SECTION 905 -- PROPOSAL (CONTINUED)

I (We) hereby certify by digital signature and electronic submission via Bid Express of the Section 905 proposal below, that all certifications, disclosures and affidavits incorporated herein are deemed to be duly executed in the aggregate, fully enforceable and binding upon delivery of the bid proposal. I (We) further acknowledge that this certification shall not extend to the bid bond or alternate security which must be separately executed for the benefit of the Commission. This signature does not cure deficiencies in any required certifications, disclosures and/or affidavits. I (We) also acknowledge the right of the Commission to require full and final execution on any certification, disclosure or affidavit contained in the proposal at the Commission's election upon award. Failure to so execute at the Commission's request within the time allowed in the Standard Specifications for execution of all contract documents will result in forfeiture of the bid bond or alternate security.

Bidder acknowledges receipt of and has added to and made a part of the proposal and contract documents the following addendum (addenda):

ADDENDUM NO.	1 DATED	11/16/2021	ADDENDUM NO. DATED	
ADDENDUM NO	DATED		ADDENDUM NO. DATED	
ADDENDUM NO	DATED		ADDENDUM NO DATED	
Number	Description		TOTAL ADDENDA: 1	
Revised Table of Cor	ntents; Deleted Notice to Bi	idder No. 2783:	(Must agree with total addenda issued prior to opening of bids)	
Revised Notice to Bio	dder No. 3704; Added S.P mendment EBSx Downloa	No. 907-619-5;	Respectfully Submitted,	
			DATE	
			Contractor	
			Signature	
			TITLE	
			ADDRESS	
			CITY, STATE, ZIP	
			PHONE	
		4/1	FAX	
			E-MAIL	
(To be filled in if a corpor	ration)			
Our corporation is charter	red under the Laws of the	State of	and the nam	es,
	ses of the executives are as		_	
Pr	esident		Address	
Se	cretary		Address	_
Tr	easurer		Address	

The following is my (our) itemized proposal.

SP-9519-00(004)/ 108715301000, SP-9520-00(001)/ 108715302000 & SP-9513-00(001)/ 108715303000 Lincoln County(ies)

Revised 01/26/2016

MISSISSIPPI DEPARTMENT OF TRANSPORTATION TABLE OF CONTENTS

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SP-9513-00(001)/108715303 - Lincoln

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#3	Final Cleanup
#9	Federal Bridge Formula
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PROJECT: SP-9519-00(004)/108715301 - Lincoln SP-9520-00(001)/108715302 - Lincoln SP-9513-00(001)/108715303 - Lincoln

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Form--OCR-485

(REVISIONS TO THE ABOVE WILL BE INDICATED ON THE SECOND SHEET OF SECTION 905 AS ADDENDA)

11/16/2021 02:24 PM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 – NOTICE TO BIDDERS NO. 3704

CODE: (SP)

DATE: 10/19/2021

SUBJECT: Scope of Work

PROJECT: SP-9519-00(004)/ 108715301, SP-9520-00(001) / 108715302, & SP-9513-

00(001)/ 108715303 - Lincoln County

The contract documents do not include an official set of construction plans, but may, by reference, include some Standard Drawings when so specified in a Notice to Bidders entitled, "Standard Drawings."

The work to be accomplished using the pay items and corresponding specifications set forth in the contract is to overlay the following sections of SR 184 from US 84 to US 51 and from BSM near Brookway Blvd. to US 84, overlay the following section of SR 583 from US 84 to ESM, and to place pavement markings along the following section of SR 550 from US 51 to ESM.

Route	<u>Length</u> (Mile)	<u>Width</u> (Feet)	Surface	Thickness (Inches)	Level Lift	Thickness
SR 184	2	23' & var.	9.5-mm, ST	1"	UTAP	0.5"
SR 184	5	38' & var.	9.5-mm, ST	1"	UTAP	0.5"
SR 583	0.6	27' & var.	9.5-mm, ST	1"	UTAP	0.5"
SR550	0.68	22' & var.	_	_	_	_

Typical section: TS-1 thru TS-5 address requirements for SR 184

TS-6 addresses requirements for SR 583

Work on the Project shall consist of the following:

- 1. The Contractor shall erect and maintain construction signing, provide all signs, set up night time lane closures (if needed), and traffic handling devices in accordance with the Traffic Control Plan. The cost for this work is to be included in the price bid for pay item 618-A: Maintenance of Traffic. All traffic control devices on this project should comply with the latest version of the MUTCD. Fluorescent orange sheeting shall be used on all construction and traffic control signs except for those designated in the standards to be black legend and border on white background.
- 2. Prior to the overlay, the existing shoulders shall be clipped and surplus material shall be spread along the edge of the shoulders, fore slopes, or other adjacent areas as directed by the Project Engineer. Amounts of surplus material that may be impractical for such spreading

shall be removed as directed by the Engineer. The work here described is to be an absorbed item

3. The Contractor shall fine mill at the following locations:

ROUTE 184	LOCATION	LENGTH	<u>REMARKS</u>
	14+40 to 15+90	150'	BOP
	108+52 to 110+02	150'	EOP
Local Roads			As Directed
Moreton Place Eola Trail Spring Drive Deer Run Trail Oakhill Drive Zetus Road Long Leaf Trail			
184	190+00 to 191+50	150'	BOP
	226+38 to 227+88	150'	EOP
	BSM to 18+30	Various	Along Curb as Directed
	Approx. 202+00	300'	Rail Road Crossing

<u>Local Roads</u> As Directed

Snyder Lane

Nalco Lane

East Lincoln Drive

Kinnison Trail

Rogers Lane

Nola Road

County Farm Lane

Belt Line Drive

Twin Oaks Lane

E Highland Drive

W Highland Drive

Rushing Street

Avalon Street

Cloverdale Street

Marr Street

MLK North

MLK South

Short Street

Penn Street

Grenn Street

Wood Street

Henry Myers Street

Panther Street

- N. 3rd Street
- N. 2nd Street
- S. 2nd Street
- N. 1st Street
- S. 1st Street
- N. Railroad Avenue
- S. Railroad Avenue
- N. Whitworth Avenue
- S. Whitworth Avenue
- N. Jackson Street
- S. Jackson Street
- N. Church Street

583	583/84 Interchange Crossover	Variable	As Directed
	26+70 to 35+10	150'	EOP
Local Roads Greenview Trail Dale Trail			As Directed

4. The Contractor shall perform bridge end repair on SR 184 and SR 583 as shown on TS-5 and TS-6 as well as milling and inlaying various sections as shown on TS-1, TS-2, and TS-5 on SR 184.

Bridge End Repair Remarks SR 583 As per detail on TS-6 13+65 15+65 SR 184 As per detail on TS-5 85+50 87+50

Mill/Inlay Remarks

SR 184 As per details on TS-1, TS-2, and TS-5 31+49 to 46+96 Lt. Ln. 33+47 to 37+43 Rt. Ln. 42+21 to 43+50 Rt. Ln. 83+68 to 84+35 Rt. Ln. 87+93 to 88+45 Lt. Ln. 88+17 to 88+45 Rt. Ln. 90+40 to 90+81 Lt. Ln. 92+00 to 92+25 **Both Lanes** 94+56 to 94+88 Rt. Ln. 96+62 to 97+27 Rt. Ln. 97+95 to 98+40 Lt. Ln. 98+45 to 98+81 Rt. Ln. 100+37 to 100+65 Lt. Ln. 100+76 to 100+97 Rt. Ln. 101+89 to 102+15 Lt. Ln. 104+22 to 105+25 Lt. Ln. SR 184 191+48 to 196+00 **Both Lanes** Hwy. 184 at N Second St. As Directed Hwy. 184 at Hamilton St. As Directed Hwy 184 at Nola Rd As Directed Hwy 184 at County Farm As Directed

- 5. The Contractor shall perform excess excavation beneath and around each section of existing guardrail at the bridge along SR 583 located at approximately 13+65. The excavated granular material shall be replaced with crushed stone as per sheet GR-4A-MOD. The existing asphalt pads at these locations are to remain in place.
- 6. The Contractor shall perform pre-leveling operations by placing ½" and variable of UTAP, Leveling in the areas indicated on sheets TS-1–TS-5 on SR 184, and from the BOP to EOP as shown on TS-6 on SR 583.

The Contractor shall remove existing pavement markers prior to placing asphalt. The cost of removing these pavement markers is to be absorbed in other items bid.

The Contractor shall take due care to maintain a uniform outside edge of pavement, and shall place asphalt to establish an approximate vertical face in order for granular material to be placed directly against the surface and not on a shelf of an underlying course. A rubber tire roller shall be used in addition to a steel wheel roller in obtaining compaction in the wheel ruts on this leveling lift of asphalt.

7. The Contractor shall place top lifts of asphalt on the roadway left and right of the centerline from BOP to EOP as shown in TS-1-TS-5 on SR 184, and TS-6 on SR 583. The finished

cross-slope is to be 2% in tangent sections and match the existing super elevation rate in horizontal curves.

Asphalt surface shall be placed on all local roads and driveway aprons (1½" Thickness).

Driveway aprons shall be paved 10' wide or as directed by the ngineer. All local roads shall be paved to the normal right of way line or as directed by the Engineer.

Note: The Contractor shall be responsible for traffic control while MDOT personnel conduct density testing on the asphalt. The cost shall be included in the price bid for pay item 618-A: Maintenance of Traffic.

- 8. The Contractor shall place granular material on the shoulders to raise the existing shoulders to the new grade, bladed, shaped, and compacted to a minimum slope of 4% as shown in TS-1-TS-5 on SR 184, and TS-6 on SR 583. Granular material will not be allowed to be placed directly on the top lift of asphalt, but must be placed directly on the gravel shoulder by means of a road widener machine approved by the Project Engineer. Light blading or mowing of the shoulders will be required prior to placement of the granular material.
- 9. The Contractor shall place rumble strips in the locations indicated on the typical sections on sheets TS-1-TS-5 on SR 184
- 10. The Contractor shall perform traffic signal improvements at the following intersections as detailed on sheets 2001 thru 2004 with additional details listed on sheets 2005 thru 2009.
 - SR 184 at Church Street
 - SR 184 at Jackson Street
 - SR 184 at First Street
 - SR 184 at Second Street
- 11. The Contractor shall place all permanent pavement markings, including stripe and raised pavement markers on following sections of SR 184 from US 84 to US 51 and from BSM near Brookway Blvd. to US 84, the following section of SR 583 from US 84 to ESM, and along the following section of SR 550 from US 51 to ESM as required by the Standard Drawings or as directed by the Engineer.

An asphalt taper caused by the milling or shall be placed at the temporary joints overlay in order to provide for the safe movement of traffic. The taper shall be three feet (3') in length per one inch of depth and will be an absorbed item.

Temporary striping shall be required after milling and overlaying operations. Temporary striping shall be placed in the same locations and layout as permanent stripe. All centerline, lane lines, edge lines, and no passing stripes that have been removed during the day's operations shall be replaced with temporary stripe before work is discontinued for the day or as soon thereafter as weather conditions will permit, except that:

- Replacement of no-passing stripes may be delayed for a period not to exceed three (3) days for a two or three lane road.
- Temporary edge lines on projects requiring shoulders constructed of granular material may be delayed for a period not to exceed three (3) days.

All asphalt and concrete curbs along local roads from BOP to EOP shall be painted (two applications) with white traffic paint and traffic beads as shown on sheet DCIS-1; such costs shall be included in other items bid.

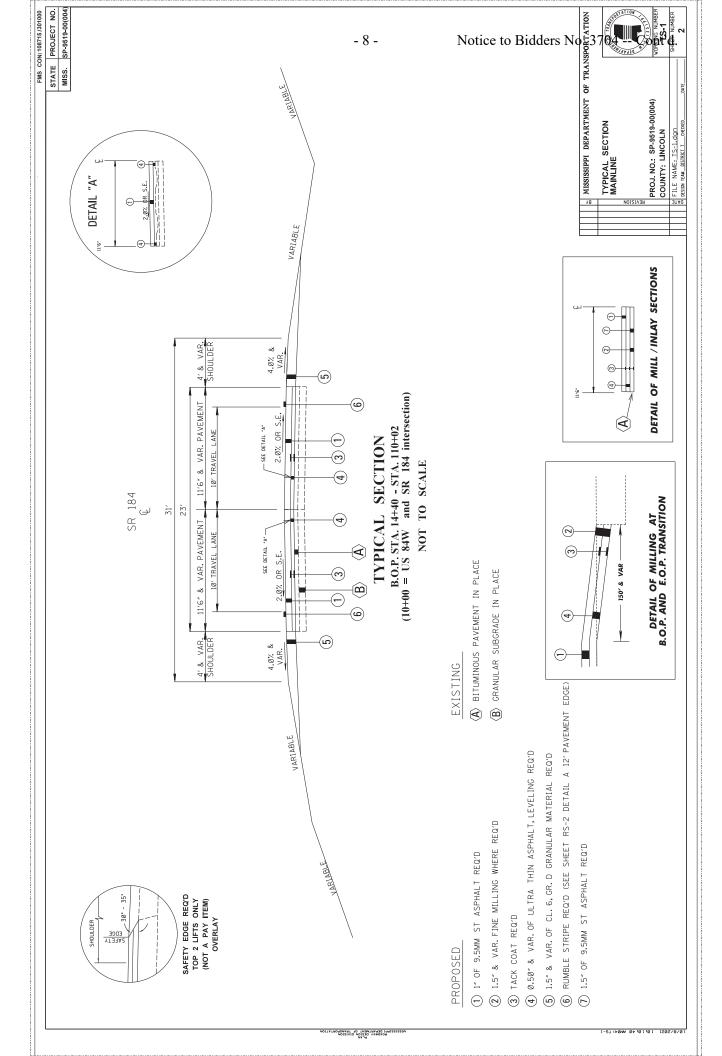
It shall be the responsibility of the Contractor to protect the roadway and all existing structures, such as bridges, culverts, signs, and curbs, from damage occurring as a result of the Contractor's operations. Damages to existing structures caused by the Contractor's operations shall be repaired or replaced at no cost to the Department.

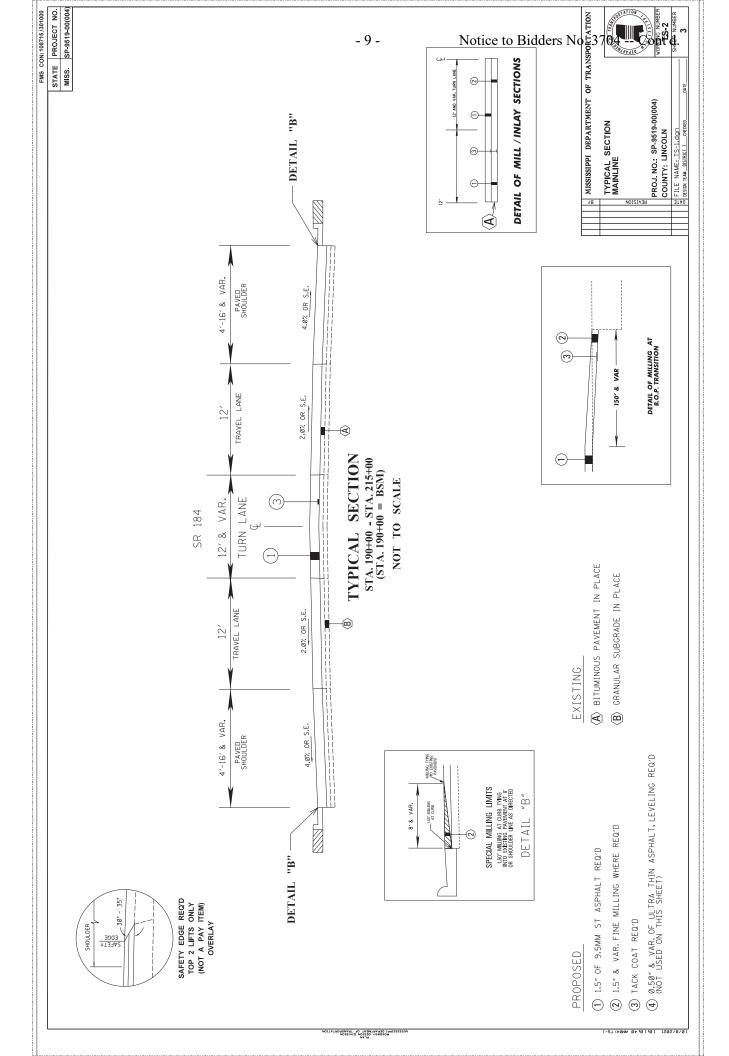
Incidental work such as removing vegetation, shaping and compaction of shoulders, removing excess asphalt material, project clean-up, and other incidental work necessary to complete the project will not be measured for separate payment. Such costs shall be included in the price of other items bid.

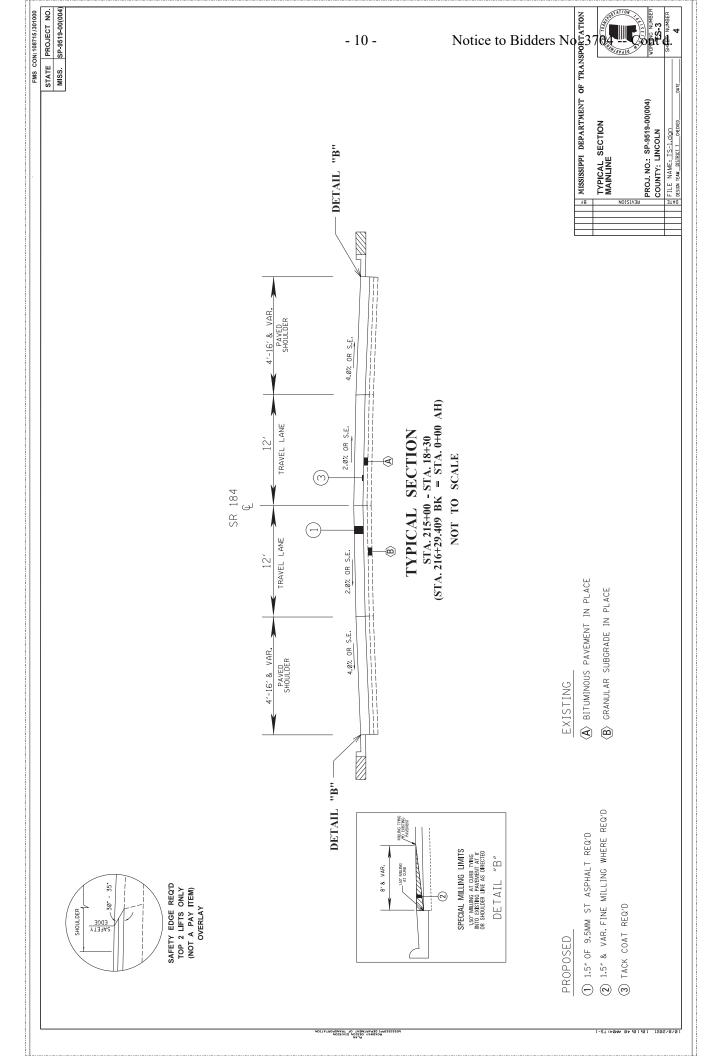
It is the Contractor's responsibility to insure the drainage of surface water from milled areas. Temporary wedges (paper joints) of full lane width asphalt shall be placed by the Contractor immediately after the fine milling process to allow the safe transition of traffic. These wedges shall be maintained in a satisfactory condition by the Contractor until the permanent asphalt is placed, cost to be absorbed.

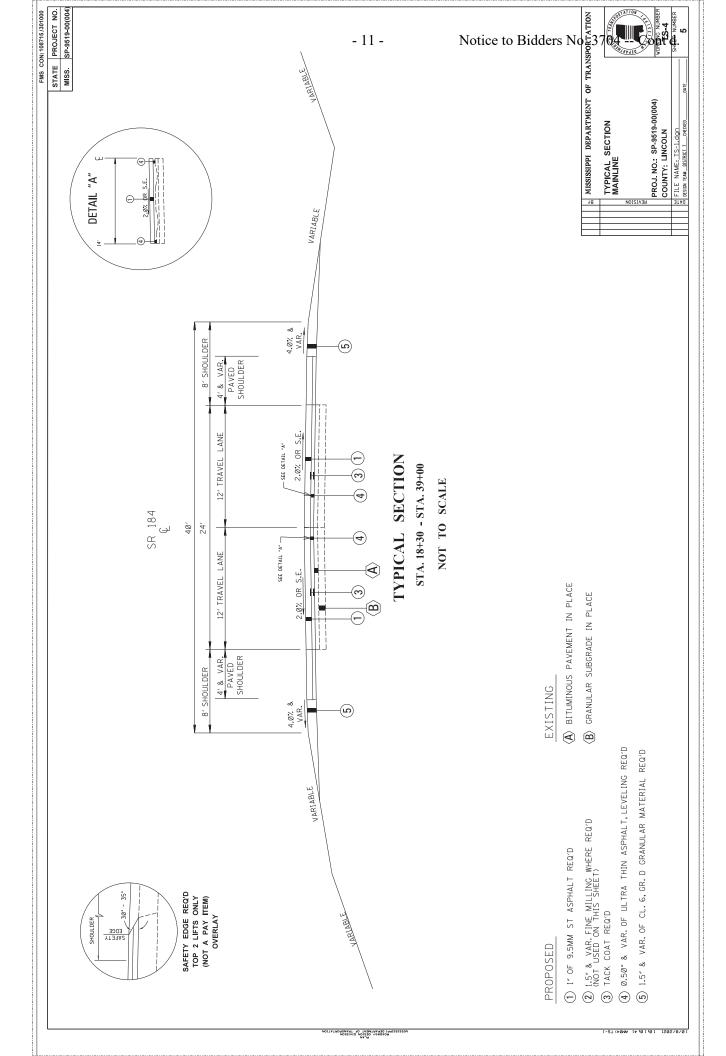
The Contractor shall be responsible for coordinating with CN Railroad all work performed within the ROW of the railroad as required by other Notice to Bidders.

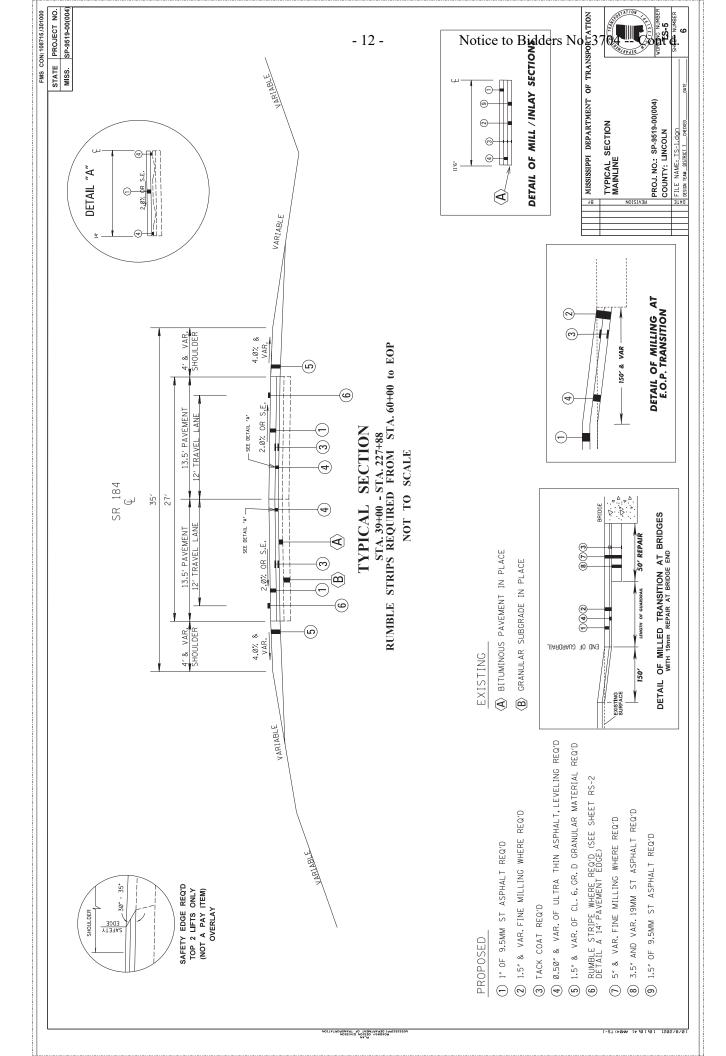
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					ğ	PROJECT NO. SP-9519-00(004)
	DESCRIPTION OF SHEET	WKG. NO.	NO.		MISS:	SP-9513-00(001)
	DETAILED INDEX	DI-1	_			
	TYPICAL SECTION SHEETS (6) TYPICAL SECTION: SR 184 MAINLINE STA.14400 TO STA.110+02 TYPICAL SECTION: SR 184 MAINLINE STA.190+000 (GSM) TO STA.215+00 TYPICAL SECTION: SR 184 MAINLINE STA.180-00 TO STA.18+30 TYPICAL SECTION: SR 184 MAINLINE STA.18+30 TO STA.38+00 TYPICAL SECTION: SR 184 MAINLINE STA.39+00 (GSM) TO STA.22+08 TYPICAL SECTION: SR 583 MAINLINE STA.0+00 TO STA.105+62	7.2.2.2.2.2.2.2.2.3.3.2.2.3.3.2.3.3.2.3.3.2.3	0124 40 0 b			
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	TRAFFIC SIGNAL SHEETS (9) TRAFFIC SIGNAL IMPROVEMENTS @ SR.184 AND CHURCH ST. TRAFFIC SIGNAL IMPROVEMENTS @ JACKSON ST. TRAFFIC SIGNAL IMPROVEMENTS @ SECOND ST. TRAFFIC SIGNAL IMPROVEMENTS @ SECOND ST. TRAFFIC SIGNAL GENERAL NOTES VIDEO/MULTI-SENSOR DETECTION INSTALLATION TRAFFIC CONTROL PLAN POLE EXTENSION AND CAMERA MOUNTING DETAILS	751-1 751-3 751-3 751-4 750-1 750-9 750-9 750-9 750-9	2 0 0 1 2 0 0 1 2 0 0 2 2 0 0 3 2 0 0 0 7 2 0 0 0 7 2 0 0 0 9			Notice to Bidde
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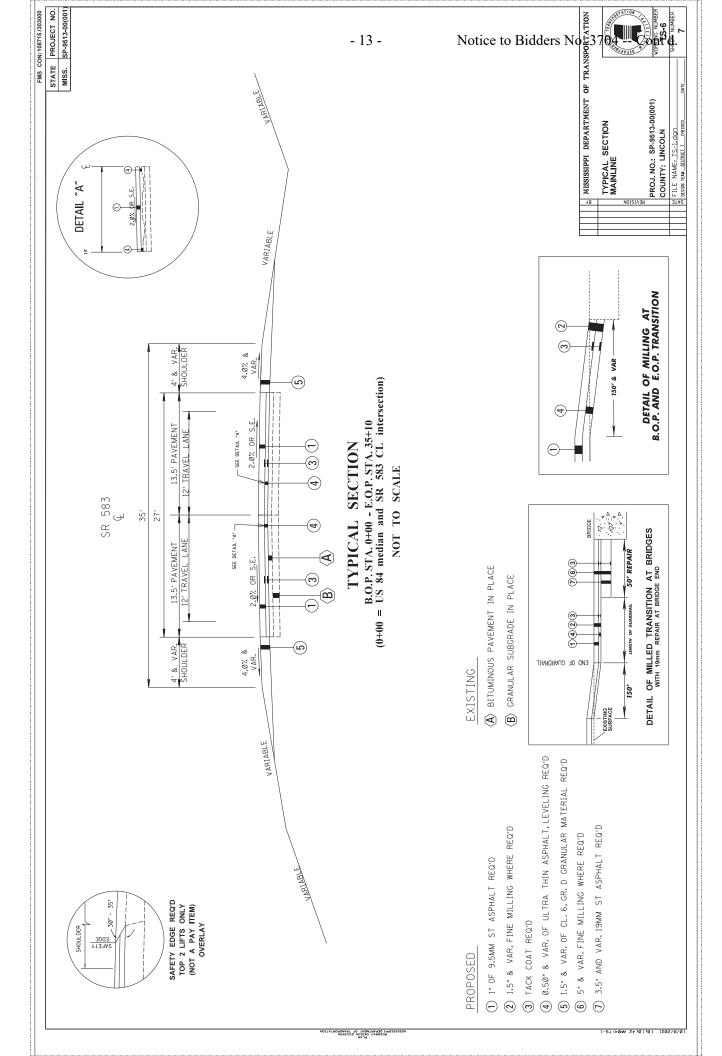












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Date 09/29/2021

PROJ NO: SP-9519-00(004)
COUNTY: LINCOLN
g FILENAME: 1008715 SQS
Design Team
Checked

MISSISSIPPI DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES

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145 385 15 ,921

Traffic Signal Conduit, Underground Drilled or Jacked, Rolled Pipe,

Video Vehide Detection Sensor, Type 1A

907-637-C028 907-637-D002 907-643-A004

907-643-B001

Video Vehide Detection Cable

Removal of Existing Traffic Signal Equipment

Radio Interconnect, Broadband, Short Range

907-662-D002

907-663-A001 .00A-899-A00

Railway-Highway Provisions

Network Switch, Type A

Traffic Signal Equipment Pole Shaft Extension, 10'

Solid State Traffic Actuated Controller, Type 1

907-632-D001

907-634-B001

Delineators, Guard Rail, White

Traffic Signal Conduit, Underground, Type 4, 2"

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Two-Way Yellow Reflective High Performance Raised Markers Two-Way Clear Reflective High Performance Raised Markers Two-Way Blue Reflective High Performance Raised Markers

Red-Clear Reflective Raised Markers

Thermoplastic Legend, White Thermoplastic Legend, White

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6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow 6" Thermoplastic Double Drop Edge Stripe, Continuous White

Thermoplastic Detail Stripe, Blue-ADA

Thermoplastic Legend, Blue-ADA Handicap Symbol

907-626-H001

626-G003 626-H004

626-H005 627-C001

627-L001 630-F006

627-P001

627-3001

626-G002

626-G001

Thermoplastic Detail Stripe, Yellow

Thermoplastic Detail Stripe, White

6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow

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Fine Milling of Bituminous Pavement, All Depths

9.5-mm, ST, Asphalt Pavement 19-mm, ST, Asphalt Pavement

Granular Material, LVM, Class 6, Group D

304-A008 403-A015

03-G002 403-A006

Excess Excavation, LVM, AH

Adjustment of Manhole Cover and Water Valve

Ultra Thin Asphalt Pavement Leveling

907-411-A001

406-D001 407-A001 423-A001 613-D006 618-A001

Asphalt for Tack Coat

Rumble Strips, Ground Maintenance of Traffic

Temporary Traffic Stripe, Continuous Yellow Temporary Traffic Stripe, Continuous White

Additional Construction Signs

Temporary Traffic Stripe, Skip Yellow

Temporary Traffic Stripe, Detail

619-A4002 619-A5001

619-A1001 619-A2001

618-B001

Temporary Traffic Stripe, Legend Temporary Traffic Stripe, Legend Temporary Portable Rumble Strips

Mobilization

907-619-B001

620-A001

626-C002

626-D001 626-E001

619-A6002 619-A6001

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- RADIOS, ANTENNAS, AND COAX CABLES TO BE COMPLETELY REMOVED. RADIOS SHALL BE INSTALLED AS PER 4
 - MANUFACTURER'S RECOMMENDATIONS CHURCH ST., JACKSON ST., FIRST ST., AND SECOND ST., AND AT US 51 @ BROOKWAY BLVD. ALL CABLING, OPERABLE UNIT ARE COST ABSORBED AND SHALL BE LOCATED AT MS 184 @ MOUNTING, HARDWARE, ARRESTORS, ETC. NECESSARY FOR A COMPLETE

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-MS: 108715-30100	

STATE

SP-9519-00(004)/SP-9520-00(001)/SP-9513-00 (001)

	SUMMARY OF QUANTITIES (SHEET 1)			
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202-B240	Removal of Traffic Stripe	비	450	

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l no	Revisi	PROJ INC: SP-9520-	# FILENAME: 1	Design Team Checked
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	MISSISSIPPI DEPARTMENT OF TRANSPORTAT BUMMARY OF QUANTITIES	F
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FMS: 108715-301000/108715-302000/108715-303000

STATE PROJECT NO.

MISS SP-9519-00(004)/SP-9520-00(001)/SP-9513-00 (001)

SUMMARY OF QUANTITIES (SHEET 2)	PANY TTEM INITED LINETT LINCOLN : 108715-302000	NATIEM PATER	Maintenance of Traffic LS 1	Mobilization LS 1	6" Thermoplastic Double Drop Edge Stripe, Continuous White MI 1	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow MI 1	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow MI 1	Thermoplastic Detail Stripe, White LF 500	Thermoplastic Detail Stripe, Yellow LF 220	Thermoplastic Legend, White SF 144	Thermoplastic Leaend. White
	ON METT VAC	FAT LIEM NO.	618-A001	620-A001	626-C002	626-D001	626-E001	626-G002	626-G003	626-H004	626-H005

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Working Number Soc-3 Sheet Number 10

MISSISSIPPI DEPARTMENT OF TRANSPORTATION OF SUMMARY OF QUANTITIES Date <u>09/29/2021</u> PROJ NO: SP-9513-00(001)
COUNTY: LINCOLN
BETLENAME: 1008715 SQS
Chesign Team
Checked

	SUMMARY OF QUANTITIES (SHEET 3)			
DAY TTEM NO	Math yad	L	LINCOLN: 108	: 108715-303000
	ראונורי	OIATI	Prelim	Final
202-B240	Removal of Traffic Stripe	LF	450	
203-6002	Excess Excavation, LVM, AH	C	180	
304-A008	Granular Material, LVM, Class 6, Group D	ბ	233	
304-H001	3/4" and Down Crushed Stone Base, LVM	გ	180	
	OR			
304-H002	Size 610 Crushed Stone Base, LVM	S	180	
	OR			
304-H003	Size 825B Crushed Stone Base, LVM	S	180	
403-A006	19-mm. ST. Asnhalt Pavement	NOL	51	
403-A015	9.5-mm. ST. Asnhalt Pavement	NOT	1.100	
406-D001	Fine Milling of Bituminous Pavement, All Depths	SY	8,800	
407-A001	Asphalt for Tack Coat	GAL	1,920	
907-411-A001	Ultra Thin Asphalt Pavement Leveling	NOT	414	
618-A001	Maintenance of Traffic	S	1	
618-B001	Additional Construction Signs	SF	1	
619-A1001	Temporary Traffic Stripe, Continuous White	MI	1	
619-A2001	Temporary Traffic Stripe, Continuous Yellow	MI	1	
619-A4002	Temporary Traffic Stripe, Skip Yellow	MI	1	
619-A5001	Temporary Traffic Stripe, Detail	LF	9,887	
619-A6002	Temporary Traffic Stripe, Legend	LF	576	
907-619-B001	Temporary Portable Rumble Strips	느	99	
620-A001	Mobilization	rs	1	
626-C002	6" Thermoplastic Double Drop Edge Stripe, Continuous White	M	1	
626-D001	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow	MI	1	
626-E001	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow	Ψ	1	
626-G002	Thermoplastic Detail Stripe, White	LF	3,234	
626-G003	Thermoplastic Detail Stripe, Yellow	LF	3,390	
626-H005	Thermoplastic Legend, White	5	828	
627-3001	Two-Way Clear Reflective High Performance Raised Markers	EA	158	
627-L001	Two-Way Yellow Reflective High Performance Raised Markers	Ā	156	
630-F006	Delineators, Guard Rail, White	A	22	

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PROJ NO: SP-9519-00(004)/SP-9520-00(001)/SP-951
PMS: 108715-301000/108715-302000/108715-30200

BETLENAME: 1008715 SQS
Chesign Team
Checked
Date: 502522020

FMS: 108715-301000/108715-302000/108715-303000

ST.	STATE PROJECT NO.	MISS SP-9519-00(004)/SP-9520-00(001)/SP-9513-00 (001)	
	ST	Σ	

ONLY TO BE USED AS DIRECTED BY THE PROJECT ENGINEER IF THE EXISTING CONDUIT IS DETERMINED TO BE UNUSABLE.
 CONTACT TRAFFIC ENGINEERING SO THAT THE TIMINGS FROM THE OLD CONTROLLERS CAN BE SWAPPED INTO THE NEW CONTROLLERS.

	SOMMANT OF CONTINES (SHEET 4)	1		
PAY ITEM NO.	PAY ITEM	LINO	Total Amount	int :
		; ;	Prelim	Final
202-B240	Removal of Traffic Stripe	-	006	
203-G002	Excess Excavation, LVM, AH	ζ	220	
304-A008	Granular Material, LVM, Class 6, Group D	S	2,952	
304-H001	3/4" and Down Crushed Stone Base, LVM	5	180	
	OR			
304-H002	Size 610 Crushed Stone Base, LVM	ბ	180	
	OR			
304-H003	Size 825B Crushed Stone Base, LVM	S	180	
403-A006	19-mm, ST, Asphalt Pavement	NOT	107	
403-A015	9.5-mm, ST, Asphalt Pavement	NOT	10,213	
406-D001	Fine Milling of Bituminous Pavement, All Depths	λS	36,117	
407-A001	Asphalt for Tack Coat	GAL	19,666	
907-411-A001	Ultra Thin Asphalt Pavement Leveling	NOT	3,860	
423-A001	Rumble Strips, Ground In	M	11	
613-D006	Adjustment of Manhole Cover and Water Valve	EA	11	
618-A001	Maintenance of Traffic	SI	1	
618-B001	Additional Construction Signs	SF	2	
619-A1001	Temporary Traffic Stripe, Continuous White	M	21	
619-A2001	Temporary Traffic Stripe, Continuous Yellow	IM	18	
619-A4002	Temporary Traffic Stripe, Skip Yellow	IM	8	
619-A5001	Temporary Traffic Stripe, Detail	LF	26,557	
619-A6001	Temporary Traffic Stripe, Legend	SF	920	
619-A6002	Temporary Traffic Stripe, Legend	ILF	9,774	
907-619-B001	Temporary Portable Rumble Strips	LF	198	
620-A001	Mobilization	ST	1	
626-C002	6" Thermoplastic Double Drop Edge Stripe, Continuous White	MI	13	
626-D001	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow	IM	7	
626-E001	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow	M	11	
626-G001	Thermoplastic Detail Stripe, Blue-ADA	5	308	
626-G002	Thermoplastic Detail Stripe, White	5	13,188	
626-G003	Thermoplastic Detail Stripe, Yellow	5	6,292	
907-626-H001	Thermoplastic Legend, Blue-ADA Handicap Symbol	B	4	
626-H004	Thermoplastic Legend, White	R	774	
626-H005	Thermoplastic Legend, White	5	8,323	
627-C001	Red-Clear Reflective Raised Markers	A	78	
627-3001	Two-Way Clear Reflective High Performance Raised Markers	Ā	098	
627-L001	Two-Way Yellow Reflective High Performance Raised Markers	A	1,235	
627-P001	Two-Way Blue Reflective High Performance Raised Markers	A	36	
630-F006	Delineators, Guard Rail, White	A	4	
907-632-D001	Solid State Traffic Actuated Controller, Type 1	Ā	4	
907-634-B001	Traffic Signal Equipment Pole Shaft Extension, 10'	A	4	
0000 200 200	Traffic Cional Conduit Hadorara and Tona A 2"	_	171	

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ers N	0. 3 No	3704 (Number C	ې ا	t'd	
	PORTATI	TO THE TENT	1 Working Number	0 SQ-5	Sheet Number	1
	MISSISSIPPI DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES - PROJECT TOTALS		PROJ NO: SP-9519-00(004)/SP-9520-00(001)/SP-951	FMS: 108715-301000/108715-302000/108715-30300	715 SQS	
	MISSISSIPPI DEF	Revision	PROJ NO: SP-9519-00(6	FMS: 108715-301000/10	#FILENAME: 1008715 SQS	20

Working Number	20-2	Sheet Number	1
SP-951	-30300		

12 Date <u>09/29/2021</u>

FILENAME: 1008715 SQS

SP-9519-00(004)/SP-9520-00(001)/SP-9513-00 (001) PROJECT NO. STATE MISS

FMS: 108715-301000/108715-302000/108715-303000

ONLY TO BE USED AS DIRECTED BY THE PROJECT ENGINEER IF THE EXISTING CONDUIT IS DETERMINED TO BE UNUSABLE.
 CONTROLLERS AND RADARS TO BE SALVAGED TO MDOT. EXISTING RADIOS, ANTENNAS, AND COAX CABLES TO BE COMPLETELY REMOVED.

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Final

Total Amoun 385 1,921

SUMMARY OF QUANTITIES (SHEET 5)

PAY ITEM

PAY ITEM NO.

Traffic Signal Conduit, Underground Drilled or Jacked, Rolled Pipe, 2" Video Vehide Detection Sensor, Type 1A Video Vehide Detection Cable

Removal of Existing Traffic Signal Equipment Radio Interconnect, Broadband, Short Range Network Switch, Type A Railway-Highway Provisions

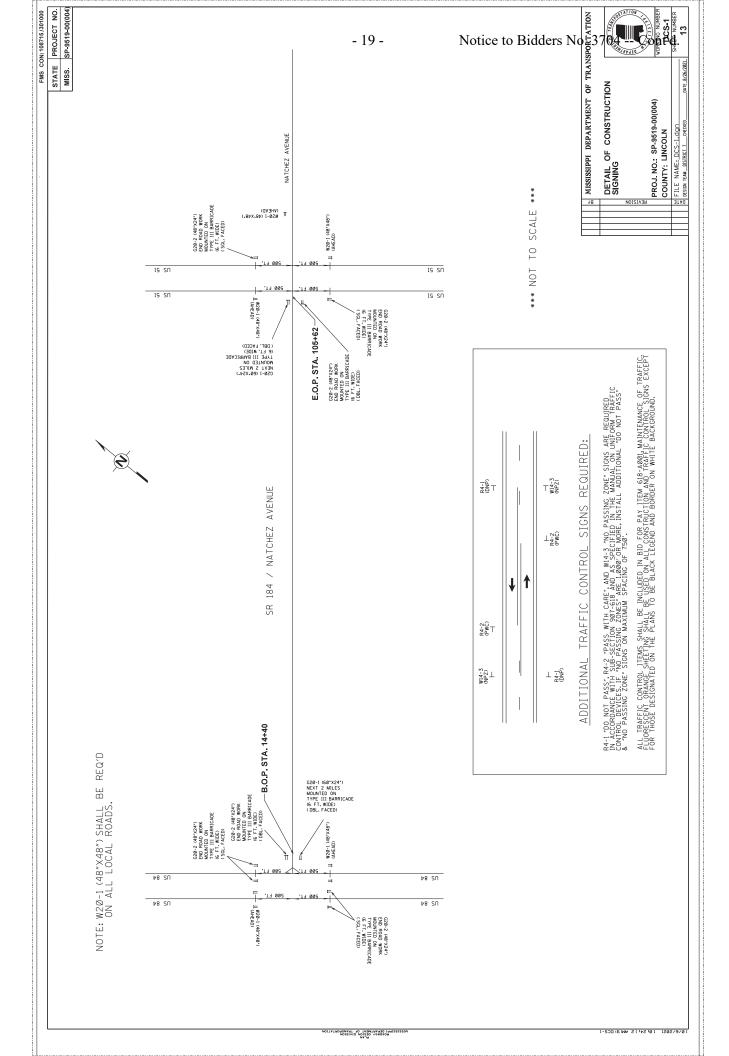
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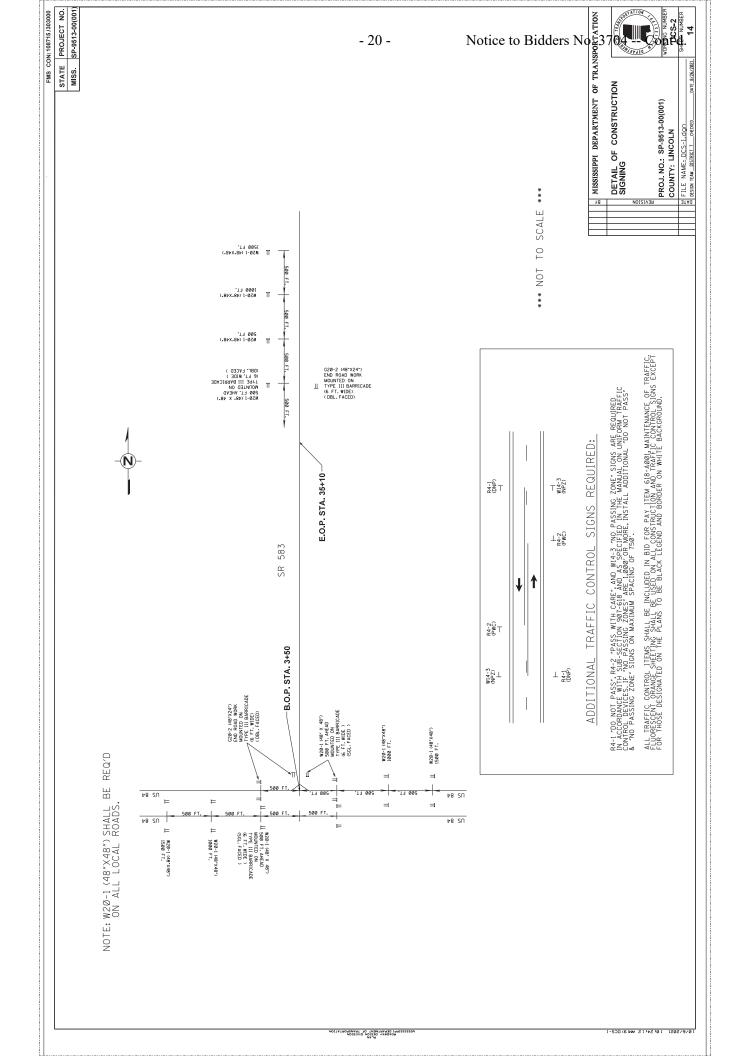
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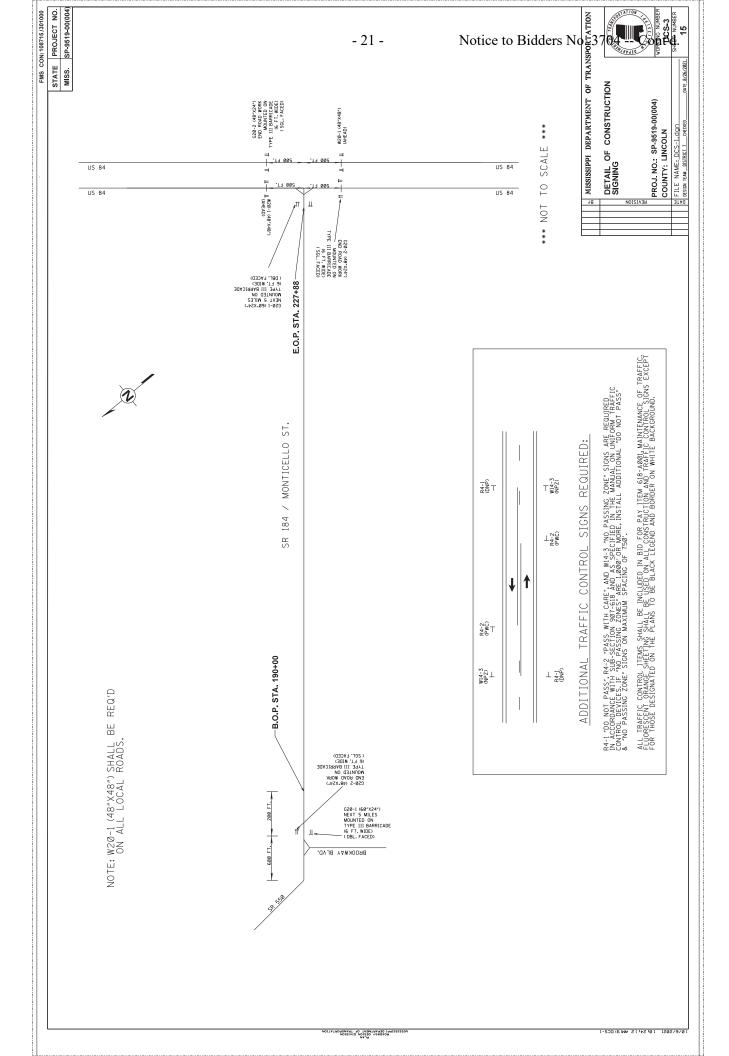
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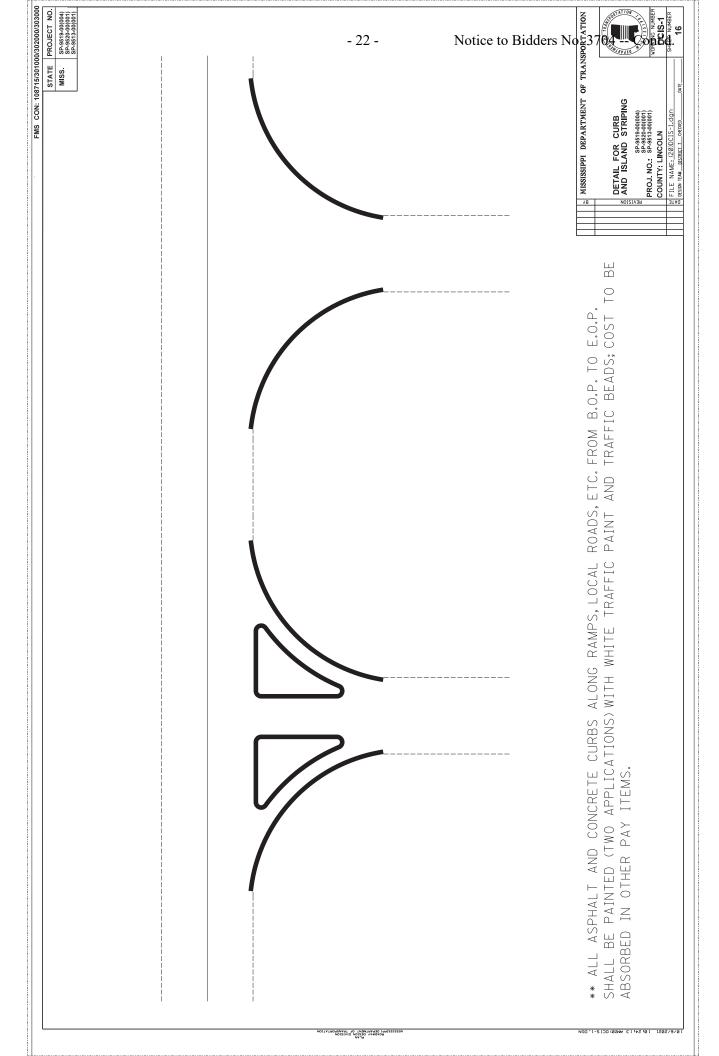
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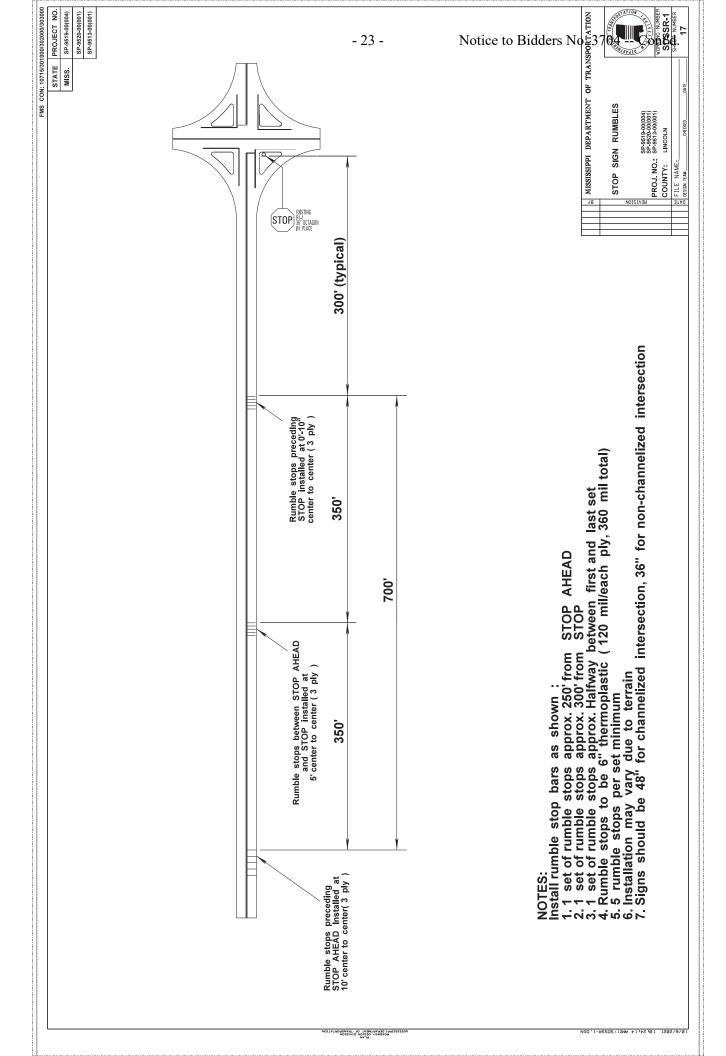
©	(3) RADIOS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION AND SHALL BE LOCATED AT MS 184.
	CHURCH ST., JACKSON ST., FIRST S AND SECOND ST., AND AT US 51 @
	BROOKWAY BLVD. ALL CABLING, MOUNTING, HARDWARE, ARRESTORS
	ETC. NECESSARY FOR A COMPLETE
	OPERABLE UNIT ARE COST ABSORBE
	MUHL AVO CLIT OHIEL

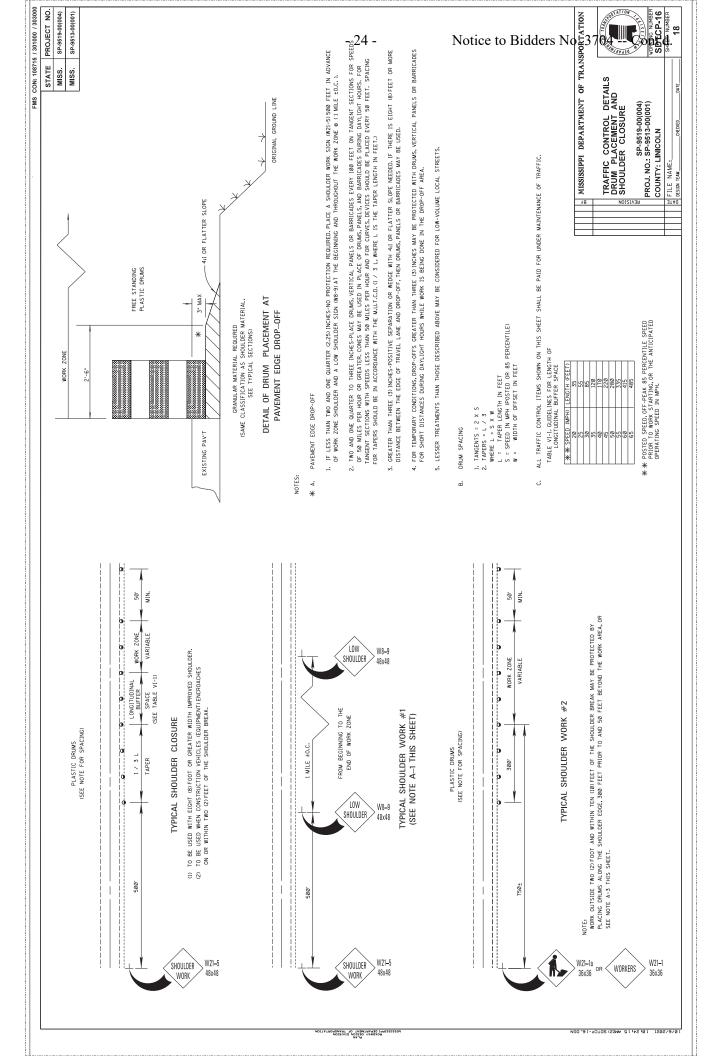


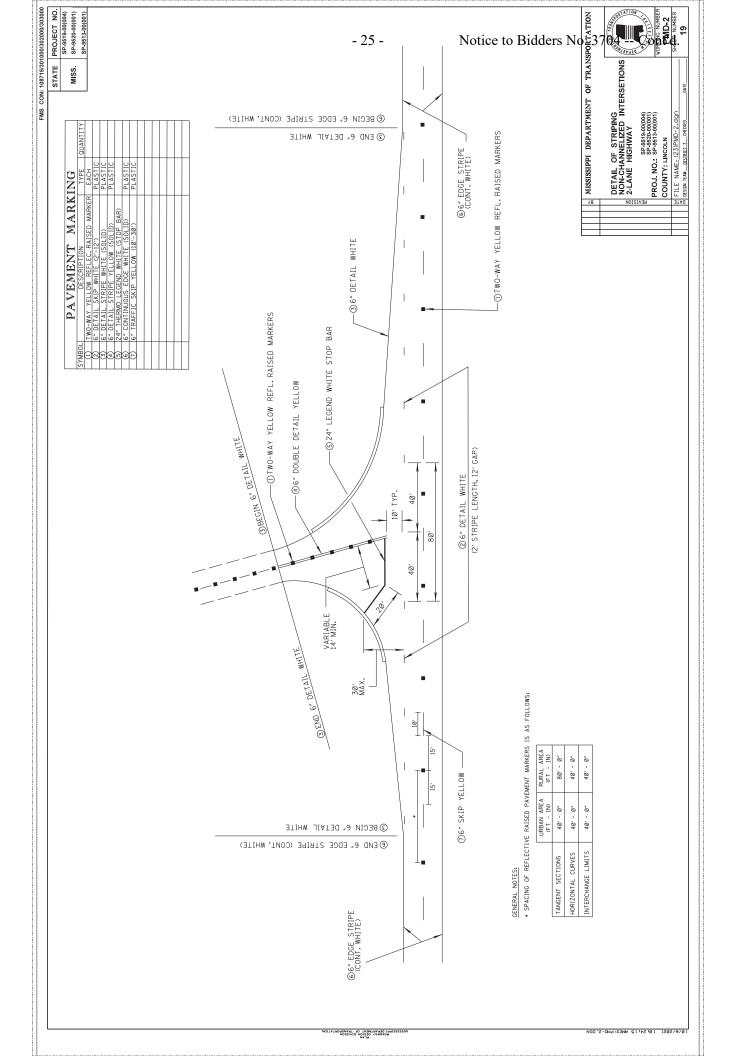


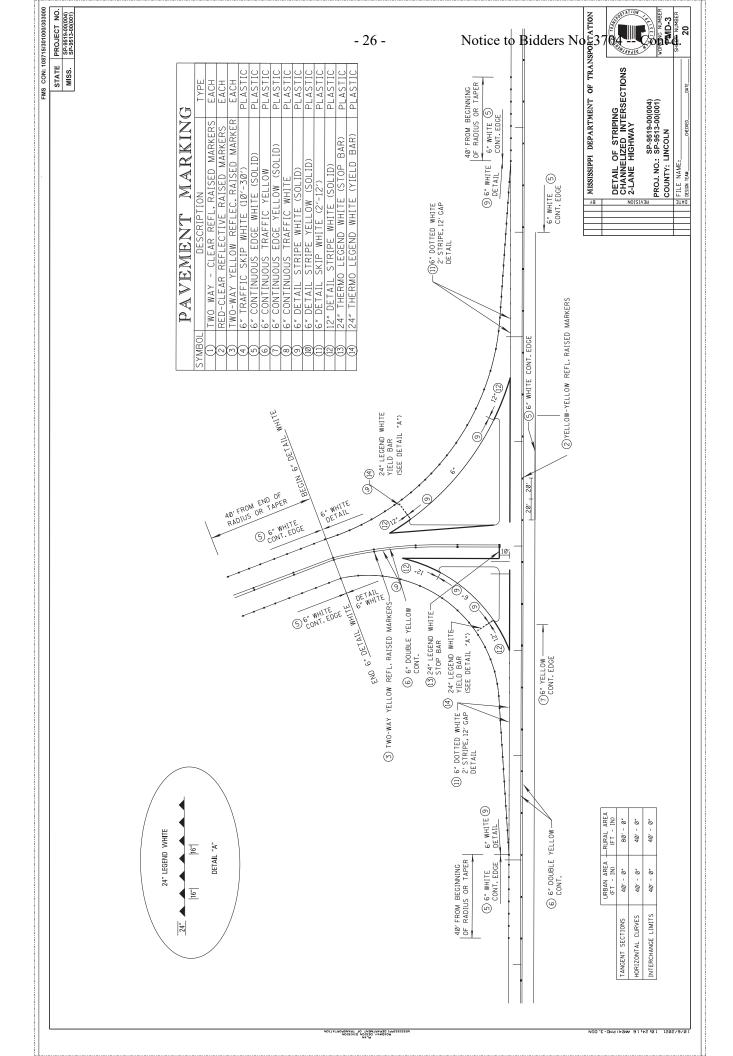


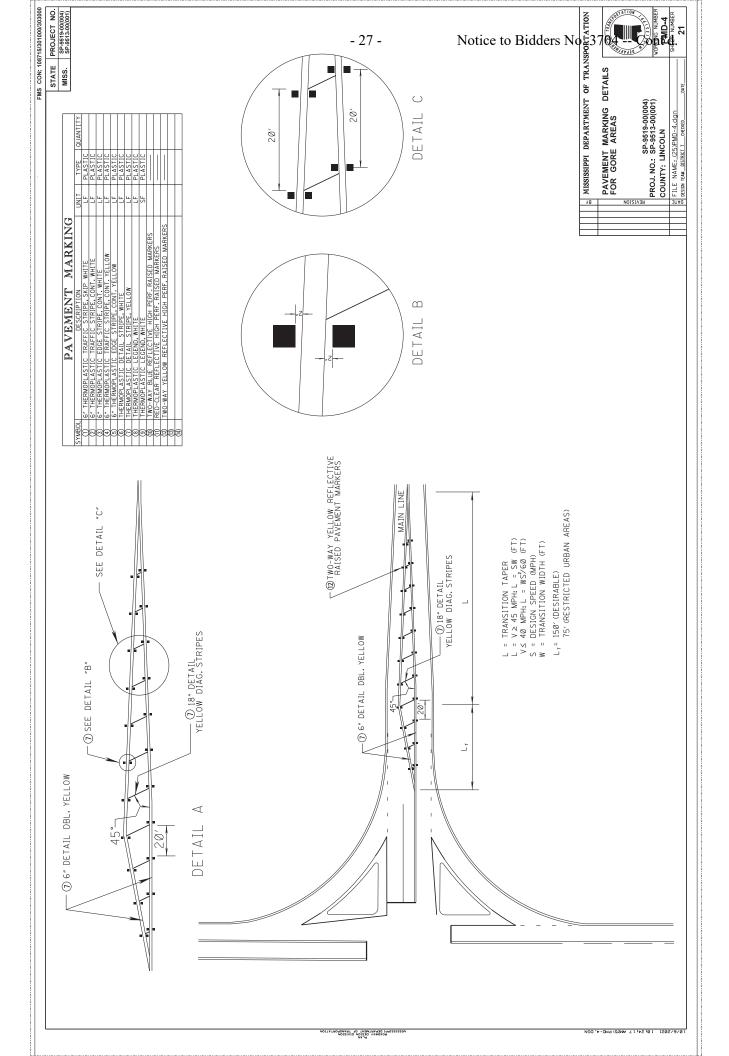


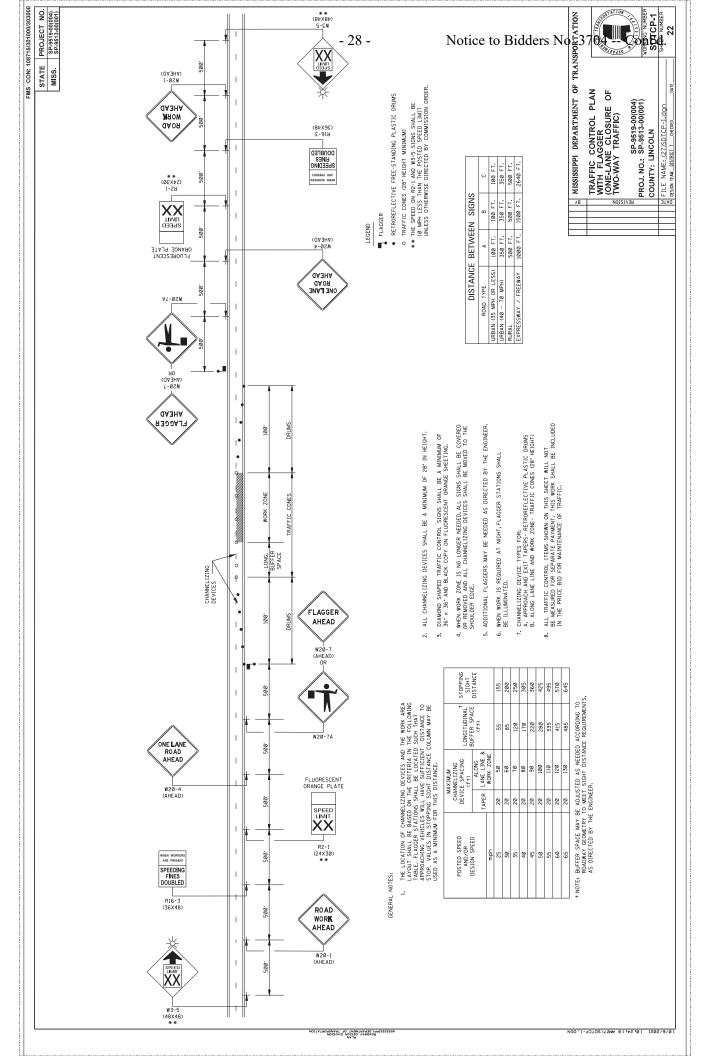


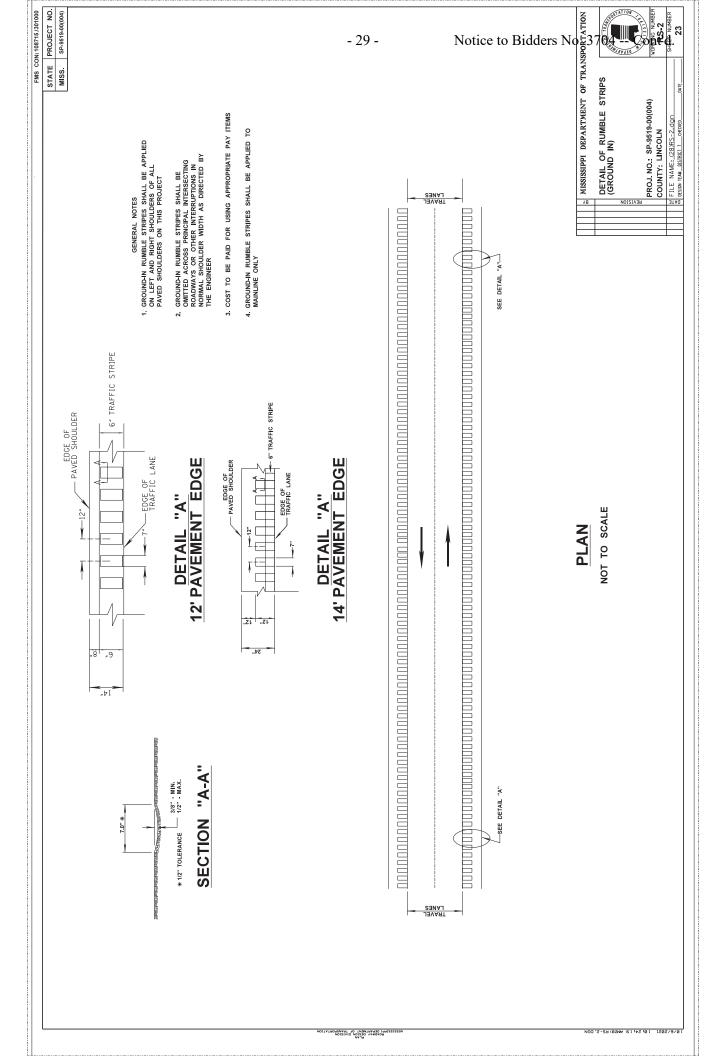


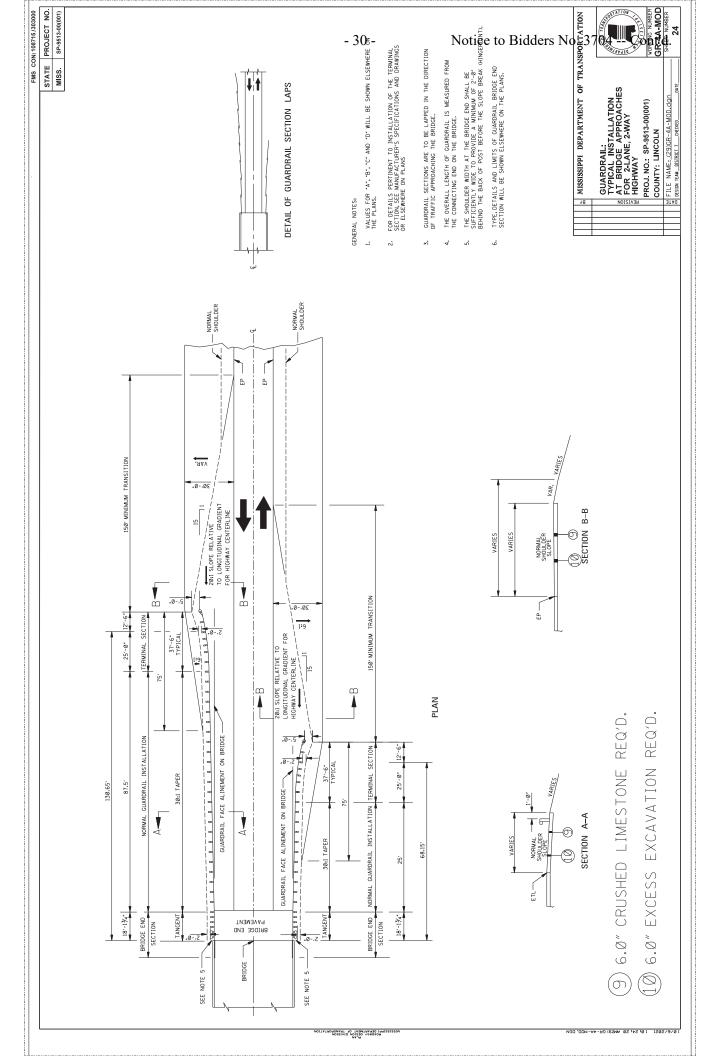


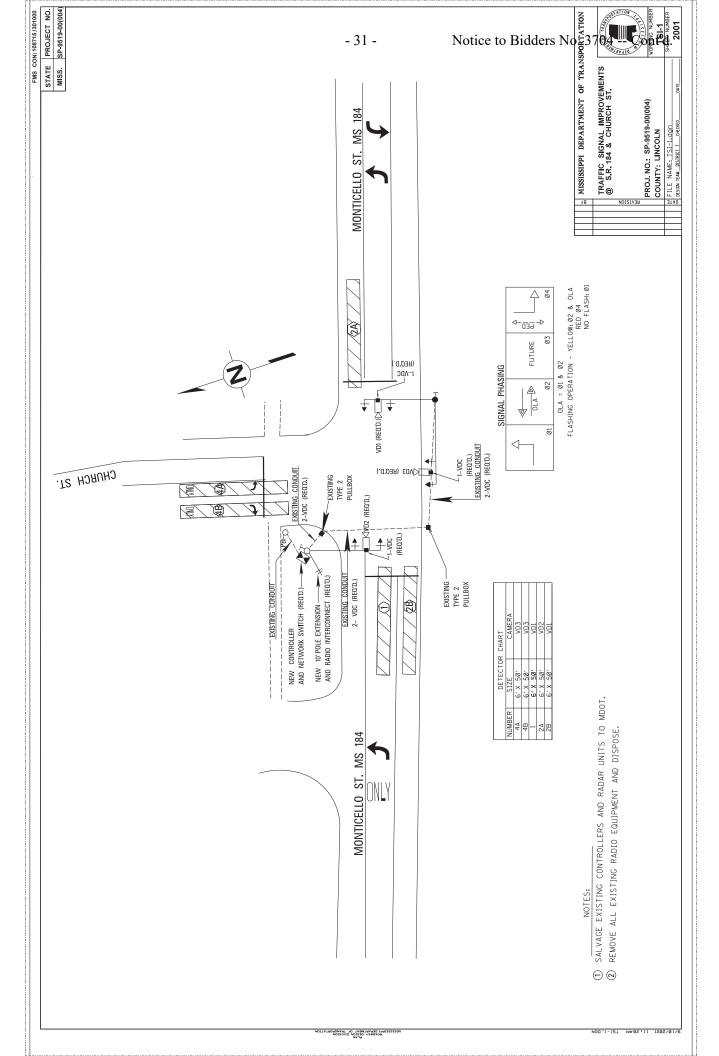


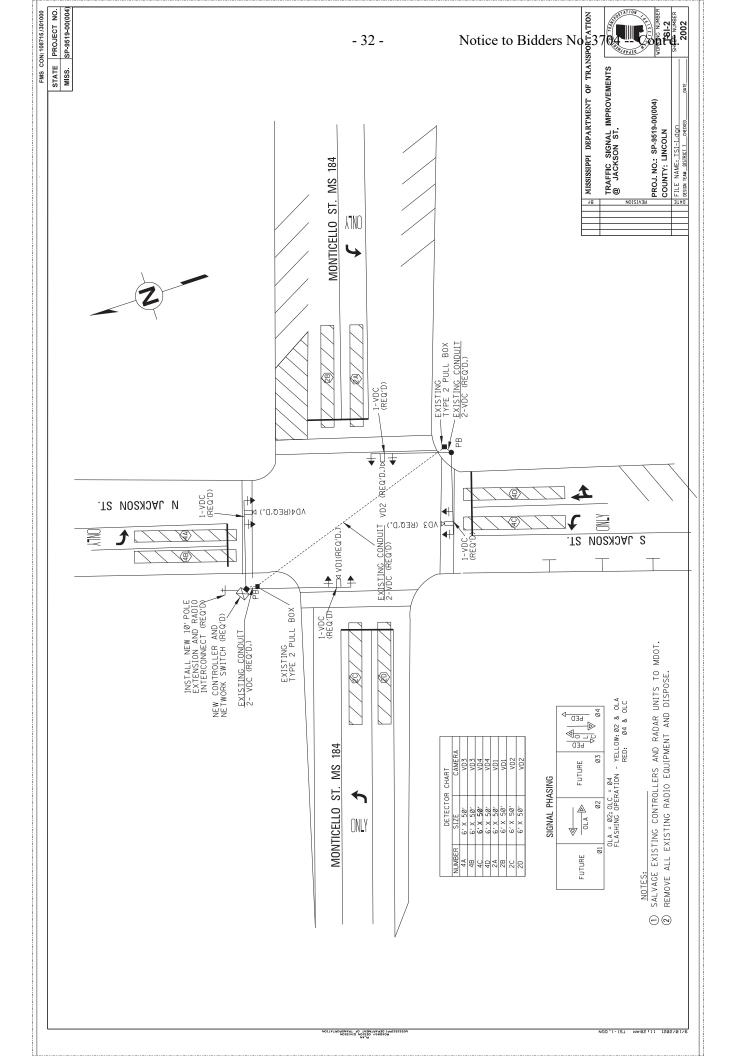


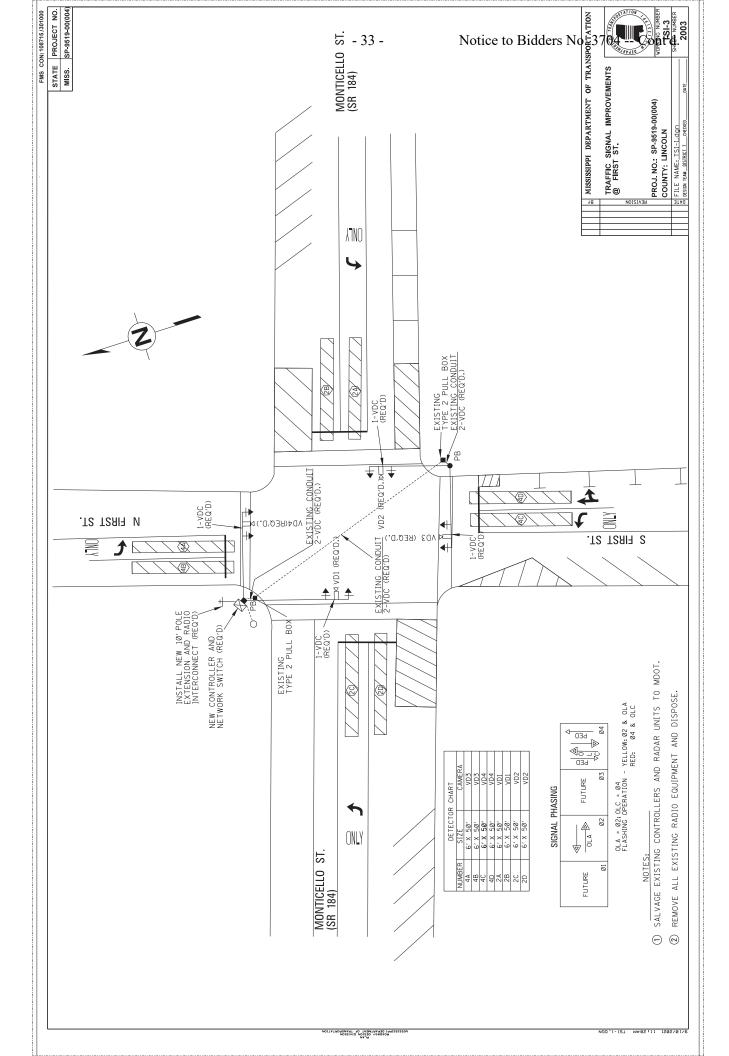


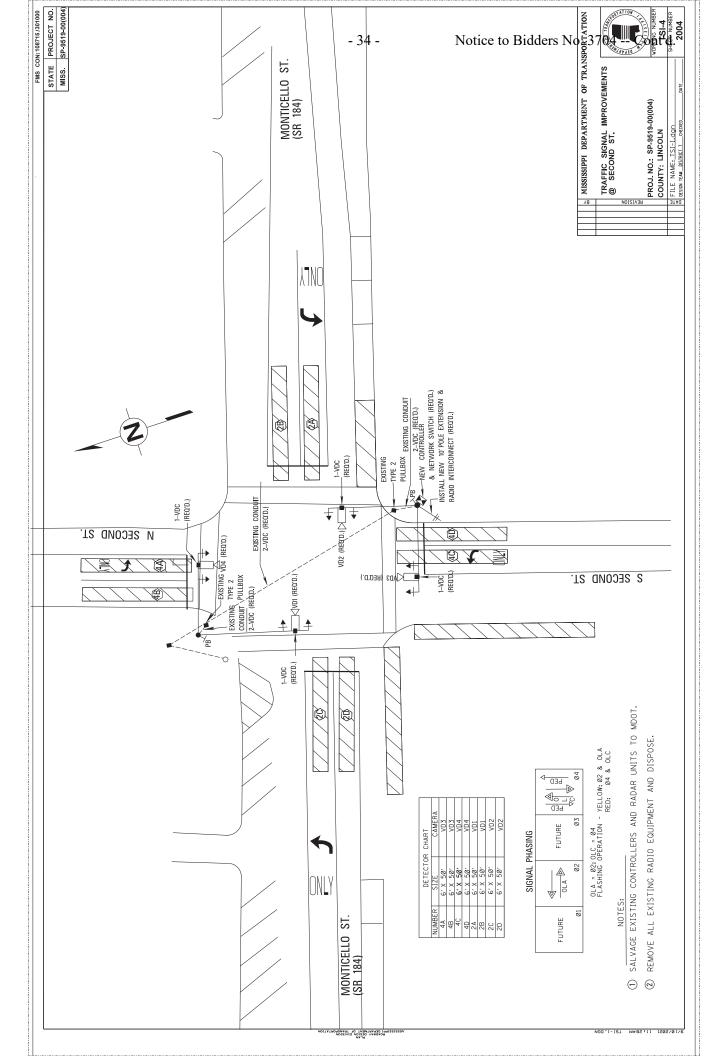












STATE	PROJECT NO.
MISS	SP-9519-00(004)

- DEVICES AND HIGHWAY DESIGN AND OPERATIONAL PRACTICES RELATED TO HIGHWAY SAFETY. POLES, SIGNAL HEADS, EQUIPMENT BOXES, PULLBOXES AND CONDUIT LOCATIONS MAY BE VARIED SLIGHTLY TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. HOWEVER, SIGNAL HEAD OR POLE LOCATIONS SHALL BE WITHIN REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTRO
- SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS. USE FATIGUE CATEGORY II, USE 60 YEAR DESIGN SERVICE LIFE AND DO NOT CONSIDER CALLOPING OR TRUCK-INDUCED GUSTS, WIND AND ICE LOADS VARABLE BASED UPON MAPS IN THE 2013 AASHTO SPECIFICATION. USE UPSWEPT THE CONTRACTOR SHALL PROVIDE MAST ARM POLE DESIGN CERTIFICATION AND CALCULATIONS AS OUTLINED IN SECTION 722.02 OF STANDARD SPECIFICATIONS. DESIGN STANDARD FOR MAST ARMS POLES SHALL BE <u>2013 AASHTO STANDARD</u> MAST ARMS UNLESS OTHERWISE NOTED ON PLANS. SEE TSD 3.
- POLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR IN ACCORDANCE WITH THE PLANS AND SECTION 722.02 OF THE STANDARD SPECIFICATIONS, UNLESS DETERMINATION OF REQUIRED SIZES, LENGTHS AND GAUGES OF TYPE I - XI STEEL OTHERWISE SPECIFIED IN PLANS OR SPECIFICATIONS.
- TRAFFIC SIGNAL MAST ARM POLES SHALL BE HOT DIPPED GALVANIZED WITH FINISH APPROVED BY THE ENGINEER
- TRAFFIC SIGNAL MAST ARM POLES REQUIRING LUMINAIRES ARE DESIGNATED BY (L). ALL LUMINAIRES SHALL BE LED UNLESS OTHERWISE NOTED ON PLANS.
 - STAINLESS STEEL TAG ATTACHED TO THE POLE SHAFT USING 3/16 INCH STAINLESS STEEL POP RIVETS WITH PROPERTIES AND INFORMATION AS FOLLOWS: - MINIMUM 1/16 INCH THICKNESS
 - MINIMUM 1/4 INCH STAMPED LEGEND WITH FOLLOWING INFORMATION:
 - -- MANUFACTURER NAME
 - -- UNIQUE IDENTIFYING NUMBER FOR FUTURE MANUFACTURER -- MONTH / YEAR OF MANUFACTURE

NAJA NOITATROGENART TO THEMSPORTATION TO THEMSPORTATION

- REFERENCE
- EXTERNAL PROJECT NUMBER FROM THE PLANS COVER SHEET (EXAMPLE: STP-XXXX-XX...
- TAG TO BE INSTALLED ON SHAFT SIDE OPPOSITE THE MAINLINE HIGHWAY AND LOCATED APPROXIMATELY 48 INCHES ABOVE THE TOP OF BASE PLATE.
- THE TOP OF THE STRAIN POLE FOUNDATION SHALL BE 6" ABOVE THE GROUND. THE CONTRACTOR SHALL PROVIDE POLES OF SUFFICIENT LENGTH PLUS 2 FEET TO PROVIDE REQUIRED VERTICAL CLEARANCE OF THE TRAFFIC SIGNAL HEADS WITHOUT EXTENDING THE POUNDATION ABOVE THE GROUND LINE OF THE POINT WHERE THE POLE IS LOCATED, EVEN THOUGH THIS MAY BE BELOW THE FINISHED GRADE OF THE
- ALL STRAIN POLES AT AN INTERSECTION SHALL BE THE SAME DIAMETER AND UTILIZE THE SAME BOLT CIRCLE SPACING.
- POLE FOUNDATIONS AND BASE MOUNTED CABINET FOUNDATIONS, GRADE SHALL BE ESTABLISHED TO ±3" OF EDGE OF PAVEMENT ELEVATION UNLESS APPROVED BY SIGNAL PROJECT ENGINEER.
- TRAFFIC SIGNAL HEADS SHALL BE BLACK IN COLOR UNLESS OTHERWISE NOTED ON PLANS WITH BLACK BACK PLATES . 01
- 11. PEDESTRIAN HEADS SHALL BE BLACK IN COLOR UNLESS OTHERWISE NOTED ON
- SIDE OF POLE LOCATIONS OF PUSHBUTTONS MAY BE FIELD ADJUSTED. PUSHBUTTON PEDESTRIAN PUSHBUTTONS SHALL BE EITHER STANDARD PUSHBUTTONS OR APS INCLUDED IN PAY ITEM FOR PEDESTRIAN PUSHBUTTONS AT NO ADDITIONAL COST. HARDWARE SHALL BE BLACK IN COLOR UNLESS OTHERWISE NOTED ON PLANS. (ACCESSIBLE PEDESTRIAN SYSTEM) STYLE AS NOTED ON PLANS. SIGNS TO BE 12
- FIELD DRILL AND TAP EXISTING POLES WHERE PEDESTRIAN SIGNALS AND PUSHBUTTONS ARE REQUIRED ON PLANS. (ABSORBED ITEM). 3

TRAFFIC SIGNAL CABINETS AND CONTROLLERS SHALL BE WIRED TO PROVIDE FOR ALL PHASES INCLUDING FUTURE PHASES IN ACCORDANCE WITH THE PHASE SEQUENCE

GENERAL NOTES

IRAFFIC SIGNAL

- UNITS. TRAFFIC SIGNAL CONTROLLER CABINET SHALL HAVE A 16 LOAD BAY FACILITY, REAR ACCESS DOOR, LAPTOP TRAY. AND DUAL POSITION INTERNAL LED LIGHTING. ALL TRAFFIC SIGNAL CONTROLLER CABINETS SHALL HAVE A FOSITION CARE RACK AND ONE 175 WATT MINIMUM POWER SUPPLY AND 4 AVAILABLE SLOTS UNLESS THE FLASHING YELLOW ARROW. ALL MMU'S SHALL BE ETHERNET READY, 16 CHANNEL, AND CAPABLE OF RUNNING 12 DIFFERENT MODES OF FLASHING YELLOW ADDRESSES ON ALL NETWORKABLE DEVICES, DEVICES INCLUDE BUT NOT LIMITED WITH MDOTS EXISTING TRAFFIC SIGNAL MANAGEMENT SOFTWARE. ALL TRAFFIC SIGNAL CONTROLLER FIRMWARE SHALL BE CAPABLE OF DELAYING THE ONSET OF TO: CONTROLLER, MMU WITH SDLC CABLE (CONFLICT MONITOR), AND DETECTION ALL TRAFFIC SIGNAL CONTROLLERS SHALL ETHERNET READY, AND COMPATIBLE ARROW OPERATION, THE CONTRACTOR SHALL COORDINATE WITH MDOT FOR IP OTHERWISE NOTED ON PLANS. SEE 907-632.02.6.1. 15
- ARROW, AND ENDING WITH A SOLID RED ARROW. THE PERMITTED PORTION OF THIS OPERATION SHALL START WITH A FLASHING YELLOW ARROW, FOLLOWED BY A SOLID FOR PROTECTED/PERMITTED LEFT TURN PHASING USING TYPE 2 FYA TRAFFIC SIGNAI (AS DIRECTED BY THE ENGINEER) BETWEEN THE END OF THE PROTECTED PORTION OF THE PREMITTED PORTION OF THE DEFAULT. DIRECTION OF THE DEFAULT. DIRECTION OF THIS OPFERATION. DIRECTION OF THIS DELAY, THE OPPOSING PHASE THRU HEADS ARE CAPABLE OPERATION SHALL DISPLAY A SOLID GREEN ARROW, FOLLOWED BY A SOLID YELLOW YELLOW ARROW, AND ENDING WITH A SOLID RED ARROW. THERE SHALL BE A DELAY OF DISPLAYING A GREEN BALL. SIGNAL CONTROLLER WITH FIRMWARE NECESSARY TO ACCOMPLISH THIS DELAY SHALL BE PROVIDED. HEADS, OPERATION SHALL BE AS FOLLOWS: THE PROTECTED PHASE OF THIS 16.
- POLES AND FOUNDATIONS OF EXISTING SIGNAL INSTALLATION REMOVALS SHALL BE CUT OFF 6" BELOW GROUND, REMOVED AND AREA RESTORED TO MATCH ADJACENT SURFACE AS DIRECTED BY THE ENGINEER. 17.
- ALL REMOVED EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS SPECIFIC ITEMS ARE NOTED IN THE PLANS TO BE SALVAGED AS DIRECTED BY THE ENGINEER. 8
- THE CONTRACTOR SHALL BE RECURED TO PROVIDE ELECTRICAL SERVICE FROM THE POWER COMPANY SERVICE POINT TO THE POWER SERVICE PEDESTAL. FOR SPAN WIRE INSTALLATION, POWER SHALL RUN FROM THE POWER COMPANY SERVICE PROM WIRE INSTALLATION, POWER SHALL RUN FROM THE POWER COMPANY SERVICE. POINT AERIAL TO THE SIGNAL POLE NEAREST THE CONTROLLER, THE SERVICE SHALL CONTROLLER CABINET, AS SHOWN ON THE PLANS. A DISCONNECT SHALL BE INSTALLED AT THE POWER COMPANY SERVICE POLE FOR MAST ARM INSTALLATIONS. INSTALLATION, POWER SHALL RUN FROM THE POWER COMPANY SERVICE POINT UNDERGROUND DIRECTLY TO THE POWER SERVICE PEDESTAL, THEN TO THE THEN RUN TO THE CONTROLLER AS SHOWN ON THE PLANS. FOR MAST ARM 9
- POWER SERVICE METER SHALL NOT BE MOUNTED ON THE CONTROLLER CABINET OR MAST ARM POLE SHAFTS. A SEPARATE POWER SERVICE PEDESTAL FOR MOUNTING THESE ITEMS IS REQUIRED. (SEE TSD-6 & TSD-7). BLACK CONDUCTORS SHALL BE USED FOR ALL LINE (HOT) WIRES AND WHITE CONDUCTORS SHALL. BE USED FOR ALL NEUTRAL WIRES. 20.
- EXISTING SYSTEM, THE MONTHLY SERVICE FEES SHALL CONTINUE TO BE PAID BY THE DEPARTMENT OR THE LOCAL AGENCY. IF THE EXISTING POWER SERVICE IS DEPARTMENT OR THE LOCAL AGENCY WILL BE RESPONSIBLE FOR PAYMENT OF THE WONTHLY SERVICE BILL FOR THE NEW POWER SERVICE INSTALLATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SWAP THE ELECTRICAL SERVICE NTENDED FOR USE WITH A NEW SIGNAL SYSTEM, THEN ANY SERVICE CHARGE FEES WHEN ELECTRIC POWER SERVICE EXISTS AND IS USED FOR THE OPERATION OF AN SUPPLY ASSEMBLY FOR ANY NEW INSTALLATION. THE CONTRACTOR SHALL PAY FOR, AT NO COST TO THE DEPARTMENT, ALL DEPOSITS, HOOK-UP CHARGES, OR ARRANGEMENTS WITH THE LOCAL POWER COMPANY TO PROVIDE THE POWER IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE THE NECESSARY ESTABLISHMENT OF NEW SERVICE. THE COST OF ALL SUCH FEES SHALL BE CONSIDERED INCIDENTAL AND ABSORBED WITHIN EXISTING PAY ITEMS. THE OTHER SERVICE FEES REQUIRED BY THE POWER COMPANY FOR THE ACCOUNT OVER TO THE DEPARTMENT OR LOCAL AGENCY. 21.

SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SIMILARLY, IF AN EXISTING THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF ALL SUCH FEES SHALL POWER SERVICE IS TO BE DISCONNECTED, ANY SERVICE CHARGE FEES SHALL CONSIDERED INCIDENTAL AND ABSORBED WITHIN EXISTING PAY ITEMS.

- WHEN CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY SIGNALS TO ACCOMMODATE ROADWAY CONSTRUCTION, IT SHALL BE PAID FOR UNDER PAY ITEM 619-H1, TRAFFIC SIGNAL, LUMP SUM, UNLESS OTHERWISE NOTED ON PLANS. 22.
- VEHICLE LOOP ASSEMBLIES SHALL BE INSTALLED IN THE TOP LAYER OF BINDER OR EXISTING SURFACE BEFORE THE FINAL SURFACE COURSE IS APPLIED (BASED ON 2" FINAL LIFT MAXIMUM). 23.
- OTHER THAN CABLE LENGTHS, MANUFACTURER TO HAVE FACTORY REPONSITE DURING INSTALLATIONS UNLESS CERTIFIED BY THE MANUFACTURER. DETECTION CABLE WILL BE MEASURED BY THE LINEAR FOOT, MEASURED HORIZONTALLY ALONG THE CONDULT, MESSENGER CABLE OR MAST ARM AND VERTICALLY ALONG THE FOLE. DETECTION CABLE FOR CAMERAS, THE POWER AND VIDEO CABLE MAY BE IN THE POLE. LAYOUT FOR DETECTION, DETECTOR MAY BE RELOCATED PER MANUFACTURER'S RECOMMENDATIONS, THERE SHALL BE NO EXTRA PAY FOR MOVING OF DETECTORS WHEN RADAR, VIDEO , OR MULTI-SENSOR DETECTION IS USED, THE SYSTEM MAY REQUIRE BOTH STOP BAR AND ADVANCE DETECTION. TSI PLANS SHOW A GENERIC SAME JACKET 24.
 - ALL DETECTION UNITS SHALL BE NETWORKABLE DEVICES AND BE ON THE MDOT NETWORK IF NOTED ON PLANS.
- ALL GROUNDING EQUIPMENT SHALL BE COST ABSORBED. 25.
- MESSENGER CABLE AND OTHER SUPPORTING DEVICES WHERE REQUIRED SHALL BE ABSORBED IN THE PAY ITEMS FOR SIGNAL CABLE. 26.
- 35 THE CONTRACTOR SHALL STAKE THE LOCATION OF EACH POLE FOUNDATION AND NOTIFY THE PROJECT ENGINEER FOR CONCURRENCE IN THE LOCATION BEFORE PROCEEDING WITH THE PURCHASE OF THE POLE. 27.
- THE CONTRACTOR SHALL BE REQUIRED TO ADEQUATELY AND COMPLETELY COVER TRAFFIC SIGNAL HEADS DURING TIMES THAT THEY ARE NOT IN OPERATION WITH A DURABLE, OUTDOOK, HARDEND MATERIAL THAT CONTRASATS WITH THE COLOR OF THE HEAD THAT CLEARLY DESIGNATES THAT THE SIGNAL IS NOT IN "STOP AND GO". MODE. HEAD COVERS ARE TO BE APPROVED BY THE ENGINEER. 28.

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- A MID-WEEK WEEKDAY (THESDAY —THUSBOAY) DURING A NON-PEAR TIME AND SHALL'NG BE COORDINATED WITH THE CHONNERS. UND NUTRILL MUSPECTION AND ACCEPTANCE OF TESTING OF THE NEW TRAFIC SIGNAL INSTALLATION, THE CONTRACTOR SHALL REQUEST THE START OF THE 30 DAY BURNIN PERIOD TO COMMENCE. AS OUTLINED DIN NO SUBSECTION 831.034 OF THE SPECIFICATION. ANY OYED DEFICIENCIES FOUND WITHIN THAT 30 DAY PERIOD SHALL BE CORRECTED TO THE SATISFACTION OF THE DISCHARD SHALL BE CORRECTED TO THE SATISFACTION OF THE DISCHARD SHALL BE CORRECTED TO THE SATISFACTION OF THE DISCHARD SHOWN WITHIN THAT 30 DAY PERIOD SHALL BE CORRECTED TO THE PROJECT IS GRANTED.

 30. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING FINAL INSPECTION MEETING WITH DISTRICT OFFICE, PROJECT OFFICE AND TRAFFIC ENGINEERING FOR SIGNAL PORTION OF THE PROJECT. PERIOD OF THREE (3) TO SEVEN (7) DAYS PRIOR TO THE ACTIVATION OF THE SIGNAL'S "STOP AND GO" OPERATION. ACTIVATION OF NEW TRAFFIC SIGNALS SHALL BE DURING A NEW TRAFFIC SIGNAL INSTALLATION SHALL BE PUT IN FLASH OPERATION FOR A 29.
 - 30.

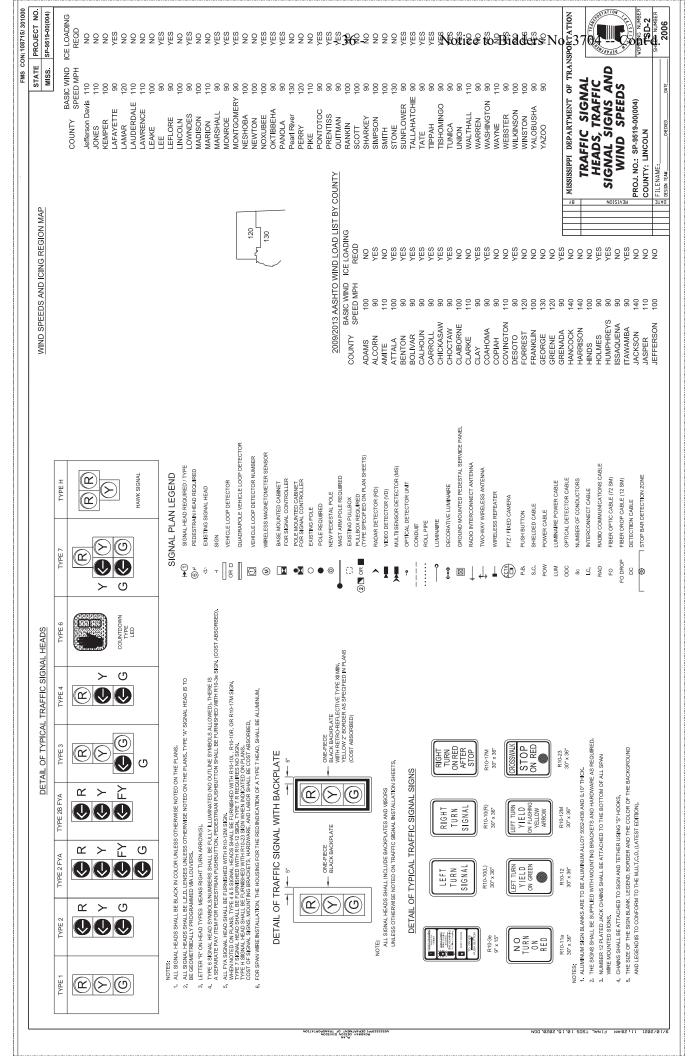
MISSISSIPPI DEPARTMENT OF TRANSPORTATION TRAFFIC SIGNAL **GENERAL NOTES**

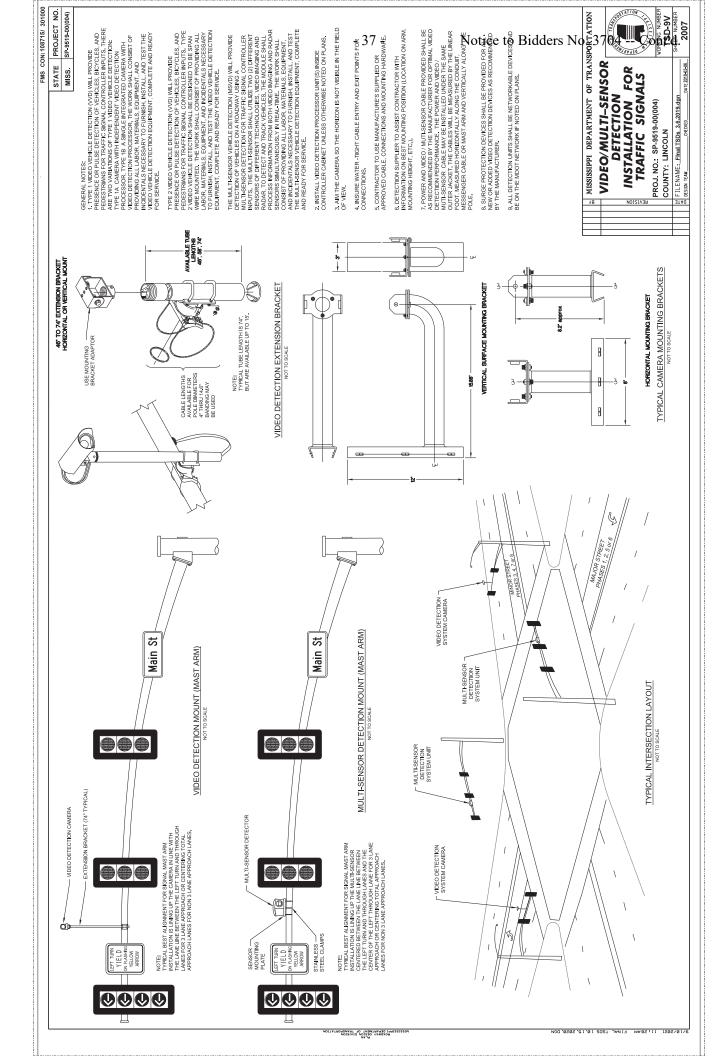
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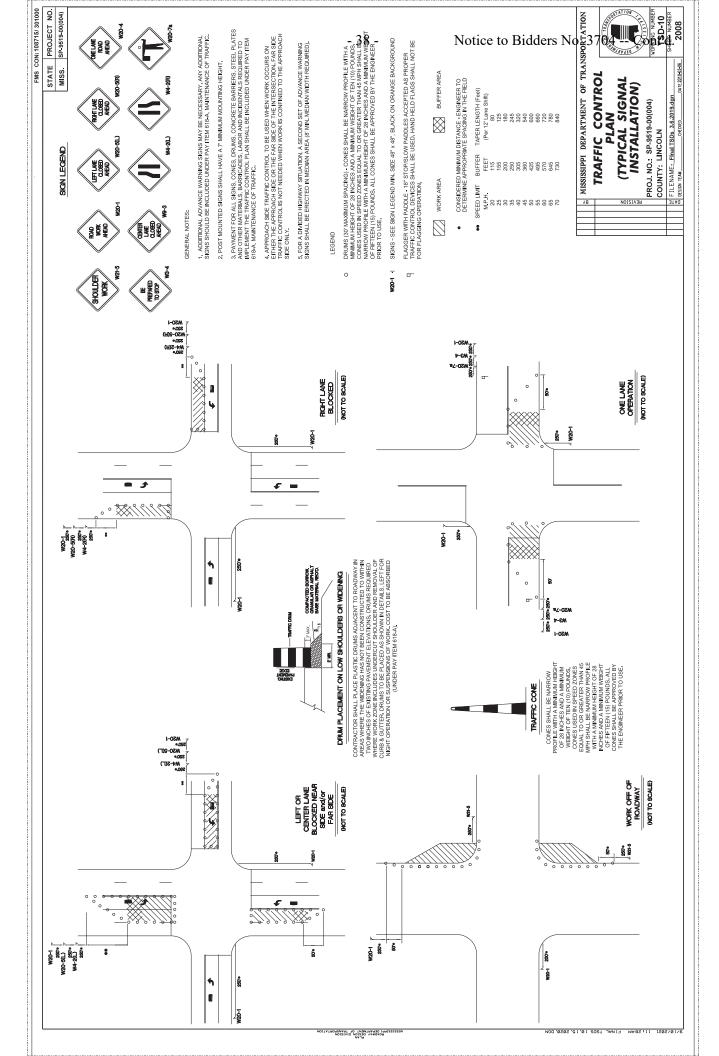
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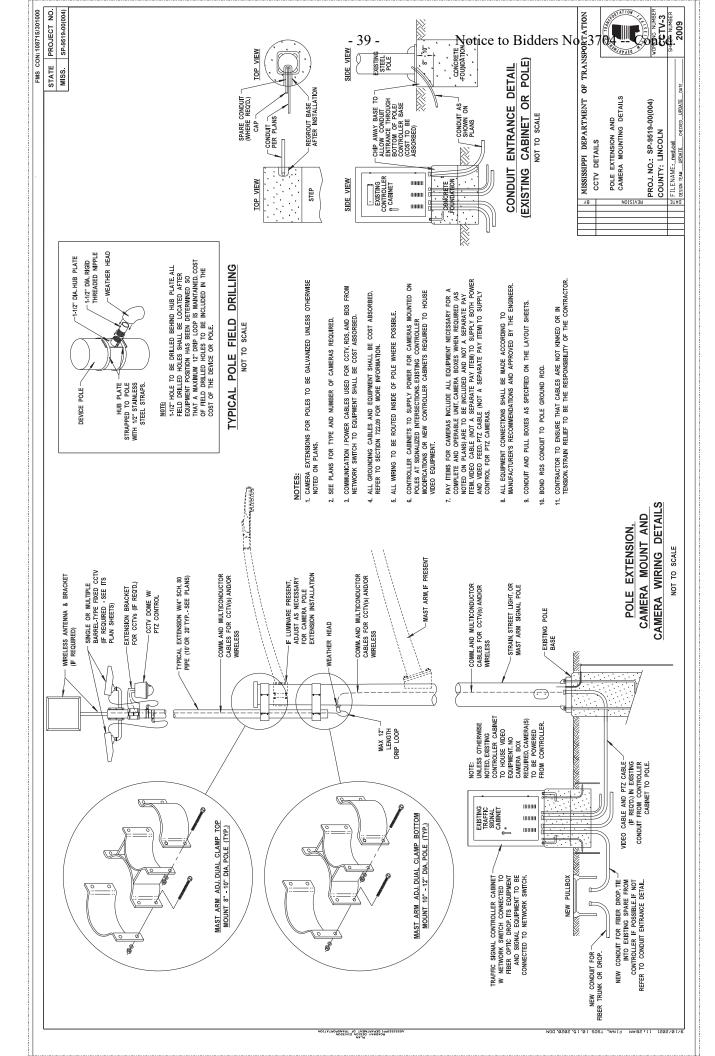
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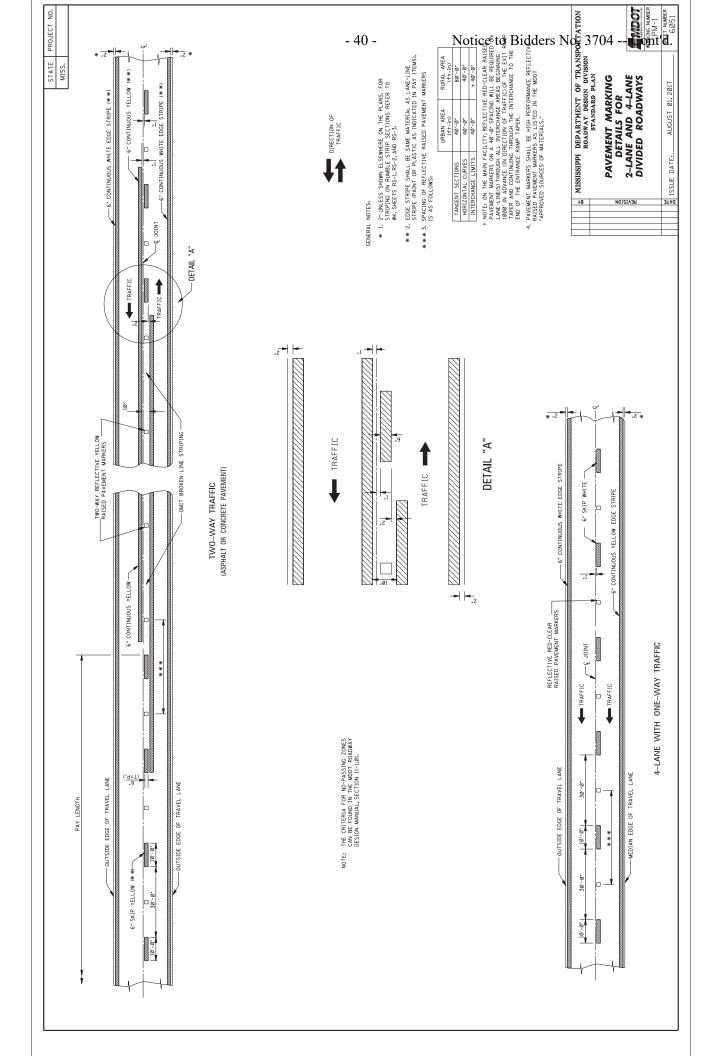
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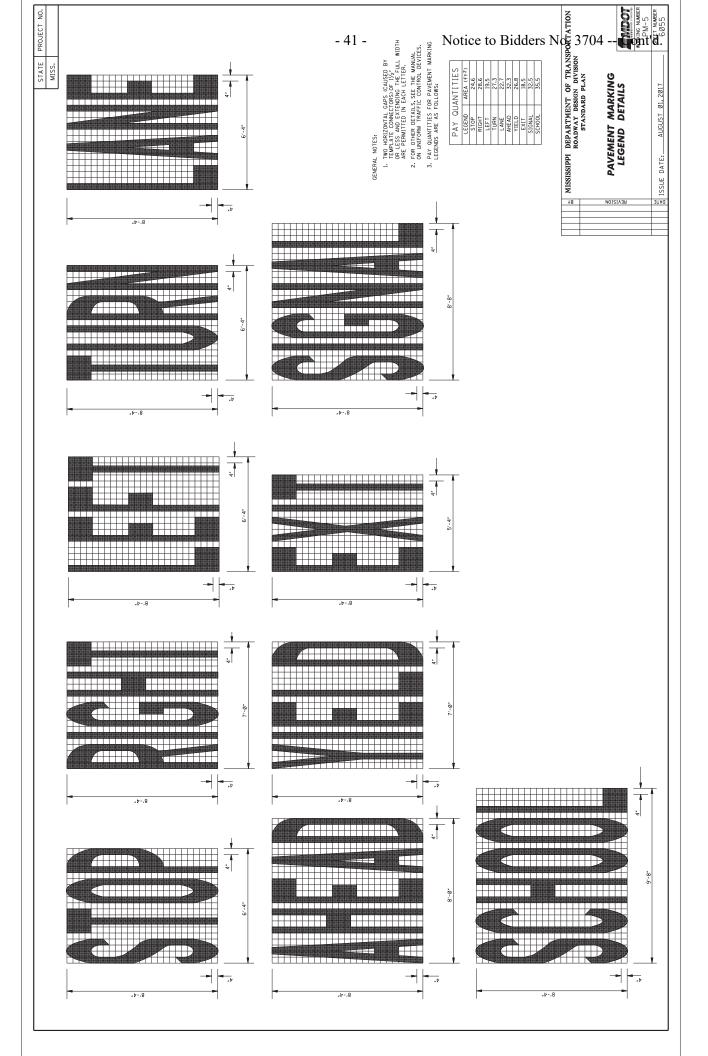


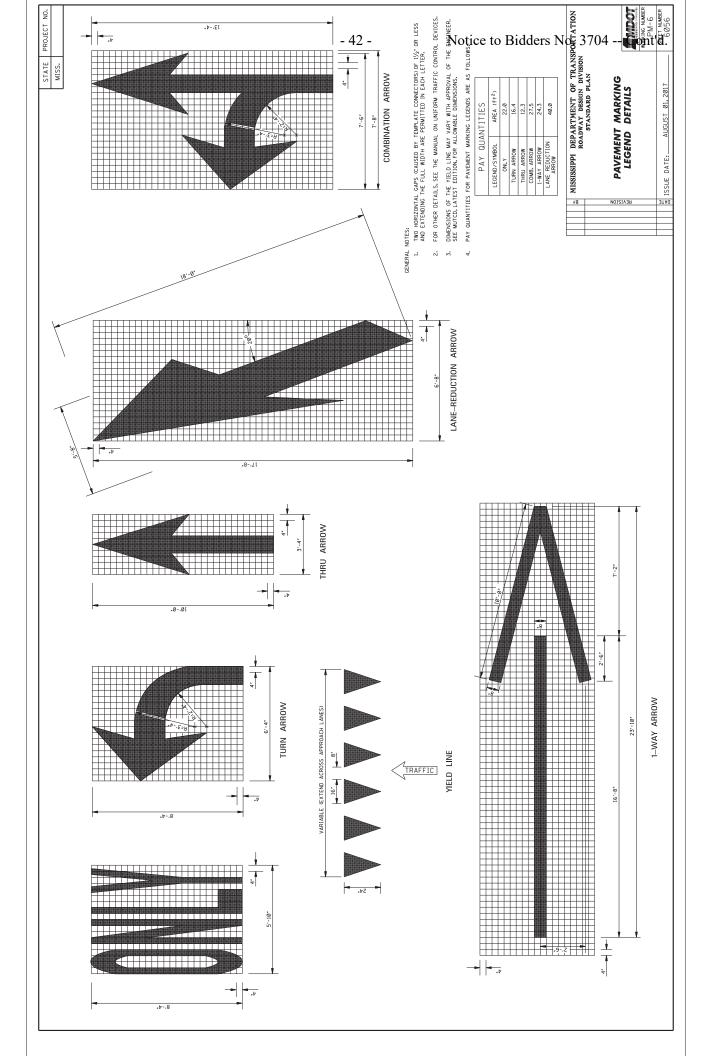


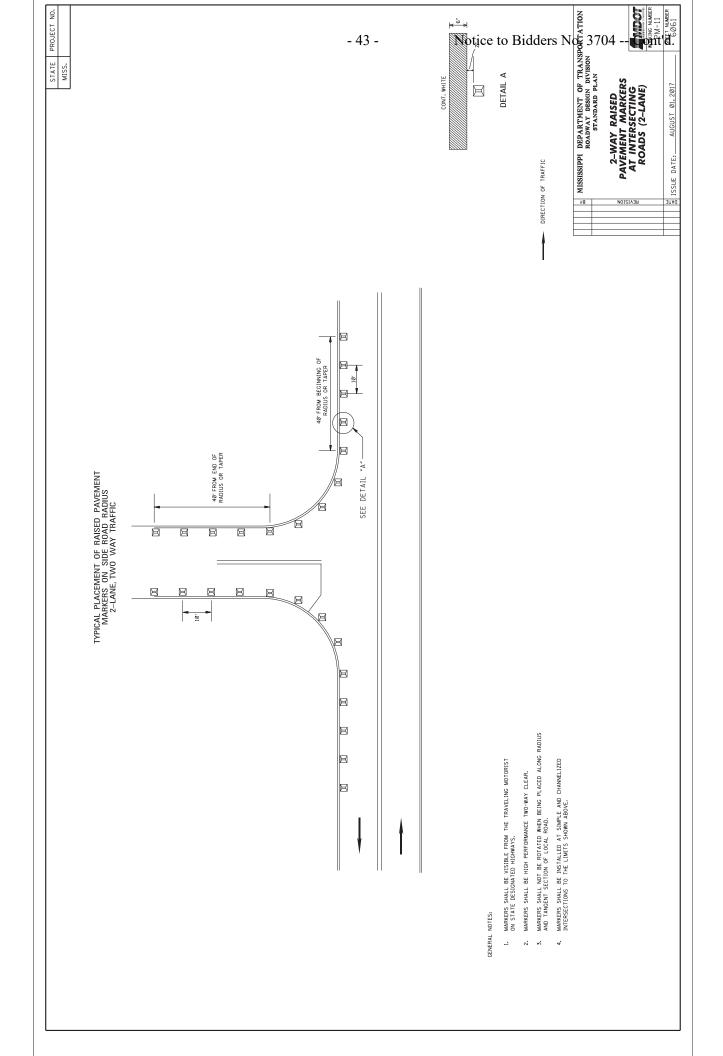


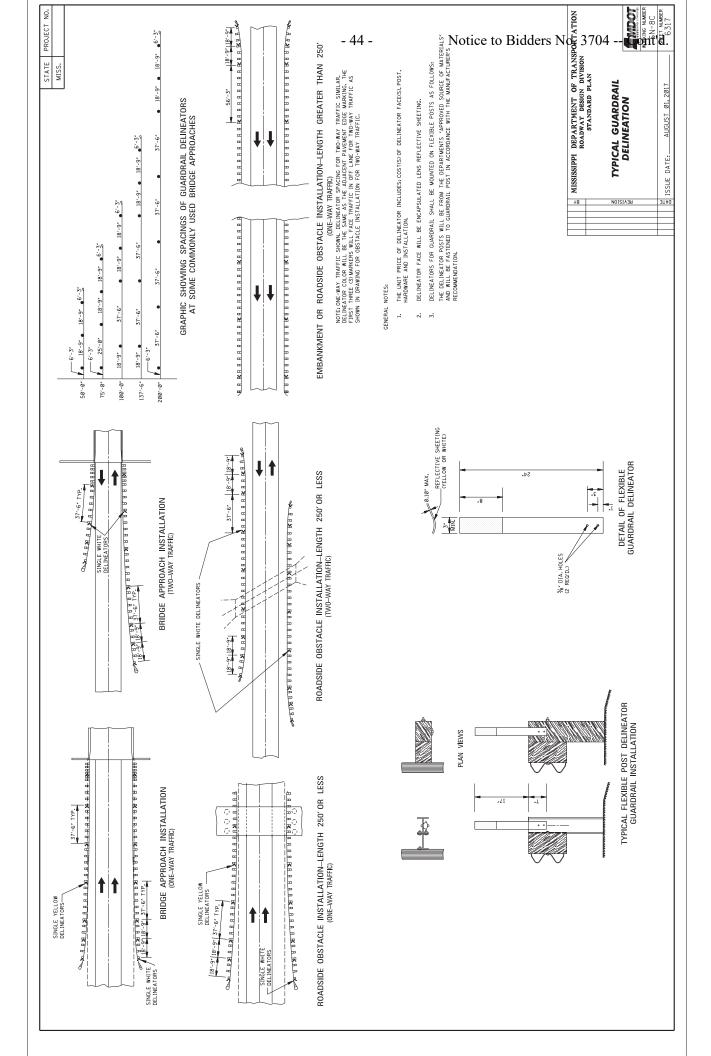


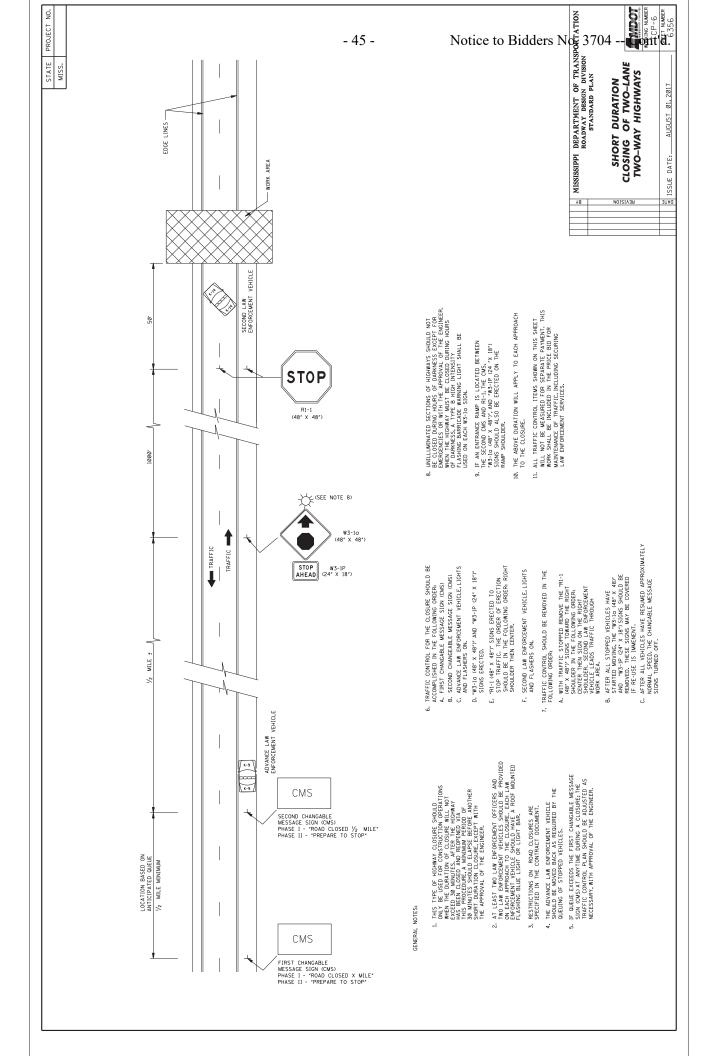














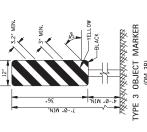
BARRICADE CLOSING A ROAD

BARRICADE CHARACTERISTICS

	н	Ħ	Ħ
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 *	.9	.9	.9
нЕТСНТ	36" MIN.	36" MIN.	60° MIN.
NUMBER OF RETROREFLECTORIZED RAIL FACES	2 (ONE EACH DIRECTION)	2 (ONE EACH DIRECTION) 4 (TWO EACH DIRECTION)	3 IF FACING TRAFFIC IN ONE DIRECTION 6 IF FACING TRAFFIC IN TWO DIRECTIONS

STANDARD BARRICADES

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



5. GRASHWORTH SEES ARE CLASSIFED BY FINA AS CATEGORY II WORK ZOME DEVICES WHICH REQUIRE
5. GRASHWORTHNESS ACCEPTANCE LITERS. TO DATE 2-IN. WHICK TIMBER ARLIS HAVE NOT BEEN
5. SUCCESSIFILY CRASH TESTED, A LIST OF CRASHWORTH BARRICADES AND OTHER CALLGORY II
FUNCTES CAN BE FOUND ON FINA'S MESSIFE
TITE/CRASHWORTH SAND AS MESSIFE
TITE/CRASHWORTH SAND AS MESSIFE
TITE/CRASHWORTH SAND AS MESSIFE
TITE/CRASHWORTH SAND AS MESSIFE
THE ACCEPTANCE OF THE

ORANGE

2. RAIL STRIPE SHOULD BE 6 INCHES, EXCEPT THAT 4-INCH WIDE STRIPES MAY BE USED IF RAIL LENGTHS ARE LESS THAN 36 INCHES. THE MARKING FOR BARRICADE RAILS SHALL BE ORANGE AND WHITE (SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION TRAFFIC IS TO PASS).

DO NOT PLACE SANDBAGS OR OTHER DEVICES TO PROVIDE MASS ON THE BOTTOM RAIL THAT WILL BLOCK VIEW OR RAIL FACE.

4. FOR ADDITIONAL INFORMATION OR DETAILS, SEE MUTCD, LATEST EDITION.

CHEVRON SIGNS MAY BE USED TO SUPPLEMENT OTHER STANDARD DEVICES WHERE ONE OR MORE THANGS ARE CLOSED FOR CONSTRUCTION OR MAINTENDARE. THEY SHOULD BE PLACED APPROXIMETLY 2"-0" BEHIND THE LANE TRANSITION STRIPE.

A CHEVRON SIGN CONSISTS OF A BLACK CHEVRON TYPE MARKING ON AN ORANGE BACKGROUND AND SHALL POINT IN THE DIRECTION OF TRAFFIC FLOW.

> BLACK

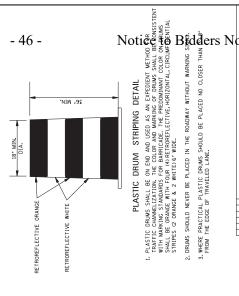
CHEVRON SIGN DETAIL

THE CHEVRON SIGN SHALL BE MOUNTED ON CRASHWORTHY SUPPORT.

WING BARRICADES

- WING BARRICADES ARE TYPE III BARRICADES ERECTED ON THE SHOULDER ON ONE OR BOTH SIDES OF THE PAYEMENT TO GIVE THE SENATION OF A MARROWING OR RESTRICTED ROADWAY, WING BARRICADES MAY BE USED AS A MOUNTING FOR THE ADVANCE WARNING SIGNS OR FLASHERS.
 - WING BARRICADES SHOULD BE USED:
 A. IN ADVANCE OF A CONSTRUCTION PROJECT EVEN WHEN NO PART OF THE ROADWAY IS ACTUALLY CLOSED.
 B. IN ADVANCE OF ALL BRIDGE OR CULVERT WIDENING OPERATIONS.

5.



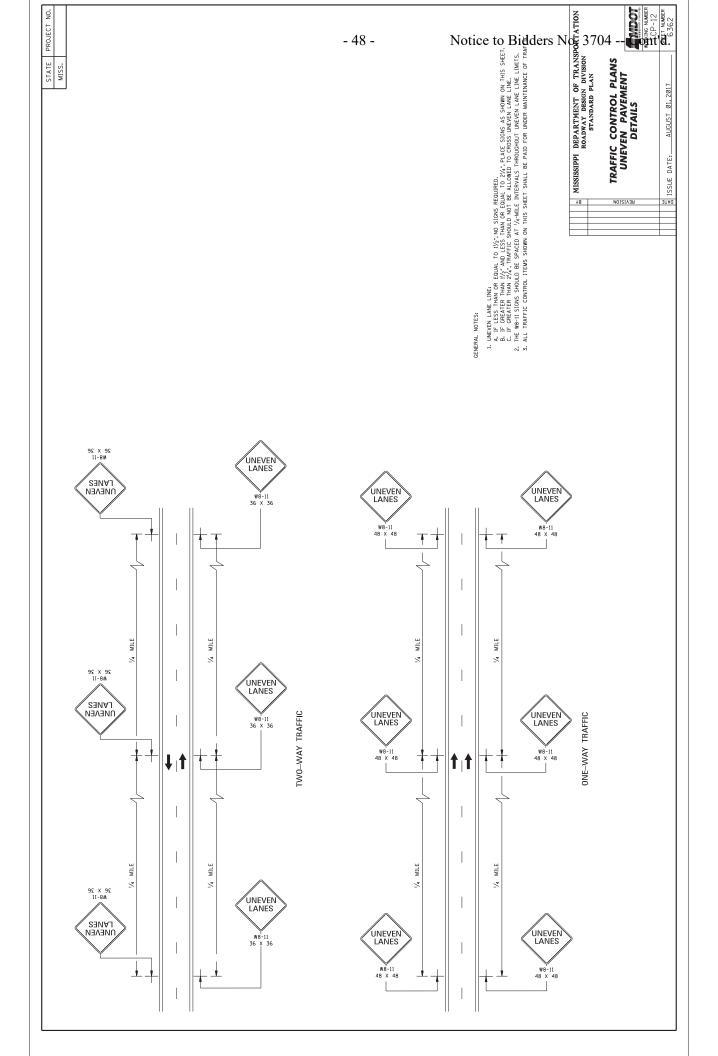
- 46 -

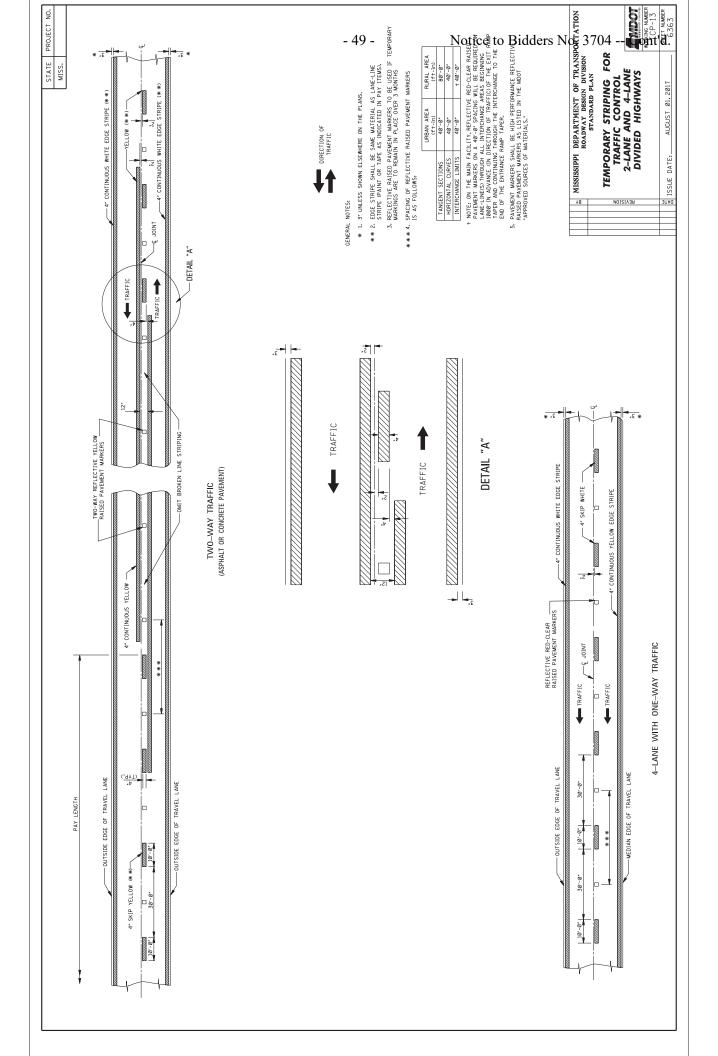


PROJECTS	AUGUST 01, 2017
	DATE.
	ISSUE DATE:
1	3TA

** 2. BARRICADES INTENDED FOR USE ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH SPEED ROADWAYS, SALL HAVE A MINIMUM OF 270 Inf OF REFLECTIVE AREA FAINT TRAFFIC.

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





MISSISSIPPI DEPARTMENT OF TRANSPORTATION

CODE: (IS)

SPECIAL PROVISION NO. 907-619-5

DATE: 01/17/2018

SUBJECT: Traffic Control for Construction Zones

Section 619, Traffic Control for Construction Zones, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-619.02--Materials.

<u>907-619.02.8--Traffic Signals and Flashers.</u> Delete Subsection 619.02.8.1 on pages 452 thru 455, and substitute the following.

<u>907-619.02.8.1-Portable Traffic Signals.</u> Portable traffic signals shall be trailer or pedestal mounted units that provide for easy, legal transportation and quick setup and deployment. Each unit shall be self-contained. The types of portable traffic signals are as follows.

- Type 1 portable traffic signal shall include two signal heads per trailer with one signal head mounted on an overhead mast arm that can be extended over the travel lane, and the other signal head shall be mounted on the vertical upright of the trailer.
- Type 2 portable traffic signal shall include one signal head that is mounted on the vertical upright of the pedestal/cart or trailer. Pedestal/Cart mounted shall be designated as Type 2A and Trailer mounted shall be designated as Type 2B. Type 2 portable traffic signals shall be tested to MASH Standards or NCHRP Test Level 3 crash testing requirements by an accredited independent test facility, with supporting documentation available upon request.
- Type 3 portable traffic signal shall be the same as Type 1 mentioned above but with enhanced capabilities as mentioned in each applicable section below.

The portable traffic signals shall be MUTCD Compliant and utilize standard ITE signal heads, and adhere to the ITE Specifications and Standards for Vehicle Traffic Control Signal Heads, Light Emitting Diode (LED) Circular Signal Supplement. The units shall be battery powered with a solar charging system, and be equipped with an onboard battery charger capable of being used with a 120V AC power source. Portable traffic signals shall be able to communicate with other portable signals via 900 MHz or other accepted wireless communications. If wireless connectivity is not feasible, hardwired connectivity shall be an acceptable alternative, as approved by the Engineer. Portable Traffic Signals shall include all the major components listed below or be able to perform the functions of these components. The major components of the unit shall include, but are not limited to, the trailer or pedestal/cart, telescoping mast arm (on Type 1 and 3), signal head(s) and back plates, traffic signal controller with operating software, solar charging system with batteries, input and output devices, vehicle detection, flasher units, conflict monitor, relays,

communications system and other equipment required for the safe operation and installation of the unit.

<u>907-619.02.8.1.1--Signal Heads</u>. The signal heads and all applicable components of the portable traffic signal shall meet the physical display and operational requirements of conventional traffic signals as specific in the Manual on Uniform Traffic Control Devices (MUTCD). The signal heads shall be cast aluminum or polycarbonate and shall meet the requirements laid out in the Mississippi Standard Specification for traffic signal heads and associated MDOT material specifications for traffic signal heads. The signal heads shall accommodate standard 12-inch LED indications meeting the ITE Specification "Vehicle Traffic Control Signal Heads" and ITE Specifications and Standards for Vehicle Traffic Control Signal Heads, Light Emitting Diode (LED) Circular Signal Supplement.

For Type 1, Type 2 and Type 3 portable traffic signals, the signal heads shall have the ability to be rotated 180 degrees to face in the opposite direction and shall have the ability to rotate and lock in approximately 10 degree increments to position the signal head for the optimum visibility to motorists.

For Type 1 portable traffic signals, each unit shall contain two signal heads with one signal head mounted on an overhead mast arm that can be extended over the travel lane with a minimum clearance of 17 feet measured from the bottom of the signal head unit to the road surface. The lower signal head shall be mounted to the vertical upright of the trailer at a minimum height of eight feet (8') from the bottom of the signal head unit to the road surface.

For Type 2 portable traffic signals, the signal head shall be mounted to the vertical upright of the trailer at a minimum height of eight feet (8') from the bottom of the signal head unit to the road surface.

For Type 3 portable traffic signals, each unit shall be the same as Type 1 mentioned above but with enhanced capabilities as mentioned below.

907-619.02.8.1.2--Controller and Operating Requirements. The portable traffic signal (Types 1, 2, and 3) shall include a solid state Controller Unit (CU) that is in compliance with NEMA TS 5 Performance Standard. The CU shall have an easy to read front panel backlit display for viewing and programming the configuration settings and CU status. The CU shall be capable of operating the portable traffic signal system in a fixed time, traffic actuated or manual control mode. Multiple portable traffic signals shall have the capability to be interconnected to form a portable traffic signal system. Each portable traffic signal within a connected system shall have the capability to serve as either the master or remote signal. Each portable traffic signal shall include a Conflict Monitor Unit (CMU), or Malfunction Management Unit (MMU) to ensure phase conflicts do not exist during operation.

For Type 1 and Type 2 portable traffic signals, a minimum of five (5) automatic time-of-day timing plans within a 24-hour period should be available in fixed time mode. The CU should have the ability to control a minimum of four (4) traffic phases with programmable cycle time adjustments and user adjustable red, amber, minimum green and maximum green times. The CU shall have

the capability of programming green and red times from 1 to 999 seconds and yellow times up to 15 seconds in one-second increments. The CU shall also have the capability of facilitating standby modes of red, red flash and yellow flash.

For Type 3 portable traffic signals, a minimum of ten (10) automatic time-of-day timing plans within a 24-hour period should be available in fixed time mode. The CU should have the ability to control a minimum of 16 traffic phases with programmable cycle time adjustments and user adjustable red, amber, minimum green and maximum green times. The CU shall have the capability of programming green and red times from 1 to 999 seconds and yellow times up to 15 seconds in one-second increments. The CU shall also have the capability of facilitating standby modes of red, red flash and yellow flash.

The system shall also have the ability to operate in vehicle actuation mode when vehicle detection components are used. The operating system shall have the capability to allow the Portable Traffic Signal to be connected to and controlled by a standard NEMA controller.

The system shall have the capability to be controlled remotely using a hardwired or wireless remote. The wireless radio remote shall be capable of communicating at a clear line of site distance up to ½ mile from the master.

The CU shall have the capability of interfacing with a Remote Monitoring System (RMS) capable of reporting signal location, battery voltage, and system faults. The RMS shall include a password-protected web site, viewable via an internet connection. In the event of a system fault, the RMS shall provide specific information concerning the cause of the system fault (example: "red lamp on signal number 1 out"). The RMS shall immediately contact previously designated individuals via SMS text messaging or email, upon a fault event.

The active timing program operating the PTS system shall be available and viewable through the RMS website at all times. The RMS shall maintain a history of the operating system in each signal including total operating hours, alerts, and the location of the PTS trailer.

<u>907-619.02.8.1.3--Wireless Communications</u>. The portable traffic signals shall communicate with other portable traffic signals within the signal system via license-free wireless 900 MHZ radio link communications as specified in Subsection 662.02.2 of the radio Interconnect System specification. The radio units shall maintain communications at a minimum distance of one (1) mile. The radio system shall conform to the applicable Federal Communications Commission requirements and all applicable state and local requirements.

The portable traffic signals shall be in direct communication at all times either by wireless or hardwire connection to provide for the required conflict monitoring / malfunction management system.

<u>907-619.02.8.1.4--Power Requirements.</u> Each Portable Traffic Signal shall be equipped with a power source consisting of a solar collection array, solar controller and/or charging unit and batteries sufficient to operate the signal system. The number and size of batteries shall be sufficient to operate the Type 1 and Type 3 signals for a minimum of 30 days and Type 2A signals for

minimum of five (5) days, and Type 2B signals for minimum of 15 days without additional charging or assist from the solar array. An on-board battery charger shall be compatible with both the solar array and with a 120V AC power source.

For Type 1 signals, the solar panel array shall provide for a minimum of 440 watts of solar collection capability.

For Type 2A signals, the solar panel array shall provide for a minimum of 90 watts of solar collection capability.

For Type 2B signals, the solar panel array shall provide for a minimum of 110 watts of solar collection capability.

For Type 3 signals, the solar panel array shall provide for a minimum of 480 watts of solar collection capability and shall include a tilt and rotate system to optimally position the panels.

All instrumentation for the electrical system and battery compartment shall be contained in a lockable weatherproof enclosure. Solar panels shall be secured to the mounting brackets for theft prevention.

907-619.02.8.1.5--Trailer and Lift System. The trailer or pedestal/cart and all mounted components shall conform to the wind loading requirements as follows: 100 mph minimum for Type 1 portable traffic signals, 55 mph minimum for Type 2A portable traffic signals, 75 mph minimum for Type 2B portable traffic signals, and 90 mph minimum for Type 3 portable traffic signals as described in the AASHTO *Standard Specifications for Highway Signs, Luminaries and Traffic Signals*, as specified in the plans including all interims and updates. At the request of the Engineer, proof of conformance to these wind load ratings shall be verified by a third-party. No additional loose ballast shall be used to meet these wind load requirements. The trailer shall be made of structural steel and shall include four (4) leveling/stabilizer jacks capable of lifting the trailer a minimum of six inches (6").

The trailer or pedestal shall be equipped with a mechanical, hydraulic or electric lift system sufficient for one person to be able to raise and lower the vertical upright and/or horizontal mast arm to and from the operating position.

For Type 1, 2B, and Type 3 signals, the trailer shall be equipped to provide legal and safe transport on the public highway system at speeds up to 55 mph.

All exterior metal surfaces, except signal heads and back plates, shall be powder-coat painted highway safety orange.

<u>907-619.02.9--Impact Attenuators.</u> Delete the sentence in the first paragraph of Subsection 619.02.9 on page 455, and substitute the following.

Impact attenuators must be listed on the Department's APL.

<u>907-619.02.11--Snap-Back Delineators.</u> Delete the sentence in the paragraph of Subsection 619.02.11 on page 456, and substitute the following.

Snap-back delineators shall be selected from the list of surface mounted flexible delineator posts as shown on the Department's APL.

907-619.02.14--Changeable Message Sign.

<u>907-619.02.14.5--PCMS Controller and Storage Cabinets.</u> Delete the fifth sentence in the first paragraph of Subsection 619.02.14.5 on pages 462 and 463, and substitute the following.

The controller cabinet shall be illuminated.

<u>907-619.05--Basis of Payment</u>. Add the following to the list of pay items ending on page 480.

907-619-E3: Changeable Message Sign *****

- per each
907-619-H2: Traffic Signal, Portable, Type
- per each

Proposal (Sheet 2 - 1)

LINCOLN

Mill & Overlay approximately 2 miles of SR 184 from US 84 to US 51 and approximately 5 miles of SR 184 from the BOSM near Brookway Blvd. to US 84, Placement of Pavement Markings on approximately 1 mile of SR 550 from US 51 to the EOSM, and Mill & Overlay approximately 1 mile of SR 583 from US 84 to the EOSM, known as State Project Nos. SP-9519-00(004) / 108715301, SP-9520-00(001) / 108715302, and SP-9513-00(001) / 108715303 in Lincoln County.

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
			Roady	way Items	
0010	202-B240		900	Linear Feet	Removal of Traffic Stripe
0020	203-G002	(E)	220	Cubic Yard	Excess Excavation, LVM, AH
0030	304-A008	(GY)	2,952	Cubic Yard	Granular Material, LVM, Class 6, Group D
0040	403-A006	(BA1)	107	Ton	19-mm, ST, Asphalt Pavement
0050	403-A015	(BA1)	10,213	Ton	9.5-mm, ST, Asphalt Pavement
0060	406-D001		36,117	Square Yard	Fine Milling of Bituminous Pavement, All Depths
0070	407-A001	(A2)	19,666	Gallon	Asphalt for Tack Coat
0080	423-A001		11	Mile	Rumble Strips, Ground In
0090	613-D006		11	Each	Adjustment of Manhole Cover and Water Valve
0100	618-A001		1	Lump Sum	Maintenance of Traffic
0110	618-B001		2	Square Feet	Additional Construction Signs [\$10.00]
0120	619-A1001		21	Mile	Temporary Traffic Stripe, Continuous White
0130	619-A2001		18	Mile	Temporary Traffic Stripe, Continuous Yellow
0140	619-A4002		8	Mile	Temporary Traffic Stripe, Skip Yellow
0150	619-A5001		26,557	Linear Feet	Temporary Traffic Stripe, Detail
0160	619-A6001		630	Square Feet	Temporary Traffic Stripe, Legend
0170	619-A6002		9,774	Linear Feet	Temporary Traffic Stripe, Legend
0180	620-A001		1	Lump Sum	Mobilization
0190	626-C002		13	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous White
0200	626-D001		7	Mile	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow
0210	626-E001		11	Mile	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
0220	626-G001		308	Linear Feet	Thermoplastic Detail Stripe, Blue-ADA
0230	626-G002		13,188	Linear Feet	Thermoplastic Detail Stripe, White
0240	626-G003		6,292	Linear Feet	Thermoplastic Detail Stripe, Yellow
0250	626-H004		774	Square Feet	Thermoplastic Legend, White
0260	626-H005		8,323	Linear Feet	Thermoplastic Legend, White
0270	627-K001		78	Each	Red-Clear Reflective High Performance Raised Markers
0280	627-J001		860	Each	Two-Way Clear Reflective High Performance Raised Markers
0290	627-L001		1,235	Each	Two-Way Yellow Reflective High Performance Raised Markers
0300	627-P001		36	Each	Two-Way Blue Reflective High Performance Raised Markers
0310	630-F006		44	Each	Delineators, Guard Rail, White

Proposal (Sheet 2 - 2)

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0320	647-A001		1	Lump Sum	Removal of Existing Traffic Signal Equipment
0330	907-411-A001	(BA1)	3,860	Ton	Ultra Thin Asphalt Pavement
0340	907-619-B001		198	Linear Feet	Temporary Portable Rumble Strips
0342	907-619-E3001		2	Each	Changeable Message Sign
0350	907-626-H001		4	Each	Thermoplastic Legend, Blue-ADA Handicap Symbol
0360	907-632-D001		4	Each	Solid State Traffic Actuated Controller, Type 1
0370	907-634-B001		4	Each	Traffic Signal Equipment Pole Shaft Extension, 10'
0380	907-637-C028		145	Linear Feet	Traffic Signal Conduit, Underground, Type 4, 2"
0390	907-637-D002		385	Linear Feet	Traffic Signal Conduit, Underground Drilled or Jacked, Rolled Pipe, 2"
0400	907-643-A004		15	Each	Video Vehicle Detection Sensor, Type 1A
0410	907-643-B001		1,921	Linear Feet	Video Vehicle Detection Cable
0420	907-662-D002		5	Each	Radio Interconnect, Broadband, Short Range
0430	907-663-A001		4	Each	Network Switch, Type A
0440	907-899-A001		1	Lump Sum	Railway-Highway Provisions
			ALTERNATE GR	OUP AA NUMBER	R1
0450	304-H001	(GY)	180	Cubic Yard	3/4" and Down Crushed Stone Base, LVM
			ALTERNATE GR	OUP AA NUMBER	3.2
0460	304-H002	(GY)	180	Cubic Yard	Size 610 Crushed Stone Base, LVM
			ALTERNATE GR	OUP AA NUMBER	13
0470	304-H003	(GY)	180	Cubic Yard	Size 825B Crushed Stone Base, LVM