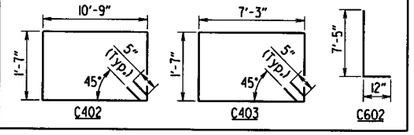
BAR LIST-FOUNDATION A

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
Charles R. Ellis
LICENSED PROFESSIONAL ENGINEER
No. 9235
7/26/18
CHARLES R. ELLIS
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: Oct. 2015
CHECKED BY: ACP DATE: 4/8/16
DESIGNED BY: TMG DATE: Oct. 2015
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SCALE: No Scale

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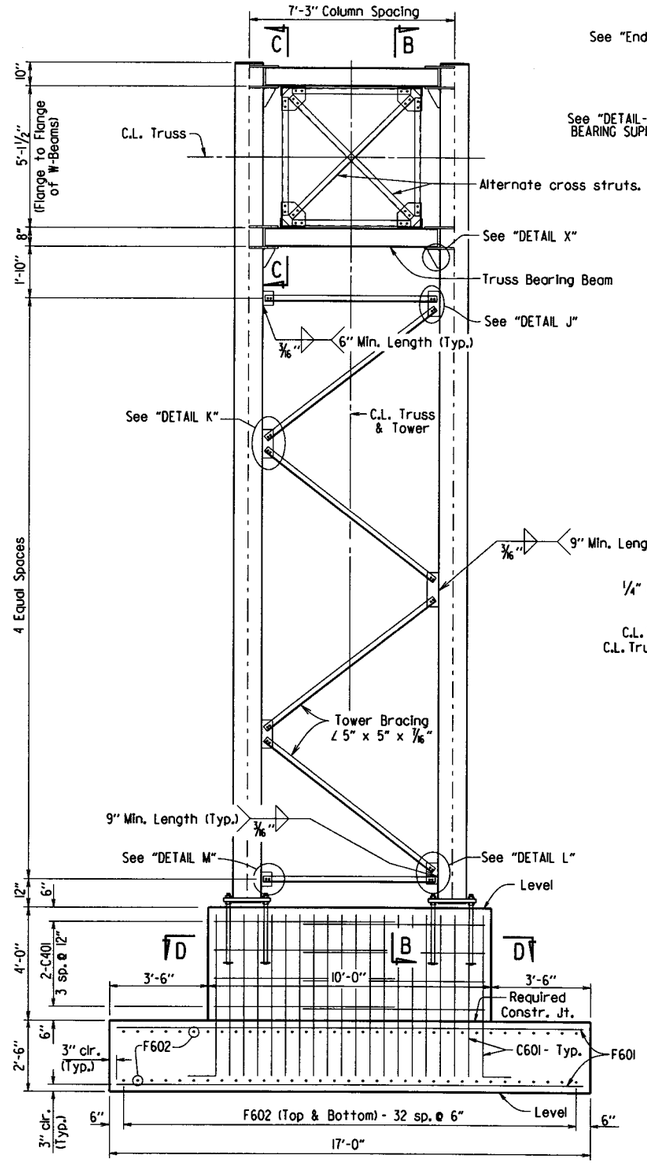
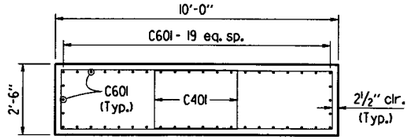
				6	ARK.			
				JOB NO.		012215	172	174

① SEE TABLE - OVERHEAD SIGN - 57807

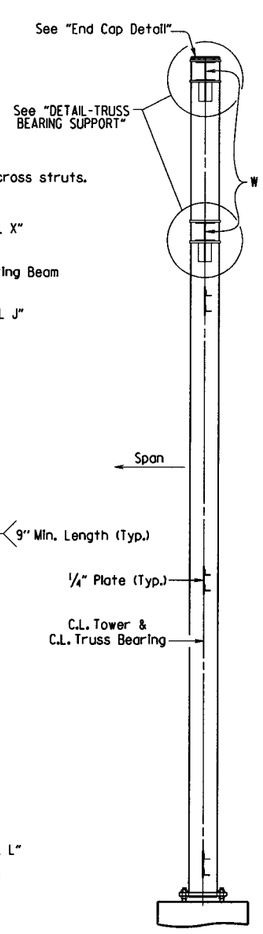


VIEW A-A - FOUNDATION A

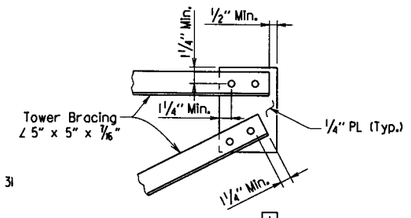


SECTION D-D

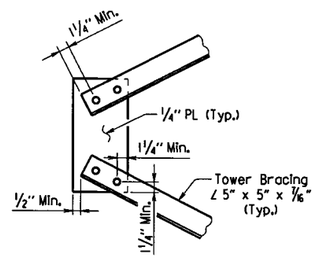
Note: For details of "View A-A - Foundation B", see Sheet 3 of 5.



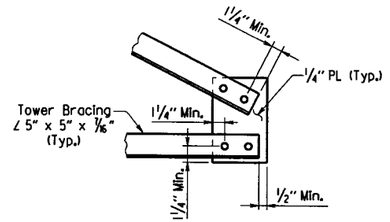
VIEW B-B



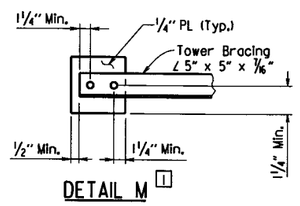
DETAIL J [1]



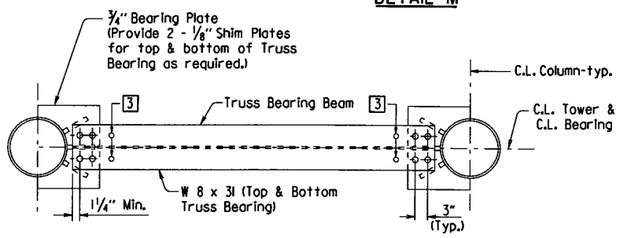
DETAIL K [1]



DETAIL L [1]



DETAIL M [1]

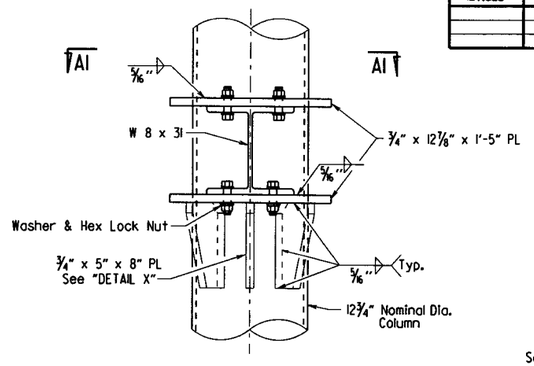


PLAN AT TRUSS BEARING

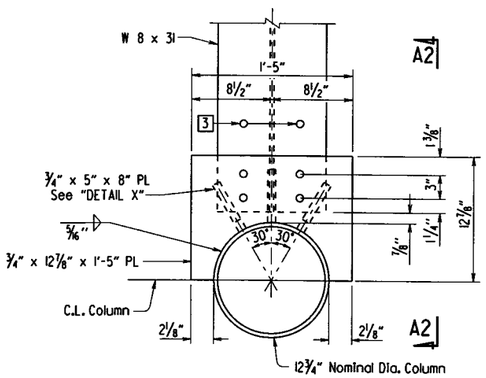
[1] Bolts shall be ¾" ø and open holes shall be 15/16" ø. Minimum center to center bolt spacing shall be 2½". Dimensions shown are typical.

[2] 11/16" x 2" Slotted Hole in Gusset Plate and Chord Angle. Use plate washer on Gusset plate side. 11/16" ø holes in ¾" shim plate and beam flange.

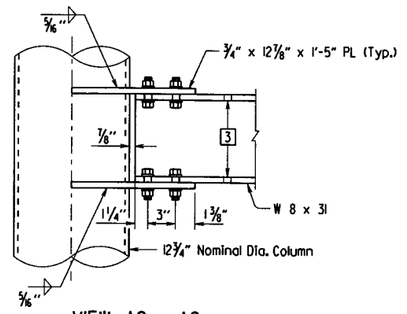
[3] 11/16" ø holes at top and bottom flanges of W 8 x 31.



DETAIL - TRUSS BEARING SUPPORT

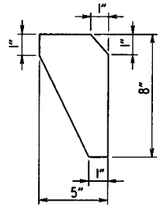


VIEW A1 - A1

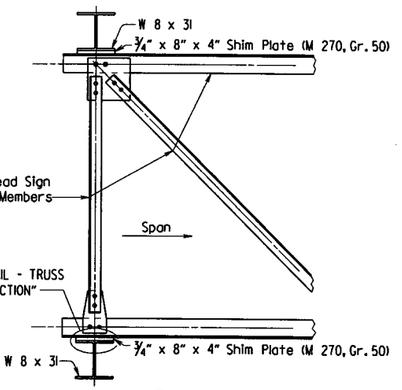


VIEW A2 - A2

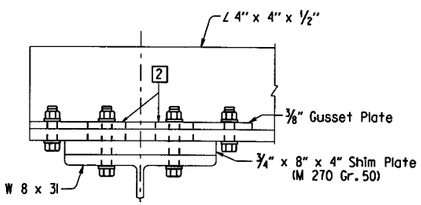
¾" x 5" x 8" Plate not shown for clarity



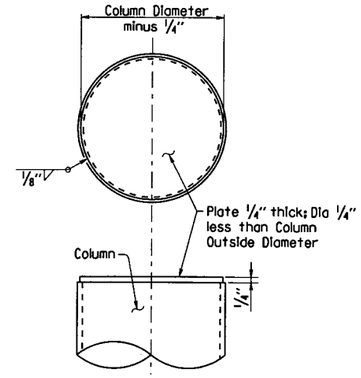
DETAIL X



VIEW C-C



DETAIL - TRUSS CONNECTION



END CAP DETAIL

STATE OF ARKANSAS
CHARLES R. ELLIS
LICENSED PROFESSIONAL ENGINEER
No. 9235
8-30-18

BRIDGE ENGINEER

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

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: A.M.S. DATE: Oct. 2015
CHECKED BY: ACP DATE: 4/8/16
DESIGNED BY: TMG DATE: Oct. 2015
FILENAME: b012215 oh 55-69.dgn
SCALE: No Scale

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PRINT DATE: 8/30/2018

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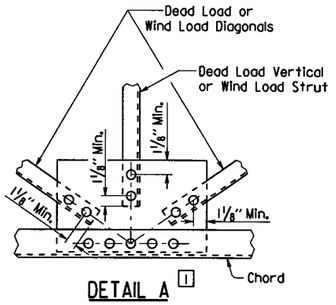
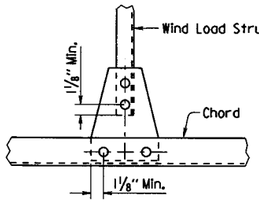
				6	ARK.			
				JOB NO.		012215	173	194

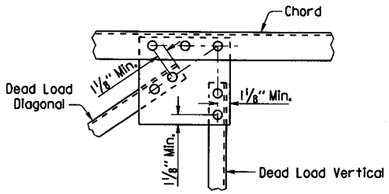
① SEE TABLE - OVERHEAD SIGN - 57808



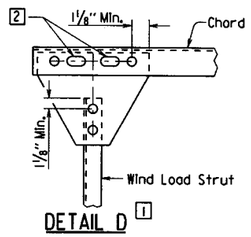
DETAIL A [1]



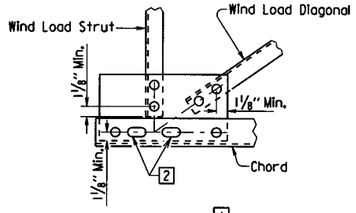
DETAIL B [1]



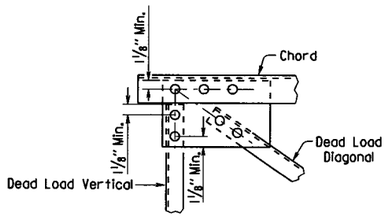
DETAIL C [1]



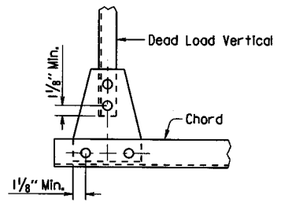
DETAIL D [1]



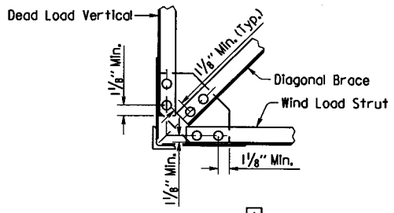
DETAIL E [1]



DETAIL F [1]

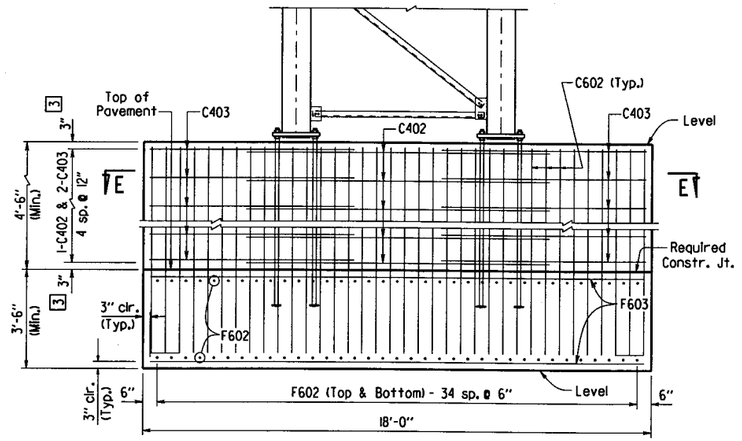


DETAIL G [1]

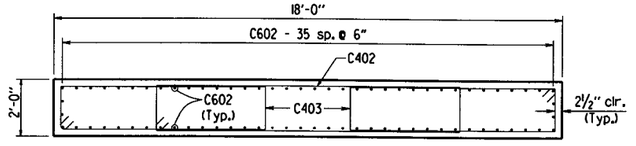


DETAIL N [1]

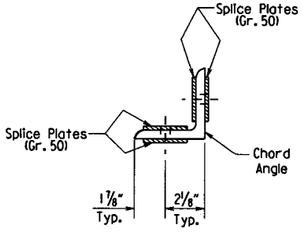
Note:
For details of column not shown, see "View A-A - Foundation A" on Sheet 2 of 5.



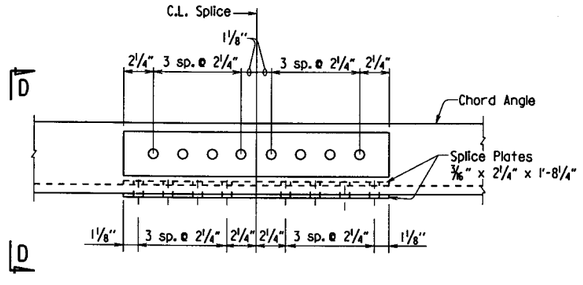
VIEW A-A - FOUNDATION B



SECTION E-E

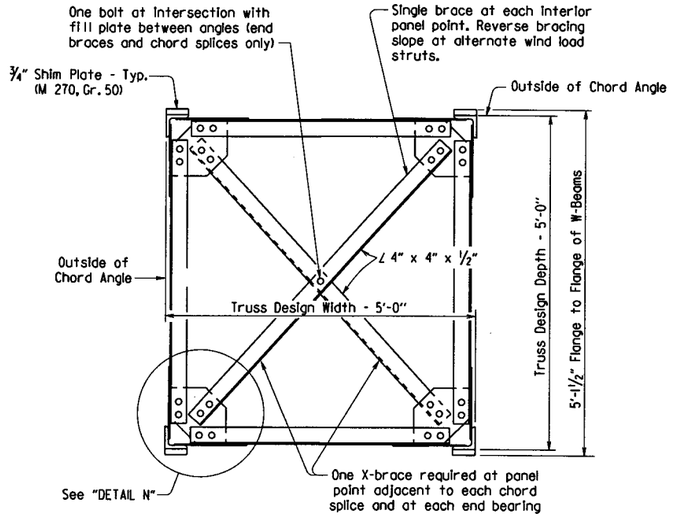


VIEW D-D



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

CHORD SPLICE



TRUSS SECTION

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

[1] Dimensions shown are typical.

[2] 11/16" x 2" Slotted Holes in Gusset Plate and Chord Angle. Use plate washer on Gusset Plate side. 11/16" ø holes in ¾" shim plate and beam flange.

[3] Minor adjustments will be allowed to maintain C402 & C403 12" spacing for foundations located in grades.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
9-6-18
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.

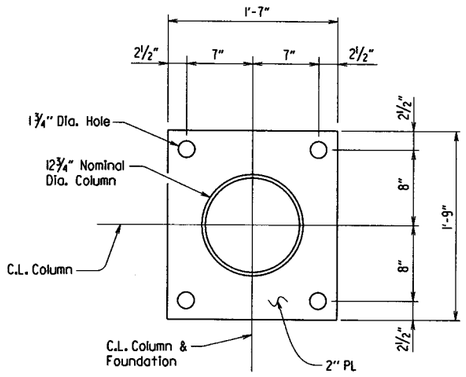
DRAWN BY: A.M.S. DATE: Oct. 2015
CHECKED BY: ACP DATE: 4/8/16
DESIGNED BY: TMG DATE: Oct. 2015
FILENAME: b012215 oh 55-69.dgn
SCALE: No Scale

STR. NO. SEE TABLE DRAWING NO. 57808

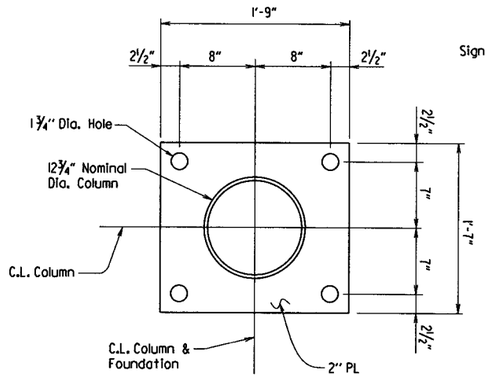
PRINT DATE: 9/6/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	174	194

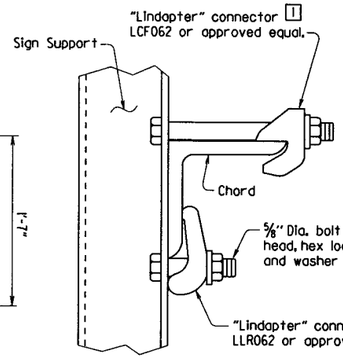
① SEE TABLE - OVERHEAD SIGN - 57809

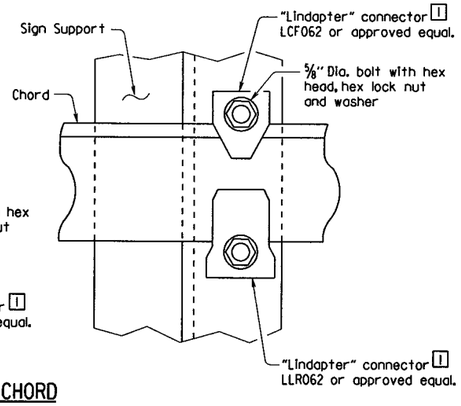


PLAN - COLUMN BASE

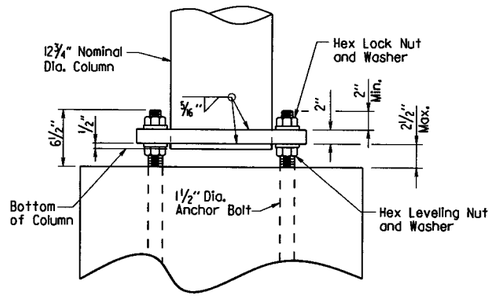


PLAN - COLUMN BASE
Structure OH-049-72-18
Foundation B



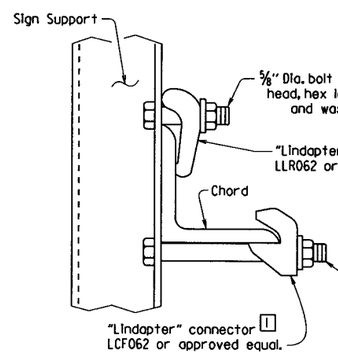


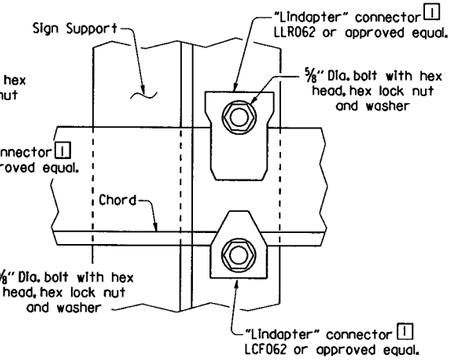
TOP CHORD



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

ELEVATION - COLUMN BASE



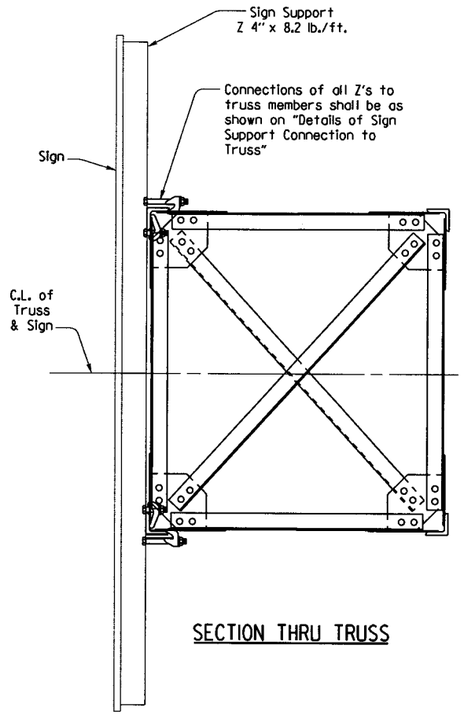


BOTTOM CHORD

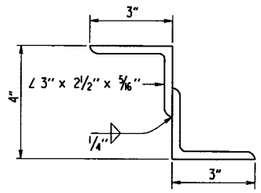
[1] All "Lindapter" connectors or approved equal shall be installed according to manufacturer's recommendations. All connectors, bolts, nuts and washers shall be galvanized.

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

DETAILS OF SIGN SUPPORT CONNECTION TO TRUSS

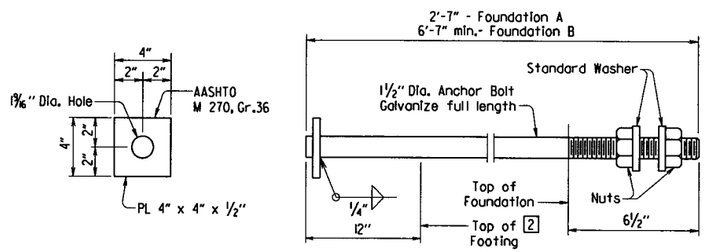


SECTION THRU TRUSS



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

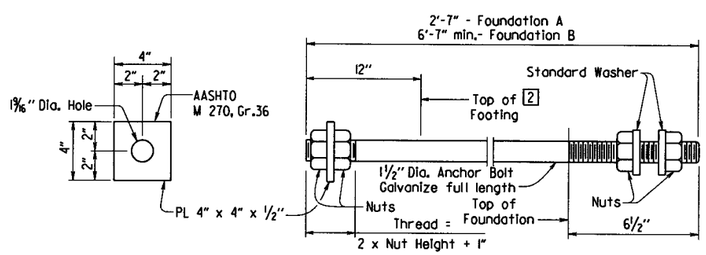
DETAILS OF ALTERNATE Z SUPPORT



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

[2] Foundation B only.

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

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
7/26/18

BRIDGE ENGINEER

SHEET 4 OF 5
DETAILS OF 55' - 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: b012215 oh 55-69.dgn
SCALE: No Scale

STR. NO. SEE TABLE DRAWING NO. 57809

PRINT DATE: 7/26/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	175	194

(1) SEE TABLE - OVERHEAD SIGN - 57810

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 plus a Dynamic Message Sign (DMS) with a maximum deadload weight of 2200 lbs per side. Use of additional sign area or a heavier DMS 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:	AASHTO M 270, Grade 36 (Fy = 36,000 psi)
Plate, W-Section:	AASHTO M 270, 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), ASTM A714, Class 2, Grade II, Type E or S (Fy = 50,000 psi)
Z-Shapes:	AASHTO M 270, Grade 36 (Fy = 36,000 psi)
Shim Plates:	ASTM A1011, SS, Grade 36, Type 2, or Grade 40
Bolts:	ASTM A325, Type 1
Locknuts - Approved Type:	Meeting or exceeding AASHTO M 292
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 Special Provision Job 012215 "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" diameter and open holes shall be 11/16" 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 truss frame bolts shall comply with ASTM A325 Type 1, galvanized according to Subsection 807.06. Nuts and washers for ASTM A325 Type 1 bolts shall be furnished and galvanized in accordance with Subsection 807.06.

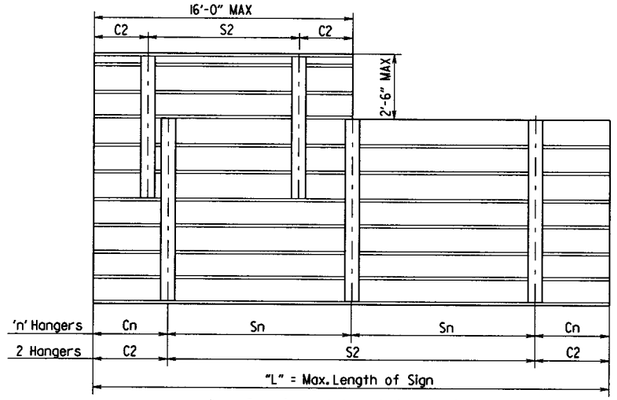
Lock nuts to be equipped with nylon locking inserts or other approved type locking system. Lock nuts to be installed according to manufacturer's recommendations.

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 Special Provision Job 012215 "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 Overhead Sign Structure ( )". The excavations for the footings shall be backfilled before the structure is attached to the foundations.

The DMS supplier shall be responsible for the attachment method and materials used to attach the DMS and it accessories to the structure. The method of attachement shall not facilitate any corrosion of the structure.

For additional information regarding the DMS, see SP Job 012215 "Overhead Dynamic Message Sign Assembly".



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

HANGER SPACING DETAILS FOR EXTRUDED PANEL SIGNS

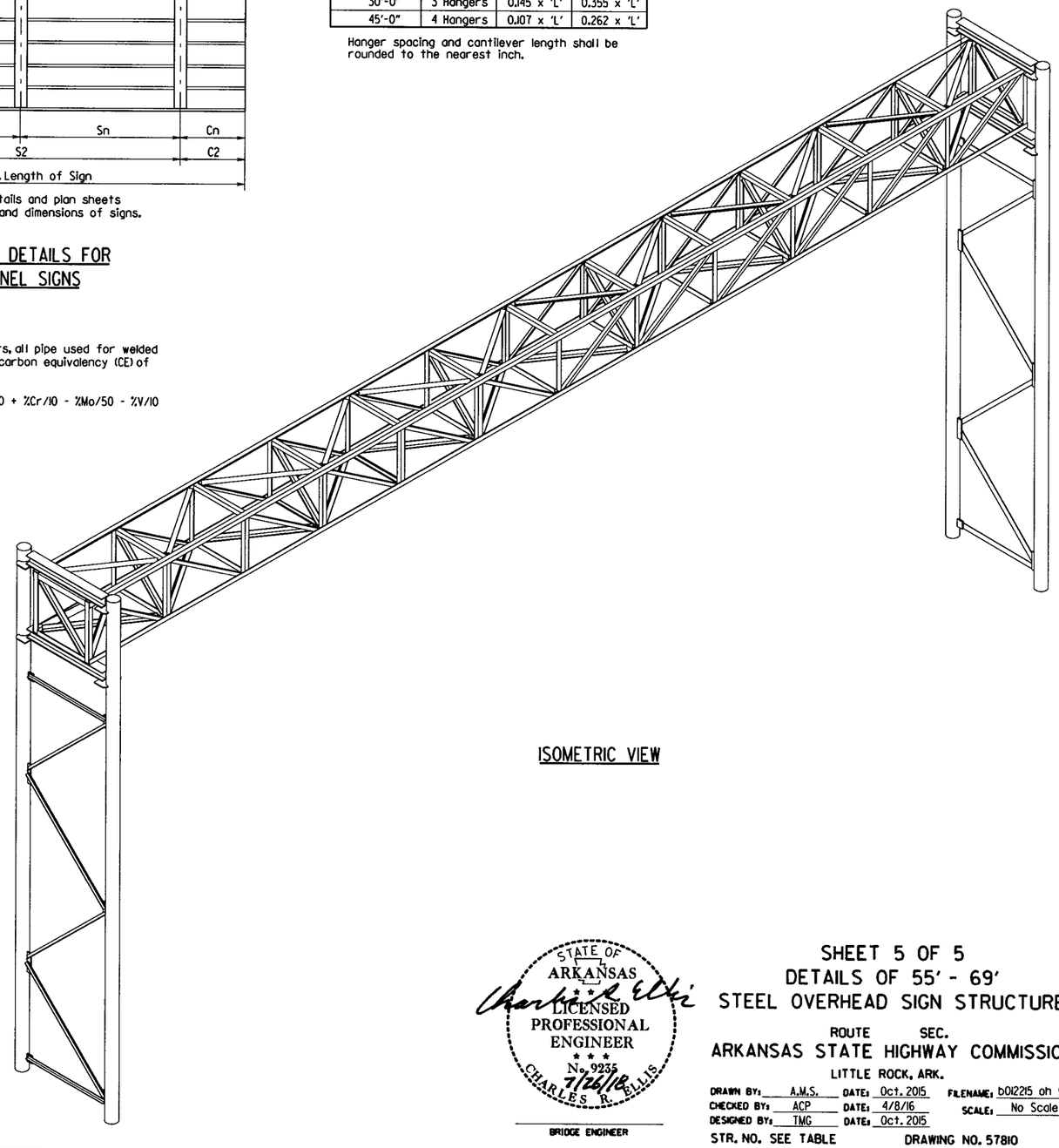
[1] In addition to material requirements, all pipe used for welded applications shall have a maximum carbon equivalency (CE) of 0.4 using the following equation:

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

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'
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
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
7/26/18

BRIDGE ENGINEER

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

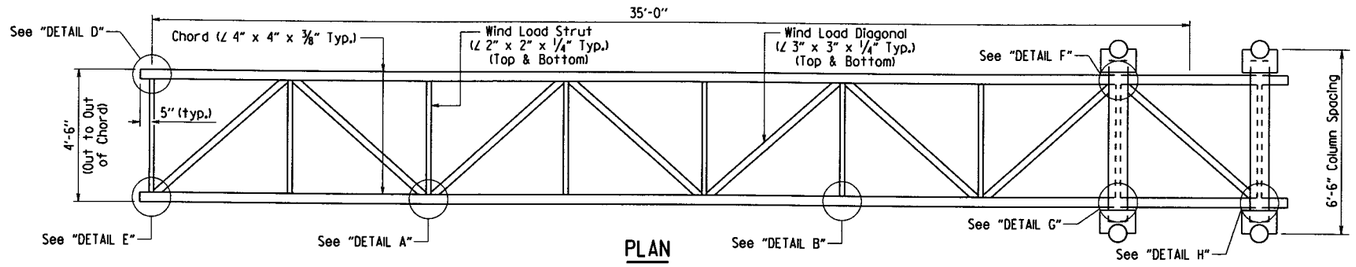
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: A.M.S. DATE: Oct. 2015 FILENAME: b012215 oh 55-69.dgn
CHECKED BY: ACP DATE: 4/8/16 SCALE: No Scale
DESIGNED BY: TMG DATE: Oct. 2015

STR. NO. SEE TABLE DRAWING NO. 57810

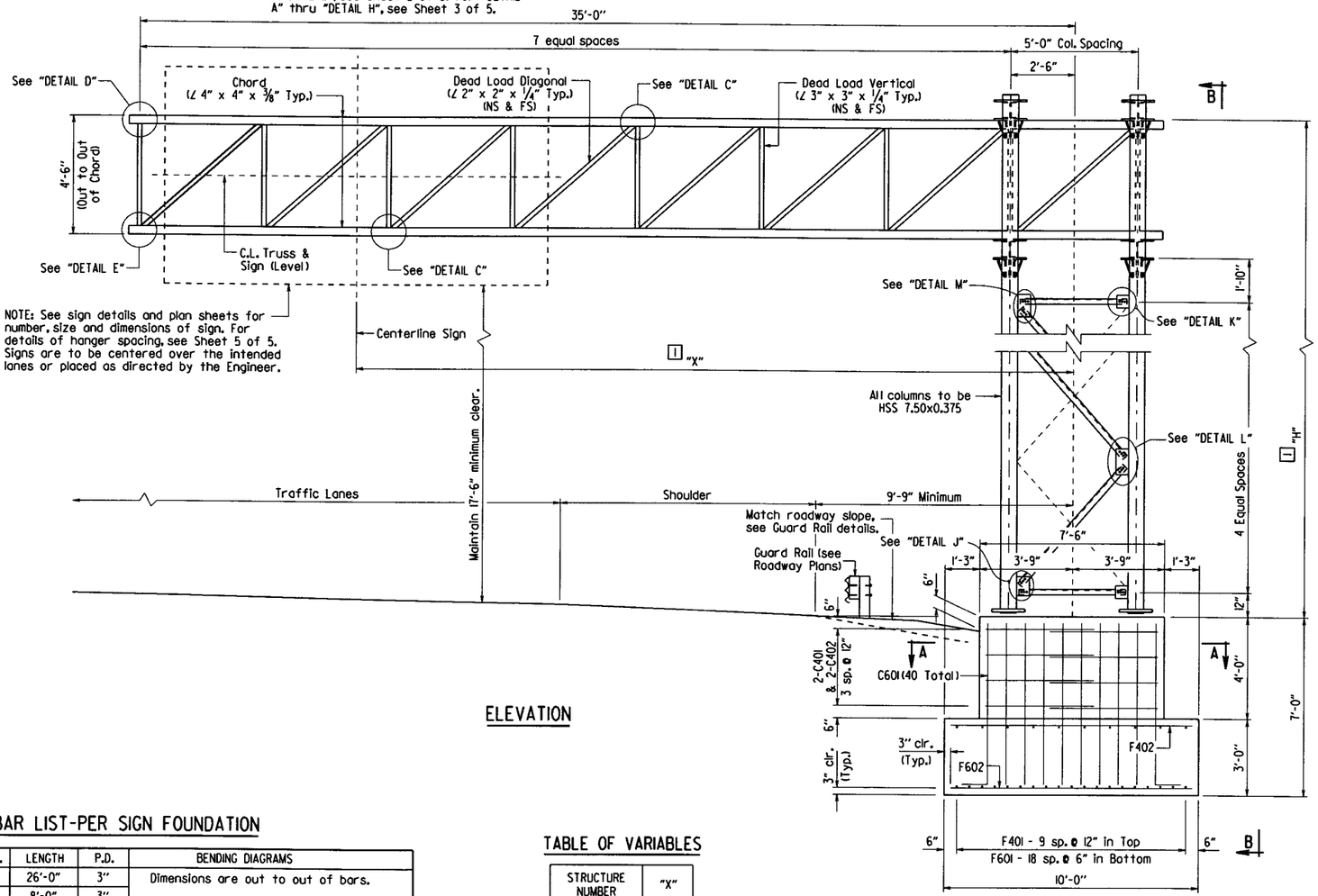
PRINT DATE: 7/26/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	176	194
				①	SEE TABLE	CANTILEVER SIGN STR.		57811



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.



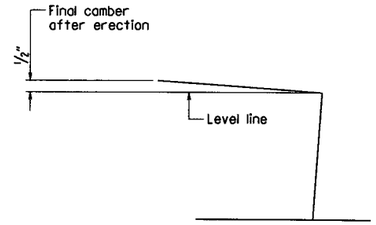
ELEVATION

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

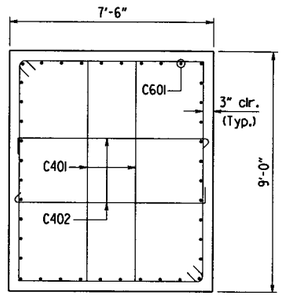
1) To verify that dimension "X" is sufficient to center the sign over the intended lane while maintaining minimum horizontal clearances.

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

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.	

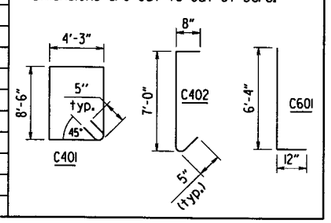


TABLE OF VARIABLES

STRUCTURE NUMBER	"X"
0C-040-17-25	21'-9"
0C-040-17-26	21'-9"
0C-040-17-27	21'-9"

TABULAR DATA BY: KDH DATE: 4-25-18

CHECKED BY: _____ DATE: _____

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
CHARLES R. ELLIS
LICENSED PROFESSIONAL ENGINEER
No. 9235
8-30-18

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: b012215 oc 35.dgn

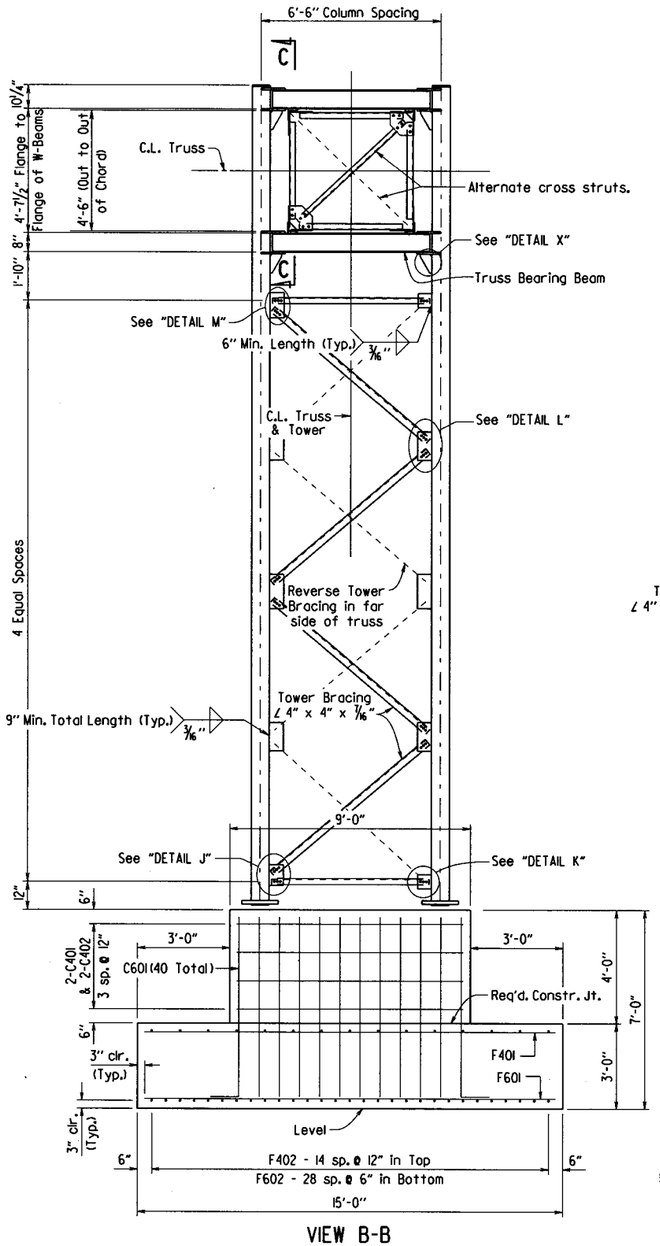
CHECKED BY: CMW DATE: 3/29/18 SCALE: No Scale

DESIGNED BY: WAC DATE: 4/18

STR. NO. SEE TABLE DRAWING NO. 57811

PRINT DATE: 8/29/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	177	194
				① SEE TABLE		CANTILEVER SIGN STR.		57812

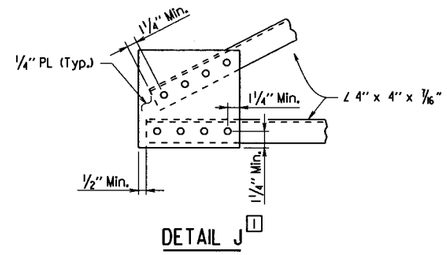


VIEW B-B

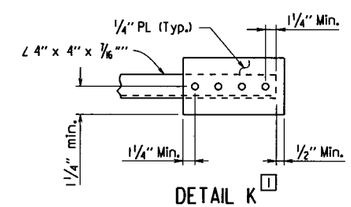
1 Bolts shall be 3/4" ø and open holes shall be 13/16" ø. Minimum center to center bolt spacing shall be 2 1/2". Dimensions shown are typical.

2 11/16" x 2" Slotted Hole in Gusset Plate and Chord Angle. Use plate washer on Gusset plate side. 11/16" ø holes in 3/4" shim plate and beam flange.

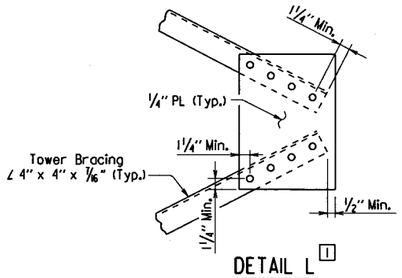
3 11/16" ø holes at top and bottom flanges of W 8 x 31.



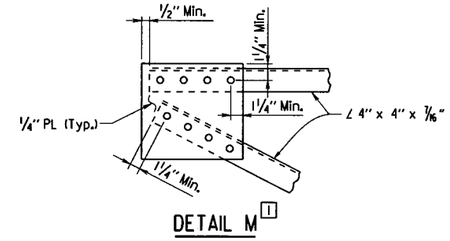
DETAIL J 1



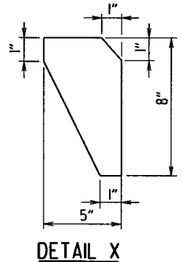
DETAIL K 1



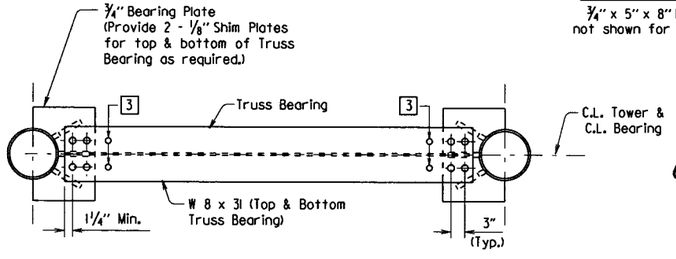
DETAIL L 1



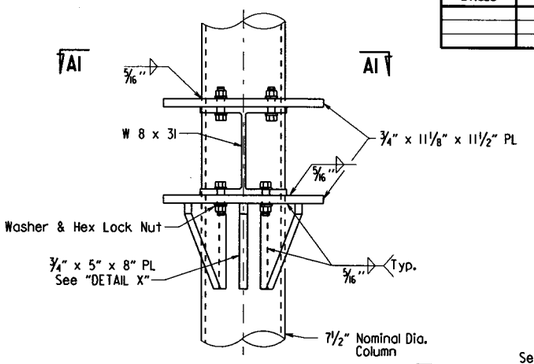
DETAIL M 1



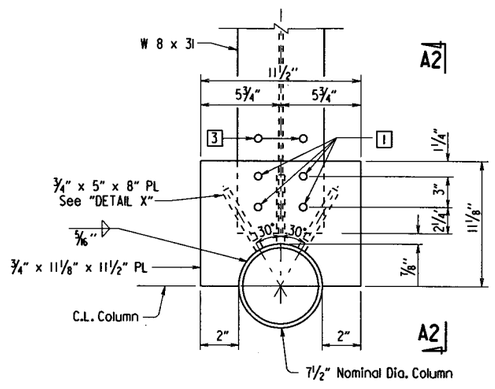
DETAIL X



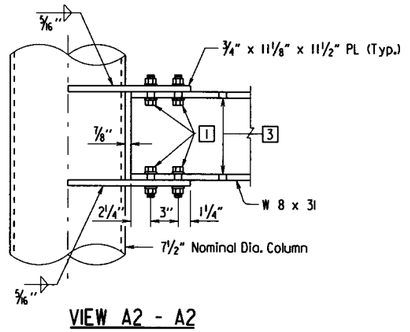
PLAN AT TRUSS BEARING



DETAIL - TRUSS BEARING SUPPORT 1

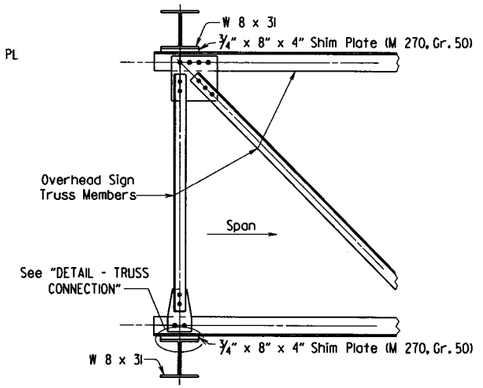


VIEW A1 - A1

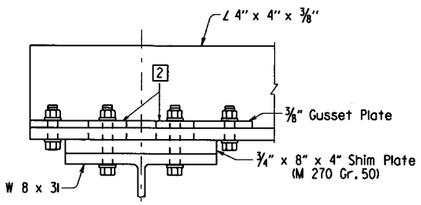


VIEW A2 - A2

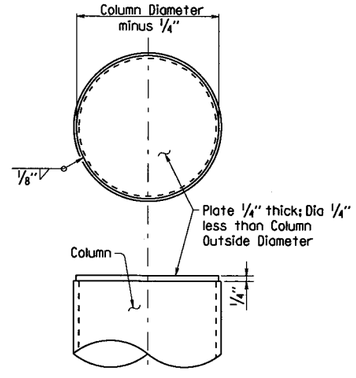
3/4" x 5" x 8" Plate not shown for clarity



VIEW C-C



DETAIL - TRUSS CONNECTION



END CAP DETAIL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
9/18/18
CHARLES R. ELLIS
BRIDGE ENGINEER

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

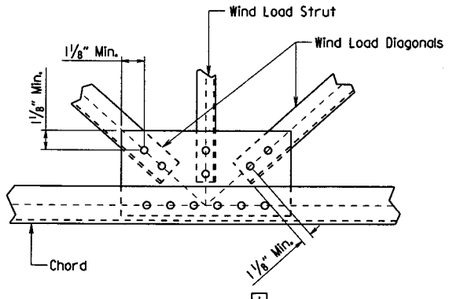
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

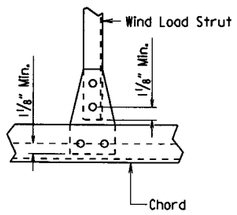
DRAWN BY: CMW DATE: 2/10/2015 FILENAME: b012215 oc 35.dgn
CHECKED BY: CMW DATE: 9/18/18 SCALE: No Scale
DESIGNED BY: JAC DATE: 7/12
STR. NO. SEE TABLE DRAWING NO. 57812

PRINT DATE: 9/18/2018

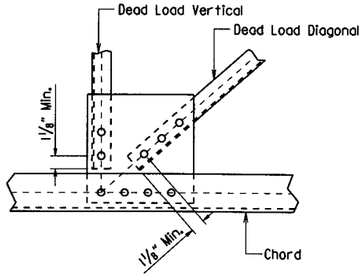
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	178	194
				①	SEE TABLE	CANTILEVER SIGN STR.		57813



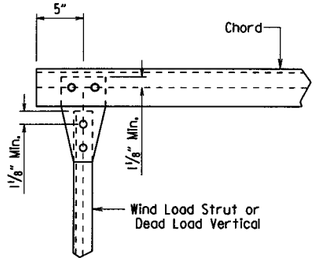
DETAIL A [1]



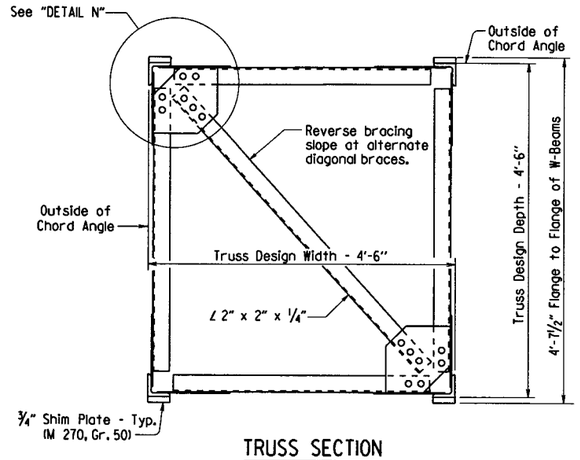
DETAIL B [1]



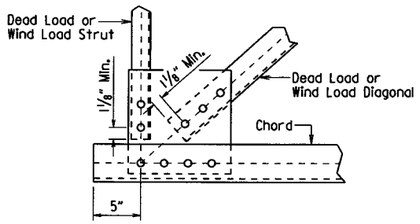
DETAIL C [1]



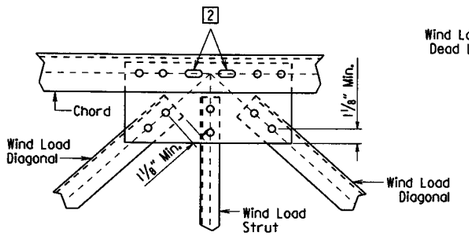
DETAIL D [1]



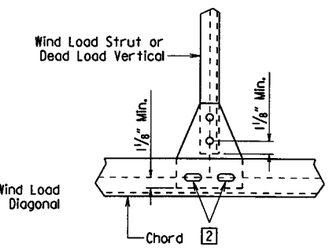
TRUSS SECTION



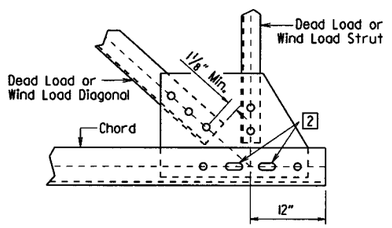
DETAIL E [1]



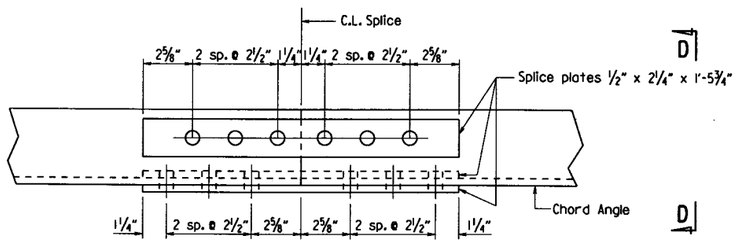
DETAIL F [1]



DETAIL G [1]

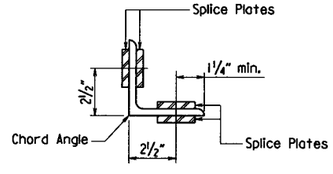


DETAIL H [1]

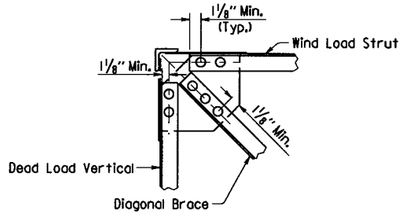


Note: Chord angles may be spliced in convenient lengths for galvanizing and sign placement.

CHORD SPLICE [3]



VIEW D-D



DETAIL N

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

[1] Dimensions shown are typical.

[2] 9/16" x 2" Slotted Hole in Gusset Plate and Chord Angle. Use plate washer on Gusset plate side.

[3] Bolts shall be ¾" ø Dia. and open holes shall be 13/16" ø. Minimum center to center bolt spacing shall be 2½".

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
8/31/18

BRIDGE ENGINEER

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

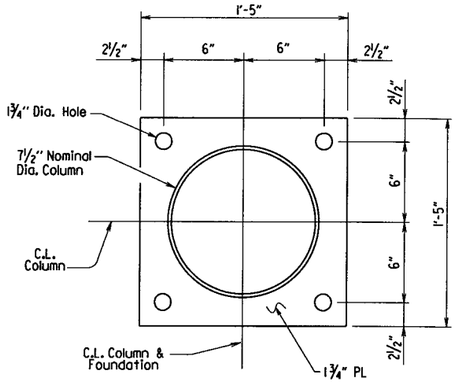
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

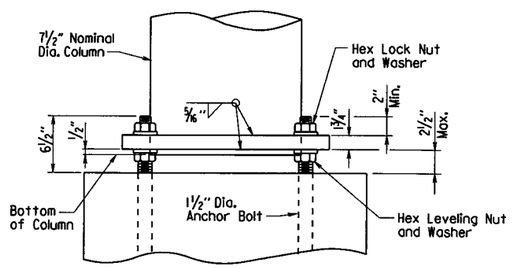
DRAWN BY: CMW DATE: 2/10/2015 FILENAME: b012215 oc 35.dgn
CHECKED BY: CMW DATE: 8/31/18 SCALE: No Scale
DESIGNED BY: WAC DATE: 4/18
STR. NO. SEE TABLE DRAWING NO. 57813

PRINT DATE: 8/31/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	179	194
				①	SEE TABLE	CANTILEVER SIGN STR.		57814

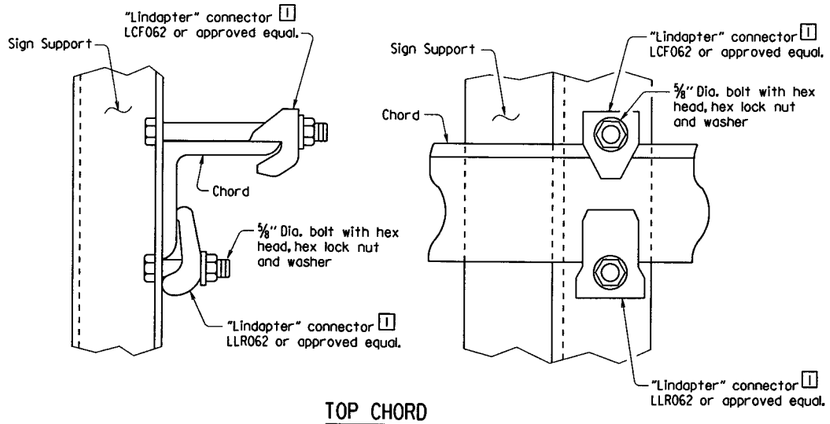


PLAN - COLUMN BASE

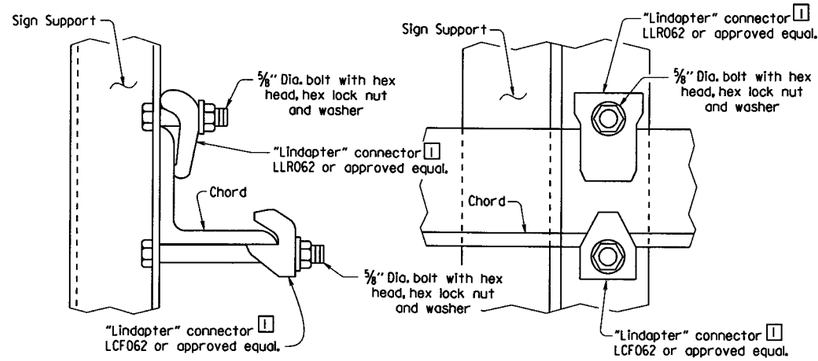


Note: Diameter of hole in base plate to be ⅛" larger than column diameter.

ELEVATION - COLUMN BASE



TOP CHORD

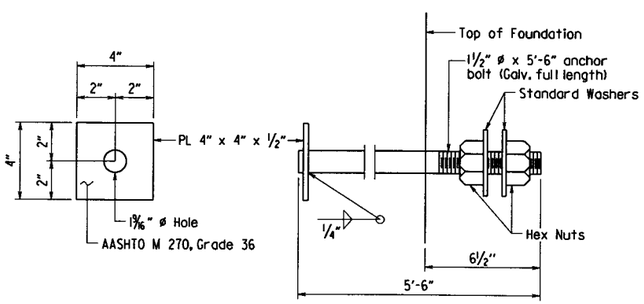


BOTTOM CHORD

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

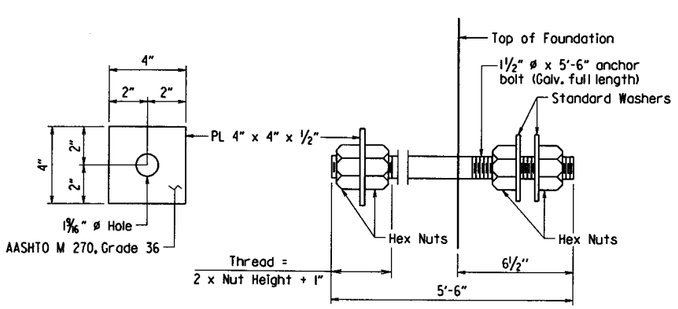
Note: Install all support connectors clear of the gusset plates and splice locations.

DETAILS OF SIGN SUPPORT CONNECTION TO TRUSS



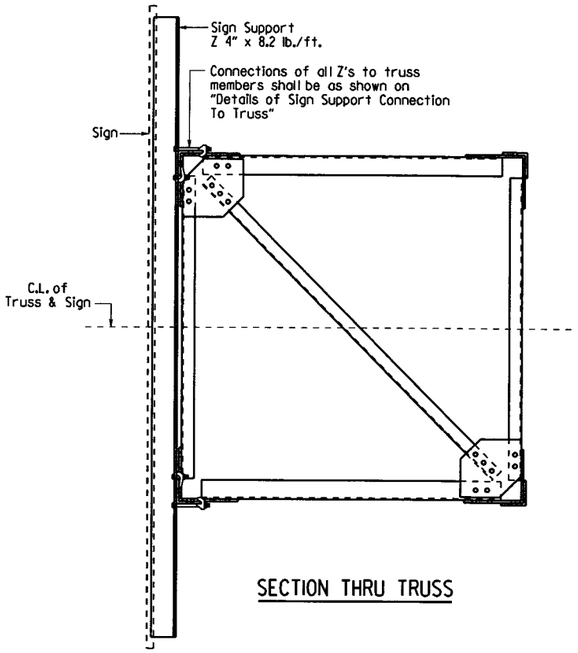
Anchor bolts shall comply with AASHTO M 314, Grade 55, with Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts and washers for bolts shall be as specified in Subsection 807.07.

ANCHOR BOLT DETAIL

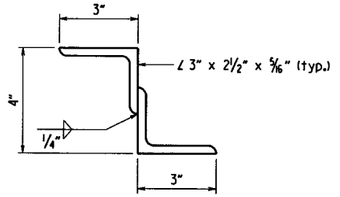


Anchor bolts shall comply with AASHTO M 314, Grade 55, with Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts and washers for bolts shall be as specified in Subsection 807.07.

ALTERNATE ANCHOR BOLT DETAIL



SECTION THRU TRUSS



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

DETAILS OF ALTERNATE Z SUPPORT

STATE OF ARKANSAS
CHARLES R. ELLIS
LICENSED PROFESSIONAL ENGINEER
No. 9235
8-30-18

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: b012215 oc 35.dgn
CHECKED BY: CMW DATE: 3/29/18 SCALE: No Scale
DESIGNED BY: WAC DATE: 4/18

STR. NO. SEE TABLE DRAWING NO. 57814

PRINT DATE: 8/29/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	180	191
				①	SEE TABLE	CANTILEVER SIGN STR.		57815

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:	AASHTO M 270, Grade 36 (Fy = 36,000 psi)
Plate, W-Section:	AASHTO M 270, 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), ASTM A714, Class 2, Grade II, Type E or S (Fy = 50,000 psi)
Z-Shapes:	AASHTO M 270, Grade 36 (Fy = 36,000 psi)
Shim Plates:	ASTM A1011, SS, Grade 36, Type 2, or Grade 40
Bolts:	ASTM A325, Type 1
Locknuts - Approved Type:	Meeting or exceeding AASHTO M 292
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 Special Provision Job No. 012215 "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.

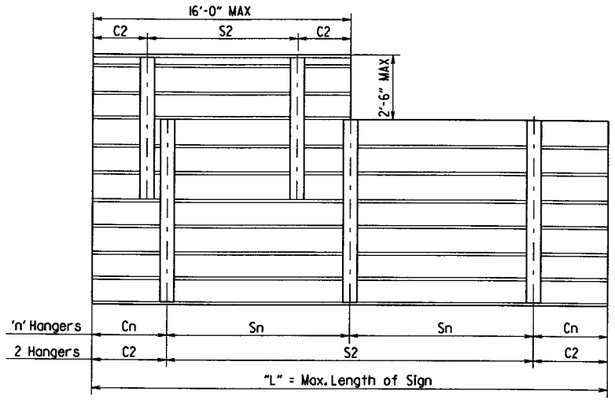
Connections shall be bolted with high-strength bolts. Unless otherwise noted, bolts shall be ⅞" diameter and open holes shall be 15/16" diameter. Bolt spacing shall be 2¼" for ⅞" diameter bolts unless otherwise noted. Bolts shall be placed with heads on the outside face of all members.

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

Lock nuts to be equipped with nylon locking inserts or other approved type locking system. Lock nuts 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 Special Provision Job 012215 "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

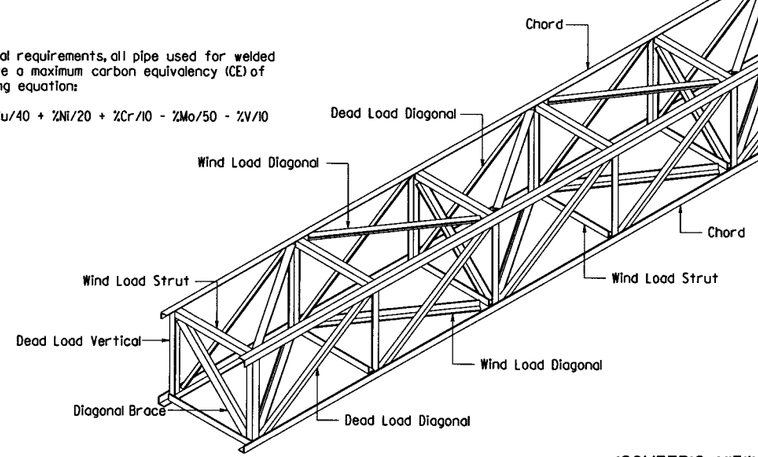
[1] In addition to material requirements, all pipe used for welded applications shall have a maximum carbon equivalency (CE) of 0.4 using the following equation:

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

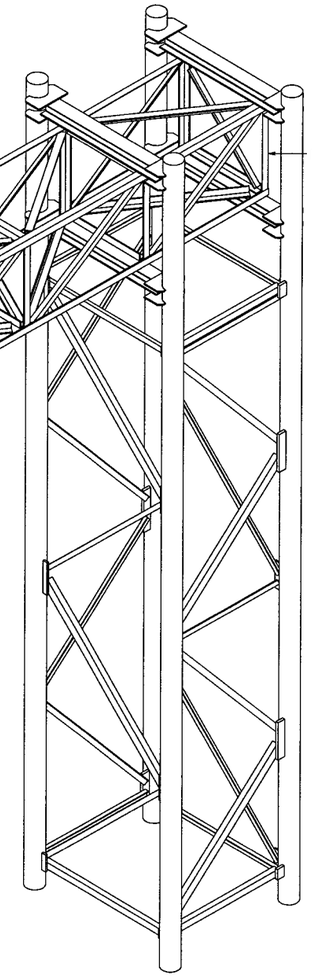
HANGER VARIABLES

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
LICENSED PROFESSIONAL ENGINEER
No. 9235
3-30-18
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.

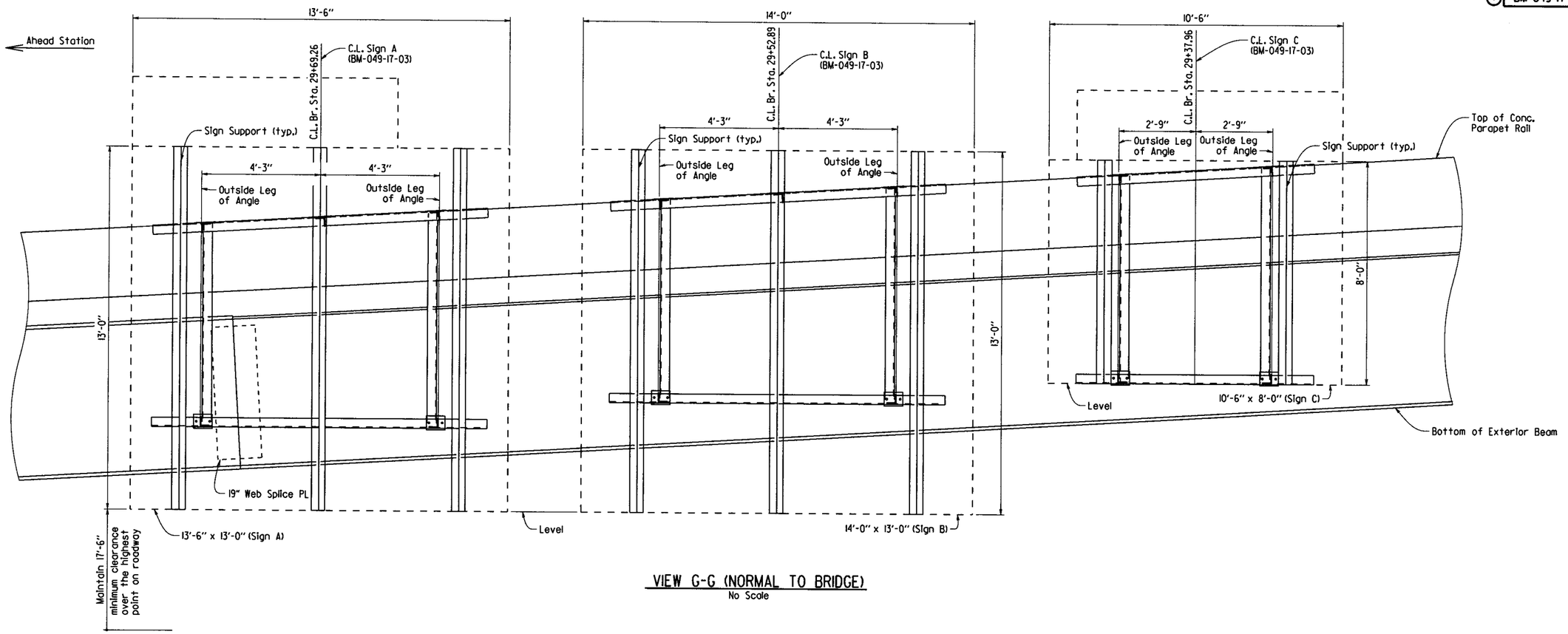
DRAWN BY: CMW DATE: 2/10/2015 FILENAME: b012215 oc 35.dgn
CHECKED BY: CMW DATE: 3/29/18 SCALE: No Scale
DESIGNED BY: WAC DATE: 4/18

STR. NO. SEE TABLE DRAWING NO. 57815

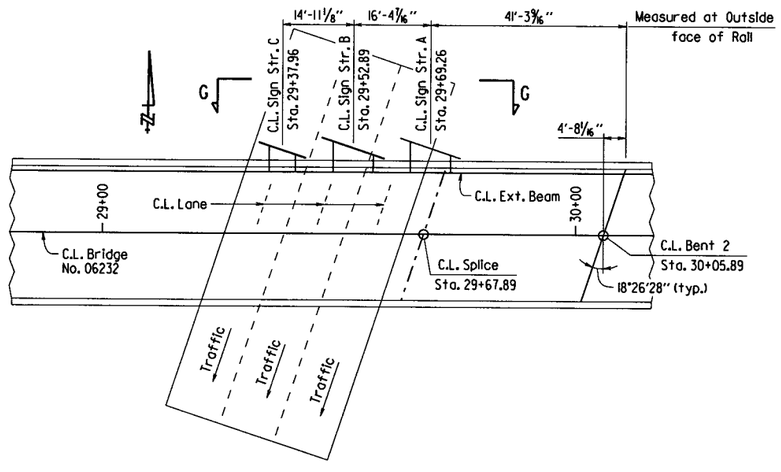
PRINT DATE: 8/29/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	181	194

(1) BM-049-17-03 - SIGN STR. - 57816



VIEW G-G (NORMAL TO BRIDGE)
No Scale



LOCATION SKETCH
1/16" = 1'-0"

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
7/26/18
BRIDGE ENGINEER

SHEET 1 OF 3
DETAILS OF SIGN STRUCTURE
BM-049-17-03

ROUTE SEC.

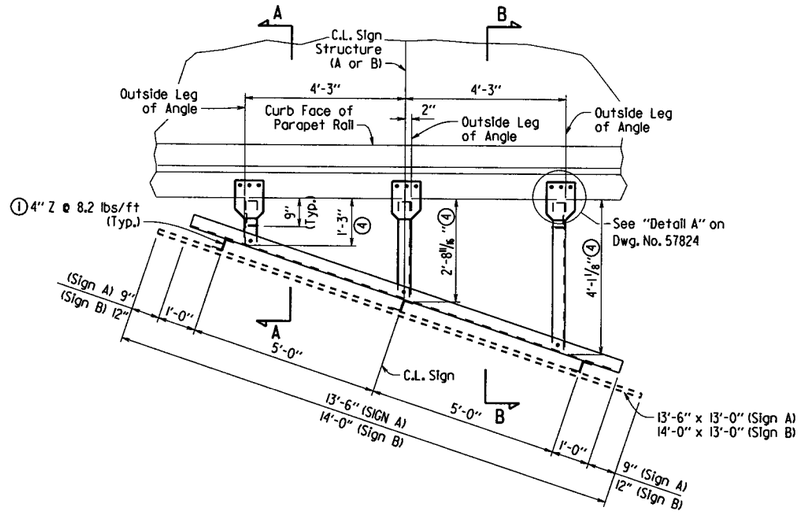
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KAP DATE: 3/20/18
CHECKED BY: SWP DATE: 7/24/18
DESIGNED BY: KAP DATE: 3/20/18
FILENAME: b012215_t1.dgn
SCALE: As Noted

STR. NO. BM-049-17-03 DRAWING NO. 57816

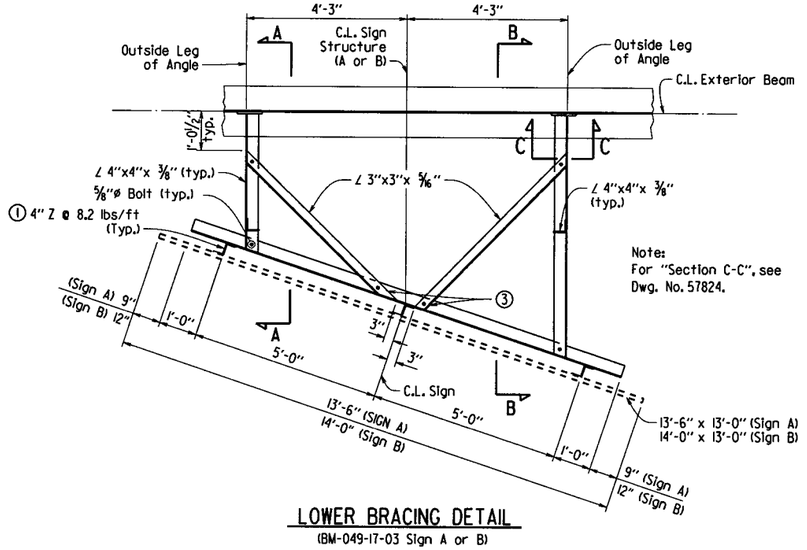
PRINT DATE: 7/25/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	182	194
				① BM-049-17-03 - SIGN STR. - 57817				



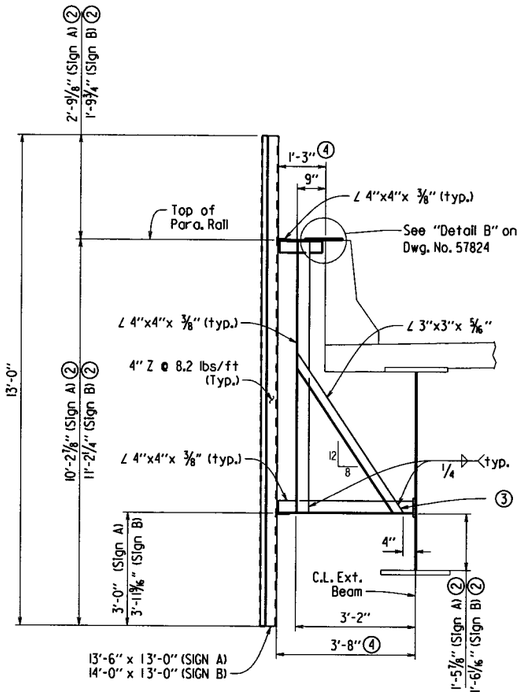
UPPER BRACING DETAIL

(BM-049-17-03 Sign A or B)



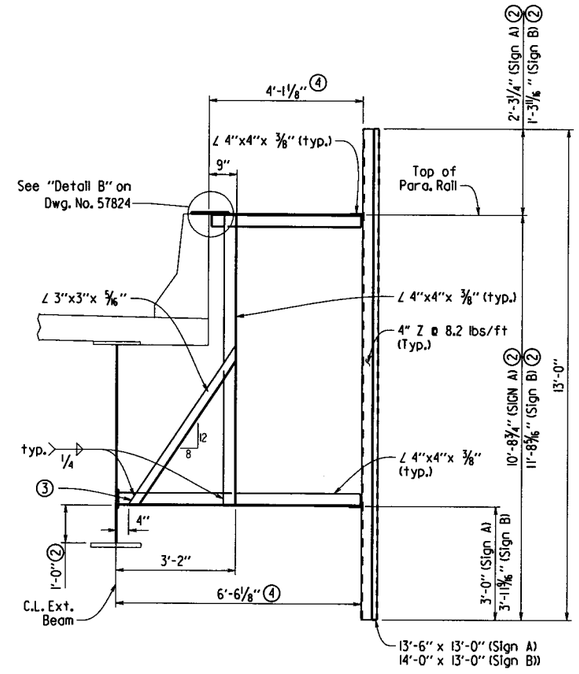
LOWER BRACING DETAIL

(BM-049-17-03 Sign A or B)



SECTION A-A

(BM-049-17-03 Sign A & B)



SECTION B-B

(BM-049-17-03 Sign A & B)

① For details of connection of sign support to top and bottom chords, see "Detail H", Dwg. No. 57824.

② Dimension varies due to slope of existing bridge. Dimension shown is taken at outside leg of angle.

③ Provide ⅜" thick steel filler plate as required.

④ Dimension shown is taken at outside leg of angle.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
7/26/18
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 2 OF 3
DETAILS OF SIGN STRUCTURE
BM-049-17-03

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

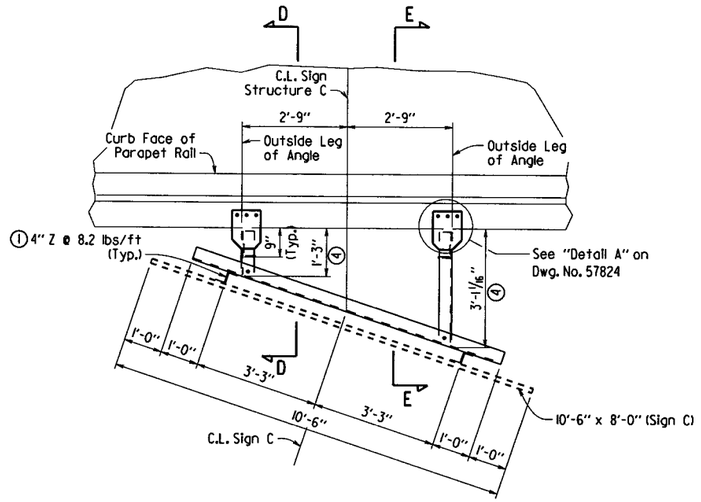
LITTLE ROCK, ARK.

DRAWN BY: KAP DATE: 3/20/18 FILENAME: b012215_tl.dgn
CHECKED BY: SWP DATE: 7/24/18 SCALE: 1/2"=1'-0"
DESIGNED BY: KAP DATE: 3/20/18

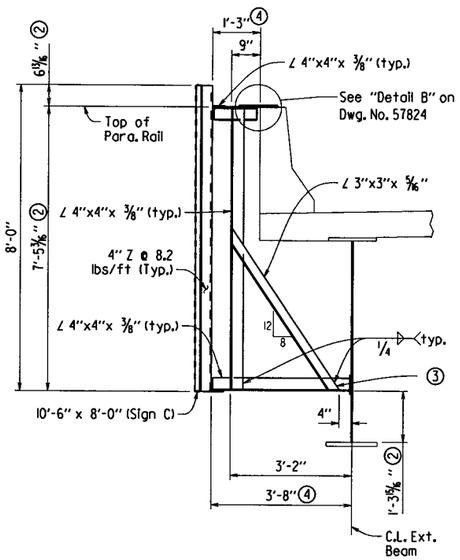
STR. NO. BM-049-17-03 DRAWING NO. 57817

PRINT DATE: 7/25/2018

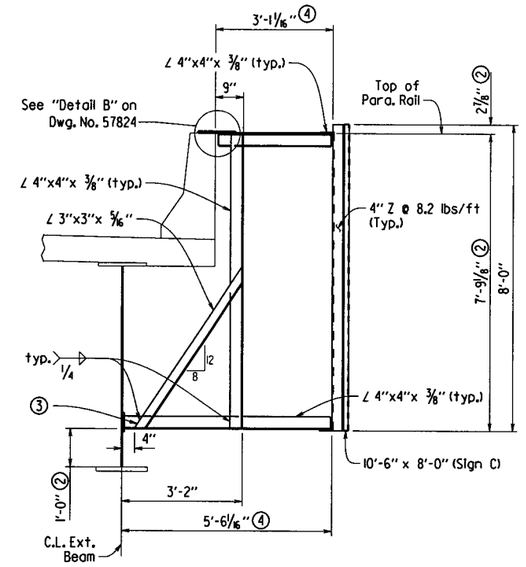
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	183	194
				(1) BM-049-17-03 - SIGN STR. - 57818				



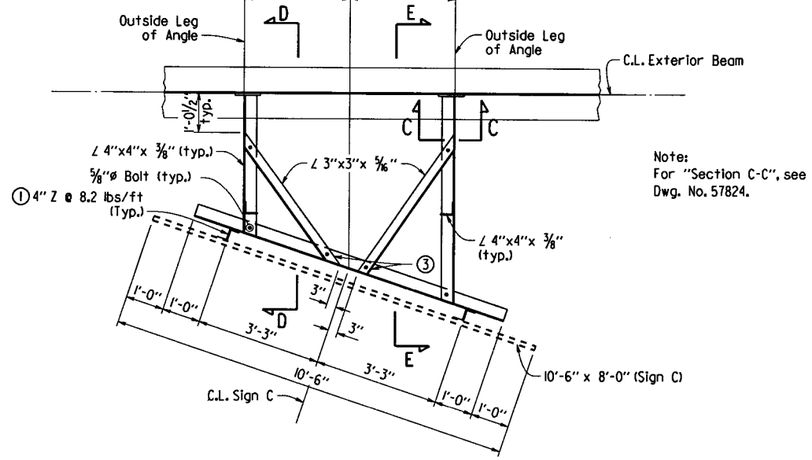
UPPER BRACING DETAIL
(BM-049-17-03 Sign C)



SECTION D-D
(BM-049-17-03 Sign C)



SECTION E-E
(BM-049-17-03 Sign C)



Note:
For "Section C-C", see Dwg. No. 57824.

LOWER BRACING DETAIL
(BM-049-17-03 Sign C)

(1) For details of connection of sign support to top and bottom chords, see "Detail H", Dwg. No. 57824.

(2) Dimension varies due to slope of existing bridge. Dimension shown is taken at outside leg of angle.

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

(4) Dimension shown is taken at outside leg of angle.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
7/26/18
BRIDGE ENGINEER

SHEET 3 OF 3
DETAILS OF SIGN STRUCTURE
BM-049-17-03

ROUTE SEC.

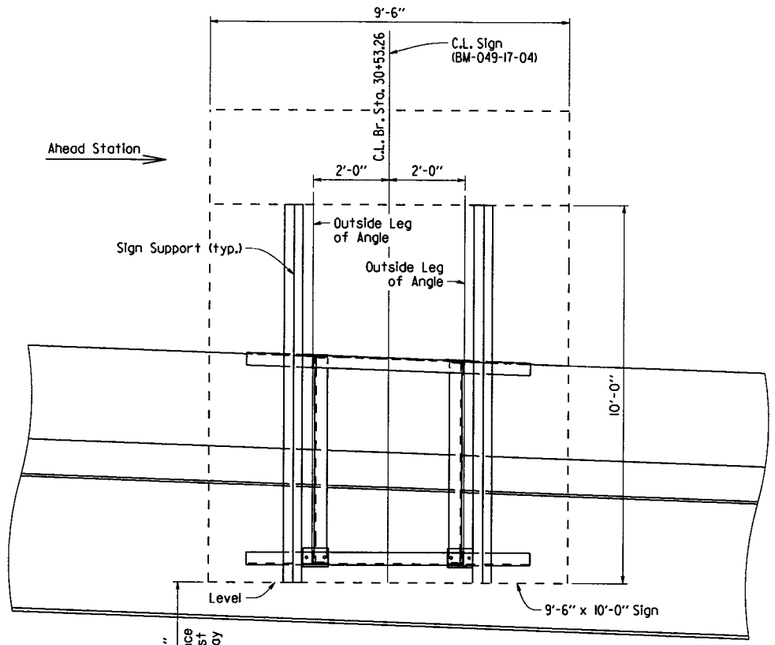
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KAP DATE: 3/20/18 FILENAME: b012215_tl.dgn
CHECKED BY: SWP DATE: 7/24/18 SCALE: 1/2"=1'-0"
DESIGNED BY: KAP DATE: 3/20/18
STR. NO. BM-049-17-03 DRAWING NO. 57818

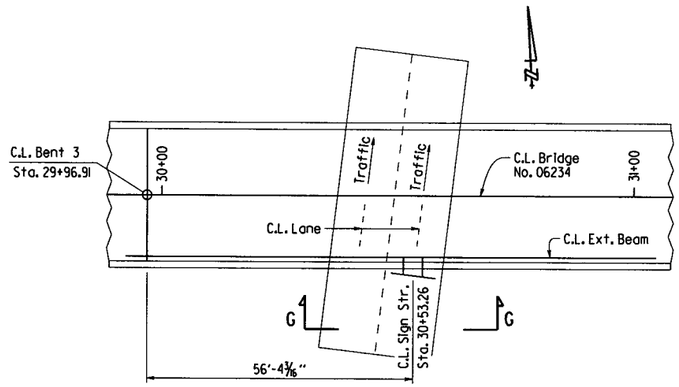
PRINT DATE: 7/25/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	184	194

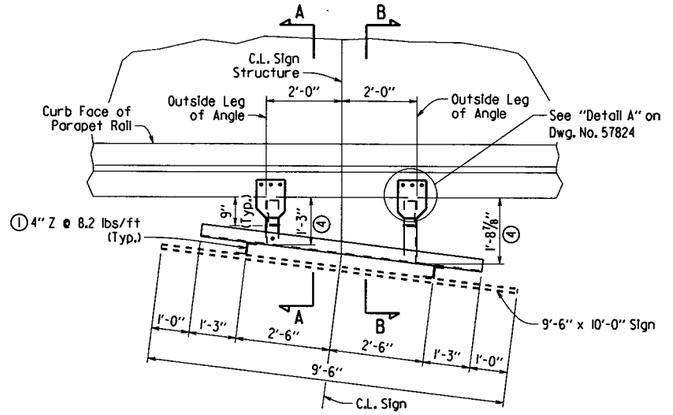
① BM-049-17-04 - SIGN STR. - 57819



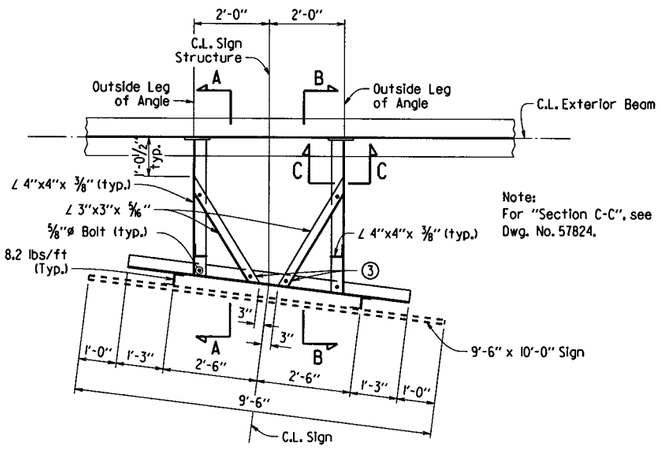
VIEW G-G (NORMAL TO BRIDGE)
No Scale



LOCATION SKETCH
1/16" = 1'-0"

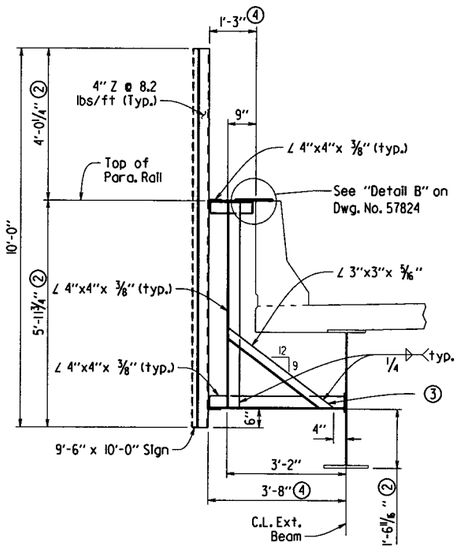


UPPER BRACING DETAIL
(BM-049-17-04)

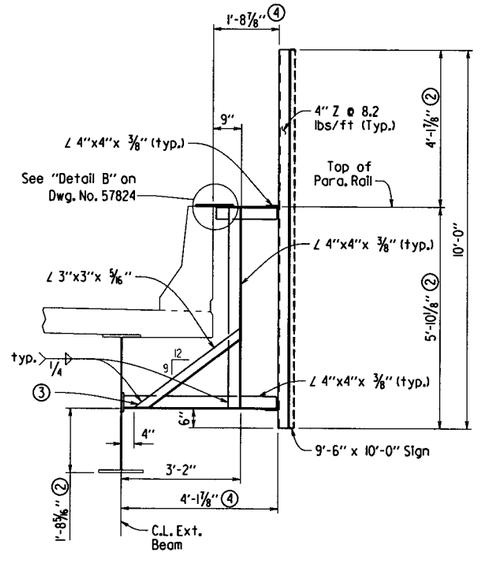


Note:
For "Section C-C", see Dwg. No. 57824.

LOWER BRACING DETAIL
(BM-049-17-04)



SECTION A-A
(BM-049-17-04)



SECTION B-B
(BM-049-17-04)

① For details of connection of sign support to top and bottom chords, see "Detail H", Dwg. No. 57824.

② Dimension varies due to slope of existing bridge. Dimension shown is taken at outside leg of angle.

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

④ Dimension shown is taken at outside leg of angle.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
7/26/18

BRIDGE ENGINEER

DETAILS OF SIGN STRUCTURE BM-049-17-04

ROUTE SEC.

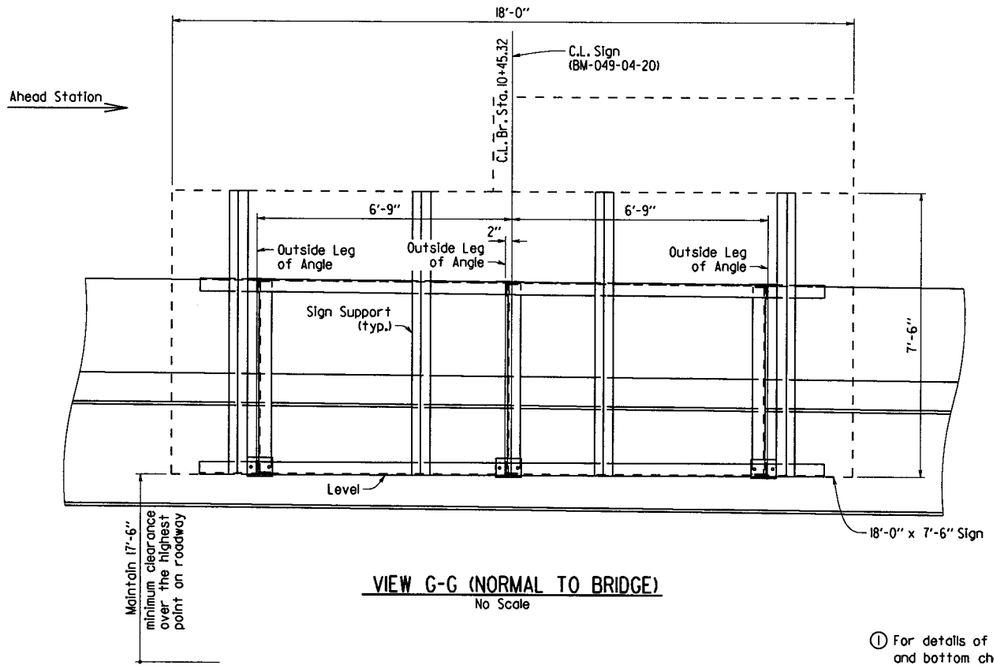
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KAP DATE: 3/16/18 FILENAME: b012215_t1.dgn
CHECKED BY: SWP DATE: 7/24/18 SCALE: 1/2"=1'-0"
DESIGNED BY: KAP DATE: 3/16/18

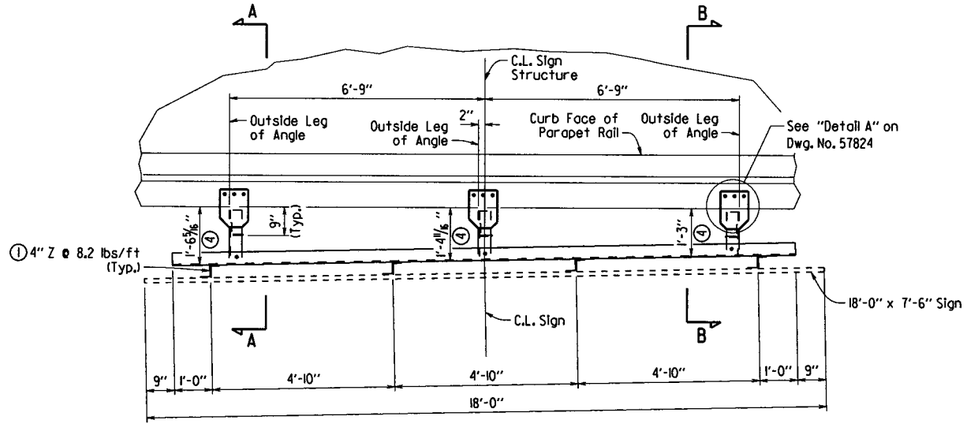
STR. NO. BM-049-17-04 DRAWING NO. 57819

PRINT DATE: 7/25/2018

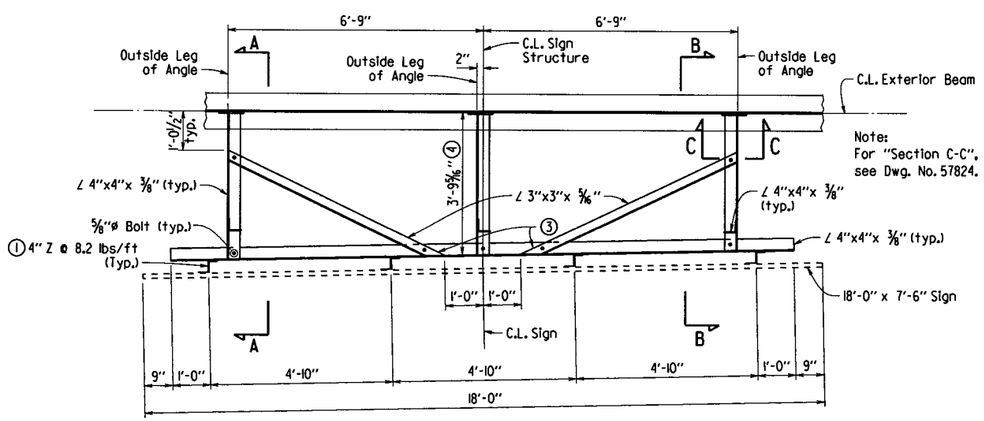
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	185	194
				① BM-049-04-20 - SIGN STR. - 57820				



VIEW G-G (NORMAL TO BRIDGE)
No Scale



UPPER BRACING DETAIL
(BM-049-04-20)



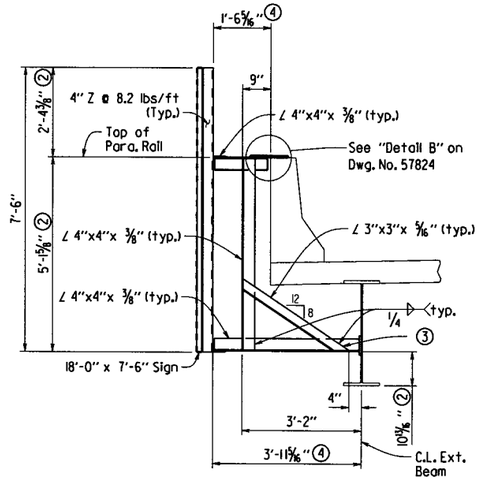
LOWER BRACING DETAIL
(BM-049-04-20)

① For details of connection of sign support to top and bottom chords, see "Detail H", Dwg. No. 57824.

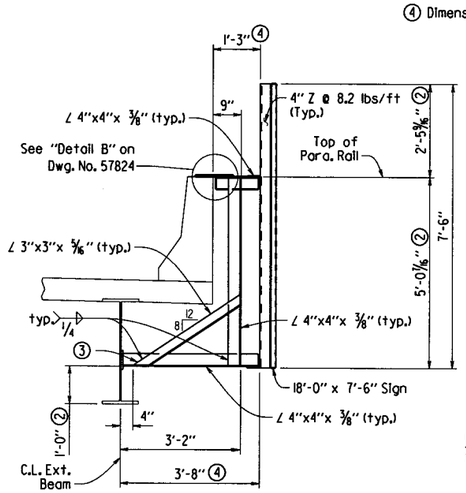
② Dimension varies due to slope of existing bridge. Dimension shown is taken at outside leg of angle.

③ Provide ⅜" thick steel filler plate as required.

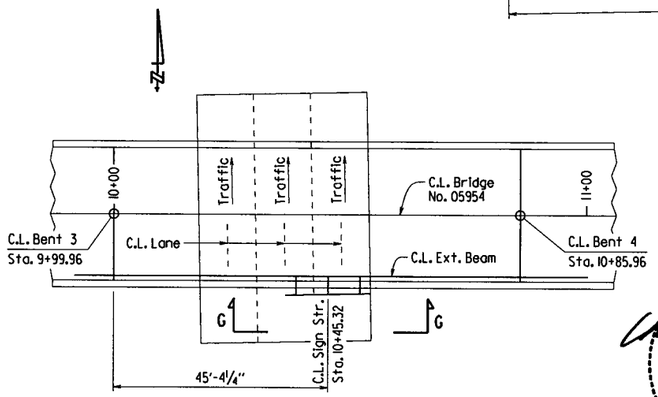
④ Dimension shown is taken at outside leg of angle.



SECTION A-A
(BM-049-04-20)



SECTION B-B
(BM-049-04-20)



LOCATION SKETCH
1/16" = 1'-0"

STATE OF ARKANSAS
Charles R Ellis
LICENSED PROFESSIONAL ENGINEER
No. 9235
7/24/18
CHARLES R. ELLIS
BRIDGE ENGINEER

DETAILS OF SIGN STRUCTURE BM-049-04-20

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

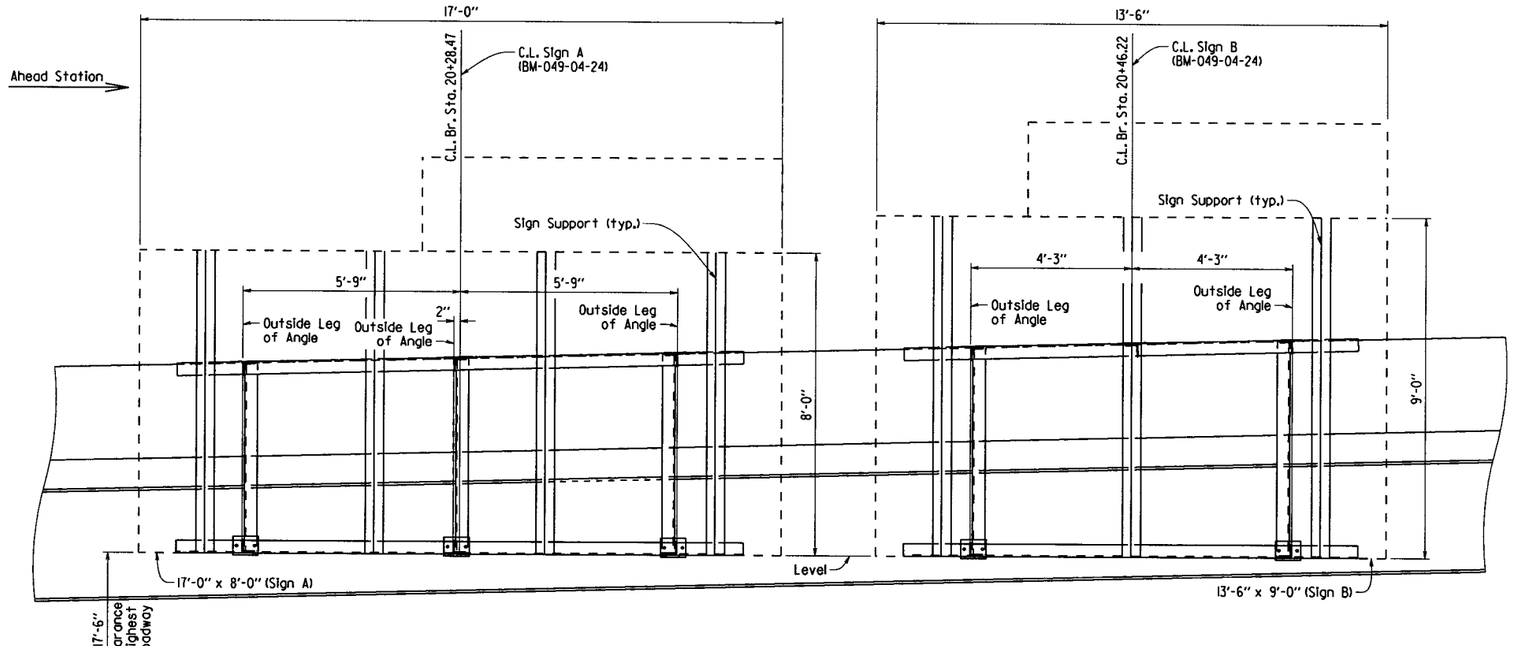
LITTLE ROCK, ARK.

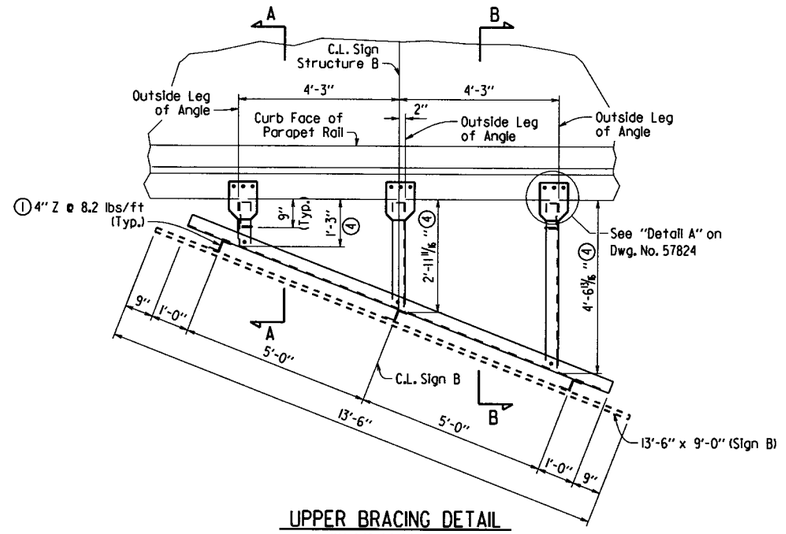
DRAWN BY: KAP DATE: 3/13/18 FILENAME: b012215_tl.dgn
CHECKED BY: SWP DATE: 7/24/18 SCALE: 1/2"=1'-0"
DESIGNED BY: KAP DATE: 3/13/18

STR. NO. BM-049-04-20 DRAWING NO. 57820

PRINT DATE: 7/25/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	180	194
				① BM-049-04-24 - SIGN STR. - 57821				





UPPER BRACING DETAIL
(BM-049-04-24 Sign B)

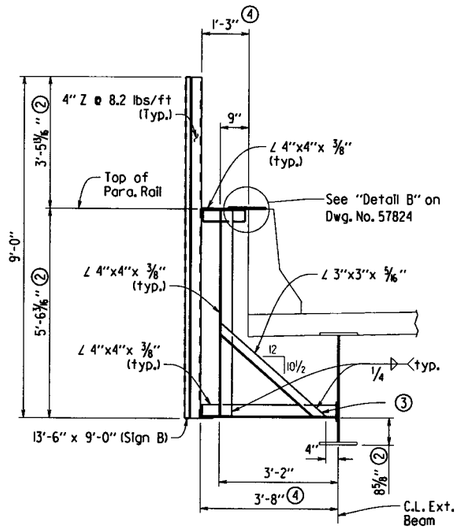
VIEW G-G (NORMAL TO BRIDGE)
No Scale

① For details of connection of sign support to top and bottom chords, see "Detail H", Dwg. No. 57824.

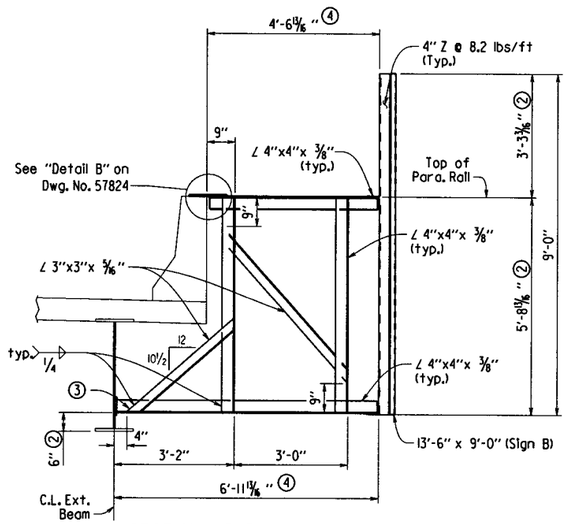
② Dimension varies due to slope of existing bridge. Dimension shown is taken at outside leg of angle.

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

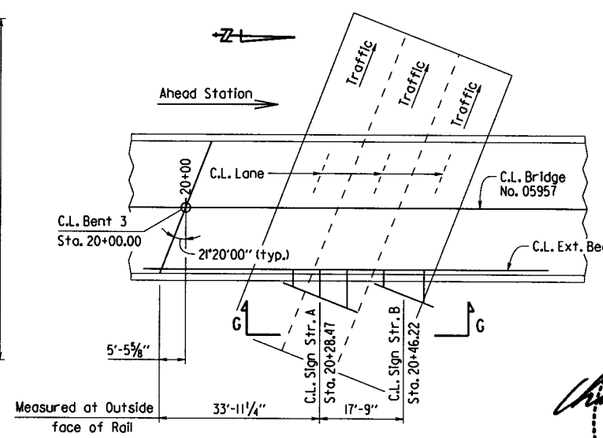
④ Dimension shown is taken at outside leg of angle.



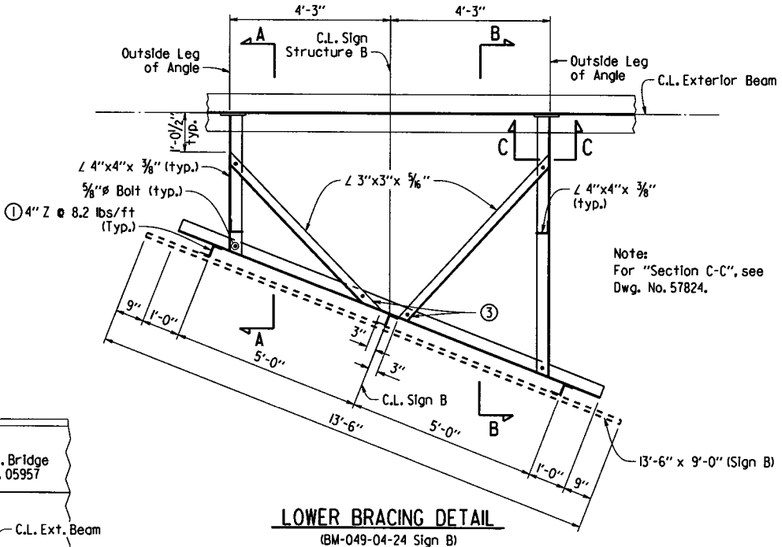
SECTION A-A
(BM-049-04-24 Sign B)



SECTION B-B
(BM-049-04-24 Sign B)



LOCATION SKETCH
1/16" = 1'-0"



LOWER BRACING DETAIL
(BM-049-04-24 Sign B)

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
7/26/18
BRIDGE ENGINEER

SHEET 1 OF 2
DETAILS OF SIGN STRUCTURE
BM-049-04-24

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

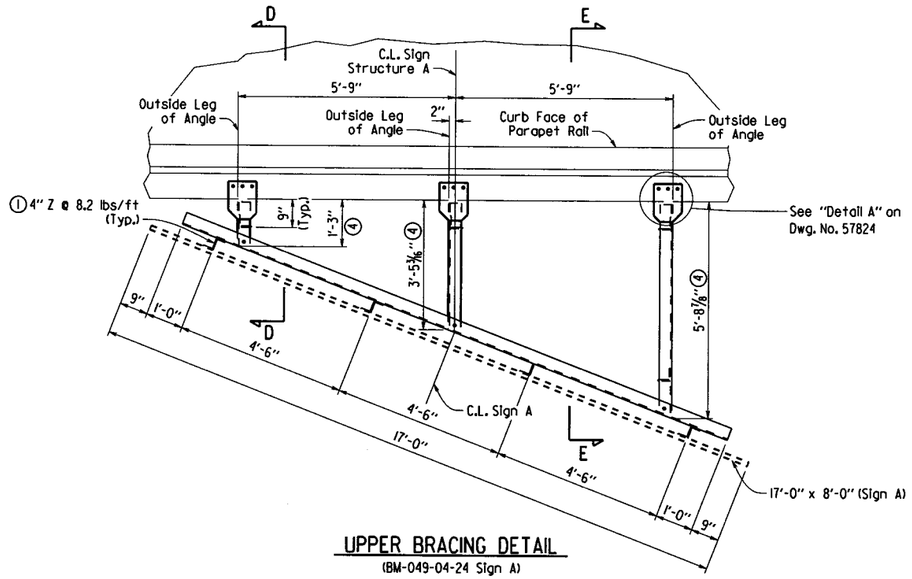
DRAWN BY: KAP DATE: 3/15/18
CHECKED BY: SWP DATE: 7/26/18
DESIGNED BY: KAP DATE: 3/15/18
FILENAME: b012215_tl.dgn
SCALE: 1/2"=1'-0"

STR. NO. BM-049-04-24 DRAWING NO. 57821

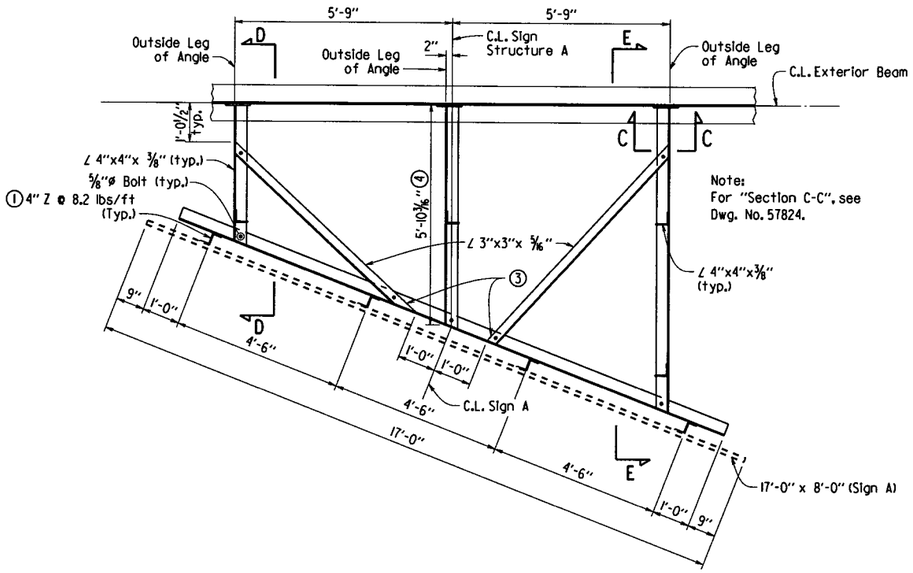
PRINT DATE: 7/25/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	187	194

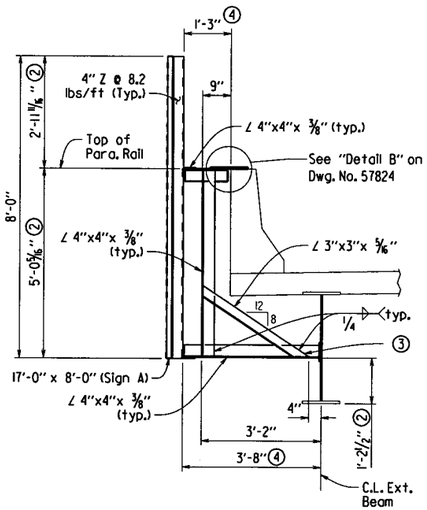
(1) BM-049-04-24 - SIGN STR. - 57822



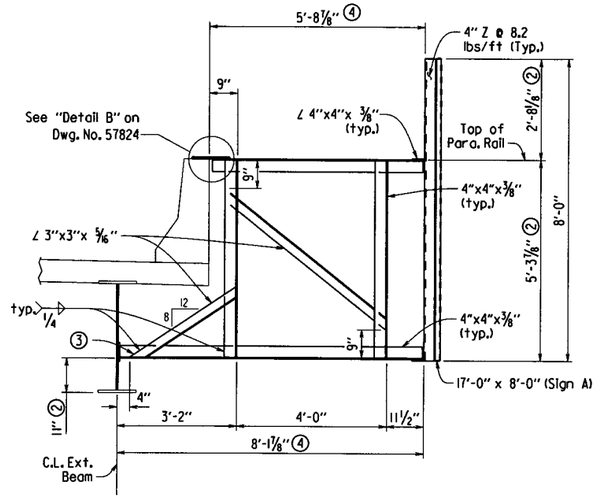
UPPER BRACING DETAIL
(BM-049-04-24 Sign A)



LOWER BRACING DETAIL
(BM-049-04-24 Sign A)



SECTION D-D
(BM-049-04-24 Sign A)



SECTION E-E
(BM-049-04-24 Sign A)

(1) For details of connection of sign support to top and bottom chords, see "Detail H", Dwg. No. 57824.

(2) Dimension varies due to slope of existing bridge. Dimension shown is taken at outside leg of angle.

(3) Provide ⅜" thick steel filler plate as required.

(4) Dimension shown is taken at outside leg of angle.

STATE OF ARKANSAS
Charles R. Ellis
LICENSED PROFESSIONAL ENGINEER
No. 9235
7/26/18
CHARLES R. ELLIS

BRIDGE ENGINEER

SHEET 2 OF 2
DETAILS OF SIGN STRUCTURE
BM-049-04-24

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

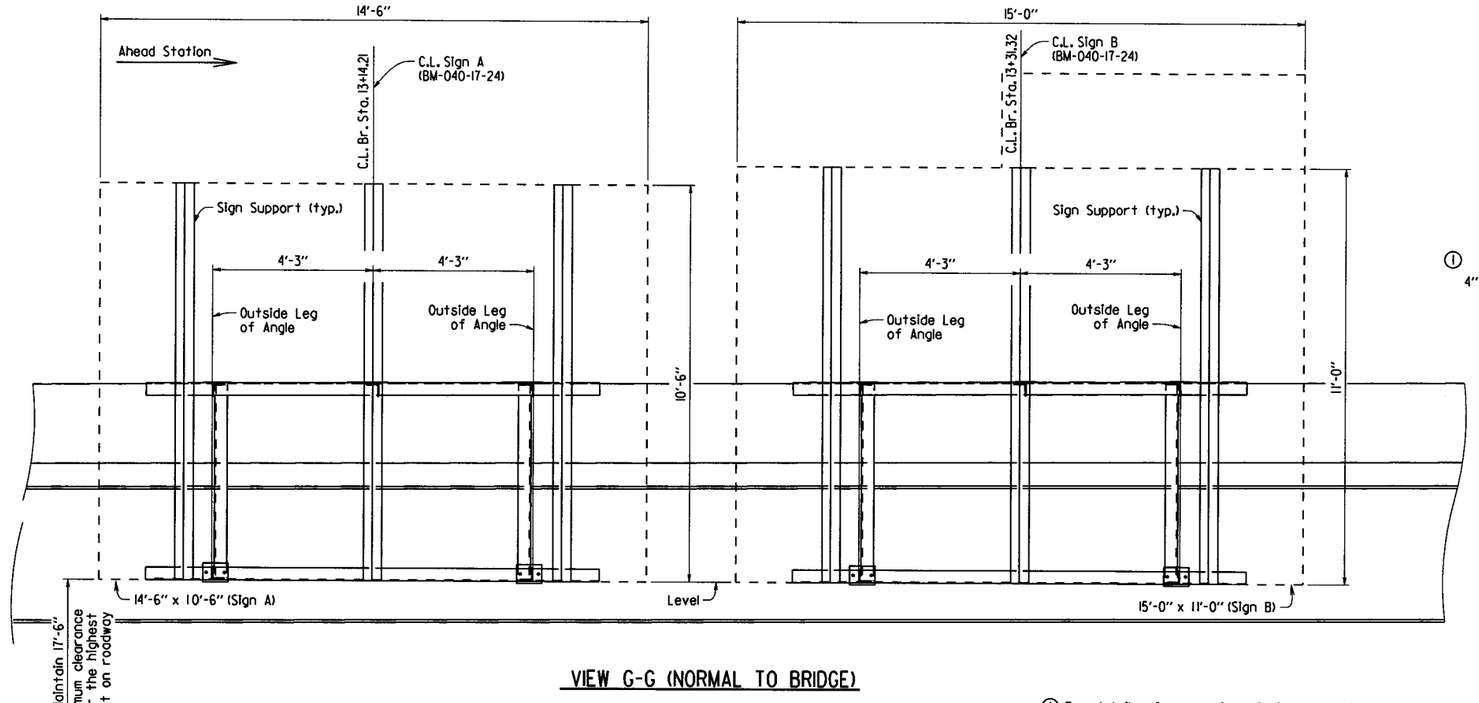
DRAWN BY: KAP DATE: 3/15/18
CHECKED BY: SWP DATE: 7/24/18
DESIGNED BY: KAP DATE: 3/15/18
FILENAME: b012215_t1.dgn
SCALE: 1/2"=1'-0"

STR. NO. BM-049-04-24 DRAWING NO. 57822

PRINT DATE: 7/25/2018

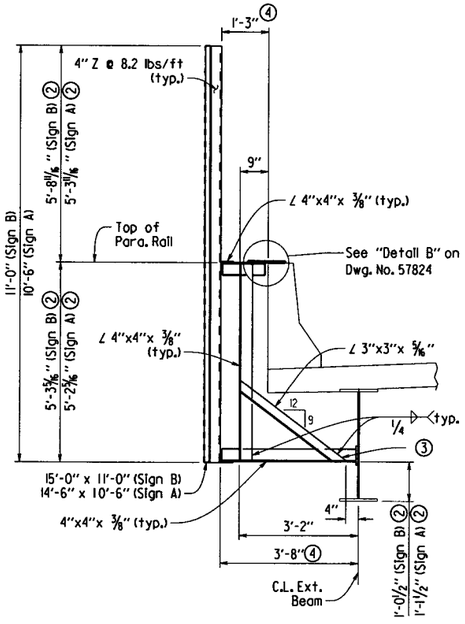
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	189	196

① BM-040-17-24 - SIGN STR. - 57823

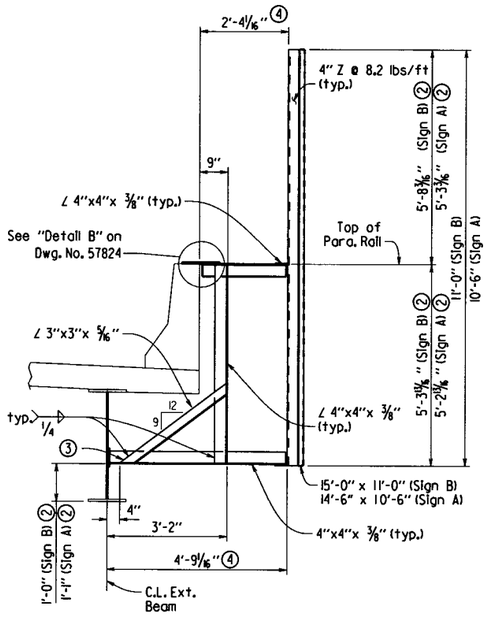


VIEW G-G (NORMAL TO BRIDGE)

No Scale



SECTION A-A
(BM-040-17-24 Sign A & B)



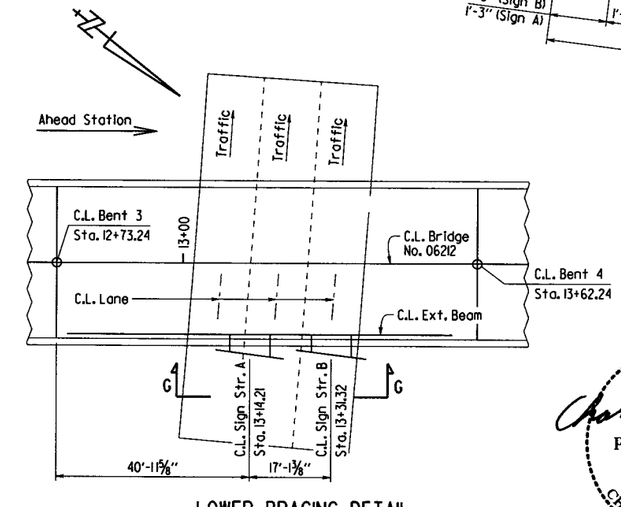
SECTION B-B
(BM-040-17-24 Sign A & B)

① For details of connection of sign support to top and bottom chords, see "Detail H", Dwg. No. 57824.

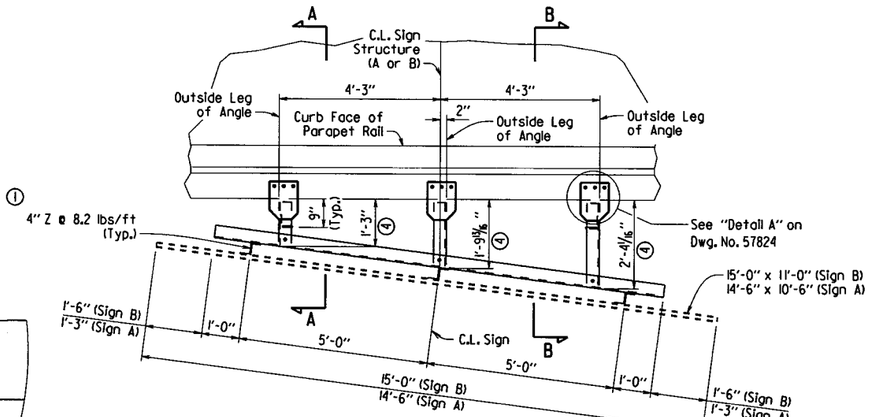
② Dimension varies due to slope of existing bridge. Dimension shown is taken at outside leg of angle.

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

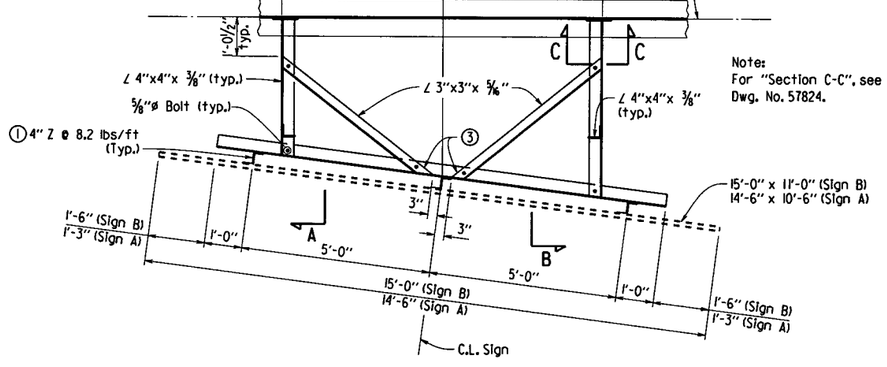
④ Dimension shown is taken at outside leg of angle.



LOWER BRACING DETAIL
1/16" = 1'-0"



UPPER BRACING DETAIL
(BM-040-17-24 Sign A & B)



LOWER BRACING DETAIL
(BM-040-17-24 Sign A & B)

Note:
For "Section C-C", see Dwg. No. 57824.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
7/26/18
BRIDGE ENGINEER

DETAILS OF SIGN STRUCTURE BM-040-17-24

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KAP DATE: 3/19/18
CHECKED BY: SWP DATE: 7/24/18
DESIGNED BY: KAP DATE: 3/19/18
FILENAME: b012215_t1.dgn
SCALE: 1/2"=1'-0"

STR. NO. BM-040-17-24 DRAWING NO. 57823

PRINT DATE: 7/26/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	189	194

① BM-049-17-03 - SIGN STR. - 57824
BM-049-17-04
BM-049-04-20
BM-049-04-24
BM-040-17-24

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 I

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

Angles:	AASHTO M 270, Grade 36 (Fy = 36,000 psi).
Plate:	AASHTO M 270, Grade 50 (Fy = 50,000 psi).
Z-Shapes:	AASHTO M 270, Grade 36 (Fy = 36,000 psi).
Bolts:	ASTM A325, Type 1.
Locknuts - Approved Type:	Meeting or exceeding AASHTO M 292.
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 7/8" digmeter and open holes shall be 3/4" diameter. Bolt spacing shall be 2 1/4" for 7/8" diameter bolts unless otherwise noted. Bolts shall be placed with heads on the outside face of all members.

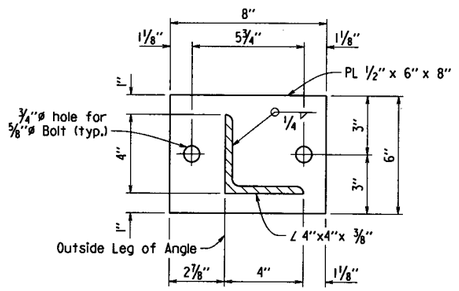
All frame bolts shall comply with ASTM A325 Type 1, galvanized according to Subsection 807.06. Nuts and washers for ASTM A325 Type 1 bolts shall be furnished and galvanized in accordance with Subsection 807.06.

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

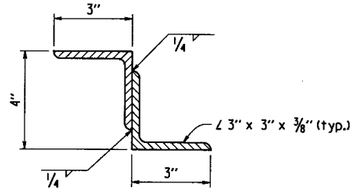
Surfaces of plates in contact with concrete or beam web shall be coated with a thick layer of asphaltic paint and allowed to dry before erection. Preformed pads 1/8" thick conforming to Section 808 may be used in lieu of asphaltic paint coating for steelplates in contact with beam web or concrete parapet.

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 existing conditions 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 epoxy grout. Open holes in steel shall be filled with properly sized and tensioned high strength bolts. Damaged structural steel coatings shall be repaired

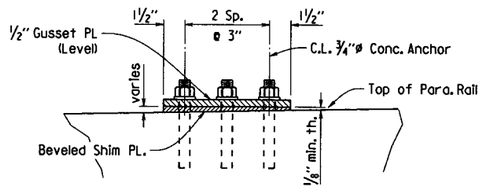


SECTION C-C
No Scale



Structural Z Sign Support may be fabricated from angles as shown.

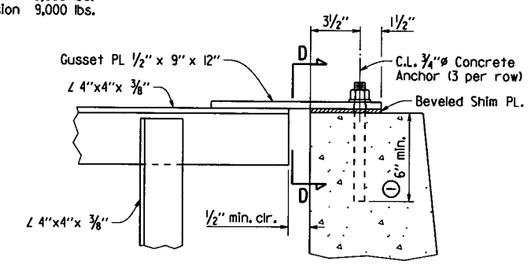
DETAILS OF ALTERNATE Z SIGN SUPPORT
No Scale



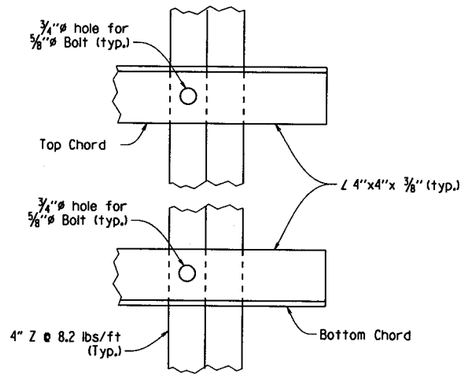
SECTION D-D
No Scale

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 capacitites:

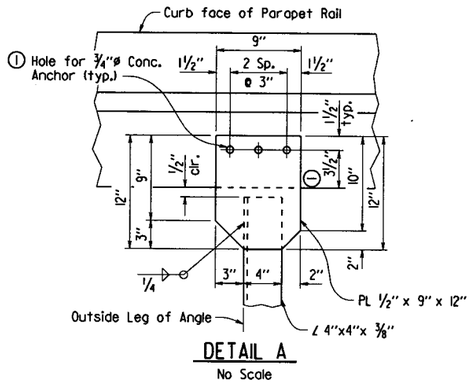
Shear 10,000 lbs.
Tension 9,000 lbs.



DETAIL B
No Scale



DETAIL H
No Scale



DETAIL A
No Scale

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
7-26-18
CHARLES R. ELLIS
BRIDGE ENGINEER

COMMON DETAILS OF BRIDGE MOUNTED SIGN STRUCTURES

ROUTE SEC.

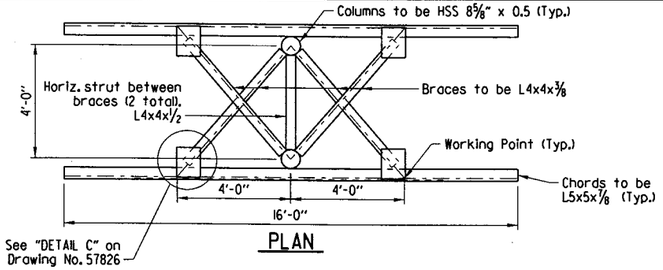
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KAP DATE: 4/20/18 FILENAME: b012215_t1.dgn
CHECKED BY: SWP DATE: 7/24/18 SCALE: No Scale
DESIGNED BY: DATE:
STR. NO. DRAWING NO. 57824

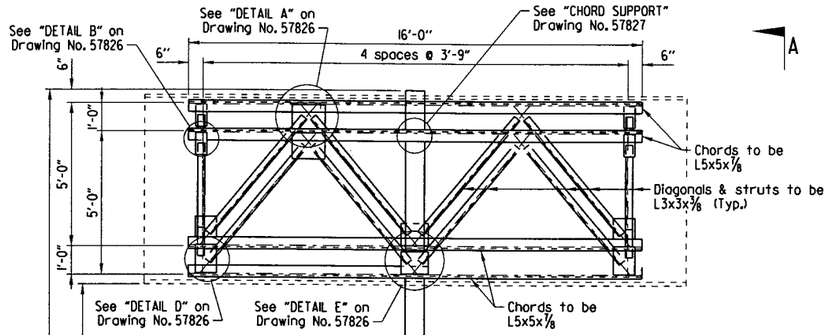
PRINT DATE: 8/6/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	190	194

① SEE TABLE - TEE MOUNT SIGN - 57825

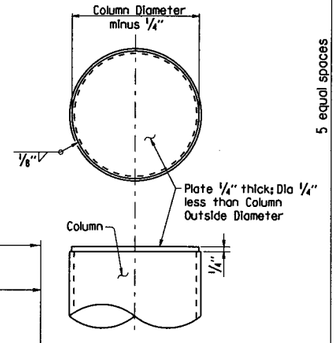


PLAN

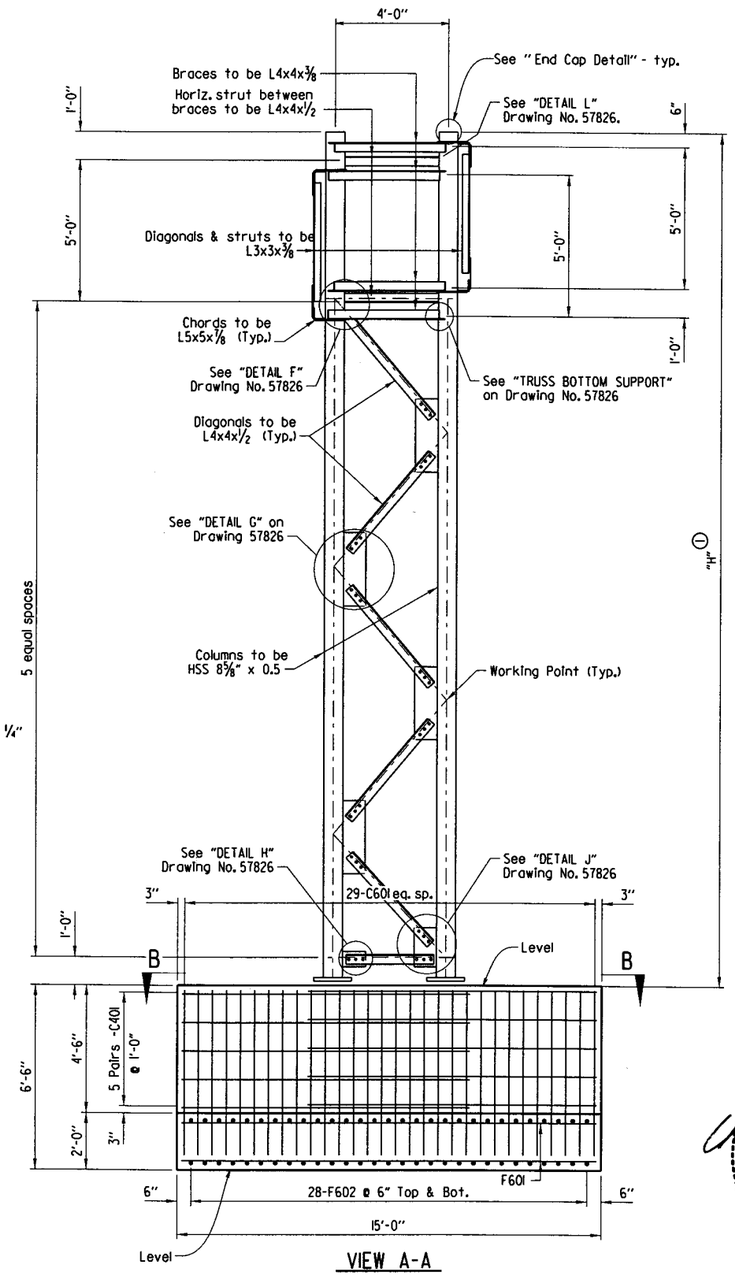


Note:
For Dynamic Message Sign connection to structure, see General Notes and Manufacturer's recommendations. See Special Provision Job No. 012215 "OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY" for addition details. Dynamic Message Signs are to be centered on the structure or placed as directed by the Engineer.

ELEVATION - FOUNDATION A②



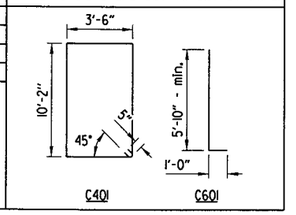
END CAP DETAIL



VIEW A-A

BAR LIST - PER SIGN STRUCTURE - FOUNDATION A

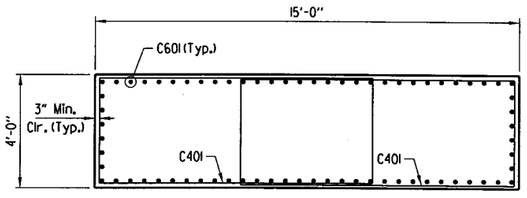
MARK	NO. REQ'D.	LENGTH	PIN. DIA.	BENDING DIAGRAMS Dimensions are out to out of bars.
C401	10	27'-10"	3"	
C601	72	6'-8"	4½"	
F601	30	14'-6"	Str.	
F602	56	7'-6"	Str.	



APPROX. QUANTITIES FOR FOUNDATION (FOR INFORMATION ONLY)

STRUCTURE	CLASS S CONCRETE (CU. YDS.)	REINFORCING STEEL (LBS.)	EXCAVATION (CU. YDS.)
FOUNDATION A	18.90	2,220	44

① The Contractor shall make field measurements to determine the column height ("H") that is required to maintain the minimum vertical clearance. The column height shall be shown on the shop drawings with a note stating that the Contractor has made the required field measurements. If the structure height ("H") exceeds 30'-0" contact the Engineer.



SECTION B-B

SIGN STRUCTURE	FOUNDATION
TM-049-72-12	A
TM-049-72-19	②
TM-049-04-30	A

② For TM-049-72-19 Median Barrier Foundation, See "Details of Tee Mount Foundation Modification", Dwg. No. 57829.

STATE OF ARKANSAS
CHARLES R. ELLIS
LICENSED PROFESSIONAL ENGINEER
No. 9235
8-30-18
BRIDGE ENGINEER

SHEET 1 OF 4
DETAILS OF TEE MOUNT SIGN STRUCTURE WITH MEDIAN FOUNDATION

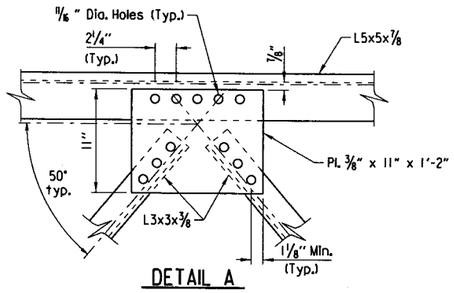
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KDH DATE: APR. 2018 FILENAME: b012215_tm.dgn
CHECKED BY: CMW DATE: 8/21/18 SCALE: ⅜" = 1'-0"
DESIGNED BY: KAP DATE: APR. 2018
STR. NO. SEE TABLE DRAWING NO. 57825

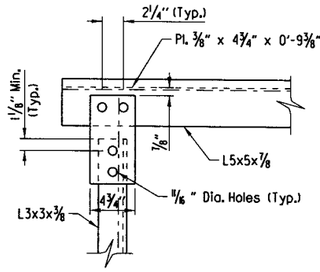
PRINT DATE: 8/20/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	191	194

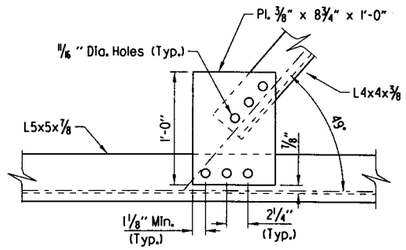
(1) SEE TABLE - TEE MOUNT SIGN - 57826



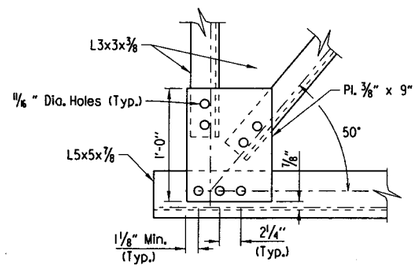
DETAIL A
Scale: 1½" = 1'-0"



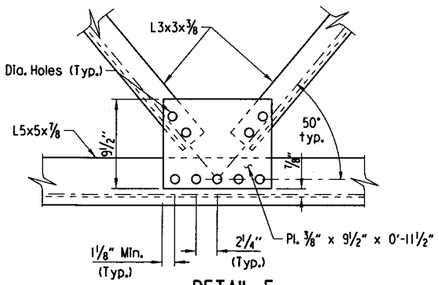
DETAIL B
Scale: 1½" = 1'-0"



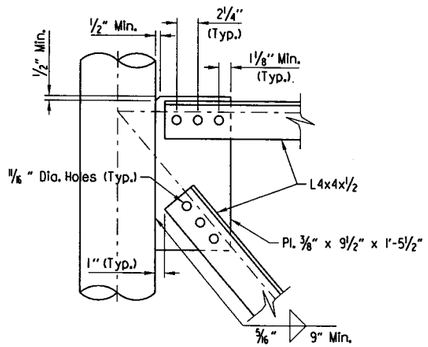
DETAIL C
Scale: 1½" = 1'-0"



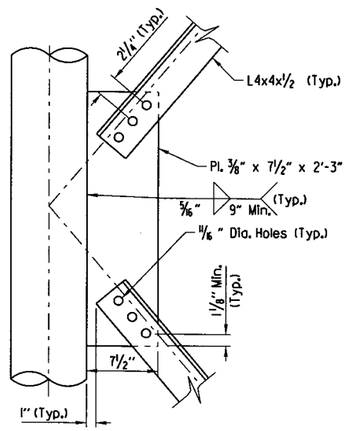
DETAIL D
Scale: 1½" = 1'-0"



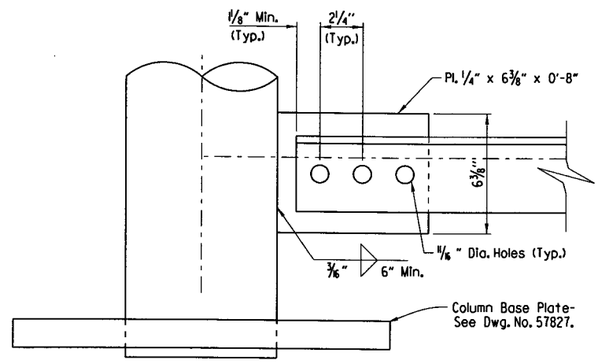
DETAIL E
Scale: 1½" = 1'-0"



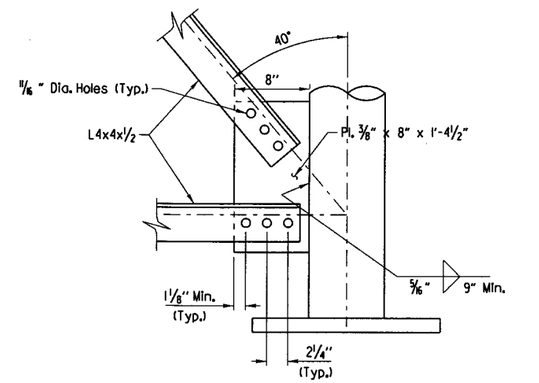
DETAIL F
Scale: 1½" = 1'-0"



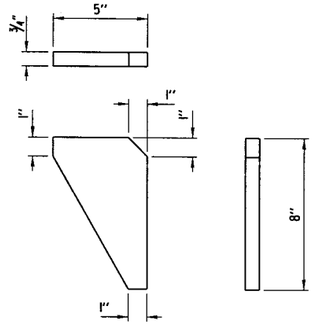
DETAIL G
Scale: 1½" = 1'-0"



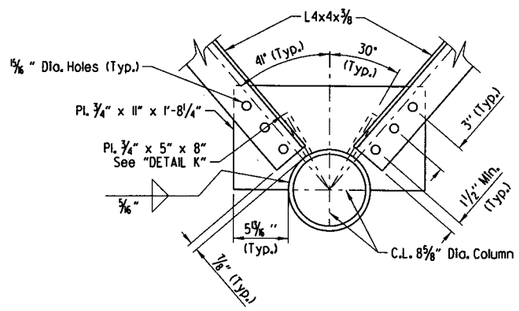
DETAIL H
Scale: 3" = 1'-0"



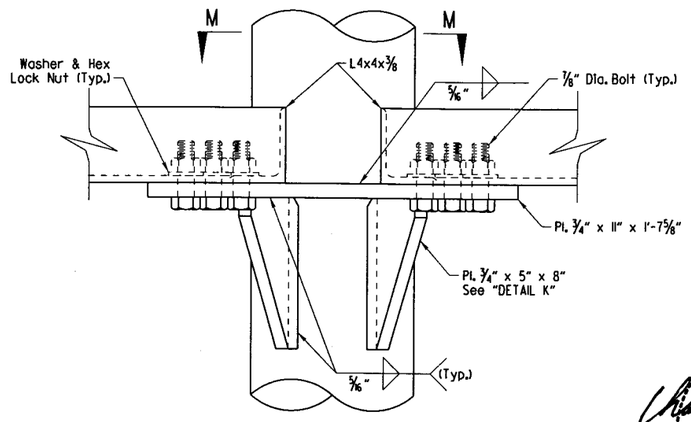
DETAIL J
Scale: 1½" = 1'-0"



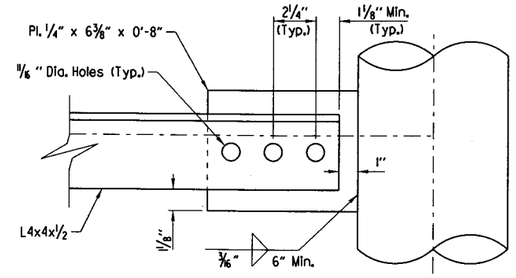
DETAIL K
Scale: 3" = 1'-0"



SECTION M-M
PLAN-TRUSS BOTTOM SUPPORT
Scale: 1½" = 1'-0"



ELEVATION-TRUSS BOTTOM SUPPORT
Scale: 3" = 1'-0"
Bottom connection shown, top connection similar.



DETAIL L
Scale: 3" = 1'-0"

STATE OF ARKANSAS
CHARLES R. ELLIS
LICENSED PROFESSIONAL ENGINEER
No. 9235
8-30-18
BRIDGE ENGINEER

SHEET 2 OF 4
DETAILS OF TEE MOUNT SIGN STRUCTURE WITH MEDIAN FOUNDATION

ROUTE SEC.

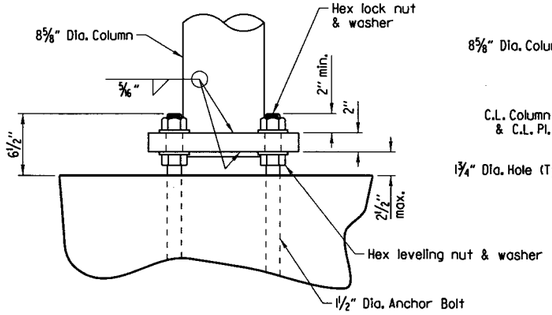
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KDH DATE: APR. 2018 FILENAME: b012215_tm.dgn
CHECKED BY: CMH DATE: 3/21/18 SCALE: AS NOTED
DESIGNED BY: KAP DATE: APR. 2018
STR. NO. SEE TABLE DRAWING NO. 57826

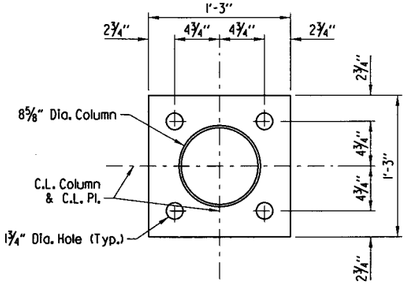
PRINT DATE: 8/20/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	193	194

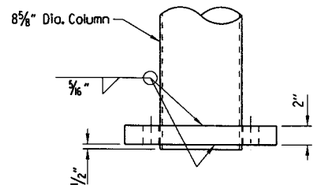
(1) SEE TABLE - TEE MOUNT SIGN - 57827



ELEVATION - COLUMN BASE
Scale: 1½"=1'-0"

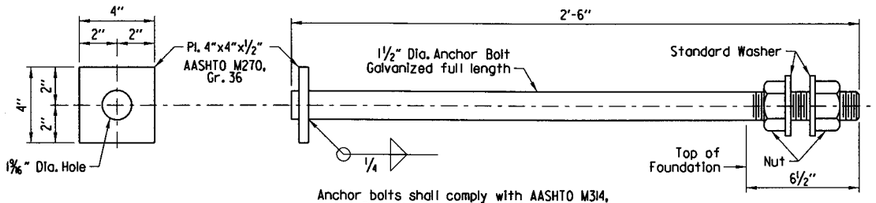


PLAN - COLUMN BASE
Scale: 1½"=1'-0"



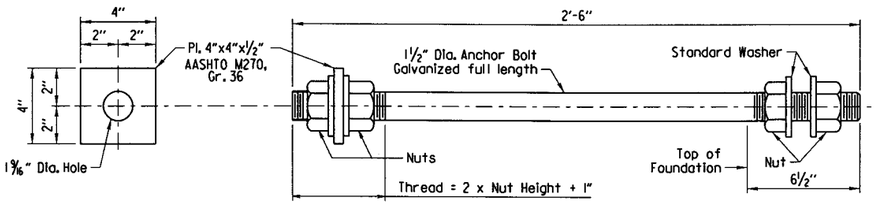
Note: Diameter of hole in base plate to be ⅛" larger than column diameter.

DETAIL OF COLUMN CONNECTION TO BASE PLATE
Scale: 1½"=1'-0"



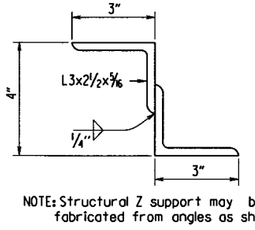
Anchor bolts shall comply with AASHTO M314, Grade 55, with Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts for bolts shall be as specified in Subsection 807.07.

ANCHOR BOLT DETAIL
Scale: 3"=1'-0"



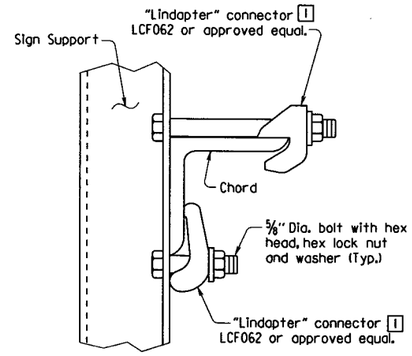
Anchor bolts shall comply with AASHTO M314, Grade 55, with Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts for bolts shall be as specified in Subsection 807.07.

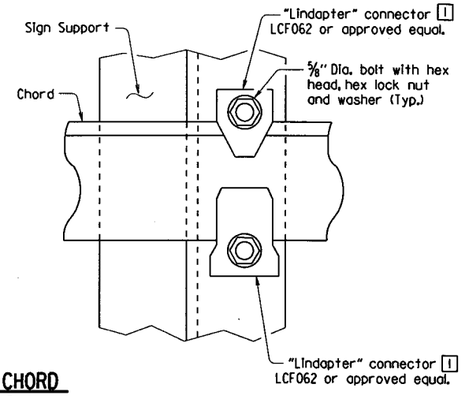
ALTERNATE ANCHOR BOLT DETAIL
Scale: 3"=1'-0"



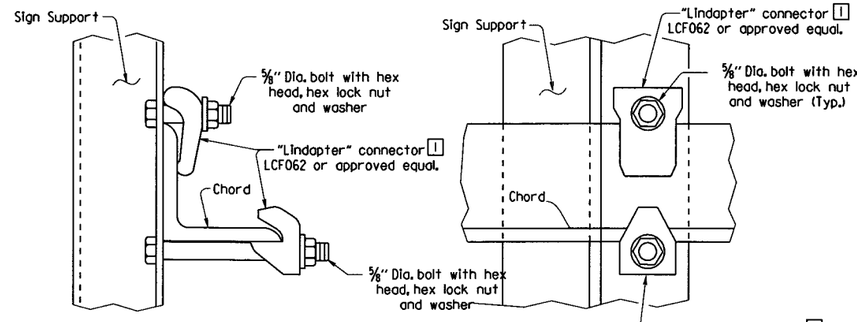
NOTE: Structural Z support may be fabricated from angles as shown.

DETAILS OF ALTERNATE Z SUPPORT
No Scale





TOP CHORD
No Scale

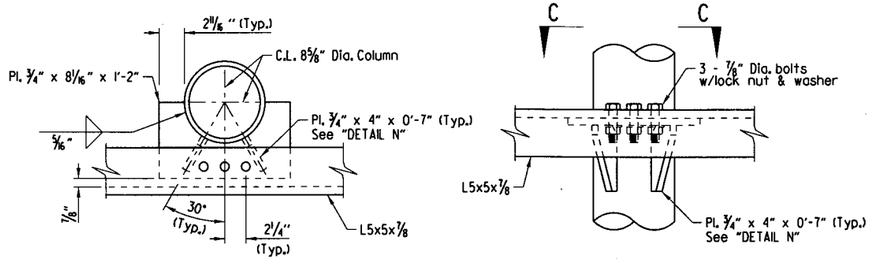


BOTTOM CHORD

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

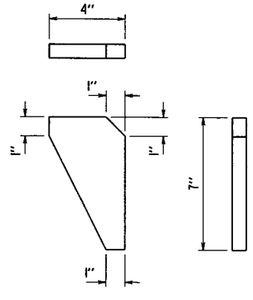
Note: Install all support connectors clear of the gusset plates and splice locations.

DETAIL OF SIGN SUPPORT CONNECTED TO TRUSS
No Scale



SECTION C-C
PLAN - CHORD SUPPORT
Scale: 1½"=1'-0"

ELEVATION - CHORD SUPPORT
Scale: 1½"=1'-0"



DETAIL N
Scale: 3"=1'-0"

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
5-30-18
BRIDGE ENGINEER

SHEET 3 OF 4
DETAILS OF TEE MOUNT SIGN STRUCTURE WITH MEDIAN FOUNDATION

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

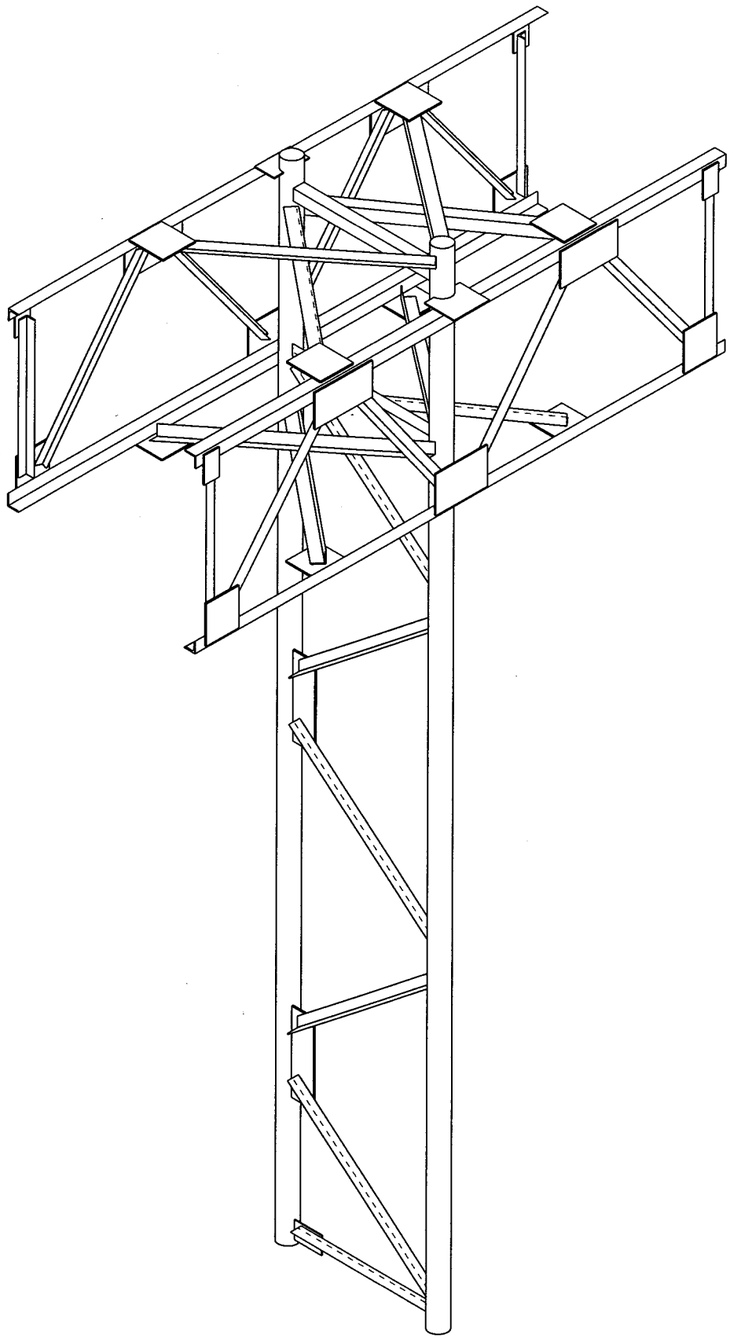
DRAWN BY: KDH DATE: APR. 2018 FILENAME: b012215_tm.dgn
CHECKED BY: CMW DATE: 5/21/18 SCALE: AS NOTED
DESIGNED BY: MAP DATE: APR. 2018

STR. NO. SEE TABLE DRAWING NO. 57827

PRINT DATE: 8/20/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	193	194

(1) SEE TABLE - TEE MOUNT SIGN - 57828



ISOMETRIC VIEW

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 200 square feet of sign area and a Dynamic Message Sign (DMS) with a maximum deadload weight of 2200 lbs per side. Use of additional sign area or a heavier DMS 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:	AASHTO M 270, Grade 36 (Fy = 36,000 psi)
Plate, W-Section:	AASHTO M 270, 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), ASTM A714, Class 2, Grade II, Type E or S (Fy = 50,000 psi)
Z-Shapes:	AASHTO M 270, Grade 36 (Fy = 36,000 psi)
Shim Plates:	ASTM A1011, SS, Grade 36, Type 2, or Grade 40
Bolts:	ASTM A325, Type 1
Locknuts - Approved Type:	Meeting or exceeding AASHTO M 292
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 Special Provision Job No. 012215 "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" diameter and open holes shall be 11/16" 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 truss frame bolts shall comply with ASTM A325 Type 1, galvanized according to Subsection 807.06. Nuts and washers for ASTM A325 Type 1 bolts shall be furnished and galvanized in accordance with Subsection 807.06.

Lock nuts to be equipped with nylon locking inserts or other approved type locking system. Lock nuts 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 Special Provision Job No. 012215 "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 Tee Mount Sign Structure". The excavations for the footings shall be backfilled before the structure is attached to the foundations.

The DMS supplier shall be responsible for the attachment method and materials used to attach the DMS and it accessories to the structure. The method of attachement shall not facilitate any corrosion of the structure.

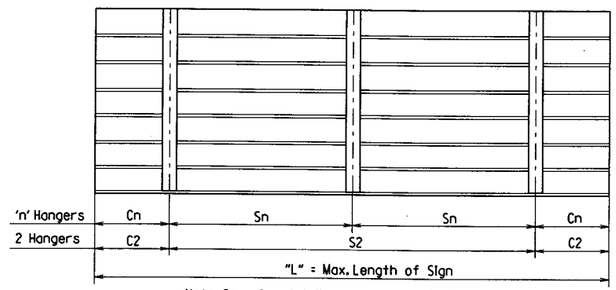
For additional information regarding the DMS, see Special Provision Job No. 012215 "Overhead Dynamic Message Sign Assembly."

[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'
45'-0"	4 Hangers	0.107 x 'L'	0.262 x 'L'

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



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

HANGER SPACING DETAILS FOR EXTRUDED PANEL SIGNS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
8-30-18
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 4 OF 4
DETAILS OF TEE MOUNT SIGN STRUCTURE WITH MEDIAN FOUNDATION

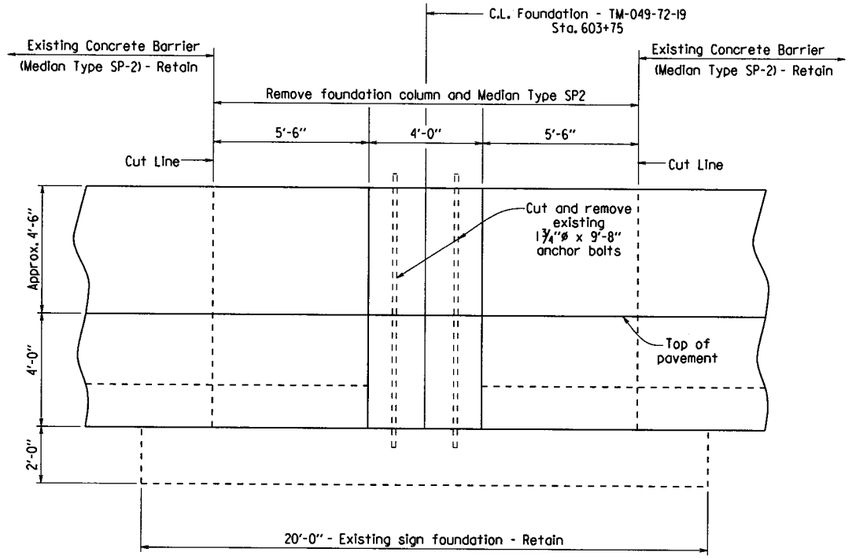
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KDH DATE: APR. 2018 FILENAME: b012215_tm.dgn
CHECKED BY: CMW DATE: 8/21/18 SCALE: NONE
DESIGNED BY: MAP DATE: APR. 2018
STR. NO. SEE TABLE DRAWING NO. 57828

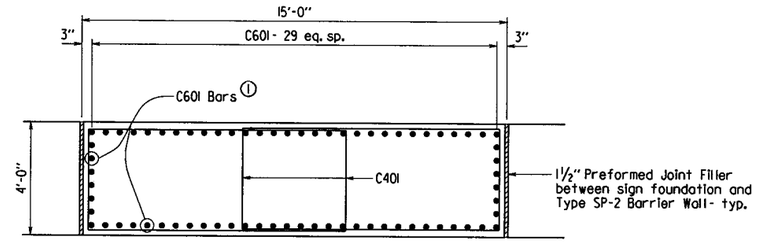
PRINT DATE: 8/20/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012215	194	194
				① TM-049-72-19 - FND. MOD. - 57829				



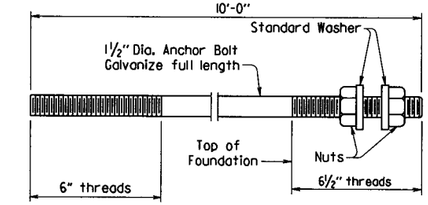
ELEVATION - REMOVAL

Scale: ⅜" = 1'-0"



VIEW A-A

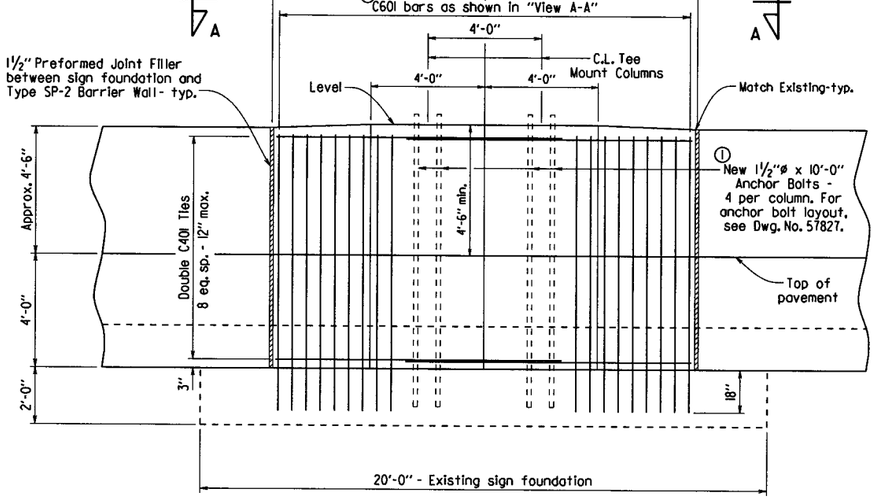
Scale: ⅜" = 1'-0"



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

ANCHOR BOLT DETAIL

No Scale



ELEVATION - NEW CONSTRUCTION

Scale: ⅜" = 1'-0"

① New C601 reinforcing bars and new anchor bolts shall be installed into drilled holes in the existing foundation and secured with a resin anchoring system on the Department's QPL. The diameter of the drilled holes and the installation procedures shall be as required by the resin anchoring system manufacturer.

GENERAL NOTES

FOUNDATION MATERIALS AND STRENGTHS:

Concrete shall be Class S Concrete, (f'c - 3,500) and conform to the requirments of Section 802.

Reinforcing steel shall be Grade 60, AASHTO M 31 or M 322, Type A, (fy = 60,000 psi) and shall conform to the requirements of Section 804.

New anchor bolts shall comply with AASHTO M314, Grade 55 with Supplementary Requirement S1, and shall be galvanized according to Subsection 807.07. Nuts for bolts shall be as specified in Subsection 807.07.

These items shall not be measured or paid for separately but shall be considered subsidiary to item "Modification of Existing Sign Foundation."

Removal of existing Concrete Barrier (Median Type SP-2) shall be in accordance with Section 821 and shall not be paid for separately but shall be subsidiary to the item "Modification of Existing Sign Foundation."

Removal of designated portion of existing foundation shall be in accordance with Section 821 and shall be subsidiary to the item "Modification of Existing Sign Foundation."

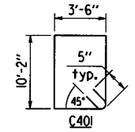
Maintain 2" clearance on all reinforcement.

Expansion joints shall be formed using 1" Preformed joint filler. Continuous reinforcement shall be cut 2" clear for expansion joints.

See Special Provision Job 012215 "Modification of Existing Sign Foundation" for additional information.

BAR LIST

MARK	NO. REQ'D.	LENGTH	P.D.
C401	18	27'-10"	3"
C601	72	9'-9"	Str.



APPROX. QUANTITIES FOR FOUNDATION (FOR INFORMATION ONLY)

STRUCTURE NO.	CLASS S CONCRETE (CU. YD.)	REINFORCING STEEL (LB.)
TM-049-72-19	18.90	1,390

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9335
CHARLES R. ELLIS
7/25/18

BRIDGE ENGINEER

DETAILS OF TEE MOUNT FOUNDATION MODIFICATION

ROUTE SEC.

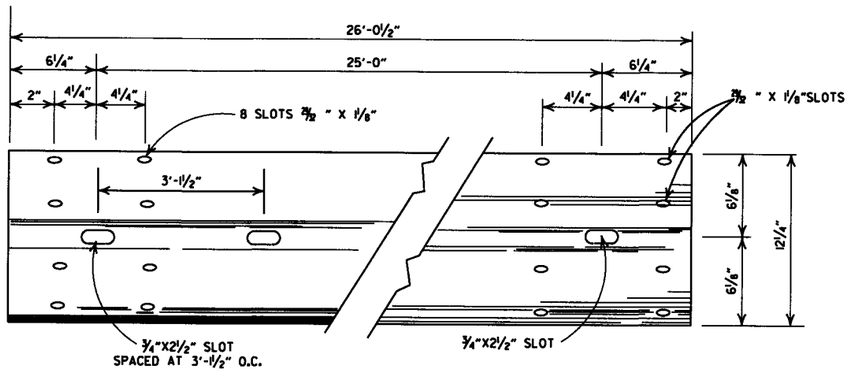
ARKANSAS STATE HIGHWAY COMMISSION

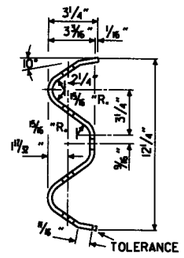
LITTLE ROCK, ARK.

DRAWN BY: KDH DATE: MAR. 2018
CHECKED BY: SWP DATE: 7-24-18
DESIGNED BY: KAP DATE: MAR. 2018
FILENAME: b012215_tm mod.dgn
SCALE: AS NOTED

STR. NO. TM-049-72-19 DRAWING NO. 57829

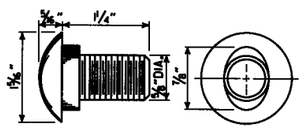
PRINT DATE: 7/24/2018



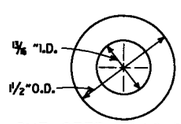


DETAILS OF W-BEAM GUARD RAIL

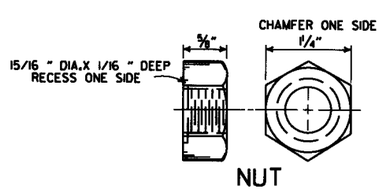
RAIL SECTION OF CLOSELY SIMILAR DIMENSIONS AND COMPARABLE STRENGTH MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.



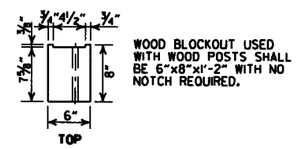
SPLICE BOLT
POST BOLT - SAME EXCEPT LENGTH



CUT STEEL WASHER

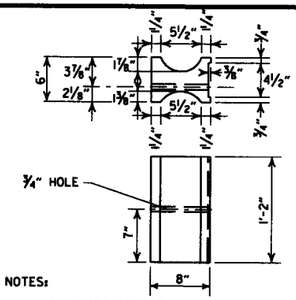


NUT



WOOD BLOCKOUT USED WITH WOOD POSTS SHALL BE 6"x8"x1'-2" WITH NO NOTCH REQUIRED.

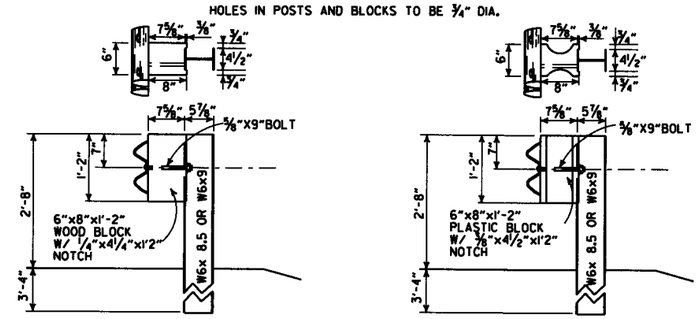
WOOD BLOCKOUT (W-BEAM)



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.

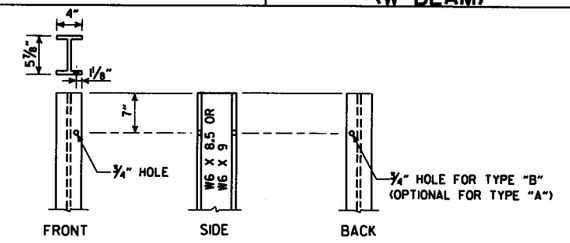
PLASTIC BLOCKOUT (W-BEAM)



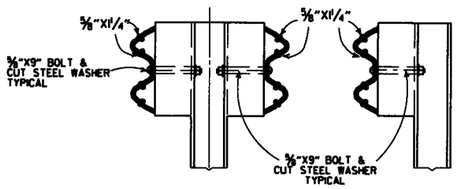
WOOD BLOCKOUT CONNECTIONS

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 GUARD RAIL CONTINUES, THE INTERMEDIATE SECTIONS SHALL HAVE A POST SPACING OF 6'-3" UNLESS OTHERWISE NOTED.

W-BEAM GUARD RAIL REPRESENTING INTERMEDIATE SECTIONS WILL BE MEASURED ALONG THE ROADWAY FACE FROM CENTERLINE OF POST TO CENTERLINE OF POST.

USE W-BEAM GUARD RAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB. FOR EXTENSIONS OR MODIFICATION OF EXISTING GUARD RAIL, W-BEAM GUARD RAIL 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 9.7 f (1400 f) OR NO. 1 1350 f SOUTHERN PINE.

CONTRACTOR SHALL HAVE THE OPTION OF USING WOOD BLOCKOUTS FOR W-BEAM GUARD RAIL OR PLASTIC BLOCKOUTS, AS LONG AS BLOCKOUT USED MEETS REQUIREMENTS FOR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) FOR W-BEAM GUARD RAIL.

POSTS AND BLOCKS TO BE ROUGH SAWN 6"X8" WITH A TOLERANCE OF + OR - ¼".

WOOD BLOCKOUT CONNECTIONS

PLASTIC BLOCKOUT CONNECTIONS

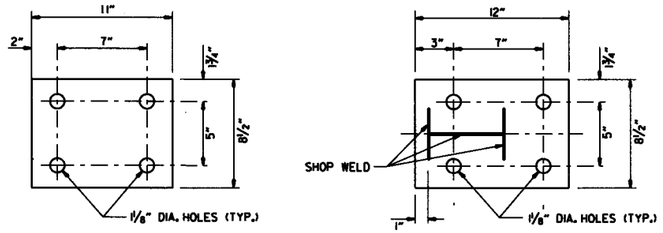
DETAILS OF WOOD LINE POST CONNECTIONS (W-BEAM)

DATE	REVISION	FILMED
11-16-17	REVISED GENERAL NOTES AND RAISED GUARD RAIL HEIGHT 3"	
07-14-10	RAISED HEIGHT OF GUARD RAIL 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 GUARD RAIL 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 GUARD RAIL REPLACE. BEHIND CURB & DET. OF POST PLACE. IN SOLID ROCK, & ADDED DETAILS OF STEEL LINE POST CONN. REMOVED BACK-UP PLATE, REVISED HOLE 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

GUARD RAIL DETAILS

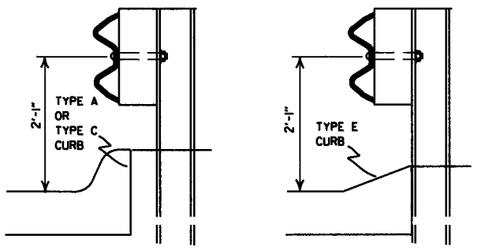
STANDARD DRAWING GR-8



WASHER PLATE

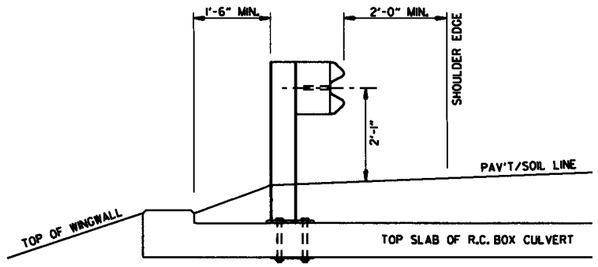
BASE PLATE

Note: Bolts, nuts, washers and plates shall be galvanized in accordance with Section 807 of the Standard Specifications.

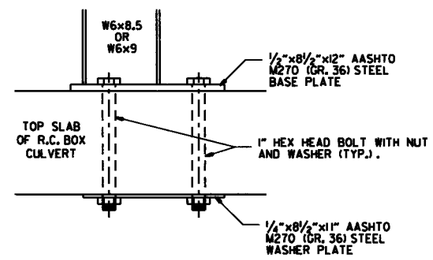


DETAIL OF GUARD RAIL PLACEMENT BEHIND CURB (W-BEAM)

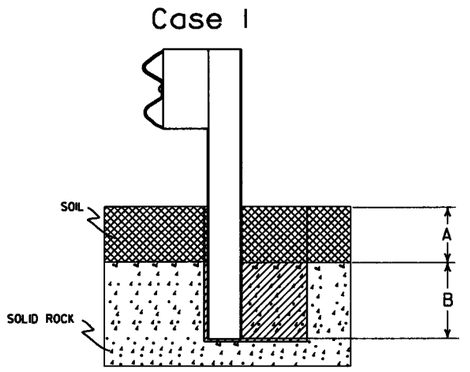
FOR DESIGN SPEEDS OF 50 MPH OR LESS ALL CURB FACES, AS SHOWN ON STD. DRWG. CG-1, MAY BE USED. FOR DESIGN SPEEDS OF 55 MPH OR MORE TYPE "E" CURB FACE SHALL BE USED.

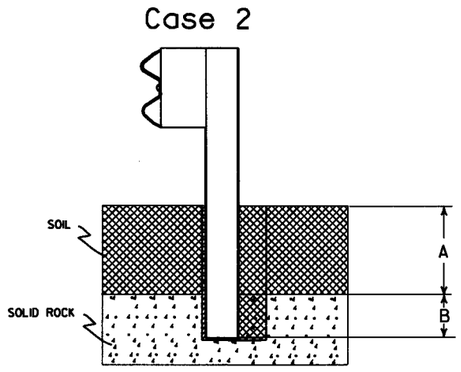


SECTION A-A



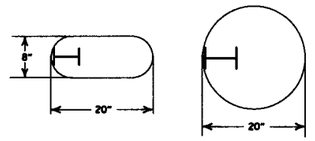
DETAIL OF CONNECTION

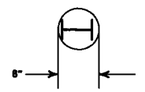




Plan View Steel Posts

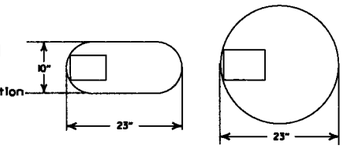
Either hole configuration acceptable

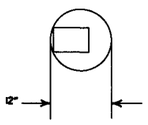




Plan View Wood Posts

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".

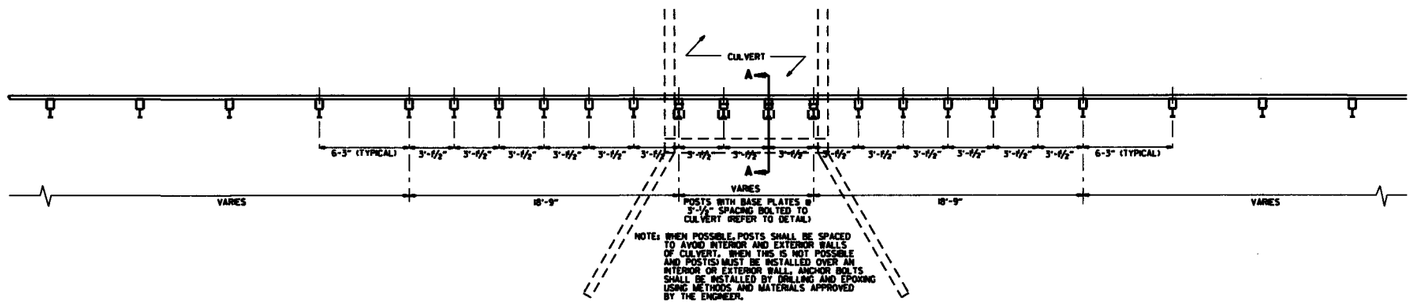
Zone A:
Backfill according to Section 617.03(a).

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 GUARD RAIL AT LOW-FILL CULVERTS

NOTE: THIS DETAIL IS TO BE USED ONLY WHEN THE COVER OVER THE CULVERT DOES NOT PERMIT FULL EMBEDMENT OF GUARD RAIL POSTS AS SHOWN ON STD. DRG. GR-8.

DATE	REVISION	FILMED
11-16-17	REVISED GUARD RAIL HEIGHT	
07-14-10	RAISED HEIGHT OF GUARD RAIL 1"	
04-12-07	REVISED DETAIL OF GUARD RAIL PLACEMENT BEHIND CURB	
11-10-05	ADDED GUARD RAIL PLACEMENT BEHIND CURB; REVISED DETAIL OF CONNECTION	
11-18-04	REVISED POST PLACEMENT IN ROCK & CULVERT CONNECTION DETAILS. ADDED DETAIL FOR GUARD RAIL 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 GUARD RAIL CONNECTION TO R.C. BOX CULV'T., DELETED DET. OF STEEL LINE POST CONN. & ADDED DET. OF GUARD RAIL 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

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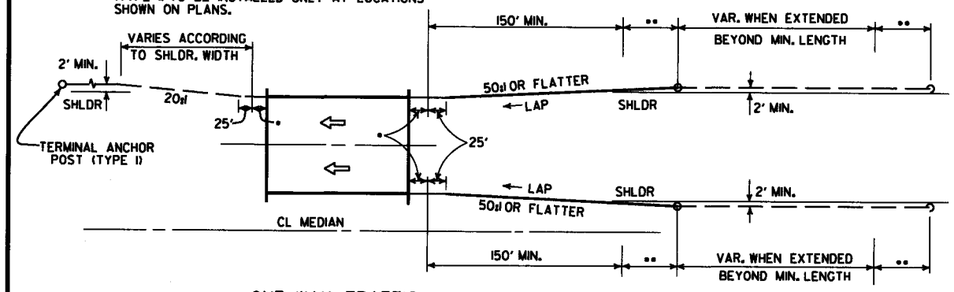
GUARD RAIL DETAILS

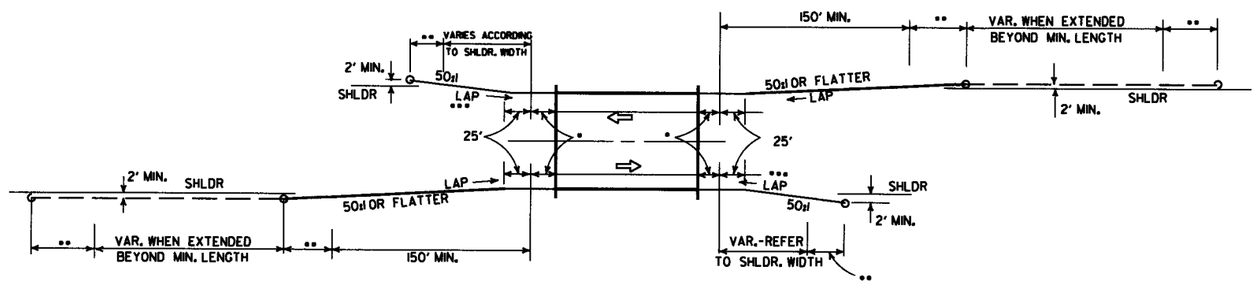
STANDARD DRAWING GR-8A

NOTE: GUARD RAIL WITH GUARD RAIL TERMINAL (TYPE 1) TO BE INSTALLED ONLY AT LOCATIONS SHOWN ON PLANS.



ONE-WAY TRAFFIC

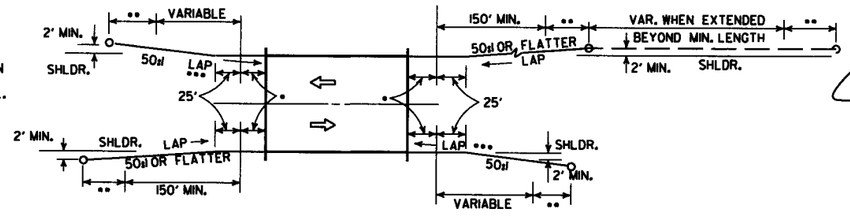
••• LAP OF GUARD RAIL SHALL BE AS SHOWN FOR A DISTANCE OF UP TO 200'. CHANGE TO LAP IN DIRECTION OF TRAVEL.



TWO-WAY TRAFFIC

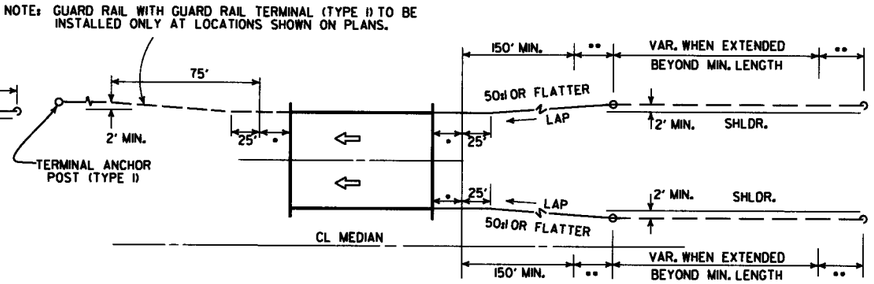
METHODS OF INSTALLATION OF GUARD RAIL AT LESS THAN FULL SHOULDER WIDTH BRIDGES USING GUARD RAIL TERMINAL (TYPE 2)

••• LAP OF GUARD RAIL SHALL BE AS SHOWN FOR A DISTANCE OF UP TO 200'. CHANGE TO LAP IN DIRECTION OF TRAVEL.



TWO-WAY TRAFFIC

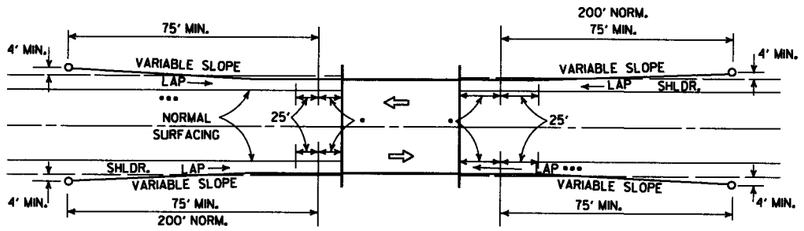
NOTE: GUARD RAIL WITH GUARD RAIL TERMINAL (TYPE 1) TO BE INSTALLED ONLY AT LOCATIONS SHOWN ON PLANS.



ONE-WAY TRAFFIC

METHOD OF INSTALLATION OF GUARD RAIL AT FULL SHOULDER WIDTH BRIDGES USING GUARD RAIL TERMINAL (TYPE 2)

••• LAP OF GUARD RAIL SHALL BE AS SHOWN FOR A DISTANCE OF UP TO 200'. CHANGE TO LAP IN DIRECTION OF TRAVEL.



LEGEND

- • THRIE BEAM GUARD RAIL TERMINAL
- •• GUARD RAIL TERMINAL (TYPE 2)

METHOD OF INSTALLATION OF GUARD RAIL USING GUARD RAIL TERMINAL (TYPE 1) (FULL SHOULDER WIDTH OR LESS BRIDGES)

DATE	REVISION	DATE FILM
4-17-08	REVISED LAYOUTS	
11-10-05	REMOVED GUARD RAIL NOTES AND DETAILS	
8-16-01	DELETED NOTE-METHOD OF INSTALLATION OF GUARD RAIL USING GUARD RAIL 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	

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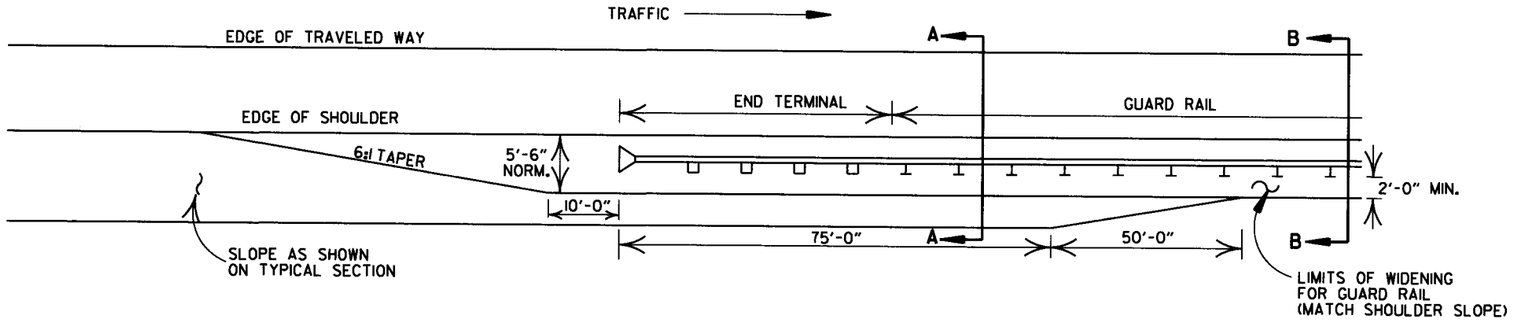
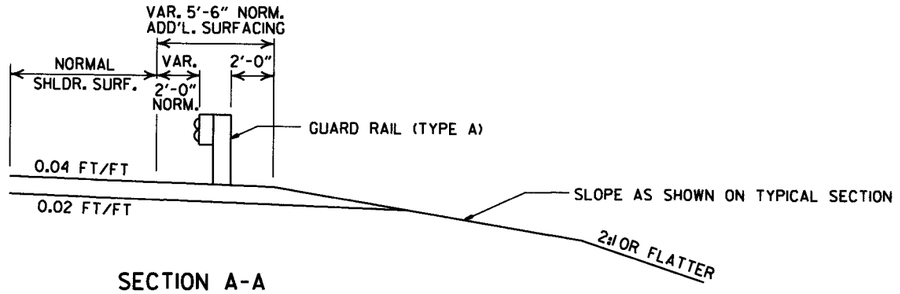
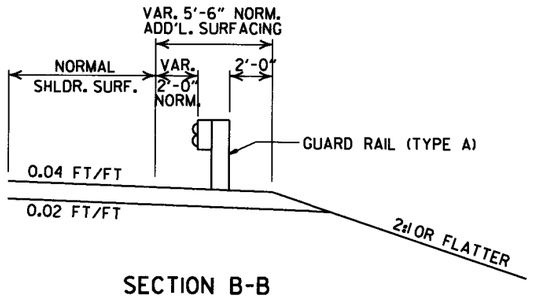
GUARD RAIL DETAILS

STANDARD DRAWING GR-9



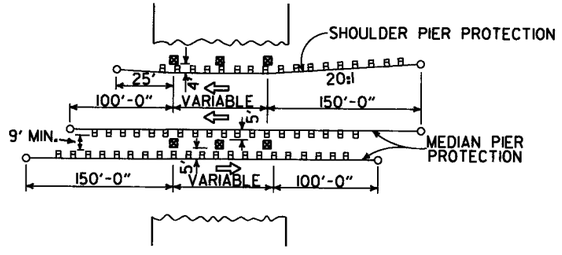


SECTION A-A



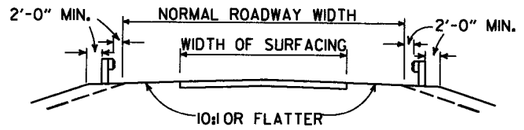
SECTION B-B

DETAILS OF WIDENING FOR GUARD RAIL

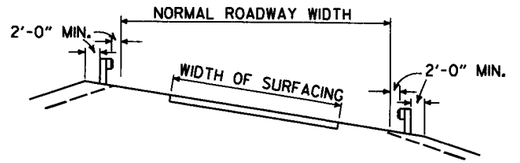


METHOD OF INSTALLATION OF GUARD RAIL AT FIXED OBSTACLE

NOTE: NORMAL SECTION TO BE WIDENED APPROX. 5'-6" EACH SIDE TO SUPPORT GUARD RAIL.



SECTION ON TANGENT



SECTION ON CURVE

DETAILS SHOWING POSITION OF GUARD RAIL ON HIGHWAY

DATE	REVISION	DATE FILM
4-17-08	MINOR REVISION	
11-10-05	DRAWN	

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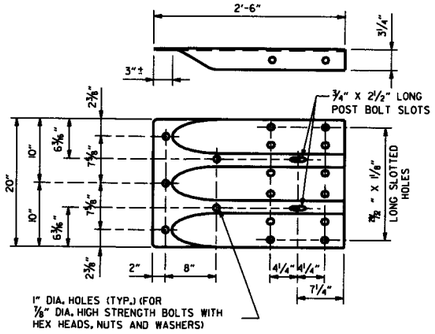
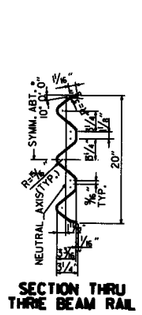
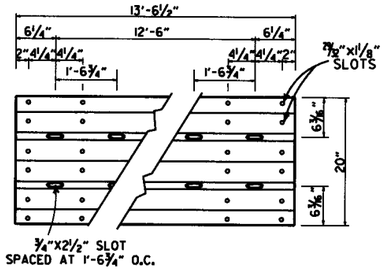
GUARD RAIL DETAILS

STANDARD DRAWING GR-9A

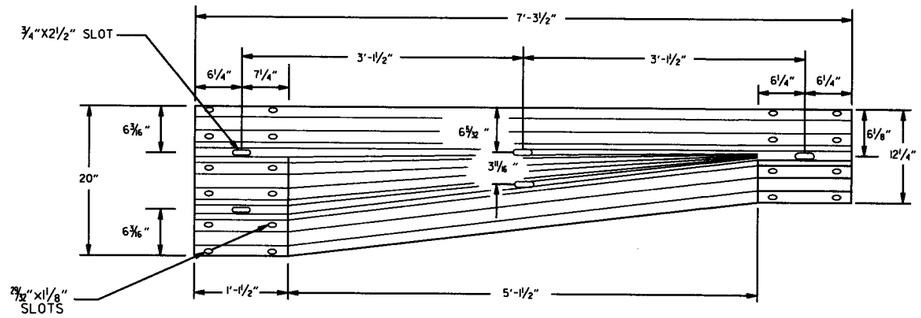


SPECIAL END SHOE

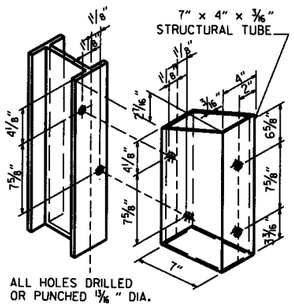




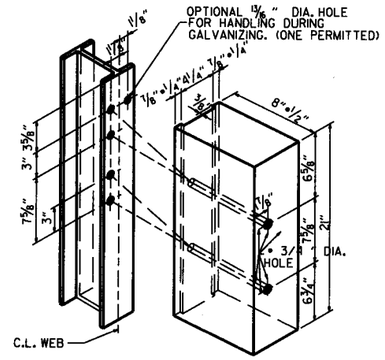
THRIE BEAM RAIL



TRANSITION SECTION



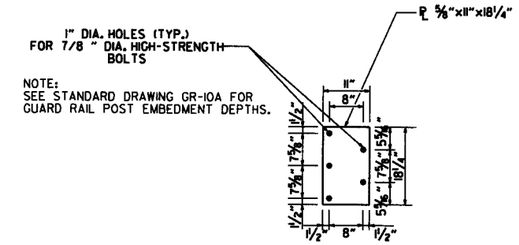
STRUCTURAL STEEL TUBING BLOCKOUT DETAIL



ALL HOLES ⅞" DIAMETER EXCEPT AS NOTED

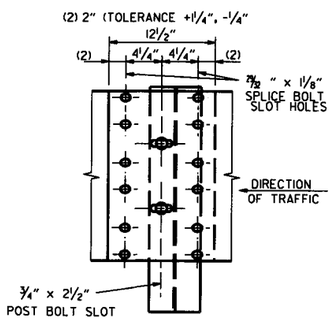
HOLE PUNCHING DETAIL FOR STEEL POST & WOOD OR PLASTIC BLOCKOUTS

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 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-9 & GR-13.

REFER TO STD. DRWG. GR-11 FOR POST DETAILS.

USE THRIE BEAM GUARD RAIL 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
11-16-17	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	

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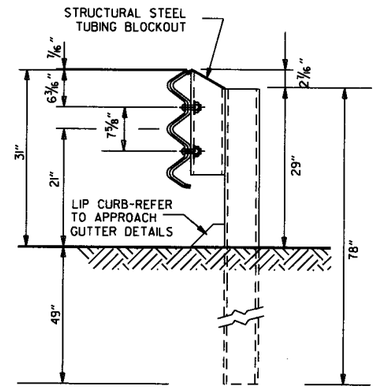
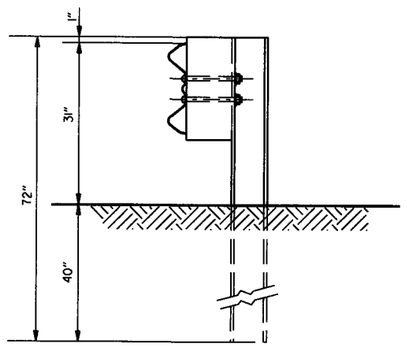
GUARD RAIL DETAILS

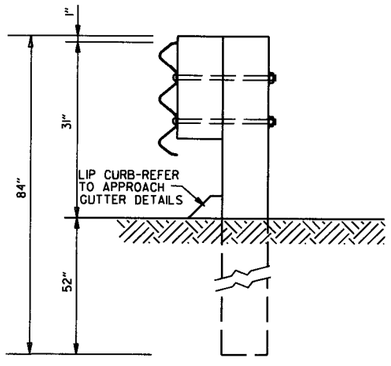
STANDARD DRAWING GR-10



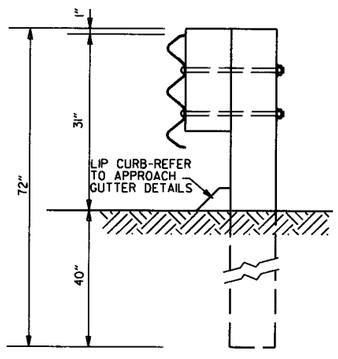
THRIE BEAM RAIL WITH STEEL TUBING BLOCKOUT
AND STEEL POST
POSTS 1-7



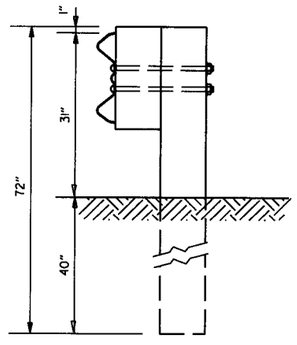
W-BEAM TO THRIE BEAM TRANSITION RAIL
WITH WOOD OR PLASTIC BLOCKOUT AND STEEL POST
POST 8



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. 1 STRUCTURAL OR BETTER 9.7f (1400 f) OR NO. 1 1350 f SOUTHERN PINE.

DATE	REVISION	FILMED
11-16-17	REVISED GUARD RAIL HEIGHT, CHANGED STD. DWG. NUMBER FROM GR-10A TO GR-11	
07-14-10	REVISED POST 8 DIMENSIONS	
8-29-07	ADDED PLASTIC BLOCKOUTS	
08-22-02	REVISED LIP CURB NOTE	
03-30-00	DRAWN & ISSUED	

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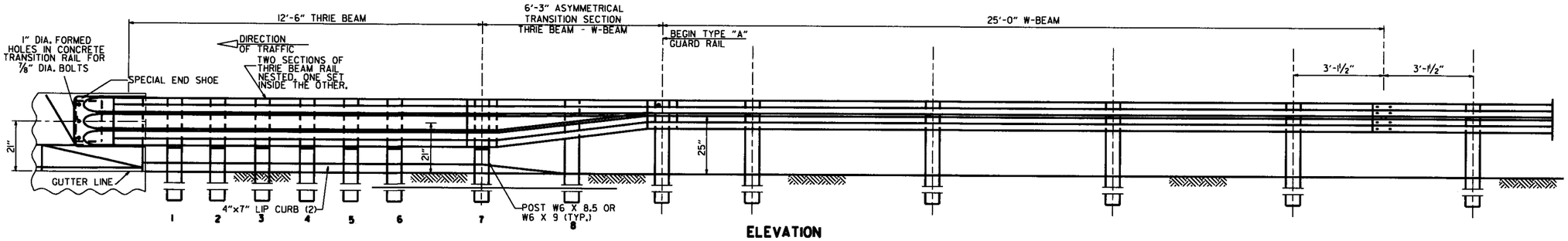
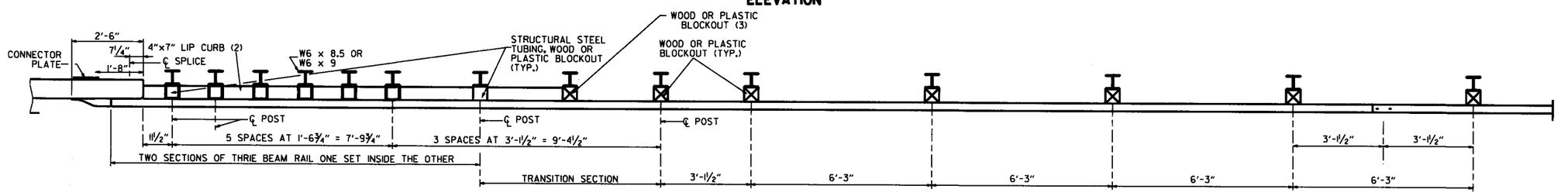
GUARD RAIL DETAILS

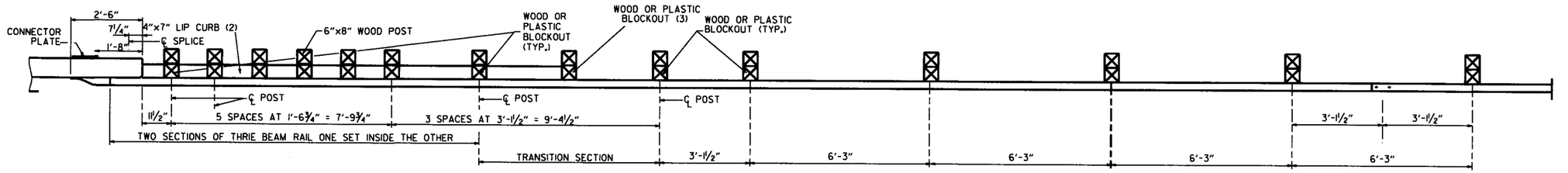
STANDARD DRAWING GR-11



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 GUARD RAIL 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-9 & GR-13.

REFER TO STD. DRWG. GR-11 FOR POST DETAILS.

USE THRIE BEAM GUARD RAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB.

THRIE BEAM POSTS SHALL BE SAME MATERIAL AS W-BEAM POSTS FOR ENTIRE JOB.

POSTS SHALL BE PLACED AT THE MID-SPAN OF THE W-BEAM.

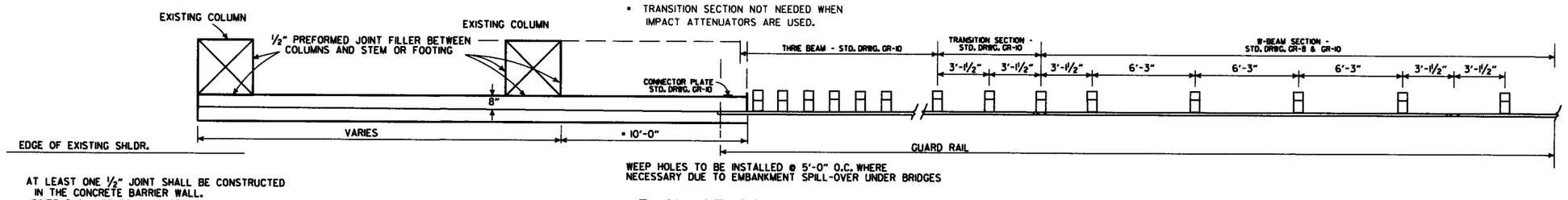
WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7 f (1400 f) OR NO. 1 1350 f SOUTHERN PINE.

DATE	REVISION	FILMED
11-16-17	RE-DRAWN FROM STD. DWG. GR-10 & ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

GUARD RAIL DETAILS

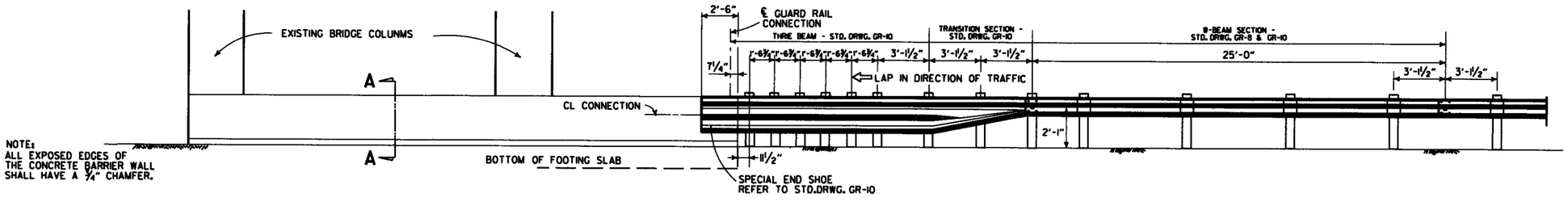
STANDARD DRAWING GR-12



AT LEAST ONE ½" JOINT SHALL BE CONSTRUCTED IN THE CONCRETE BARRIER WALL. JOINTS SHALL BE EQUALLY SPACED AT A MAXIMUM OF 25'-0" O.C. FILL JOINT WITH PREFORMED JOINT FILLER.

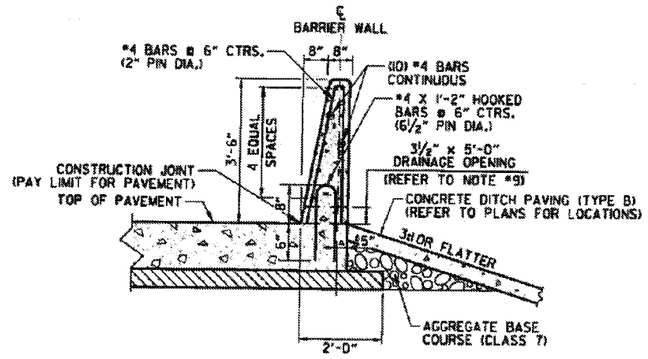
WEEP HOLES TO BE INSTALLED @ 5'-0" O.C. WHERE NECESSARY DUE TO EMBANKMENT SPILL-OVER UNDER BRIDGES

PLAN OF CONCRETE BARRIER WALL



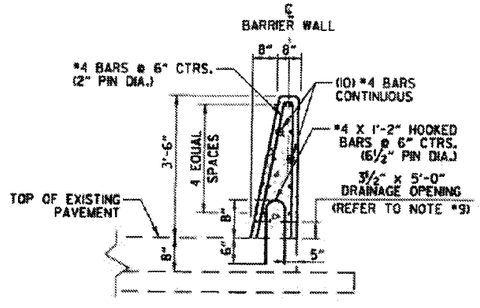
NOTE:
ALL EXPOSED EDGES OF THE CONCRETE BARRIER WALL SHALL HAVE A ¾" CHAMFER.

ELEVATION OF CONCRETE BARRIER WALL



SECTION A-A CONCRETE BARRIER WALL (SIDE TYPE A)

NOTE: SIDE TYPE A IS FOR USE WITH PROPOSED PAVEMENT.



SECTION A-A CONCRETE BARRIER WALL (SIDE TYPE A-1)

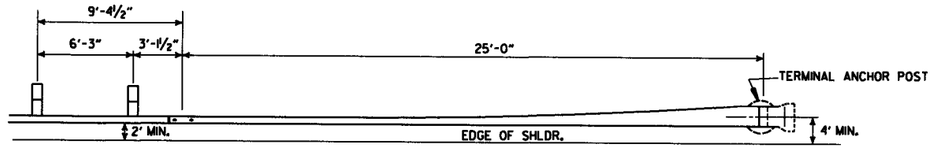
NOTE: SIDE TYPE A-1 IS FOR USE WITH EXISTING PAVEMENT.

DATE	REVISION	FILMED
11-16-17	REVISED CONCRETE BARRIER WALL, RAISED GUARDRAIL HEIGHT 3" AND REVISED POST SPACING, CHANGED STD. DWG. NUMBER FROM GR-11 TO GR-13	
07-14-10	RAISED HEIGHT OF W-BEAM 1"	
08-22-02	REV. SECTION A-A OF DETAILS OF CONCRETE BARRIER WALL	
06-29-00	MOVED DIMENSION LINE	
05-18-00	ADDED NOTE	
03-30-00	REVISED TO INCLUDE THRIE BEAM	
06-02-94	ADDED TRANSITION SECTION NOTE	
10-01-92	REDRAWN & REVISED	10-1-92
08-15-91	REVISED DRAWING PLAN CONC. BARR.	8-15-91
02-16-89	ADDED SKEWED DETAILS	594-2-16-89
07-14-88	CHANGED TITLE	
10-09-87	REDRAWN & REVISED	

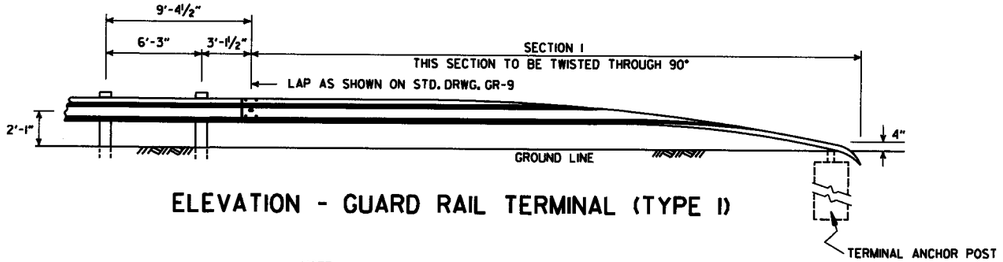
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE BARRIER WALL (PIER PROTECTION TYPE A)

STANDARD DRAWING GR-13

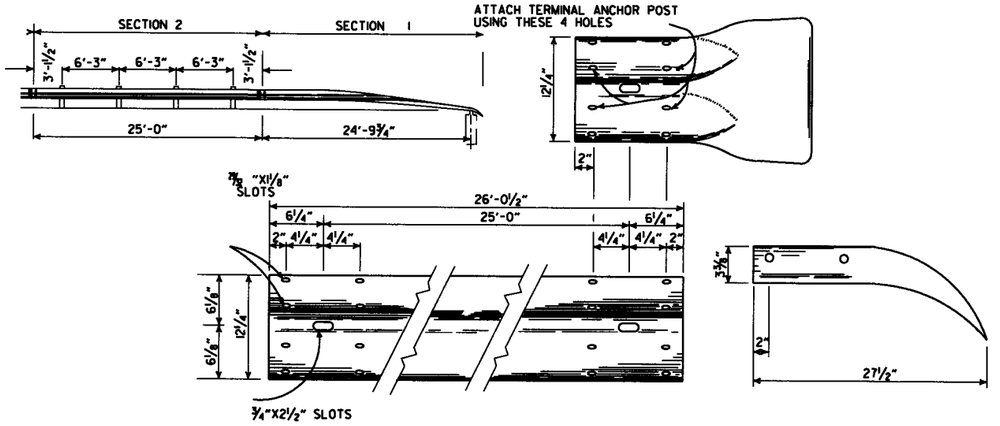


PLAN - GUARD RAIL TERMINAL (TYPE I)



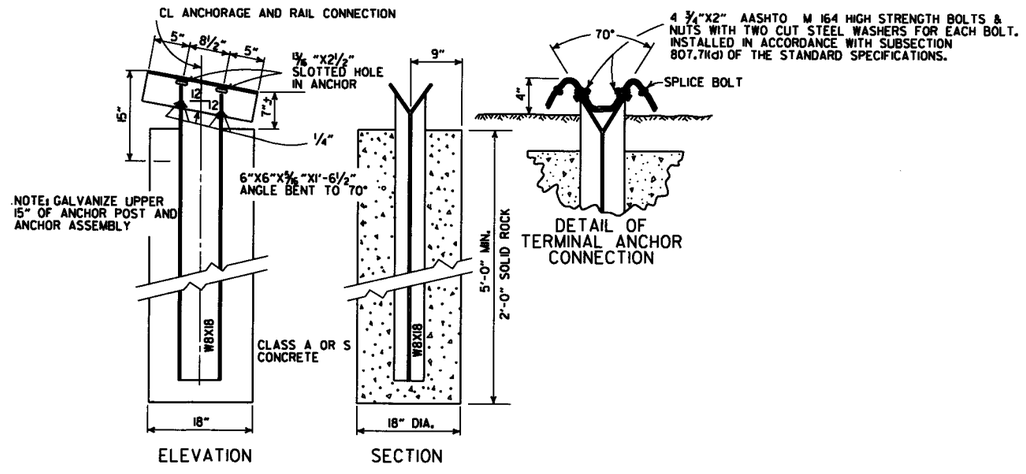
ELEVATION - GUARD RAIL TERMINAL (TYPE I)

NOTE:
SECTIONS 1 AND 2 OF GUARD RAIL TERMINAL SHALL BE PAID FOR AT THE PRICE BID PER LINEAR FOOT OF THE TYPE OF GUARD RAIL SPECIFIED.



SECTION 1

TERMINAL SECTION



NOTE: RAIL MEMBERS MAY BE BOLTED TO ANGLE AT TERMINAL ANCHOR AND THE TWO ASSEMBLIES POSITIONED TO PROPER ALIGNMENT PRIOR TO PLACING CONCRETE AROUND 8 WF 17 POST IF CONTRACTOR SO DESIRES.

DETAIL OF TERMINAL ANCHOR POST (TYPE I)

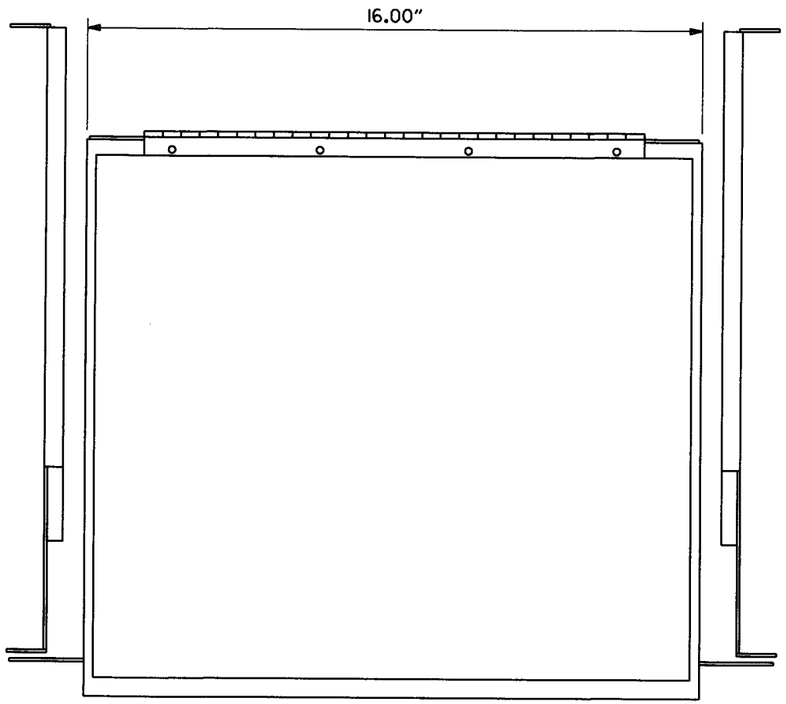
DATE	REVISION	FILMED
11-16-17	REVISED GUARD RAIL HEIGHT AND LOCATION OF POSTS	
07-14-10	RAISED HEIGHT OF GUARD RAIL 1"	
05-26-97	REVISED LAP NOTE	
10-18-96	REVISED ASTM REF. TO AASHTO	
11-03-94	DIMENSION TERMINAL DETAIL	
11-11-92	ADDED NOTE FOR PAYMENT	11-11-92
10-01-92	DRAWN & ISSUED	10-1-92

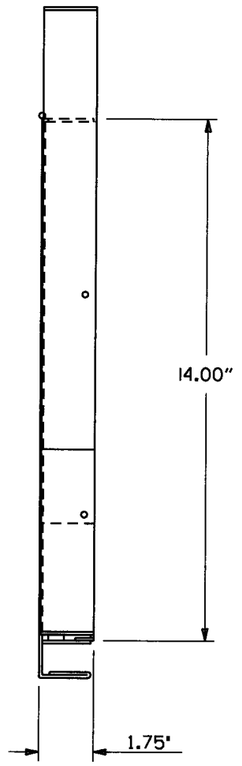
ARKANSAS STATE HIGHWAY COMMISSION

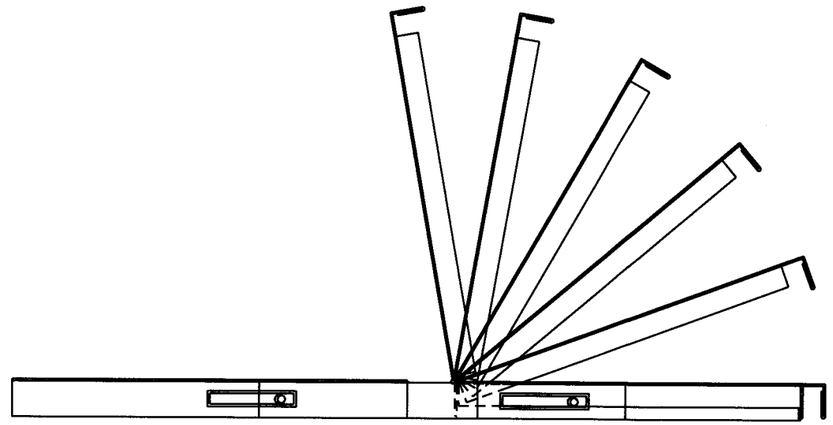
GUARD RAIL DETAILS

STANDARD DRAWING GRT-1

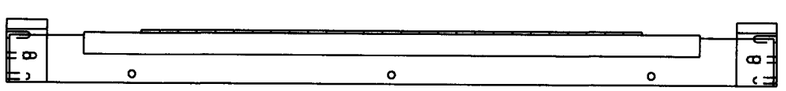
DRAWER PLAN VIEW



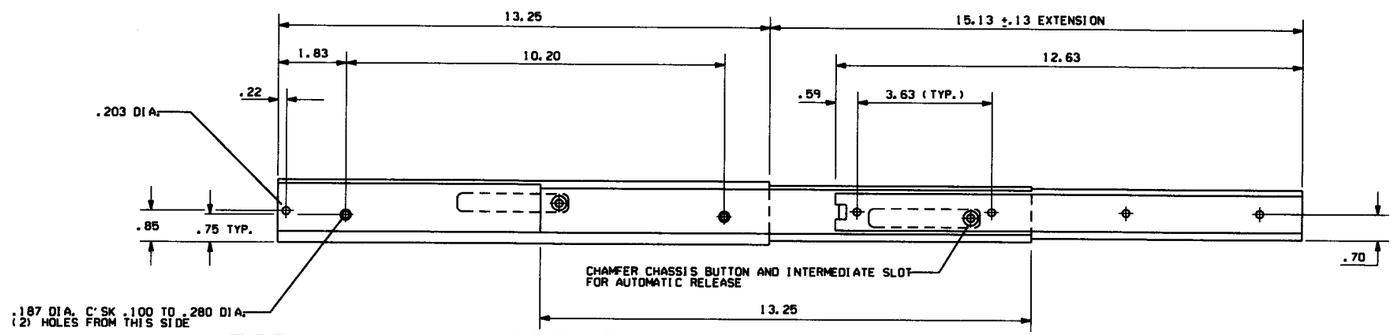




NOTES:
1. RIGHT HAND SLIDE SHOWN, LEFT SLIDE OPPOSITE.
2. GENERAL DEVICES (CC3002-99-0102) OR EQUAL AND CONTAINS (1) RIGHT HAND SLIDE ASSEMBLY, (1) LEFT HAND SLIDE ASSEMBLY.
3. ALL HARDWARE NECESSARY TO FASTEN SLIDE ASSEMBLY TO UNDERSIDE OF CONTROLLER SHELF SHALL BE INCLUDED.



FRONT VIEW



RIGHT SIDE ASSEMBLY

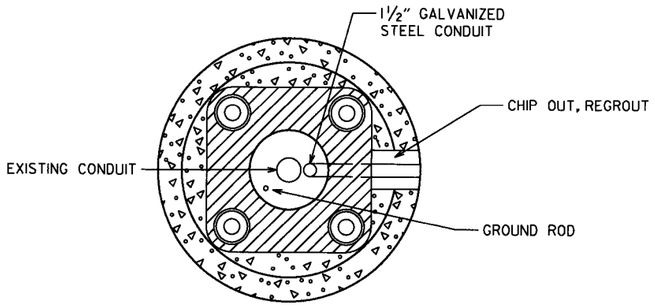
DATE	REVISION	DATE FILM
9-12-13	ISSUED AS STANDARD DRAWING	
6-15-05	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

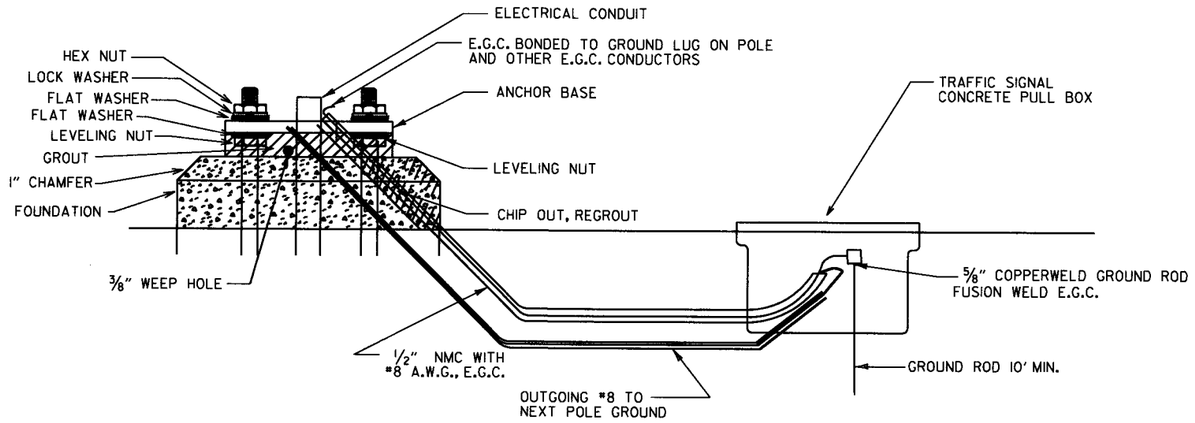
CONTROLLER CABINET UTILITY DRAWER

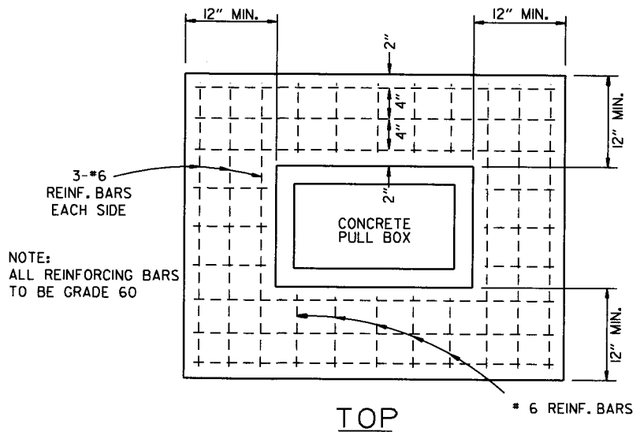
STANDARD DRAWING SD-5

CONDUIT ENTRY TO EXISTING POLE BASE

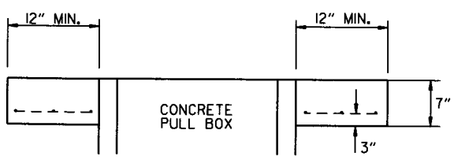


ANCHOR BASE



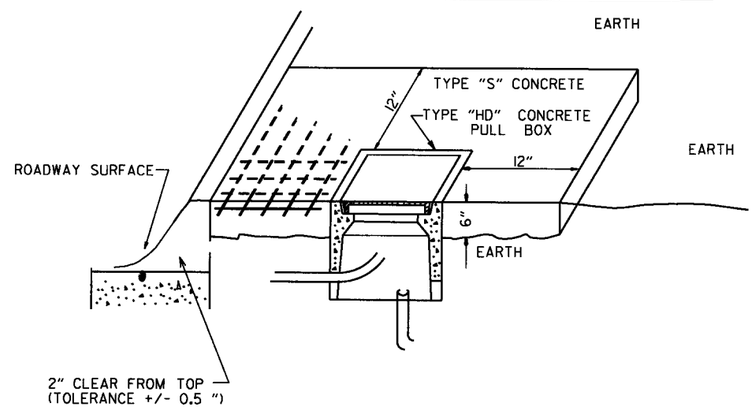


TOP

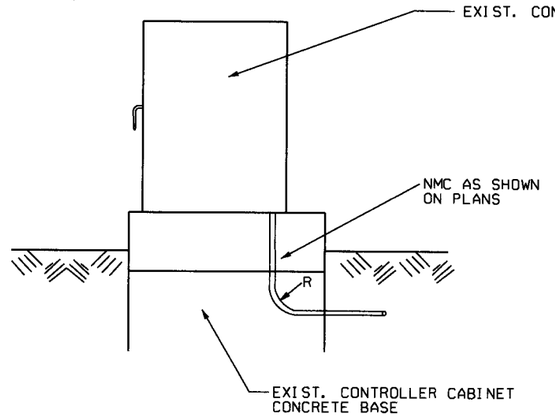


ELEVATION

TYPE "HD" CONCRETE PULL BOX DETAIL



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.

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	

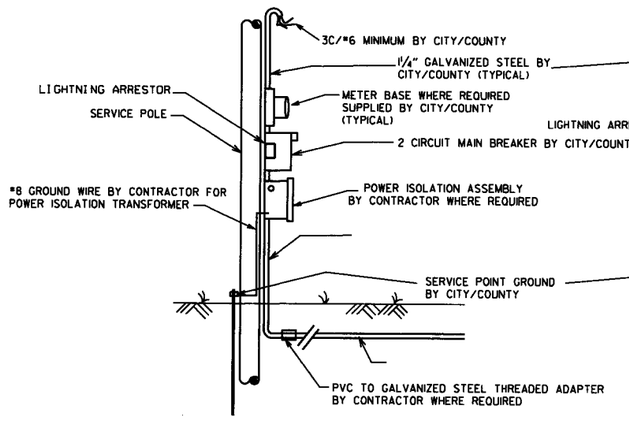
ARKANSAS STATE HIGHWAY COMMISSION

HEAVY DUTY PULL BOX

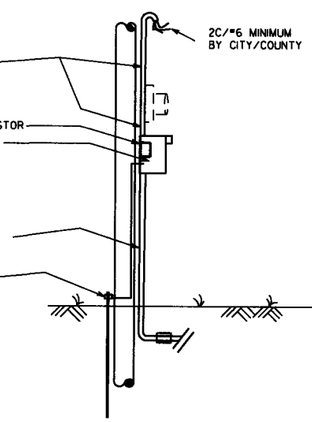
STANDARD DRAWING SD-6

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.

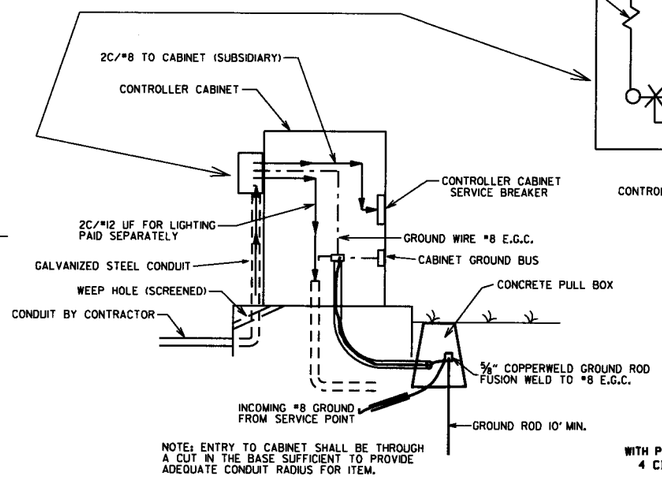
ALL SITUATIONS:
ELECTRICAL SERVICE SHALL BE PROVIDED BY THE CITY/COUNTY TO A SERVICE POLE WITH EXTERNAL RAINTIGHT BREAKER (MAIN BREAKER) AT A MUTUALLY ACCEPTABLE POINT WITHIN THE RIGHT-OF-WAY. SERVICE POINT INCLUDES GALVANIZED STEEL CONDUIT TO A POINT 18" BELOW GROUND LINE, TWO CIRCUIT MAIN BREAKER, 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.

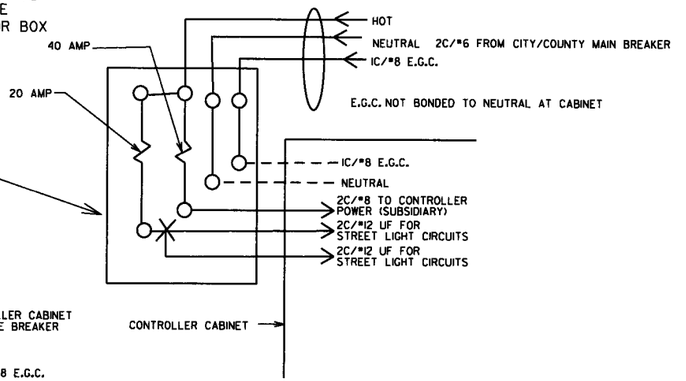
MAIN BREAKER NEAR CONTROLLER CABINET:
ALL COMPONENTS OF THE SERVICE POINT WITH THE EXCEPTION OF THE WIRE AND WIRING ABOVE THE MAIN BREAKER IS FURNISHED AND INSTALLED BY THE CONTRACTOR. WIRING FROM MAIN BREAKER INCLUDING CONNECTION TO THE UTILITY, IS THE RESPONSIBILITY OF THE CITY/COUNTY. IF METER LOOP 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.

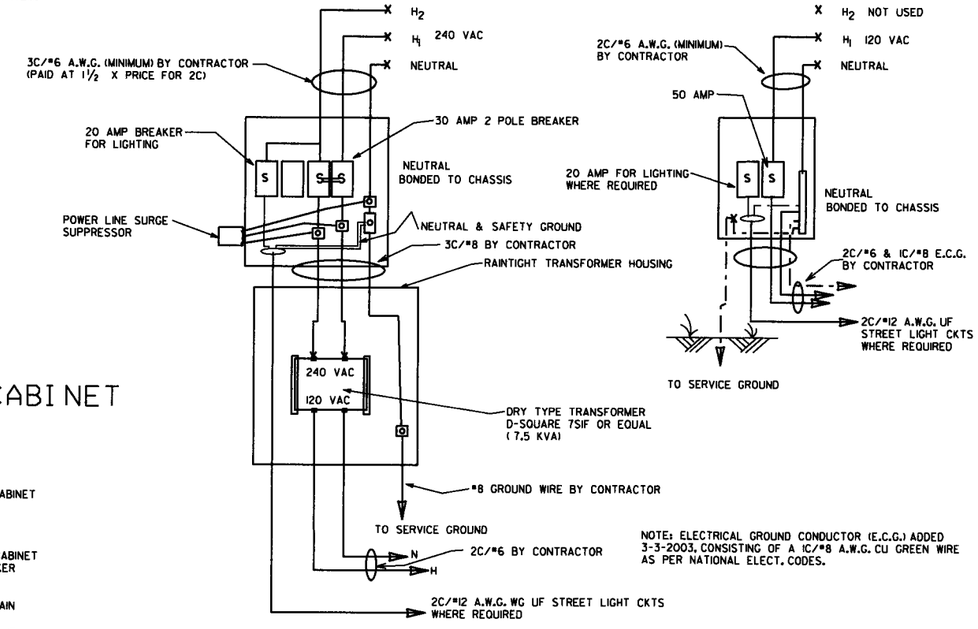


MAIN BREAKER WIRING (TYPICAL)

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.

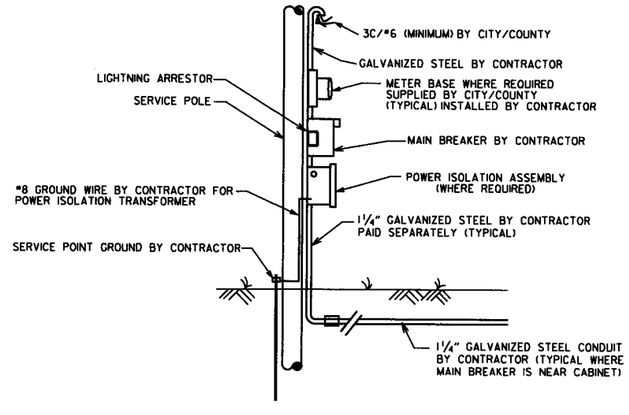
WITH POWER ISOLATION ASSEMBLY
4 CIRCUIT MAIN BREAKER

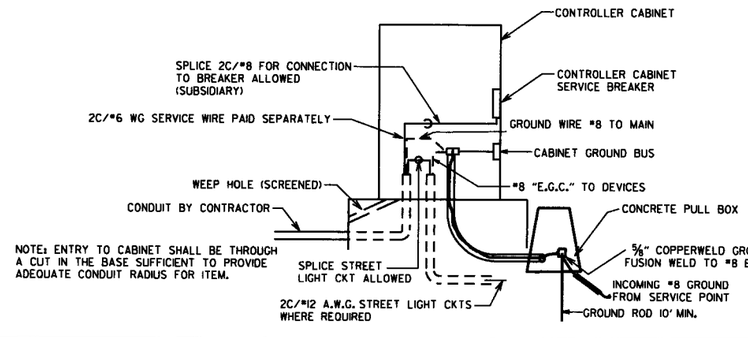
WITHOUT POWER ISOLATION ASSEMBLY
2 CIRCUIT MAIN BREAKER



NOTE: ELECTRICAL GROUND CONDUCTOR (E.C.G.) ADDED 3-3-2003, CONSISTING OF A 1C/#8 A.W.G. CU GREEN WIRE AS PER NATIONAL ELECT. CODES.

MAIN BREAKER NEAR CONTROLLER CABINET SECONDARY NOT REQUIRED





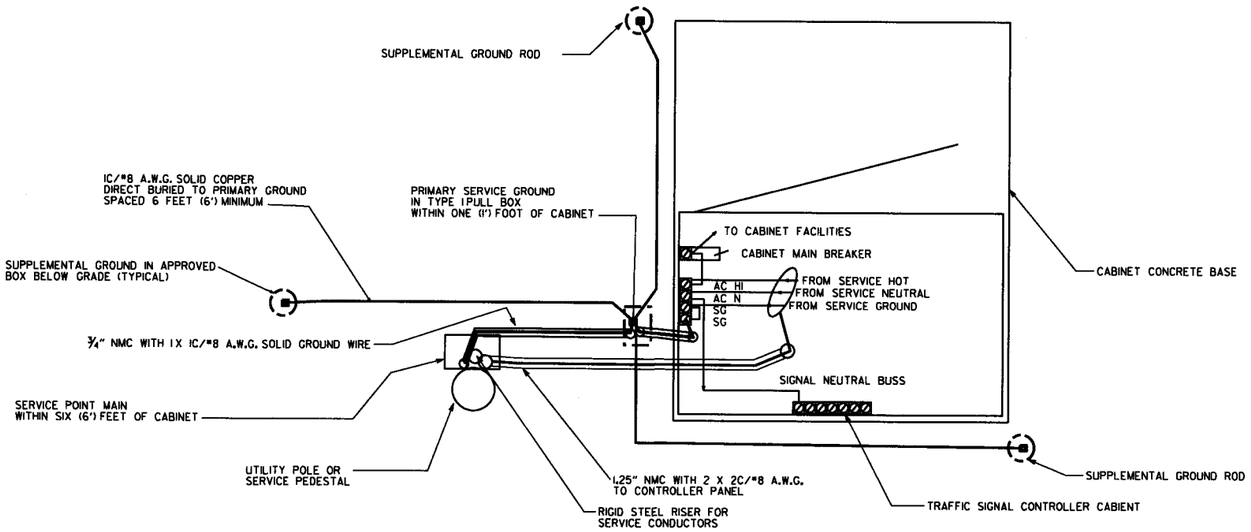
NOTE: ENTRY TO CABINET SHALL BE THROUGH A CUT IN THE BASE SUFFICIENT TO PROVIDE ADEQUATE CONDUIT RADIUS FOR ITEM.

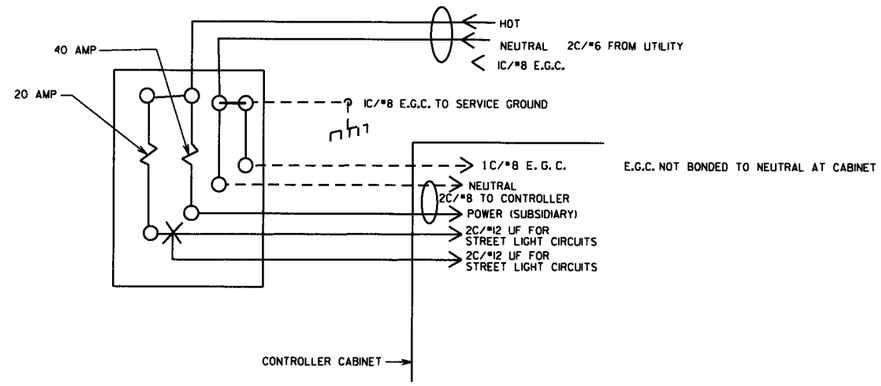
DATE	REVISION	FILMED
11-16-17	REVISED NOTES	
09-12-13	ISSUED AS STANDARD DRAWING	
04-18-13	ADDED LIGHTNING ARRESTOR	
05-21-09	REVISED GROUNDING	
07-31-08	REVISED GROUNDING	
05-03-05	ADDED EGC NOTE	
09-26-01	REVISED	
12-27-99	REVISED	
07-28-99	REVISED	
02-05-99	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

SERVICE POINT

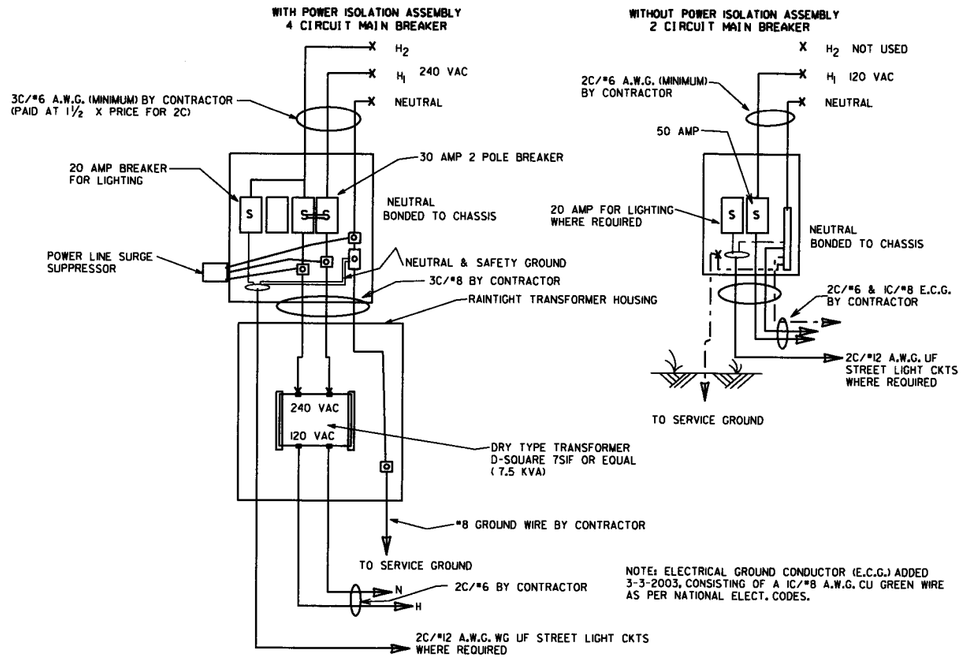
STANDARD DRAWING SD-9





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
11-16-17	REVISED NOTES	
09-12-13	ISSUED AS STANDARD DRAWING	
01-17-08	ISSUED	

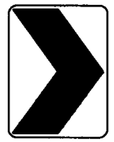
ARKANSAS STATE HIGHWAY COMMISSION

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.)

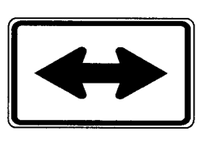
W2-1
30"X30"

S1-1
36"X36"

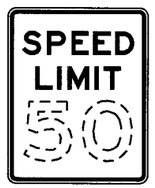
W3-2
36"X36"

County
Route Marker
M1-6
24"X24"

NOTE: REFLECTORIZED YELLOW LEGEND (COUNTY NAME, ROUTE LETTER & NUMBER) & BORDER ON A BLUE BACKGROUND.

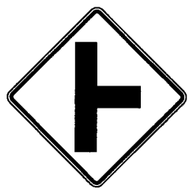


M6-4
21"X15"



R2-1
24"X30"

W1-5
30"X30"
(LT. or RT.)

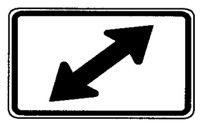


W2-2
30"X30"

W5-2
36"X36"

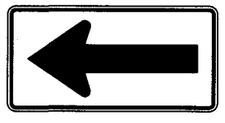
W8-3
36"X36"

R1-3P
18"X6"

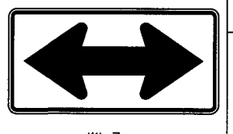


M6-5
21"X15"

W1-1
30"X30"
(LT. or RT.)



W1-6
48"X24"

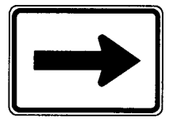


W1-7
48"X24"

W2-3
30"X30"
(LT. or RT.)

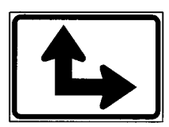
W5-3
36"X36"

W13-1P
18"X18"



M6-1
21"X15"

NOTE: ALL M6 SIGNS TO BE MADE WITH REFLECTORIZED YELLOW ARROW & BORDER WITH BLUE BACKGROUND.

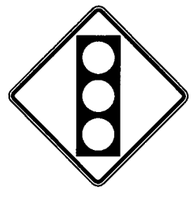


M6-6
21"X15"

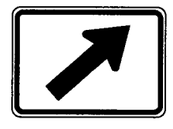
W1-2
30"X30"
(LT. or RT.)

W2-4
30"X30"

W10-1
36" DIAMETER



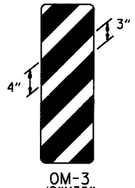
W3-3
36"X36"



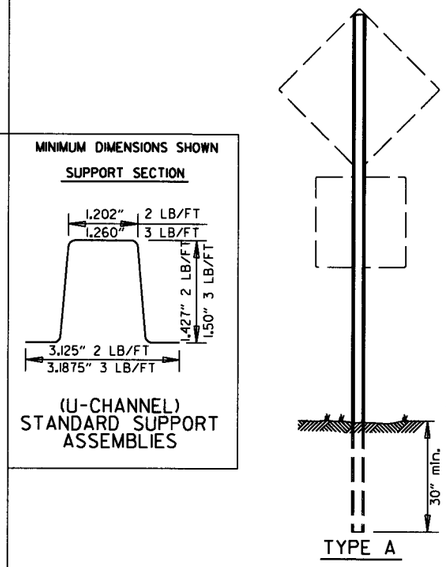
M6-2
21"X15"

S4-3P
24"X8"

S4-2P
24"X10"



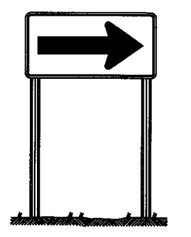
OM-3
12"X36"
(LT. or RT.)



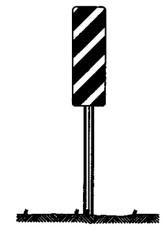
(U-CHANNEL)
STANDARD SUPPORT
ASSEMBLIES

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

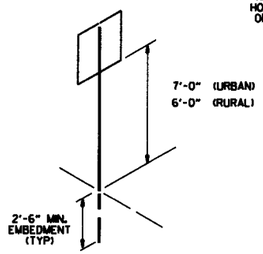
SUPPORT ASSEMBLIES

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 W14-3	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	500-8-2-74
12-21-72	ADDED M6-2,3,4,5,6	500-12-21-72
12-1-72	ISSUED	562-12-1-72

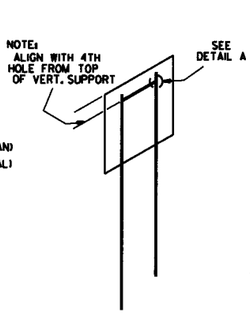
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD HIGHWAY SIGNS AND SUPPORT ASSEMBLIES

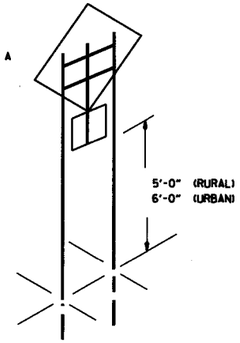
STANDARD DRAWING SHS-1



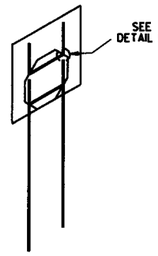
U-1



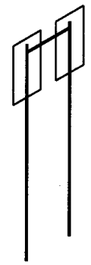
U-2



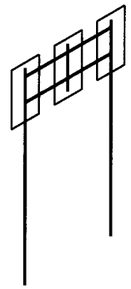
U-2 (A)



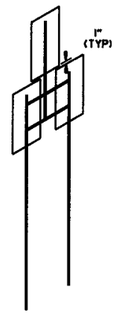
U-2 (B)



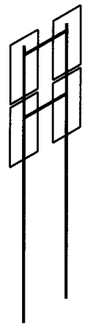
U-2 (1)



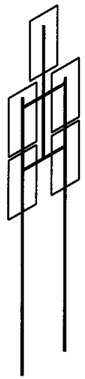
U-2 (2)



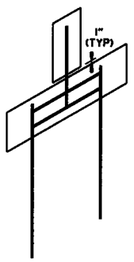
U-2 (3)



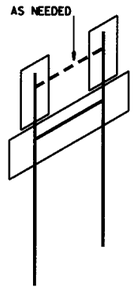
U-2 (4)



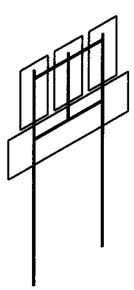
U-2 (5)



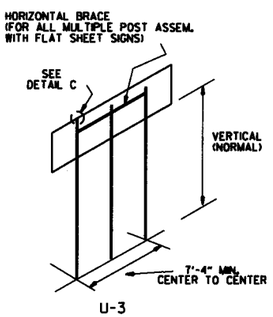
U-2 (6)



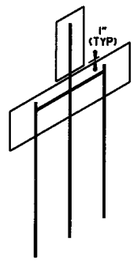
U-2 (7)



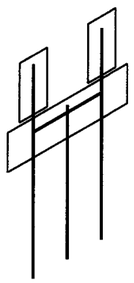
U-2 (8)



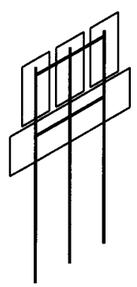
U-3



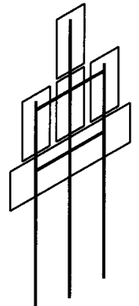
U-3 (1)



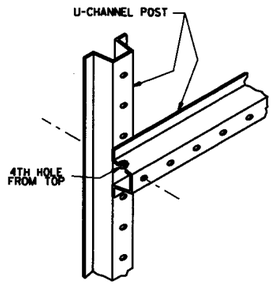
U-3 (2)



U-3 (3)

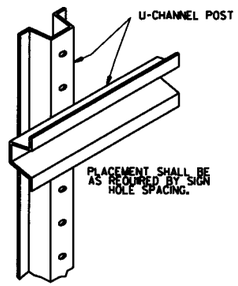


U-3 (4)



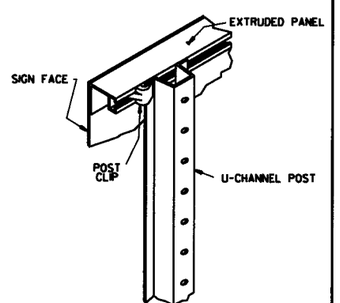
DETAIL A

SHOWING HORIZONTAL BRACE



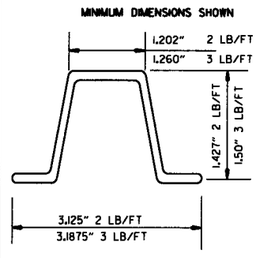
DETAIL B

SHOWING BACK-TO-BACK INSTALLATION



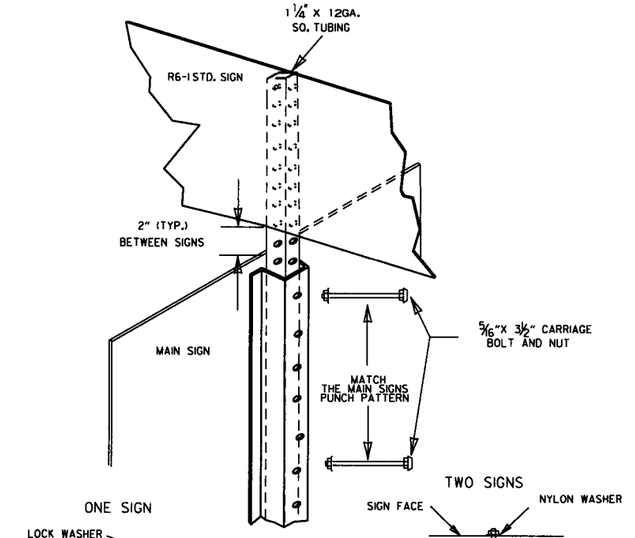
DETAIL C

SHOWING GUIDE SIGN MOUNTING WITH EXTRUDED PANELS



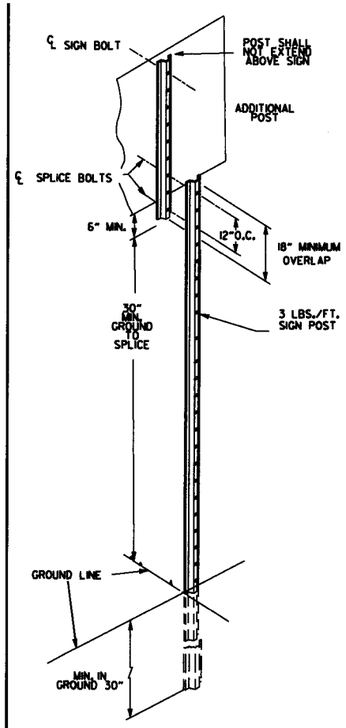
DETAIL D

U-CHANNEL POST



DETAIL E

R6-1 EXTENSION FOR U-CHANNEL POST



DETAIL F

DETAIL OF SPLICES

NOTES:

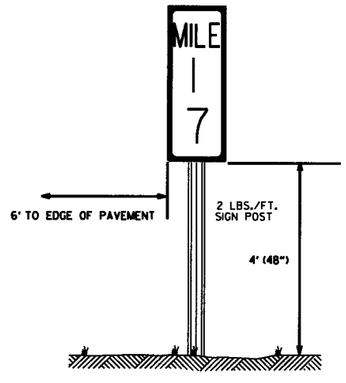
SIGNS AT LEAST 8' IN LENGTH MAY BE INSTALLED ON THREE 3 LB. POST. IN NO CASE SHALL THERE BE MORE THAN TWO 3 LB. POSTS WITHIN A 7' PATH.

SPLICES NECESSARY TO ATTAIN PROPER MOUNTING HEIGHT SHALL BE AS SHOWN IN DETAIL (F).

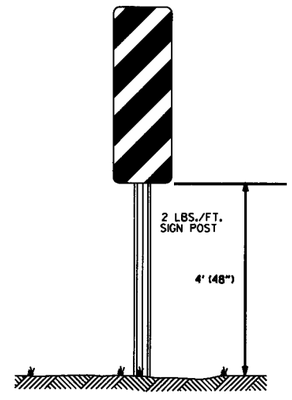
NORMAL INSTALLATIONS WILL REQUIRE 5/16" DIA. CARRIAGE BOLTS TO MOUNT SIGNS TO POST AND TO ASSEMBLE THE VARIOUS POST SUPPORTS.

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

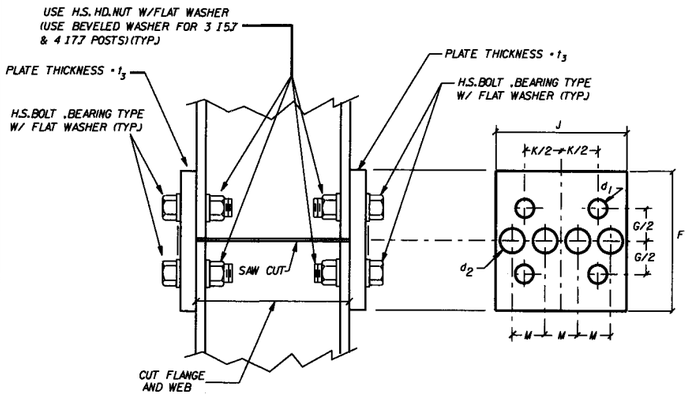
DATE	REVISION	FILMED
2-27-14	REVISED NOTES.	
9-12-13	REVISED U-2(3), U-2(6), U-3(1), DETAIL D; ADDED DETAILS E & F; ADDED TYPICAL MARKERS	
10-9-03	REMOVED ROUND POST & REVISED SPACING	
10-12-95	MOVED UPPER SPLICE	
6-8-95	REVISED SPLICE DETAIL	6-8-95
2-2-95	REDRAWN	2-2-95

ARKANSAS STATE HIGHWAY COMMISSION

U-CHANNEL POST ASSEMBLIES

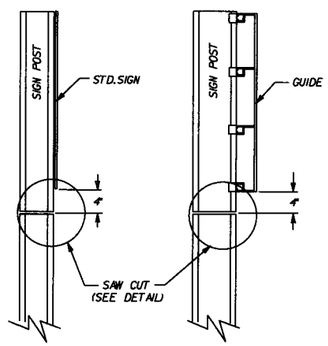
STANDARD DRAWING SHS-2

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"	1 1/32"	4 1/4"	2"		4"	2 1/4"	1"	3/16"	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"	9/16"	1 1/4"	3/8"	5/8" x 2 1/4"	2.51
W 8X18	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"	1 3/32"	5"	2 1/2"		5 1/4"	2 3/4"	1 1/4"	13/16"	1 1/16"	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												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												6"	3"		6 1/2"	3 1/2"	1 5/8"	1 3/16"	1 5/16"	1/2"	3/4" x 2 1/4"	4.47
W 12X26																						



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.

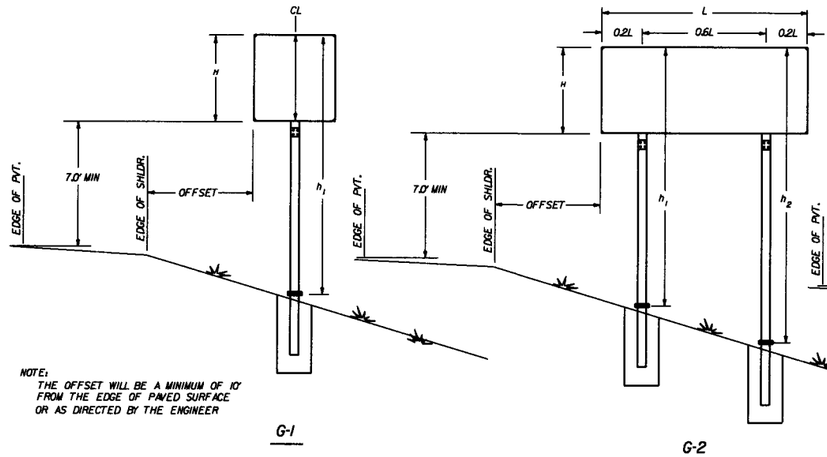
NOTE: BOLT HOLES USED IN THE MOUNTING OF STANDARD SIGNS SHALL BE LOCATED IN THE FLANGE ADJACENT TO THE NEAR EDGE OF PAVEMENT FOR SINGLE POST ASSEMBLIES AND IN THE OUTSIDE FLANGES FOR MULTIPLE POST ASSEMBLIES.



NOTE: POST SHALL BE SAW CUT AFTER GALVANIZING AND THE CUT SURFACE TREATED, AFTER PLATE IS INSTALLED AND ALL BOLTS FULLY TIGHTENED, WITH AN APPROVED ZINC SOLDER MEETING THE FEDERAL SPEC. O-G-93 (STICK ONLY).

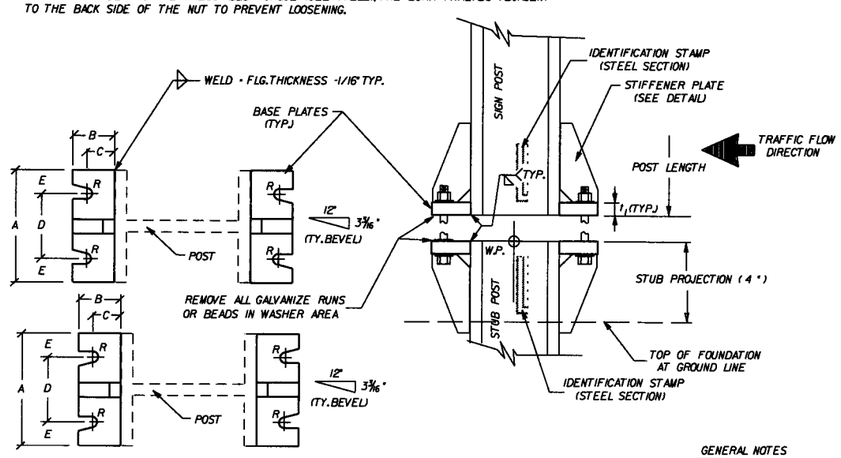
STANDARD SIGNS GUIDE SIGNS

FUSE PLATE DETAILS

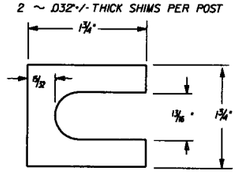


NOTE:
THE OFFSET WILL BE A MINIMUM OF 10' FROM THE EDGE OF PAVED SURFACE OR AS DIRECTED BY THE ENGINEER

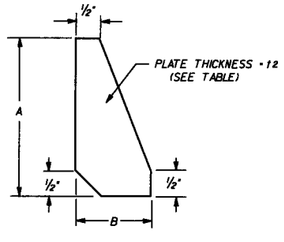
NOTE: SECTIONS SHOWN ARE FOR INSTALLATION ON THE RIGHT SHOULDER AND IN THE GORE. BOLT HOLES IN BASE PLATE ARE SLOTTED AND BEVELED AS SHOWN. USE H.S. BOLTS WITH HEX HD., HEX NUT AND THREE FLAT WASHERS FOR EACH BOLT. SEE TABLE FOR BOLT DIA. AND TORQUE.
NOTE: ASSEMBLE SIGN POST TO STUB POST USING THE BOLTS 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.



FURNISH 2 ~ .012"+/- THICK AND 2 ~ .032"+/- THICK SHIMS PER POST



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.

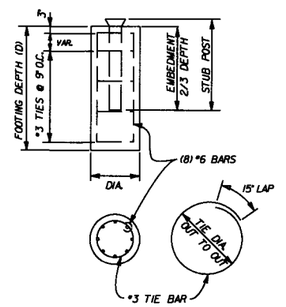
REFER TO THE PLANS FOR FOOTING DIMENSIONS.

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

FOOTINIG 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

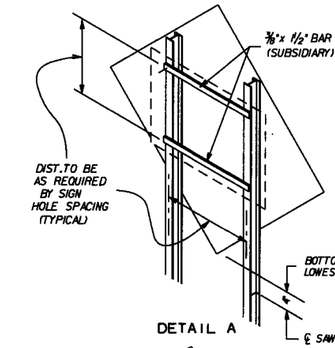
SIGN POST AND STUB POST

DATE	REVISION	FILMED
9-12-13	ISSUED	

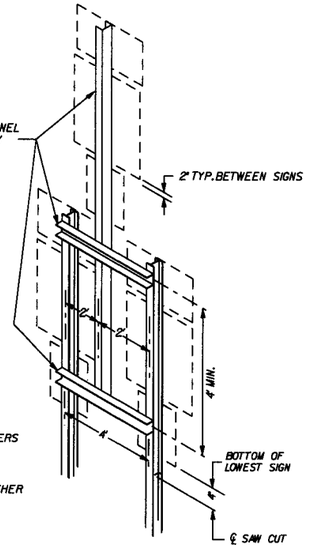
ARKANSAS STATE HIGHWAY COMMISSION

DETAIL OF BREAKAWAY SIGN SUPPORTS FOR GUIDE SIGNS

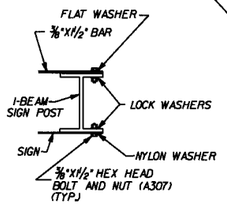
STANDARD DRAWING SHS-3



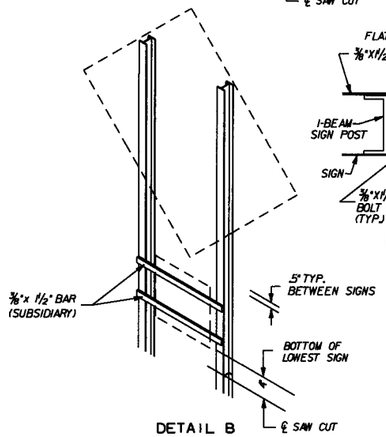
DETAIL A



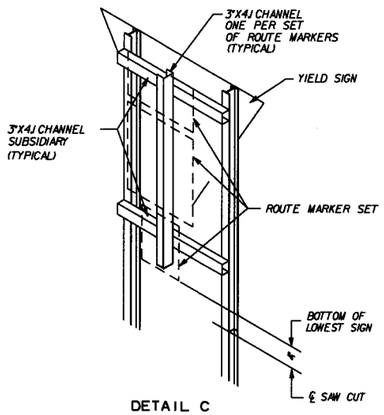
DETAIL D



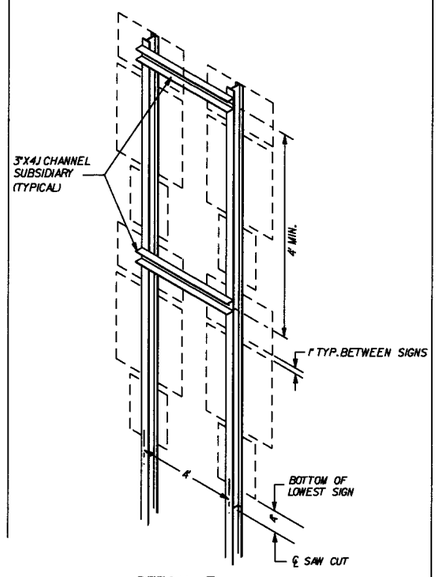
DETAIL F



DETAIL B



DETAIL C



DETAIL E

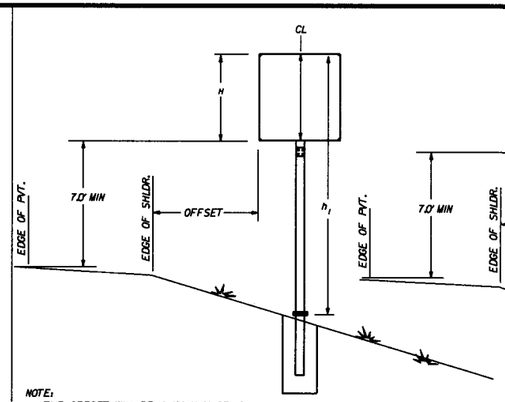
NOTE

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.

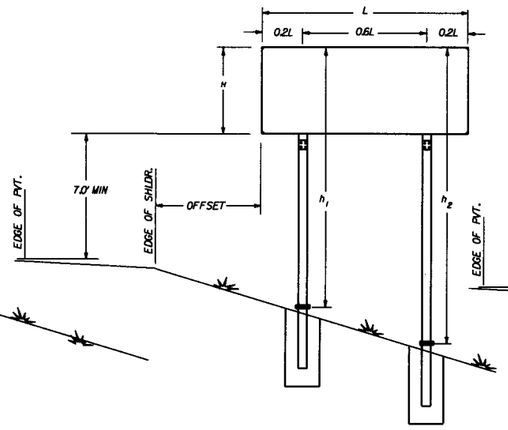
REFER TO THE P.C. RUTLEDGE FORMULA ON PAGE 58 OF THE AASHTO PUBLICATION "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.

ALL BOLT HOLES SHALL BE 1/8" DIA. UNLESS OTHERWISE SHOWN.

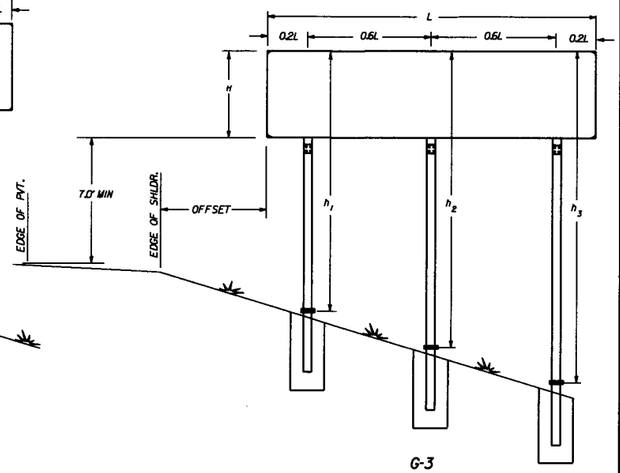


G-1

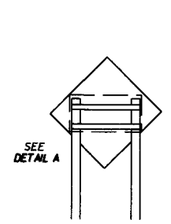
NOTE:
THE OFFSET WILL BE A MINIMUM OF 10' FROM THE EDGE OF PAVED SURFACE OR AS DIRECTED BY THE ENGINEER.



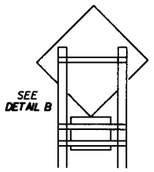
G-2



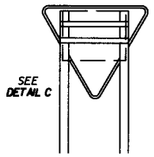
G-3



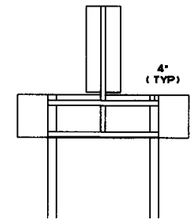
G2-1



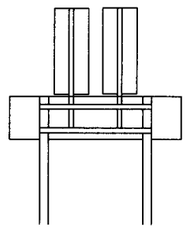
G2-2



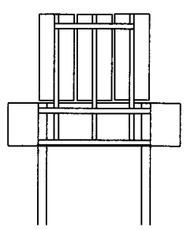
G2-3



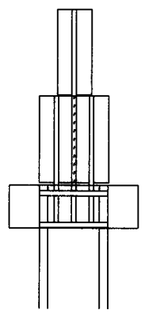
G2-4



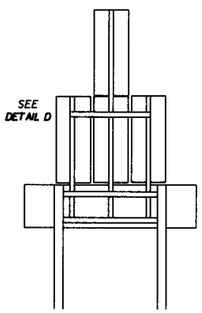
G2-5



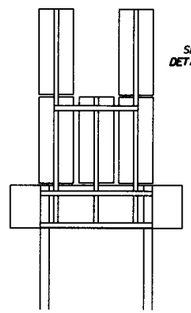
G2-6



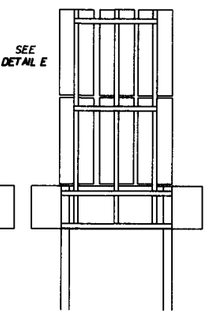
G2-7



G2-8



G2-9

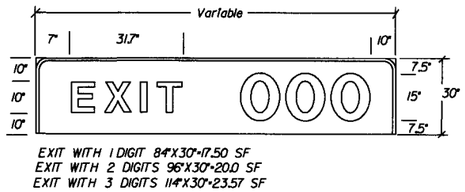


G2-10

			ARKANSAS STATE HIGHWAY COMMISSION
			DETAIL OF BREAKAWAY SIGN SUPPORTS FOR STANDARD SIGNS
9-12-13	ISSUED		STANDARD DRAWING SHS-4
DATE	REVISION	FILMED	

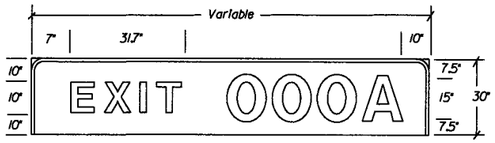
TYPICAL DETAIL

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

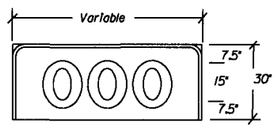


EXIT WITH 1 DIGIT PLUS "A"OR"B" 96"X30"=20.0 SF
EXIT WITH 2 DIGITS PLUS "A"OR"B" 114"X30"=23.57 SF
EXIT WITH 3 DIGITS PLUS "A"OR"B" 126"X30"=26.25 SF

TYPE C

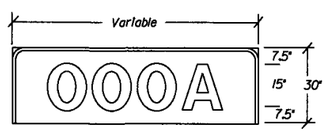
EXITS WITH 1 DIGIT PLUS "A"&"B" 132"X30"=27.50 SF
EXITS WITH 2 DIGITS PLUS "A"&"B" 150"X30"=31.25 SF
EXITS WITH 3 DIGITS PLUS "A"&"B" 168"X30"=35.00 SF

TYPE D



1 DIGIT 24"X30" =5.0 SF
2 DIGITS 42"X30" =8.75 SF
3 DIGITS 60"X30" =12.50 SF

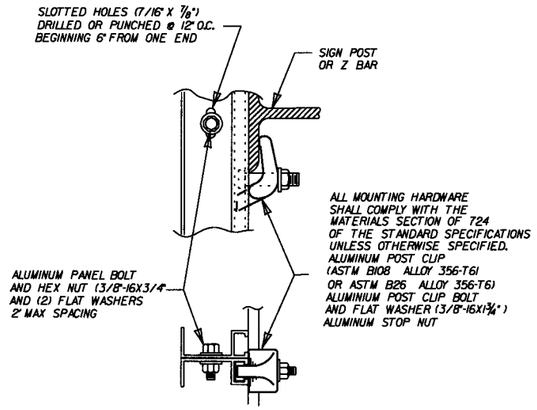
TYPE E

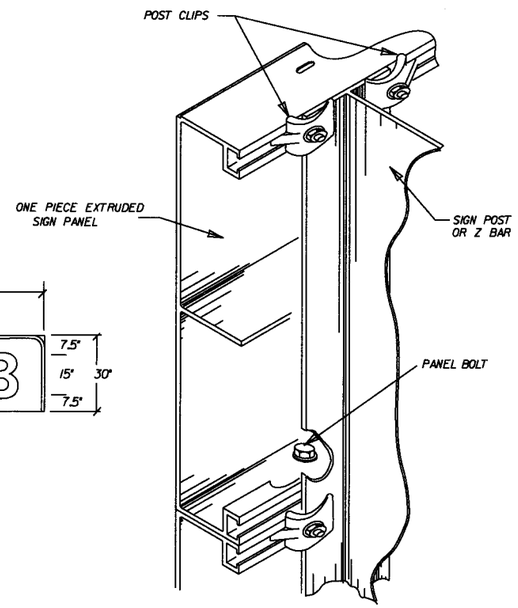


1 DIGIT PLUS "A"OR"B" 42"X30"=8.75 SF
2 DIGITS PLUS "A"OR"B" 60"X30"=12.50 SF
3 DIGITS PLUS "A"OR"B" 78"X30"=16.25 SF

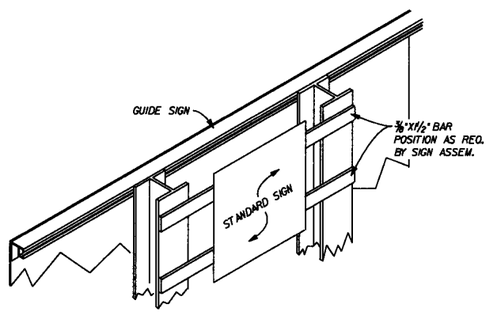
EXIT PANEL DETAILS

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".

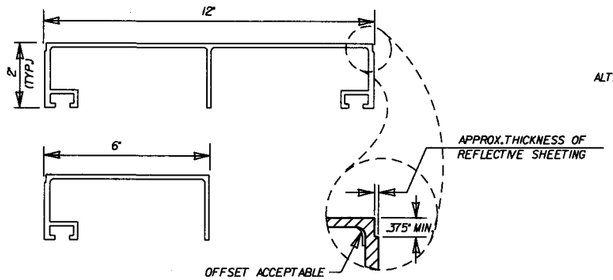




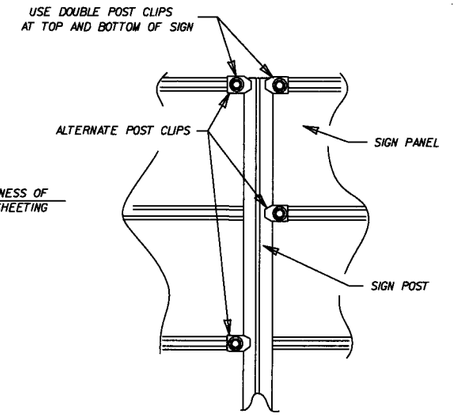
MOUNTING HARDWARE



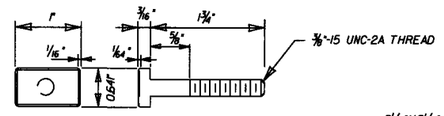
SECONDARY SIGN INSTALLATION ON BACKSIDE OF GUIDE SIGN



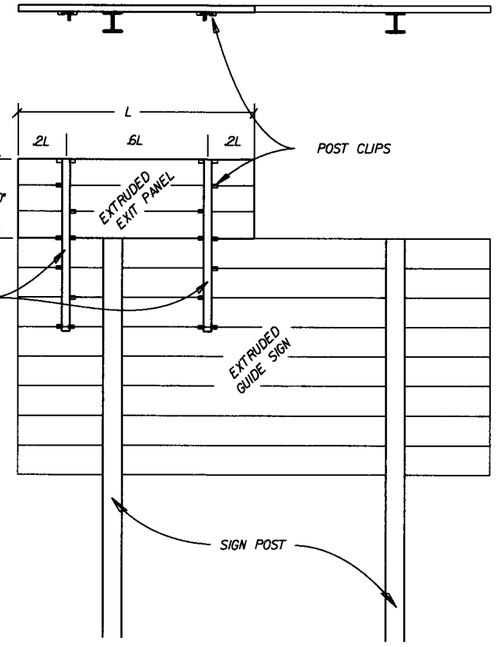
ONE PIECE EXTRUDED SIGN PANELS



POST CLIP PLACEMENT



POST CLIP BOLT

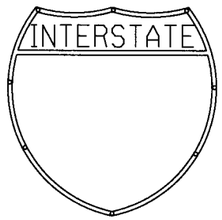


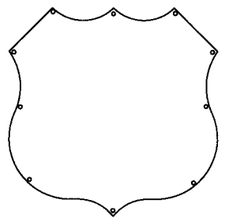
			ARKANSAS STATE HIGHWAY COMMISSION
			DETAILS OF GUIDE SIGN PANELS
9-12-13	ISSUED		STANDARD DRAWING SHS-5
DATE	REVISION	FILMED	

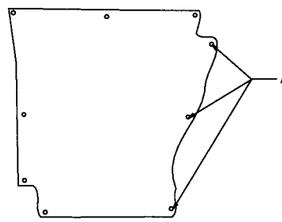
THE CONTRACTOR SHALL DRILL AND POP-RIVET LEGEND, SHIELDS, ARROWS, OR OTHER COPY AS SHOWN.

MOUNTING DETAILS FOR DEMOUNTABLE LEGEND ON GUIDE SIGNS

DIRECT APPLIED BORDER







DIRECT APPLIED BORDER

AD-68 RIVETS

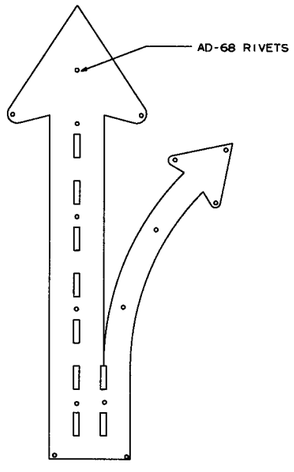
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

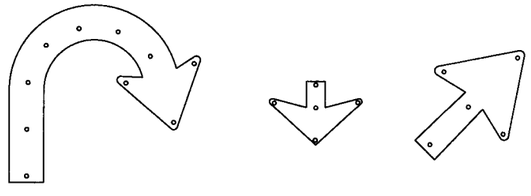
AD-68 RIVETS

a b c d e f g h i j k l m n o p q r s t u v w x y z

AD-68 RIVETS

0 1 2 3 4 5 6 7 8 9 1/4 1/2 3/4





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.

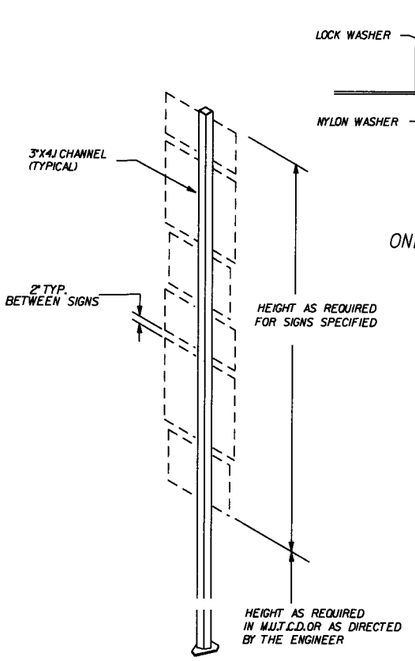
THE BACKGROUND ON ALL GUIDE SIGNS AND STANDARD SIGNS SHALL BE CONSTRUCTED USING TYPE III SHEETING.

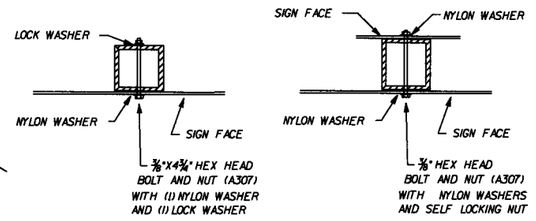
TYPE IX SHEETING FOR BORDER, LEGEND, SHIELDS, ARROWS, OR OTHER COPY SHALL BE ORIENTED VERTICALLY AS PER MANUFACTURERS' DATUM MARKS, ORIENTATION MARKS, OR OTHER RECOMMENDATIONS.

SIGN LEGEND, SHIELDS, ARROWS OR OTHER COPY SHALL BE APPLIED WITH RIVETS ONLY.

NO OTHER METHOD OF APPLYING CHARACTERS IS ALLOWED.

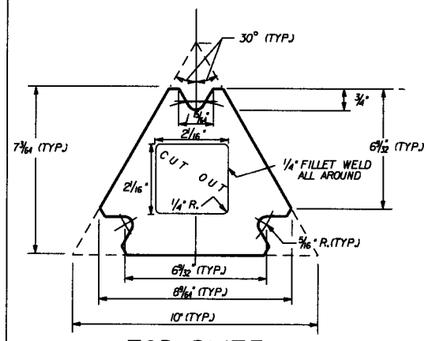
			ARKANSAS STATE HIGHWAY COMMISSION
			MOUNTING DETAILS FOR DEMOUNTABLE LEGEND ON GUIDE SIGNS
9-12-13 DATE	ISSUED REVISION	FILMED	STANDARD DRAWING SHS-6



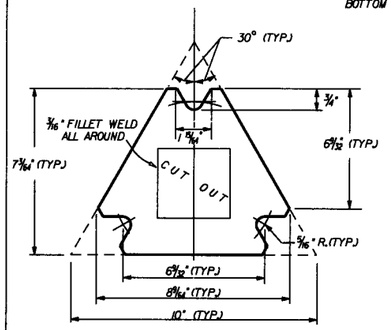


CHANNEL SHALL BE FULL LENGTH OF RECTANGULAR AND SQUARE SIGNS AND SHALL EXTEND 1½" BEYOND BOLT HOLES ON DIAMOND OR IRREGULAR SHAPED SIGNS.

MOUNTING HARDWARE



TOP PLATE



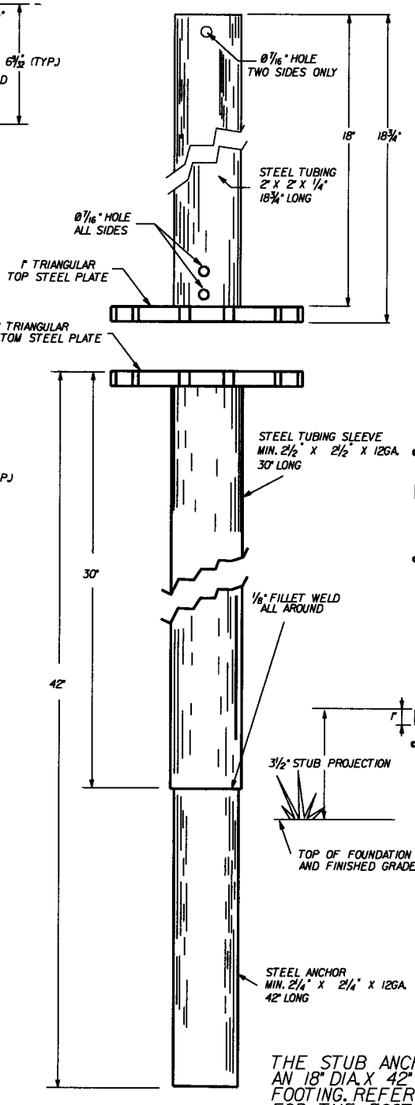
BOTTOM PLATE

GENERAL NOTES:

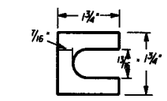
THE TOP PLATE OF TRIANGULAR SLIP BASES SHALL HAVE THE SAME EXTERIOR DIMENSIONS AS THE BOTTOM PLATE.

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.

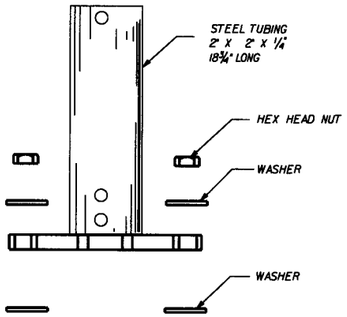


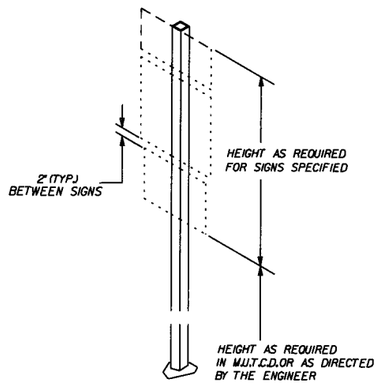
THE STUB ANCHOR SHALL BE SET IN AN 18" DIA. X 42" DEEP CONCRETE FOOTING. REFER TO STD.DRWG. SHS-3 FOR THE FOOTING DETAILS.



FURNISH (2) .012" THICK AND (2) .032" THICK SHIMS PER POST

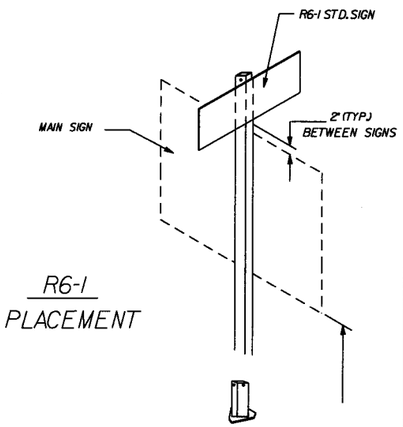
SHIM DETAIL





TYPE-I

BASIS OF ESTIMATE
APPROX. 100 lbs STEEL



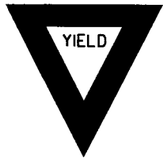
R6-1 PLACEMENT

			ARKANSAS STATE HIGHWAY COMMISSION
			DETAIL OF OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS
9-12-13 DATE	ISSUED REVISION	FILMED	STANDARD DRAWING SHS-7

R1-1

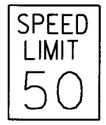
STANDARD 30"X30"
EXPRESSWAY 36"X36"
SPECIAL 48"X48"

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"

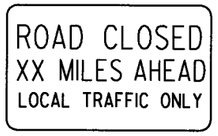
R5-1

STD. 30"X30"
EXPWY. 36"X36"
SPECIAL 48"X48"

R11-2

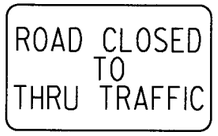
48"X30"

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"

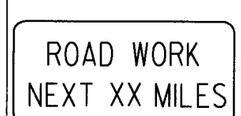
W8-11

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.

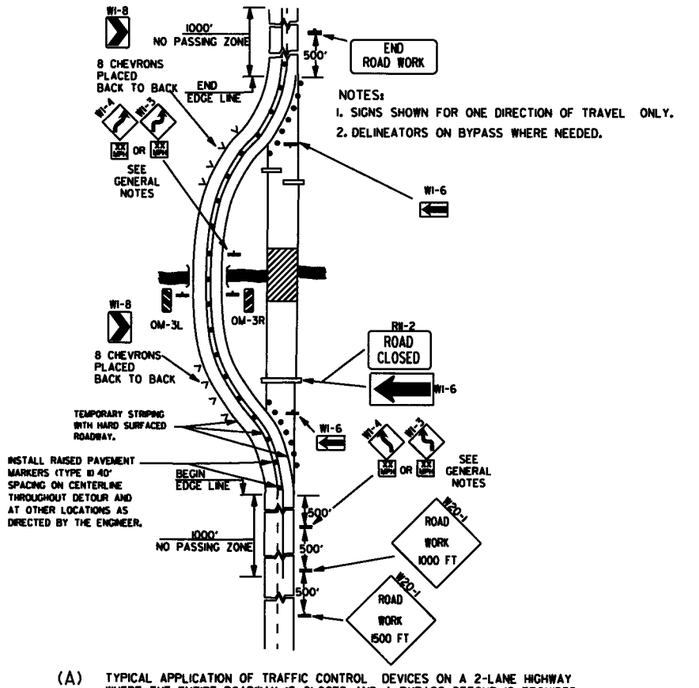
- NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED FOR ALL PROJECTS.

DATE	REVISION	FILMED
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	
8-18-04	REVISED NOTES	
10-9-03	REVISED NOTE 1	
11-16-01	REVISED NOTE 7	
9-28-00	REVISED NOTE	
8-18-98	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	

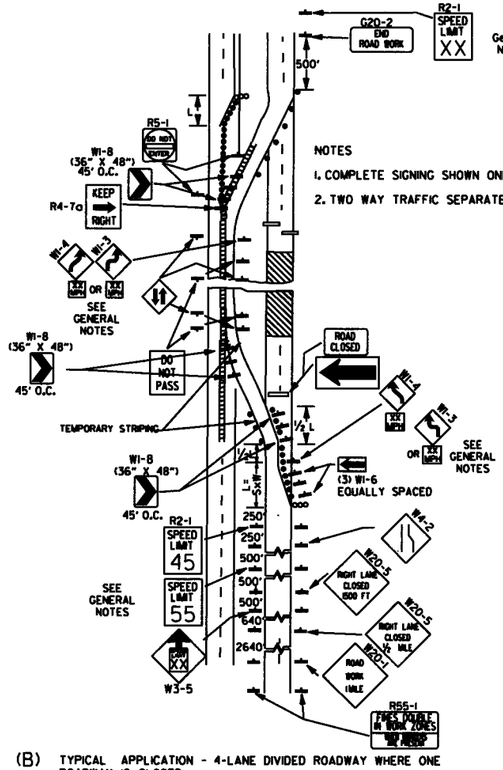
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

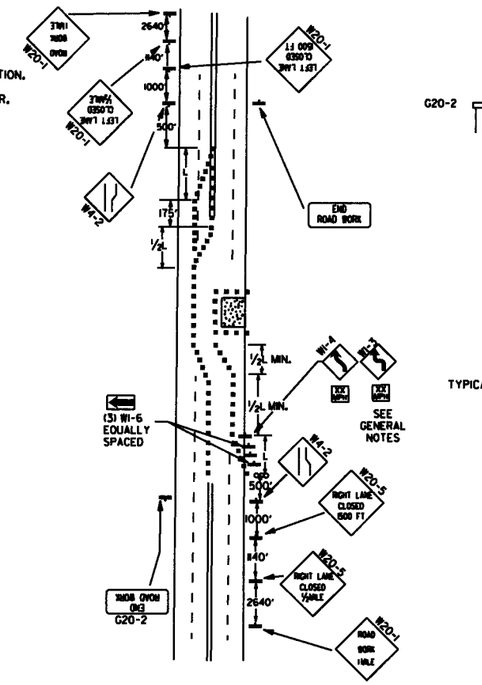
STANDARD DRAWING TC-1



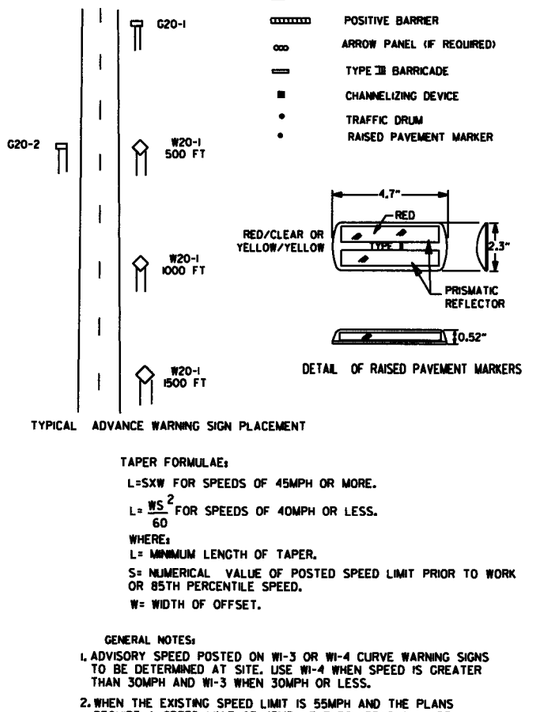
(A) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON A 2-LANE HIGHWAY WHERE THE ENTIRE ROADWAY IS CLOSED AND A BYPASS DETOUR IS PROVIDED.



(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:

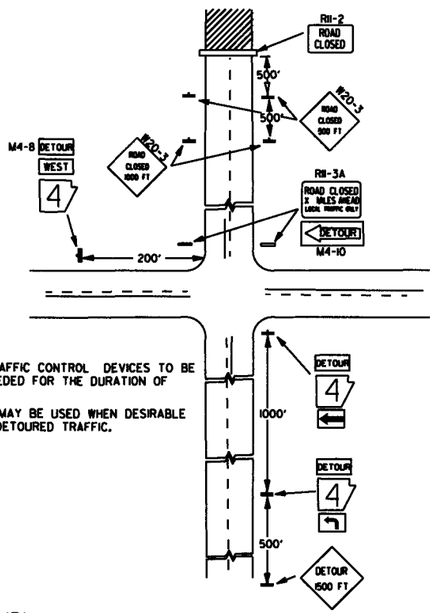
L= MINIMUM LENGTH OF TAPER.

S= NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85TH PERCENTILE SPEED.

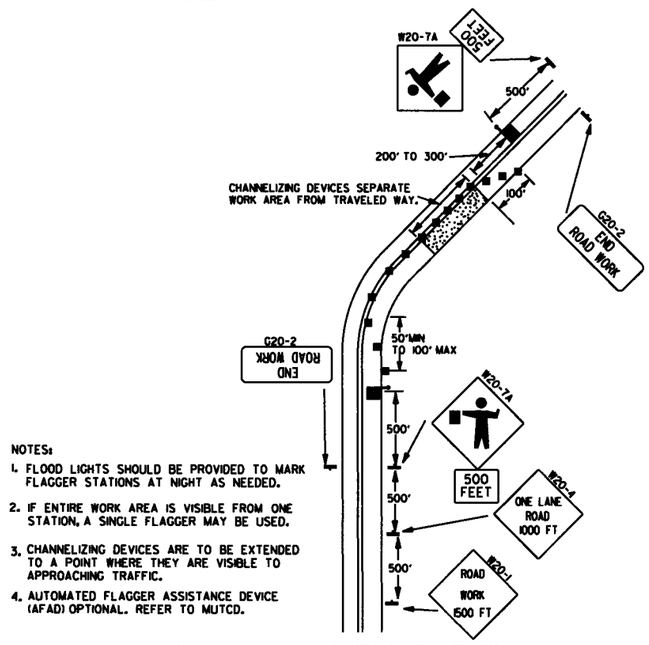
W= WIDTH OF OFFSET.

GENERAL NOTES:

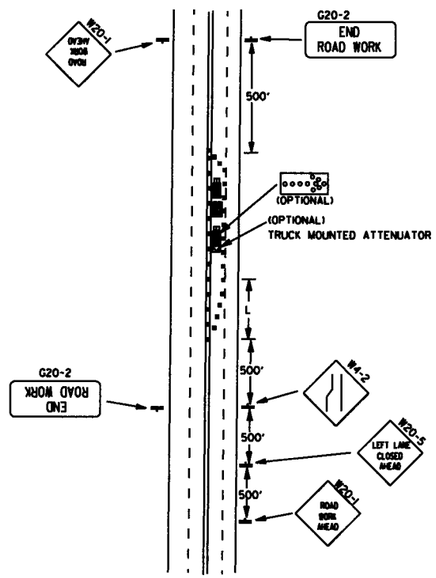
1. ADVISORY SPEED POSTED ON W1-3 OR W1-4 CURVE WARNING SIGNS TO BE DETERMINED AT SITE. USE W1-4 WHEN SPEED IS GREATER THAN 30MPH AND W1-3 WHEN 30MPH OR LESS.
2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(55) SHALL BE OMITTED AND THE W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-1 45MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1 MILE 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 1 MILE 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.
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 AHTD QUALIFIED PRODUCTS LIST.



(D) TYPICAL APPLICATION - ROADWAY CLOSED BEYOND DETOUR POINT.



(E) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON 2-LANE HIGHWAY WHERE ONE LANE IS CLOSED AND FLAGGING IS PROVIDED.



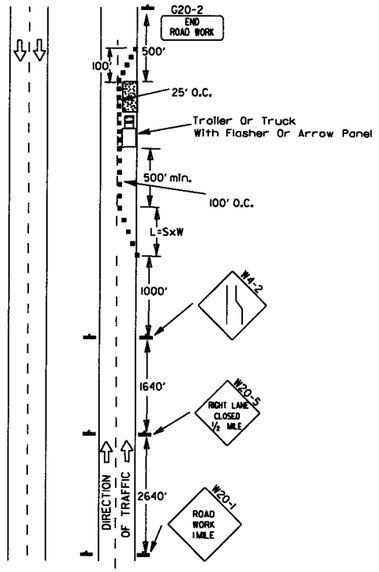
(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

DATE	REVISION	FILMED
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	

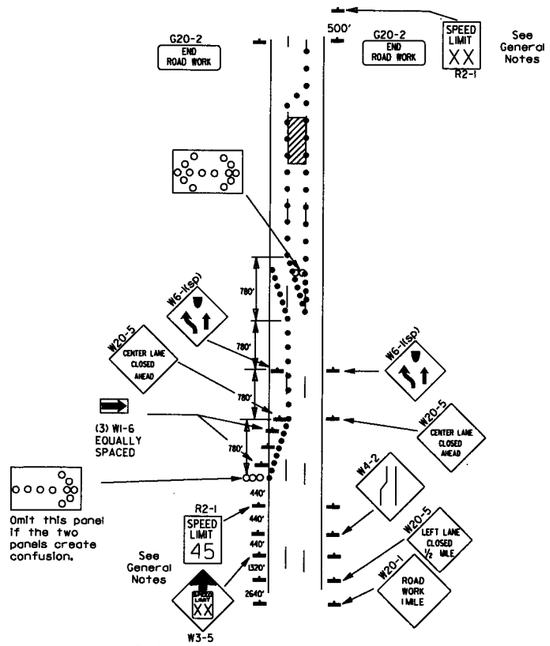
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

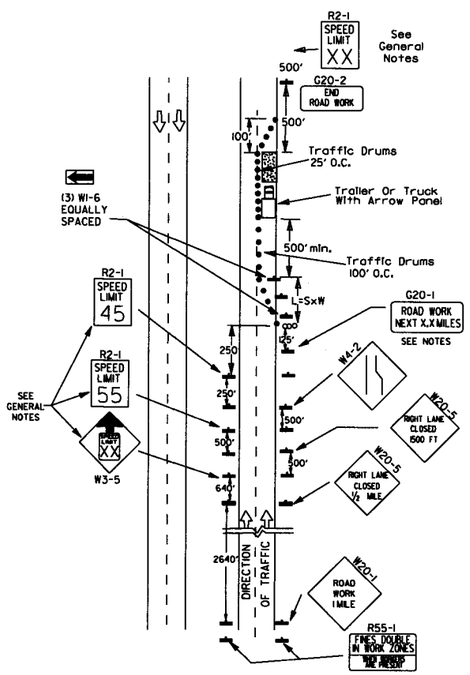
STANDARD DRAWING TC-2



(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.



(C) Typical application - construction operations of intermediate to long term duration on a 4-lane divided roadway where half of the roadway is closed.

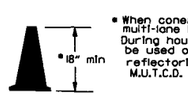
KEY:

- ○○○ Arrow Panel (If Required)
- ■ Channelizing Device
- ● Traffic drum

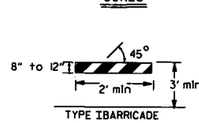
GENERAL NOTES:

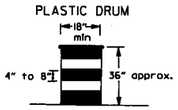
1. A speed limit reduction may be implemented ONLY when designated in the plan or when recommended by the Roadway Design Division.
2. When the existing speed limit is 55mph and the plans require a speed limit of 45mph, the R2-1(55) shall be omitted and the W3-5 shall be installed at that location. Additional R2-1 45mph speed limit signs shall be installed at a maximum of 1 mile 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 1 mile 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 NCHRP-350 or 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.

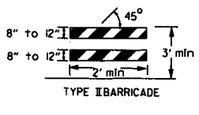
Channelizing devices

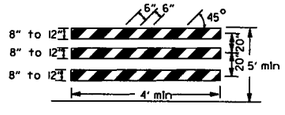


- When cones are used on freeways and multi-lane highways, they shall be 28" min. During hours of darkness, 28" cones shall be used on all roadways, and shall be reflectorized in accordance with the M.U.T.C.D.

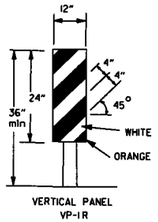




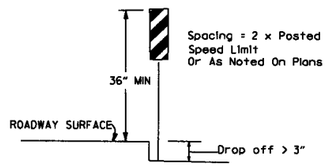


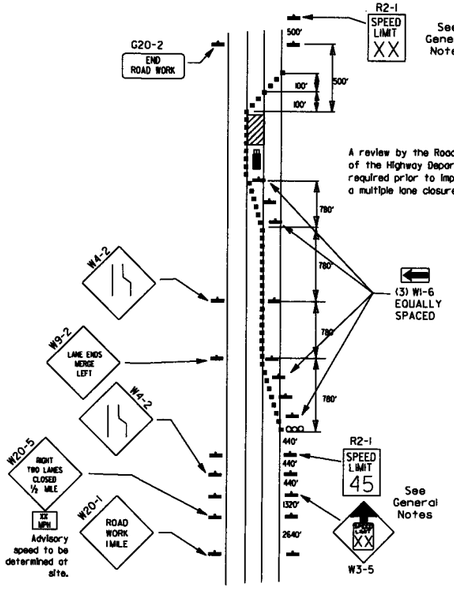


NOTE:
For all road closures, the Type III barricades shall be of sufficient length to extend across entire roadway.



VERTICAL PANEL PLACEMENT





A review by the Roadway Design Division of the Highway Department will be required prior to implementing a multiple lane closure.

Advisory speed to be determined at site.

(D) Typical application - closing multiple lanes of a multilane highway.

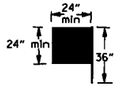
TRAFFIC CONTROL DEVICES
FOR
VERTICAL PAVEMENT DIFFERENTIALS

VERTICAL DIFFERENTIAL	LOCATIONS	TRAFFIC CONTROL
1" to 3"	Centerline, lane lines	W8-11
1" to 3"	Edge of shoulder	W8-9
Greater than 3"	Lane lines	Standard lane closure required
Greater than 3"	Edge of traveled lane	*RSP-1 and vertical panels, drums or concrete barrier
Greater than 3"	Edge of shoulder	*Vertical panels, drums or concrete barrier

- When shown on the plans concrete barrier will be used.

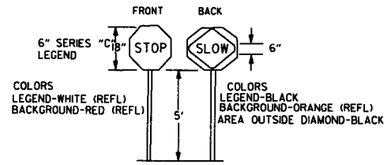
When the shoulder area is used as part of the traveled lane and there is insufficient width to place drums on the remaining shoulder width, then vertical panels shall be used.

FLAG

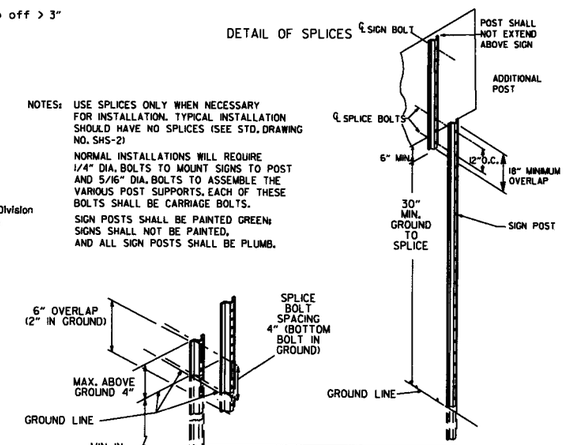


Flag shall be of good grade red material

STOP SLOW PADDLE



DETAIL OF SPLICES



NOTES: USE SPLICES ONLY WHEN NECESSARY FOR INSTALLATION. TYPICAL INSTALLATION SHOULD HAVE NO SPLICES (SEE STD. DRAWING NO. SHS-2)

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.

DATE	REVISION	FILMED
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	

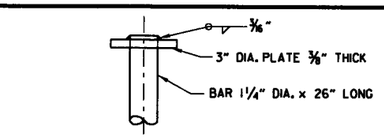
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

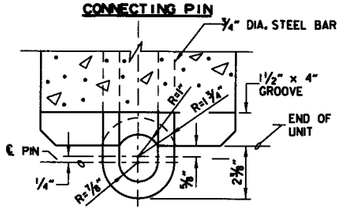
STANDARD DRAWING TC-3

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" MIN. CLEAR TO BAR, 5'-1" BAR W/(4) 1 1/2" R BENDS & MIN. 1'-0" OVERLAP, 1'-6"
V-1	VERTICAL IN BARRIER 3) EACH END & (2) AT EACH DRAIN SLOTS	#5	(16)	TOTAL LENGTH 4'-9", 2 3/16" R, 12°, 9 1/2", 4 3/8", 2'-1 3/8"

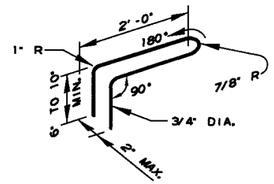


CONNECTING PIN

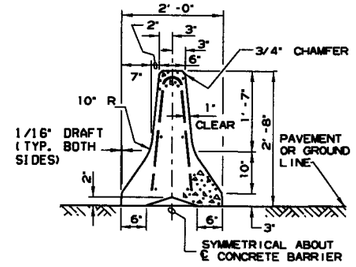


SECTION E-E

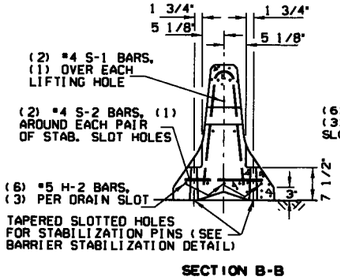
CONNECTION DETAILS



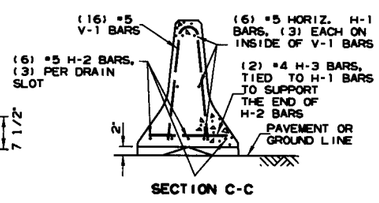
CONNECTION LOOP



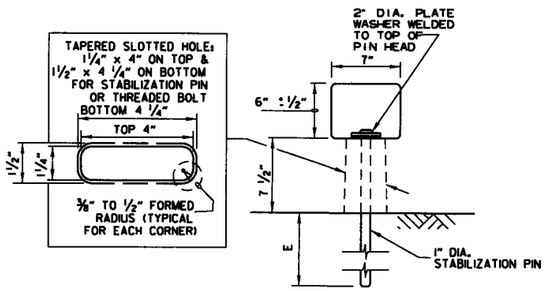
SECTION A-A



SECTION B-B



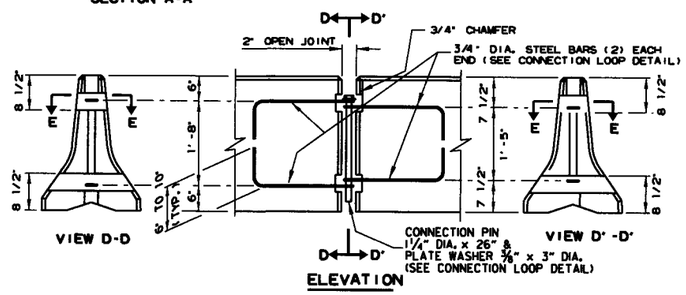
SECTION C-C



BARRIER STABILIZATION DETAIL

ROADWAY SECTION

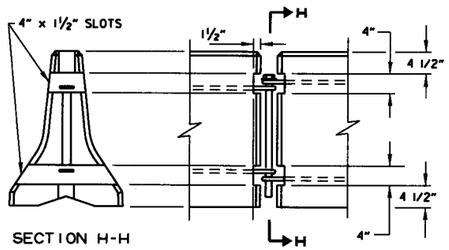
(E) 4" - Concrete Pavement
8" - Asphalt Pavement
12" - Shoulder Areas



VIEW D-D

VIEW D'-D'

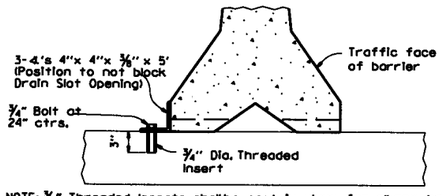
ELEVATION



SECTION H-H

ELEVATION

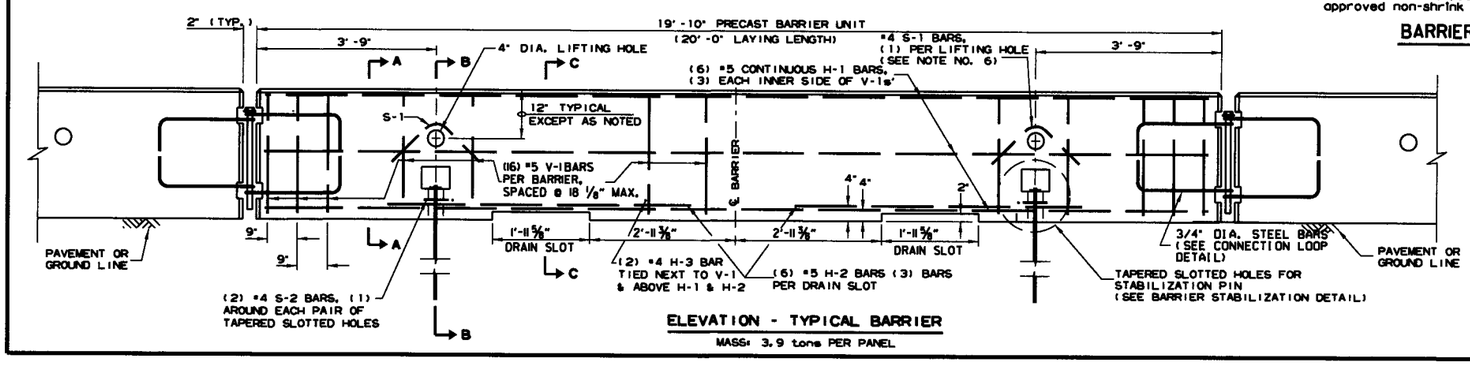
BARRIER REMOVAL SLOT DETAILS



NOTE: 3/4" 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 - 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 walls 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 AHTD 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 NCHRP-350 test level 3 or 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 NCHRP Report 350 or 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 NCHRP Report 350 or Manual For Assessing Safety Hardware (MASH) and include a copy of the Federal Highway Administration's (FHWA) approval letter with all attachments. Precast concrete barrier units shall be fabricated and installed in accordance with crash testing and documentation provided in the FHWA approval letter. 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.

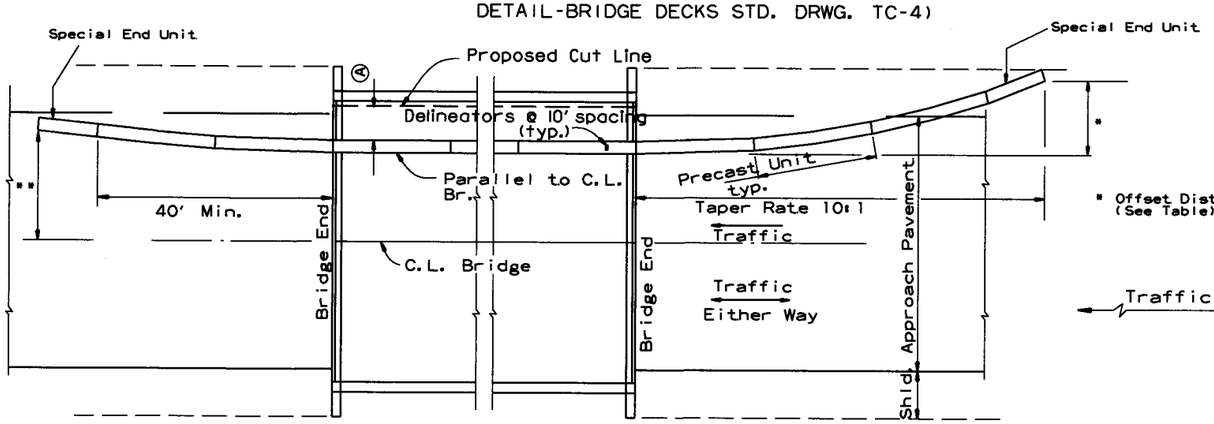
DATE	REVISION	FILMED
2-27-14	REVISED BARRIER STABILIZATION DETAIL	
10-15-09	ADDED REFERENCE TO MASH	
8-5-09	REV. NOTE 3 CONCERNING DRAIN SLOTS	
11-29-07	REVISED NOTE 3	
5-25-06	DELETED GENERAL NOTE 7	
11-18-04	REVISED BARRIER STABILIZATION DETAIL BRIDGE DECKS	
4-10-03	REVISED GENERAL NOTE 2	
8-22-02	ISSUED NEW DRAWING	

ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION - TEMPORARY PRECAST BARRIER

STANDARD DRAWING TC-4

Ⓐ 4 feet or greater preferred. If less than 4 feet, Precast Units shall be connected to slab (SEE BARRIER STABILIZATION DETAIL-BRIDGE DECKS STD. DRWG. TC-4)

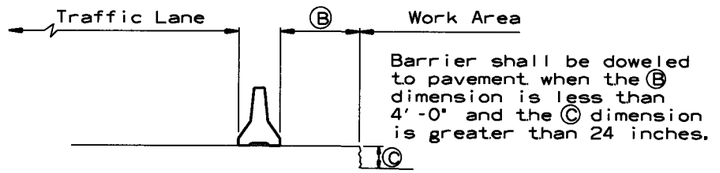


BARRIER PLACEMENT ALONG BRIDGE WITH OFFSET

No Scale

** Offset Distance for Two Way Traffic Only

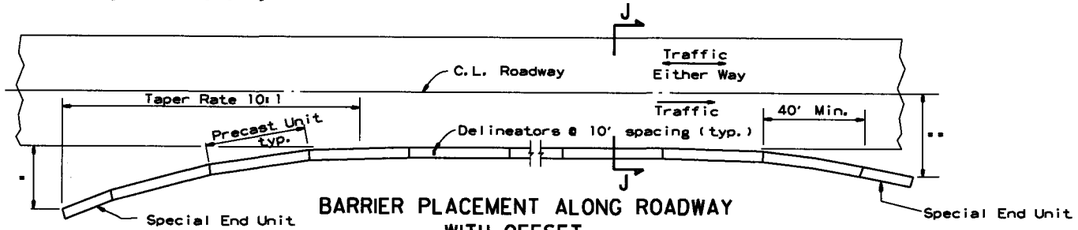
* Offset Distance (See Table)



Barrier shall be doweled to pavement when the Ⓑ dimension is less than 4'-0" and the Ⓒ dimension is greater than 24 inches.

SECTION J-J

No Scale



BARRIER PLACEMENT ALONG ROADWAY WITH OFFSET

No Scale

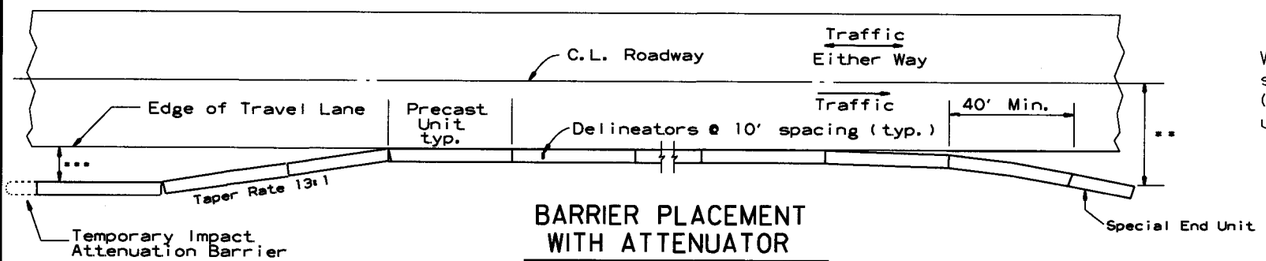
* Offset Distance (See Table)

** Offset Distance For Two Way Traffic Only

Offset Distance Table

Speed (MPH)	Offset Distance (FT.)
≤ 45	12
> 45	18

If offset distance is not attainable, then see "Barrier Placement With Attenuator" Detail shown below.

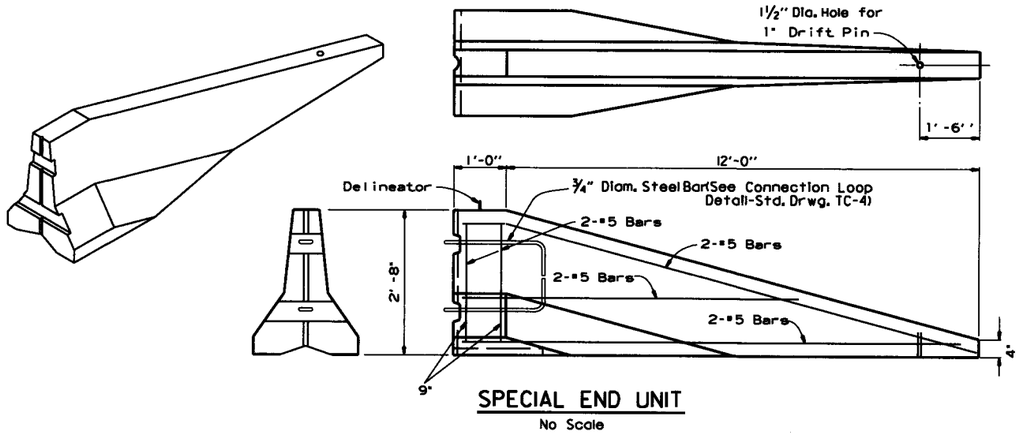


BARRIER PLACEMENT WITH ATTENUATOR

No Scale

*** Min. 3'-0" From Edge of Travel Lane to Nearest Edge of Attenuator

** Offset Distance For Two Way Traffic Only



SPECIAL END UNIT

No Scale

General Notes

When shown on the Plans, the ends of the Temporary Precast Concrete Barrier shall be protected with an NCHRP-350 or Manual For Assessing Safety Hardware (MASH) approved Crash Cushion. Payment for Crash Cushions shall be made under the item of "Temporary Impact Attenuation Barrier."

DATE	REVISION	FILMED
10-15-09	ADDED REFERENCE TO MASH	
5-25-06	REVISED BARRIER PLACEMENT	
8-22-02	ISSUED NEW DRAWING	

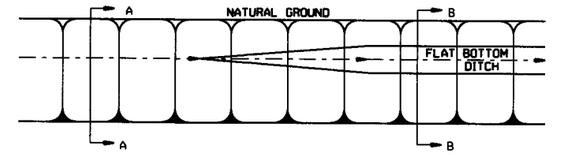
ARKANSAS STATE HIGHWAY COMMISSION

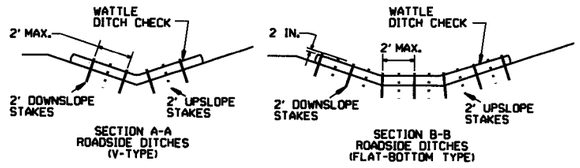
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION - TEMPORARY PRECAST BARRIER

STANDARD DRAWING TC-5

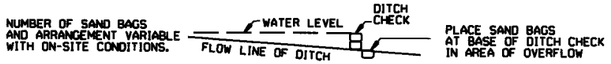
GENERAL NOTES

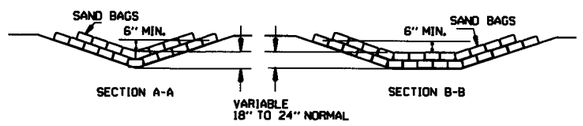
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



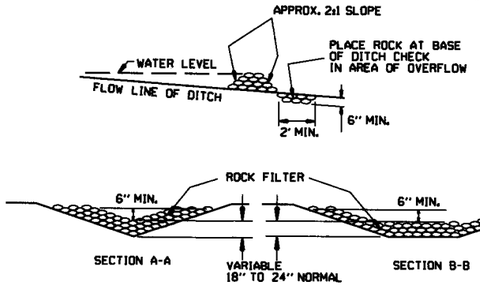


WATTLE DITCH CHECK (E-1)





SAND BAG DITCH CHECK (E-5)

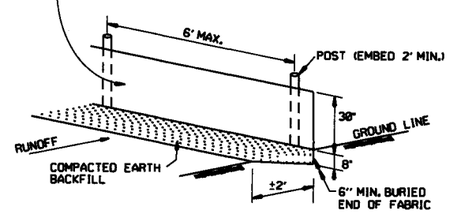


ROCK DITCH CHECK (E-6)

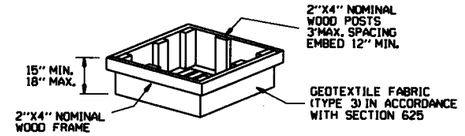
GENERAL NOTES

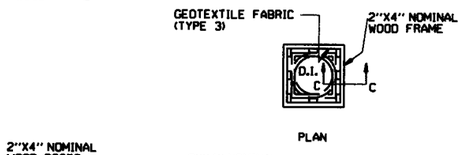
GEOTEXTILE FABRIC (TYPE 4) IN ACCORDANCE WITH SECTION 625

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.

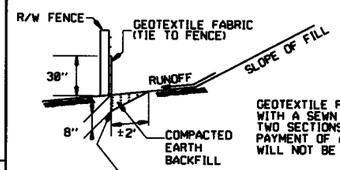


SILT FENCE (E-11)



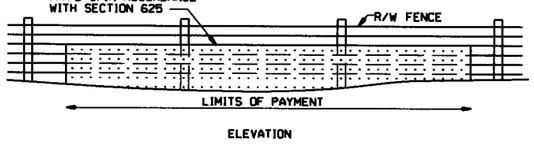


DROP INLET SILT FENCE (E-7)



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.



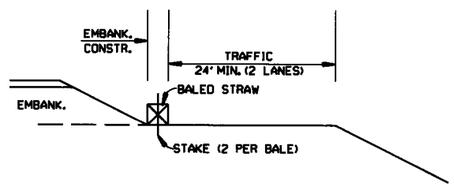
SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES

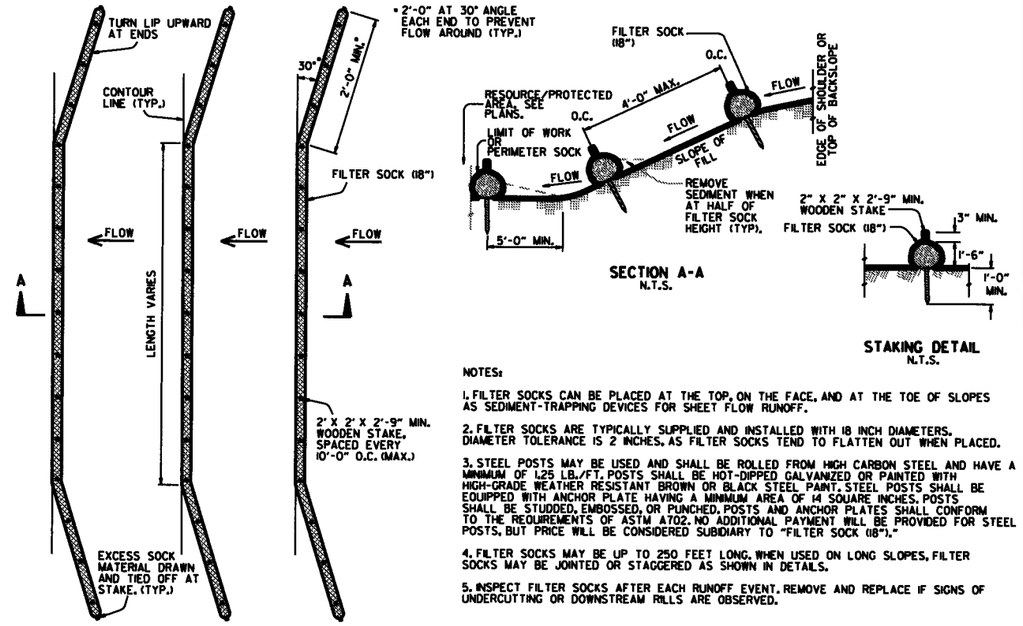
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

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.

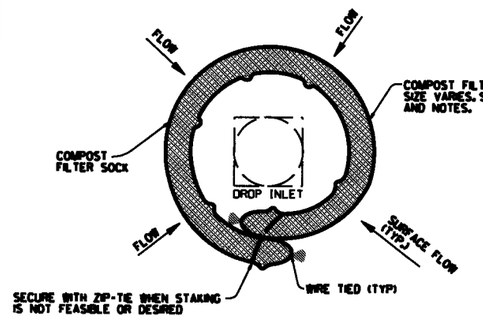
2. FILTER SOCKS ARE TYPICALLY SUPPLIED AND INSTALLED WITH 18 INCH DIAMETERS. DIAMETER TOLERANCE IS 2 INCHES, AS FILTER SOCKS TEND TO FLATTEN OUT WHEN PLACED.

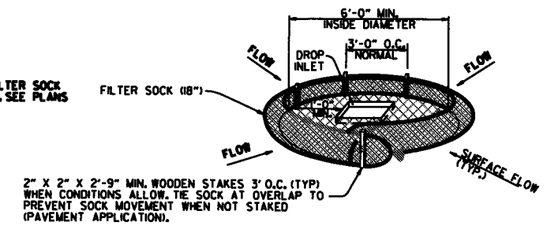
3. STEEL POSTS MAY BE USED AND SHALL BE ROLLED FROM HIGH CARBON STEEL AND HAVE A MINIMUM OF 1.25 LB./FT. POSTS SHALL BE HOT-DIPPED GALVANIZED OR PAINTED WITH HIGH-GRADE WEATHER RESISTANT BROWN OR BLACK STEEL PAINT. STEEL POSTS SHALL BE EQUIPPED WITH ANCHOR PLATE HAVING A MINIMUM AREA OF 14 SQUARE INCHES. 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 SUBSIDIARY 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 0' 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)	
01-20-95	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

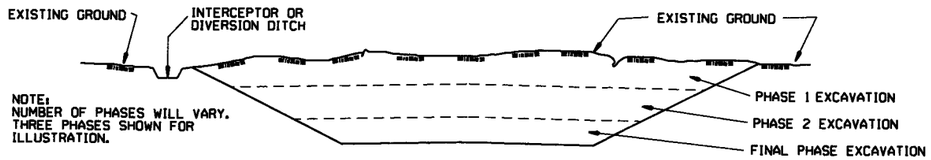
STANDARD DRAWING TEC-1

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



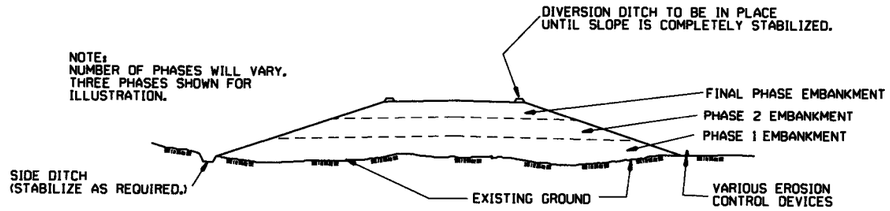
GENERAL NOTE

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.

DATE	REVISION	FILMED
11-03-94	CORRECTED SPELLING	
6-2-94	Drawn & Issued	6-2-94

ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-3