O.REV.	4 7
GENERAL INDE	X
INCLUDED THIS PROJECT	BEGIN WITH Sheet
ROADWAY PERMANENT SIGNS TRAFFIC SIGNALS ITS COMPONENTS LIGHTING	

(RESERVED)
ROADWAY STANDARD DWGS6001
BOX CULVERT STD. DRAWINGS (LRFD) 7001
BOX CULVERT STD. DRAWINGS (STD. SPEC.)7501
BRIDGE
CROSS SECTIONS9001

BRIDGE STRUCTURES REQ'D.

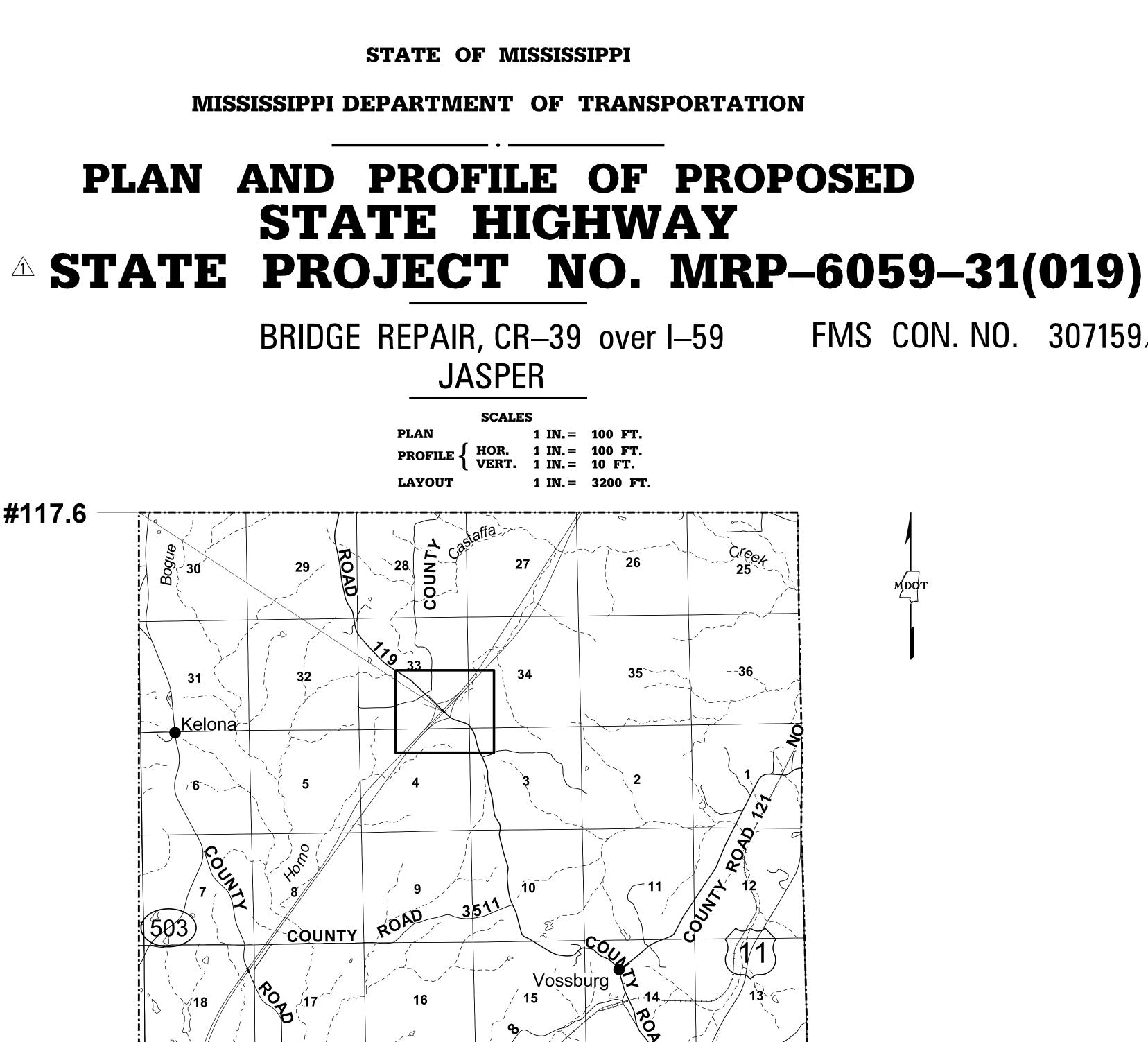
BOX BRIDGES REQ'D.

CONVENTIONAL SYMBOLS

COUNTY LINE	·····
TOWN CORPORATION	LINE
SECTION LINE	
EXISTING ROAD OR	TRAVELED WAY
PROPOSED ROAD OR	TRAVELED WAY
RAILROAD	
SURVEY LINE	
BRIDGES	······ \

LENGTH OF ROADWAY LENGTH OF BRIDGES LENGTH OF PROJECT (NET) LENGTH OF EXCEPTIONS LENGTH OF PROJECT (GROSS)

BR #117.6



EQUATIONS

EXCEPTIONS

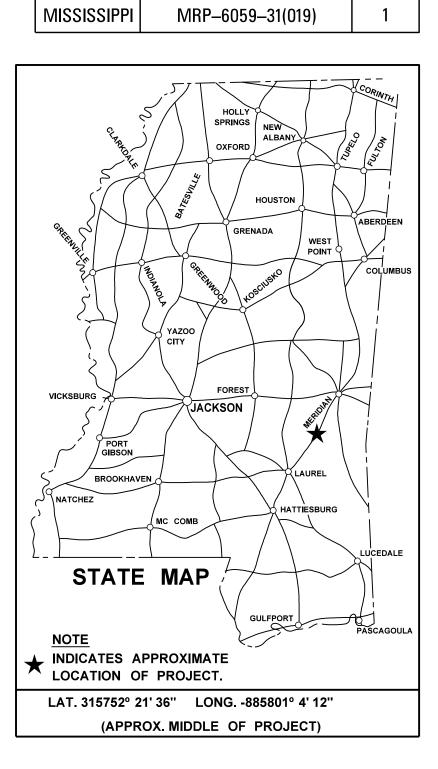
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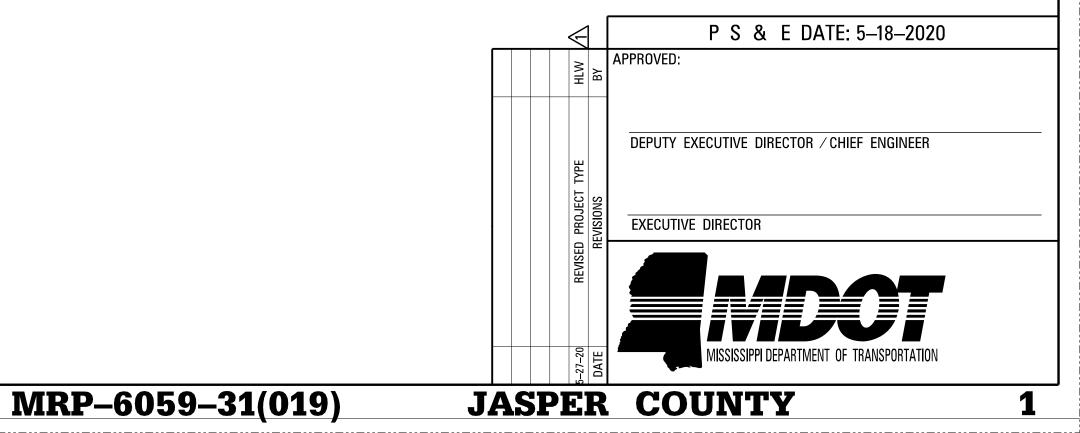
307159/101000 P.E. SP-6059-31(019)

STATE	PROJECT NUMBER	SHEET NO.

FMS CON. NO. 307159/301000



DESIGN CONTROL MPH = V (SPEED DESIGN)					
ADT () =: ADT () = DHV =: D =% T=%					
PERMITS ACQUIRED BY MDOT					
WETLANDS AND WATERS PERMITS					
WATERS WETLANDS					
NATIONWIDE #14					
NATIONWIDE (OTHER)*					
GENERAL*					
INDIVIDUAL (404)*					
STORMWATER PERMIT					
Y REQUIRED, CNOI SUBMITTED BY MDOT (DISTURBED AREA = 5 ACRES)					
S REQUIRED, SCNOI TO BE SUBMITTED BY CONTRACTOR (1 TO 4.99 ACRES)					
N NO STORMWATER PERMIT REQUIRED (<1 ACRE)					
APPROVED BY:					



1st O.REV.

DETAILED

DESCRIPTION OF SHEETS

TITLE SHEET (1)

DETAILED INDEX & GENERAL NOTES (2)

DETAILED INDEX

GENERAL NOTES

SUMMARY OF QUANTITY SHEETS (1)

SUMMARY OF QUANTITIES

ESTIMATED QUANTITY SHEETS (2)

ESTIMATED QUANTITIES - TRAFFIC CONTROL SIGNS SUMMARY OF TRAFFIC CONTROL

SPECIAL DESIGN SHEETS (5)

DETAIL OF CONSTRUCTION SIGNING DETAIL OF CONSTRUCTION SIGNING

TRAFFIC CONTROL

CR OVER I-59

LANE CLOSURE DETAILS WITH CONCRETE MEDIAN BARRI

STANDARD DRAWINGS - ROADWAY SHEETS (9)

PAVEMENT MARKING DETAILS FOR 2-LAND & 4-LANE DIV TRAFFIC CONTROL PLAN WITH FLAGGER (ONE-LANE CLOS TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT OF 65 TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT OF 65 SHORT DURATION CLOSING OF DIVIDED HIGHWAYS HIGHWAY SIGN & BARRICADE DETAILS FOR CONSTRUCTIO DETAILS OF OUTSIDE LANE CLOSURE AT EXIT & ENTRANCO TEMPORYARY STRIPING FOR TRAFFIC CONTROL 2-LANE & TRAFFIC CONTROL DETAILS DRUM PLACEMENT & SHOULD

TOTAL SHEETS (EXCLUDING BRIDGE SHEETS)

	WK. NO.	SH. NO.
		1
	DI-1	2
	GN-1	3
	SQ-1	4
	EO 1	5
	EQ-1 EQ-2	6
	LQ-Z	0
	DCS-1	7
	DCS-2	8
	TC-1	9
	AR-1	10
ER	LCD-1	11
IDED ROADWAYS	PM-1	6051
URE OF TWO-WAY TRAFFIC)	TCP-1	6351
OR 70 MPH (EXTENDED PERIOD)	TCP-4	6354
OR 70 MPH (WORK DAY ONLY)	TCP-5	6355
	TCP-7	6357
DN PROJECTS E RAMPS	TCP-8 TCP-10	6358 6360
4-LANE DIVIDED HIGHWAYS	TCP-10 TCP-13	6363
DER CLOSURE	TCP-15 TCP-16	6366
		0300
		20

PS & FMS CON. # DATE 5-27-2020

FMS CON: 307159/301000

PROJECT NO.

MRP-6059-31(019)

STATE

MISS.

DN
A LI OF
TATION

<u>1</u>	THE LOCATION AN AS NECESSARY TO
<u>2</u>	ALL TRAFFIC CONT
<u>3</u>	ALL PLASTIC DRUN
<u>4</u>	THE CONTRACTOR INLETS, APRONS, A OR REPAIR, AS DIR WILL BE MADE FO
<u>5</u>	FLUORESCENT ORA THOSE DESIGNATE
<u>6</u>	THE CONTRACTOR CONTROL PLAN AS BY THE ENGINEER.

<u>/</u>	THE CONTRACTO
	NOT APPLY TO TH

- 8
- CONTROL SHEETS.
- 10
- 11
- 12
- 13 ACCEPTED BY MDOT.
- 14 15

GENERAL NOTES

ND SPACING OF SIGNS, SHOWN ON THE TRAFFIC CONTROL PLANS, ARE APPROXIMATE AND MAY BE ADJUSTED FIT FIELD CONDITIONS.

TROL DEVICES ON THIS PROJECT SHALL COMPLY WITH PART VI OF THE MUTCD (LATEST EDITION).

MS SHALL HAVE A BALLASTING COLLAR MADE FROM RECYCLED TRUCK TIRES OR OTHER SUITABLE MATERIAL.

R SHALL BE RESPONSIBLE FOR PROTECTING EXISTING STRUCTURES SUCH AS, BUT NOT LIMITED TO, PIPES, AND BRIDGES FROM DAMAGE WHICH MIGHT OCCUR DURING CONSTRUCTION. THE CONTRACTOR SHALL REPLACE RECTED BY THE ENGINEER, ANY STRUCTURES DAMAGED DURING THE LIFE OF THE CONTRACT. NO PAYMENT DR REPLACEMENT OR REPAIR OF DAMAGED ITEMS.

ANGE SHEETING SHALL BE USED ON ALL CONSTRUCTION AND TRAFFIC CONTROL SIGNS EXCEPT FOR ED ON THE PLANS TO BE BLACK LEGEND AND BORDER ON WHITE BACKGROUND.

SHALL COORDINATE WITH THE CONTRACTOR FROM ADJACENT PROJECT(S) IN IMPLEMENTING THE TRAFFIC DIRECTED BY THE ENGINEER. ALL CONFLICTING SIGNS SHALL BE COVERED OR REMOVED AS DIRECTED

CONTRACTOR SHALL COVER ANY TEMPORARY TRAFFIC CONTROL SIGNS SHOWN IN THE TRAFFIC CONTROL PLAN THAT DO HE CURRENT PHASE.

REMOVAL OF RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH REQUIRED CONSTRUCTION IS NOT CONSIDERED A SEPARATE PAY ITEM. COST TO BE ABSORBED IN OTHER ITEMS BID.

SEE BRIDGE PLANS FOR DETAILED INDEX SHEET(S), ESTIMATED AND SUMMARY OF QUANTITY SHEETS, AND EROSION

ALL ADDENDA TO THESE PLANS WILL BE POSTED TO WWW.MDOT.MS.GOV UNDER THE PROPOSAL ADDENDA COLUMN. BIDDERS ARE ADVISED THAT HARD COPIES OF ANY ADDENDA FOR THIS PROJECT WILL NOT BE MAILED. IT IS THE BIDDER'S RESPONSIBILITY TO CHECK AND SEE IF ANY ADDENDA HAVE BEEN POSTED FOR THIS PROJECT.

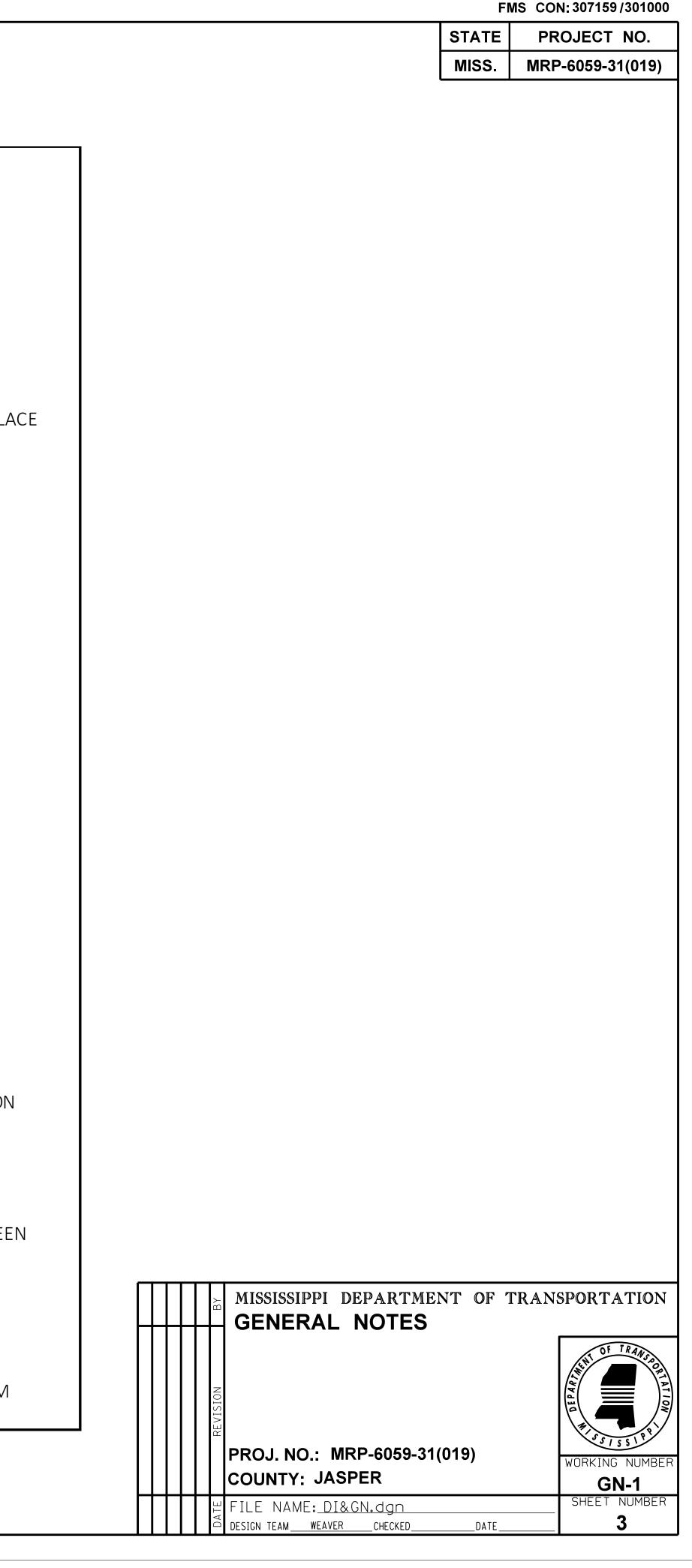
STORAGE OF FLAMMABLE MATERIALS WILL NOT BE ALLOWED UNDER ANY BRIDGE STRUCTURES.

ALL EXISTING SIGNS WHICH ARE TO BE REMOVED AS A PART OF THIS PROJECT THAT ARE NOT IN CONFLICT WITH CONSTRUCTION SHALL REMAIN IN PLACE UNTIL NEW SIGNS ARE INSTALLED UNLESS NOTED OR DIRECTED OTHERWISE BY THE PROJECT ENGINEER. ROADWAY SIGNS THAT ARE IN CONFLICT WITH CONSTRUCTION SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER, THE COST OF WHICH SHALL BE ABSORBED IN OTHER ITEMS BID.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN THE LONG-TERM CLOSURE UNTIL THE REPAIRS ARE COMPLETE AND HAVE BEEN

THE CONTRACTOR IS ADVISED THAT THE EXISTING MDOT CLOSURE IS TO BE REMOVED WHEN THE CONTRACTOR'S CLOSURE IS INSTALLED. THE CONTRACTOR SHALL COORDINATE WITH MDOT PROJECT ENGINEER.

THE CONTRACTOR SHALL MAINTAIN TWO NORTHBOUND LANES AT ALL TIMES DURING HURRICANE EVACUATION ORDERS FROM JUNE 1 THROUGH NOVEMBER 1



	SUMMARY OF QUANTITIES (SHEET 1)			
PAY ITEM NO.		UNIT -	JASPER : 307159-301000	
PAT ITEM NO.	PAY ITEM		Prelim	Final
403-D007	9.5-mm, HT, Asphalt Pavement, Polymer Modified	TON	9	
406-A002	Cold Milling of Bituminous Pavement, All Depths	SY	156	
618-A001	Maintenance of Traffic	LS	1	
619-D1001	Standard Roadside Construction Signs, Less than 10 Square Feet	SF	32	
619-D2001	Standard Roadside Construction Signs, 10 Square Feet or More	SF	623	
619-F1001	Concrete Median Barrier, Precast	LF	442	
619-F2001	Remove and Reset Concrete Median Barrier, Precast	LF	442	
619-G4005	Barricades, Type III, Single Faced	LF	96	
619-G7001	Warning Lights, Type "B"	EA	12	
620-A001	Mobilization	LS	1	
907-624-A002	6" Inverted Profile Thermoplastic Traffic Stripe, Skip White	LF	100	
907-624-B002	6" Inverted Profile Thermoplastic Traffic Stripe, Continuous White		240	
907-624-D002	6" Inverted Profile Thermoplastic Traffic Stripe, Continuous Yellow	LF	240	
	OR			
628-G001	6" High Performance Cold Plastic Traffic Stripe, Skip White	LF	100	
628-H001	6" High Performance Cold Plastic Traffic Stripe, Continuous White	LF	240	
628-J001	6" High Performance Cold Plastic Traffic Stripe, Continuous Yellow	LF	240	

FMS: 307159-301000

PROJECT NO.

MRP-6059-31(019)

STATE

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By	MISSISSIPPI DI SUMMARY OF Q		OF TRANSP	ORTATION
Revision				AT IS ST ST ST ST
	PROJ NO: MRP-6	• •		Working Number
	COUNTY: JASPE	R		SQ-1
ate	FILENAME: SUM	MARY OF QU	ANTITIES	Sheet Number
Õ	Design Team WEAVER	Checked	Date <u>5-18-2020</u>	4

		S	SIGNS	REQU	IRED			SIGNS REQUIRED (CONT'D)						SIGNS REQUIRED					
SIGN	NO.	SIZE	UNIT AREA SQ.FT.	QUAN. REQ'D.	TOTAL SIGN AREA SQ.FT.	REMARKS	-	SIGN NO	. SIZE	UNIT AREA SQ.FT.	QUAN. REQ'D.	TOTAL SIGN AREA SQ.FT.	REMARKS	SIGN NO.	SIZE	UNIT AREA SQ.FT.	(CONT'D) QUAN. REQ'D.	TOTAL SIGN AREA SQ.FT.	REMARKS
G2Ø -		50″ X 24″	SQ.FT. 10.00 ♦		SQ.F1.	ROAD WORK NEXT X X MILES	1	R1 - 3	18″ X S	Î	NEQ D.	SQ.FI.	3-WAY, (1)	W1 - 7	60" X 30"	12.50		SQ.FT.	↔ (2
G2Ø -		48″ X 24″	8.00	4	32	END ROAD WORK		R1 - 3	24" X 1				3-WAY, (1) 4 WAY ETC. (2)	W1 - 8L	18" X 24"	3.00	/ 		
G2Ø -		36″ X 18″	4.50			PILOT CAR FOLLOW ME		R2 - 1	24″ X 3				$\overbrace{1}$	W1 - 8L	36" X 48"	12.00	•		
							1 _	R2 - 1	36″X4	8″ 12.00	•		SPEED LIMIT 2	W1 - 8R	18" X 24"	3.00			
							6	R2 - 1	48″X6	Ø″ 20.00 ·	•			W1 - 8R	36" X 48"	12.00			
1 M1 -	1 2	24" X 24"	4.00			1 OR 2 DIGIT		R3 - 1	36″ X 3	36″ 9.00				W1 - 9L	48" X 48"	16.00			\$
1 M1 -		30" X 24"	5.00			3 DIGIT	-	R3 - 1	48″ X 4		•			W1 - 9R	48" X 48"	16.00			\$
2 M1 -		24" X 24"	4.00			1 OR 2 DIGIT	-	R3 - 2			•			W3 - 1a	48" X 48"	16.00			
<u>2 M1 -</u>	4 5	30" X 24"	5.00			3 DIGIT	-	R3 - 2 R3 - 4			•								
3 M1 -	5 2	24" X 24"	4.00			1 OR 2 DIGIT		R3 - 4			•								▲
3 M1 -		30″ X 24″	5.00			3 DIGIT	-	R3 - 5						W3 - 2a	48" X 48"	16.00			
							-	R3 - 5											
4 M3 -	- 1 2	24" X 12"	2.00			NORTH- 1 OR 2 DIGIT RTE. MARKER	-	R3 - 6	L 30″ X 3				N ∎ I	W3 - 3	48" X 48"	16.00			
4 M3 -	- 1 3	30″X 15″	3.13			NORTH- 3 DIGIT RTE. MARKER EAST- 1 OR 2 DIGIT RTE. MARKER		R3 - 6	R 30″X 3	6″ 7.5Ø			*	W3 - 5	48" X 48"	16.00			SPEED REDUCTION
4 M3 -		24" X 12"	2.00			EAST- 1 OR 2 DIGIT_RTE. MARKER		R3 - 7	L 30″ X 3	a″ 6.25			LEFT LANE	W4 - 1L	48″ X 48″	16.00			†
4 M3 -		30" X 15"	3.13			EAST- 3 DIGIT RTE. MARKER					_		MUST TURN LEFT			10.00			1
4 M3 -		24" X 12"	2.00			SOUTH- 1 OR 2 DIGIT RTE. MARKER	-	R3 - 7	R 30″ X 3	6.25			RIGHT LANE MUST	W4 - 1R	48" X 48"	16.00			1
4 M3 -		30" X 15"	3.13			SOUTH- 3 DIGIT RTE.MARKER WEST- 1 OR 2 DIGIT RTE.MARKER							TURN RIGHT						
4 M3 - 4 M3 -		24″ X 12″ 30″ X 15″	2.00 3.13			WEST- 3	-	R4 - 1	24" X 3 48" X 6	a			DO NOT PASS	W4 - 2L	48" X 48"	16.00			/
			5.15			DIGIT RTE. MARKER	-		24" X 3				(\underline{z})						
							-	R4 - 2	48″ X 6		•		PASS WITH CARE	W4 - 2R	48" X 48"	16.00			
M4 -	8 2	24″ X 12″	2.00			DETOUR- 1 OR 2 DIGIT RTE. MARKER		R4 - 7					' †			16 00			PAVEMENT
M4 -	8 3	30″X 15″	3.13			DETOUR- 3 DIGIT RTE. MARKER		R4 - 8	48″X6	Ø″ 20.00	•		\ "	W5 - 1a	48" X 48"	16.00			NARROWS
M4 -	9 4	18" X 36"	12.00 ♦			DETOUR		R5 - 1	48″ X 4	8″ 16.00	•		DO NOT ENTER	W6 - 1	48" X 48"	16.00			\$7
	5 1		12.00 •			Î		R5 - 1					WRONG WAY						• 1
M4 -	9L 4	18" X 36"	12.00 ♦			DETOUR		R6 - 1						W6 - 2	48" X 48"	16.00			4,5
						DETOUR		R6 - 1	א 36″X 1	2″ 3.00									
M4 -	9BL 48	8″ X 36″	12.00 🔶					R6 - 21	_ 24″ X 3	0″ 5.00			WAY	W6 - 3	48" X 48"	16.00			↓ ↓↑
			10.00.1			DETOUR							ONE WAY	W8 - 1	48" X 48"	16.00			BUMP
M4 - 9	9SL 4	8″ X 36″	12.00 ♦			N		R6 - 21	R 24″ X 3	0″ 5.00									SOFT
		0" V 36"	12 00			DE <u>T</u> OUR	-							W8 - 4	48" X 48"	16.00			SHOULDER
M4 - S	9B2L 40	8″X 36″	12.00 ♦					R11 - 2	<u>2</u> 48″ X 3	30″ 10.00	• 2	20	ROAD CLOSED	W8 - 6	48" X 48"	16.00			TRUCK CROSSING
M4 - 9	9R 48	8″ X 36″	12.00 ♦			DETOUR			60" X 3				ROAD CLOSED XX MILES AHEAD	W8 - 7			▶		LOOSE GRAVEL
						\rightarrow	-	R11 - 3					BRIDGE OUT XX MILES AHEAD ROAD CLOSED	W8 - 9	48" X 48"	16.00			LOW SHOULDER
M4 - 9	9BR 4	8″ X 36″	12.00 ♦					R11 - 4	60″ X .	30″ 12.50	•		ROAD CLOSED TO THRU TRAFFIC	W8 - 11 W8 - 12	36" X 36"	9.00			UNEVEN LANES
						DETOUR	-						WEIGHT	W10 - 1	48" X 48" 36" DIA.	16.00 (7.07			NO CENTER STRIPE
M4 - S	9SR 48	8″ X 36″	12.00 ♦					R12 -	1 36″ X 4	12.00	•		LIMIT	W10 - 1 W10 - 1	48" DIA.	12.56			$ (R \times R)$ (1) (2)
						DETOUR	-						XX TONS	W13 - 1	24" X 24"	4.00	/ 		XX MPH
M4 - S	9BSR 4	18" X 36"	12.00 ♦			7	7		36″ X 4	8″ 12.00	•		WHEN WORKERS ARE PRESENT	W14 - 3		5.56			NO (1
M4 - 1	1ØL 4	48″X 18″	6.00				67	R16- 3	48″ X 6	60″ 20.00	•		SPEEDING FINES DOUBLED	W14 - J	48″X64″X64″	9.89			PASSING ZONE (2
M4 - 1	1ØR 4	18" X 18"	6.00											W16-2	24" X 18"	3.00			XXX FEET
								W1 - 1L					Ţ	W19 - 2	48" X 48"	16.00			BRIDGE MAY ICE IN COLD WEATHER
			0.99				-	W1 - 1F						W2Ø - 1	48" X 48"	16.00	24	384	ADVANCE ROAD WORK (1)
4 M4 -		24" X 12"	2.00			TO	-	W1 - 21						W2Ø - 1	36" X 36"	9.00			
4 M5 - 4 M5 -		21″ X 15″ 21″ X 15″	2.19 2.19			−	-	W1 - 2F W1 - 3I						W2Ø - 2 W2Ø - 3	48" X 48" 48" X 48"	16.00 16.00		192	ADVANCE DETOUR ADVANCE ROAD CLOSED
4 M5 -		21 × 15 21″ X 15″	2.19				1	W1 - 3								10.00			
4 M5 -	-	21″ X 15″ 21″ X 15″	2.19			~	1	W1 - 40					\	W2Ø - 4	48" X 48"	16.00			ADVANCE ONE-LN. RD.
4 M6 -		21″ X 15″	2.19			+	1	W1 - 40					/		48" X 48"	16.00	1		ADVANCE ONE-LN. BR.
4 M6 -		21″ X 15″	2.19					۱۸/1 F		8″ 16.00			\$	W2Ø - 5L	48" X 48"	16.00			ADVANCE LT. LN. CLOSED
4 M6 -		21" X 15"	2.19					W1 - 5	L 48″ X 4	0 10.00	•		~	W2Ø - 5R	48" X 48"	16.00			ADVANCE RT. LN. CLOSED
4 M6 -		21" X 15"	2.19					W1 - 56	R 48″ X 4	8″ 16.00	•		2						
4 M6 -	3 2	21″ X 15″	2.19			↑	-				-								
							-	W1 - 6L											•
R1 -	1 76	5″ OCTAGON	7.46			(1)			- 60″ X 3 R 48″ X 2		•			W2Ø - 7a	48" X 48"	16.00			
		3″ OCTAGON		2	26.5	STOP (2)		W1 - 6F			•								
R1 -		" X 48" X 48"	6.93				Ď	W1 - 7	48″ X 2					W21 - 1	36" X 36"	9.00			WORKERS
		" X 60" X 60"				YIELD	1	 			1	1	-		1	l	1	1	1

PLAN ROADWAY DESIGN DIVISION ;IPPI DEPARTMENT OF TRANSPORT

320 9:28 AM EQ.DG

					F	MS CON: 307159/3010
					<u>STA</u> TE	PROJECT NO.
		SIGN		UIRED	MISS.	MRP-6059-31(019
			(CONT'D)	QUAN.	TOTAL	
	SIGN NO.	SIZE	AREA SQ.FT.	REQ'D.	SIGN AREA SQ.FT.	REMARKS
(2)	W21 - 2	36″ X 36″	9.00			FRESH OIL (TAR)
2	W21 - 3	48″ X 48″	16.00 ♦			ADVANCE ROAD MACHINERY
2	W21 - 5	48″ X 48″	16.00 ♦			SHOULDER WORK
	W21 - 6	36" X 36"	9.00			SURVEY CREW
	W24 - 1L W24 - 1R	48" X 48"	16.00 ♦ 16.00 ♦			$\langle \rangle \langle \rangle$
	W24 - IK W24 - 1AL	48″ X 48″ 48″ X 48″	16.00			
	W24 - 1AR	48″ X 48″	16.00			$\langle \langle \rangle \langle \rangle \rangle$
	W24 - 1BL	48" X 48"	16.00 ♦			in tech
	W24 - 1BR	48″ X 48″	16.00 ♦			
N	VP - IL	12″ X 36″	3.00			
_	VP - IR	12″ X 36″	3.00			
_						
- 5	OM - 3L	12″X 36″	3.00			
- 5	OM - 3R	12″X 36″	3.00			
_	TOTAL	SIGN /	AREA		THAN Q.FT.	32 SQ.FT.
	TOTAL	SIGN /	AREA		SQ. FT. MORE	622.5 SQ.FT.
	(1) STANDA	RD				
	\vdash	USE WHER	E WARRAN	NTED)		
	-					
<u>}</u>			NO	TES		
	1 INTERS	TATE ROUTE	MARKER			
		STATES RO		(FR		
PE		ROUTE MARK		N L I N		
$\frac{1}{2}$				TION MAR	KERS AND	DIRECTIONAL
<u> </u>		5 SHALL BE				

ROUTE MARKERS. 5 BLACK STRIPES ON YELLOW BACKGROUND

- 6 INTERSTATE USE ONLY
- 7 TOP OF SIGN BLACK LETTERING ON ORANGE BACKGROUND, BOTTOM OF SIGN - BLACK LETTERING ON WHITE BACKGROUND

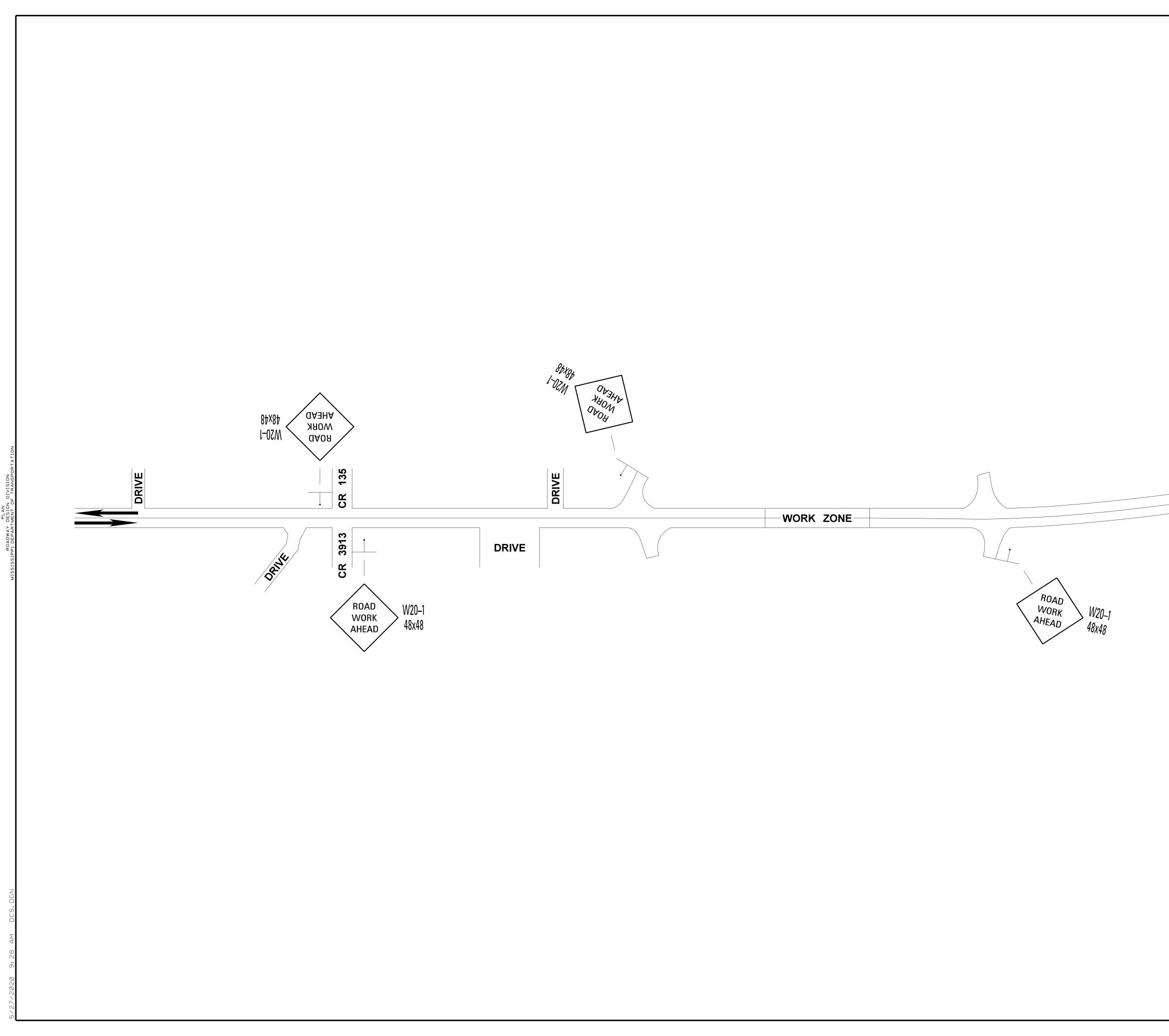
THE BACKGROUND OF ALL WARNING SIGNS ("W" SERIES)EXCEPT W10-1 SHALL BE ORANGE. THE W10-1 BACKGROUND SHALL BE YELLOW IN ALL CASES.

ВΥ	MISSISSIPPI DEPARTMENT OF TRAN	SPORTATION
REVISION	ESTIMATED QUANTITIES FOR TRAFFIC CONTROL SIGNS	OF TRANSPORTATION
	PROJ.NO.: MRP-6059-31(019) COUNTY: JASPER	WORKING NUMBER
DATE	FILE NAME: <u>EQ.dgn</u> Design team weaver checked date 08-26-13	SHEET NUMBER 5

							SUN	ЛМА	RY		0	F		RAF	FIC		С	ONT	ROL		ITEM	S	RE
WK.	PHASE OF				PAINT C	R TAPE		TEN	1PORARY 1	TRAFFIC STR	RIPE		TA	PE				CMS	ARROW PANEL	CONCRETE		ICADES PE III	REFLECTIVE
NO.	CONST.	CONTI WHITE	NUOUS YELLOW	SI WHITE	KIP YELLOW	DE WHITE	TAIL YELLOW	LEGE	ND	CONTI WHITE	NUOUS YELLOW	S WHITE	KIP YELLOW	DE WHITE	TAIL YELLOW	- LEC	GEND	CIVIS	TYPE "A"	BARRIER	SINGLE FACED	DOUBLE FAG	CED 2-WAY YELLO
DCS-1																							
DCS-2																					48		
TC-1																					48		
	NITS	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EACH
T	DTAL																				96	0	0

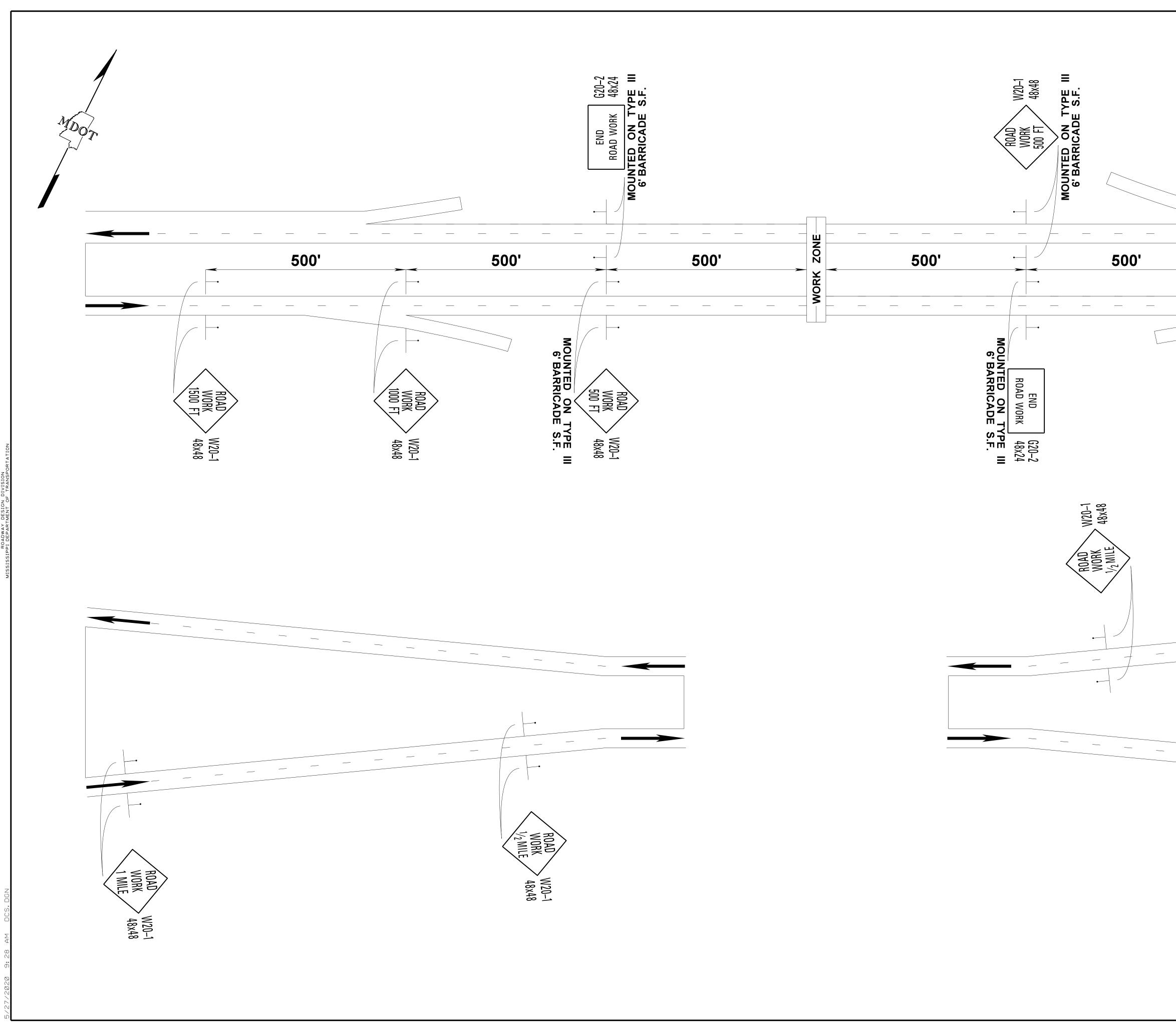
FMS CON: 307159/301000

								NS CON: 30718	
						ST	ATE	PROJEC	T NO.
						MI	SS.	MRP-6059-	31(019)
	_								
EQUIRE	$\mathbf{)}$								
IVE RAISED MARKERS	WARNING	FREE STANDING					~		
	LIGHTS	PLASTIC	G20-2	R1-1	R11-2	W20-1	W20-3	REMARKS	
LLOW RED-CLEAR	TYPE B	DRUMS	U	Ľ	ĸ	\$	\$		
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	12			2	2		12		
H EACH	EACH	EACH	EA	ΕA	EA	EA	EA		
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			ROL						FTRANS
								DEPARIM	TRANS TORT
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		REVIS							
).: M	RP-60)59-31	(019))		
		COUNTY:					•		NG NUMBER
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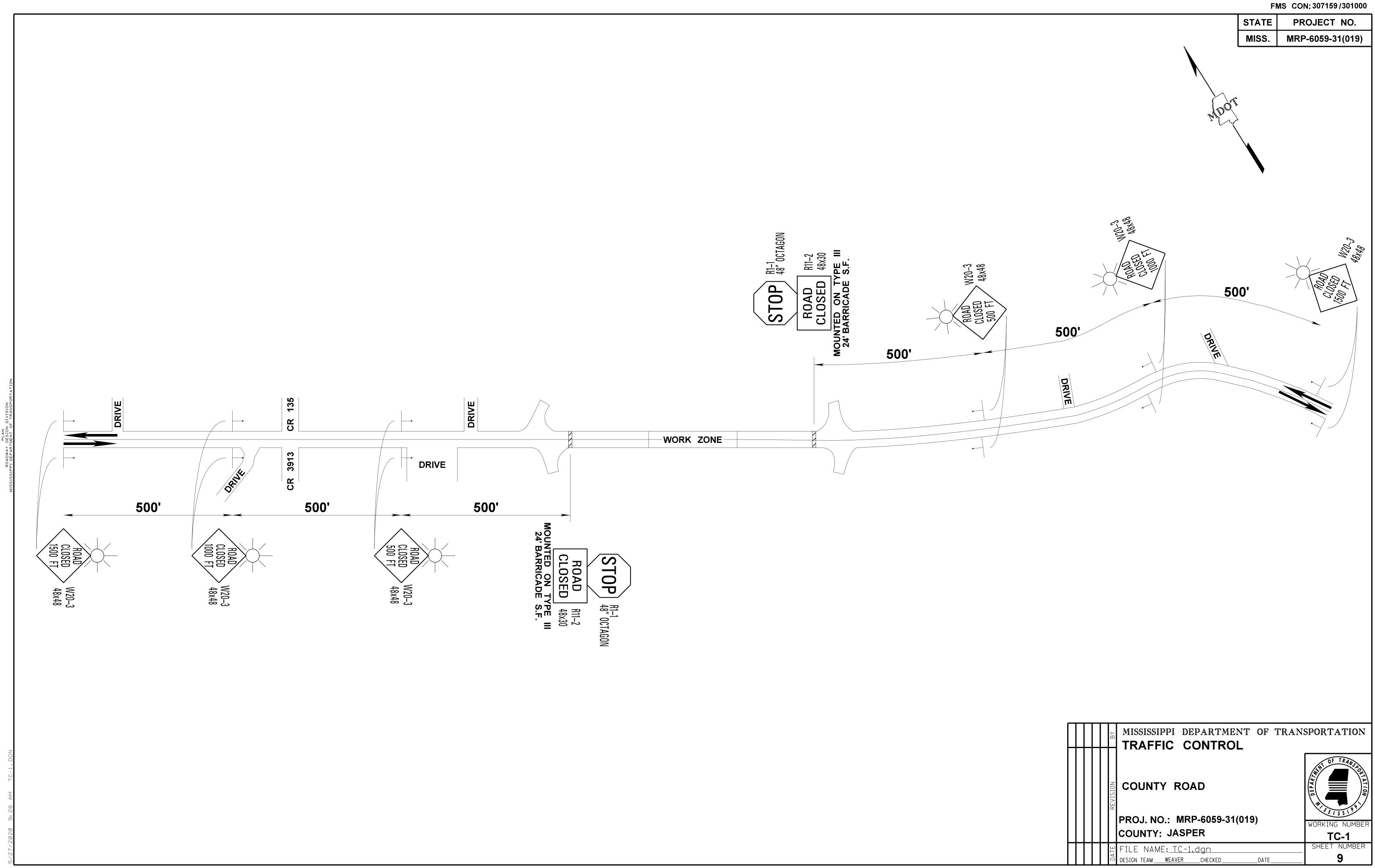


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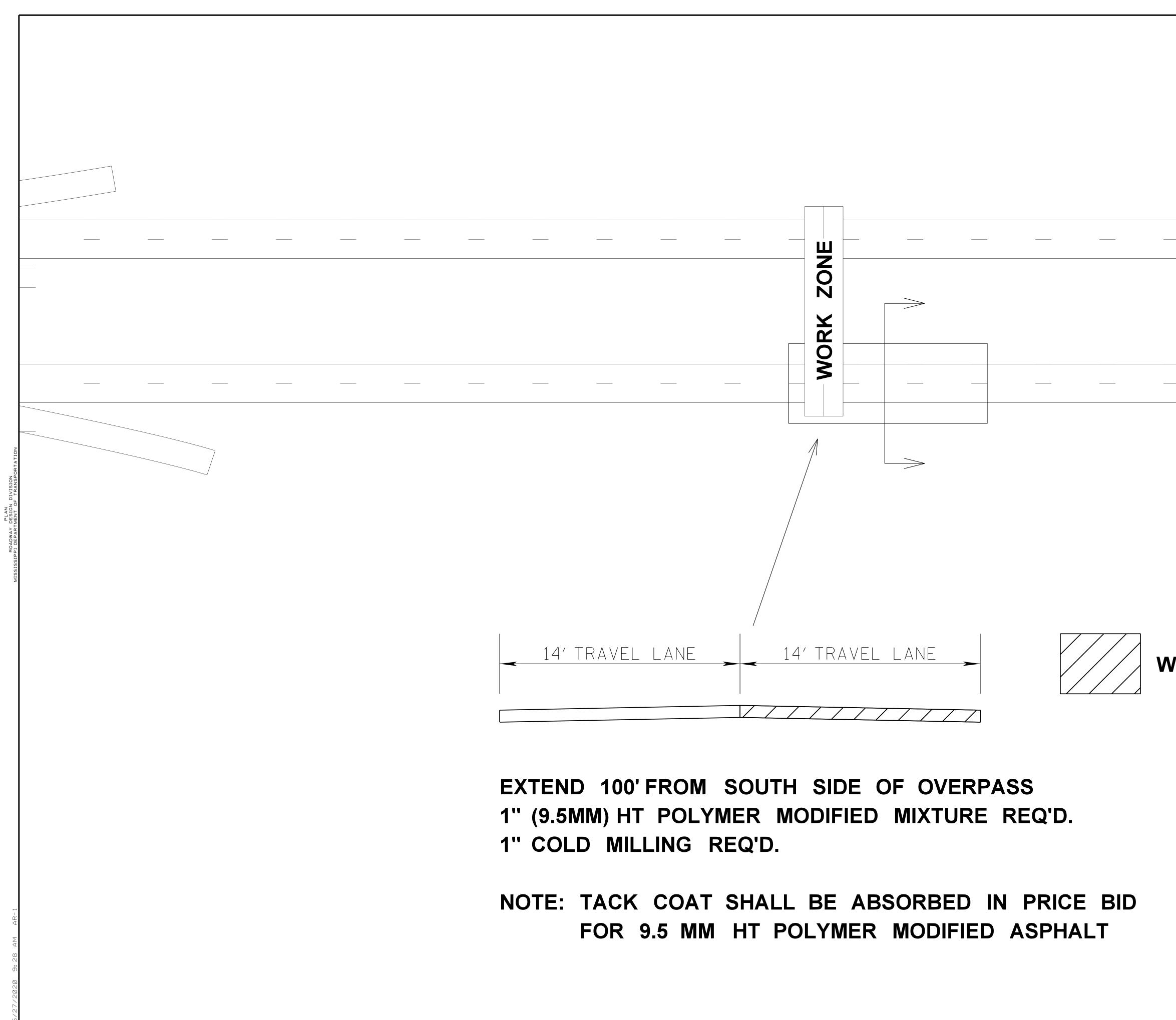
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	REVISION		OF TRANSPORTATION
		PROJ. NO.: MRP-6059-31(019)	WORKING NUMBER
		COUNTY: JASPER	DCS-1
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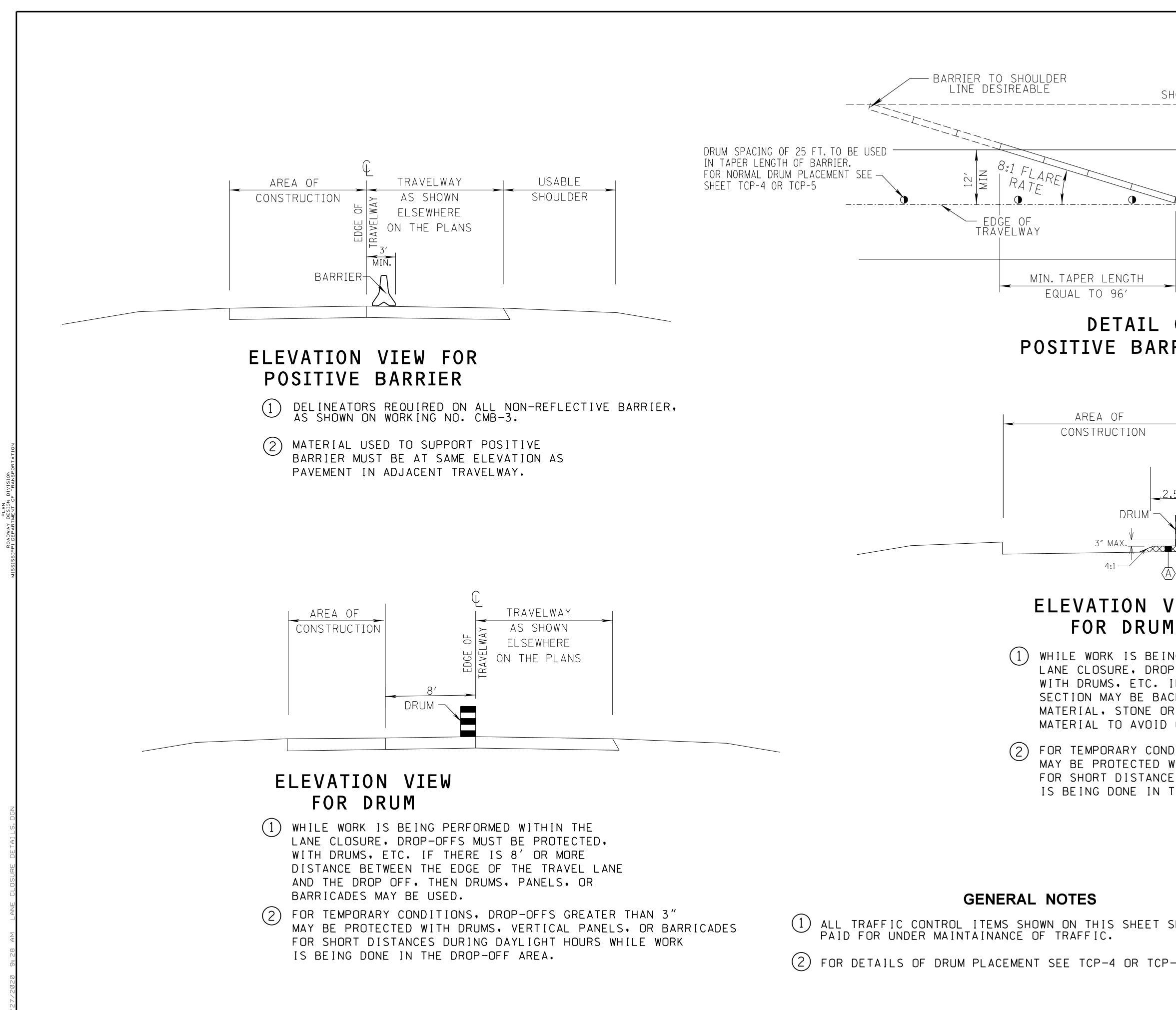
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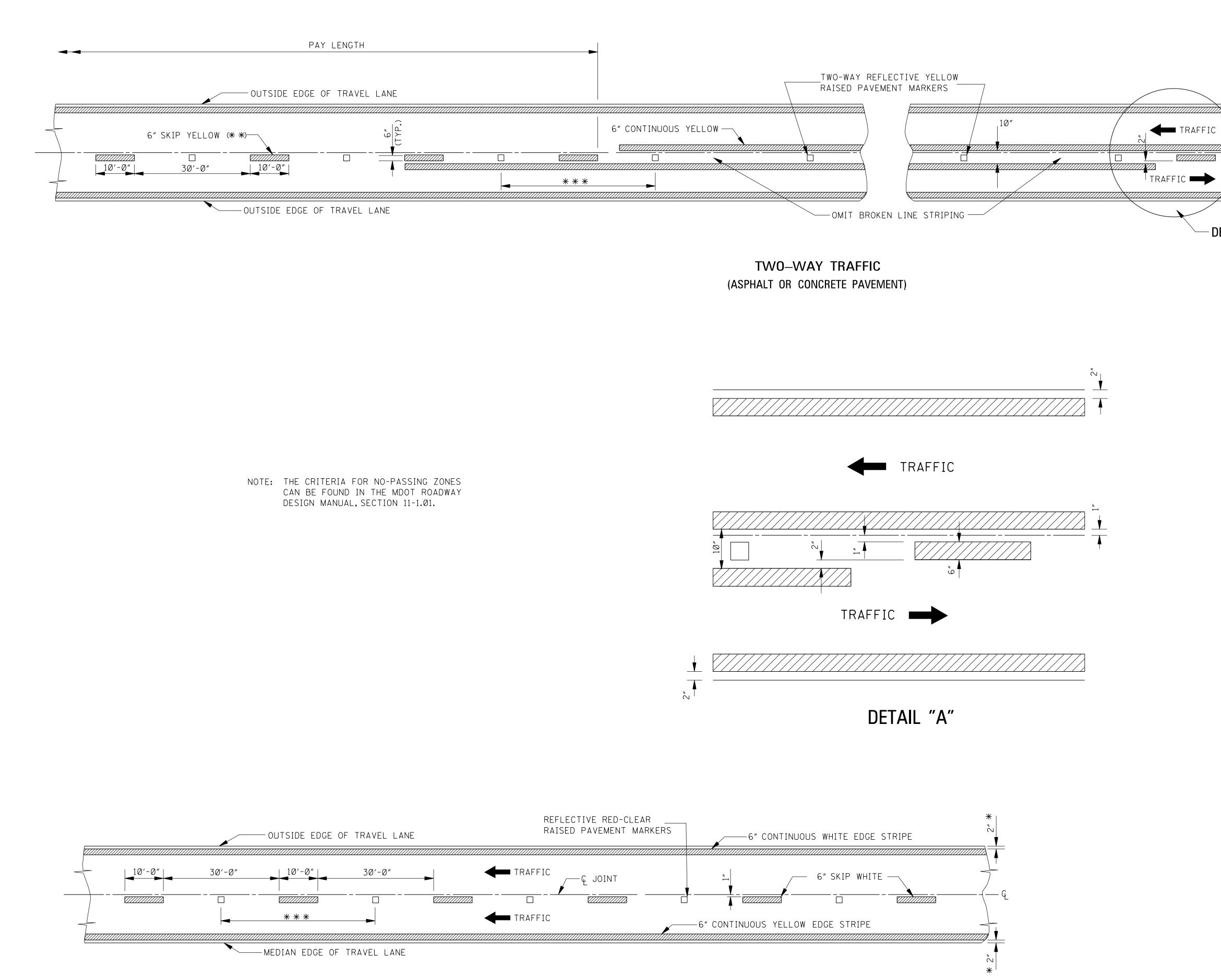
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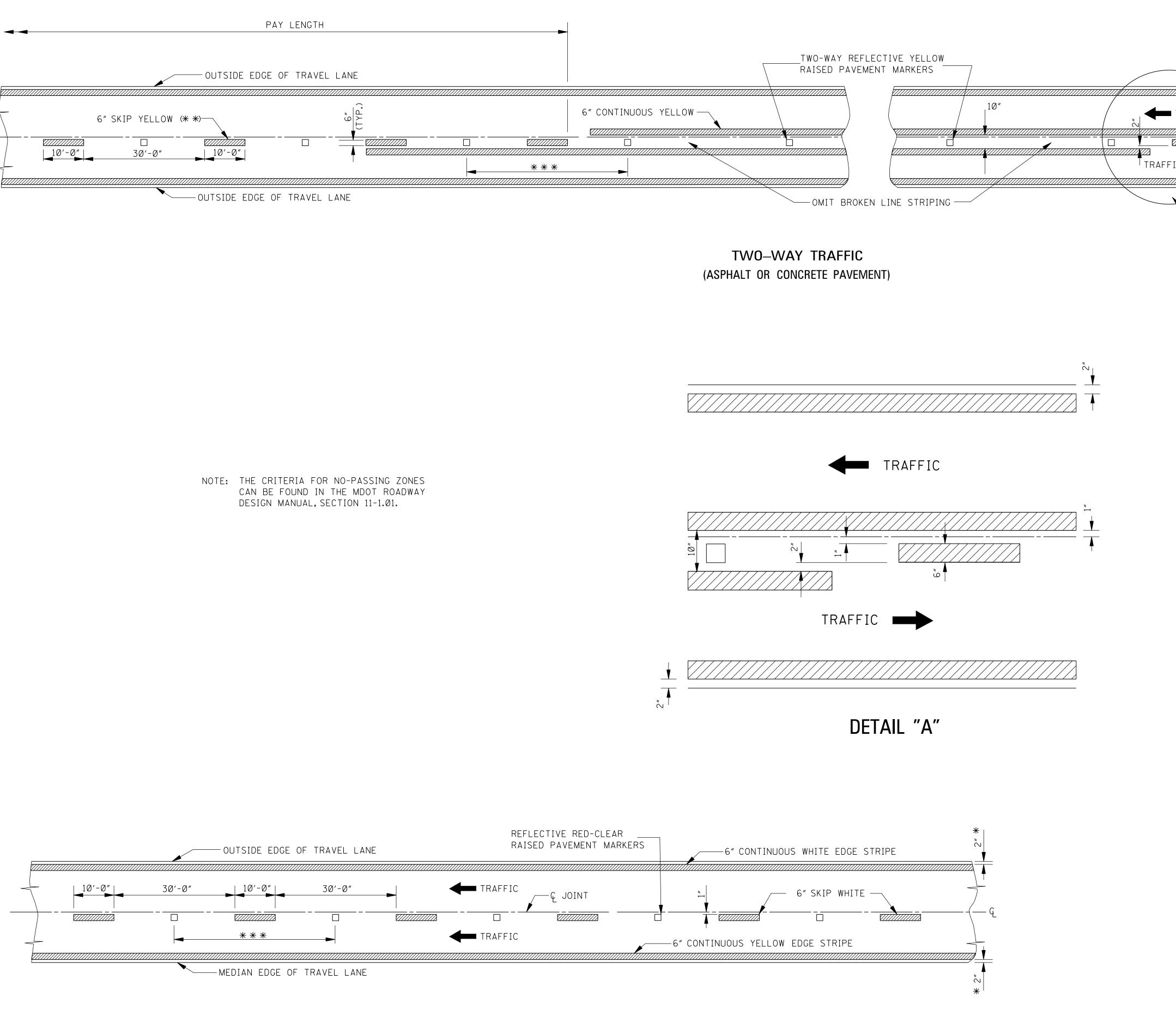
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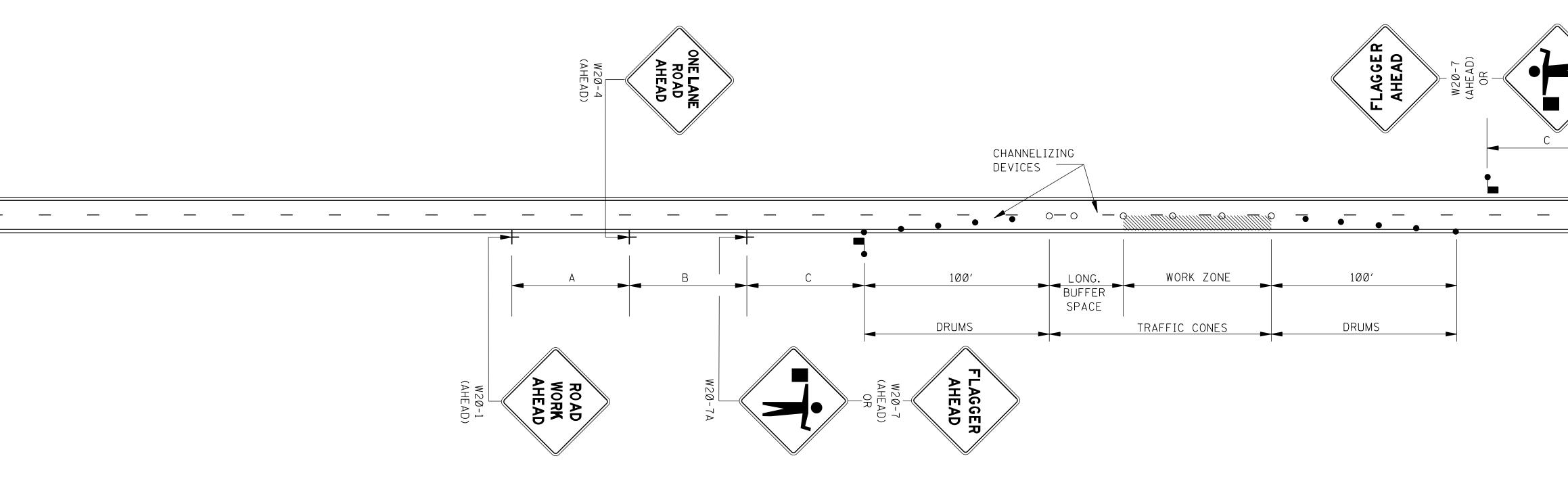
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A SUITABLE MATERIAL (TO BE		
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NG PERFORMED WITHIN THE		
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CKFILLED WITH GRANULAR R OTHER APPROVED		
OVERNIGHT DROP-OFFS. DITIONS, DROP-OFFS GREATER THAN 3"		
WITH DRUMS, VERTICAL PANELS, OR BARRICAE ES DURING DAYLIGHT HOURS WHILE WORK)ES	
THE DROP-OFF AREA.		
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SHALL BE		LO ILATION
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4-LANE WITH ONE-WAY TRAFFIC

PROJECT NO. STATE MISS. 6" CONTINUOUS YELLOW (**) —ę joint 6" CONTINUOUS WHITE EDGE STRIPE (**) - DETAIL "A" DIRECTION OF TRAFFIC GENERAL NOTES: * 1. 2" UNLESS SHOWN ELSEWHERE ON THE PLANS. FOR STRIPING ON RUMBLE STRIP SECTIONS REFER TO WK. SHEETS RS-1, RS-2, AND RS-3. * * 2. EDGE STRIPE SHALL BE SAME MATERIAL AS LANE-LINE STRIPE (PAINT OR PLASTIC AS INDICATED IN PAY ITEMS). * * * 3. SPACING OF REFLECTIVE RAISED PAVEMENT MARKERS IS AS FOLLOWS: URBAN AREA RURAL AREA (ft-in) (ft-in) TANGENT SECTIONS 40'-0" 80'-0" HORIZONTAL CURVES 40'-0" 40'-0" INTERCHANGE LIMITS 40'-0" + 40'-0" + NOTE: ON THE MAIN FACILITY, REFLECTIVE RED-CLEAR RAISED PAVEMENT MARKERS ON A 40'-0" SPACING WILL BE REQUIRED ON LANE-LINE(S) THROUGH ALL INTERCHANGE AREAS BEGINNING 1000' IN ADVANCE (IN DIRECTION OF TRAFFIC) OF THE EXIT RAMP TAPER AND CONTINUING THROUGH THE INTERCHANGE TO THE END OF THE ENTRANCE RAMP TAPER. 4. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE REFLECTIVE RAISED PAVEMENT MARKERS AS LISTED IN THE MDOT "APPROVED SOURCES OF MATERIALS." MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN PAVEMENT MARKING **DETAILS FOR** REVISION 2-LANE AND 4-LANE DIVIDED ROADWAYS working number PM-1 SHEET NUMBER AUGUST Ø1,2Ø17 SUE DATE:__ 6Ø51



GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE. FLAGGER STATIONS SHALL BE LOCATED SUCH THAT APPROACHING VEHICLES WILL HAVE SUFFICIENT DISTANCE TO STOP. VALUES IN STOPPING SIGHT DISTANCE COLUMN MAY BE USED AS A MINIMUM FOR THIS DISTANCE.

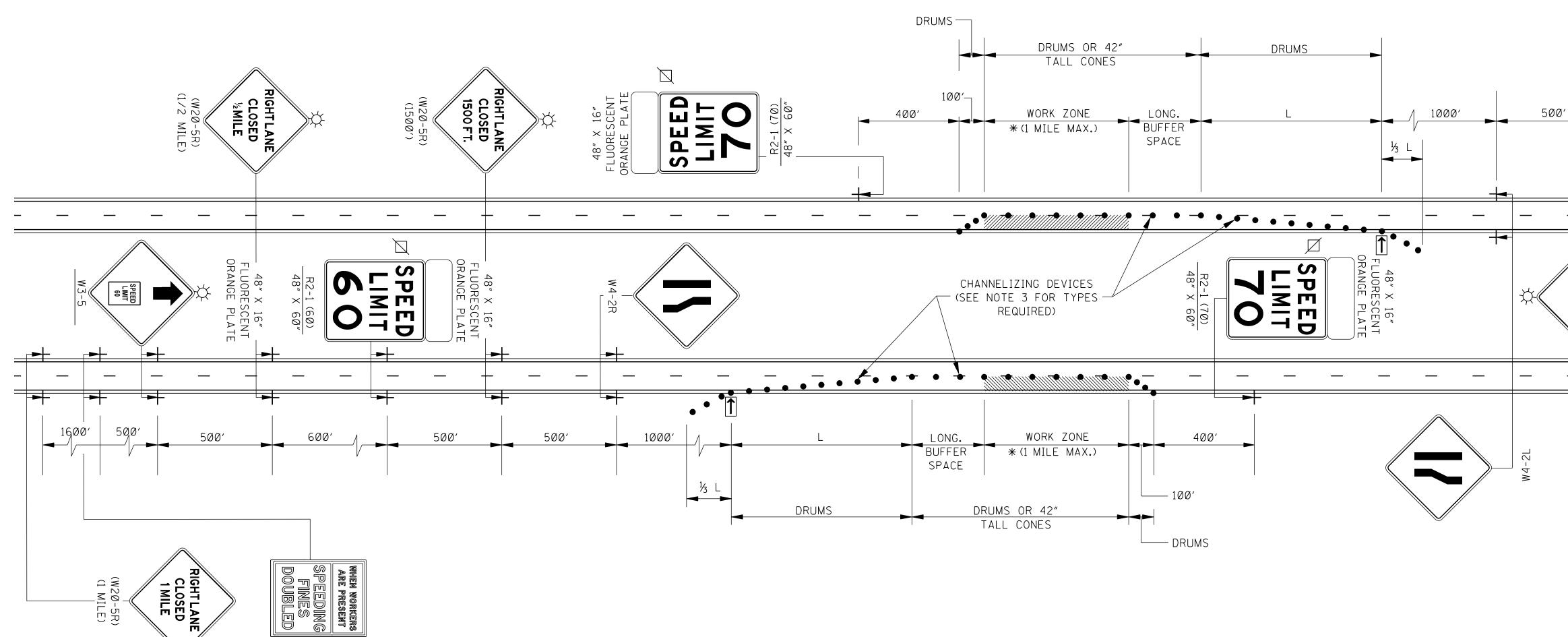
POSTED SPEED AND/OR	СНА	AXIMUM NNELIZING CE SPACING (ft)	t LONGITUDINAL BUFFER SPACE	STOPPING SIGHT	
DESIGN SPEED	TAPER	ALONG LANE LINE & WORK ZONE	(f+)	DISTANCE	
25	20	5Ø	55	155	
30	20	6Ø	85	200	
35	2Ø	7Ø	12Ø	25Ø	
40	2Ø	8Ø	17Ø	305	
45	2Ø	90	22Ø	36Ø	
50	2Ø	100	28Ø	425	
55	2Ø	11Ø	335	495	
60	2Ø	12Ø	415	57Ø	
65	2Ø	130	485	645	

+ NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

- 2. ALL CHANNELIZING DEVICES SHALL BE A MINIMUM OF 28" IN HEIGHT.
- 3. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHALL BE A MINIMUM OF 36" × 36" AND BLACK COPY ON FLUORESCENT ORANGE SHEETING.
- 4. WHEN WORK ZONE IS NO LONGER NEEDED, ALL SIGNS SHALL BE COVERED OR REMOVED AND ALL CHANNELIZING DEVICES SHALL BE MOVED TO THE SHOULDER EDGE.
- 5. ADDITIONAL FLAGGERS MAY BE NEEDED AS DIRECTED BY THE ENGINEER.
- 6. WHEN WORK IS REQUIRED AT NIGHT, FLAGGER STATIONS SHALL BE ILLUMINATED.
- 7. CHANNELIZING DEVICE TYPES FOR: A. APPROACH AND EXIT TAPERS- RETROREFLECTIVE PLASTIC DRUMS B. ALONG LANE LINE AND WORK ZONE- TRAFFIC CONES (28" HEIGHT)
- 8. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

URBAN URBAN RURAL EXPRESS

	STATE	PROJECT NO.
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W20-7A WORK WORK AHEAD W20-1 (AHEAD)		
AH S S S S S S S S S S S S S S S S S S S		
AHEAD W20-4 (AHEAD)		
AHE AHE ONE L		
LEGEND		
FLAGGER		
 RETROREFLECTIVE FREE-STANDING PLASTIC TRAFFIC CONES (28" HEIGHT MINIMUM) 	CORUMS	
V TRAFFIC CONES (ZO HEIGHT MINIMUM)		
DISTANCE BETWEEN SIGNS		
ROAD TYPE A B C (35 MPH OR LESS) 100 FT. 100 FT. 100 FT.		
(40 - 70 MPH) 350 FT. 350 FT. 350 FT.		
500 FT. 500 FT. 500 FT. SSWAY / FREEWAY 1000 FT. 1500 FT. 2640 FT.		
I		
MISSISSIPPI DEPARTMENT C)F TRAN	SPORTATION
ROADWAY DESIGN STANDARD I	DIVISION	
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TWO-WAY TRAFFIC		WORKING NUMBER TCP-1
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1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING

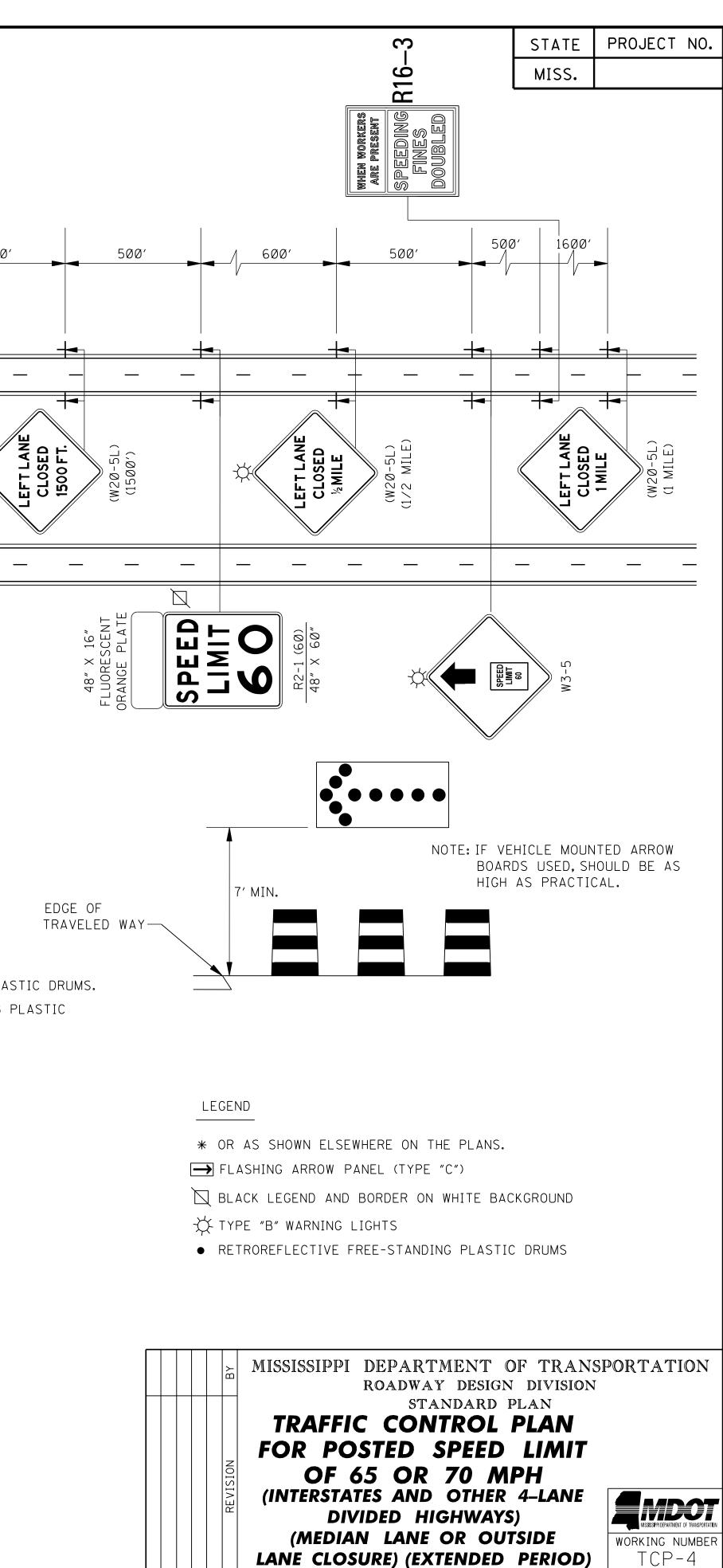
IABLE:						
POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		++ LONGITUDINAL BUFFER SPACE	TAPER [†] RATES		
mph	TAPER	ALONG BUFFER SPACE & WORK ZONE	(f+)	RAIES		
<u></u>	40	80	305	27:1		
45	45	90	36Ø	45:1		
50	5Ø	100	425	50:1		
55	55	11Ø	495	55 : 1		
60	6Ø	12Ø	57Ø	60:1		
65	65	130	645	65:1		
7Ø	7Ø	140	73Ø	7Ø:1		

+ NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS: L = WS FOR SPEEDS OF 45 mph OR GREATER $L = WS^2/60$ FOR SPEEDS OF 40 mph OR LESS WHERE: L = MINIMUM LENGTH OF TAPER IN FEET W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

- ++ NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.
- 2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.

3. CHANNELIZING DEVICES:

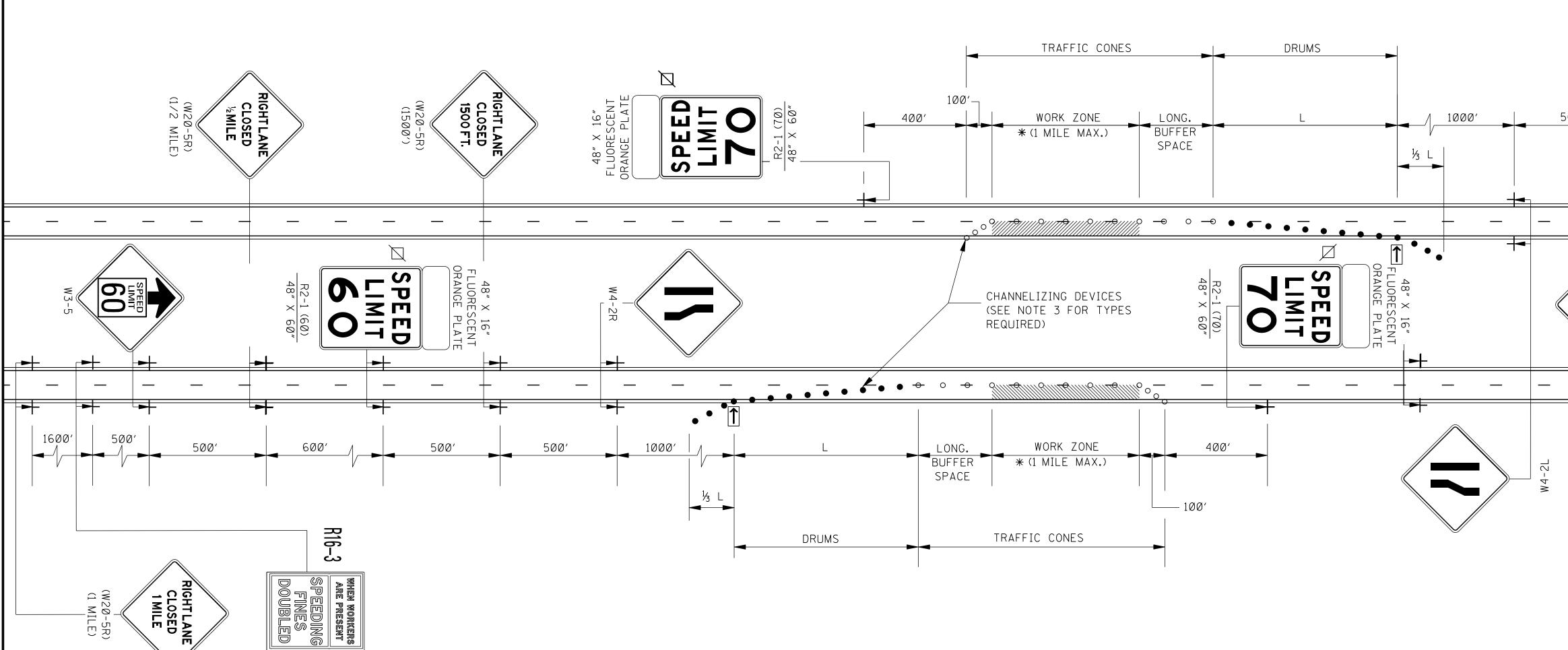
- A. ALL CHANNELIZING DEVICES IN TAPERS SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
- B. CHANNELIZING DEVICES IN TANGENTS MAY BE EITHER RETROREFLECTIVE FREE STANDING PLASTIC DRUMS OR 42" TALL CONES.
- C. ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE.
- D. RETROREFLECTORIZATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE M.U.T.C.D.
- 4. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48". AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.
- 5. ALL EXISTING SPEED LIMIT SIGNS WHICH ARE INFLUENCED BY OR CONFLICT WITH THE SPEED ZONE REDUCTION SHALL BE COVERED AS DIRECTED BY THE ENGINEER WHILE THE REDUCED SPEED LIMIT IS IN EFFECT. TAPE SHALL NOT BE USED ON FACE OF SIGN.
- 6. ADDITIONAL REDUCED REGULATORY SPEED LIMIT SIGNS ARE REQUIRED AT EACH ENTRANCE RAMP WITHIN THE SPEED ZONE. TWO (2) WILL BE REQUIRED FOR EACH RAMP AND LOCATION WILL BE DETERMINED BY THE ENGINEER.
- 7. THIS TRAFFIC CONTROL PLAN, WITH SPEED ZONE, MAY NOT BE USED ON ANY FACILITY WHERE THE POSTED SPEED LIMIT IS BELOW 65 MPH WITHOUT A COMMISSION ORDER REQUESTING A SPEED LIMIT REDUCTION.
- 8. LAYOUT SHOWN ABOVE IS FOR AN INTERSTATE WITH A POSTED SPEED LIMIT OF 70 MPH. FOR POSTED SPEED LIMIT OF 65 MPH, THE REDUCED SPEED LIMIT WILL BE 55 MPH.
- 9. A FLUORESCENT ORANGE PLATE IS REQUIRED WITH ALL REGULATORY SPEED LIMIT SIGNS REQUIRED FOR LANE CLOSURE.
- 10. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.



SISSUE DATE: AUGUST Ø1, 2017

SHEET NUMBER

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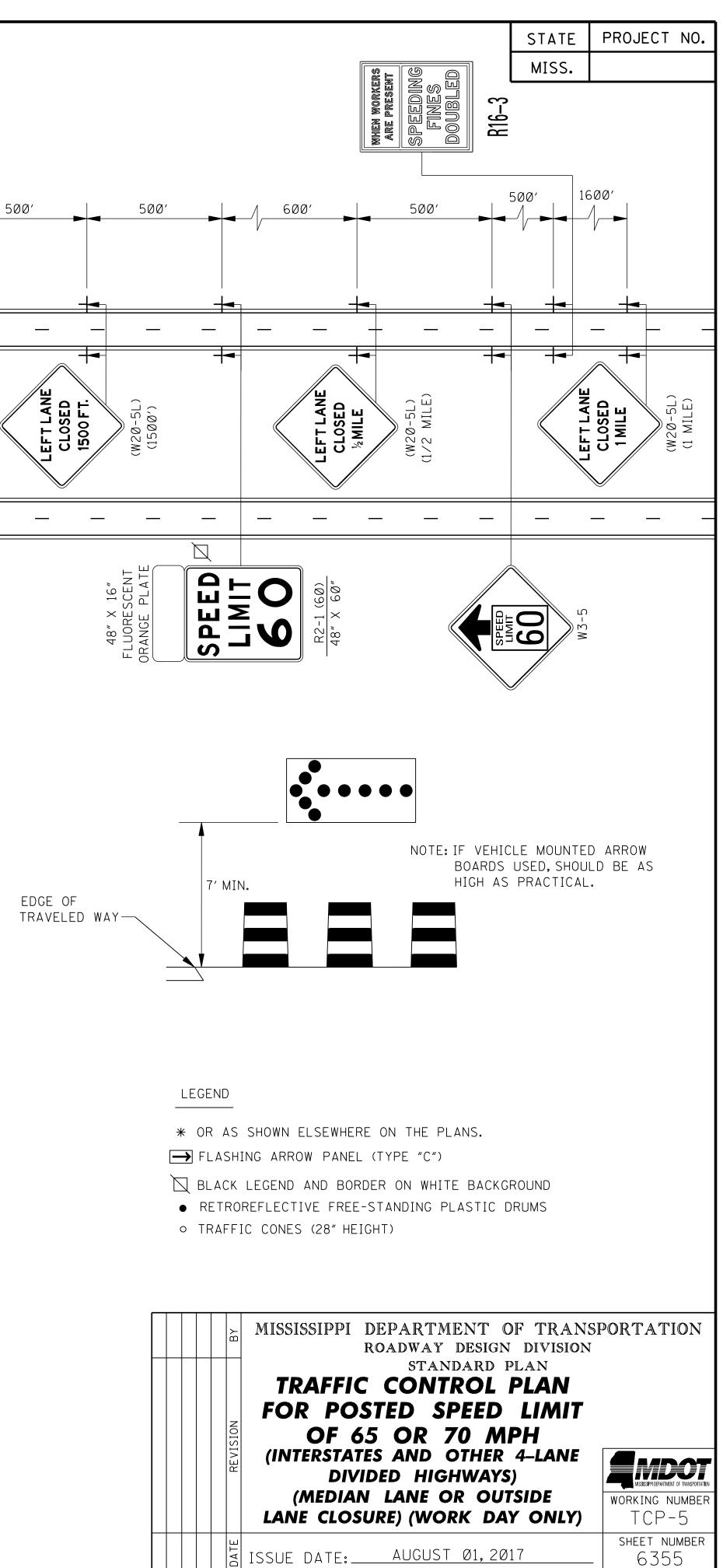
GENERAL NOTES:

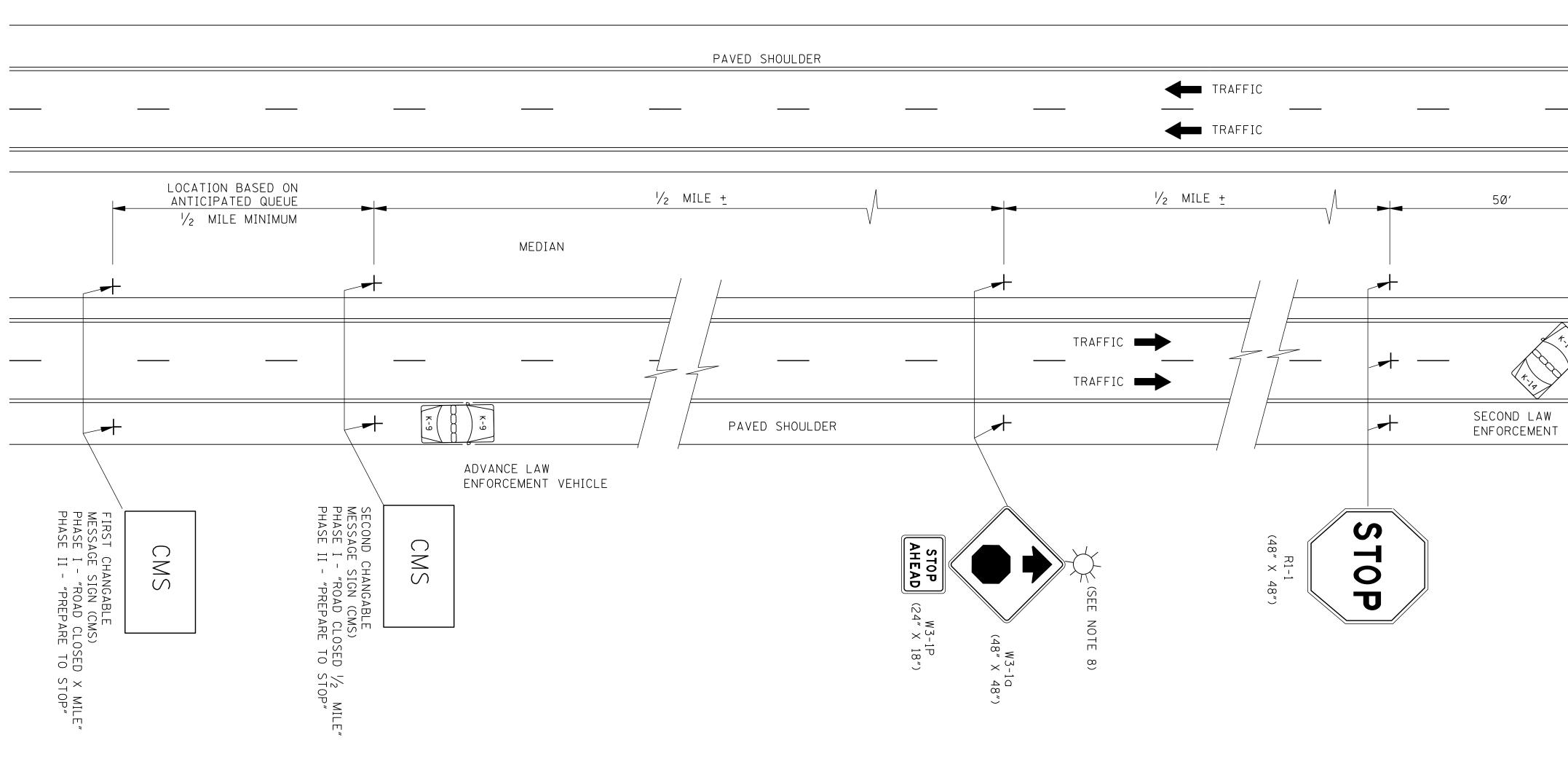
1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE.

POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		++ LONGITUDINAL BUFFER SPACE	TAPER [†] RATES
DESIGN SPEED	TAPER	ALONG LANE LINE &	(f+)	RAIES
mph		WORK ZONE		
<u>≤</u> 4Ø	4Ø	8Ø	3Ø5	27:1
45	45	90	36Ø	45:1
50	5Ø	100	425	50:1
55	55	11Ø	495	55:1
6Ø	6Ø	12Ø	57Ø	60:1
65	65	130	645	65:1
7Ø	7Ø	14Ø	730	7Ø : 1

- + NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS: L = WS FOR SPEEDS OF 45 mph OR GREATER
- L = WS²/60 FOR SPEEDS OF 40 mph OR LESS
- WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
 - W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET
 - S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR
- ++ NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.
- 2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.

- 3. CHANNELIZING DEVICE TYPES FOR: A. APPROACH TAPER- RETROREFLECTIVE PLASTIC DRUMS
- B. ALONG LANE LINE AND WORK ZONE- TRAFFIC CONES (28" HEIGHT MINIMUM) C. EXIT TAPER- TRAFFIC CONES (28" HEIGHT MINIMUM)
- 4. WHEN WORK ZONE IS NO LONGER NEEDED, ALL SIGNS SHALL BE COVERED OR REMOVED AND THE DRUMS SHALL BE MOVED TO THE SHOULDER EDGE AT THE END OF THE WORK DAY.
- 5. FOR MOVING OPERATIONS (PAVING) THE CONTRACTOR SHALL HAVE TWO (2) SETS OF ADVANCE WARNING AND REGULATORY SIGNS, PLASTIC DRUMS, AND ARROW BOARD. WHEN THE CONSTRUCTION ZONE IS MOVED AHEAD, ALL SIGNS, PLASTIC DRUMS AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY SIGNS, PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.
- 6. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48". AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.
- 7. ALL EXISTING SPEED LIMIT SIGNS WHICH ARE INFLUENCED BY OR CONFLICT WITH THE SPEED ZONE REDUCTION SHALL BE COVERED AS DIRECTED BY THE ENGINEER WHILE THE REDUCED SPEED LIMIT IS IN EFFECT. TAPE SHALL NOT BE USED ON THE FACE OF SIGN.
- 8. ADDITIONAL REDUCED REGULATORY SPEED LIMIT SIGNS ARE REQUIRED AT EACH ENTRANCE RAMP WITHIN THE SPEED ZONE. TWO (2) WILL BE REQUIRED FOR EACH RAMP AND LOCATION WILL BE DETERMINED BY THE ENGINEER.
- 9. THIS TRAFFIC CONTROL PLAN, WITH SPEED ZONE, MAY NOT BE USED ON ANY FACILITY WHERE THE POSTED SPEED LIMIT IS BELOW 65 MPH WITHOUT A COMMISSION ORDER REQUESTING A SPEED LIMIT REDUCTION.
- 10. LAYOUT SHOWN ABOVE IS FOR AN INTERSTATE WITH A POSTED SPEED LIMIT OF 70 MPH. FOR POSTED SPEED LIMIT OF 65 MPH, THE REDUCED SPEED LIMIT WILL BE 55 MPH.
- 11. A FLUORESCENT ORANGE PLATE IS REQUIRED WITH ALL REGULATORY SPEED LIMIT SIGNS AND "REDUCED SPEED AHEAD" SIGNS REQUIRED FOR LANE CLOSURE.
- 12. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.





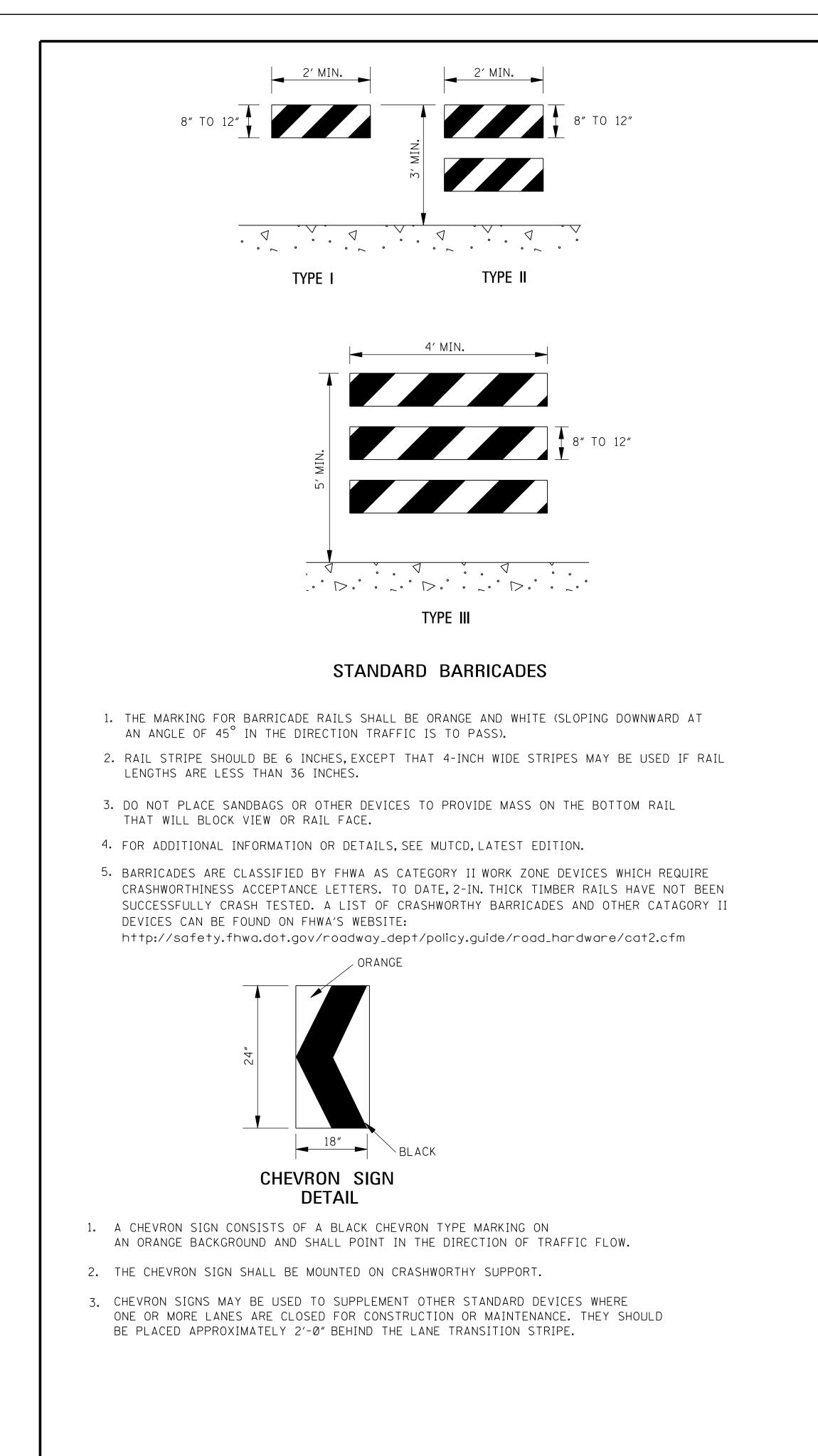
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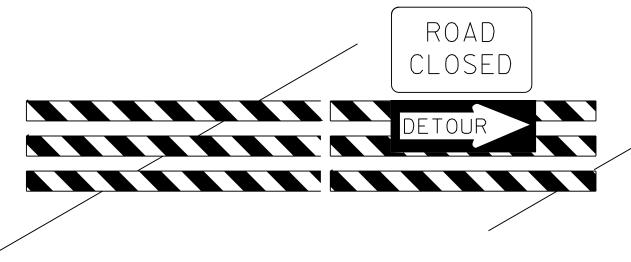
- 1. THIS TYPE OF HIGHWAY CLOSURE SHOULD ONLY BE USED FOR CONSTRUCTION OPERATIONS WHEN THE DURATION OF CLOSURE WILL NOT EXCEED 30 MINUTES. AFTER THE HIGHWAY HAS BEEN CLOSED AND REOPENED VIA THIS PROCEDURE, A MINIMUM PERIOD OF 30 MINUTES SHOULD ELAPSE BEFORE ANOTHER SHORT DURATION CLOSURE, EXCEPT WITH THE APPROVAL OF THE ENGINEER.
- 2. AT LEAST TWO LAW ENFORCEMENT OFFICERS AND TWO LAW ENFORCEMENT VEHICLES SHOULD BE PROVIDED ON EACH APPROACH TO THE CLOSURE. EACH LAW ENFORCEMENT VEHICLE SHOULD HAVE A ROOF MOUNTED FLASHING BLUE LIGHT OR LIGHT BAR.
- 3. RESTRICTIONS ON ROAD CLOSURES ARE SPECIFIED IN THE CONTRACT DOCUMENT.
- 4. THE ADVANCE LAW ENFORCEMENT VEHICLE SHOULD BE MOVED BACK AS REQUIRED BY THE QUEUING OF STOPPED VEHICLES.
- 5. IF QUEUE EXCEEDS THE FIRST CHANGABLE MESSAGE SIGN (CMS) AT ANYTIME DURING A CLOSURE; THE TRAFFIC CONTROL PLAN SHOULD BE ADJUSTED AS NECESSARY, WITH APPROVAL OF THE ENGINEER.

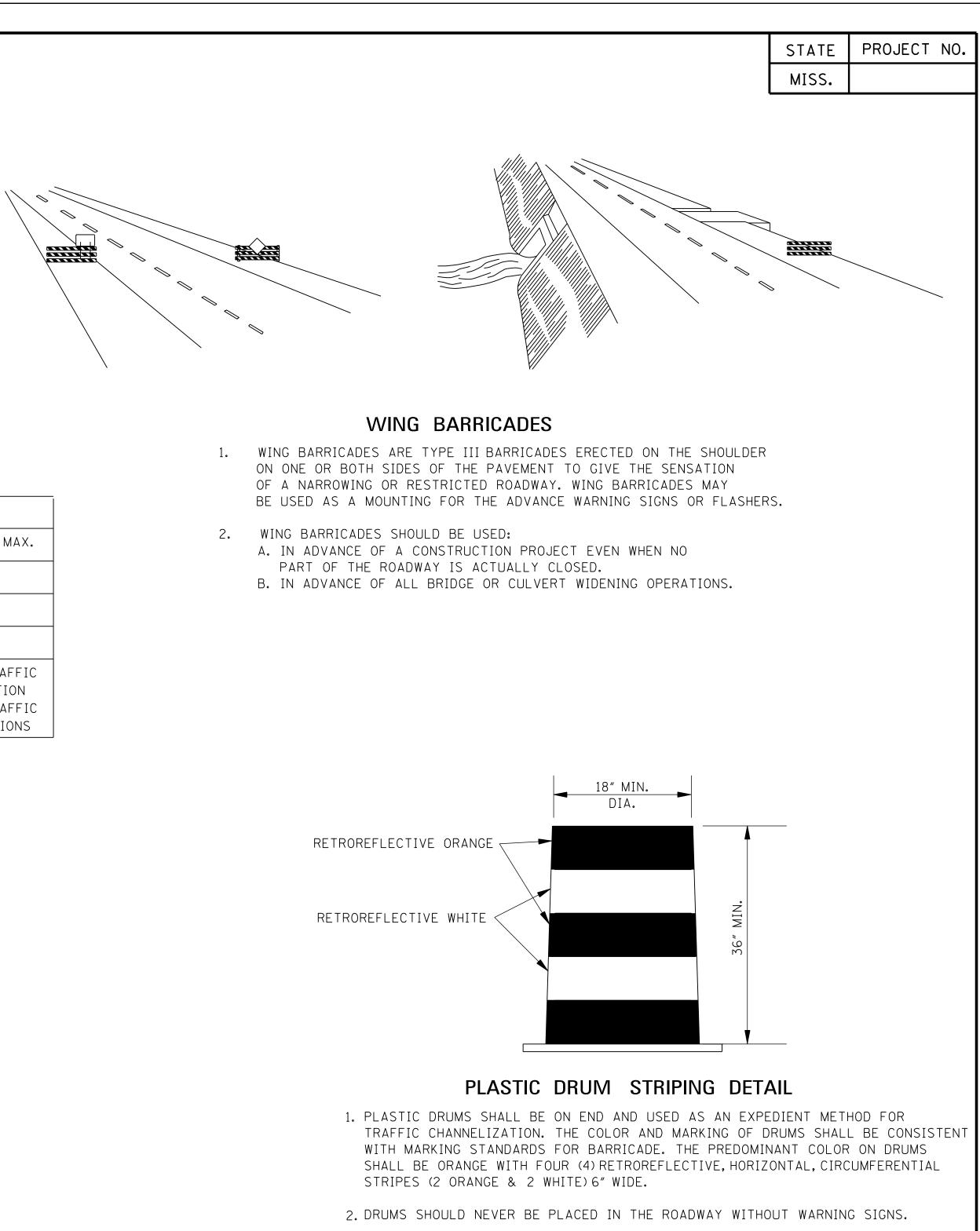
- 6. TRAFFIC CONTROL FOR THE CLOSURE SHOULD BE ACCOMPLISHED IN THE FOLLOWING ORDER:A. FIRST CHANGABLE MESSAGE SIGN (CMS)
- B. SECOND CHANGEABLE MESSAGE SIGN (CMS)
- C. ADVANCE LAW ENFORCEMENT VEHICLE, LIGHTS AND FLASHERS ON.
- D. "W3-1a (48" X 48")" AND "W3-1P (24" X 18")" SIGNS ERECTED.
- E. "R1-1 (48" X 48")" SIGNS ERECTED TO STOP TRAFFIC. THE ORDER OF ERECTION SHOULD BE TOWARD THE MEDIAN SHOULDER IN THE FOLLOWING ORDER: RIGHT SHOULDER, THEN CENTER, THEN MEDIAN SHOULDER.
- F. SECOND LAW ENFORCEMENT VEHICLE, LIGHTS AND FLASHERS ON.
- 7. TRAFFIC CONTROL SHOULD BE REMOVED IN THE FOLLOWING ORDER:
- A. WITH TRAFFIC STOPPED REMOVE THE "R1-1 (48" X 48")" SIGNS TOWARD THE RIGHT SHOULDER IN THE FOLLOWING ORDER: MEDIAN, THEN CENTER, THEN SIGN ON THE RIGHT SHOULDER. SECOND LAW ENFORCEMENT VEHICLE LEADS TRAFFIC THROUGH WORK AREA.
- B. AFTER ALL STOPPED VEHICLES HAVE STARTED MOVING, THE "W3-1a (48" X 48)" AND "W3-1P (24" X 18") SIGNS SHOULD BE REMOVED. THESE SIGNS MAY BE COVERED IF RE-USE IS IMMENENT.
- C. AFTER ALL VEHICLES HAVE RESUMED APPROXIMATELY NORMAL SPEED, THE CHANGABLE MESSAGE SIGNS TURNED OFF.

- 8. UNILLUMINATED SECTIONS OF HIGHWAYS SHOULD BE CLOSED DURING HOURS OF DARKNESS EXCEP EMERGENCIES OR WITH THE APPROVAL OF THE H WHEN THE HIGHWAY MUST BE CLOSED DURING H OF DARKNESS, A TYPE B HIGH INTENSITY FLASHING BARRICADE WARNING LIGHT SHALL BE USED ON EACH W3-10 SIGN.
- 9. IF AN ENTRANCE RAMP IS LOCATED BETWEEN THE SECOND CMS AND R1-1, THE CMS, "W3-1a (48" X 48")", AND "W3-1P (24 "X 18") SIGNS SHOULD ALSO BE ERECTED ON THE RAMP SHOULDER.
- 10. THE ABOVE DURATION WILL APPLY TO EACH AF TO THE CLOSURE.
- 11. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS WILL NOT BE MEASURED FOR SEPARATE PAYME WORK SHALL BE INCLUDED IN THE PRICE BID F MAINTENANCE OF TRAFFIC, INCLUDING SECURING LAW ENFORCEMENT SERVICES.

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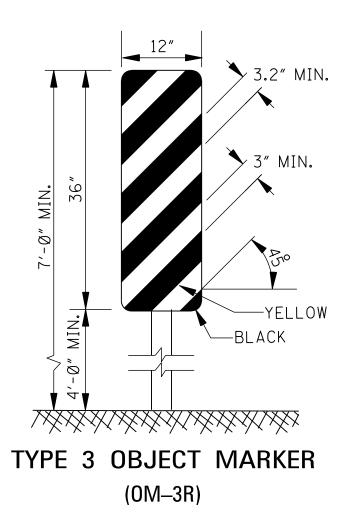
BARRICADE CLOSING A ROAD

BARRICADE CHARACTERISTICS

	I	I	ш
WIDTH OF RAIL * *	8″ MIN 12″ MAX.	8″ MIN 12″ MAX.	8″ MIN 12″ MAX.
LENGTH OF RAIL **	24″ MIN.	24″ MIN.	48″ MIN.
WIDTH OF STRIPE *	6″	6″	6″
HEIGHT	36″ MIN.	36″ MIN.	60″ MIN.
NUMBER OF RETROREFLECTORIZED RAIL FACES	2 (ONE EACH DIRECTION)	4 (TWO EACH DIRECTION)	3 IF FACING TRAFFIC IN ONE DIRECTION 6 IF FACING TRAFFIC IN TWO DIRECTIONS

* 1. FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.

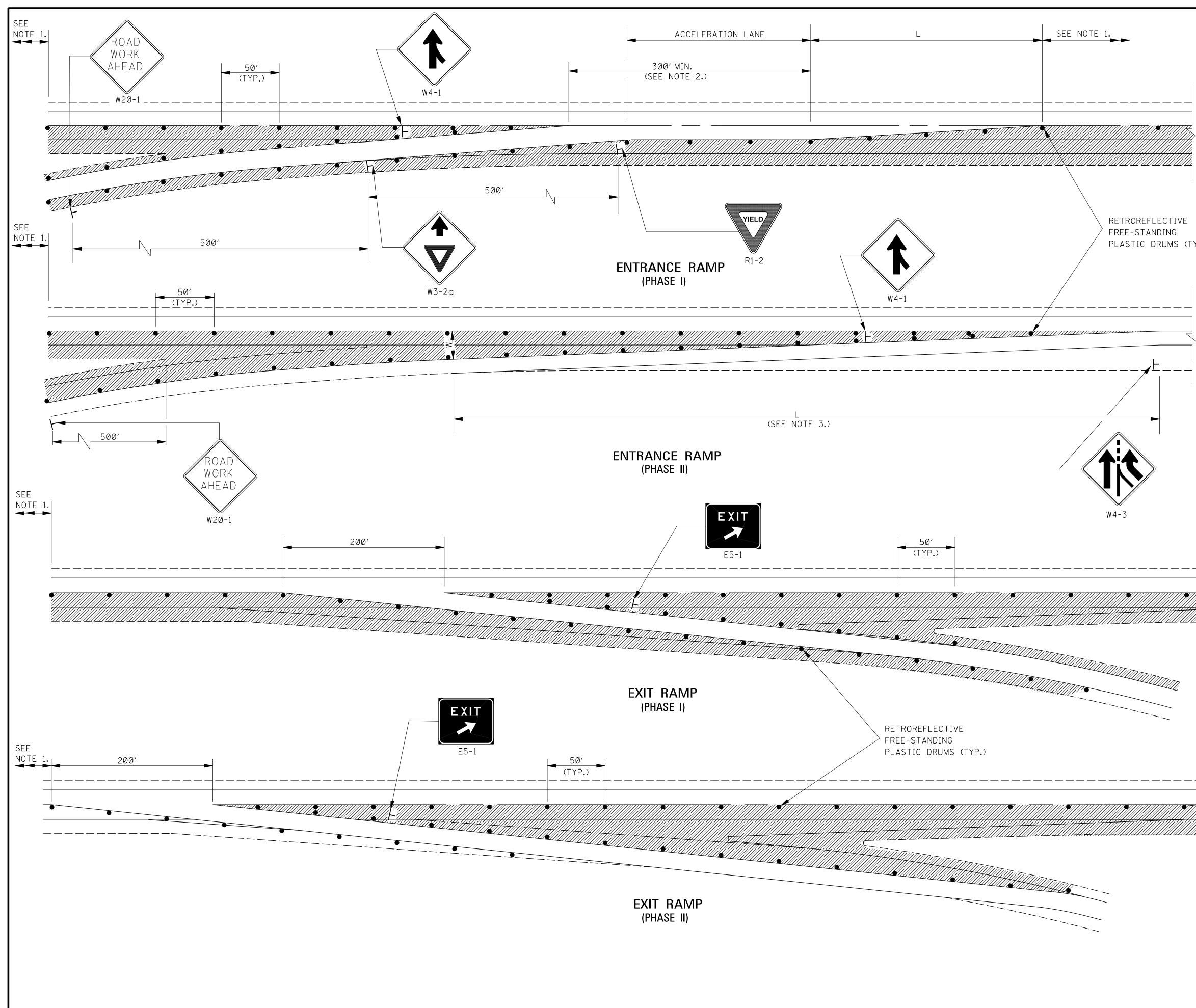
** 2. BARRICADES INTENDED FOR USE ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH SPEED ROADWAYS, SHALL HAVE A MINIMUM OF 270 in² of reflective area FACING TRAFFIC.



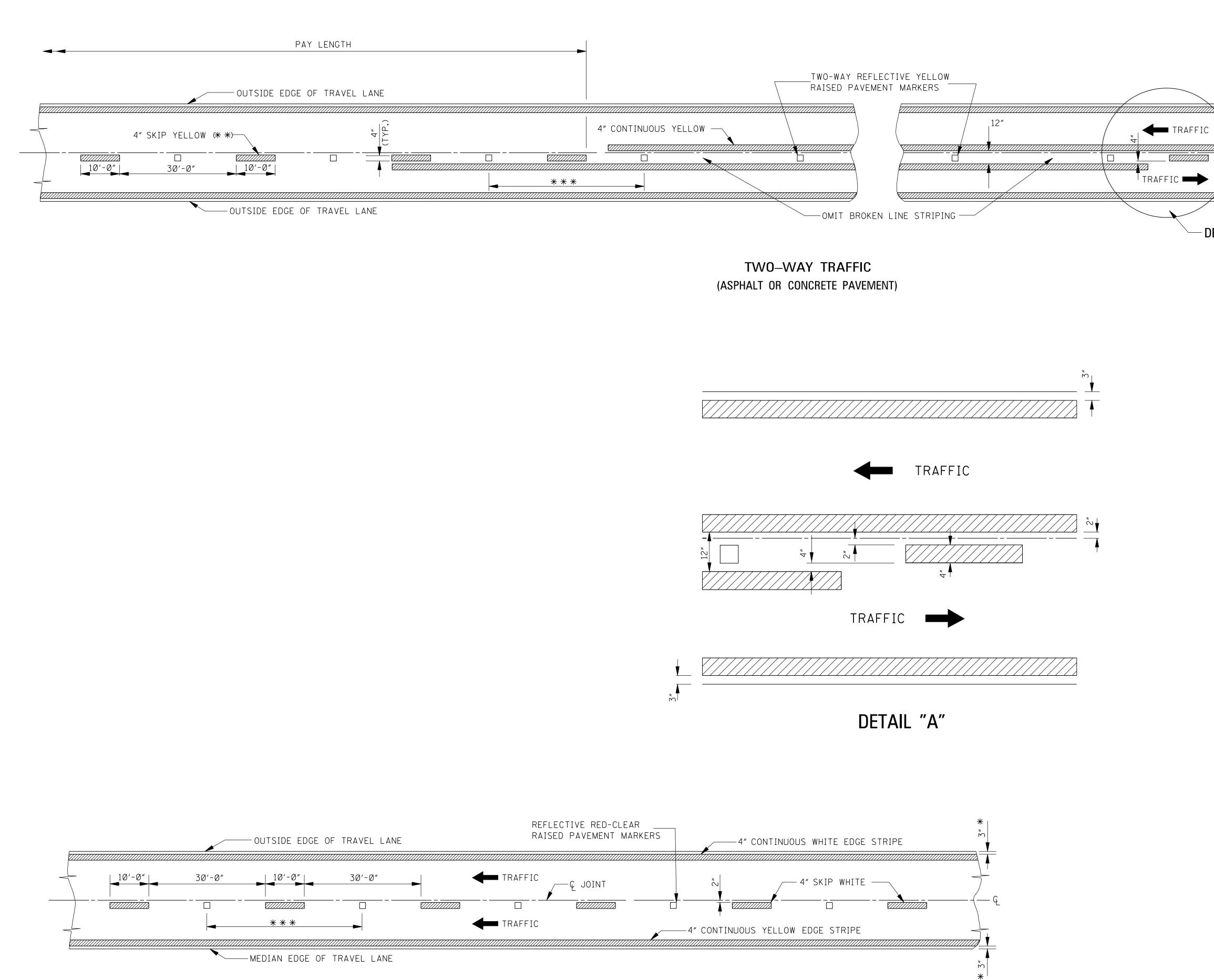
- 1. TYPE 3 OBJECT MARKERS SHALL BE USED AT ALL EXPOSED BRIDGE ABUTMENTS AND AT OTHER LOCATIONS AS DEEMED NECESSARY BY THE ENGINEER.
- 2. THE OM-3R IS SHOWN. THE OM-3L IS SIMILAR EXCEPT THE STRIPES SLOPE DOWNWARD FROM THE UPPER LEFT SIDE TO THE LOWER RIGHT SIDE AND SHALL BE PLACED ON THE LEFT SIDE OF THE OBJECT.
- 3. THE INSIDE EDGE OF THE MARKER SHALL BE IN LINE WITH THE INNER EDGE OF THE OBSTRUCTION.

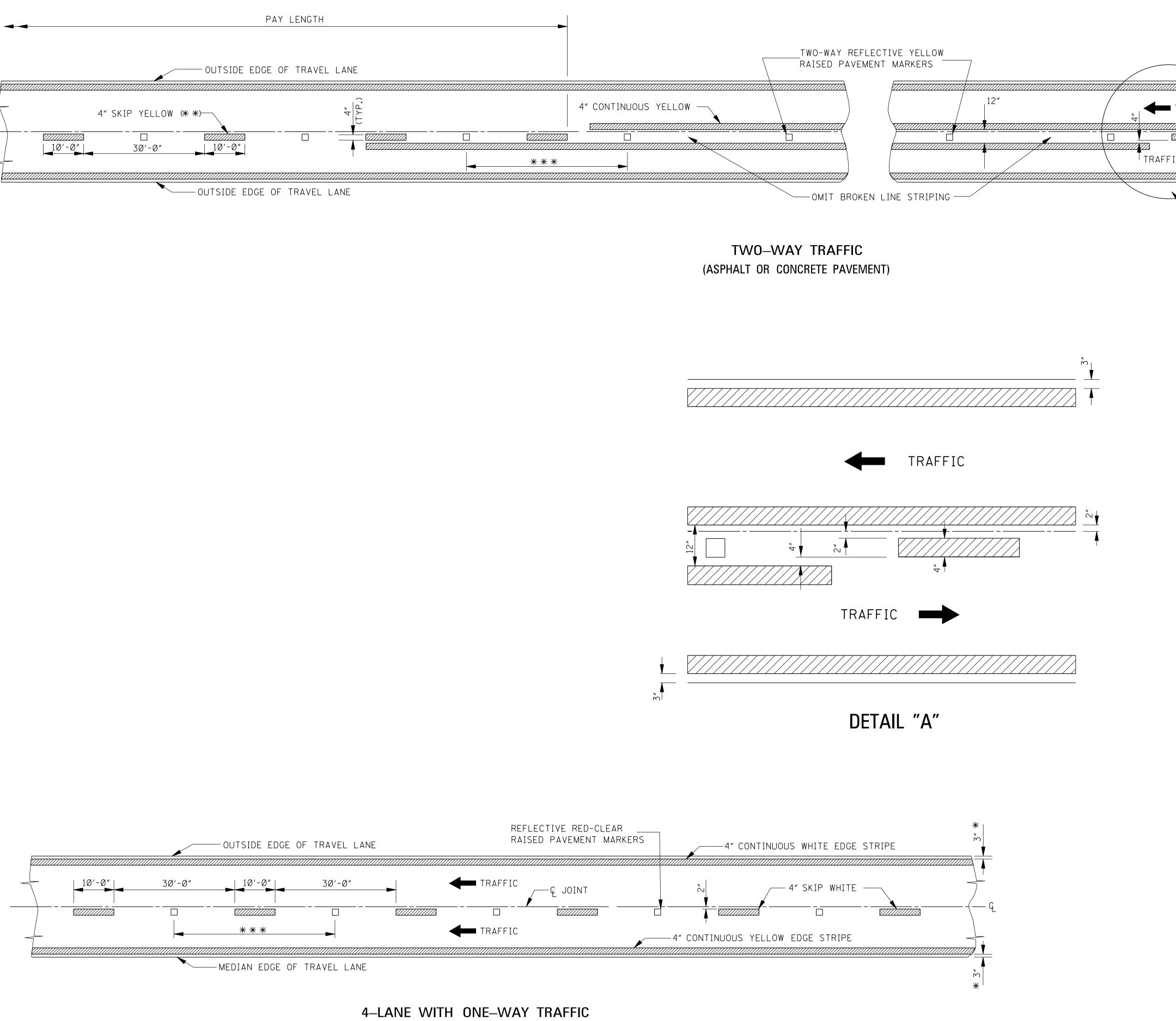
3. WHERE PRACTICAL PLASTIC DRUMS SHOULD BE PLACED NO CLOSER THAN 3'-Ø" FROM THE EDGE OF TRAVELED LANE.

	BY	MISSISSIPPI DEPARTMENT OF TRANS Roadway design division standard plan	PORTATION
	REVISION	HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS	WORKING NUMBER
	DATE	ISSUE DATE: AUGUST Ø1,2017	sheet number 6358



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YP.)								MESSAGE SIGN	(CMS)	
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					GENEF	RAL NOTE	ES:			
					DR	UM SPAC	CING CRITERIA	ARROW PANEL, , see typical	TRAFFIC	
					SH		Р-2, ТСР-3, ТС	NE CLOSURES CP-4, AND TCP-		
					2. IF	NO ACC	ELERATION LA	NE EXISTS TRANCE, THE Y	IFLD SIGN	
					(R1 BE	-2) AND REPLAC	THE YIELD AH ED WITH A ST	EAD SIGN (W3- OP SIGN (R1-1	-2A)SHALL)and a st(
					WH	ERE STO	P SIGNS ARE	ON EACH SID USED, A TEMPO ACROSS THE	ORARY STOP	>
					DE AR	SIRED S ⁻ E AVAIL,	TOP LOCATION	. IF INSUFFIC TRAFFIC STREA	IENT GAPS AM,	
						NSIDERA E RAMP.	IION SHOULD	BE GIVEN TO	CLOSING	
					EQ	UATIONS	o o	JTS USING THE 15 mph OR GR		G
					L WH	= WS ² /6 ERE:	Ø FOR SPEEDS	5 OF 40 mph	OR LESS	
					W	= WIDTH	OF OFFSET I	TAPER IN FE N FEET 5TH PERCENTI		V
		_				MILES	PER HOUR	TEMS SHOWN (
///////////////////////////////////////	77777				PA	YMENT.	THIS WORK SH	SURED FOR SE	DED IN THE	
					PR	ICE BID	FOR MAINTENA	ANCE OF TRAFI	FIC.	
				MIG	SISSIDD			OF TRANS	יוס מיד א מדי	
)1001PP			N DIVISION	PURIAII	
			NOISTON					DE LANE		
			DEVI	L			RE AT E RANCE I			T OF TRANSPORTATION
									working n TCP-	
					e date	:A	UGUST Ø1,2	2017	SHEET NL 636	
	t									



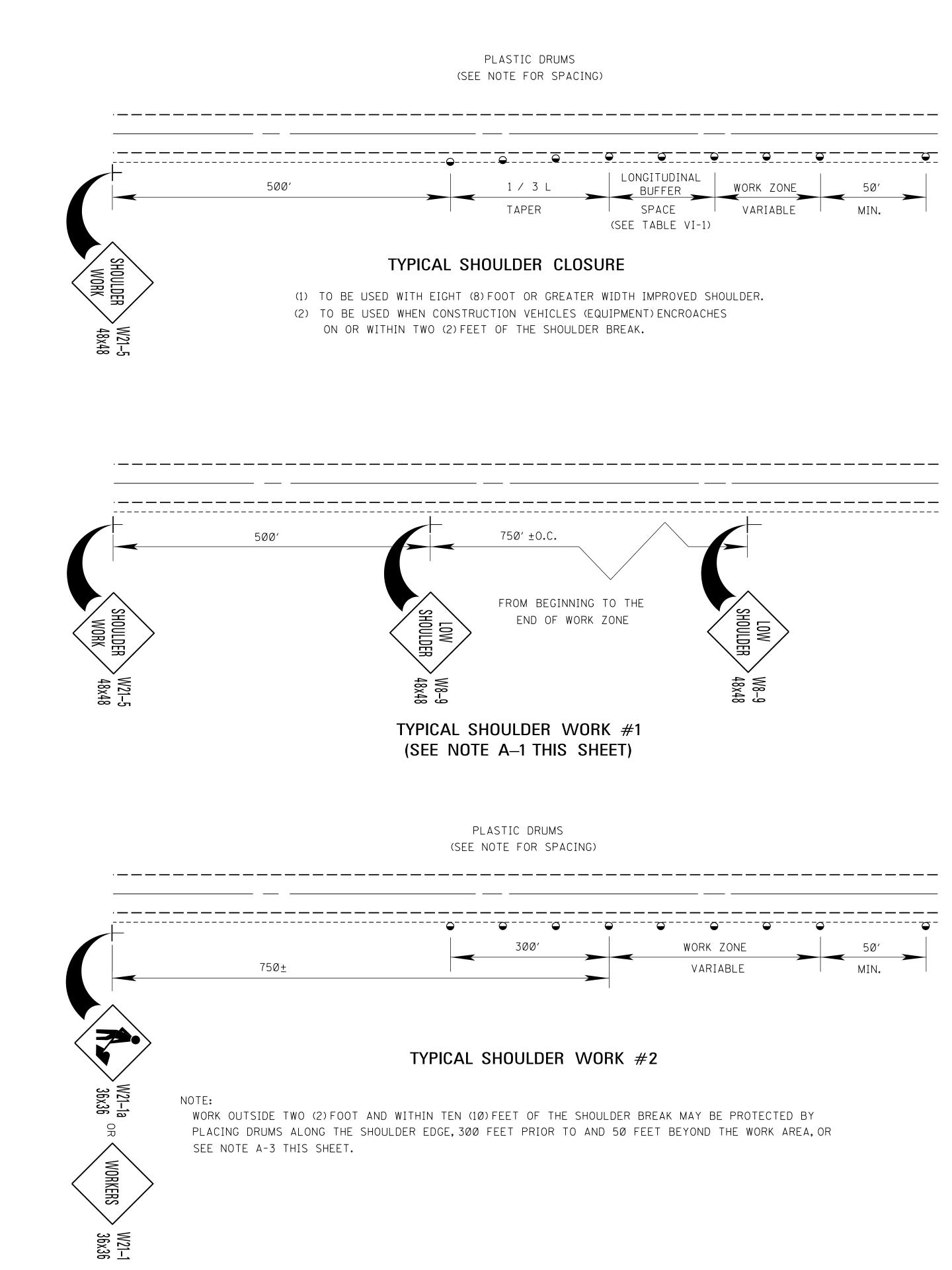


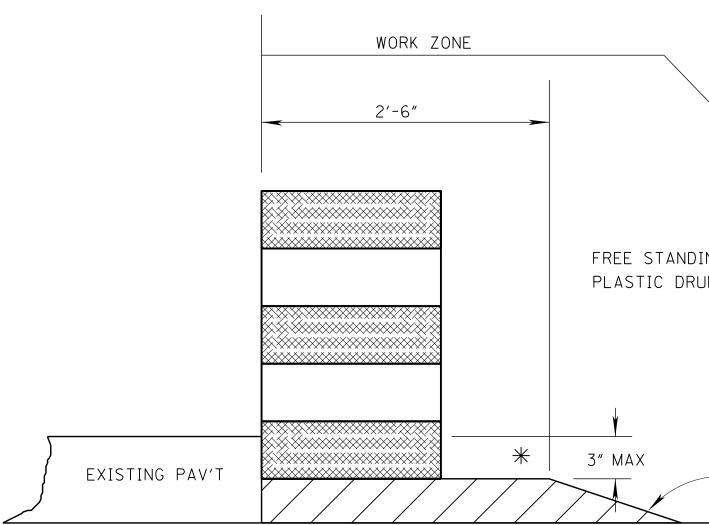
STATE | PROJECT NO. MISS. // 4" CONTINUOUS WHITE EDGE STRIPE (***) YELLOW (* *)— --Ę JOINT ____4" CONTINUOUS WHITE EDGE STRIPE (**) - DETAIL "A" DIRECTION OF TRAFFIC GENERAL NOTES: * 1. 3" UNLESS SHOWN ELSEWHERE ON THE PLANS. * * 2. EDGE STRIPE SHALL BE SAME MATERIAL AS LANE-LINE STRIPE (PAINT OR TAPE AS INDICATED IN PAY ITEMS). 3. REFLECTIVE RAISED PAVEMENT MARKERS TO BE USED IF TEMPORARY MARKINGS ARE TO REMAIN IN PLACE OVER 3 MONTHS * * * 4. SPACING OF REFLECTIVE RAISED PAVEMENT MARKERS IS AS FOLLOWS: urban area RURAL AREA (ft-in) (ft-in) TANGENT SECTIONS 40'-0" 80′-0″ HORIZONTAL CURVES 40'-0" 40'-0" INTERCHANGE LIMITS 40'-0" + 40'-0" + NOTE: ON THE MAIN FACILITY, REFLECTIVE RED-CLEAR RAISED PAVEMENT MARKERS ON A 40'-0" SPACING WILL BE REQUIRED ON LANE-LINE(S) THROUGH ALL INTERCHANGE AREAS BEGINNING 1000'IN ADVANCE (IN DIRECTION OF TRAFFIC) OF THE EXIT RAMP TAPER AND CONTINUING THROUGH THE INTERCHANGE TO THE

> 5. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE REFLECTIVE RAISED PAVEMENT MARKERS AS LISTED IN THE MDOT "APPROVED SOURCES OF MATERIALS."

END OF THE ENTRANCE RAMP TAPER.

	BΥ	MISSISSIPPI DEPARTMENT OF TRANS ROADWAY DESIGN DIVISION STANDARD PLAN	PORTATION
	ISION	TEMPORARY STRIPING FOR TRAFFIC CONTROL	2
	REV	2–LANE AND 4–LANE DIVIDED HIGHWAYS	MISSISSIPI DEPARIMENT OF TRANSPORTATION
			working number TCP-13
	DATE	ISSUE DATE: AUGUST Ø1, 2017	SHEET NUMBER
		TE REVISION	Image: Control of the second strand stran





GRANULAR MATERIAL REQUIRED (SAME CLASSIFICATION AS SHOULDER MATERIAL, SEE TYPICAL SECTIONS)

DETAIL OF DRUM PLACEMENT AT PAVEMENT EDGE DROP-OFF

NOTES:

₭ A. PAVEMENT EDGE DROP-OFF

- 1. IF LESS THAN TWO AND ONE QUARTER (2.25) INCHES-NO PROTECT OF WORK ZONE SHOULDER AND A LOW SHOULDER SIGN (W8-9) AT
- 2. TWO AND ONE QUARTER TO THREE INCHES-PLACE DRUMS, VERTICA OF 50 MILES PER HOUR OR GREATER. CONES MAY BE USED IN PL TANGENT SECTIONS WITH SPEEDS LESS THAN 50 MILES PER HOUR FOR TAPERS SHOULD BE IN ACCORDANCE WITH THE M.U.T.C.D. (1 /
- 3. GREATER THAN THREE (3) INCHES-POSITIVE SEPARATION OR WEDGE DISTANCE BETWEEN THE EDGE OF TRAVEL LANE AND DROP-OFF, THE
- 4. FOR TEMPORARY CONDITIONS, DROP-OFFS GREATER THAN THREE (FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS
- 5. LESSER TREATMENTS THAN THOSE DESCRIBED ABOVE MAY BE CON

B. DRUM SPACING

- 1. TANGENTS = 2 X S
- 2. TAPERS = L / 3
- WHERE L = S X W
- L = TAPER LENGTH IN FEET
- S = SPEED IN MPH (POSTED OR 85 PERCENTILE)
- W = WIDTH OF OFFSET IN FEET
- C. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET SHALL BE PAI TABLE VI-1. GUIDELINES FOR LENGTH OF

LONGITUDINAL BUFFER SPACE

★★ SPEED (MPH)	LENGTH (FEET)
20	35
25	55
30	85
35	12Ø
40	17Ø
45	22Ø
5Ø	28Ø
55	335
60	415
65	485

★ ★ POSTED SPEED, OFF-PEAK 85 PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH.

	STATE	PROJECT NO.
	MISS.	
NG		
IMS		
4:1 OR FLATTER SLOPE		
K V		
ORIGINAL GROUND LINE	Ξ	
TION REQUIRED.PLACE A SHOULDER WORK SIGN (W21-5)500 F THE BEGINNING AND THROUGHOUT THE WORK ZONE @ (750'+0.		
AL PANELS OR BARRICADES EVERY 100 FEET ON TANGENT SE ACE OF DRUMS,PANELS,AND BARRICADES DURING DAYLIGHT H R AND FOR CURVES,DEVICES SHOULD BE PLACED EVERY 50 F 3 L,WHERE L IS THE TAPER LENGTH IN FEET.)	HOURS. FOR	
E WITH 4:1 OR FLATTER SLOPE NEEDED.IF THERE IS EIGHT (HEN DRUMS, PANELS OR BARRICADES MAY BE USED.	8)FEET OR MORE	
3)INCHES MAY BE PROTECTED WITH DRUMS,VERTICAL PANELS BEING DONE IN THE DROP-OFF AREA.	S OR BARRICADES	
NSIDERED FOR LOW-VOLUME LOCAL STREETS.		
ID FOR UNDER MAINTENANCE OF TRAFFIC.		
ID FOR UNDER WAINTENANCE OF TRAFFIC.		
MISSISSIPPI DEPART ROADWAY	MENT OF TRANS Y DESIGN DIVISION	
STA	NDARD PLAN	
		TCP-16
AUGUS	ST Ø1,2017	SHEET NUMBER _ 6366

DESCRIPTION OF SHEETS

DETAILED INDEX (BRIDGE)

UNDERPASS AT STATION 1770+10.85, CR 39 OVER 1-59, BRIDGE REPAIR BRIDGE REPAIR LAYOUT, GENERAL NOTES, & ESTIMATED OUANTITIES EPOXY REPAIR AND FRP WRAP DETAILS 70 FT. SPAN 3 DETAILS BEAM DETAILS SHEET (TYPE III) SPAN 3

MISC. SPAN 3 DETAILS

SPECIAL DESIGN SHEETS INFORMATION PLANS

INFORMATION PLANS INFORMATION PLANS INFORMATION PLANS INFORMATION PLANS INFORMATION PLANS

WORKING NUMBER	SHEET NUMBER
DI-BR-1	8001
1 OF 5	8002
2 OF 5	8003
3 OF 5	8004
4 OF 5	8005
5 OF 5	8006

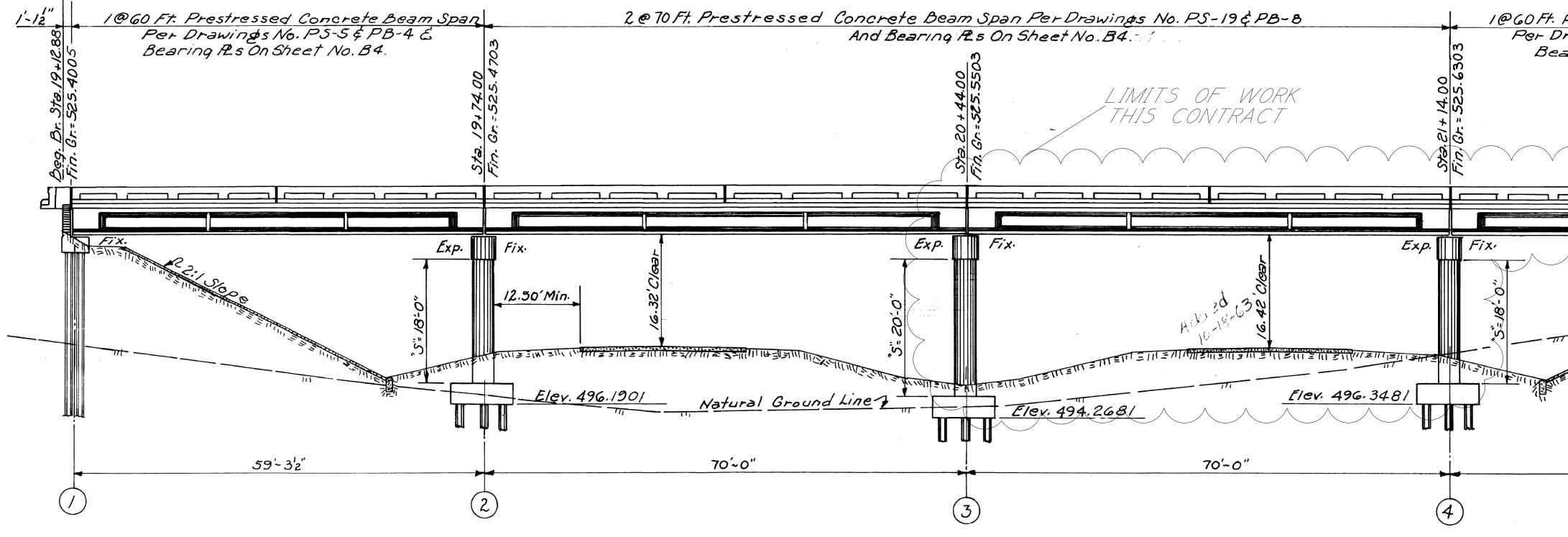
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WORKING NUMBER	SHEET NUMBER
	8007
	8008
	8009
	8010
	8011
	8012

						MISS.	MRP-6059-31(019)
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		REVIS.	IONS					
		SHEE	T NO.		BY			
						NT ΛΓ 1	ΫΒ Δ ΝΙΩΒΩΒΥΓΑ ΨΙΛΥ	
			ΙΨΙ				TRANSPORTATION	
			ΙΨΙ				rransportation 1770+10.85	
			ΙΨΙ					
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HI OF			LE REVISION	JNDERP DET MS: 307159 DUNTY: JA ROJECT NU SIGNER <u>SHANE WRI</u>	ASS AT AILED IN 9/301000 SPER JMBER: MRP-E GHTCHECKE ISSUE	STA. IDEX (059-31(0 <u>rpaul dees</u> date <u>5/12/2020</u>	1770+10.85 BRIDGE) 19) WORKING NUMB DI-BR-1 SHEET NUMBE	ER
The solution of the solution o			LE REVISION	JNDERP DET MS: 307159 DUNTY: JA ROJECT NU SIGNER <u>SHANE WRI</u>	ASS AT AILED IN 9/301000 sper Jmber: MRP-6	STA. IDEX (059-31(0 <u>rpaul dees</u> date <u>5/12/2020</u>	1770+10.85 BRIDGE) 19) WORKING NUMB DI-BR-1 SHEET NUMBE	ER

PROJECT NO.

STATE



GENERAL NOTES:	
Specifications: Mississippi Standard Specifications For Road and	
Bridge Construction, 2017.	
No change of plans will be permitted except by the approval of the	SC
Director of Structure's, State Bridge Engineer provided such changes	<u> </u>
will not be cause for contract price adjustments.	1.
Prior to the construction, all dimensions of the existing structure	1 .
shall be field verified by the Contractor.	2.
The Contractor shall be responsible for adjusting the elements of the	<i>~ •</i>
repair to ensure proper fit with the existing structure.	
All details are based on the dimensions shown on the original plans for	3.
the existing structure.	0.
Work for which no pay item is provided in the plans will not be paid	
for directly and shall therefore be considered an absorbed item of	4.
work.	4.
All new concrete shall be class AA.	
All reinforcing steel shall be ASTM A615, grade 60 unless otherwise	
noted.	
Any damage the occurs to the existing structure during the duration of	
this project shall be repaired to the satisfaction of the Engineer by	
the Contractor at no additional cost to the State.	
All material removed from the bridge shall become the property of the	
Contractor and shall be removed from the construction site.	
During construction, care shall be exercised to ensure that no debris falls	
onto the travel lanes below the structure.	
Exposed surfaces of new concrete shall receive a class 2 rubbed finish in	
accordance with specifications.	
Match existing finish as nearly as possible. Chamfer all edges 4", unless otherwise noted.	
Chamfer all edges 4", unless otherwise noted.	
The final surface texture of the new bridge deck portion shall be tine finished	
according to 501.03.5.5.1 of the specifications.	
Railing expansion joint material shall be bituminous fiber type unless otherwise	
noted.	
Bar bending details shall be in accordance with "Manual of Standard Practice for	
Detailing Reinforced Concrete Structure" (ACL 315R-04).	
Reinforcement order list and required placing plans shall be furnished in accordance	
with Section 805 of the Mississippi Standard Specifications. Partial submittals	
are not acceptable.	
Shop drawings of prestressed beams, including an erection plan, shall be submitted	
' in duplicate to the Director of Structures, State Bridge Engineer for approval	

prior to the manufacture of beams. The fabricator shall provide camber data at release and immediately prior to shipping.

MAINTENANCE OF TRAFFIC:

Maintain Traffic in accordance with Section 618 2017 Edition of the Standard Specifications For Road and Bridge Construction, the lastest edition of the "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - PART 6" and the Traffic Control Plans included in these plans.

CLEANING NOTES:

Cap and columns at bent 4, diaphragm at bent 4, span 4, and underneath span 4 (including beams and deck) shall be cleaned by pressure washing to where all dirt, dust, soot from fire damage and any other debris is removed to the satisfaction of the Project Engineer. The pressure washer shall be able to maintain 3,500 psi of pressure.

COPE OF WORK:

- Remove and replace span no. 3 in accordance with these plans and the information plans.
- Clean and remove all dirt, debris, and soot from underneath span no. 4 which includes the bridge deck, beams, diaphragms, and etc... in accordance with "Cleaning Note" on this sheet. Remove all damaged and unsound concrete from cap and columns of bent 4 and end diaphragm of span 4 at bent 4 and repair
- with epoxy mortar. Install FRP on cap, columns, and diaphragm at bent 4 in accordance
- with details and notes on sheet no. 8003.

	ESTIMATED QUANTITIES		
PAY ITEM NO.	DESCRIPTION	QUANTITY	UNIT
907-824-PP003	Bridge Repair, Epoxy Repair	405	SF
907-824-PP003	Bridge Repair, FRP Wrap	687	SF
907-824-PP004	Bridge Repair, Remove and Replace Span No. 3	/	LS
907-824-PP004	Bridge Repair, Cleaning	/	LS

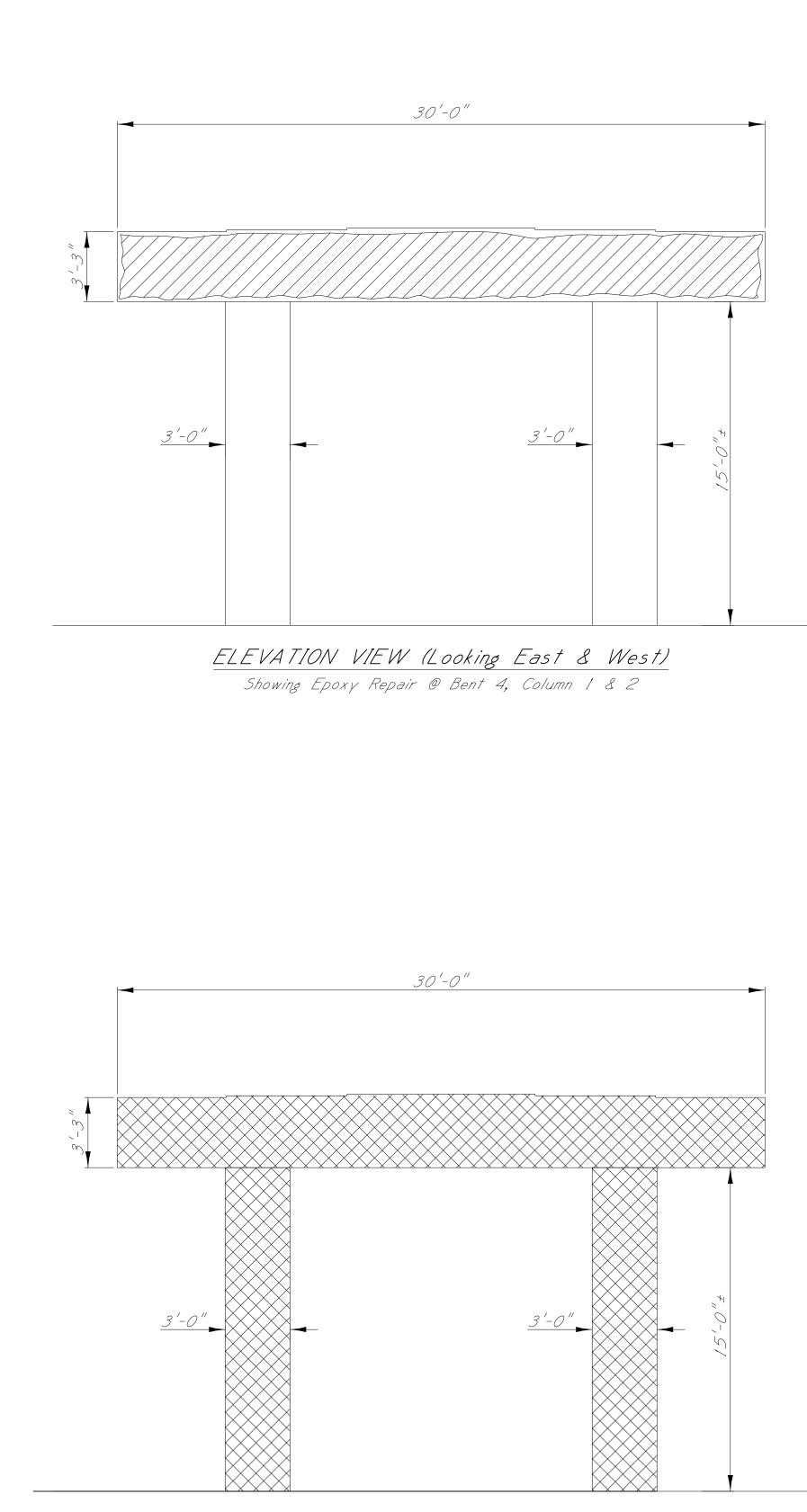
CONTAINMENT NOTES:

Prior to construction, the Contractor shall submit a temporary containment plan for cleaning the designated repair area to the Director of Structures, State Bridge Engineer through the Project Engineer for review and approval. All debris and non-potable water shall be collected and disposed of properly.

DEMOLITION NOTE:

Prior to Construction, the Contractor shall provide a Demolition Plan to the Director of Structures, State Bridge Engineer through the Project Engineer for review and approval.

		STATE	PROJECT NO.
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rawinds No. PS-5&	ete Beam Span 1-12" PB~4 &		
aring PLs. On Sheet	No. 84. 201		
	1214		
	525 57a		
	Dr.		
	in the second seco		
0.2:1 SI			
59'-32			
	(5)		
	(5)		
EPOXY BINDER NO	<u>) E:</u> ncrete, all concrete surfaces that w	uill ha in cant:	act with the
new concrete shall be po concrete to old.	ainted with an approved epoxy binder	r designed to	bond new
SPECIAL PROVISIO	$\mathcal{D} \Lambda / \mathbf{a}$		
	<u>, 1v.</u> tructures 907-804		
	MISSISSIPPI DEPARTM		
	+++UNDERPASS AT	SIA.	1 / (0+10.85
	BRIDGE RE	IPAIR L	AYOUT
		NOTES	$\begin{bmatrix} 2 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\$
	ESTIMATE FMS: 307159/301000	J QUAN	IIIES
OF TRANSPORTATION OF TRANSPORTATION	FMS: 307159 / 301000		
	COUNTY: JASPER	- CMF9-21/M1	WORKING NUMBER
	PROJECT NUMBER: MRP-	CKERPAUL DEES	(9) 1 OF 5 SHEET NUMBER
JUSSISSIPPI	DETAILER <u>SHANE WRIGHT</u> ISSU	J <u>E DATE 5/12/2020</u> GINEER - JUSTIN WALKER, NGINEER - SCOTT WESTER	
		COULT WESTER	



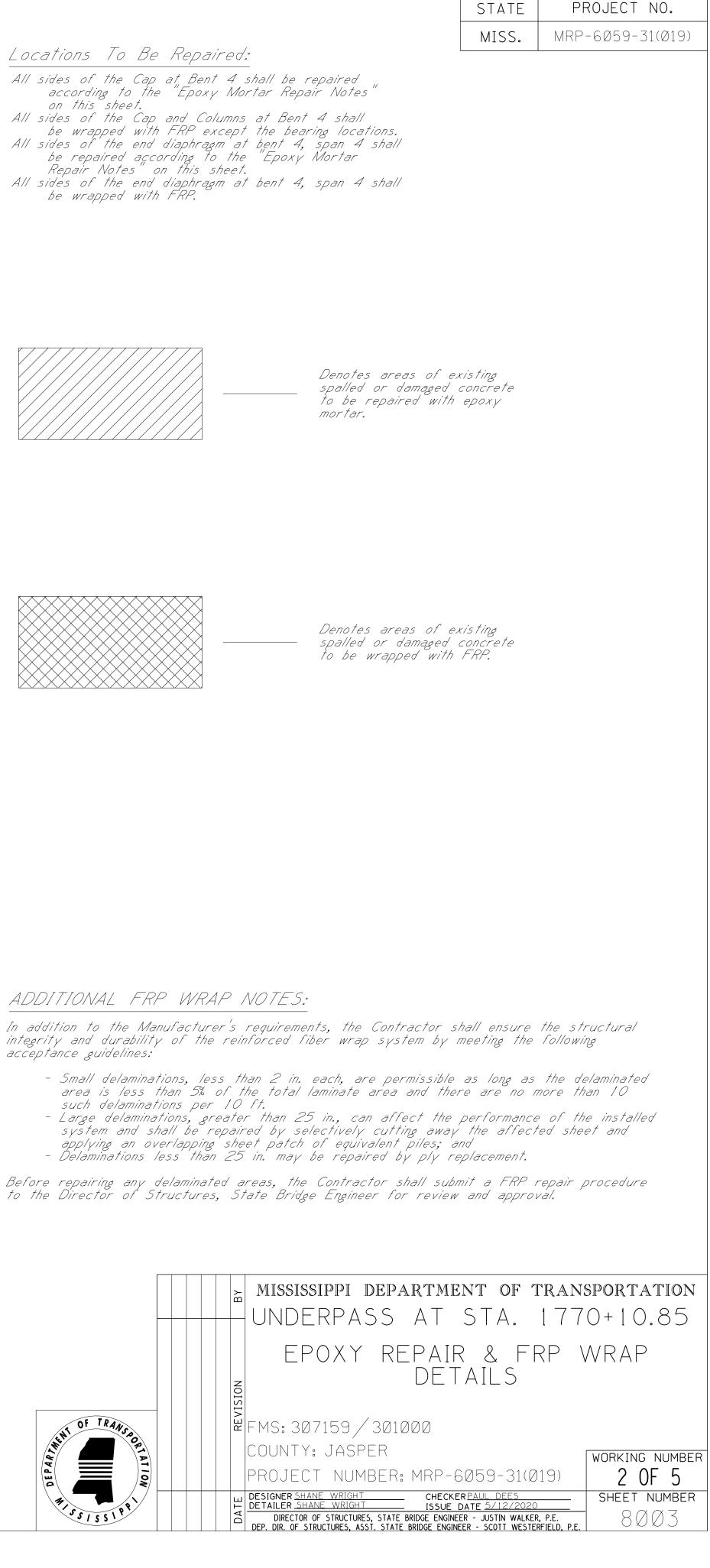
ELEVATION VIEW (Looking East & West) Showing FRP Wrap @ Bent 4, Column 1 & 2

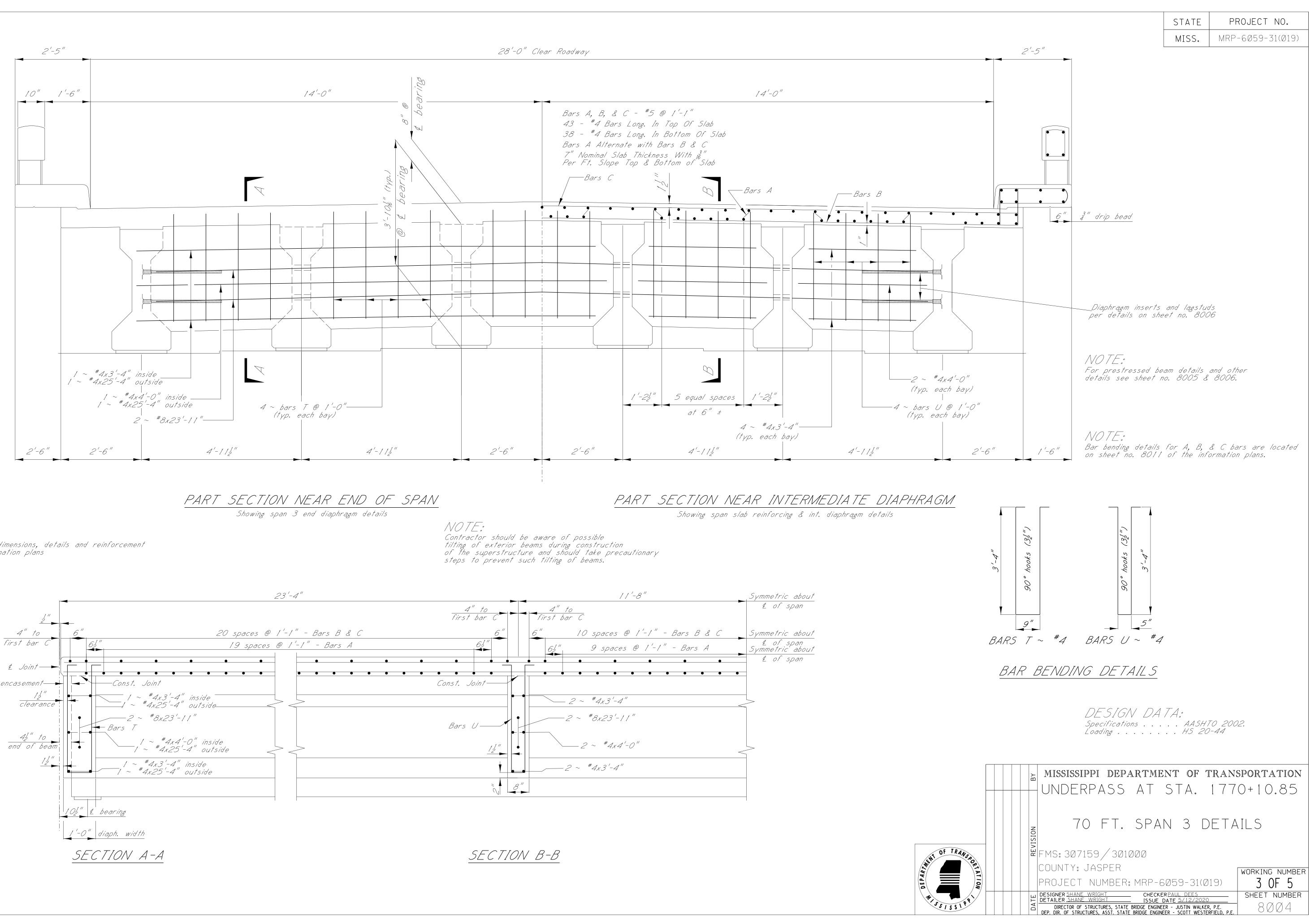
Epoxy Mortar Repair Notes:

- I. Repair all unsound concrete and spalled areas listed on this page along with any additional locations directed by the Project Engineer.
- 2. Prior to construction, all existing reinforcement shall be located. Care shall be exercised to protect the existing reinforcement from damage. Any reinforcement damaged during the concrete removal shall be repaired by the Contractor by a method approved by the Director of Structures, State Bridge Engineer at no additional cost to the State.
- 3. After removal of the damaged or unsound concrete, the repair area shall be squared up by saw cut around the perimeter of repair area to prevent feather edges. All residual concrete left in the repair area shall be removed. All pact rust that has developed around or on reinforcement shall be blasted clean. For the removal of the damaged or unsound concrete, the Contractor is limited to a 30 pound hammer of smaller.
- 4. All areas of the bridge repaired with epoxy mortar shall be restored to the original dimensions and details as shown in the information plans, unless noted otherwise.
- 5. Materials:
 - a. Epoxy Resin: Resin shall be selected from the MDOT approved materials list. b. Silica Sand: Silica sand material shall be bagged general purpose blast cleaning sand.
- c. Epoxy Mortar Mix: Epoxy mortar mix shall consist of part liquid epoxy and part clean, dry sand mixed in the ratio recommended by the manufacturer. 6. Application:
 - a. A representative of the epoxy manufacturer must be present for sufficient time to ensure the Contractor is properly schooled in the use of the epoxy materials.
 - b. Prior to placement of the mortar mix the prepared surface shall be lightly primed with neat epoxy.
 - c. Curing time shall be in accordance with manufacturer's recommendations.
- 7. The cost of saw cutting, removing spalled or damaged concrete, cleaning exposed reinforcing steel, patching material, labor and any miscellaneous materials necessary to complete the repairs as shown shall be paid for on a square feet basis as Bridge Repair, Epoxy Repair. This item shall be bid such that this item may be increased, decreased, or eliminated as directed by the Project Engineer.

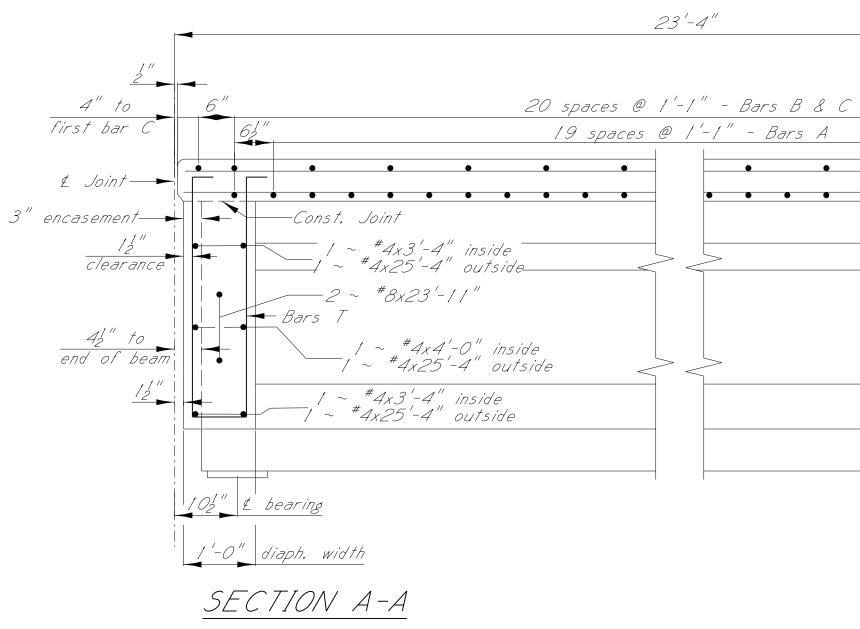
FRP WRAP NOTES:

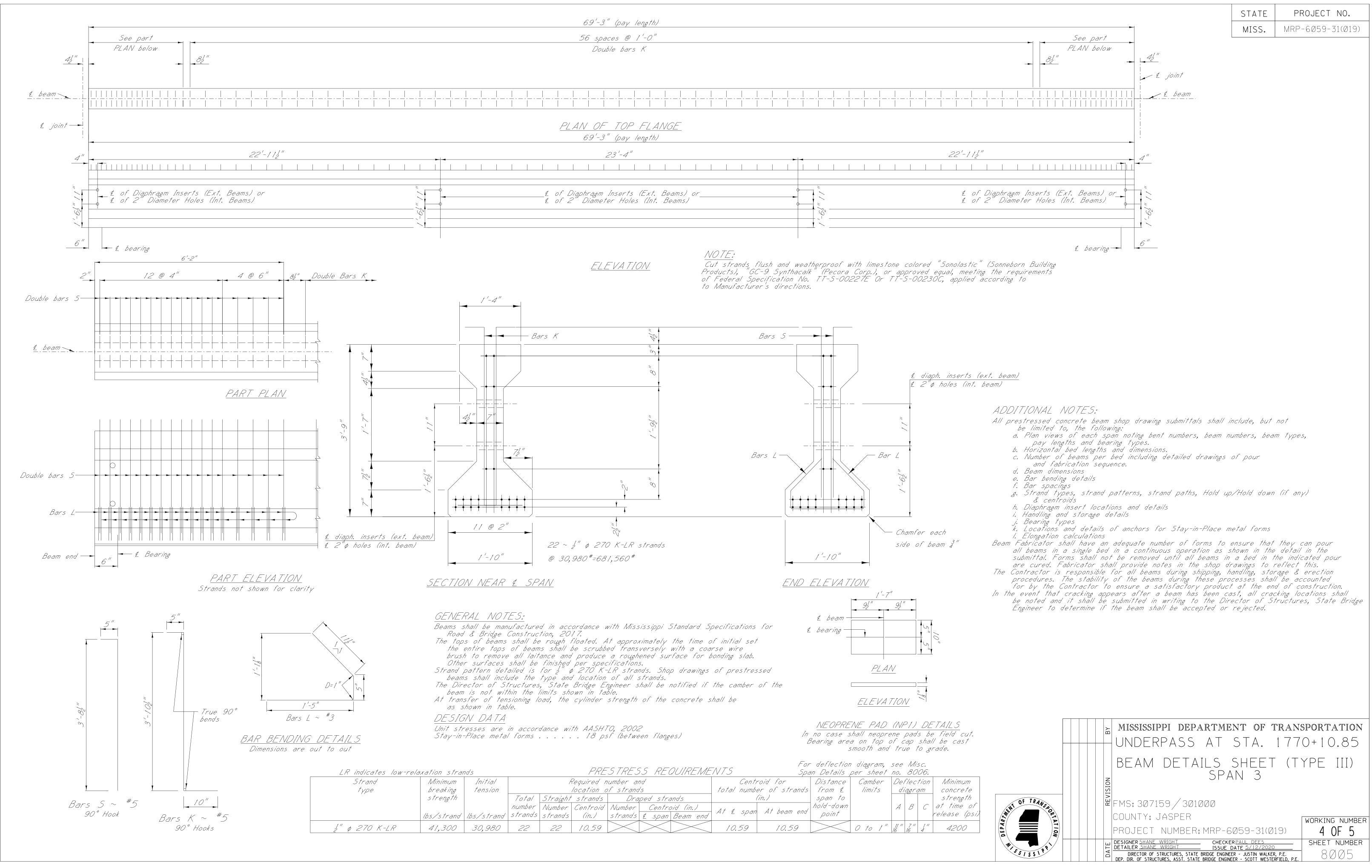
- 1. FRP wrap shall be one of the following products or an approved equal and shall be applied according to the manufacturer's recommendations:
 - a. FRP Wrap as manufactured by Fyte Co. LLC,
 - www.aegion.com/about/our-brands/fyfe b. "FRP Wrap" as manufactured by BASF Building Systems LLC
 - www.master-builders-solutions.basf.us
 - c. "FRP Wrap" as manufactured by QuakeWrap Inc.
- www.quakewrap.com 2. The Contractor shall furnish all submittals indicating the materials, tools, equipment, transportation, necessary storage, labor, installation plan and supervision required for the application of the composite or polymer system to the Director of Structures, State Bridge Engineer prior to construction.
- 3. Products shall be stored according the manufacturer's requirements and shall avoid contact with moisture, dust and chemical exposure.
- 4. All FRP composite systems shall be proprietary systems consisting of all associated fiber reinforcement and polymer adhesives/resins. FRP composites consisting of fiber
- reinforcement and polymers provided by more than one manufacturer are not allowed. 5. The FRP composite system shall utilize carbon fiber reinforcement as the primary fiber
- material (primary 'structural component).
- 6. The FRP system shall be top coated with a coating approved by the FRP system supplier. The coating color shall be selected by the Project Engineer.
- 7. FRP wraps shall not be installed when the ambient temperature is below 40°F or above
 - 130°F. In cold conditions, auxiliary heat may be applied to raise the ambient temperature
 - to a suitable level. Clean heat sources shall be utilized for this purpose (e.g., electric or propane) that do not contaminate the substrate with carbonation.
- 8. FRP wraps shall not be installed when surface moisture is present on the substrate or when rainfall or condensation is anticipated in the work areas. If water leakage exists through cracks or concrete joints, water flow shall be stopped prior to FRP installation.
- 9. Resins (including primers and filler's) shall be mixed according to the FRP system manufacturer's installation instructions. All resin components shall be at a proper temperature and mixed in the manufacturer's prescribed mix ratio until there is a uniform and complete mixing of components. Resin components are often contrasting colors, so full mixing is achieved when color streaks are eliminated. Resins should be mixed for the Manufacturer's prescribed mixing time and visually inspected for uniformity of color.
- 10. A representative of the FRP wrap manufacturer must be present for sufficient time to assure that the Contractor is properly schooled in the installation of FRP wrap. 11. Prior to installation of FRP' wraps, the Contractor shall repair concrete spall areas in accordance with
- concrete patching details and notes shown on this sheet.
- 12. All labor, materials, and surface preparation associated with the installation of FRP wraps shall be included in pay item 907-824-PP008, Bridge Repair, FRP Wrap. 13. The fibrous reinforcement system shall have a minimum tensile force of 2.1 kips/in. in the direction
- of the shear reinforcement. 14. Prior to wrapping the bent cap and column, the bent cap end shall be wrapped parallel to the bent.
- The direction of the fiber wrap shall be in the direction of the shear reinforcement (vertical for bent caps; horizontal for column).



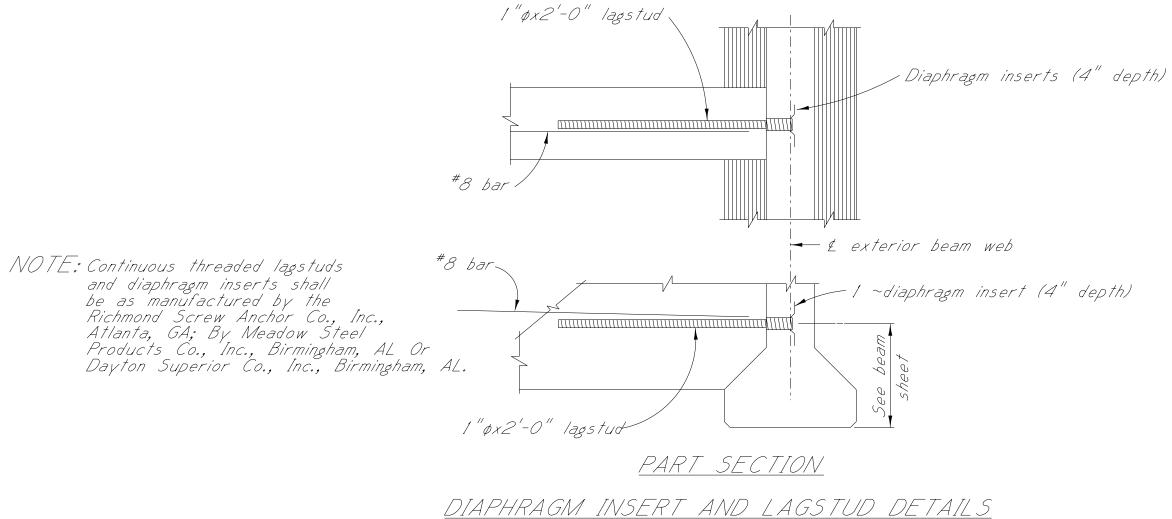


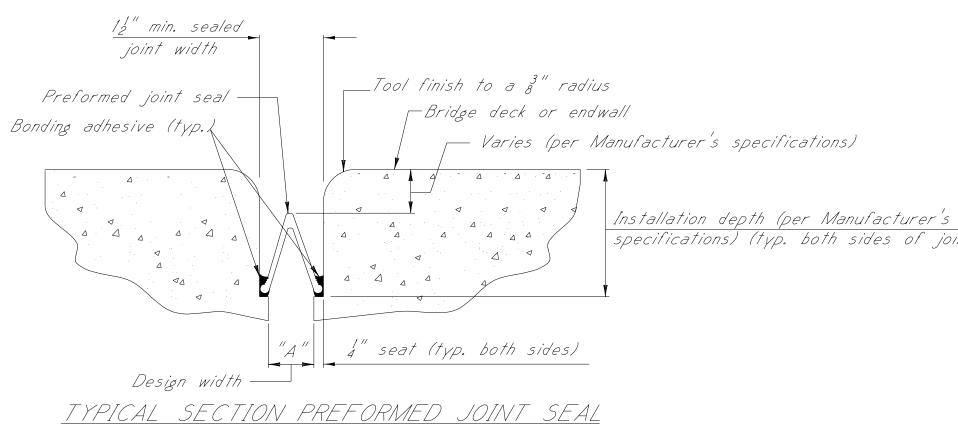
NO TE: For all other concrete dimensions, details and reinforcement details see in the information plans





, S			PRE	STRES	S REC	QUIRE ME	NIS			Spa	n Details ,	per sheet	ПО.	80	06.	
Initial		Required number and					Centr	oid fo	nr l	Distance	Camber	Dei	fleci	tion	Minimum	
tension		location of strands			total	numbe	or of	strands	from £	limits	di	agre	э <i>т</i>	concrete		
	Total	Straight	strands	Dra	ped stra	ands		(1	in.)		span to					strength
	number	Number	Centroid	Number	Centro	pid (in.)	1 + <i>d</i>		1 + L	eam end	hold-down		A	B	C	at time of
bs/strand	strands	strands	(in.)	strands	£ span	Beam end	AIE	span	AT DO	eann end	point					release (psi)
30,980	22	22	10.59		\geq	\ge	10.	59	1.	0.59		0 to 1"	'' 6	7 '' 16	'' 4	4200





- NOTES: 1. Joint installation and sealing on newly constructed bridge decks shall not be paid for directly and shall be considered an absorbed item of work. 2. The preformed joint seal shall be one of the following, installed according to the Manufacturer's specifications:
 - A. Silicoflex Joint Sealing System, manufactured by R.J. Watson, Inc www.rjwatson.com
 - B. Wabo SPS Joint System manufactured by Watson Bowman Acme Corporation www.wbacorp.com
 - C. Silspec SSS Silicone Strip Seal manufactured by SSI Commercial & Highway Construction Materials www.ssicm.com
 - 3. For estimating purposes, The RJ Watson Silicoflex Joint Sealing System was selected. However, should another supplier be chosen, it is the Contractor's responsibility to ensure that the Manufacturer's recommendations are followed for joint preparation, installation depths and widths, adhesive setting times, and any other variances between the specifications provided by the Manufacturers. A Manufacturer representative shall be present at the time joint sealing begins to ensure that the Contractor is properly schooled in installation of the joint material. All open joints shall be sealed at their design widths, dimension "A", as indicated on the end bent and span details.
 - 4. Dimension "A," is defined as the design width of the joint opening, which does not account for the 4" seat required on both sides of the joint. Preformed Joint Seal, Type I, shall be used for design widths less than 2". Preformed Joint Seal, Type II, shall be used for design widths greater than or equal to 2", with the maximum design width being 22". In cases where design widths are greater that 22", another type of expansion material shall be required as directed by the Director of Structures, State Bridge Engineer.
 - 5. Joints in newly constructed bridge decks shall be protected from damage until accepted for maintenance by the State. Damaged joints shall be repaired at no additional cost to the State.

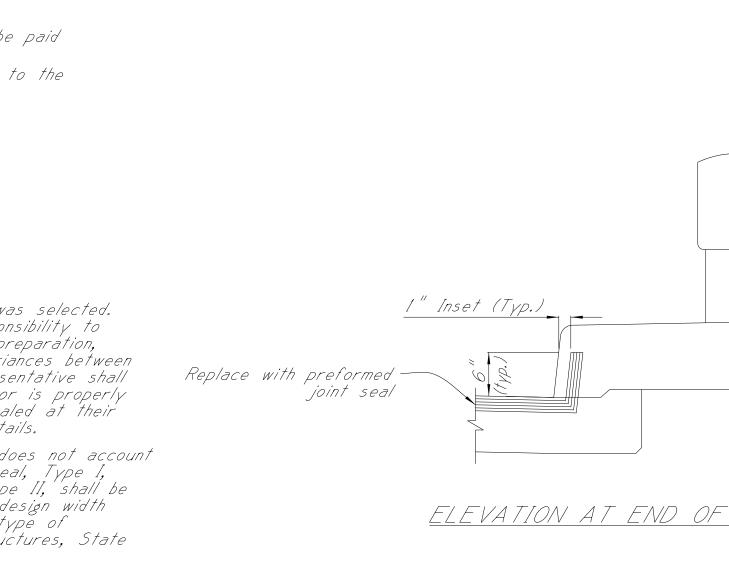
- 1 ~ diaphragm insert (4" depth)

	EOPRENE F CKNESS Tr				
PAD	PAD	COMPRESSED			
MARK	THICKNESS	PAD THICKNESS			
NP 1	1 3 "	/ <i>8</i> ″			

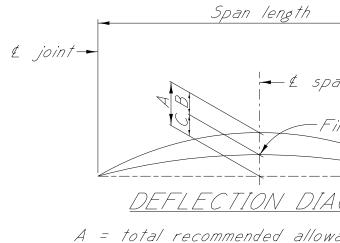
specifications) (typ. both sides of joint).

PREFORMED JOINT SEAL NOTE:

A preformed joint seal shall be placed at bent 3 and bent 4 according to the preformed joint seal detail on this sheet. All items of work associated with the preformed joint seal will be considered an absorbed item.



1'-6 0.015 ft. per ft. slope Perm <u>CROWN DETAIL</u>



B = estimated deflection due

C = A-B = net initial camber

includes an allowance or

NOTE: For values of A, B & C, see

NOTE: The Girder Deflection Diagrams prepared and intended for des 'only. Actual bridge girder dei the deflection diagrams shown Contractor's responsibility to meet the requirements of the including, but not limited to, t. deck smoothness. Prior to for Contractor shall submit three BRIDGE SUPERSTRUCTURE CON to the Director of Structures, review, through The Project É include all calculations, assump the Contractor to determine b. form grade elevations. This erection and construction proce construction means and methodo and shall consider effects inclu construction phasing, pouring sc construction loading, and shall i details of temporary girder bra girder stability and to counter After girder erection and prior Contractor shall submit deck calculations for each girder. include a comparison of the e profiles versus the plan deck 'each girder plus the anticipate to applied permanent dead load of the deck thickness verificat proposed remediation measures aréas shall be submitted to th Bridge Engineer for review, thr The BRIDGE SUPERSTRUCTURE deck thickness verification calc and stamped by a Mississippi Engineer.

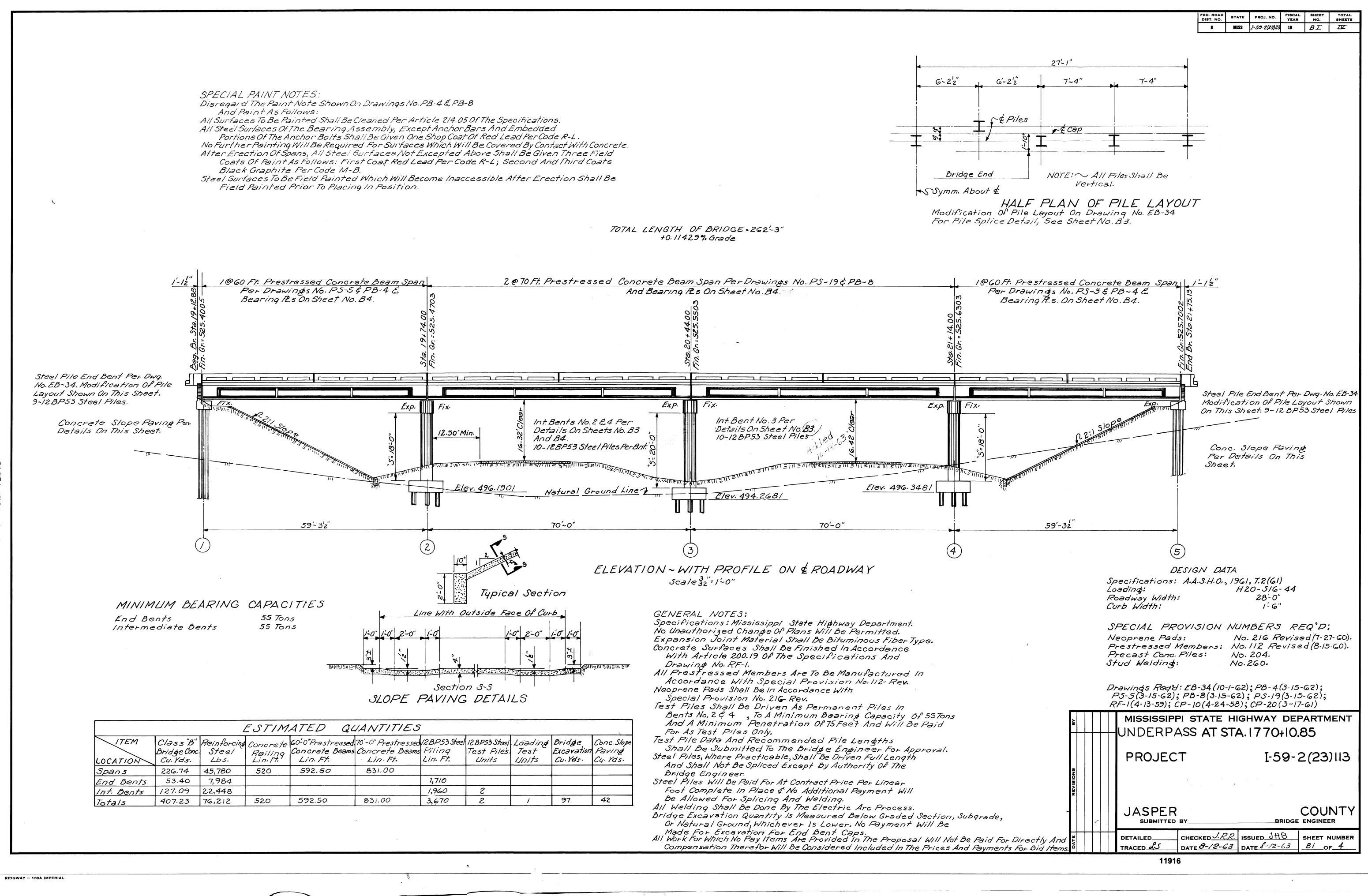
GENERAL NOTES:

All concrete in the span shall be clas Chamfer all edges 4", unless otherwis See Layout sheet for finishing of con Placing dimensions for reinforcing stee are clear distances.

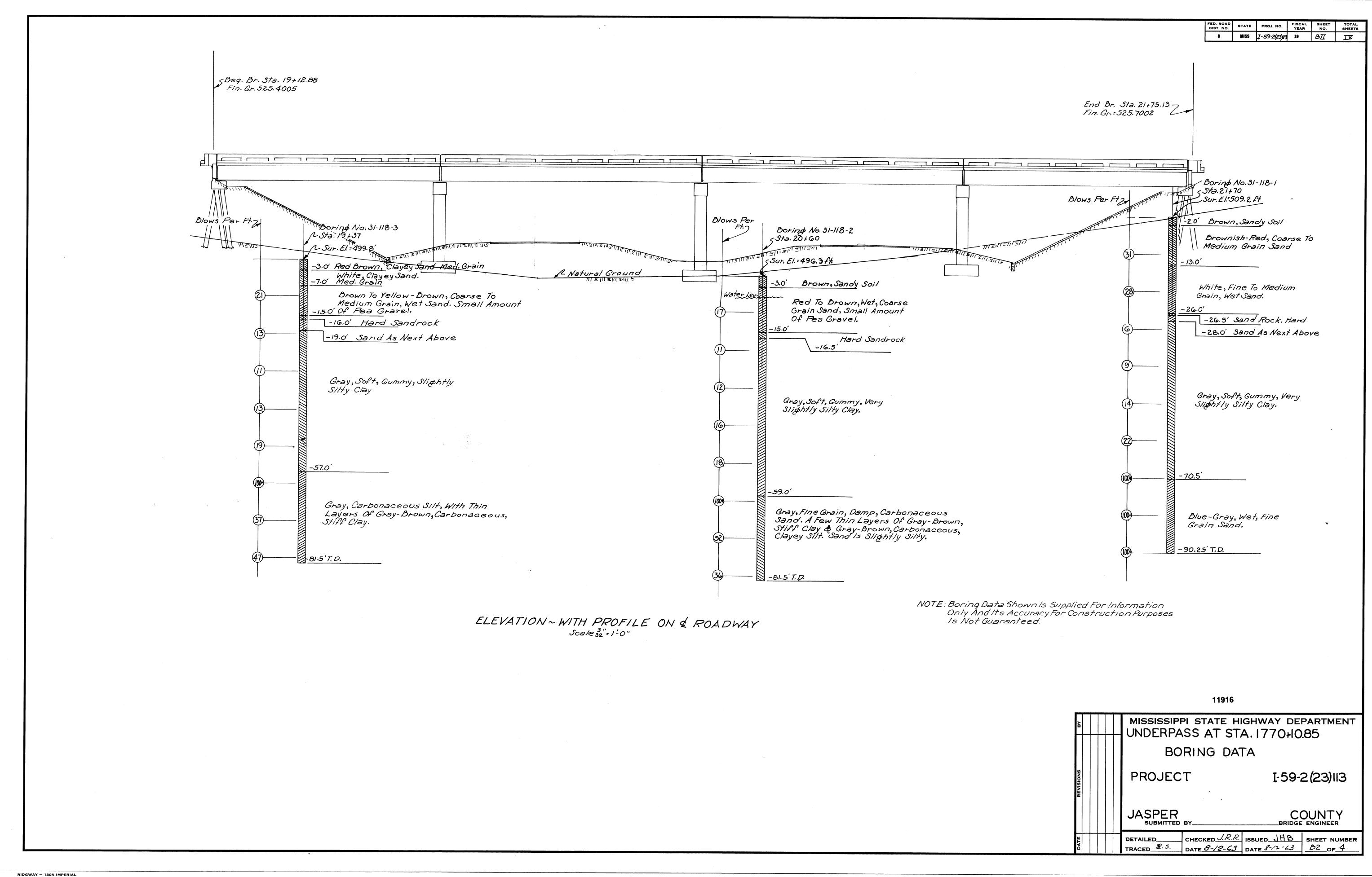
To determine the dimension from finis assumption is made that the comp neoprene pad is as shown in table, camber of the beams will be within Beam Detail sheets. The Director Bridge Engineer shall be notified if within these limits.

ELEVATION AT END OF SPAN

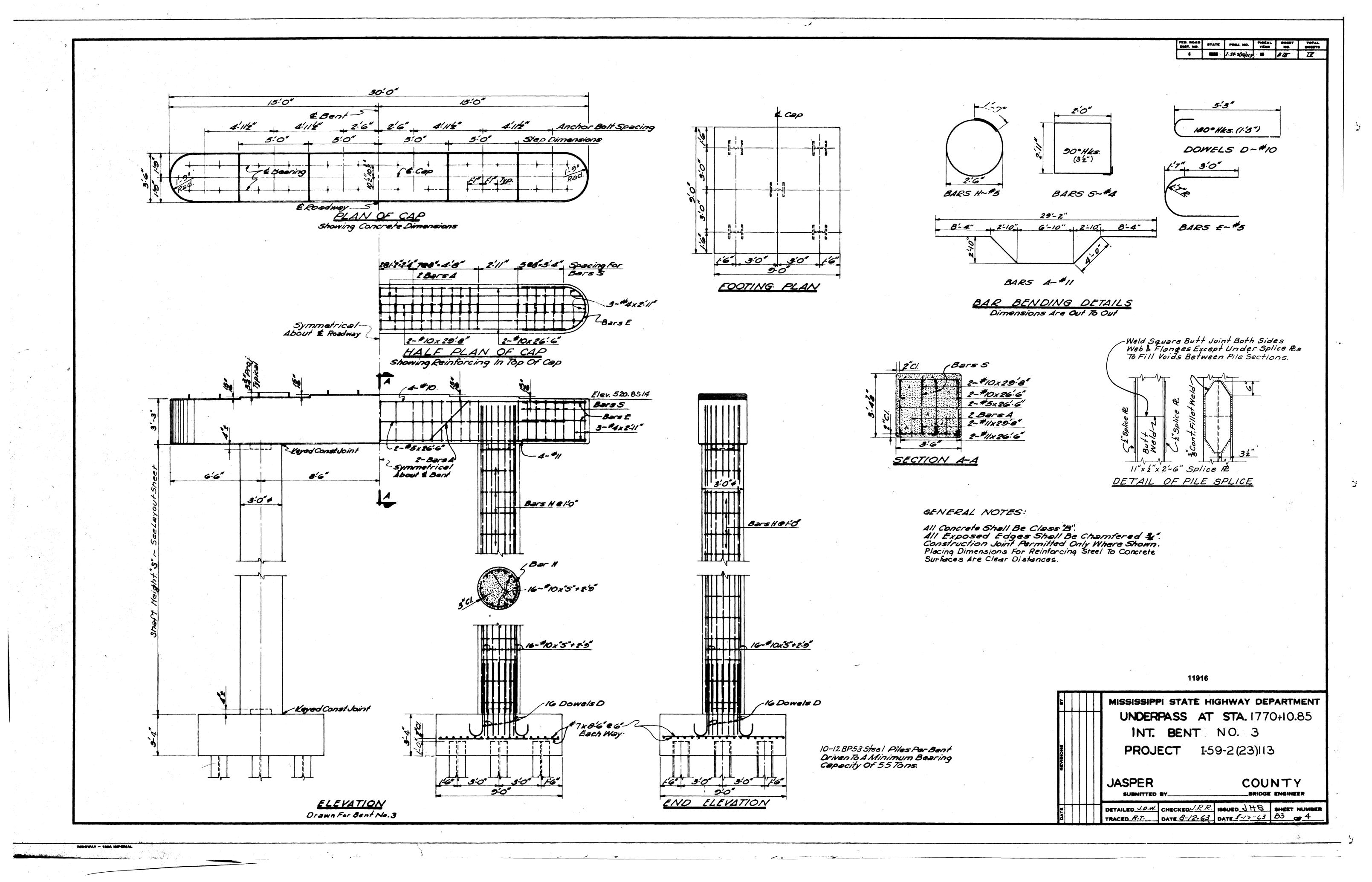
			STATE	PROJECT NO.
6″.			MISS.	MRP-6059-31(019)
grade				
missible rou	unding			
<u>Z 5</u>				
>	I			
-	🗕 🖞 joint			
pan Finish ridin				
	e surface to this line. Neoretical finish grade			
<u>AGRAM</u> wance for d	deflection			
ie to dead	deflection. load of slab & rail. surface, which			
e Beam Det	tail sheets.			
sign and es effections n o in these p construct o plans and the required formwork co (3) copies ONS TRUCTION (3) copies (3) copies (3) copies (3) copies (3) copies (3) copies (3) copies (3) copies (4) constant of cologies us (5) cologies	Bridge Engineer for This submittal shall parameters used by er deflections and shall also include an t addresses the sed by the Contractor not limited to, applied permanent and alculations and tems used to ensure ects of girder tilt. construction, the			
lass"AA" wise noted. concrete su teel to cond	urfaces. perete surfaces			
pressed thi le, and that hin the limit - of Struct	to cap, the pickness of the of the original ts shown on the tures, State pbers are not			
DEPARIM	F TRANSROPTATION	- UNDERPASS AT MISC. SPAN FMS: 307159 / 301000 COUNTY: JASPER PROJECT NUMBER: MRP-6 DESIGNER SHANE WRIGHT CHECKE	STA. J 3 DE 0059-31(0 <u>ERPAUL DEES</u> DATE <u>5/12/2020</u> ER - JUSTIN WALKER	1770+10.85 $TAILS$ $WORKING NUMBER$ $19) 50F5$ $SHEET NUMBER$ 8006



FOR INFORMATION ONLY: PROJECT NO. MRP-6059-31(019)

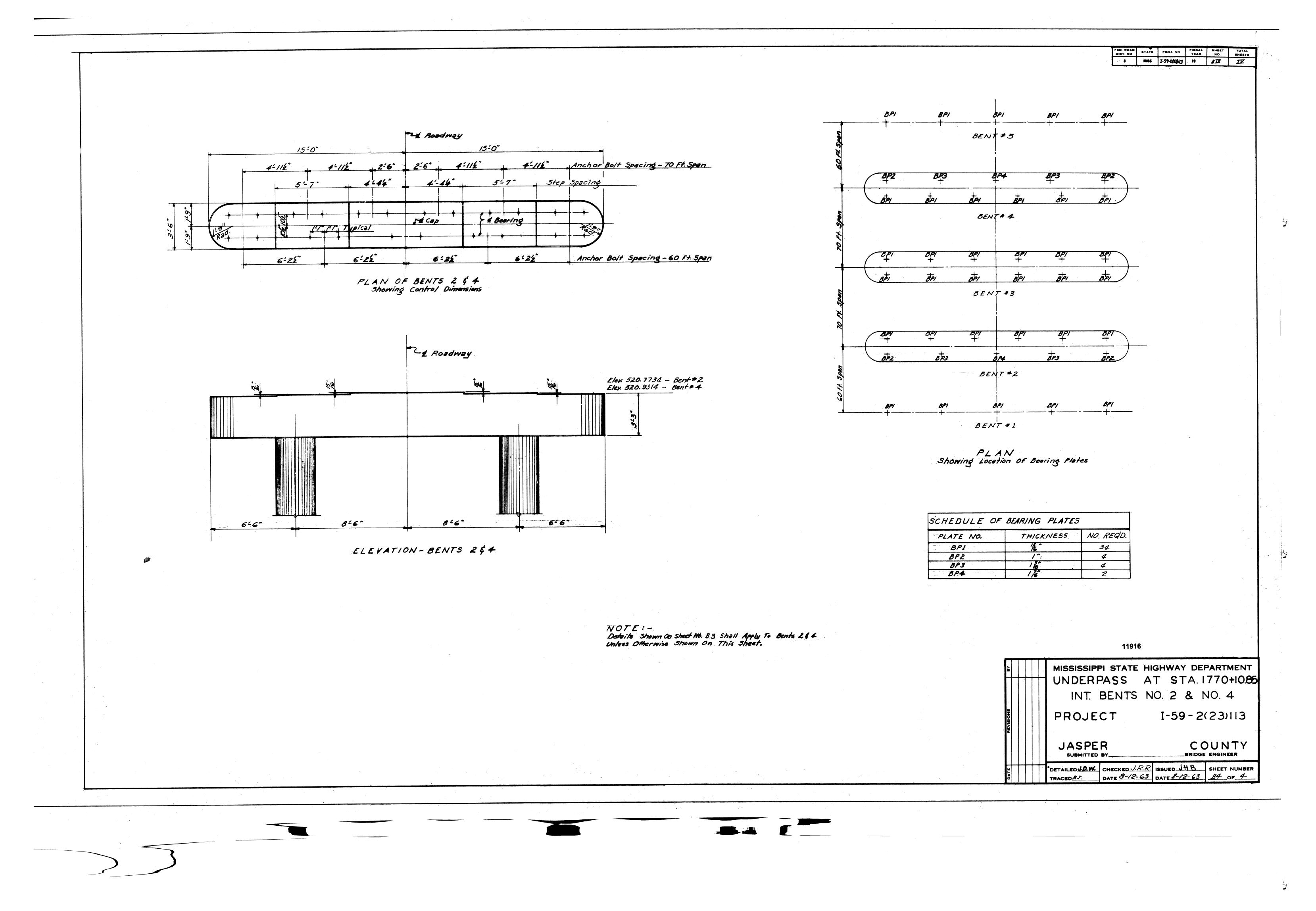


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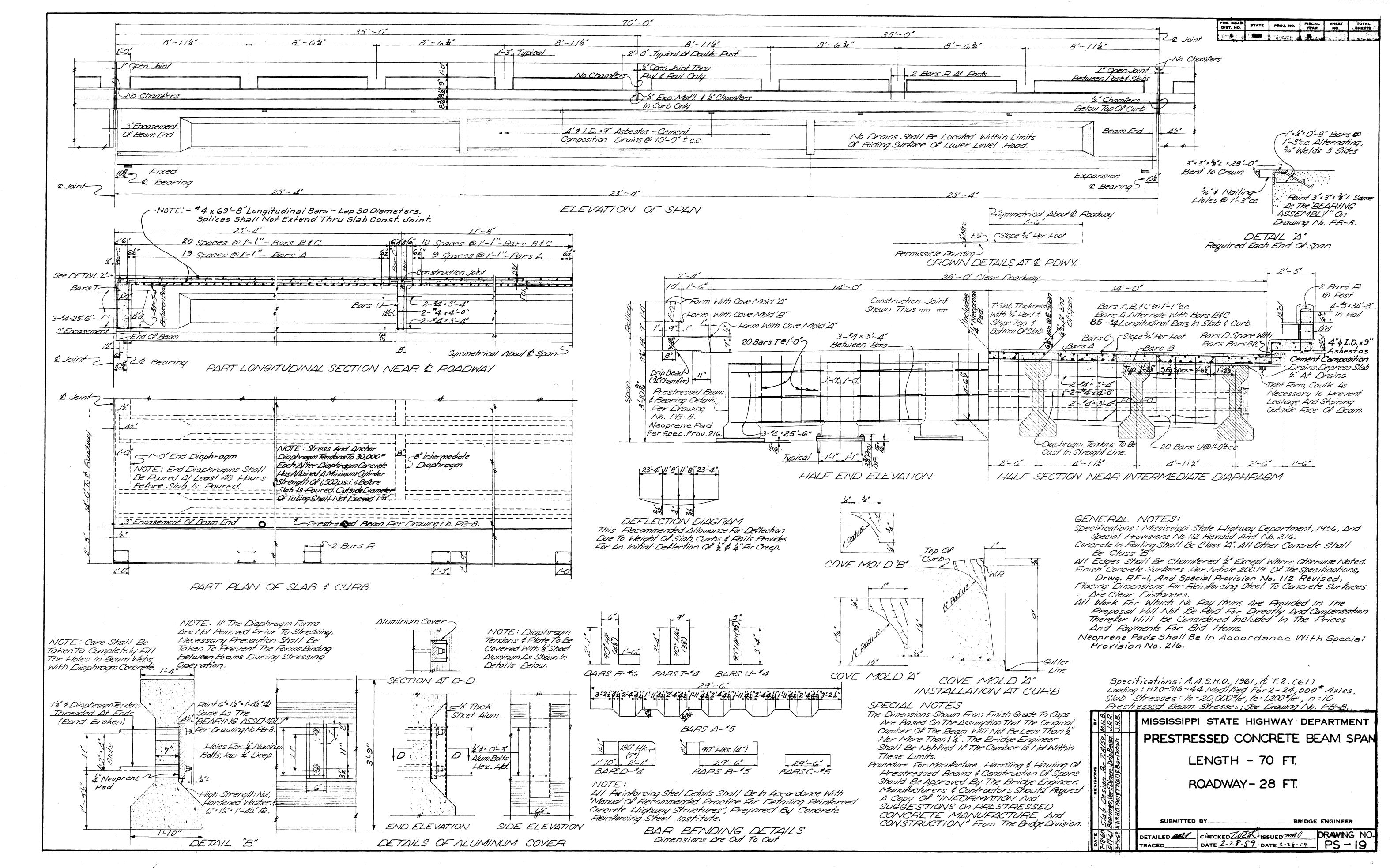
FOR INFORMATION ONLY: PROJECT NO. MRP-6059-31(019)

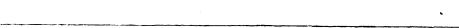
REVISED SHEET NO: 8009

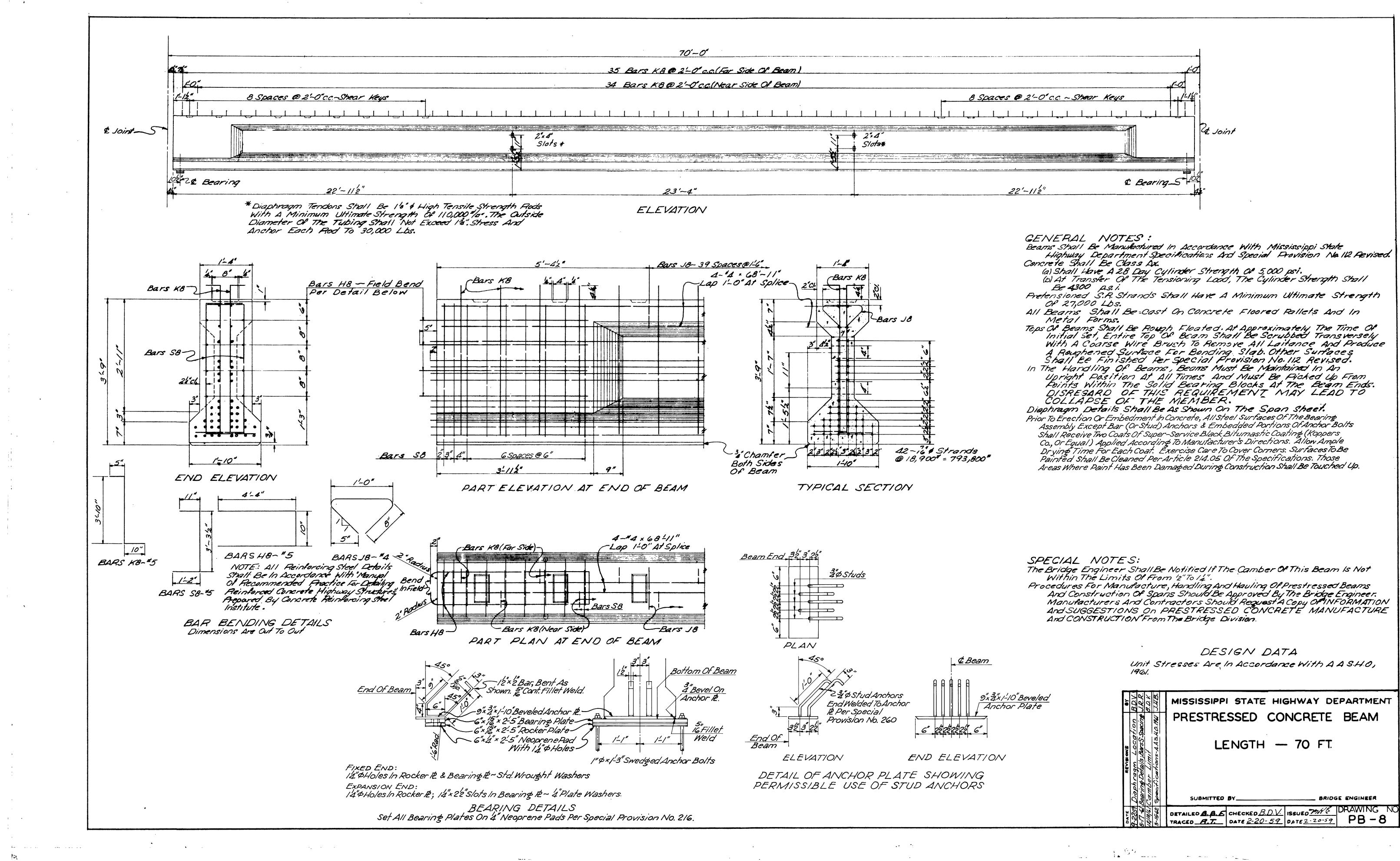


FOR INFORMATION ONLY: PROJECT NO. MRP-6059-31(019)

REVISED SHEET NO: 8010







· -

FOR INFORMATION ONLY: PROJECT NO. MRP-6059-31(019)

ما الا الله الله المراجع المراجع

REVISED SHEET NO: 8012

THIS	
PERMANENT SIGNS	EGIN ITH IEET
ITS COMPONENTS LIGHTING (RESERVED) ROADWAY STANDARD DWGS BOX CULVERT STD. DRAWINGS (LRFD)	- 100 -200 -300 - 400 - 500 - 600
BOX CULVERT STD. DRAWINGS (STD. SPEC. BRIDGE CROSS SECTIONS	- 800

BRIDGE STRUCTURES REQ'D.

BOX BRIDGES REO'D.





WORK AREA -

27 34-

CONVENTIONAL SYMBOLS

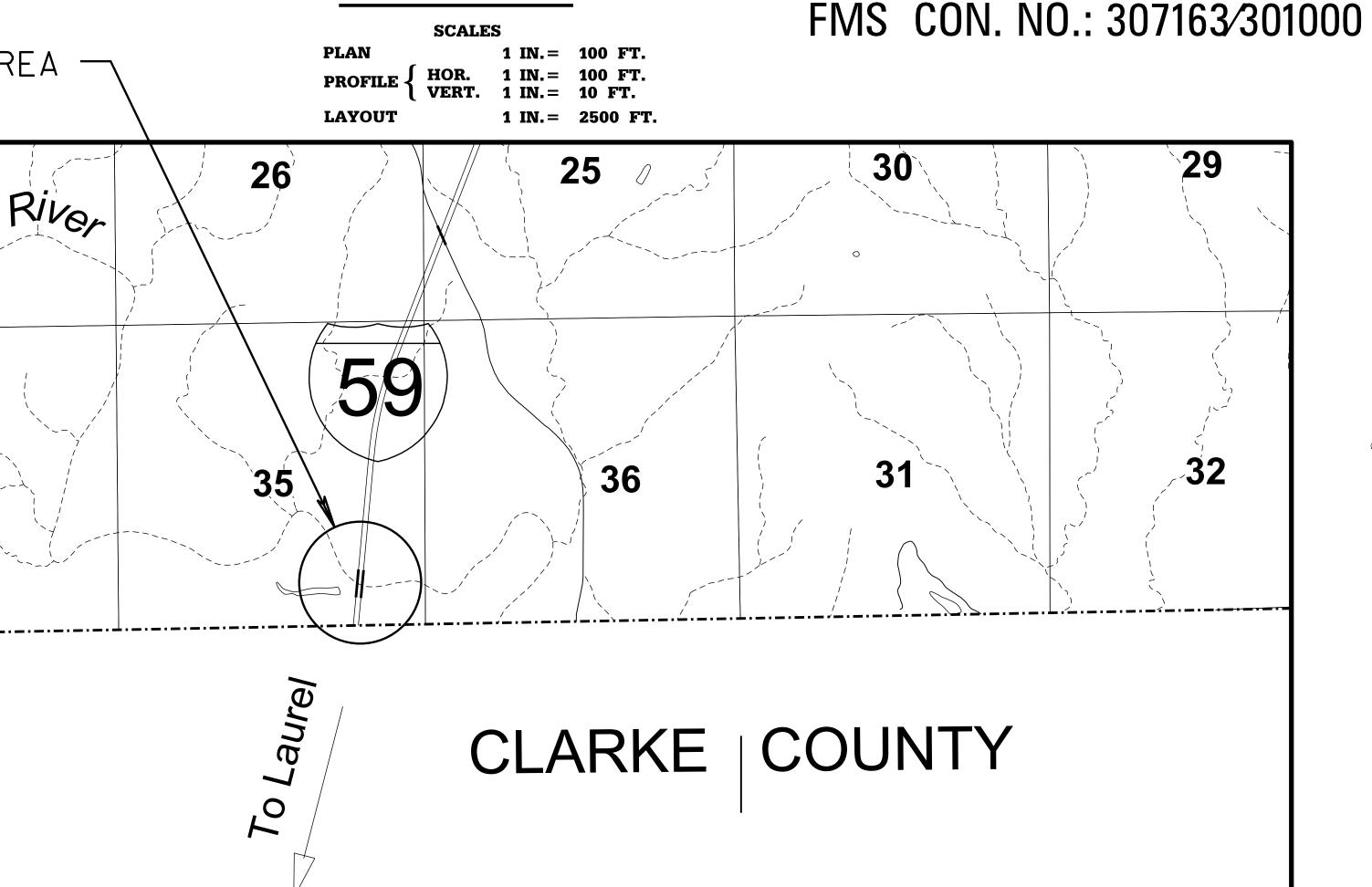
LENGTH OF ROADWAY LENGTH OF BRIDGES LENGTH OF PROJECT (NET) LENGTH OF EXCEPTIONS LENGTH OF PROJECT (GROSS)

STATE OF MISSISSIPPI

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED **STATE HIGHWAY STATE PROJECT NO.: MRP-5059-38(230)**

I-59 BRIDGE REPAIR Ø.2 MI. NORTH OF CLARKE CO. LINE LAUDERDALE COUNTY



EQUATIONS

EXCEPTIONS

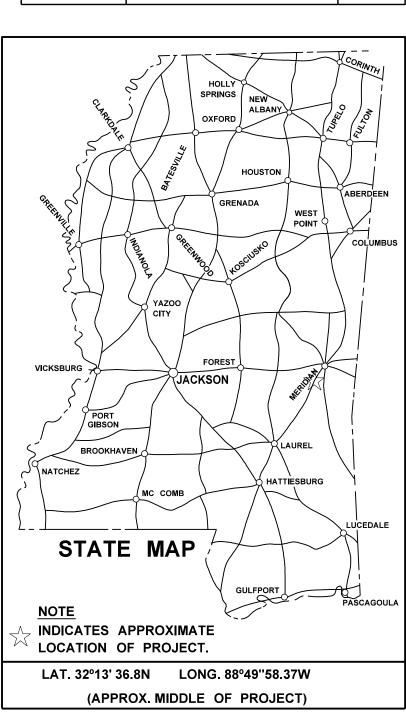
LENGTH DATA

FT.	MI.
FT.	MI.
	MI.
FT.	MI.
	MI.

P.E. MRP-5059-38(230)

307163/101000 SHEET

PROJECT NUMBER STATE NO. MRP-5059-38(230) MISSISSIPP



DESIGN C MPH = V (SP		N)		
ADT () =: AD DHV =: D =				
PERMITS ACQUIF	RED BY N	/IDOT		
WETLANDS AND W	aters permi	TS		
	WATERS	WETLANDS		
NATIONWIDE #14	Ν	Ν		
NATIONWIDE (OTHER)*				
GENERAL*	Ν	Ν		
INDIVIDUAL (404)*	Ν	Ν		
STORMWATER P	ERMIT	Ν		
Y REQUIRED, CNOI SUBN (DISTURBED ARE	$\begin{array}{l} \text{MITTED} \text{BY} \text{ME} \\ \text{A} = 5 \text{ACR} \\ \text{ES} \end{array}$	DOT		
S REQUIRED, SCNOI TO CONTRACTOR (1 T	BE SUBMITTEI 0 4.99 ACRES) BY		
N no stormwater permi	t required (<1 ACRE)		
APPROVED BY:				

_	
	P S & E DATE: 5/12/20
BY	APPROVED:
REVISIONS	DEPUTY EXECUTIVE DIRECTOR / CHIEF ENGINEER
۳.	
DATE	MISSISSIPPI DEPARTMENT OF TRANSPORTATION

LAUDERDALE COUNTY

1st O.REV.

DESCRIPTION OF SHEET

TITLE SHEET

DETAILED INDEX AND GENERAL NOTES SHEETS (2)

DETAILED INDEX GENERAL NOTES

SUMMARY OF QUANTITY SHEETS (1)

SUMMARY OF QUANTITIES

ESTIMATED QUANTITY SHEETS (1)

ESTIMATED QUANTITIES FOR TRAFFIC CONTROL SIGNS

SPECIAL DESIGN SHEETS (3)

CONSTRUCTION SIGNING @ CHUNKY RIVER

TRAFFIC CONTROL PLAN - I-59 OVER CHUNKY RIVER TRAFFIC CONTROL PLAN - I-59 OVER CHUNKY RIVER

STANDARD DRAWING SHEETS (9)

PAVEMENT MARKING DETAILS FOR 2-LANE & 4-LANE

CONCRETE MEDIAN BARRIER (PRECAST) (32")

TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT OF 65 OR 70 MPH (INTERSTATES AND OTHYER 4-LANE: DIVIDED HIGHWAYS) (MEDIAN LANE OR OUTSIDE LANE CLOSURE) (EXTENDED PERIOD)

TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT OF 65 OR 70 MPH (INTERSTATES AND OTHER 4-LANE DIVIDED HIGHWAYS) (MEDIAN LANE OR OUTSIDE LANE CLOSURE) (WORK DAY ONLY)

HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS

TRAFFIC CONTROL PLAN MOBILE OPERATIONS MULTILANE ROADS AND TWO-LANE ROADS

TEMPORARY STRIPING FOR TRAFFIC CONTROL 2-LANE AND 4-LANE DIVIDED HIGHWAYS

LOCATION OF R16-3 SIGNS (SPEEDING FINES DOUBLED)

TRAFFIC CONTROL DETAILS DRUM PLACEMENT AND SHOULDER CLOSURE CLOSURE

WKG. NO.	SH. NO.
	1
DI-1 GN-1	2 3
SQ-1	4
TCP-Q	5
	6
DCS-1	
TC-1 TC-2	7 8
PM-1	6051
CMB-3	6226
TCP-4	6354
TCP-5	6355
 TCP-8	6358
TCP-9	6359
TCP-13	6363
 TCP-15	6365
TCP-16	6366

	FM	S CON: 307163/301000
	STATE	PROJECT NO.
	MISS.	MRP-5059-38(230)
DESCRIPTION OF SHEET	WKG NO.	SH. <u>NO.</u>
WALDON		
PS & E PLANS-DATE: 5/12/20	NT OF T	RANSPORTATION
FMS_CON. # 307163/301000		
DATE SHEET NO. BY 5/29/204 GTW DATE SHEET NO. BY 5/29/204 GTW DETAILED I	NUEX	OF TRANSPORTATION

PS & E PLANS-DATE: 5/12/20					
FMS CO	FMS CON. # 307163/301000				
	REVISIONS				
DATE	DATE SHEET NO. BY				
5/29/204 GTW					

	REVISION	DETAILED INDEX	OF TRANSPORTATION WILLIAM BROWN
		PROJ.NO.: MRP-5059-38(230) COUNTY: LAUDERDALE	WORKING NUMBER
	DATE	FILE NAME: <u>INDEX.dgn</u> design teamCheckedDate	SHEET NUMBER

1	THE LOCATION AND SPACING OF SIGNS, SHOWN ON THE TRAFFIC CONTROL PLANS, ARE A AS NECESSARY TO FIT FIELD CONDITIONS.
(2)	
	ALL TRAFFIC CONTROL DEVICES ON THIS PROJECT SHALL COMPLY WITH PART VI OF THE
3	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING STRUCTURES SU
	INLETS, APRONS, AND BRIDGES FROM DAMAGE WHICH MIGHT OCCUR DURING CONSTRUC OR REPAIR, AS DIRECTED BY THE ENGINEER, ANY STRUCTURES DAMAGED DURING THE L
	WILL BE MADE FOR REPLACEMENT OR REPAIR OF DAMAGED ITEMS.
	FLUORESCENT ORANGE SHEETING SHALL BE USED ON ALL CONSTRUCTION AND TRAFFIC
	THOSE DESIGNATED ON THE PLANS TO BE BLACK LEGEND AND BORDER ON WHITE BACK
(5)	THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO THE SURFACE TREATED SHOULDER TH STRUCTION. ANY REPAIR TO SHOULDER WILL BE IN ACCORDANCE WITH SECTION 410 OF
	FICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. NO PAYMENT WILL BE MADE FOR R
6	THE CONTRACTOR SHALL COVER ANY TEMPORARY TRAFFIC CONTROL SIGNS SHOWN IN T NOT APPLY TO THE CURRENT PHASE.
7	TEMPORARY STRIPING SHALL CONFORM TO FINISHED STRIPE SPECIFICATIONS FOR ALIG
8	ALL ITEMS OF WORK ASSOCIATED WITH THE INSTALLATION OF A CONSTRUCTION ENTRANG
9	SEE BRIDGE PLANS FOR DETAILED INDEX SHEET(S), ESTIMATED AND SUMMARY OF QUANT
_	CONTROL SHEETS.
10	ALL ADDENDA TO THESE PLANS WILL BE POSTED TO <u>WWW.MDOT.MS.GOV</u> UNDER THE PR
	BIDDERS ARE ADVISED THAT HARD COPIES OF ANY ADDENDA FOR THIS PROJECT WILL NO IT IS THE BIDDER'S RESPONSIBILITY TO CHECK AND SEE IF ANY ADDENDA HAVE BEEN POS
(11)	STORAGE OF FLAMMABLE MATERIALS WILL NOT BE ALLOWED UNDER ANY BRIDGE STRUC
	FROM THE PROJECT ENGINEER. SEE NOTICE TO BIDDERS ENTITLED "MATERIAL STORAGI INFORMATION.
(12)	THE CONTRACTORI IS ADVISED THAT THE EXISTING MDOT CLOSURE IS TO BE REMOVED V
~	INSTALLED. THE CONTRACTOR SHALL COORDINATE WITH THE MDOT PROJECT ENGINEER
	SUPERINTENDANT (MIKE HOWINGTON 601-527-1696 OR 601-483-2924) TO HAVE MDOT CLO

GENERAL NOTES

APPROXIMATE AND MAY BE ADJUSTED

E **MUTCD** (LATEST EDITION).

UCH AS, BUT NOT LIMITED TO, PIPES, JCTION. THE CONTRACTOR SHALL REPLACE LIFE OF THE CONTRACT. NO PAYMENT

C CONTROL SIGNS EXCEPT FOR KGROUND.

THAT MIGHT OCCUR DURING CON-F **THE MISSISSIPPI STANDARD SPECI-**REPAIR OF DAMAGED SHOULDER.

THE TRAFFIC CONTROL PLAN THAT DO

GNMENT, NEATNESS, AND STRAIGHTNESS.

NCE SHALL BE ABSORBED IN

NTITY SHEETS, AND EROSION

ROPOSAL ADDENDA COLUMN. NOT BE MAILED.

OSTED FOR THIS PROJECT.

JCTURES WITHOUT WRITTEN APPROVAL GE UNDER BRIDGES" FOR MORE

WHEN CONTRACTORS CLOSURE IS TO BE R AND THE MDOT MAINTENANCE OSURE REMOVED.

FMS CON: 307163/301000

PROJECT NO.

MRP-5059-38(235)

STATE

MISS.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION GENERAL NOTES
PROJ. NO.: MRP-5059-38(230)
WORKING NUMBER COUNTY: LAUDERDALE WORKING NUMBER GN-1 SHEET NUMBER BESIGN TEAM WALDON CHECKED UPDATE DATE UPDATE DATE

1st O.REV.

	SUMMARY OF QUANTITIES (SHEET 1)			
PAY ITEM NO.	PAY ITEM	UNIT	LAUDERDALE : 307163-301000	
202 0240			Prelim	Final
202-B240	Removal of Traffic Stripe		2,412	
403-D007	9.5-mm, HT, Asphalt Pavement, Polymer Modified	TON	9	
406-A002	Cold Milling of Bituminous Pavement, All Depths	SY	156	
618-A001	Maintenance of Traffic	LS	1	
619-A1002	Temporary Traffic Stripe, Continuous White	LF	1,362	
619-A2002	Temporary Traffic Stripe, Continuous Yellow	LF	1,362	
619-A3002	Temporary Traffic Stripe, Skip White	LF	1,362	
619-D1001	Standard Roadside Construction Signs, Less than 10 Square Feet	SF	32	
619-D2001			360	
619-F1001			370	
619-G4005	.9-G4005 Barricades, Type III, Single Faced		48	
620-A001 Mobilization		LS	1	
907-624-A002	6" Inverted Profile Thermoplastic Traffic Stripe, Skip White	LF	520	
907-624-B002	6" Inverted Profile Thermoplastic Traffic Stripe, Continuous White	LF	520	
907-624-D002	6" Inverted Profile Thermoplastic Traffic Stripe, Continuous Yellow	LF	520	
	OR			
628-G001	001 6" High Performance Cold Plastic Traffic Stripe, Skip White		520	
628-H001			520	
628-J001			520	
627-K001	Red-Clear Reflective High Performance Raised Markers	EA	7	

FMS: 307163-301000

	STATE	PROJECT NO.
	MISS	MRP-5059-38(230)
WILL WITH MODII THE M SOUTH SHALL	OUTHBO BE MILLE 1" OF 9. FIED ASP IILLING / H END OI . BE ABSO	UND OUTSIDE LANE D 1" AND REPLACED 5mm HT, POLYMER PHALT. THE LOCATION OF PAVING WILL BE AT THE F BR. 1382A.TACK COAT ORBED IN THE PRICE BID F, POLYMER MODIFIED
ASPHA		

\triangleleft						
GW	By	MISSISSIPPI DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES				
D PAY ITEMS AND FOOTNOTE	Revision				DI TRANSPORTATION	
ADDED PAY FOOT		PROJ NO: MRP-505			Working Number	
		COUNTY: LAUDERD	SQ-1			
5/29/2020	Date	FILENAME: REV59	Sheet Number			
05/29	Õ	Design Team WALDON	Checked	Date <u>4/29/2020</u>	4	

		9	SIGNS	REQU	JIRED			SIGNS REQUIRED (CONT'D)				SIGNS REQUIRED (CONT'D)							
	SIGN NO.	SIZE	UNIT AREA SQ.FT.	QUAN. REQ'D.	TOTAL SIGN AREA SQ.FT.	REMARKS		SIGN NO.	SIZE	UNIT AREA SQ.FT.		TOTAL SIGN AREA SQ.FT.	REMARKS	SIGN NO.	SIZE	UNIT AREA SQ.FT.	QUAN. REQ'D.	TOTAL SIGN AREA SQ.FT.	REMARKS
	G2Ø - 1	60″ X 24″	10.00 ♦	4	40	ROAD WORK NEXT X X MILES	1	R1 - 3	18" X 9"	1.13			3-WAY, (1)	W1 - 7	60" X 30"	12.50			↔ (2
	G2Ø - 2	48" X 24"	8.00	4	32	END ROAD WORK		R1 - 3	24" X 12"	2.00			4 WAY ETC. 2	W1 - 8L	18" X 24"	3.00			
	G2Ø - 4	36″ X 18″	4.50			PILOT CAR FOLLOW ME	-	R2 - 1	24" X 30"	5.00			(1)	W1 - 8L	36" X 48"	12.00			
							6	R2 - 1	36" X 48" 48" X 60"	12.00			SPEED LIMIT (2)	W1 - 8R	18" X 24"	3.00			$\frac{1}{2}$
1	M1 - 1	24″ X 24″	4.00			1 OR 2 DIGIT		R2 - 1 R3 - 1	36" X 36"	20.00 ♦ 9.00				W1 - 8R W1 - 9L	36" X 48" 48" X 48"	12.00 (16.00 (
1	M1 - 1	30" X 24"	5.00			3 DIGIT		R3 - 1	48" X 48"	16.00			\mathcal{O} $\frac{1}{2}$	W1 - 9R	48″ X 48″	16.00			\$
2	M1 - 4	24" X 24"	4.00			1 OR 2 DIGIT		R3 - 2	36" X 36"	9.00									· · · · · · · · · · · · · · · · · · ·
2	M1 - 4	30" X 24"	5.00			3 DIGIT		R3 - 2	48" X 48"	16.00				W3 - 1a	48″ X 48″	16.00 🖕			
								R3 - 4	36" X 36"	9.00									
3	M1 - 5	24" X 24"	4.00			1 OR 2 DIGIT		R3 - 4	48" X 48"	16.00				W3 - 2a	48″ X 48″	16.00 ♦			
3	M1 - 5	30″ X 24″	5.00			3 DIGIT	-	R3 - 5L	30" X 36"	7.50			ONLY		40 / 40				W
4		24" X 12"	2.00			NORTH- 1 OR 2 DIGIT RTE. MARKER		R3 - 5R		7.50				W3 - 3	48" X 48"	16.00 (
	M3 - 1 M3 - 1	30" X 15"				NORTH- 3		R3 - 6L	30″ X 36″ 30″ X 36″	7.50 7.50			Y	W3 - 5	48″ X 48″	16.00 4			SPEED REDUCTION
4	M3 - 2	24" X 12"	2.00			DIGIT RTE. MARKER EAST- 1 OR 2 DIGIT RTE. MARKER	-		JØ X J0				LEFT LANE			10.00			
4	M3 - 2	30″ X 15″	3.13			EAST- 3 DIGIT RTE. MARKER		R3 - 7L	30" X 30"	6.25			LEFT LANE MUST TURN LEFT	₩4 - 1L	48" X 48"	16.00 ♦			1
4	M3 - 3	24" X 12"	2.00			SOUTH- 1 OR 2 DIGIT RTE. MARKER		R3 - 7R					RIGHT LANE MUST	W = 1D		10 00			▲
4	M3 - 3	30″X 15″	3.13			SOUTH- 3 DIGIT RTE. MARKER		או - כא	30″ X 30″	6.25			TURN RIGHT		48″ X 48″	16.00 (► The second se
4	M3 - 4	24" X 12"	2.00			WEST- 1 OR 2 DIGIT RTE. MARKER	-	R4 - 1	24" X 30"	5.00			DO NOT PASS	W4 - 2L	48″ X 48″	16.00 (1
4	M3 - 4	30″ X 15″	3.13			WEST- 3 DIGIT RTE.MARKER			48" X 60"	20.00			(2)						
							-	R4 - 2	24" X 30" 48" X 60"	5.00 20.00			PASS WITH CARE	W4 - 2R	48" X 48"	16.00 ♦			
	M4 - 8	24" X 12"	2.00			DETOUR- 1 OR 2 DIGIT RTE. MARKER		R4 - 7	48″ X 60″	20.00			···						PAVEMENT
	M4 - 8	30" X 15"	3.13			DIGIT RTE. MARKER DETOUR- 3 DIGIT RTE. MARKER		R4 - 8	48" X 60"	20.00	1 1		, ,	W5 - 1a	48" X 48"	16.00 (NARROWS
	M4 0		12.00 ♦			DETOUR		R5 - 1	48" X 48"	16.00 (DO NOT ENTER			16.00 4			\$*7
	M4 - 9	48″ X 36″	12.00			<u> </u>		R5 - 1a	42" X 30"	8.75			WRONG WAY	W6 - 1	48" X 48"	10.00			+ (
	M4 - 9L	48″ X 36″	12.00 ♦			DETOUR		R6 - 1L	36" X 12"	3.00				W6 - 2	48″ X 48″	16.00 ♦			4,5
			12.00 .				-	R6 - 1R	36" X 12"	3.00									***
	M4 - 9BL	48″ X 36″	12.00 🔶					R6 - 2L	24" X 30"	5.00			WAY	W6 - 3	48" X 48"	16.00 ♦			
						DETOUR	-						ONE	W8 - 1	48″ X 48″	16.00 (BUMP
	M4 - 9SL	48″ X 36″	12.00 ♦					R6 - 2R	24" X 30"	5.00									SOF T
		19" V 36"	12.00 ♦			DE <u>T</u> OUR								W8 - 4	48" X 48"	16.00 ♦			SHOULDER
	M4 - 985L	48″ X 36″	12.00			<u> </u>		R11 - 2	48″ X 30″		II		ROAD CLOSED	W8 - 6	48" X 48"	16.00 ♦			TRUCK CROSSING
	M4 - 9R	48″ X 36″	12.00 ♦			DETOUR			60" X 30"	-			ROAD CLOSED XX MILES AHEAD BRIDGE OUT	W8 - 7					LOOSE GRAVEL
								R11 - 3b	60″ X 30″ 60″ X 30″				BRIDGE OUT XX MILES AHEAD ROAD CLOSED TO THRU TRAFFIC	W8 - 9 W8 - 11	48" X 48"	16.00			LOW SHOULDER
	M4 - 9BR	48″ X 36″	12.00 ♦					R11 - 4		12.50			TO THRU TRAFFIC	W8 - 11 W8 - 12	36" X 36" 48" X 48"	9.00 16.00 (UNEVEN LANES NO CENTER STRIPE
						DETOUR	-						WEIGHT	W1Ø - 1	36" DIA.	7.07			
	M4 - 9SR	48″ X 36″	12.00 ♦			1		R12 - 1	36″ X 48″	12.00			LIMIT XX TONS	W1Ø - 1	48" DIA.	12.56 ♦			$\left(\begin{array}{c} R \\ R \\ \end{array} \right) \left(\begin{array}{c} 1 \\ C \\ C \\ \end{array} \right) \left(\begin{array}{c} 1 \\ C \\ C \\ \end{array} \right) \left(\begin{array}{c} 1 \\ C \\ C \\ \end{array} \right) \left(\begin{array}{c} 1 \\ C \\ C \\ C \\ \end{array} \right) \left(\begin{array}{c} 1 \\ C \\ C \\ C \\ \end{array} \right) \left(\begin{array}{c} 1 \\ C \\ C \\ C \\ C \\ \end{array} \right) \left(\begin{array}{c} 1 \\ C \\$
			10.00			DETOUR								W13 - 1	24" X 24"	4.00			XX MPH
	M4 - 903R	48″ X 36″	12.00 ♦				7	R16- 3	36" X 48"	12.00 (WHEN WORKERS ARE PRESENT SPEEDING FINES	W14 - 3	36"X48"X48"	5.56			NO PASSING
	M4 - 10L	48" X 18"	6.00				67		48″ X 60″	20.00			DOUBLED		48″X64″X64″	9.89			ZONE (2
	M4 - 10R	48" X 18"	6.00					W1 - 1∟	48″ X 48″	16.00 (W16-2	24" X 18"	3.00			XXX FEET BRIDGE MAY ICE IN COLD WEATHE
							-	W1 - 1C W1 - 1R	48" X 48"	16.00				W19 - 2 W2Ø - 1	48" X 48" 48" X 48"	16.00 • 16.00 •	20	320	
4	M4 - 5	24" X 12"	2.00			ТО	-	W1 - 2L	48" X 48"				<u> </u>	W2Ø - 1	36" X 36"	9.00	20	520	ADVANCE ROAD WORK
4	M5 - 1L	21" X 15"	2.19			4		W1 - 2R	48" X 48"	16.00			<u> </u>	W2Ø - 2	48" X 48"	16.00 ♦			ADVANCE DETOUR
4	M5 - 1R	21" X 15"	2.19			r →		W1 - 3L	48" X 48"	16.00 (£	W2Ø - 3	48" X 48"	16.00 (ADVANCE ROAD CLOSED
4	M5 - 2L	21" X 15"	2.19			`	-	W1 - 3R	48" X 48"				\$						
4	M5 - 2R	21" X 15"	2.19			7	-	W1 - 4aL	48" X 48"		┥───┤			W20 - 4	48" X 48"	16.00			ADVANCE ONE-LN. RD.
4	M6 - 1L M6 - 1R	21" X 15" 21" X 15"	2.19 2.19			+	-	W1 - 4aR	48" X 48"	16.00	┨────┤			W2Ø - 4B W2Ø - 5L	48" X 48" 48" X 48"	16.00 (16.00 (ADVANCE ONE-LN. BR. ADVANCE LT. LN. CLOSED
- -	M6 - 1R M6 - 2L	21 X 15 21" X 15"	2.19			<u>→</u> <u>×</u>	-	W1 - 5L	48" X 48"	16.00 (5	W20 - 5L W20 - 5R		16.00			ADVANCE RT. LN. CLOSED
4	M6 - 2R	21 × 15 21" × 15"	2.19				1						• •		, 🗸				
4		21" X 15"	2.19			 †	1	W1 - 5R	48" X 48"	16.00			5						
								W1 - 6L	48" X 24"										
		70" 00- 100	7 4 0					W1 - 6L	60" X 30"				2	W20 - 70	48″ X 48″	16.00 4			
		36" OCTAGON				STOP $\frac{(1)}{(2)}$		W1 - 6R	48" X 24"		-								
		48″ OCTAGON 48″ X 48″ X 48″						W1 - 6R W1 - 7	60" X 30" 48" X 24"					W21 - 1	36″ X 36″	9.00			WORKERS
		48 X 48 X 48 60" X 60" X 60"				YIELD $\frac{1}{2}$		VV — (8.00									•
	ι <u>ι</u> - Ζ		-~····				1		<u>I</u>	<u> </u>				W21 - 1a	36" X 36"	9.00			

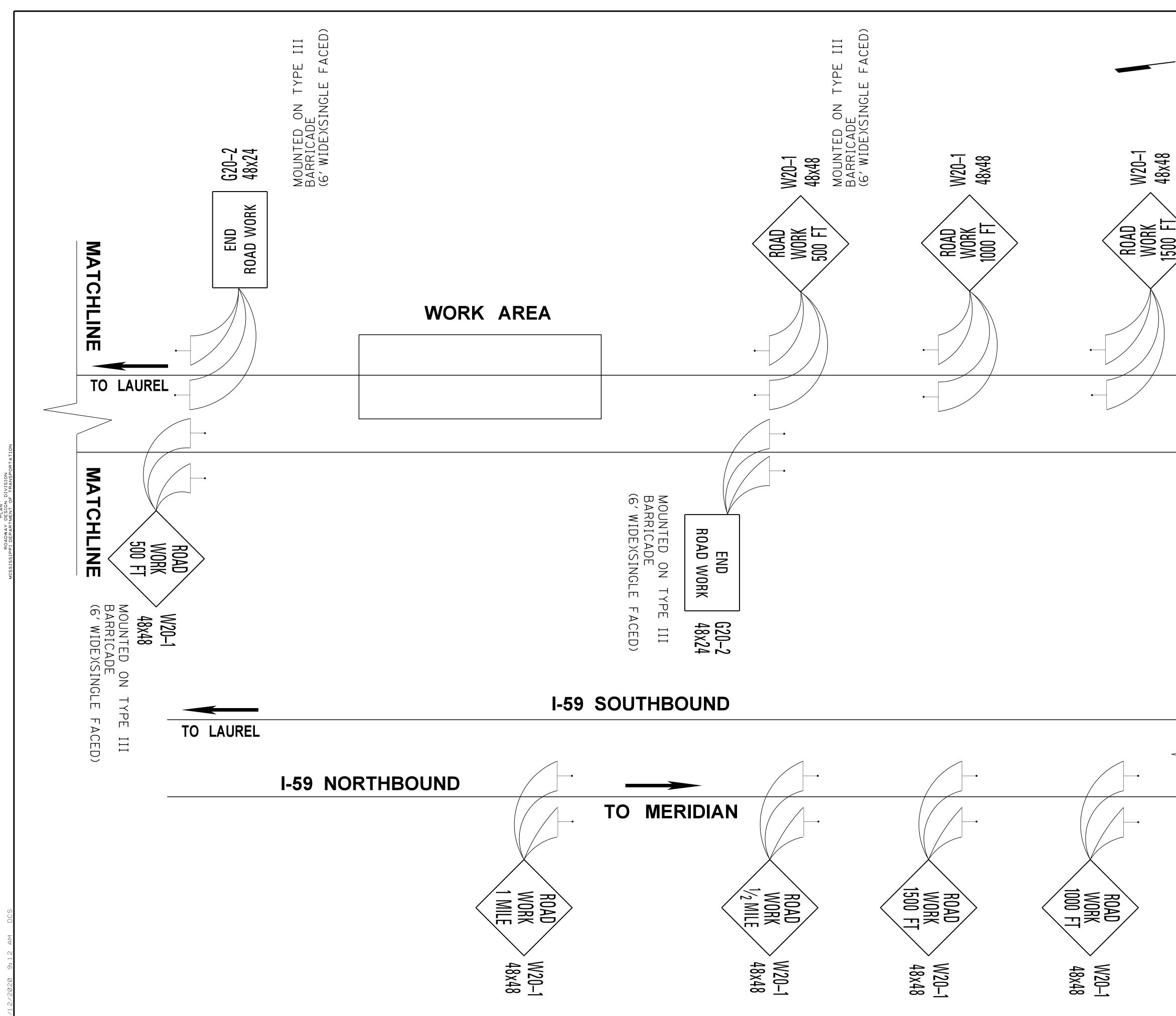
PLAN ROADWAY DESIGN DIVISION SSIPPI DEPARTMENT OF TRANSPORT

						F	MS CON: 307163/3010
-						<u>STA</u> TE	PROJECT NO.
		SIGN	S REQ	UIRED		MISS.	MRP-5059-38(230
1	SIGN NO.	SIZE	UNIT AREA SQ.FT.	QUAN. REQ'D.	T SIG	OTAL SN AREA SQ.FT.	REMARKS
2	W21 - 2	36″ X 36″	9.00				FRESH OIL (TAR)
	W21 - 3	48″ X 48″	16.00 ♦				ADVANCE ROAD MACHINERY
$\overline{2}$	W21 - 5	48″ X 48″	16.00 ♦				SHOULDER WORK
_	W21 - 6	36″ X 36″	9.00				SURVEY CREW
	W24 - 1L	48" X 48"	16.00 ♦				$\langle \hat{c} \rangle \langle \hat{c} \rangle$
_	W24 - 1R W24 - 1ΔI	48" X 48"	16.00 ♦ 16.00 ♦				
-	W24 - 1AL W24 - 1AR	48″ X 48″ 48″ X 48″	16.00 •				$\langle \langle \rangle \langle \rangle \rangle$
	W24 - 1BL	48″ X 48″	16.00				
	W24 - 1BR	48" X 48"	16.00 ♦				
	VP - IL	12″ X 36″	3.00				N
-	VP - IR	12″ X 36″	3.00				
- 5	OM - 3L OM - 3R	12″ X 36″ 12″ X 36″	3.00 3.00				
_	TOTAL	SIGN /	AREA	LESS 10 S			32 SQ.FT.
_							
	TOTAL	SIGN	AREA			.FT. → DRE	360 SQ.FT.
_	(1) STANDA	RD					
	2 SPECIAL	USE WHER	E WARRAN	NTED)			
-			NO	TES			
_		TATE ROUTE					
		STATES RO		KER			
		ROUTE MARK					
2							DIRECTIONAL
	ROUTE	5 SHALL BE Markers. Stripes on					OWF AN LING
2		TATE USE C					

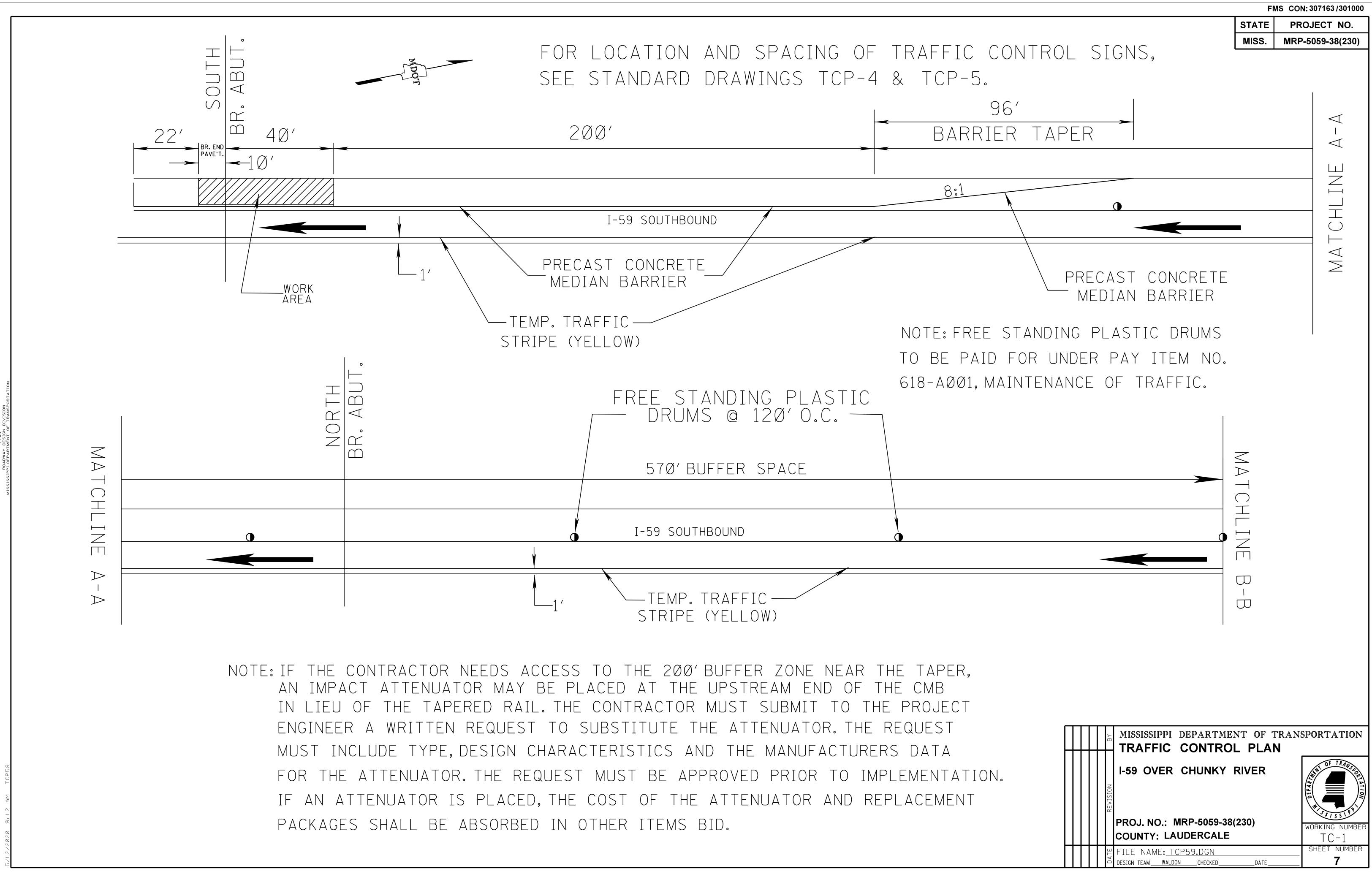
7 TOP OF SIGN - BLACK LETTERING ON ORANGE BACKGROUND, BOTTOM OF SIGN - BLACK LETTERING ON WHITE BACKGROUND

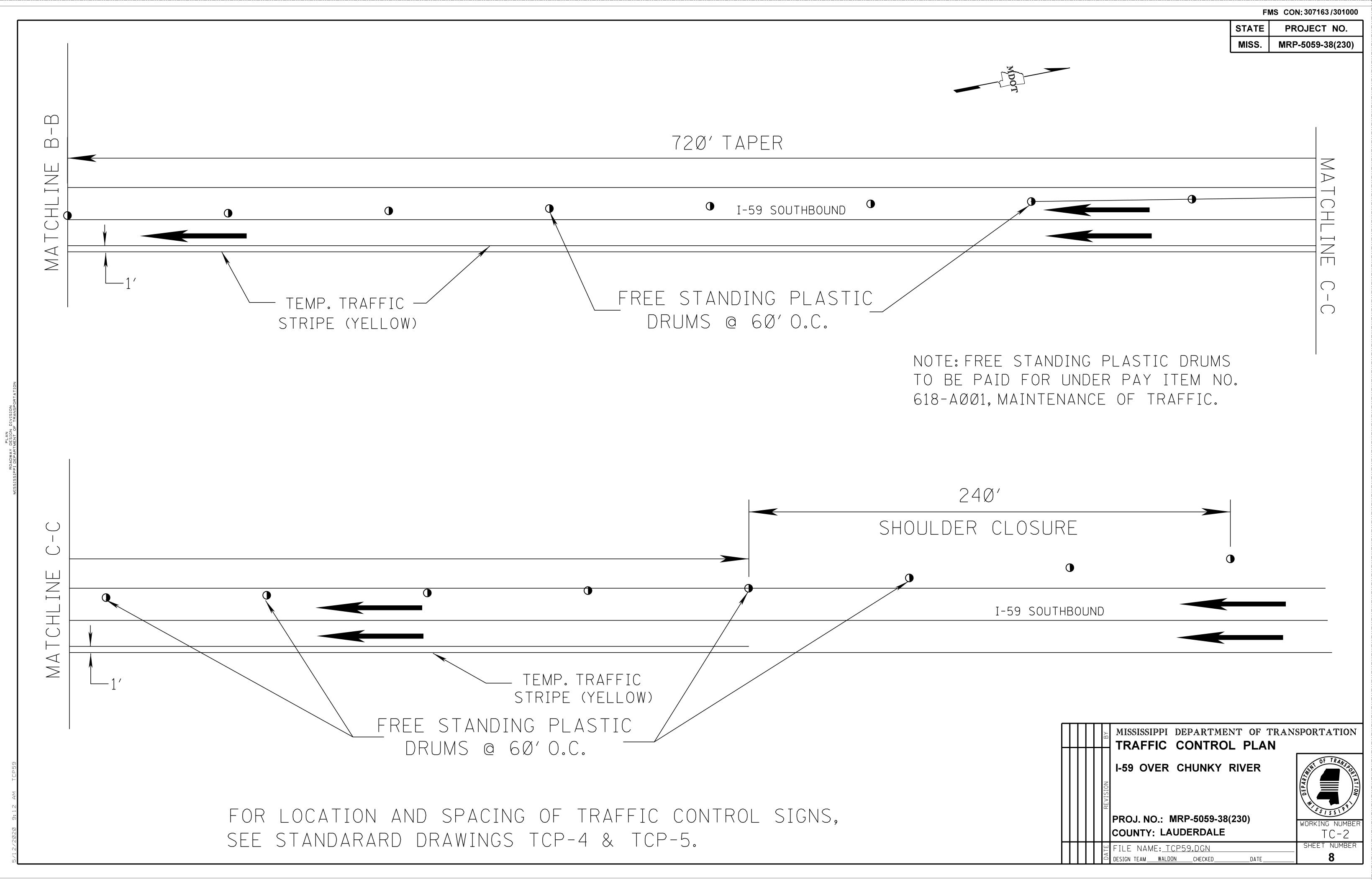
THE BACKGROUND OF ALL WARNING SIGNS ("W" SERIES)EXCEPT W10-1 SHALL BE ORANGE. THE W10-1 BACKGROUND SHALL BE YELLOW IN ALL CASES.

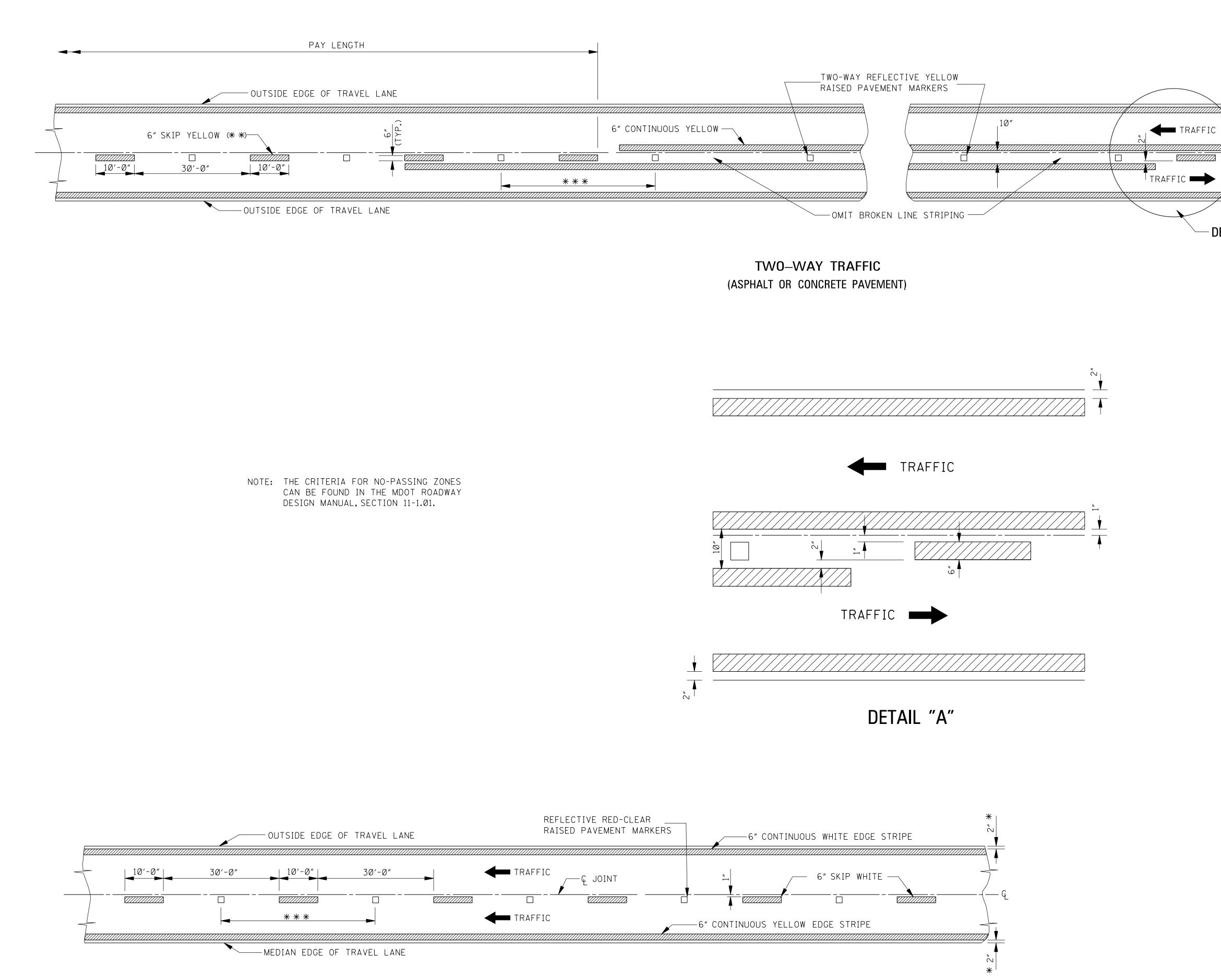
B	MISSISSIPPI DEPARTMENT OF TRAN	SPORTATION
REVISION	ESTIMATED QUANTITIES FOR TRAFFIC CONTROL SIGNS	OF TRANSPORTATION HILLING DE TRANSPORTATION
	PROJ.NO.: MRP-5059-38(230) COUNTY: LAUDERDALE	WORKING NUMBER
DATE	FILE NAME: <u>EQ59.dgn</u> design team <u>Waldon</u> checkeddate	SHEET NUMBER 5

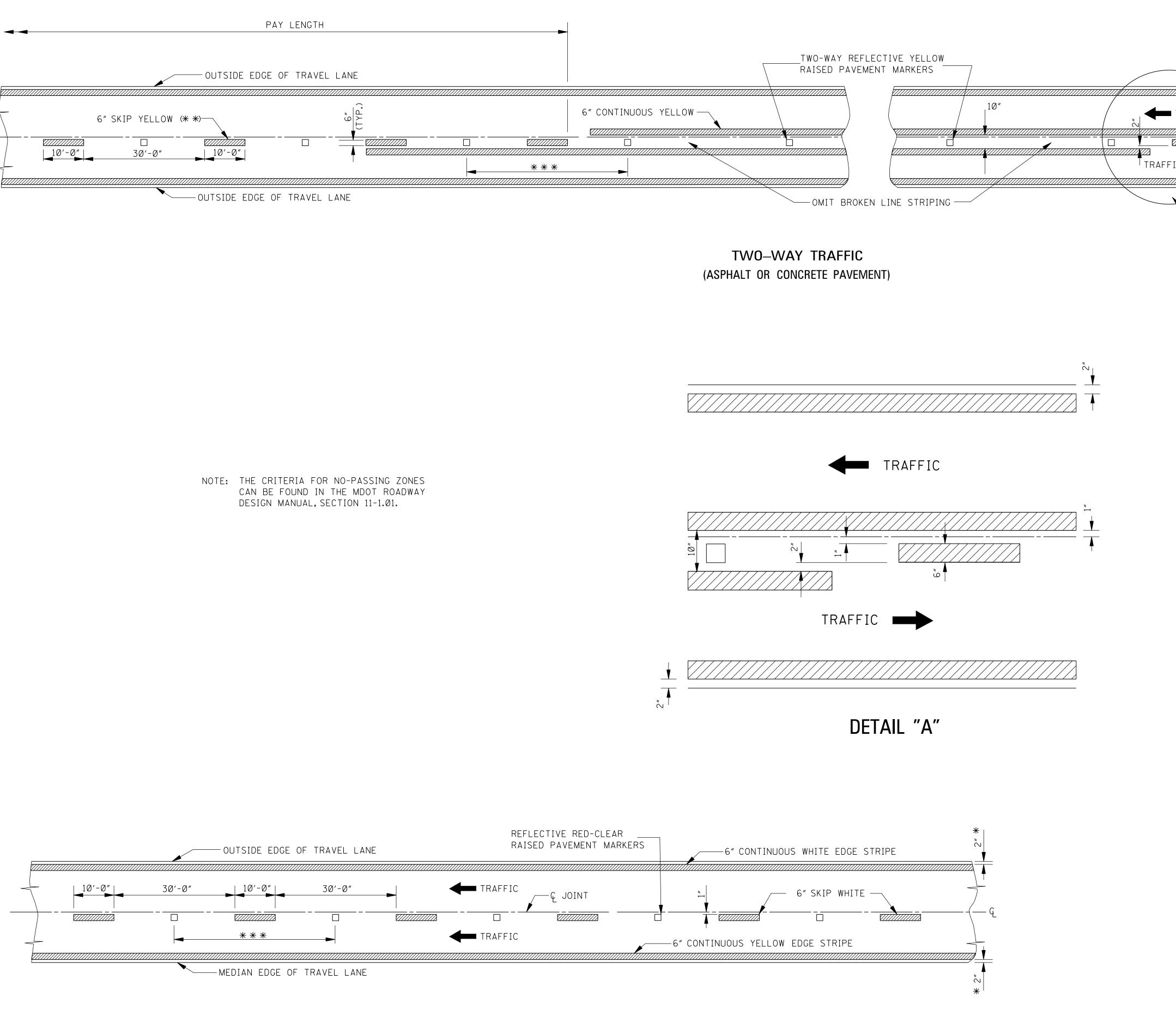


		FN	IS CON: 307163/301000
		STATE	PROJECT NO.
		MISS.	MRP-5059-38(230)
	ROAD WORK 1/2 MILE 48x48		ROAD WORK 1 MILE 48x48
	RTHBOUND		
10			
Z			
T			
MATCHLINE			
N			
MATCH			
m		EK	
	REVISION		
	COUNTY: LAUDERDALE	(230)	WORKING NUMBER DCS-1
	FILE NAME: <u>DCS.DGN</u>		SHEET NUMBER
	DESIGN TEAM WALDON CHECKED	DATE4	/17/2020 6



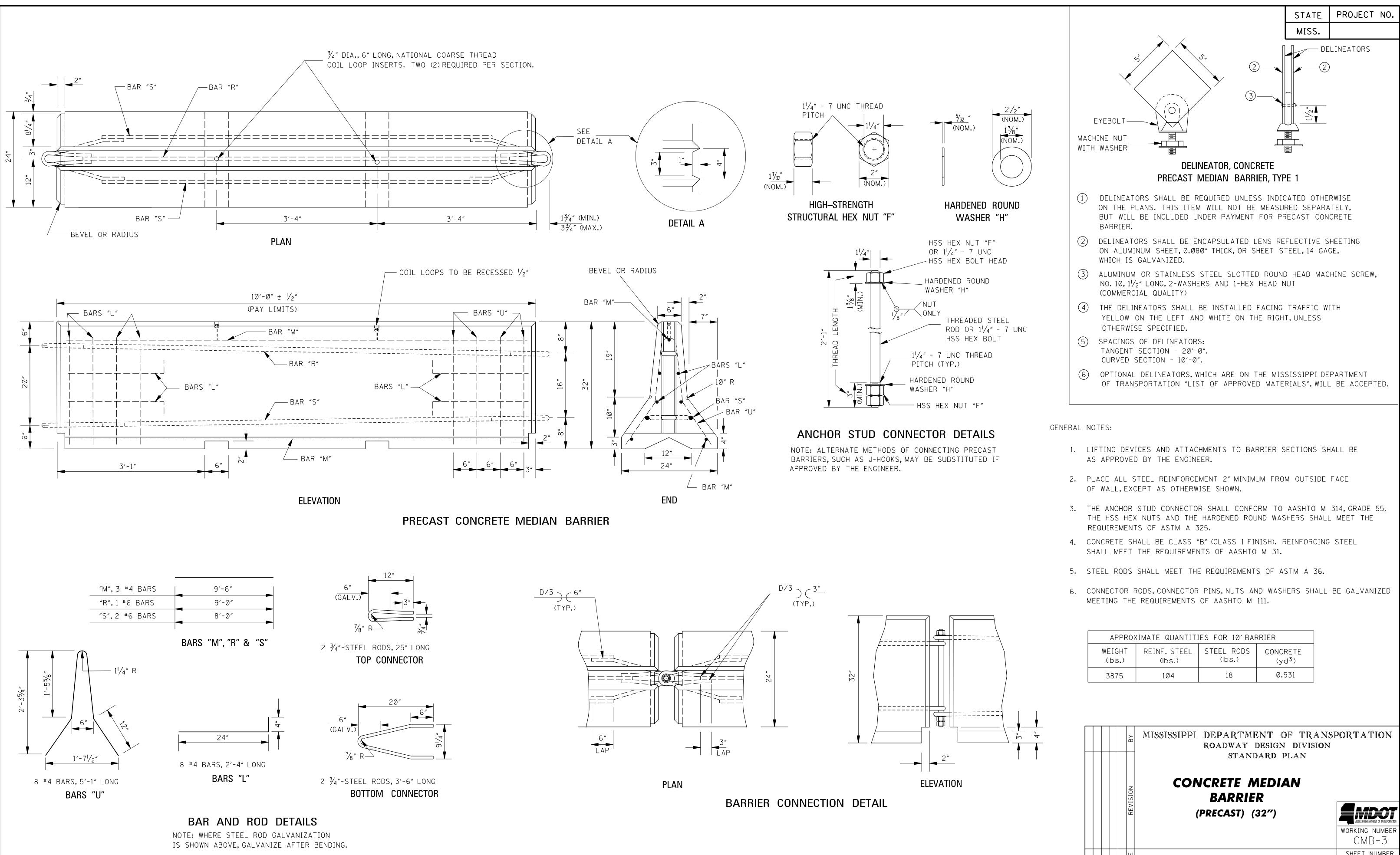


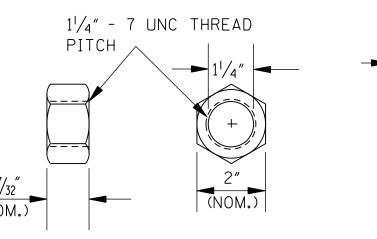


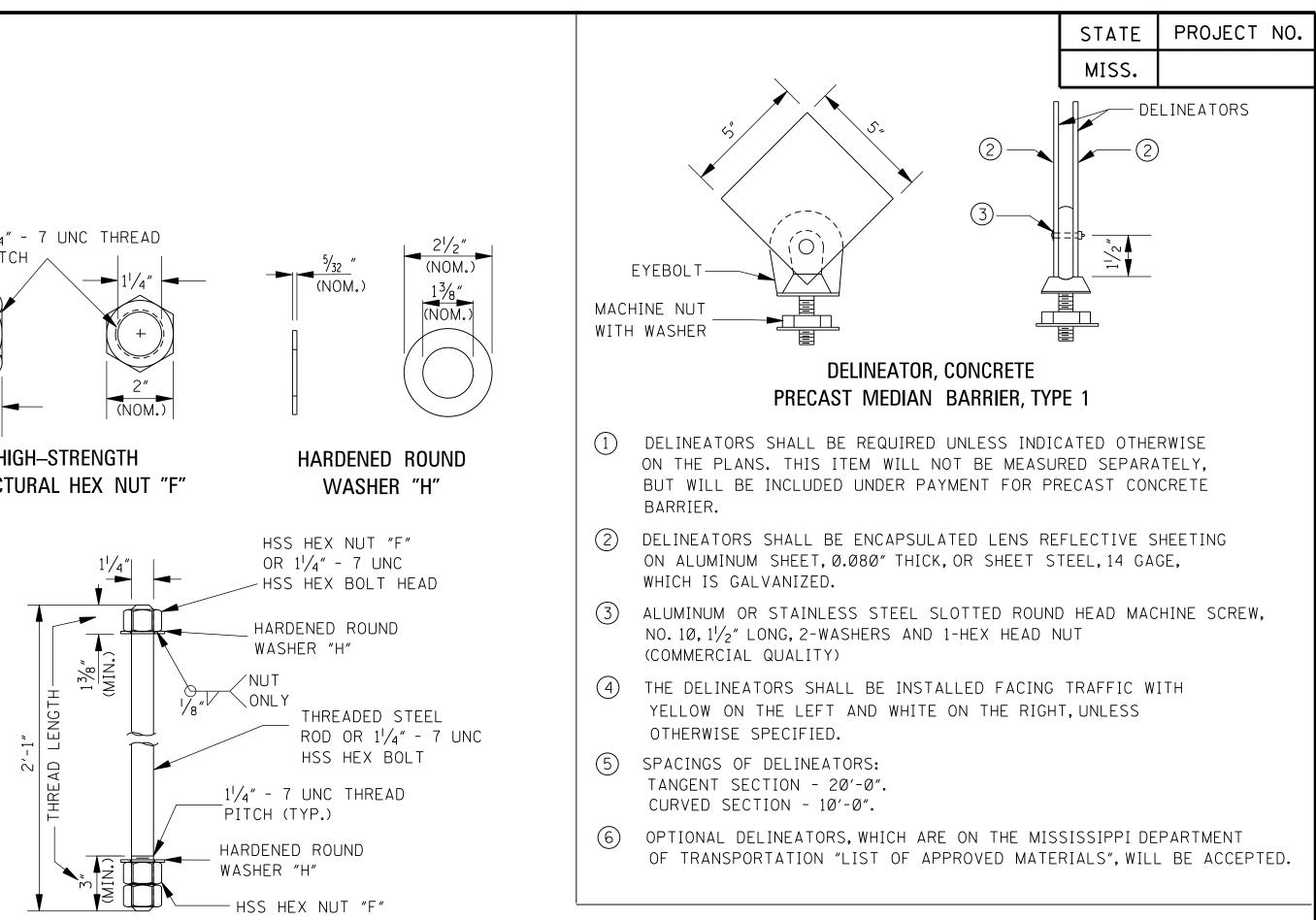


4-LANE WITH ONE-WAY TRAFFIC

PROJECT NO. STATE MISS. 6" CONTINUOUS YELLOW (**) —ę joint 6" CONTINUOUS WHITE EDGE STRIPE (**) - DETAIL "A" DIRECTION OF TRAFFIC GENERAL NOTES: * 1. 2" UNLESS SHOWN ELSEWHERE ON THE PLANS. FOR STRIPING ON RUMBLE STRIP SECTIONS REFER TO WK. SHEETS RS-1, RS-2, AND RS-3. * * 2. EDGE STRIPE SHALL BE SAME MATERIAL AS LANE-LINE STRIPE (PAINT OR PLASTIC AS INDICATED IN PAY ITEMS). * * * 3. SPACING OF REFLECTIVE RAISED PAVEMENT MARKERS IS AS FOLLOWS: URBAN AREA RURAL AREA (ft-in) (ft-in) TANGENT SECTIONS 40'-0" 80'-0" HORIZONTAL CURVES 40'-0" 40'-0" INTERCHANGE LIMITS 40'-0" + 40'-0" + NOTE: ON THE MAIN FACILITY, REFLECTIVE RED-CLEAR RAISED PAVEMENT MARKERS ON A 40'-0" SPACING WILL BE REQUIRED ON LANE-LINE(S) THROUGH ALL INTERCHANGE AREAS BEGINNING 1000' IN ADVANCE (IN DIRECTION OF TRAFFIC) OF THE EXIT RAMP TAPER AND CONTINUING THROUGH THE INTERCHANGE TO THE END OF THE ENTRANCE RAMP TAPER. 4. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE REFLECTIVE RAISED PAVEMENT MARKERS AS LISTED IN THE MDOT "APPROVED SOURCES OF MATERIALS." MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN PAVEMENT MARKING **DETAILS FOR** REVISION 2-LANE AND 4-LANE DIVIDED ROADWAYS working number PM-1 SHEET NUMBER AUGUST Ø1,2Ø17 SUE DATE:__ 6Ø51

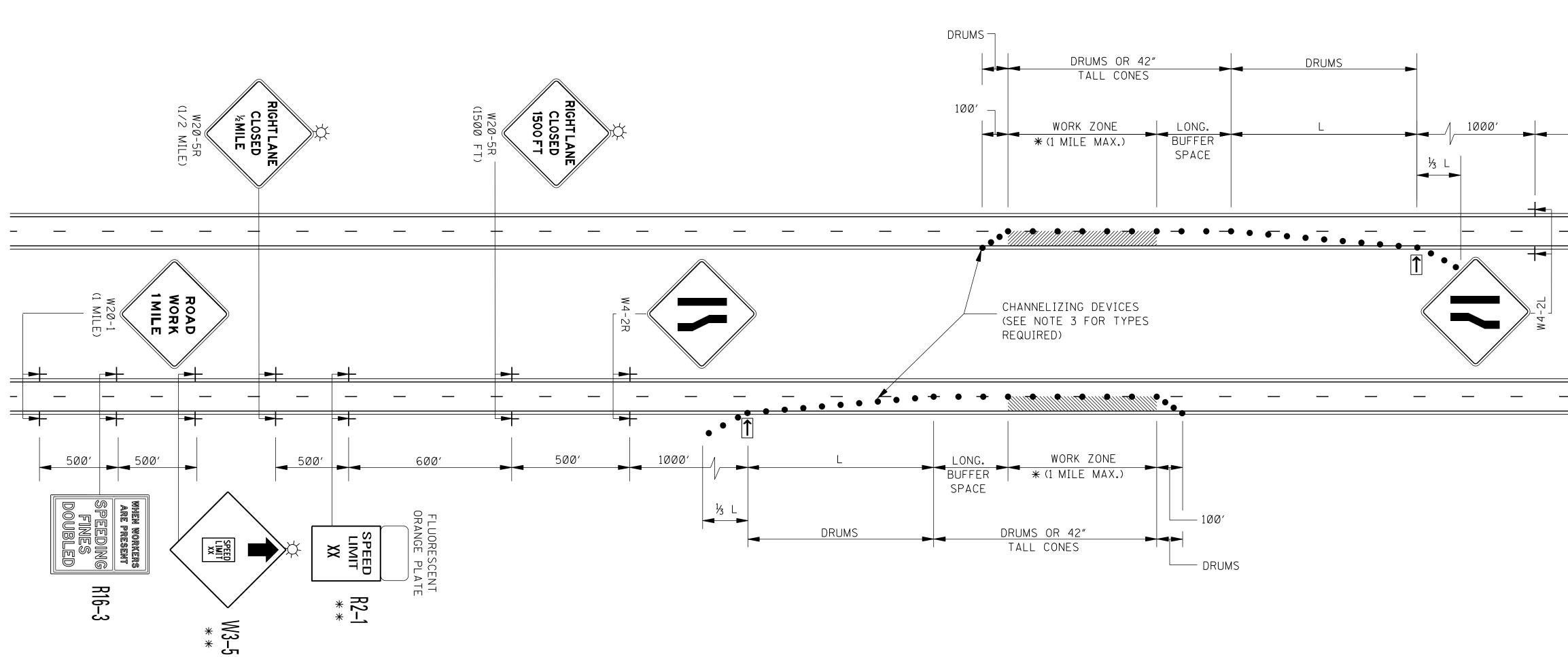






APPROXIMATE QUANTITIES FOR 10' BARRIER									
WEIGHT (Ibs.)	REINF.STEEL (Ibs.)	STEEL RODS (Ibs.)	CONCRETE (yd ³)						
3875	104	18	Ø.931						

BY	MISSISSIPPI DEPARTMENT OF TRANS roadway design division standard plan	PORTATION
REVISION	CONCRETE MEDIAN BARRIER (PRECAST) (32")	MISSISPPI DEPARTMENT OF TRANSPORTATION
		working number CMB-3
DATE	ISSUE DATE: AUGUST Ø1, 2017	sheet number 6226



GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:

POSTED SPEED AND/OR DESIGN SPEED mph	СНА	AXIMUM NNELIZING CE SPACING (f†) ALONG BUFFER SPACE & WORK ZONE	tt LONGITUDINAL BUFFER SPACE (ft)	TAPER [†] RATES
<u><</u> 4Ø	40	8Ø	305	27:1
45	45	90	36Ø	45:1
50	50	100	425	5Ø:1
55	55	11Ø	495	55:1
60	6Ø	12Ø	57Ø	6Ø:1
65	65	130	645	65:1
7Ø	7Ø	140	73Ø	7Ø : 1

+ NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:

L = WS FOR SPEEDS OF 45 mph OR GREATER

 $L = WS^2/60$ FOR SPEEDS OF 40 mph OR LESS

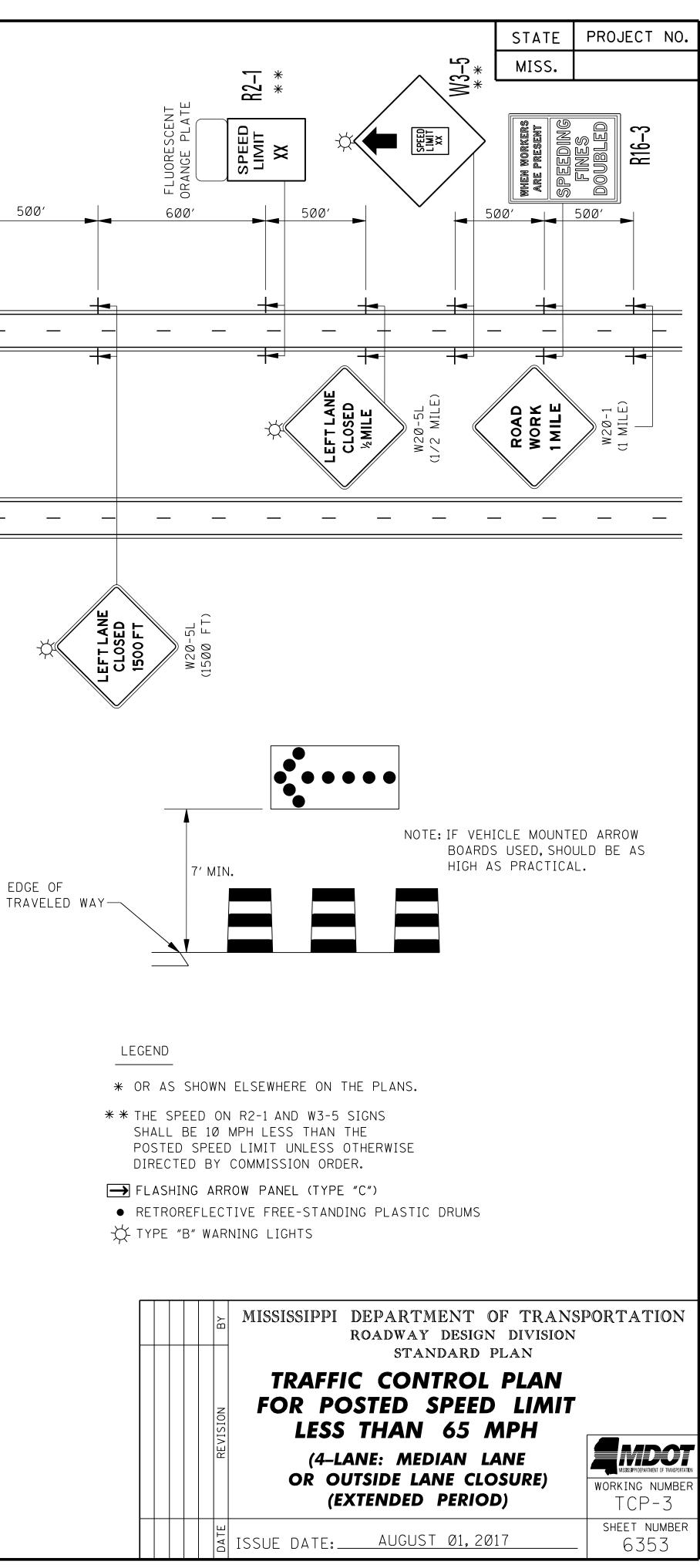
WHERE: L = MINIMUM LENGTH OF TAPER IN FEET W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET

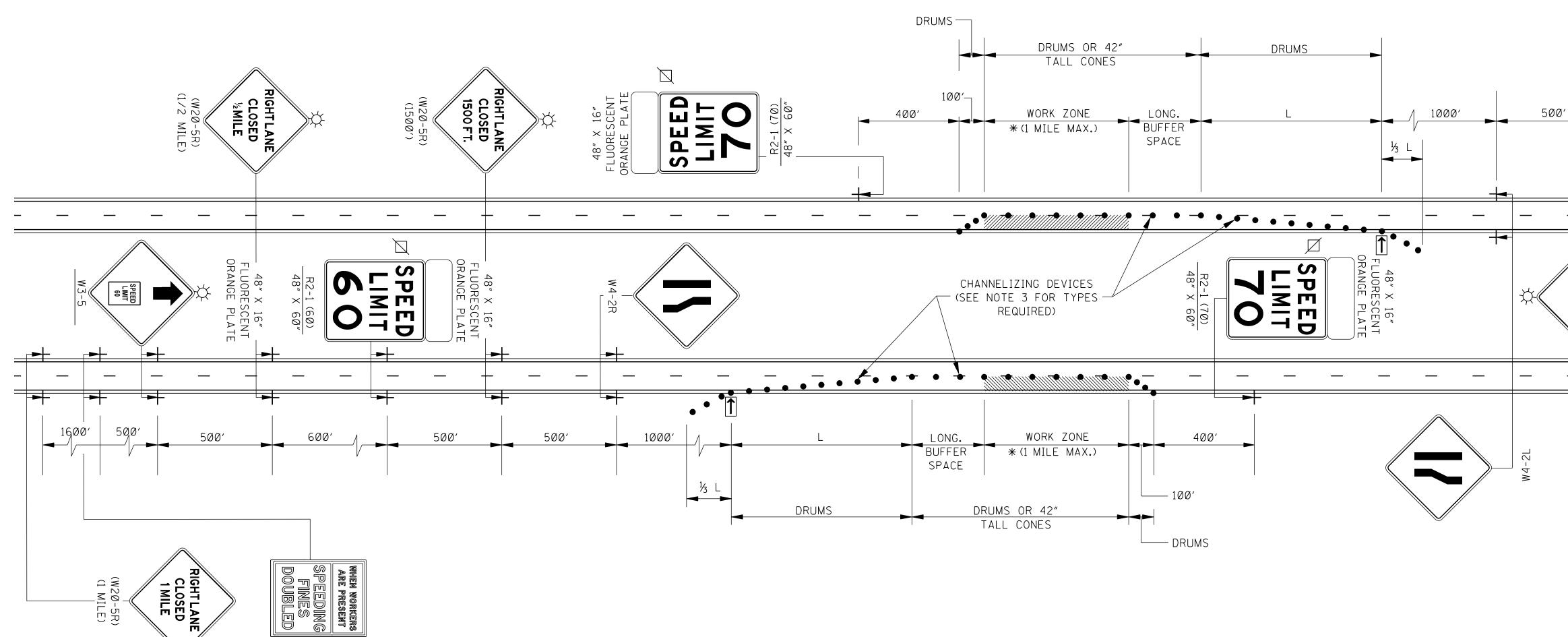
S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN

MILES PER HOUR

++ NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

- 2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.
- 3. CHANNELIZING DEVICES:
- A. ALL CHANNELIZING DEVICES IN TAPERS SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
- B. CHANNELIZING DEVICES IN TANGENTS MAY BE EITHER RETROREFLECTIVE FREE STANDING PLASTIC DRUMS OR 42" TALL CONES.
- C. ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE.
- D. RETROREFLECTORIZATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE M.U.T.C.D.
- 4. FOR MOVING OPERATIONS (PAVING) THE CONTRACTOR SHALL HAVE TWO (2) SETS OF ADVANCE WARNING SIGNS, PLASTIC DRUMS, AND ARROW BOARD. WHEN THE CONSTRUCTION ZONE IS MOVED AHEAD, ALL SIGNS, PLASTIC DRUMS AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY SIGNS, PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.
- 5. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48". AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.
- 6. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.







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1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING

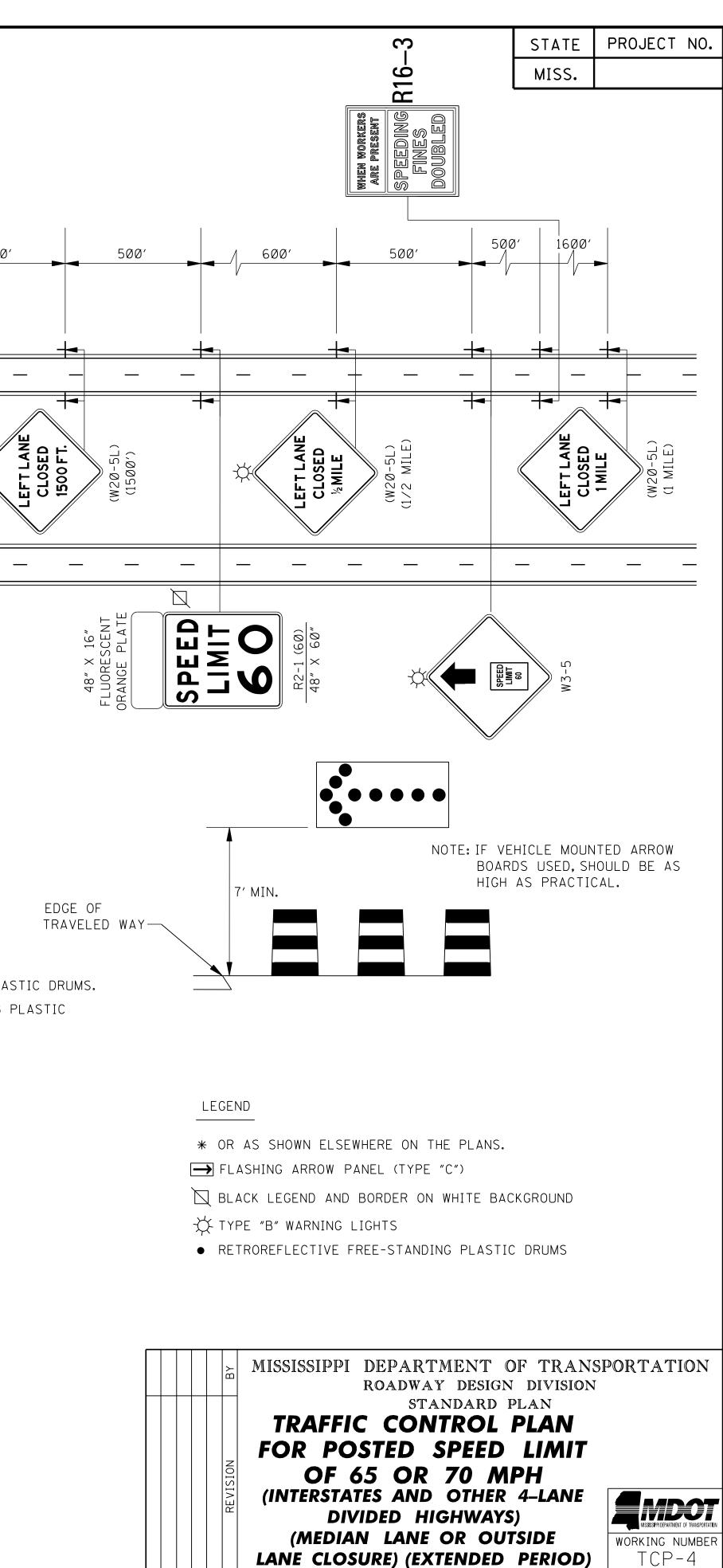
IABLE:					
POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		++ LONGITUDINAL BUFFER SPACE	TAPER [†] RATES	
mph	TAPER	ALONG BUFFER SPACE & WORK ZONE	(f+)	NAILS	
<u></u>	40	80	305	27:1	
45	45	90	36Ø	45:1	
50	5Ø	100	425	50:1	
55	55	11Ø	495	55 : 1	
60	6Ø	12Ø	57Ø	60:1	
65	65	130	645	65:1	
7Ø	7Ø	140	73Ø	7Ø:1	

+ NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS: L = WS FOR SPEEDS OF 45 mph OR GREATER $L = WS^2/60$ FOR SPEEDS OF 40 mph OR LESS WHERE: L = MINIMUM LENGTH OF TAPER IN FEET W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

- ++ NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.
- 2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.

3. CHANNELIZING DEVICES:

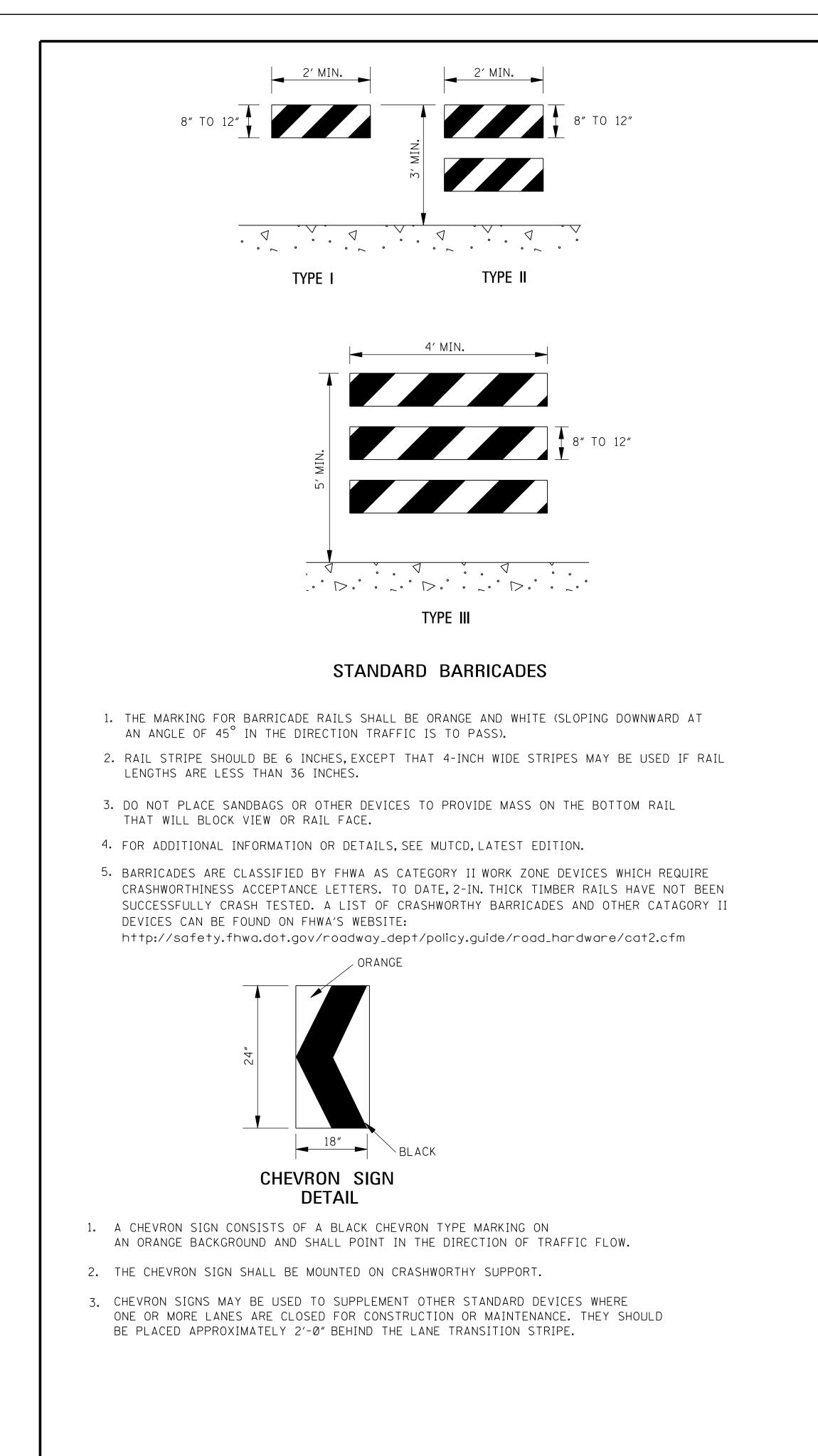
- A. ALL CHANNELIZING DEVICES IN TAPERS SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
- B. CHANNELIZING DEVICES IN TANGENTS MAY BE EITHER RETROREFLECTIVE FREE STANDING PLASTIC DRUMS OR 42" TALL CONES.
- C. ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE.
- D. RETROREFLECTORIZATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE M.U.T.C.D.
- 4. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48". AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.
- 5. ALL EXISTING SPEED LIMIT SIGNS WHICH ARE INFLUENCED BY OR CONFLICT WITH THE SPEED ZONE REDUCTION SHALL BE COVERED AS DIRECTED BY THE ENGINEER WHILE THE REDUCED SPEED LIMIT IS IN EFFECT. TAPE SHALL NOT BE USED ON FACE OF SIGN.
- 6. ADDITIONAL REDUCED REGULATORY SPEED LIMIT SIGNS ARE REQUIRED AT EACH ENTRANCE RAMP WITHIN THE SPEED ZONE. TWO (2) WILL BE REQUIRED FOR EACH RAMP AND LOCATION WILL BE DETERMINED BY THE ENGINEER.
- 7. THIS TRAFFIC CONTROL PLAN, WITH SPEED ZONE, MAY NOT BE USED ON ANY FACILITY WHERE THE POSTED SPEED LIMIT IS BELOW 65 MPH WITHOUT A COMMISSION ORDER REQUESTING A SPEED LIMIT REDUCTION.
- 8. LAYOUT SHOWN ABOVE IS FOR AN INTERSTATE WITH A POSTED SPEED LIMIT OF 70 MPH. FOR POSTED SPEED LIMIT OF 65 MPH, THE REDUCED SPEED LIMIT WILL BE 55 MPH.
- 9. A FLUORESCENT ORANGE PLATE IS REQUIRED WITH ALL REGULATORY SPEED LIMIT SIGNS REQUIRED FOR LANE CLOSURE.
- 10. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

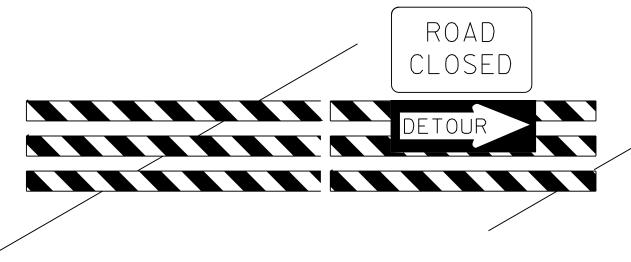


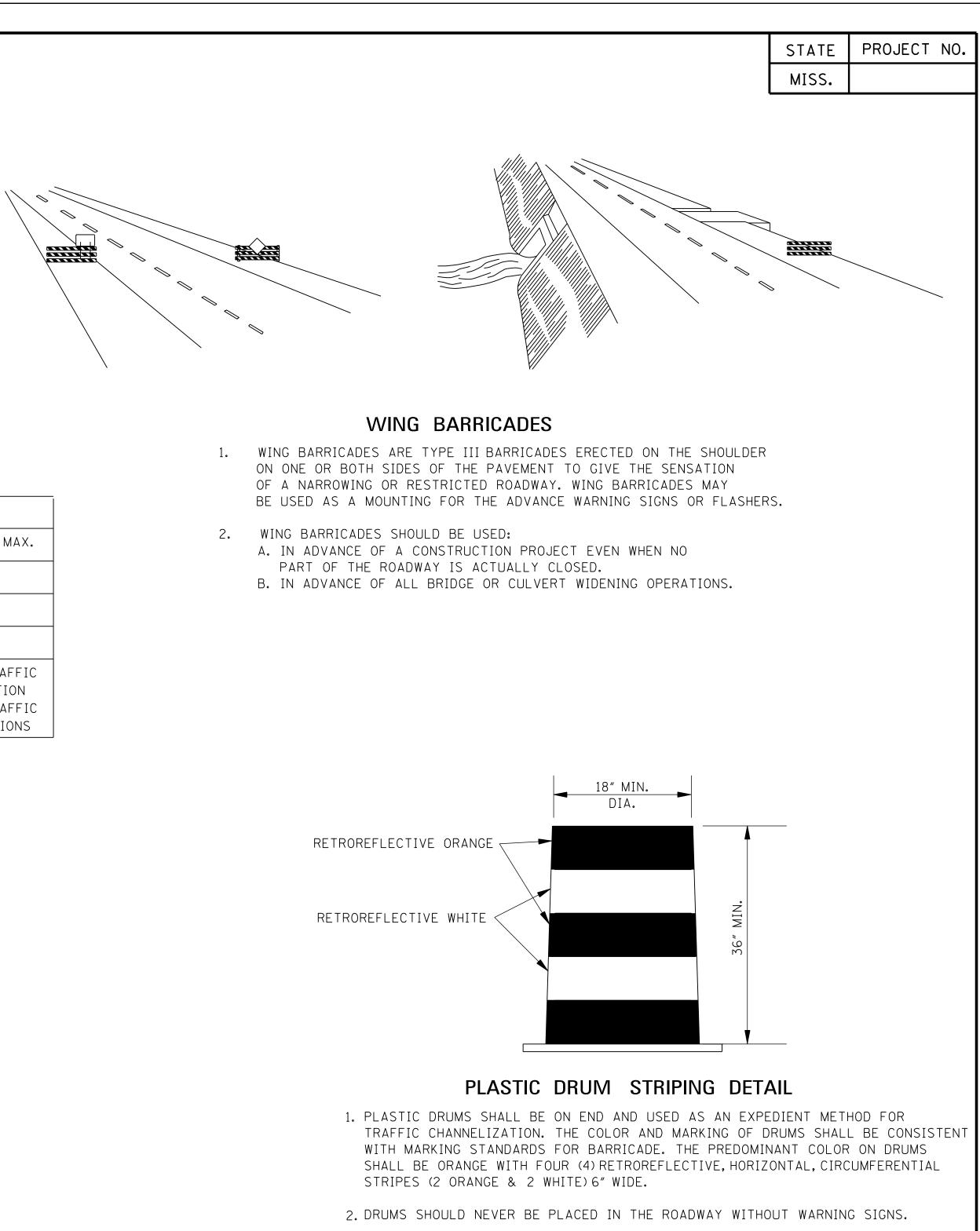
SISSUE DATE: AUGUST Ø1, 2017

SHEET NUMBER

6354







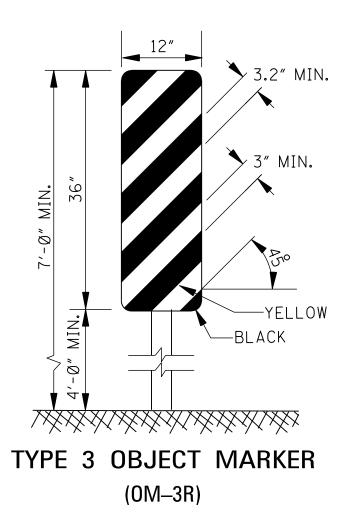
BARRICADE CLOSING A ROAD

BARRICADE CHARACTERISTICS

	I	I	ш
WIDTH OF RAIL * *	8″ MIN 12″ MAX.	8″ MIN 12″ MAX.	8″ MIN 12″ MAX.
LENGTH OF RAIL **	24″ MIN.	24″ MIN.	48″ MIN.
WIDTH OF STRIPE *	6″	6″	6″
HEIGHT	36″ MIN.	36″ MIN.	60″ MIN.
NUMBER OF RETROREFLECTORIZED RAIL FACES	2 (ONE EACH DIRECTION)	4 (TWO EACH DIRECTION)	3 IF FACING TRAFFIC IN ONE DIRECTION 6 IF FACING TRAFFIC IN TWO DIRECTIONS

* 1. FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.

** 2. BARRICADES INTENDED FOR USE ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH SPEED ROADWAYS, SHALL HAVE A MINIMUM OF 270 in² of reflective area FACING TRAFFIC.

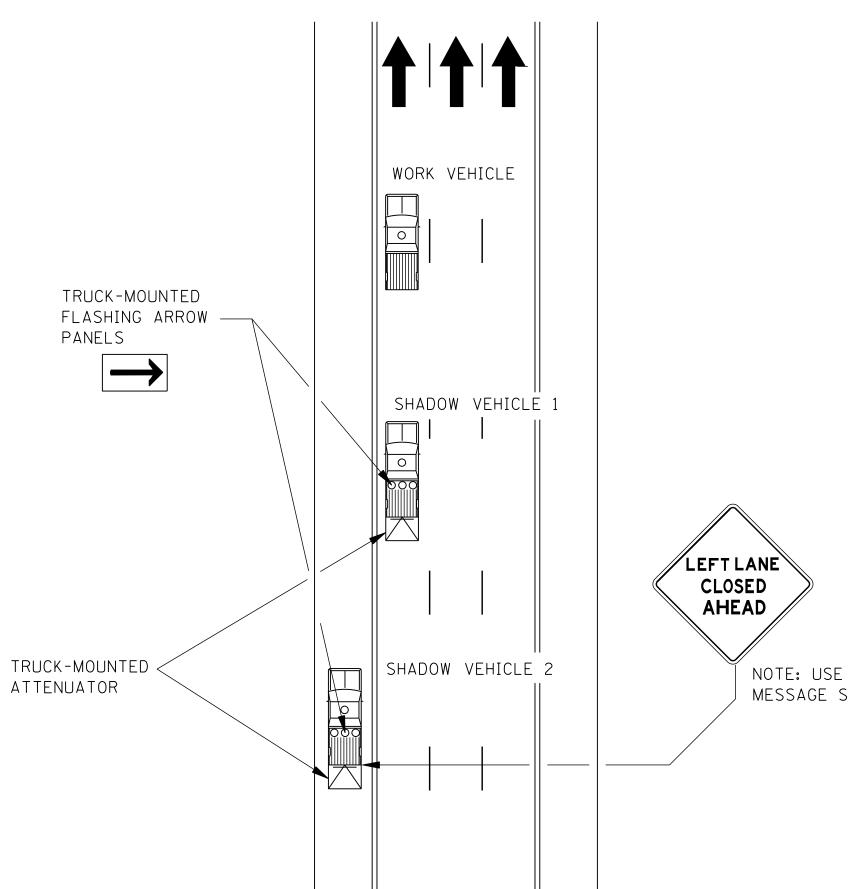


- 1. TYPE 3 OBJECT MARKERS SHALL BE USED AT ALL EXPOSED BRIDGE ABUTMENTS AND AT OTHER LOCATIONS AS DEEMED NECESSARY BY THE ENGINEER.
- 2. THE OM-3R IS SHOWN. THE OM-3L IS SIMILAR EXCEPT THE STRIPES SLOPE DOWNWARD FROM THE UPPER LEFT SIDE TO THE LOWER RIGHT SIDE AND SHALL BE PLACED ON THE LEFT SIDE OF THE OBJECT.
- 3. THE INSIDE EDGE OF THE MARKER SHALL BE IN LINE WITH THE INNER EDGE OF THE OBSTRUCTION.

3. WHERE PRACTICAL PLASTIC DRUMS SHOULD BE PLACED NO CLOSER THAN 3'-Ø" FROM THE EDGE OF TRAVELED LANE.

	BY	MISSISSIPPI DEPARTMENT OF TRANS Roadway design division standard plan	PORTATION
	REVISION	HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS	WORKING NUMBER
	DATE	ISSUE DATE: AUGUST Ø1,2017	sheet number 6358

MOBILE OPERATIONS ON MULTILANE ROAD

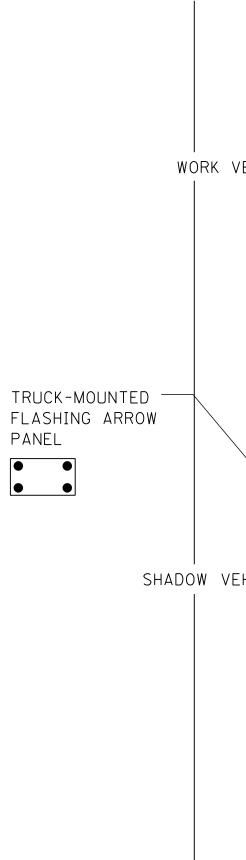


MOBILE OPERATIONS ON MULTILANE ROAD

NOTES FOR MULTILANE LANE OPERATION:

- 1. VEHICLES USED FOR THESE OPERATIONS SHOULD BE MADE HIGHLY VISIBLE WITH APPROPRIATE EQUIPMENT, SUCH AS FLASHING LIGHTS, ROTATING BEACONS, FLAGS, SIGNS, OR ARROW PANELS.
- 2. SHADOW VEHICLE 2 SHOULD BE EQUIPPED WITH AN ARROW PANEL AND TRUCK MOUNTED ATTENUATOR (TMA). AN APPROPRIATE LANE CLOSURE SIGN SHOULD BE PLACED ON SHADOW VEHICLE 2 SO AS NOT TO OBSCURE THE ARROW PANEL.
- 3. SHADOW VEHICLE 1 SHOULD BE EQUIPPED WITH AN ARROW PANEL AND TRUCK-MOUNTED ATTENUATOR (TMA).
- 4. SHADOW VEHICLE 2 SHOULD TRAVEL AT A VARYING DISTANCE FROM THE WORK OPERATION SO AS TO PROVIDE ADEQUATE SIGHT DISTANCE FOR TRAFFIC APPROACHING FROM THE REAR.
- 5. WHEN ADEQUATE SHOULDER WIDTH IS NOT AVAILABLE, SHADOW VEHICLE 2 SHOULD BE ELIMINATED.
- 6. ON HIGH-SPEED ROADWAYS, A THIRD SHADOW VEHICLE SHOULD BE USED (i.e., VEHICLE 3 ON THE SHOULDER (IF PRACTICAL), VEHICLE 2 IN THE CLOSED LANE, AND VEHICLE 1 IN THE CLOSED LANE).
- 7. ARROW PANELS SHALL BE AS A MINIMUM TYPE B,60" X 30" IN ACCORDANCE WITH THE CRITERIA PRESENTED IN THE MUTCD.
- 8. WORK SHOULD NORMALLY BE DONE DURING OFF-PEAK HOURS.
- 9. VEHICLE-MOUNTED SIGNS SHOULD BE MOUNTED WITH THE BOTTOM OF THE SIGN LOCATED AT A MINIMUM HEIGHT OF 48" ABOVE THE PAVEMENT AND SHALL NOT BE OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.
- 10. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

MOBILE OPERATIO



NOTE: USE OF CHANGEABLE MESSAGE SIGN IS OPTIONAL

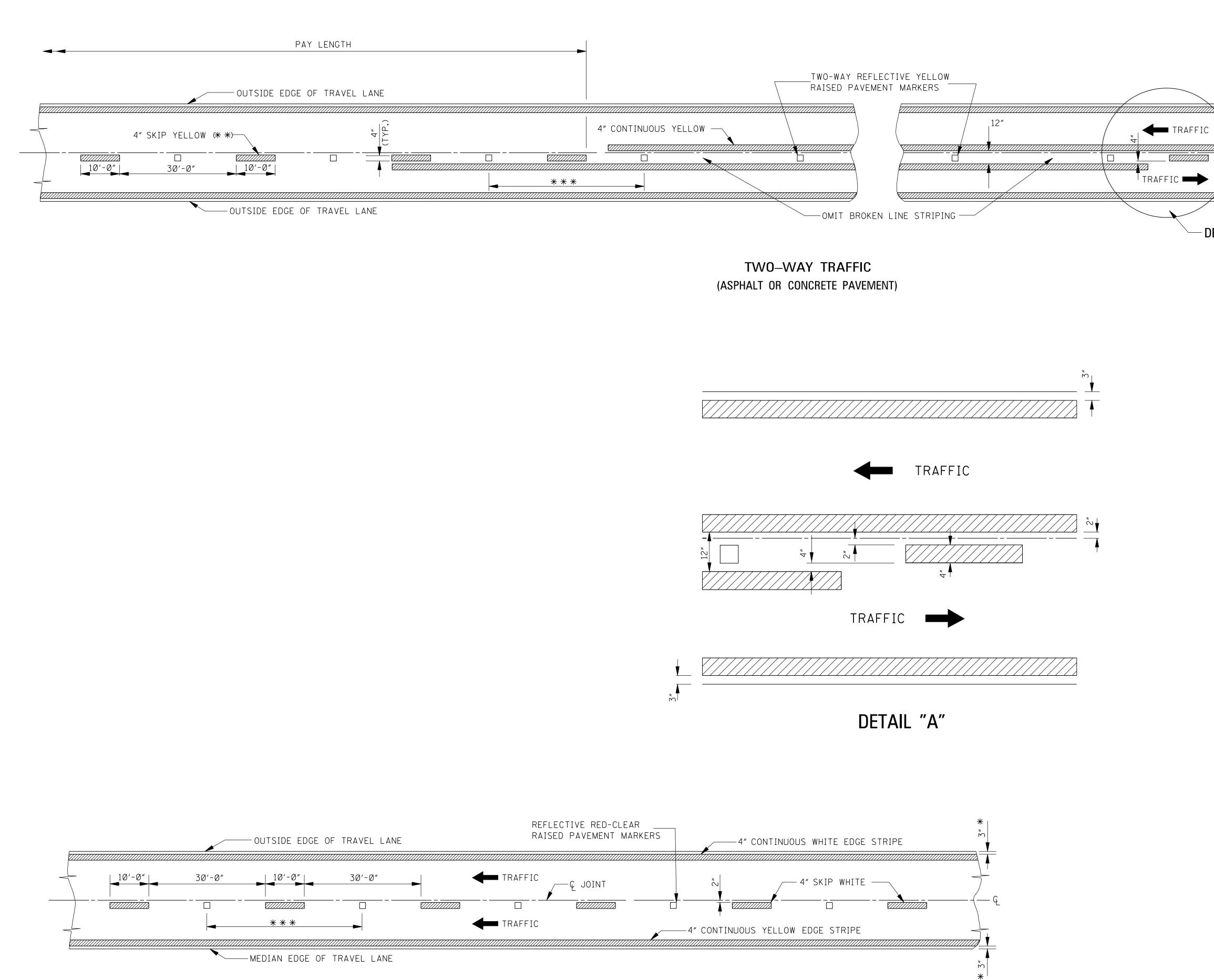
MOBILE OPERA

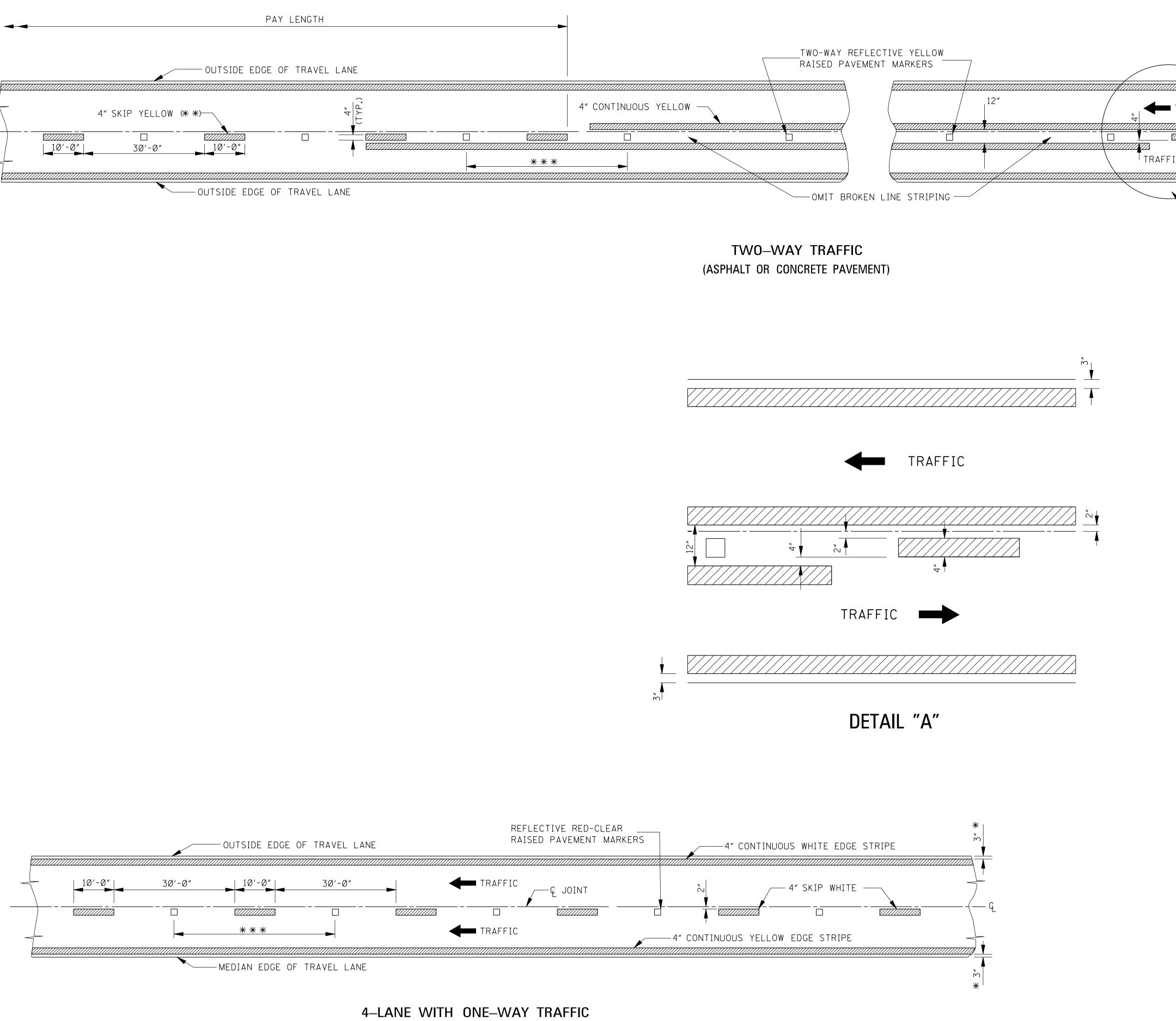
NOTES FOR TWO-LANE OPERATION:

- 1. WHERE PRACTICAL AND WHEN NEEDED, THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS. IF THI NOT BE DONE FREQUENTLY, AS AN ALTERNATIVE, A "DO NOT PASS" SIGN PLACED ON THE REAR OF THE VEHICLE BLOCKING THE LANE.
- TO TERRAIN, PAINT DRYING TIME, AND OTHER FACTORS. SHADOW VEHICL ARE USED TO WARN TRAFFIC OF THE OPERATION AHEAD. WHENEVER ADE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, THE SHADOW VEHICLE SHOULD MAINTAIN THE MINIMUM DISTANCE AND PROCEED AT THE SAME THE WORK VEHICLE. THE SHADOW VEHICLE SHOULD SLOW DOWN IN ADVAN OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE. OR OPPOSING TRAFFIC MAY BE USED. POLICE PATROL CARS MAY BE USE AND MAY BE USED ON THE WORK VEHICLE. VEHICLES SHALL BE EQUIPPED WITH TWO HIGH-INTENSITY FLASHING LIGHTS MOUNTED ON THE REAR, ADJACENT TO THE SIGN. SHADOW AND W VEHICLES SHALL DISPLAY FLASHING OR ROTATING BEACONS BOTH FORWA TO THE REAR. AT A MINIMUM HEIGHT OF 48" ABOVE THE PAVEMENT AND SHALL NOT BE EQUIPMENT OR SUPPLIES. SIGN LEGENDS SHALL BE COVERED OR TURNED
- 2. THE DISTANCE BETWEEN THE WORK AND SHADOW VEHICLES MAY VARY AC 3. ADDITIONAL SHADOW VEHICLES TO WARN AND REDUCE THE SPEED OF ON 4. A TRUCK-MOUNTED ATTENUATOR (TMA) SHOULD BE USED ON THE SHADOW 5. THE WORK VEHICLE SHALL BE EQUIPPED WITH BEACONS, AND THE SHADOW 6. VEHICLE-MOUNTED SIGNS SHOULD BE MOUNTED WITH THE BOTTOM OF TH

- WORK IS NOT IN PROGRESS.
- 7. ARROW BOARD TO BE USED IN CAUTION MODE.
- 8. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEAS FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE MAINTENANCE OF TRAFFIC.

	STATE	PROJECT NO.
ONS ON TWO-LANE ROAD	MISS.	
TRUCK-MOUNTED HIGLE IN TRUCK-MOUNTED TRUCK-MOUNTED ATTENUATOR USE SIGN SH USE SIGN SH USE SIGN SH TO TYPE OF OPTIONAL SIGN FOR SHORT DURATION OPERATION	IAPE AND ROPRIATE	
S CAN MAY BE		
CCORDING		
ES QUATE		
SPEED AS		
NCE		
ICOMING ED FOR THIS PURPOSE.		
VEHICLE		
W		
VORK ARD AND	ENT OF TRANS Design division Dard plan	
HE SIGN LOCATED	ROL PLAN	
SURED FROM VIEW WHEN)	WORKING NUMBER
BID FOR ISSUE DATE: AUGUS	T Ø1,2017	TCP-9 SHEET NUMBER - 6359



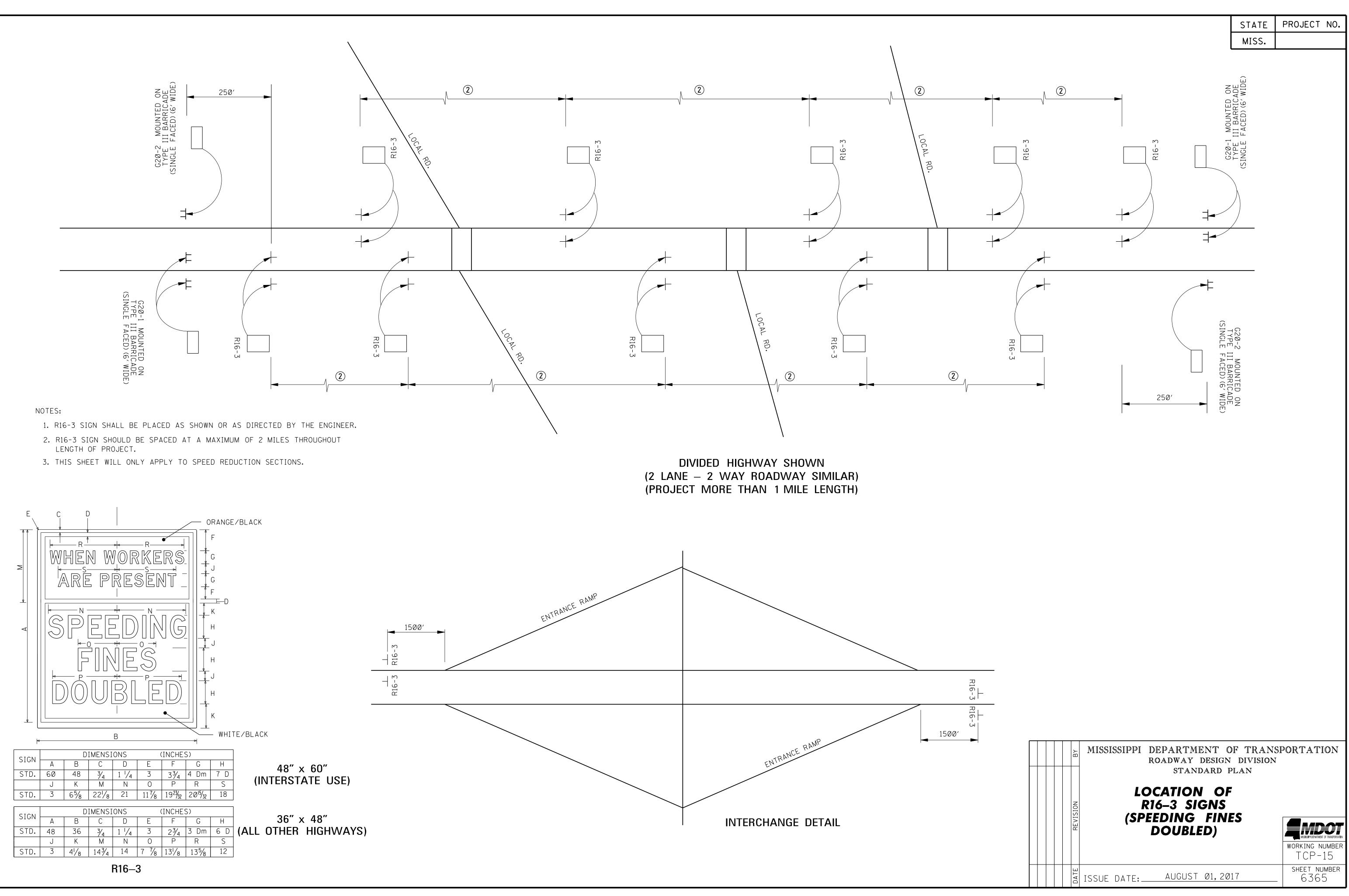


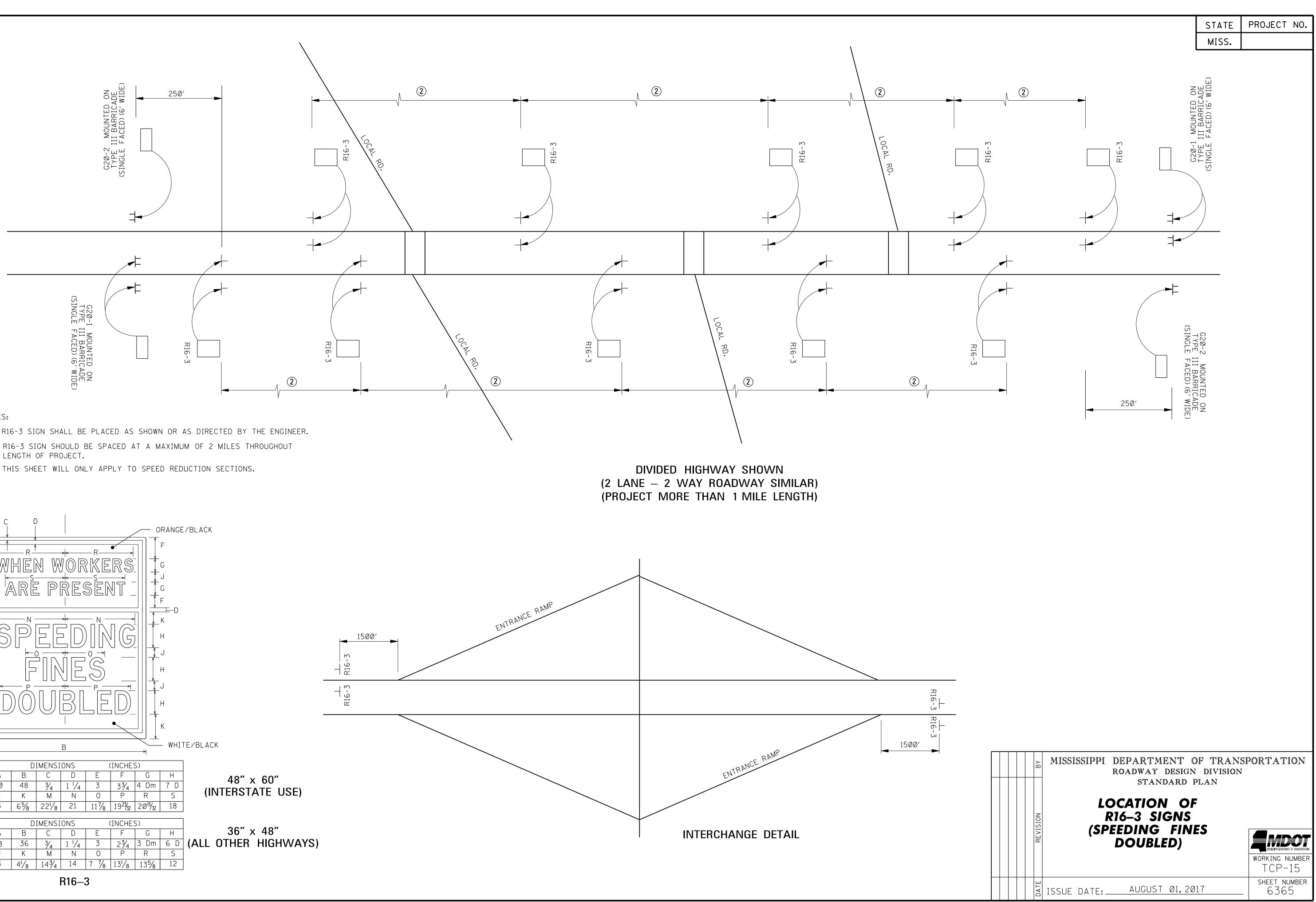
STATE | PROJECT NO. MISS. // 4" CONTINUOUS WHITE EDGE STRIPE (***) YELLOW (* *)— --Ę JOINT ____4" CONTINUOUS WHITE EDGE STRIPE (**) - DETAIL "A" DIRECTION OF TRAFFIC GENERAL NOTES: * 1. 3" UNLESS SHOWN ELSEWHERE ON THE PLANS. * * 2. EDGE STRIPE SHALL BE SAME MATERIAL AS LANE-LINE STRIPE (PAINT OR TAPE AS INDICATED IN PAY ITEMS). 3. REFLECTIVE RAISED PAVEMENT MARKERS TO BE USED IF TEMPORARY MARKINGS ARE TO REMAIN IN PLACE OVER 3 MONTHS * * * 4. SPACING OF REFLECTIVE RAISED PAVEMENT MARKERS IS AS FOLLOWS: urban area RURAL AREA (ft-in) (ft-in) TANGENT SECTIONS 40'-0" 80′-0″ HORIZONTAL CURVES 40'-0" 40'-0" INTERCHANGE LIMITS 40'-0" + 40'-0" + NOTE: ON THE MAIN FACILITY, REFLECTIVE RED-CLEAR RAISED PAVEMENT MARKERS ON A 40'-0" SPACING WILL BE REQUIRED ON LANE-LINE(S) THROUGH ALL INTERCHANGE AREAS BEGINNING 1000' IN ADVANCE (IN DIRECTION OF TRAFFIC) OF THE EXIT RAMP TAPER AND CONTINUING THROUGH THE INTERCHANGE TO THE

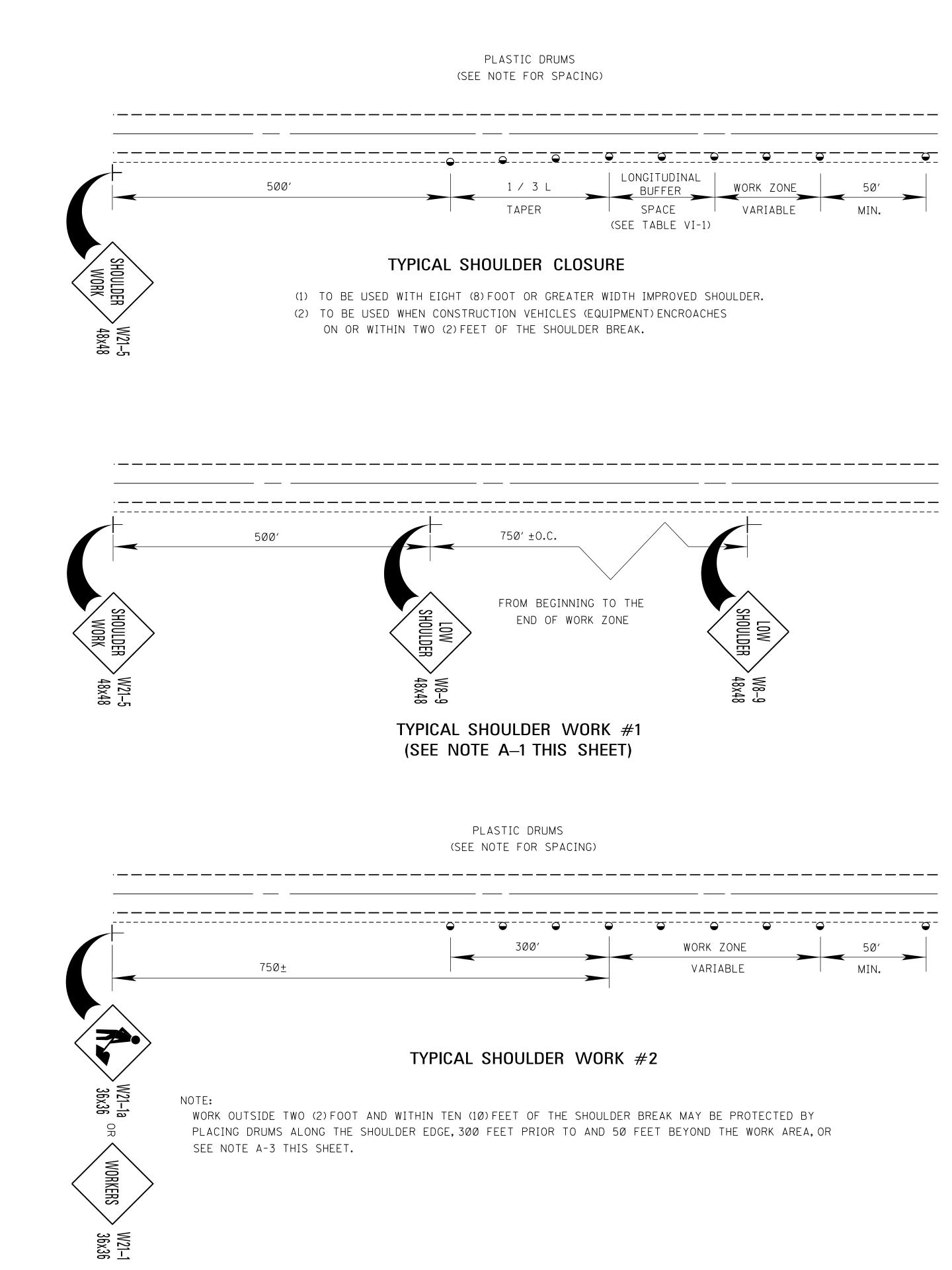
> 5. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE REFLECTIVE RAISED PAVEMENT MARKERS AS LISTED IN THE MDOT "APPROVED SOURCES OF MATERIALS."

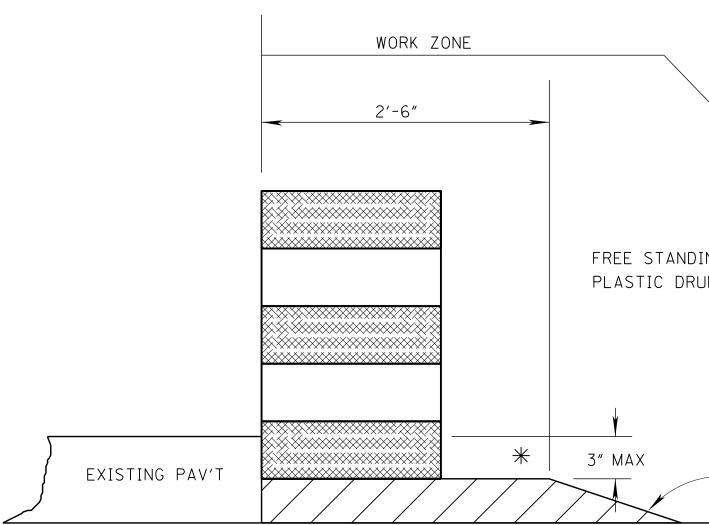
END OF THE ENTRANCE RAMP TAPER.

	BΥ	MISSISSIPPI DEPARTMENT OF TRANS ROADWAY DESIGN DIVISION STANDARD PLAN	PORTATION
	ISION	TEMPORARY STRIPING FOR TRAFFIC CONTROL	2
	REV	2–LANE AND 4–LANE DIVIDED HIGHWAYS	MISSISSIPI DEPARIMENT OF TRANSPORTATION
			working number TCP-13
	DATE	ISSUE DATE: AUGUST Ø1, 2017	SHEET NUMBER
		TE REVISION	Image: Control of the second strand stran









GRANULAR MATERIAL REQUIRED (SAME CLASSIFICATION AS SHOULDER MATERIAL, SEE TYPICAL SECTIONS)

DETAIL OF DRUM PLACEMENT AT PAVEMENT EDGE DROP-OFF

NOTES:

₭ A. PAVEMENT EDGE DROP-OFF

- 1. IF LESS THAN TWO AND ONE QUARTER (2.25) INCHES-NO PROTECT OF WORK ZONE SHOULDER AND A LOW SHOULDER SIGN (W8-9) AT
- 2. TWO AND ONE QUARTER TO THREE INCHES-PLACE DRUMS, VERTICA OF 50 MILES PER HOUR OR GREATER. CONES MAY BE USED IN PL TANGENT SECTIONS WITH SPEEDS LESS THAN 50 MILES PER HOUR FOR TAPERS SHOULD BE IN ACCORDANCE WITH THE M.U.T.C.D. (1 /
- 3. GREATER THAN THREE (3) INCHES-POSITIVE SEPARATION OR WEDGE DISTANCE BETWEEN THE EDGE OF TRAVEL LANE AND DROP-OFF, THE
- 4. FOR TEMPORARY CONDITIONS, DROP-OFFS GREATER THAN THREE (FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS
- 5. LESSER TREATMENTS THAN THOSE DESCRIBED ABOVE MAY BE CON

B. DRUM SPACING

- 1. TANGENTS = 2 X S
- 2. TAPERS = L / 3
- WHERE L = S X W
- L = TAPER LENGTH IN FEET
- S = SPEED IN MPH (POSTED OR 85 PERCENTILE)
- W = WIDTH OF OFFSET IN FEET
- C. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET SHALL BE PAI TABLE VI-1. GUIDELINES FOR LENGTH OF

LONGITUDINAL BUFFER SPACE

★★ SPEED (MPH)	LENGTH (FEET)
20	35
25	55
30	85
35	12Ø
40	17Ø
45	22Ø
5Ø	28Ø
55	335
60	415
65	485

★ ★ POSTED SPEED, OFF-PEAK 85 PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH.

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4:1 OR FLATTER SLOPE		
K V		
ORIGINAL GROUND LINE	Ξ	
TION REQUIRED.PLACE A SHOULDER WORK SIGN (W21-5)500 F THE BEGINNING AND THROUGHOUT THE WORK ZONE @ (750'+0.		
AL PANELS OR BARRICADES EVERY 100 FEET ON TANGENT SE ACE OF DRUMS,PANELS,AND BARRICADES DURING DAYLIGHT H R AND FOR CURVES,DEVICES SHOULD BE PLACED EVERY 50 F 3 L,WHERE L IS THE TAPER LENGTH IN FEET.)	HOURS. FOR	
E WITH 4:1 OR FLATTER SLOPE NEEDED.IF THERE IS EIGHT (HEN DRUMS, PANELS OR BARRICADES MAY BE USED.	8)FEET OR MORE	
3)INCHES MAY BE PROTECTED WITH DRUMS,VERTICAL PANELS BEING DONE IN THE DROP-OFF AREA.	S OR BARRICADES	
NSIDERED FOR LOW-VOLUME LOCAL STREETS.		
ID FOR UNDER MAINTENANCE OF TRAFFIC.		
ID FOR UNDER WAINTENANCE OF TRAFFIC.		
MISSISSIPPI DEPART ROADWAY	MENT OF TRANS Y DESIGN DIVISION	
STA	NDARD PLAN	
		TCP-16
AUGUS	ST Ø1,2017	SHEET NUMBER _ 6366

DESCRIPTION OF SHEETS SPECIAL DESIGN SHEETS ~ BRIDGE DRAWINGS

DETAILED INDEX (BRIDGE)

I-59 ACROSS CHUNKY RIVER AT STA. 6+30 LT. LN. I-59 ACROSS CHUNKY RIVER LAYOUT, GENERAL NOTES & ESTIMATED QUANTITIES SPAN NO. IL HYDRODEMOLITION & DECK REPAIR DETAILS JOINT REPAIR DETAILS RAILING & OVERHANG REPAIR DETAILS FRP BEAM REPAIR DETAILS GENERAL EPOXY REPAIR DETAILS

SPECIAL DESIGN SHEETS INFORMATION PLANS

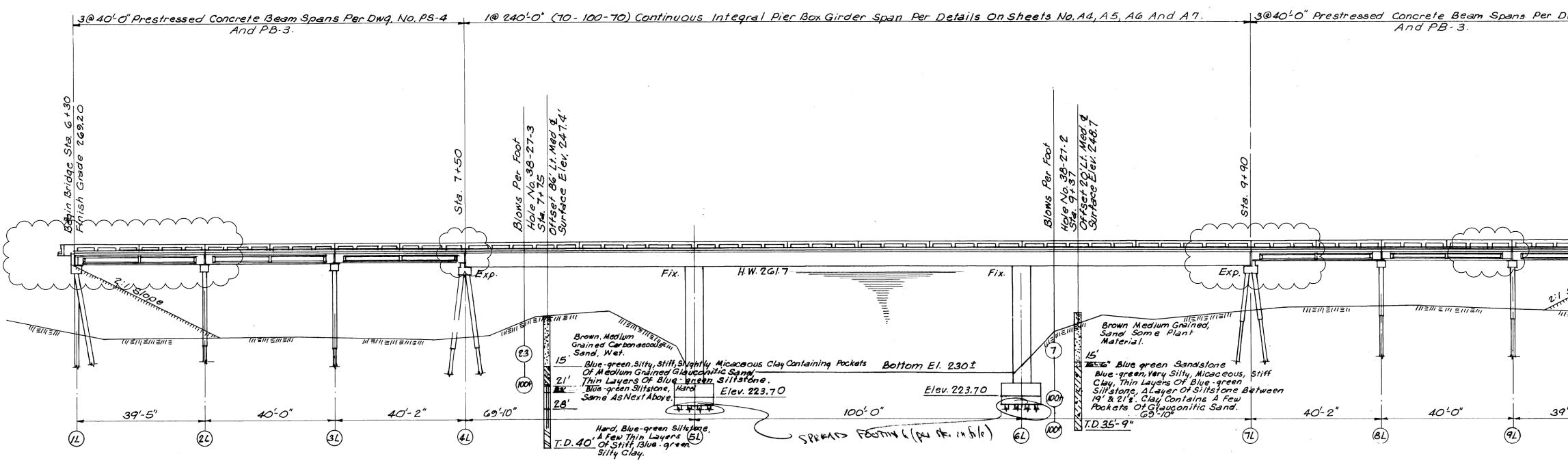
INFORMATION PLANS ONLY (ORIGINAL PROJECT NO. I-59-3(13)136)

WORKING NUMBER	SHEET NUMBER
DI-BR-1	8001
1 OF 6	8002
2 OF 6	8003
3 OF 6	8004
4 OF 6	8005
5 OF 6	8006
6 OF 6	8007

SHEET NUMBER WORKING NUMBER

8008 - 8017

			PROJECT NO. P-5059-38(230)
	BRIDGE DIVISION REVISIONS		
DATE	SHEET NO.	BY	
l			
	MISSISSIPPI DEPARTI BRIDGE AT S DETAIL	TA. 6+30	LT. LN.
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THE OF TRANSPORTATION THE OF TRANSPORTATION THE OF TRANSPORTATION TO F TRANSPORTATION	PROJECT NUMBER: MRF	CKERPaul Dees UE DATE 2020-05-12	working number DI-BR-1 Sheet number E. 8001



GENERAL NOTES:

Specifications: Mississippi Standard Specifications For Road And Bridge Construction, 2017.

No change of plans will be permitted except by the approval of the Director of Structures, State Bridge Engineer provided such changes

will not be cause for contract price adjustment. Prior to the construction, all dimensions of the existing structure

shall be field verified by the Contractor.

The Contractor shall be responsible for adjusting the elements of the repair to ensure proper fit with the existing structure. Prior to construction, the Contractor shall submit a proposed hydrodemolition plan and

a containment plan plan prior to beginning work to be approved by the Director of Structures, State Bridge Engineer. All details are based on the dimensions shown on the original plans for the existing

structure. Work for which no pay item is provided in the plans will not be paid for directly and compensation therefor will be included in the

prices and payments for bid items.

Any damage that occurs to the existing structure during the duration of this project shall be repaired to the satisfaction of the Engineer by the Contractor at no additional cost to the State.

Care should be taken to ensure that no debris falls into the hydraulic crossing below.

All material removed from the bridge shall become the property of the Contractor and shall be removed from the construction site Temporary precast barriers shall be anchored to the bridge deck when there is

less than eight (8) feet of bridge deck behind the rail. The Contractor shall submit proposed anchor details, including design calculations stamped by a Mississippi Registered Professional Engineer, prior to beginning work to be approved by the Director of Structures, State Bridge Engineer. After removal of the temporary precast barriers, all anchor holes shall be cleaned and filled with non-shrink "Sure-Grip Grout" (The Dayton Sure-Grip and Shore Co.), "Supreme Grout" (Gifford-Hill & Co., Inc.), or an approved equal, applied according to the Manufacturer's directions.

Concrete for the bridge railing and overhang repairs shall be Class "AA". The Contractor shall submit a proposed demolition plan for both the railing and deck repairs prior to beginning work to be approved by the Director of Structures, State Bridge Engineer.

Bridge railing shall have a class 2 rubbed finish, this shall be considered an absorbed item of work and will not be paid for directly. All transverse reinforcement extending from deck shall remain in place.

All concrete dimensions and reinforcing steel shall be in accordance with the original plans unless otherwise noted. At least one (1) lane of Southbound traffic on I-59 shall remain open at all times.

Contractor shall replace any fencing that is damaged or removed with in-kind materials and in conformance with the MDOT Standard Drawings. This shall be considered an absorbed item of work.

Contractor shall re-grass any and all areas that are distrubed to perform the required work at no additional cost to the state.

SCOPE OF WORK:

- 1. Contractor shall set up the containment area for hydrodemolition. 2. Perform hydrodemolition in accordance with the details on
- sheet no.' 8003.
- 3. Perform bridge railing and overhang removal in accordance with the details on sheets no. 8003 & 8005. This shall include the railing, overhang and end post for the full length of span no. I on the left shoulder, the railing and overhang as noted in the details on span no. 6 on the left shoulder, and the end post at end bent on. IOL on the left shoulder.
- 4. Perform bridge deck repairs & bridge railing and overhang replacements in accordance with the details on sheets no. 8003 & 8005.
- 5. Perform bridge deck concrete overlay in accordance with the details on sheet no. 8003.
- 6. Repair damaged concrete areas and other areas that received fire damage with epoxy mortar in accordance with the details on sheet no. 8007
- 7. Repair Beam No. 1 in Span No. 1 with epoxy mortar and FRP wrap in accordance with the details on sheet no. 8006.
- 8. Perform joint repair on End Bent No. 1, Int. Bent No. 2 and
- Int. Bent No. 4 in accordance with the details on sheet no. 8004. 9. Clean caps, railing, deck and any other bridge and approach members that received fire damage.

MAINTENANCE OF TRAFFIC:

Maintain Traffic in accordance with Section 618 2017 Edition of the Standard Specifications For Road and Bridge Construction, the latest edition of the "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - PART 6" and the Traffic Control Plans included in these plans.

CONCRETE NOTES:

Bridge deck finish shall match existing texture. Bridge deck shall be tine finished in accordance with Sections 501 and 804

of the Specifications. All existing concrete surfaces that will be in contact with new concrete shall be painted with a cement slurry specifically designed to bond new

concrete to old.

approval by the Materials Division. Reinforcing steel shall be ASTM A615, Grade 60, unless otherwise noted. Bar Bending Details Shall Be In Accordance With "Manual Of Standard Practice For Detailing Reinforced Concrete Structures" (ACI 315R-04). Reinforcement Order Lists And Required Placing Plans Shall Be Furnished In Accordance With Section 805 Of The Mississippi Standard Specifications. Partial Submittals Are Not Acceptable.

WATERPROOFING ADMIXTURE:

The bridge deck concrete will require a waterproofing admixture in accordance with Section 713.02.4 of the Standard Specifications.

BRIDGE CLEANING NOTES:

Bridge cleaning should be performed by removing all large debris by hand and then by pressure washing the areas covered in soot from the fire damage to the satisfaction of the Project Engineer. The pressure washer shall be able to maintain 3,500 psi of pressure.

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Concrete for the slab shall be in accordance with Special Provision 907-804. The mix design shall be furnished by the Contractor for

SPECIAL PROVISIONS REQUIRED:

Removal of Bridge Deck, Hydrodemolition 907-202
Removal of Approach Slab, Hydrodemolition 907-202
Bridge Deck Overlay Concrete
Joint Repair
Preformed Joint Seal

INFORMATION PLANS

Original project no. I-59-3(13)136, see sheets no. 8008-8017.

	ESTIMATED QUANTITIES		
M NO.	DESCRIPTION	QUANTITY	UNIT
8001	Removal of Bridge Deck, Hydrodemolition	45	SY
B266	Removal of Approach Slab, Hydrodemolition	24	SY
0001	Bridge Deck Overlay Concrete	5	СҮ
4002	Joint Repair	174	LF
4001	Preformed Joint Seal, Type I	58	LF
4 <i>002</i>	Preformed Joint Seal, Type II	29	LF
8001	Saw Cut, Type I	116	LF
8002	Saw Cut, Type II	58	LF
PP003	Bridge Repair, Removal of Bridge Deck and Approach Slab	32	SF
PP003	Bridge Repair, Epoxy Repair	124	SF
PP003	Bridge Repair, FRP Wrap, Per Plans	44	SF
PPOO8	Bridge Repair, Removal of Bridge Railing and Overhang, Per Plans	70	LF
PP008	Bridge Repair, New Construction of Bridge Railing and Overhang, Per Plans	70	LF

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CONTRACTOR SUBMITTALS:

Prior to fabrication and construction. the following shall be submitted to the Director of Structures, State Bridge Engineer through the Project Engineer for approval. No work shall begin until all submittals have been authorized by the Director of Structures, State Bridge Engineer.

DEMOLITION PLAN SUBMITTAL:

The Contractor shall submit a proposed demolition plan associated with the work items necessary to perform hydrodemolition and the removal of the overhang, bridge railing section's and railing end posts prior to beginning work and is to be approved by the Director of Structures, State Bridge Engineer. FRP SUBMITTAL:

The Contractor shall furnish all submittals indicating the materials, tools, equipment, transportation, necessary storage, labor, installation plan, and supervision required for the application of the composite or polymer system to the Director of Structures, State Bridge Engineer prior to construction. TEMPORARY PRECAST BARRIER SUBMITTAL:

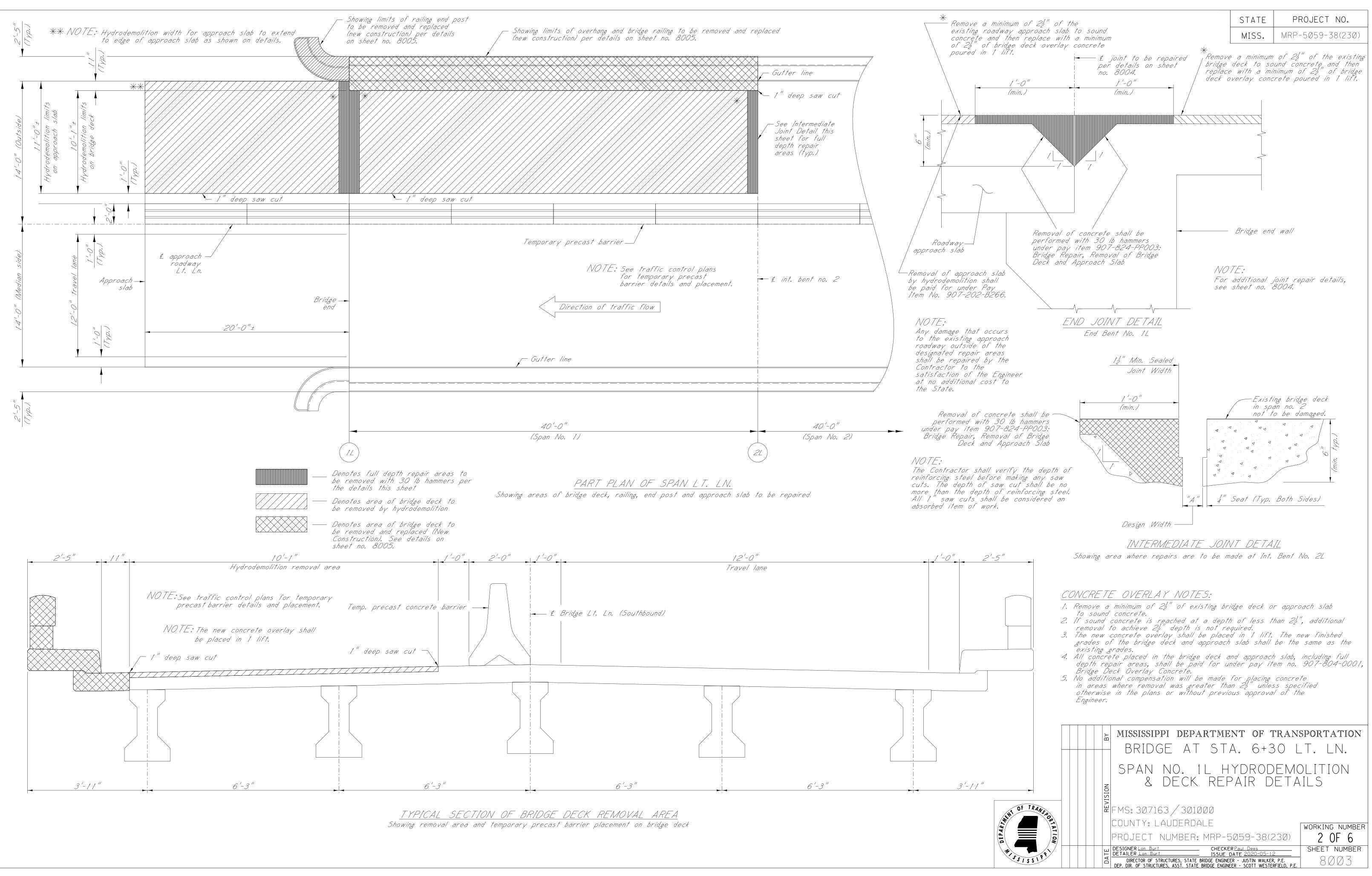
Temporary precast barriers, when required, shall be anchored to the bridge deck. The Contractor shall submit proposed anchor details, including design calculations stamped by a Mississippi registered Professional Engineer prior to beginning work to be approved by the Director of Structures, State Bridge Engineer. After removal of the temporary barriers, all anchor holes shall be cleaned and filled with non-shrink:

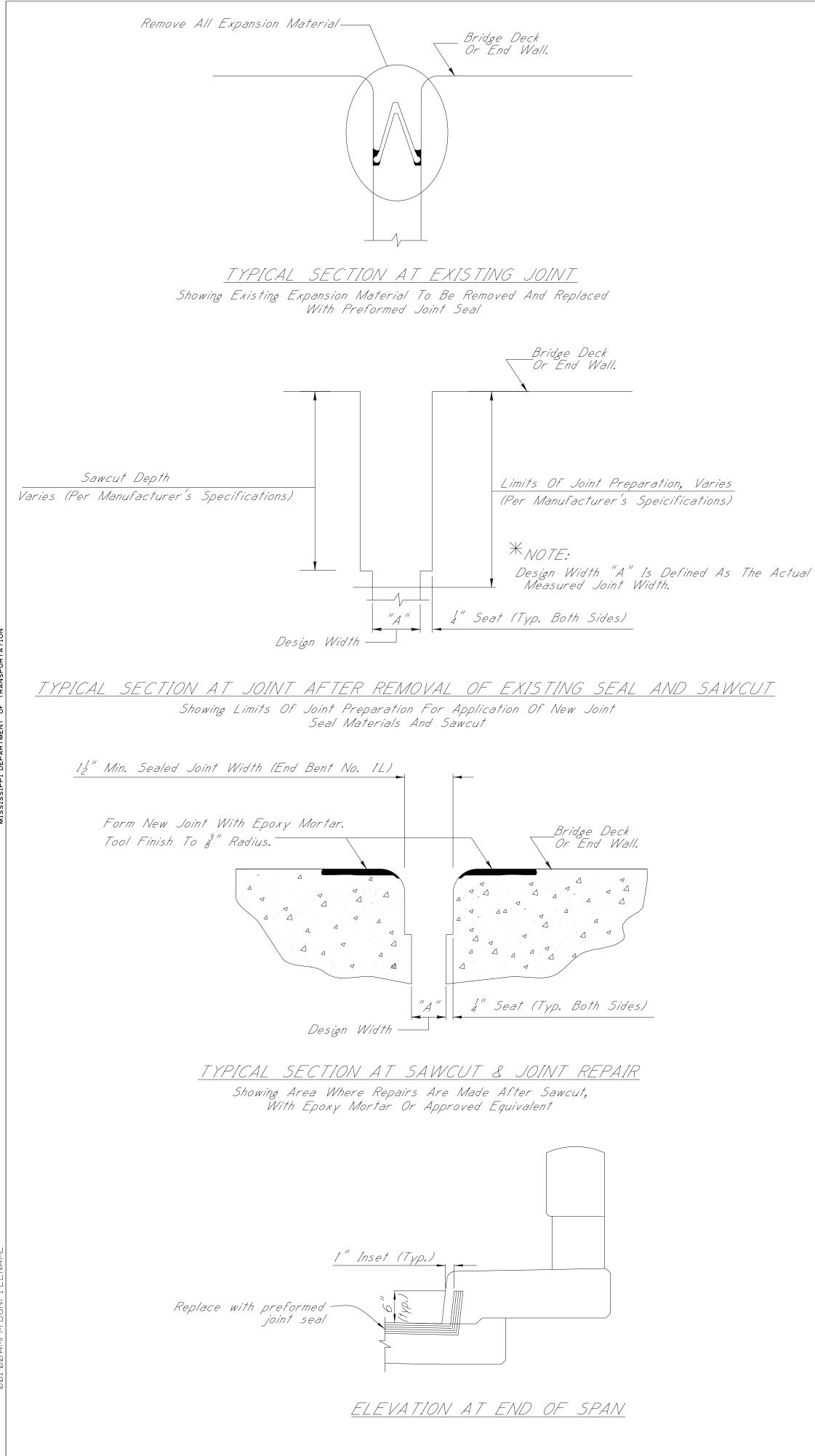
"Sure-Grip Grout" (The Dayton Sure-Grip and Shore Co.) "Supreme Grout" (Gifford-Hill & Co.)

or an approved equal, applied according to the Manufacturer's specifications. REINFORCEMENT SUBMITTAL: Reinforcement order lists and required placing plans shall be submitted to the Director

of Structures, State Bridge Engineer in accordance with Section 805 of the Mississippi Standard Specifications. Partial submittals are not acceptable.

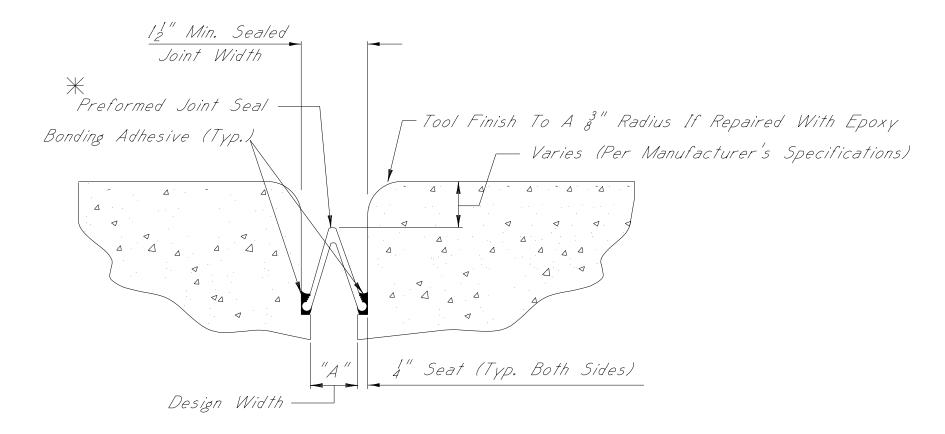
		BRIDGE AT STA. 6+30 LT. LN.
		I-59 ACROSS CHUNKY RIVER LAYOUT, GENERAL NOTES & ESTIAMTED QUANTITIES
OF TRANSPORTATION		FMS: 307163/301000 COUNTY: LAUDERDALE PROJECT NUMBER: MRP-5059-38(230) 1 OF 6
III SSISSIPPI		DESIGNER Lon Burt CHECKER Paul Dees SHEET NUMBER DETAILER Lon Burt ISSUE DATE 2020-05-12 SHEET NUMBER DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E. BØØØ2 DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E. BØØØ2





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<u>TYPICAL SECTION AT SAWCUT & SEALED JOINT</u> Showing Sealed Joint After Sawcut And Repair With Epoxy Mortar

**NOTES:*

1. The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:

A. Silicoflex Joint Sealing System Manufactured By R.J. Watson, Inc. In Alden, NY www.rjwatson.com

B. Wabo SPS Joint System Manufactured By Watson Bowman Acme Corporation In Amherst, NY www.wbacorp.com

C. Silspec SSS Silicone Strip Seal Manufactured By SSI Commercial & Highway Construction Materials www.ssicm.com

- 2. For Estimating Purposes, The RJ Watson Silicoflex Joint Sealing System Was Selected. However, Should Another Supplier Be Chosen, It Is The Contractor's Responsibility To Ensure That The Manufacturer's Recommendations Are Followed For Joint Preparation, Installation Depths And Widths, Adhesive Setting Times, And Any Other Variances Between The Specifications Provided By The Manufacturers. A Manufacturer Representative Shall Be Present At The Time Joint Sealing Begins To Ensure That The Contractor Is Properly Schooled In Installation Of The Joint Material.
- 3. Joints Shall Be Sealed At Their Design Widths, Dimension "A", Which Is Defined As The Actual Width Of The Joint Opening. This Width Does Not Account For The 4" Seat Required On Both Sides Of The Joint. Preformed Joint Seal, Type I, Shall Be Used For Design Widths Less Than 2". Preformed Joint Seal, Type II, Shall Be Used For Design Widths Greater Than or Equal To 2", With The Maximum Design Width Being 22". In Cases Where Design Widths Are Greater Than 22", Another Type Of Expansion Material Shall Be Required As Directed By The Director Of Structures, State Bridge Engineer. It Is The Contractor's Responsibility To Ensure That The Size Selected Is Appropriate For The Width Of The Joint.

22" Min. Sealed Joint Width (Int. Bent No. 4L)	◄
Form New Joint With Epoxy Mortar. Tool Finish To ³ / ₈ " Radius.	Bridge Deck Or End Wall.
	4" Seat (Typ. Both Sides)
Design Width	
TYPICAL SECTION AT SAWC	<u>OUT & JOINT REPAIR</u>

Showing Area Where Repairs Are Made After Sawcut, With Epoxy Mortar Or Approved Equivalent

NOTES ON ASSOCIATED ITEMS OF WORK:

907-808-A002	JOINT	REPAIR	

Description:	Shall Include The Work Necessary To Repair Joints In Preparation For The Placement Of New Expansion Material, As Designated In The Detail Drawings Provided. Epoxy Mortar Shall Also Be Included Under This Item Of Work. Removal Of Existing Silicone Sealed, Compression, AC Sealed Joint Materials And Full Depth Cleaning Of The Open Joint From All Dirt And Debris Will Not Be Paid For Directly And Shall Be Considered As Absorbed Under This Item Of Work. All Other Requirements Shall Be In Accordance With The Applicable Provisions Of Section 808 Of The Specifications And Any Other Sections Specified Therein.
Basis Of Payment:	The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint.
907-823-B001 SAV	N CUT, TYPE I & 907-823-B002 SAW CUT, TYPE II
Description:	The Saw Cut Depth Shall Be Equivalent To The Installation Depth Required By The Manufacturer's Specifications. The Saw Cut Type Shall Be The Same As The Preformed Joint Seal Selected.
Basis of Payment:	The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint. It Is The Contractor's Responsibility To Ensure That The Proper Depth Is Selected Based On The Manufacturer's Recomendations.
	FORMED JOINT SEAL, TYPE I FORMED JOINT SEAL, TYPE II
	Shall Include The Manufacturer's Required Joint Preparation Including Sandblasting Both Sides Of The Joint And Blowing The Joint Free Of Debris With Compressed Air And Placement Of The New Preformed Joint Seal
Basis Of Payment:	The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Centerline Joint.

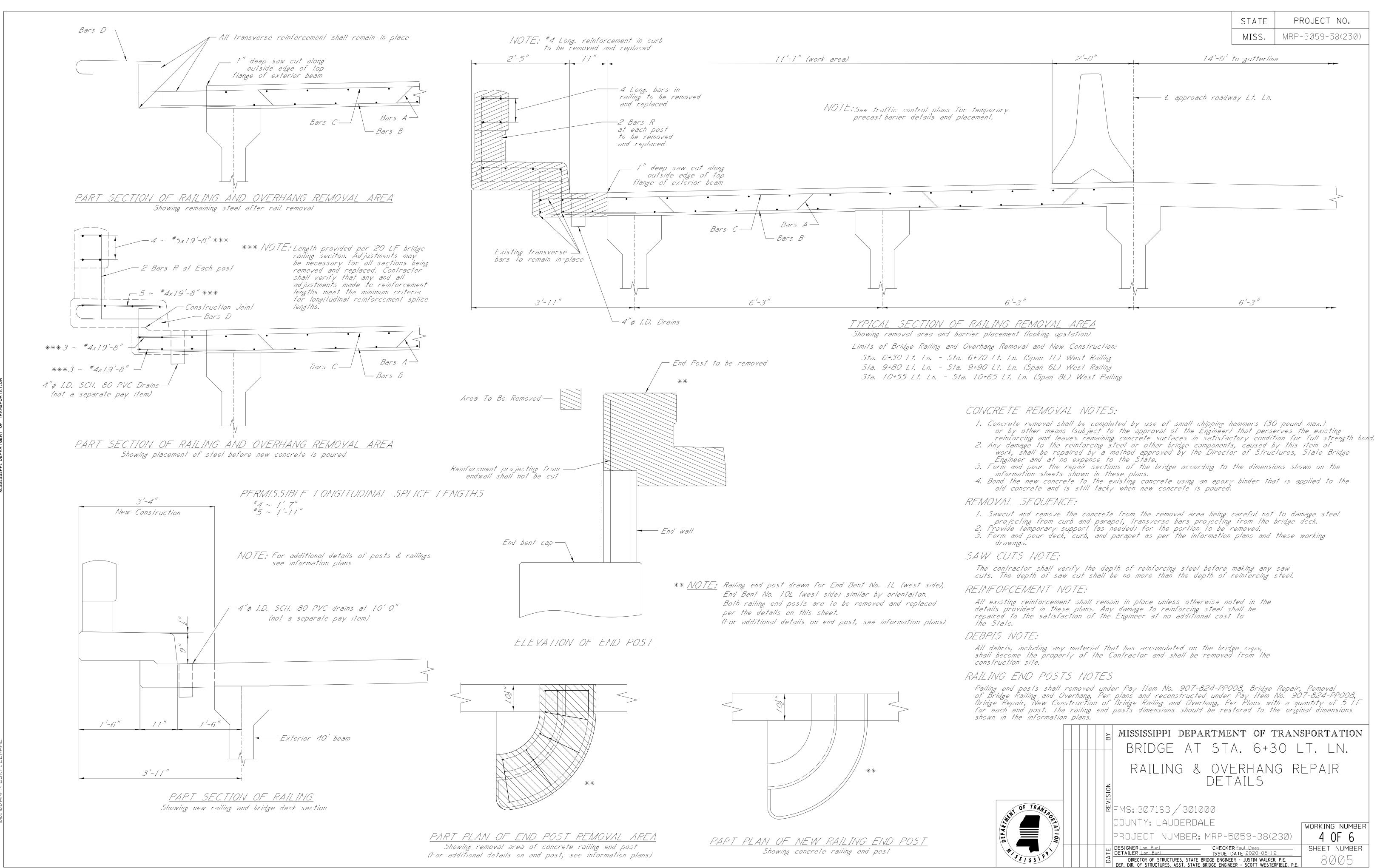
EPOXY MORTAR AND POLYMER CONCRETE NOTES:

Either Epoxy Mortar Or Polymer Concrete May Be Used. Guidelines For Selection Of Materials Can Be Found In Section 808 of the Specifications.

GENERAL NOTES:

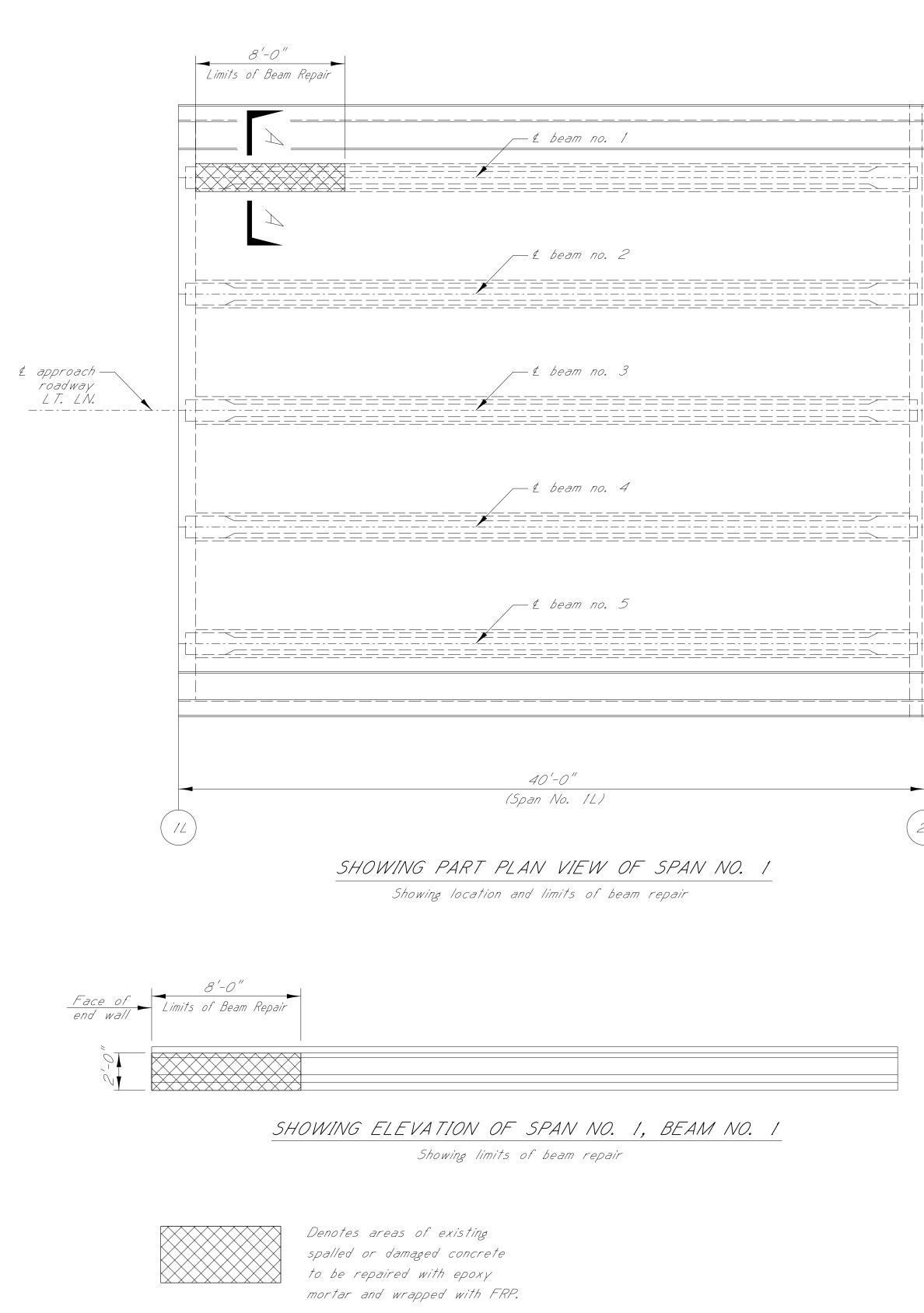
- 1. Specifications: Mississippi Standard Specifications For Road And Bridge Construction, 2017.
- No Change Of Plans Will Be Permitted Except By Written Approval Of The Director Of Structures, State Bridge Engineer. Minor Changes To Detail Of Design Or Construction Procedure May Be Authorized By The Bridge Engineer Provided Such Changes Will Not Be Cause For Contract Price Adjustment.
 Work For Which No Pay Item Is Provided In The Proposal Will
- 3. Work For Which No Pay Item Is Provided In The Proposal Will Not Be Paid For Directly And Shall Therefore Be Considered An Absorbed Item of Work.

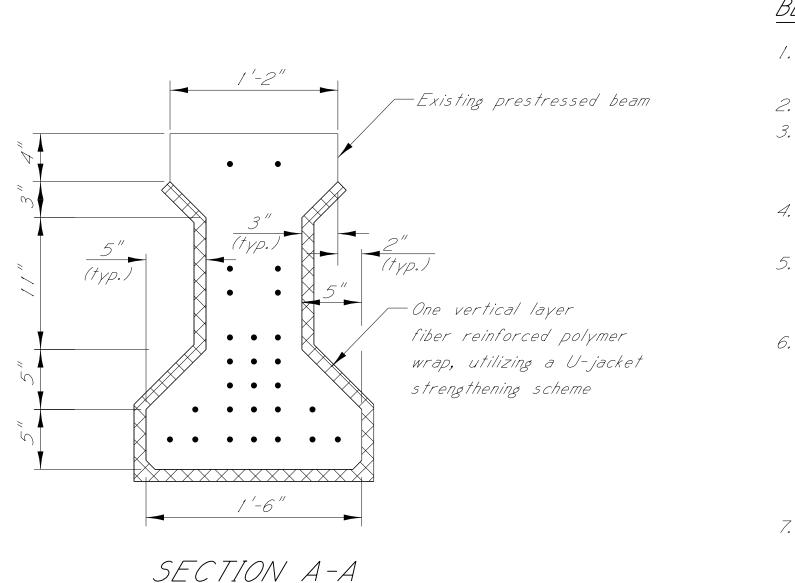




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FRP WRAP NOTES:

- I. FRP wrap shall be one of the following products and shall be applied according to the manufacturer's recommendations:
 - a. "FRP Wrap" as manufactured by Fyle Co. LLC, www.aegion.com/about/our-brands/fyfe
 - b. "FRP Wrap" as manufactured by BASF Building Systems LLC www.master-builders-solutions.basf.us c. "FRP Wrap" as manufactured by QuakeWrap Inc.
- www.quakewrap.com 2. The Contractor shall furnish all submittals indicating the materials,
 - tools, equipment, transportation, necessary storage, labor, installation plan and
- supervision required for the application of the composite or polymer system to the Director of Structures, State Bridge Engineer prior to construction.
- 3. Products shall be stored according the manufacturer's requirements and shall avoid contact with moisture, dust and chemical exposure.
- 4. All FRP composite systems shall be proprietary systems consisting of all associated fiber reinforcement and polymer adhesives/resins. FRP composites consisting of fiber reinforcement and polymers' provided by more than one manufacturer are not allowed.

5. The FRP composite system shall utilize carbon fiber reinforcement as the primary fiber

- material (primary structural component).
- 6. The FRP system shall be top coated with a coating approved by the FRP system supplier. The coating color shall be selected by the Project Engineer. 7. FRP wraps shall not be installed when the ambient temperature is below 40°F or above
- 130⁵F. In cold conditions, auxiliary heat may be applied to raise the ambient temperature to a suitable level. Clean heat sources shall be utilized for this purpose (e.g., electric or propane)
- that do not contaminate the substrate with carbonation. 8. FRP wraps shall not be installed when surface moisture is present on the substrate or when rainfall or condensation is anticipated in the work areas. If water leakage exists through cracks or concrete
- joints, water flow shall be stopped prior to FRP installation. 9. Resins (including primers and fillers) shall be mixed according to the FRP system manufacturer's installation instructions. All resin components shall be at a proper temperature and mixed in the manufacturer's prescribed mix ratio until there is a uniform and complete mixing of components. Resin components are often contrasting colors, so full mixing is achieved when color streaks are eliminated. Resins should be mixed for the Manufacturer's prescribed mixing time and visually inspected for uniformity of color.
- 10. A representative of the FRP wrap manufacturer must be present for sufficient time to assure that the Contractor is properly schooled in the installation of FRP wrap.
- 11. Prior to installation of FRP wraps, the Contractor shall repair concrete spall areas in accordance with the notes shown on this sheet.
- 12. All labor, materials, and surface preparation associated with the installation of FRP wraps, shall be included in pay item 907-824-PP003, Bridge Repair, FRP Wrap.
- 13. The fibrous reinforcement system shall have a minimum tensile force of 2.1 kips/in. in both directions. 14. The fiber wrap shall be bi-directional.

ADDITIONAL FRP WRAP NOTES:

In addition to the Manufacturer's requirements, the Contractor shall ensure the structural integrity and durability of the reinforced fiber wrap system by meeting the following acceptance guidelines:

- Small delaminations, less than 2 sq. in. each, are permissible as long as the delaminated area is less than 5% of the total laminate area and there are no more than 10 such delaminations per 10 sq. ft.
- Large delaminations', greater 'than 25 sq. in., can affect the performance of the installed system and shall be repaired by selectively cutting away the affected sheet and
- applying an overlapping sheet patch of equivalent plies; and
- Delaminations less than 25 sq. in. may be repaired by ply replacement.

Before repairing any delaminated areas, the Contractor shall submit a FRP repair procedure to the Director of Structures, State Bridge Engineer for review and approval.

BEAM EPOXY MORTAR REPAIR NOTES:

I. Repair all damaged concrete and spalled areas listed on this page and as directed by the Project Engineer.

2. All damaged or unsound concrete shall be removed from the repair area.

- 3. Damaged or spalled areas where pack rust has developed around or on reinforcement shall be blasted clean. Hammers used to remove damaged concrete shall be limited to 15 pounds on beam.
- 4. All areas where damaged concrete is removed shall be squared up with the 15 pound hammer to prevent feather edges.

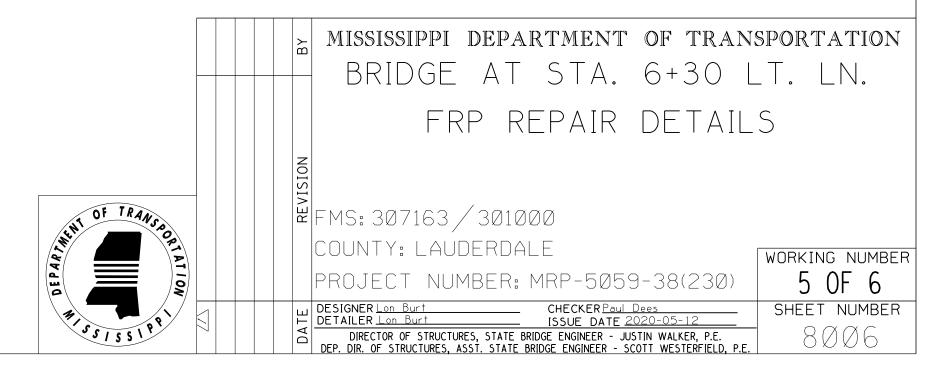
5. Area of the beam repaired with epoxy mortar shall be restored to the original dimensions and details as shown in the information plans, unless noted otherwise.

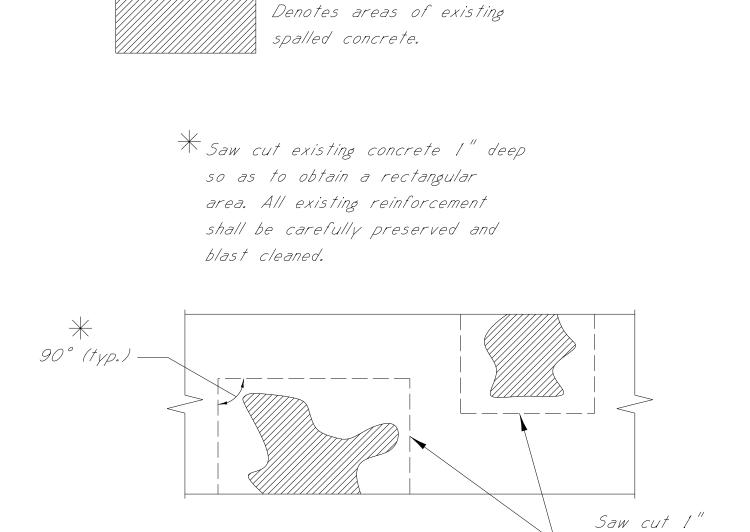
6. Materials:

- a. Epoxy Resin: Resin shall be approved by the Director of Structures, State Bridge Engineer.
- b. Silica Sand: Silica sand material shall be bagged general purpose blast cleaning sand.
- c. Epoxy Mortar Mix: Epoxy mortar mix shall consist of part liquid epoxy and part clean, dry sand mixed in the ratio recommended by the manufacturer. 7. Application:
 - a. A representative of the epoxy manufacturer must be present for sufficient time to ensure the Contractor is properly schooled in the use of the epoxy materials.
 - b. Prior to placement of the mortar mix the prepared surface shall be lightly primed with neat epoxy.
 - c. Curing time shall be in accordance with manufacturer's recommendations.
- 8. The cost of removing spalled or cracked concrete, cleaning exposed
 - reinforcing steel, patching material, labor and any miscellaneous materials necessary to complete the repairs as shown shall be paid for on a square feet basis as Bridge Repair, Epoxy Repair. This item shall be bid such that this item may be increased, decreased, or eliminated as directed by the Project Engineer.

Locations To Be Repaired:

Span No. 1L, Beam No. 1.

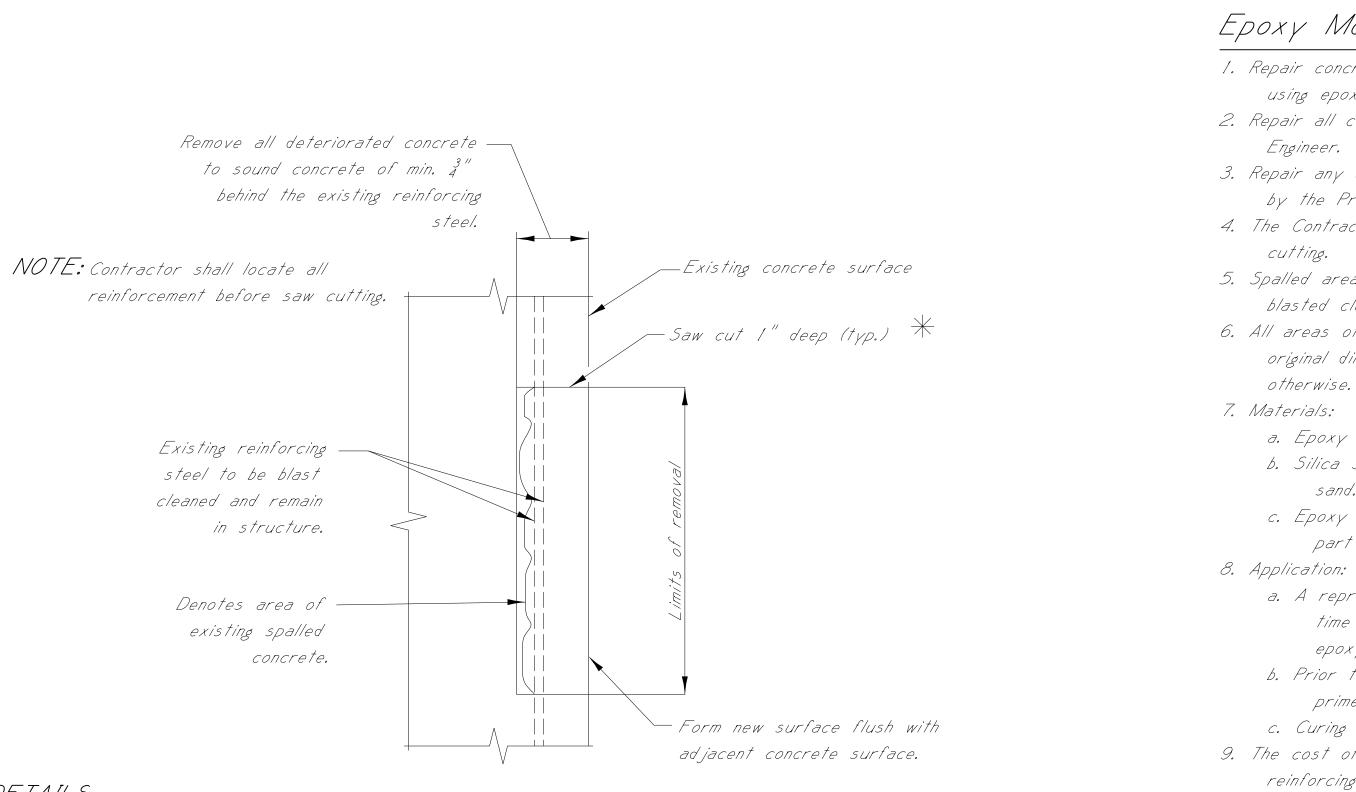




SPALL REPAIR DETAILS

deep (typ.)

Details above are for spalled areas where rebar is exposed.



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Epoxy Mortar Repair Notes:

1. Repair concrete spalled areas on the bridge as directed by the Project Engineer using epoxy mortar.

2. Repair all concrete spalled areas listed on this page and as directed by the Project Engineer.

3. Repair any additional concrete spalled areas not listed on this page as directed by the Project Engineer.

4. The Contractor shall determine the depth of reinforcement prior to any saw cutting.

5. Spalled areas where pack rust has developed around or on reinforcement shall be blasted clean. Hammers used for removal shall be limited to 30 pounds. 6. All areas of the bridge repaired with epoxy mortar shall be restored to the original dimensions and details as shown in the information plans, unless noted otherwise.

a. Epoxy Resin: Resin shall be selected from the MDOT approved materials list. b. Silica Sand: Silica sand material shall be bagged general purpose blast cleaning sand.

c. Epoxy Mortar Mix: Epoxy mortar mix shall consist of part liquid epoxy and part clean, dry sand mixed in the ratio recommended by the manufacturer.

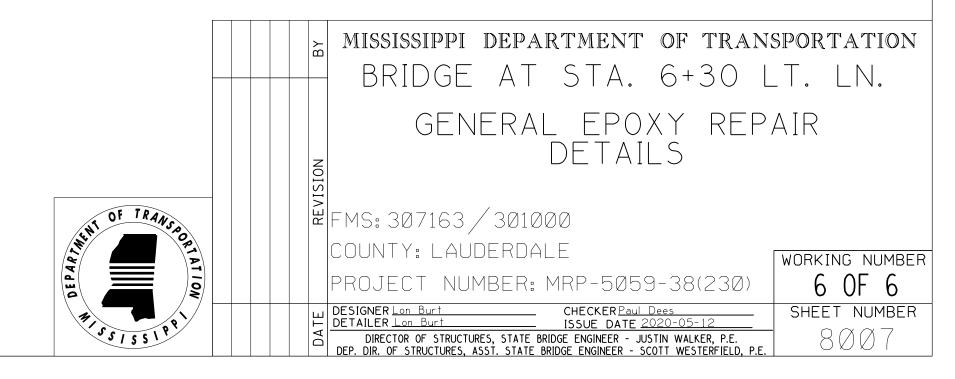
a. A representative of the epoxy manufacturer must be present for sufficient time to ensure the Contractor is properly schooled in the use of the epoxy materials.

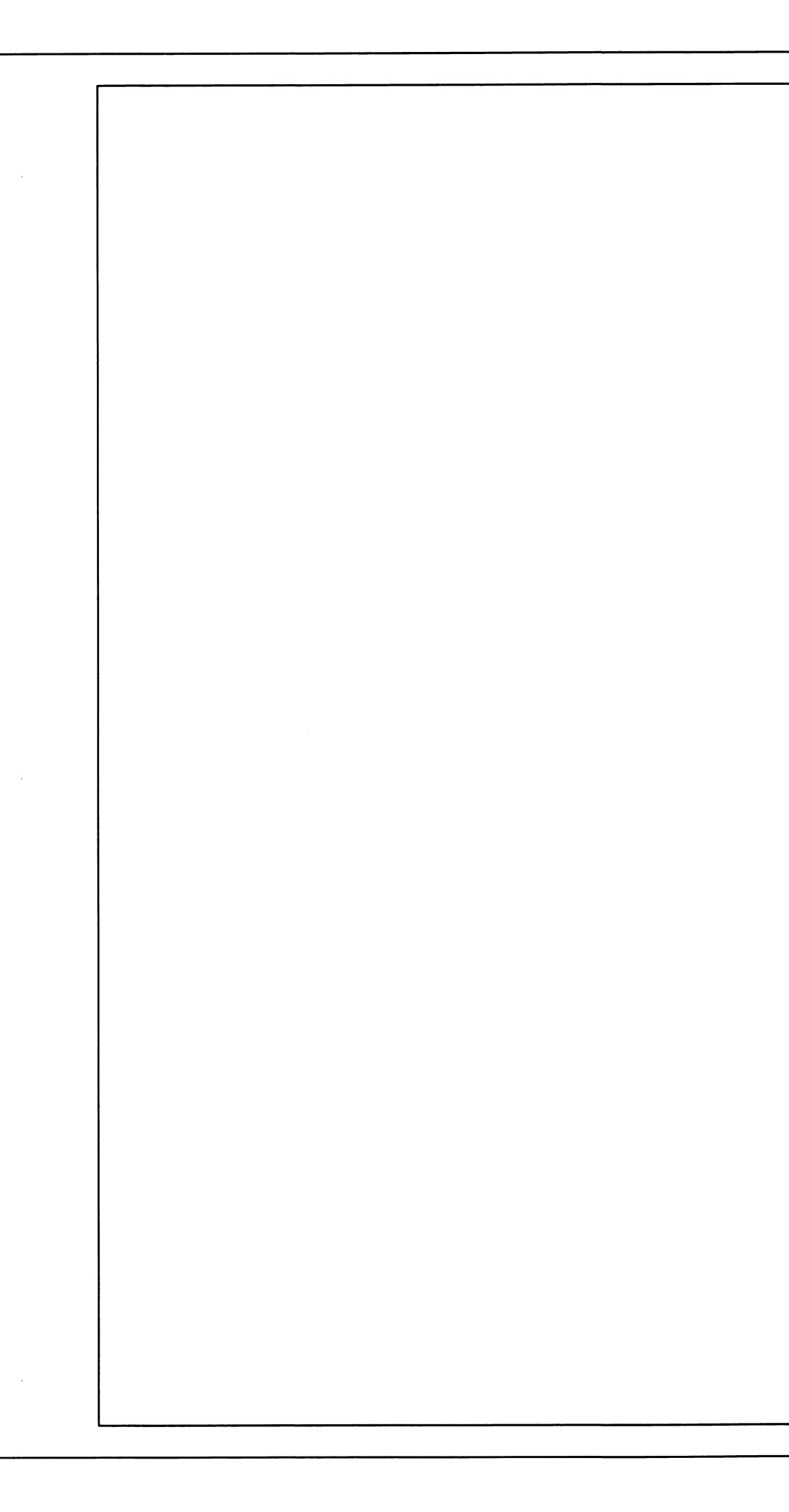
b. Prior to placement of the mortar mix the prepared surface shall be lightly primed with neat epoxy.

c. Curing time shall be in accordance with manufacturer's recommendations. 9. The cost of saw cutting, removing spalled or cracked concrete, cleaning exposed reinforcing steel, patching material, labor and any miscellaneous materials necessary to complete the repairs as shown shall be paid for on a square feet basis as Bridge Repair, Epoxy Repair. This item shall be bid such that this item may be increased, decreased, or eliminated as directed by the Project Engineer.

Locations To Be Repaired:

End Bent No. I cap and wing wall on the west end of the bridge Bridge railing at approximate Sta. 10+00 - Sta. 10+02

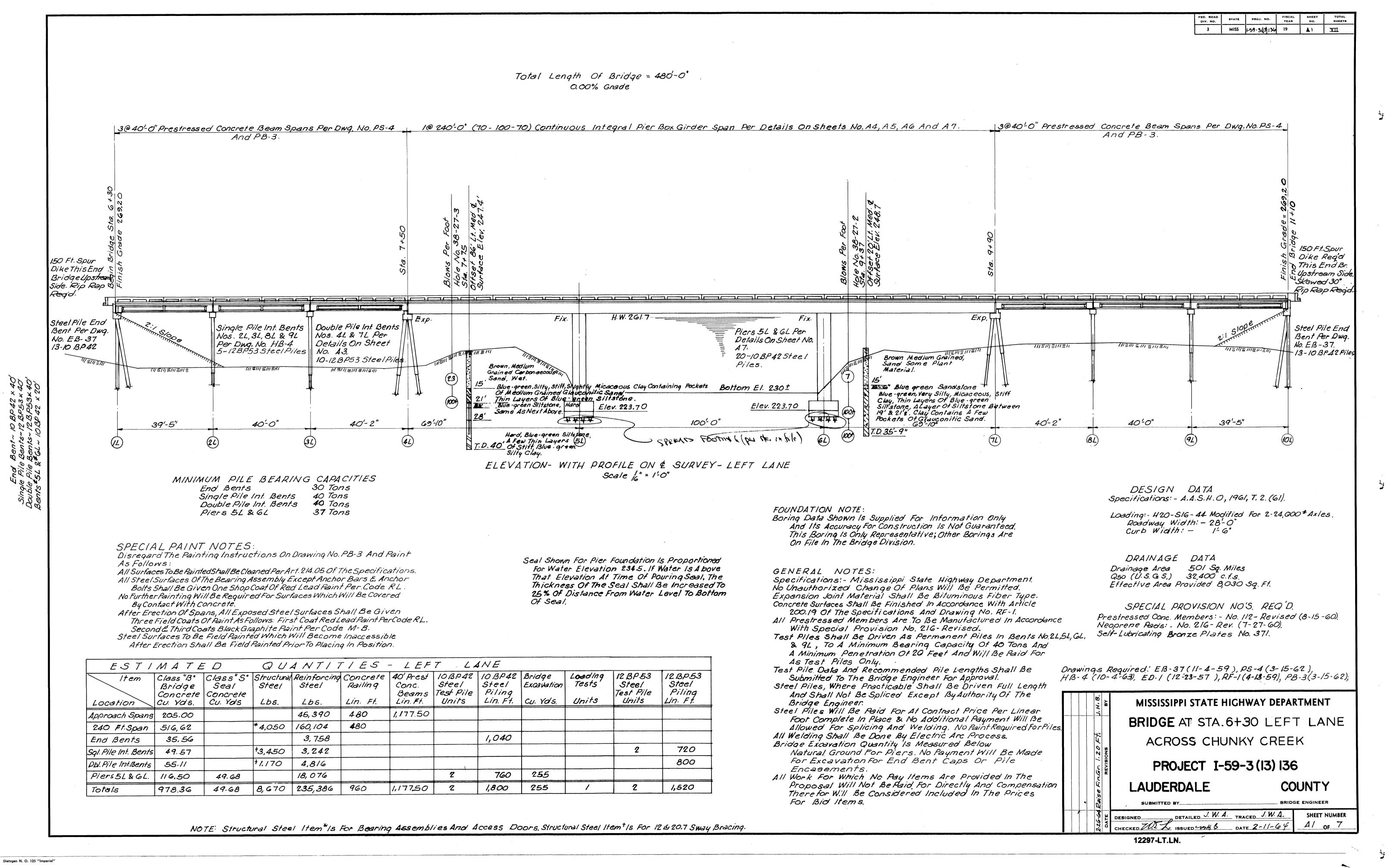




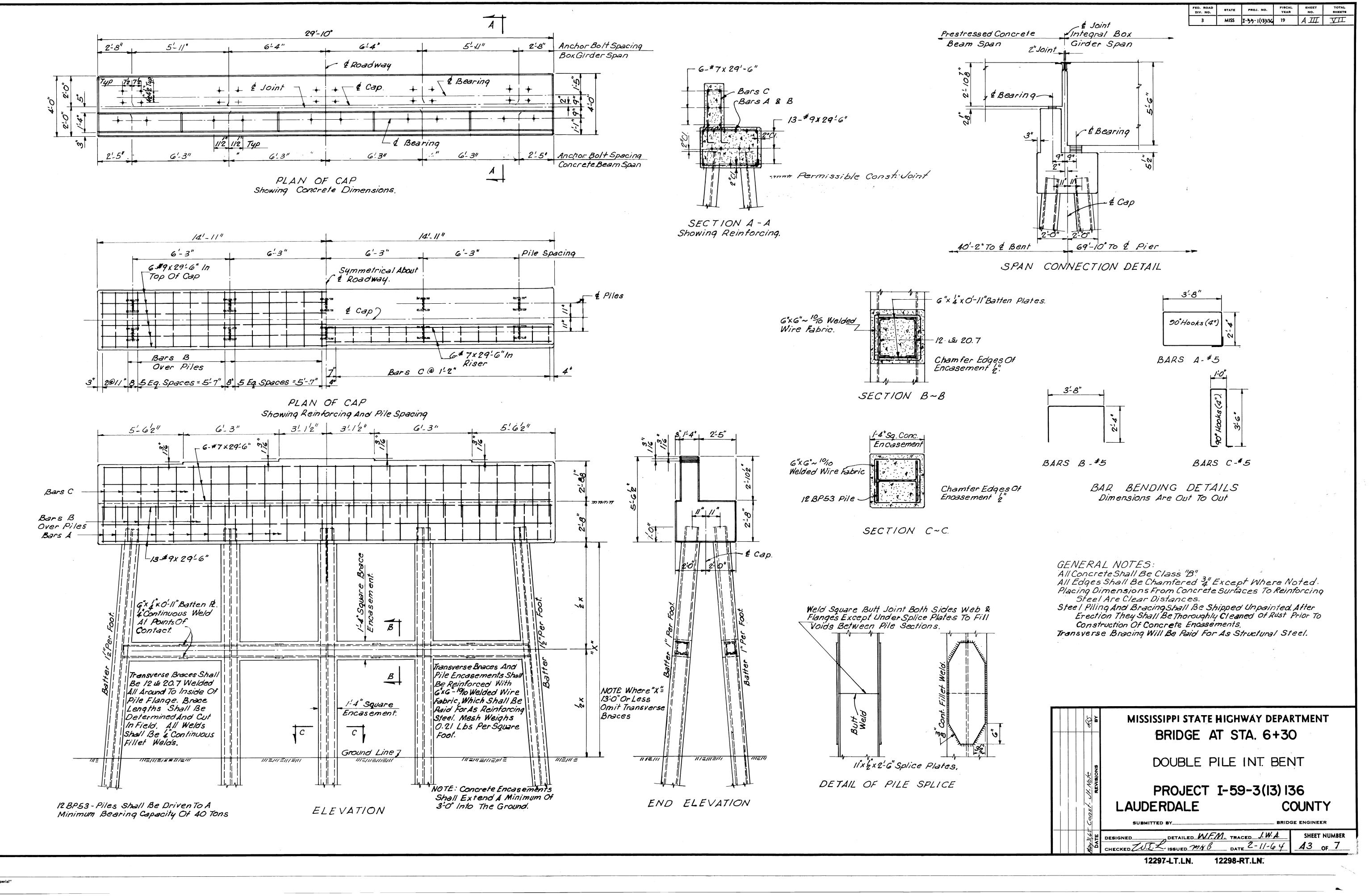
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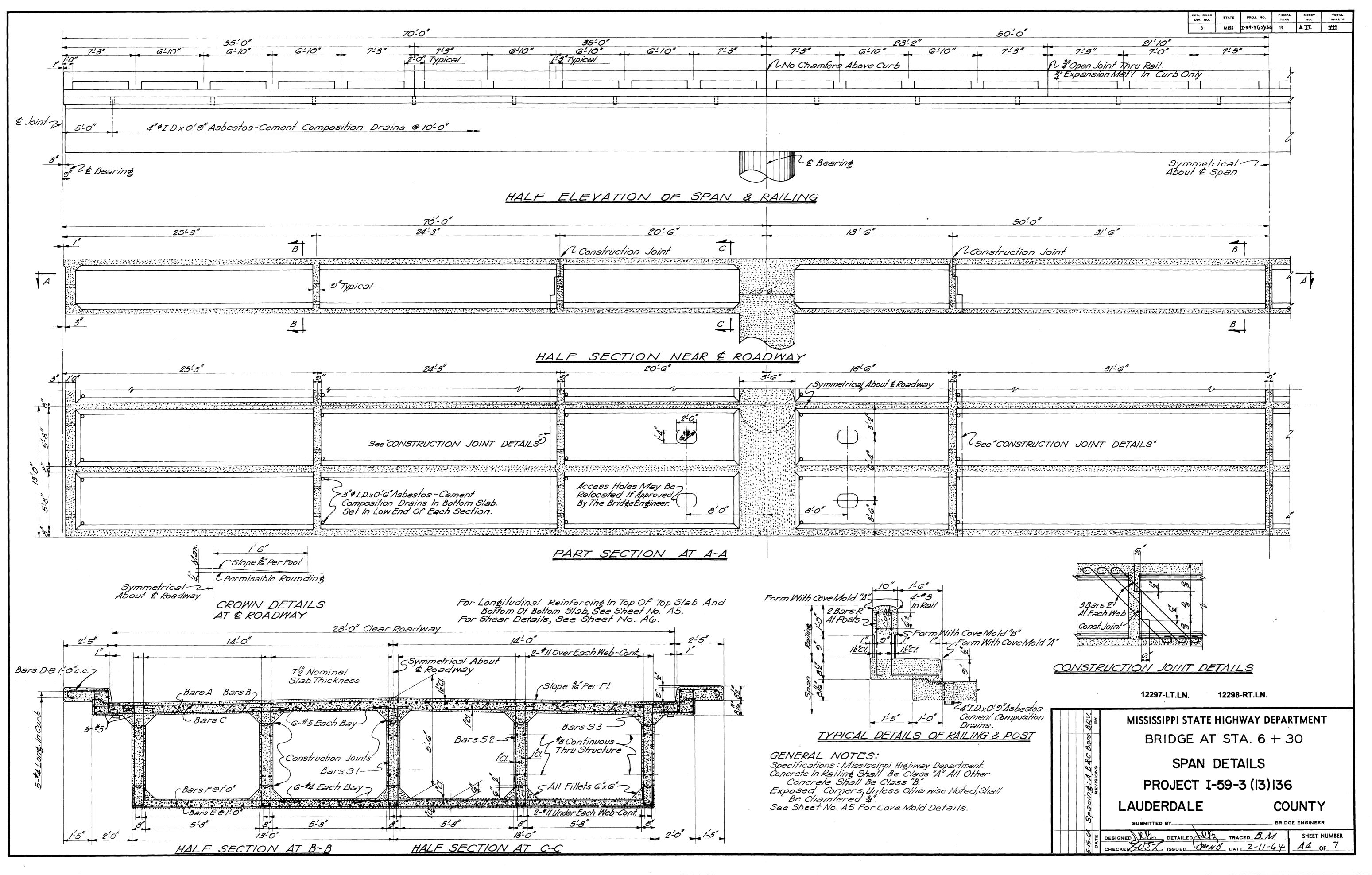
INE				
10 BP42 Steel Piling	Bridge Excavation	Loading Tests	12 BP 53 Steel Test Pile	12 BP53 Steel Piling
Lin. Ft.	Cu. Yds.	Units	Units	Lin. Ft.
			· · · · · · · · · · · · · · · · · · ·	
1,040				
			2	720
				800
760	255			
1,800	255	/	2	1,520
	10 BP42 Steel Piling Lin. Ft. 1,040 760	10 BP42BridgeSteelExcavationPilingCu. Yds.Lin. Ft.Cu. Yds.1,0401760255	10 BP42 SteelBridge ExcavationLosding TestsPiling Lin. Ft.Cu. Yals.Units1,040760255-	10 BP42 Steel Piling Lin. Ft.Bridge ExcavationLosding Tests12 BP53 Steel Test Pile Units1,04011176025511



Dietzgen N. O. 135 "Imperial"

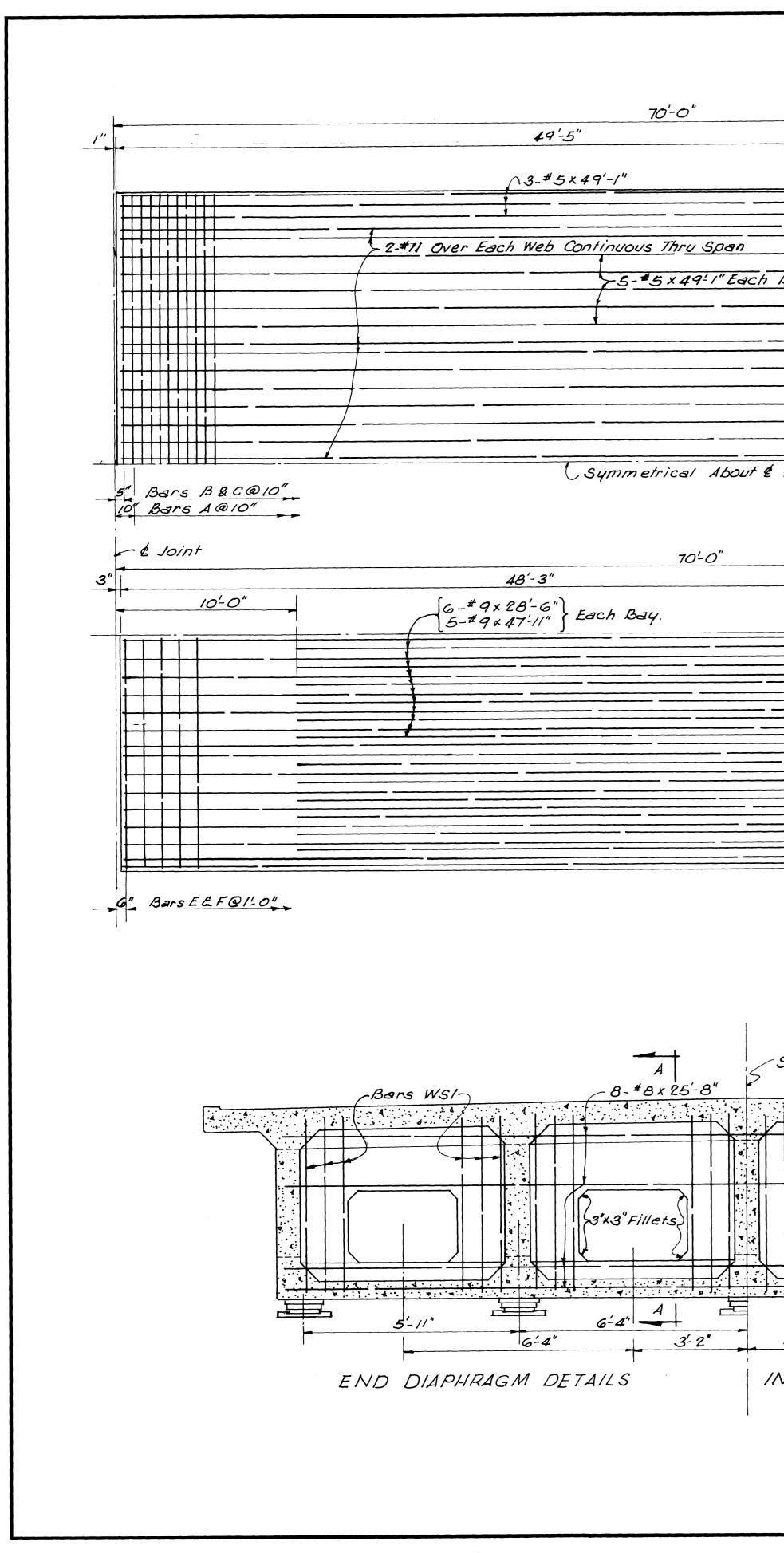
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Dietzgen N. O. 135 "Imperial"

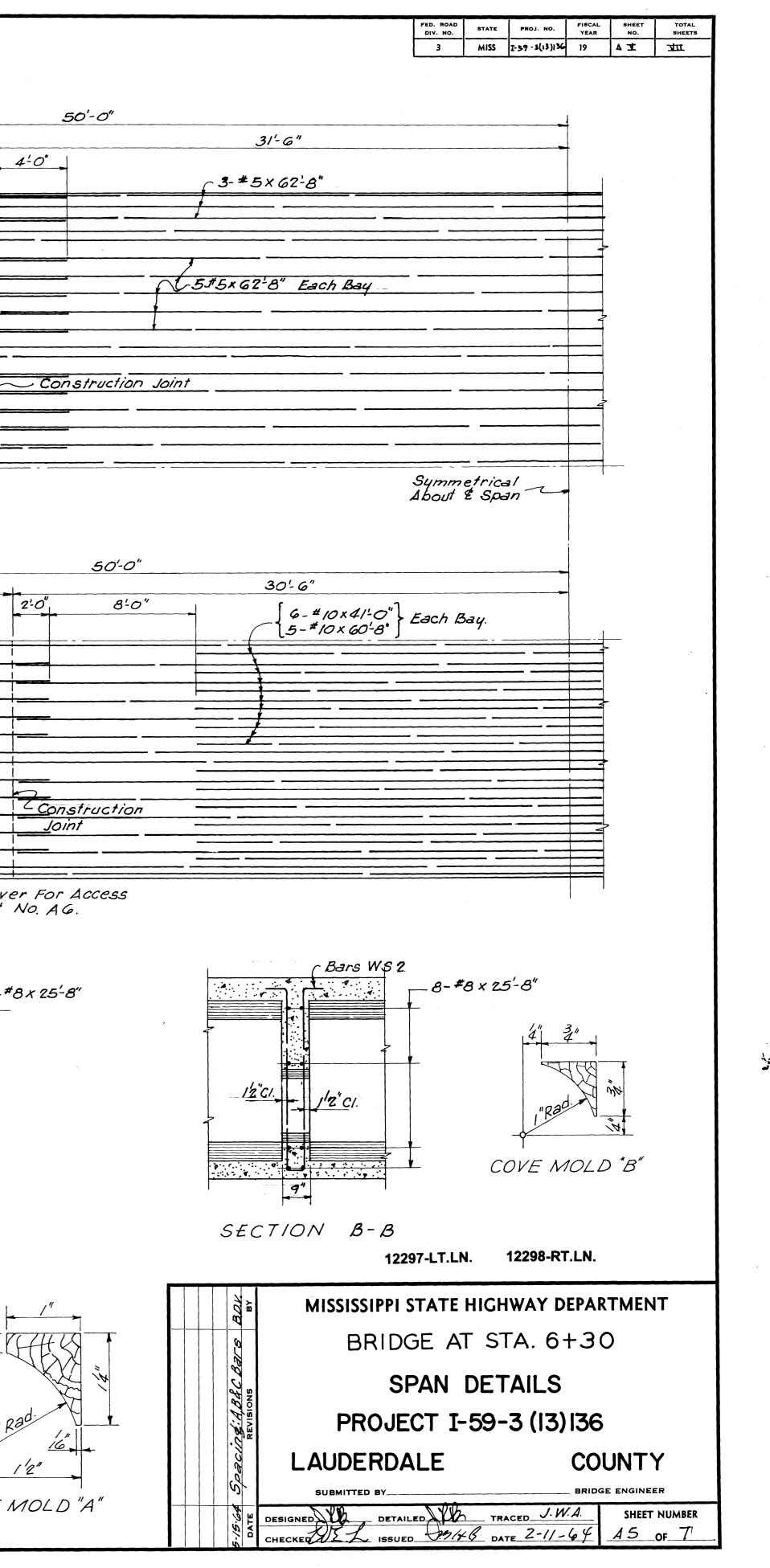
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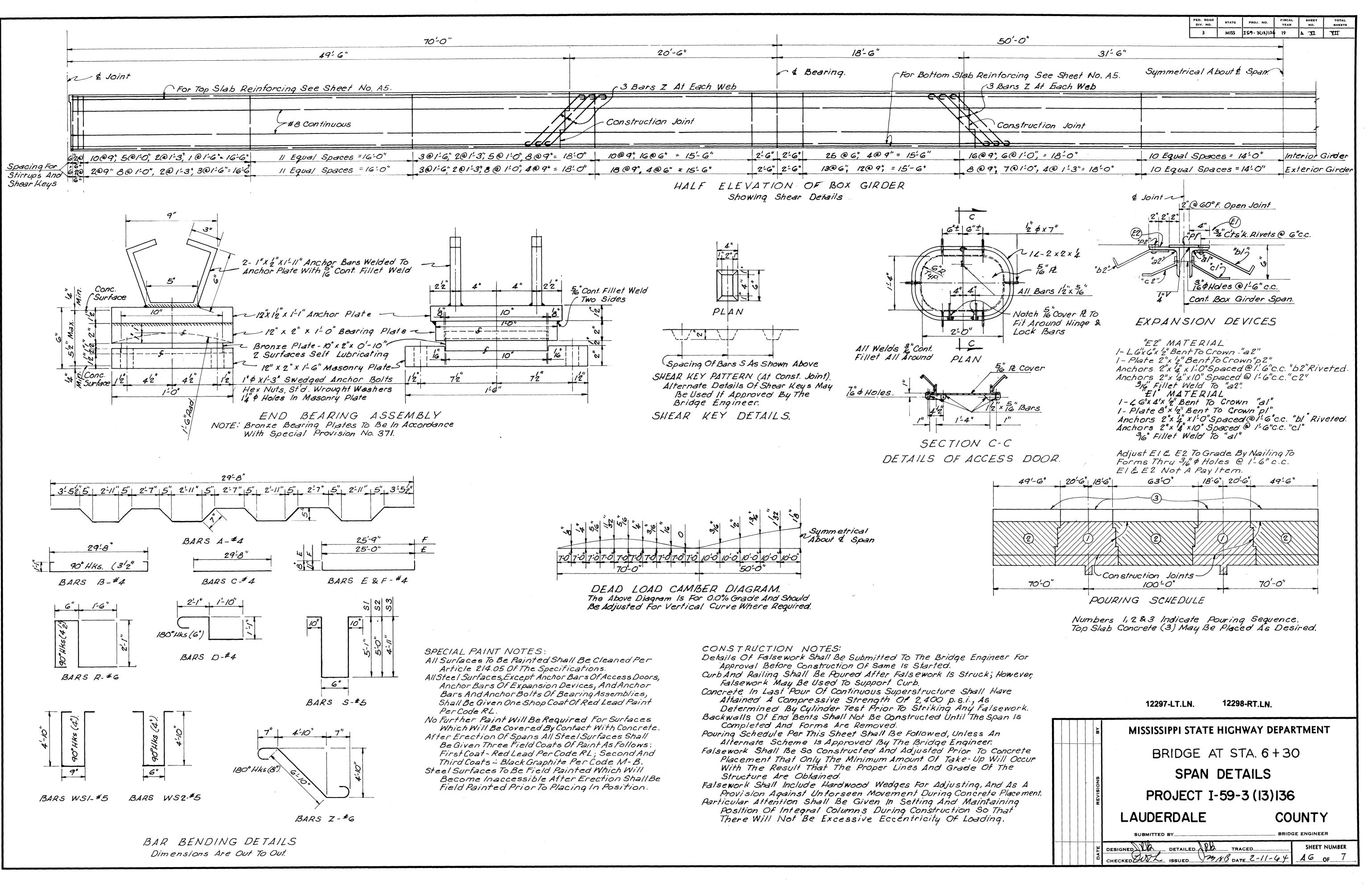
Dietzgen N. O. 135 "Imperial"

·			
	20'-6"		18'-6"
4'-0"	G'-O" = 1 = f7 # //	1 × 17-0"	6 Rearian 6-0"
•		x 47'-0" x 27'-0"	r & Bearing
Вау.			
	· · · · · · · · · · · · · · · · · · ·		
	Construction		
	Joint		
			f
	<u> </u>		
	ART PLAN OF TOP S wing Reinforcing Steel In To		6-#//×27-0" 5-="//×47-0" } Each Bay
	21-6"		19-6"
<u> </u>			
	\wedge	r	r & Bearing
	Symmetrical About	& Roadway	
)	
Construction Jt.			Each Bay
	2- # 11 linder Fau	ch Web Continuou	
	Trim Bars		
	To Fit	· · · · · · · · · · · · · · · · · · ·	
	Access Holes.		
S	PART PLAN OF BC howing Reinforcing Steel		
Symmetrical About & Road	•	#8x25'-8" Permissible Cons Joint For Shear A See Sheet No. /	Key Details SECTION A-A
3'2" G'4" NTERMEDIATE DIAPHA	RAGM DETAILS.	Top Of Curb	W.P. Face OF Curb Gutter Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb Curb C
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