

**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. <u>  1  </u>	DATED <u>  11/14/2018  </u>	ADDENDUM NO. _____	DATED _____
ADDENDUM NO. _____	DATED _____	ADDENDUM NO. _____	DATED _____
ADDENDUM NO. _____	DATED _____	ADDENDUM NO. _____	DATED _____

Number	Description
1	Revised Table of Contents; Revised NTB No. 1186; Added NTB No. 1187; Amendment EBS Download Required.

TOTAL ADDENDA:   1    
(Must agree with total addenda issued prior to opening of bids)

Respectfully Submitted,

DATE \_\_\_\_\_

\_\_\_\_\_  
Contractor

BY \_\_\_\_\_  
Signature

TITLE \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY, STATE, ZIP \_\_\_\_\_

PHONE \_\_\_\_\_

FAX \_\_\_\_\_

E-MAIL \_\_\_\_\_

(To be filled in if a corporation)

Our corporation is chartered under the Laws of the State of \_\_\_\_\_ and the names, titles and business addresses of the executives are as follows:

_____	President	Address
_____	Secretary	Address
_____	Treasurer	Address

The following is my (our) itemized proposal.  
MRP-5059-38(190)/ 306607302000  
Lauderdale County(ies)

Revised 01/26/2016

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
TABLE OF CONTENTS**

**PROJECT: MRP-5059-38(190)/306607302 - Lauderdale**

Section 901 - Advertisement

Section 904 - Notice to Bidders

#1	Governing Specification
#9	Federal Bridge Formula
#296	Reduced Speed Limit Signs
#401	Standard Drawings
#445	Mississippi Agent and Qualified Nonresident Agent
#516	Errata and Modifications to the 2017 Standard Specifications
#1185	Contract Time
#1186	Scope of Work
#1187	Temporary Construction Signs
#1206	MASH Compliant Devices

Section 907 - Special Provisions

907-102-2	Bidding Requirements and Conditions
907-103-2	Award and Execution of Contract
907-619-5	Traffic Control for Construction Zones
907-703-1	Gradation

Section 905 - Proposal, Proposal Bid Items, Combination Bid Proposal

State Board of Contractors Requirement

State Certification Regarding Non-Collusion, Debarment and Suspensions

Section 902 - Contract Form

Section 903 - Contract Bond Forms

Progress Schedule

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

11/14/2018 03:51 PM

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION

**SECTION 904 - NOTICE TO BIDDERS NO. 1186**

**CODE: (SP)**

**DATE: 09/25/2018**

**SUBJECT: Scope of Work**

**PROJECT: MRP-5059-38(190) / 306607302 - Lauderdale 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." All other references to plans in the contract documents and Standard Specification for Road and Bridge Construction are to be disregarded.

Minor changes in detail of design or construction procedure may be authorized by the Director of Structures, State Bridge Engineer provided such changes will not be cause for contract price adjustment. Work for which no pay item is provided will not be paid for directly and shall therefore be considered an absorbed item of work.

It shall be the responsibility of the Contractor to protect existing structures from damage which might occur during construction. The Contractor shall replace or repair, as directed by the Engineer, any structures damaged during the life of the contract. No payment will be made for replacement or repair of damaged items.

During construction, care shall be exercised to ensure that no debris falls onto the roadway under the structure. All debris shall become the property of the Contractor and shall be removed from the construction site.

Work on the project shall consist of the following:

## **Replace Sign Truss and Sign Panels**

The Contractor shall replace a sign truss and sign panels located at approximately 1600 feet east of U.S. Highway 45 on I-20/I-59 West Bound.

Sign truss and components shall be Contractor Designed in accordance with Section 630 of the Standard Specification and the attached Detail Plan Sheets. No change of the details will be permitted except by written approval of the Director of Structures, State Bridge Engineer. Minor changes in details of design or construction may be authorized by the Director of Structures, State Bridge Engineer, provided such changes will not be cause for contract price adjustment.

Shop drawings of the truss structure shall be submitted in duplicate to the Project Engineer for review and approval by the Director of Structures, State Bridge Engineer, for the fabrication of the truss in accordance with Subsection 810.02.2 of the Standard Specifications. The shop drawings shall show the foundation elevations necessary to insure minimum vertical clearances. The method used to provide the required parabolic camber (see camber diagrams) shall be shown on

the shop drawings.

Steel sign truss and sign panels shall be installed per the reviewed shop drawing details.

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 31 5R-94). Reinforcement in the new sign truss foundations will not be directly paid for, it shall be considered an absorbed item.

All welding shall be performed in the shop by certified welders and in accordance with ANSL/AWS D1.1. Grinding of welds on seamed pipes will not be required; however, good shop practices shall be followed in the appearance of the weld.

Payment for this work shall be made under Pay Item No. 630-I, Metal Overhead Sign Supports, Assembly No. 1, Contractor Designed.

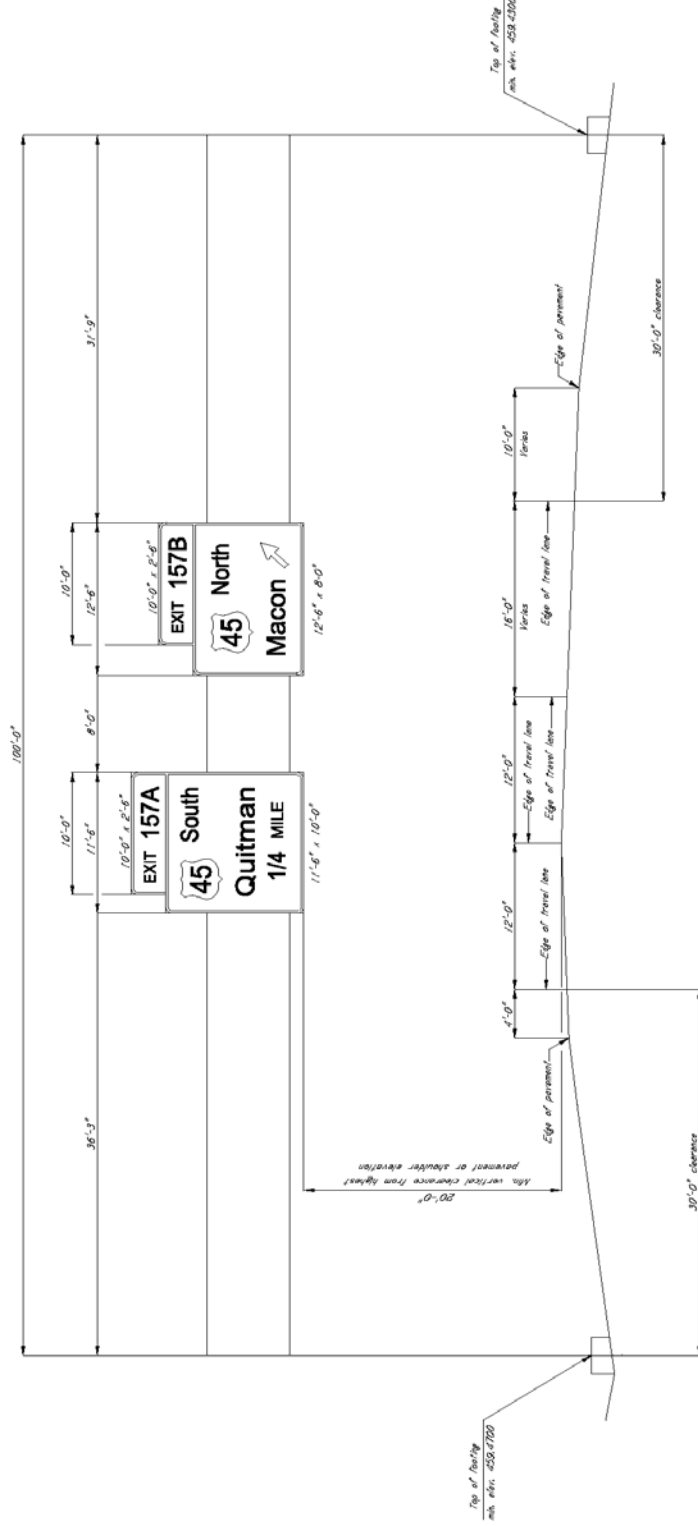
Work for which no pay item is provided in the proposal will not be paid for directly and compensation, therefore, will be included in the prices and payments for bid items.

**Removal of Existing Footing**

Existing concrete support foundations shall be removed to a depth of two feet (2') below existing ground. Payment for this work shall be made under Pay Item No. 202-B, Removal of Footing.

**Traffic Control Plan**

The Contractor shall erect and maintain construction signing and provide all signs and traffic control devices necessary to safely maintain traffic around and through the work areas in accordance with the Traffic Control Plan and the MUTCD. The cost is to be included in the price bid for Pay Item No. 618-A: Maintenance of Traffic. Fluorescent orange sheeting shall be used on all construction and traffic control signs except those designated in the plans to be black legend and border on white background. Standard roadside construction signs and barricades will be paid for using the appropriate pay items. Roadside construction signs shall be placed in accordance with the attached drawings or as directed by the Engineer.



OVERHEAD ASSEMBLY  
TRUSS AT STA. 1043+95 - REPLACEMENT FOR EXISTING  
TRUSS AT STA. 1043+80.83 ON PROJECT: 306607/302000

NOTE: Some of the contract sheets alternate  
shown to replace existing sign truss.

**SIGNS REQUIRED**  
(CONT'D)

SIGN NO.	SIZE	QUAN. REQ'D.	TOTAL SIGNS AREA SQ. FT.	REMARKS
G20 - 1	60" X 24"	10.00		NO. OF VEHICLES
G20 - 2	48" X 24"	8.00		END ROAD WORK
G20 - 4	36" X 18"	4.50		PILOT CAR FOLLOW ME
M1 - 1	24" X 24"	4.00		1 OR 2 DIGIT
M1 - 4	30" X 24"	5.00		3 DIGIT
M1 - 5	24" X 24"	4.00		1 OR 2 DIGIT
M1 - 5	30" X 24"	5.00		3 DIGIT
M3 - 1	24" X 12"	2.00		NON-REFLECTIVE DIGIT RATE MARKER
M3 - 2	24" X 12"	2.00		REFLECTIVE DIGIT RATE MARKER
M3 - 2	24" X 12"	2.00		REFLECTIVE DIGIT RATE MARKER
M3 - 3	24" X 12"	2.00		REFLECTIVE DIGIT RATE MARKER
M3 - 3	30" X 15"	3.13		REFLECTIVE DIGIT RATE MARKER
M3 - 4	24" X 12"	2.00		REFLECTIVE DIGIT RATE MARKER
M3 - 4	30" X 15"	3.13		REFLECTIVE DIGIT RATE MARKER
M4 - 8	24" X 12"	2.00		REFLECTIVE OR 2 DIGIT RATE MARKER
M4 - 8	30" X 15"	3.13		REFLECTIVE OR 2 DIGIT RATE MARKER
M4 - 9	48" X 36"	12.00		DETOUR
M4 - 9L	48" X 36"	12.00		DETOUR
M4 - 9B	48" X 36"	12.00		DETOUR
M4 - 9S	48" X 36"	12.00		DETOUR
M4 - 9BSR	48" X 36"	12.00		DETOUR
M4 - 10L	48" X 18"	6.00		DETOUR
M4 - 10R	48" X 18"	6.00		DETOUR
M4 - 5	24" X 12"	2.00		TO
M5 - 1L	21" X 15"	2.19		
M5 - 2L	21" X 15"	2.19		
M5 - 2R	21" X 15"	2.19		
M5 - 2R	21" X 15"	2.19		
M6 - 1L	21" X 15"	2.19		
M6 - 2R	21" X 15"	2.19		
M6 - 3	21" X 15"	2.19		
R1 - 1	36" OCTAGON	7.46		STOP
R1 - 2	48" OCTAGON	13.25		
R1 - 2	48" X 48"	6.93		
R1 - 2	60" X 60"	10.83		

**SIGNS REQUIRED**  
(CONT'D)

SIGN NO.	SIZE	QUAN. REQ'D.	TOTAL SIGNS AREA SQ. FT.	REMARKS
R1 - 3	18" X 9"	1.13		3-WAY, 4 WAY ETC.
R1 - 3	24" X 12"	2.00		
R2 - 1	24" X 30"	5.00		
R2 - 1	36" X 48"	12.00		SPEED LIMIT
R2 - 1	48" X 60"	20.00		
R3 - 1	36" X 36"	9.00		
R3 - 2	48" X 48"	16.00		
R3 - 2	36" X 36"	9.00		
R3 - 4	36" X 36"	9.00		
R3 - 4	48" X 48"	16.00		
R3 - 5L	30" X 36"	7.50		
R3 - 5R	30" X 36"	7.50		
R3 - 6L	30" X 36"	7.50		
R3 - 6R	30" X 36"	7.50		
R3 - 7L	30" X 30"	6.25		LEFT LANE TURN LEFT
R3 - 7R	30" X 30"	6.25		RIGHT LANE TURN RIGHT
R4 - 1	24" X 30"	5.00		DO NOT PASS
R4 - 1	48" X 60"	20.00		
R4 - 2	24" X 30"	5.00		PASS WITH CARE
R4 - 7	48" X 60"	20.00		
R4 - 8	48" X 60"	20.00		
R5 - 1	48" X 48"	16.00		DO NOT ENTER
R5 - 10	42" X 30"	8.75		WRONG WAY
R6 - 1L	36" X 12"	3.00		ONE WAY
R6 - 1R	36" X 12"	3.00		ONE WAY
R6 - 2L	24" X 30"	5.00		ONE WAY
R6 - 2R	24" X 30"	5.00		ONE WAY
R11 - 2	48" X 30"	10.00		ROAD CLOSED
R11 - 3D	60" X 30"	12.50		ROAD CLOSED
R11 - 3B	60" X 30"	12.50		ROAD CLOSED
R11 - 4	60" X 30"	12.50		ROAD CLOSED
R12 - 1	36" X 48"	12.00		WEIGHT LIMIT
R16 - 3	36" X 48"	12.00		WEIGHT LIMIT
R16 - 3	48" X 60"	20.00		WEIGHT LIMIT
W1 - 1L	48" X 48"	16.00		
W1 - 1R	48" X 48"	16.00		
W1 - 2L	48" X 48"	16.00		
W1 - 2R	48" X 48"	16.00		
W1 - 3L	48" X 48"	16.00		
W1 - 3R	48" X 48"	16.00		
W1 - 4L	48" X 48"	16.00		
W1 - 4R	48" X 48"	16.00		
W1 - 5L	48" X 48"	16.00		
W1 - 5R	48" X 48"	16.00		
W1 - 6L	48" X 24"	8.00		
W1 - 6R	60" X 30"	12.50		
W1 - 6R	48" X 24"	8.00		
W1 - 7	60" X 24"	8.00		

**SIGNS REQUIRED**  
(CONT'D)

SIGN NO.	SIZE	QUAN. REQ'D.	TOTAL SIGNS AREA SQ. FT.	REMARKS
W1 - 7	60" X 30"	12.50		
W1 - 8L	18" X 24"	3.00		
W1 - 8R	36" X 48"	12.00		
W1 - 8R	18" X 24"	3.00		
W1 - 8R	36" X 48"	12.00		
W1 - 9L	48" X 48"	16.00		
W1 - 9R	48" X 48"	16.00		
W3 - 1a	48" X 48"	16.00		
W3 - 2a	48" X 48"	16.00		
W3 - 3	48" X 48"	16.00		
W3 - 5	48" X 48"	16.00		
W4 - 1L	48" X 48"	16.00		SPEED REDUCTION
W4 - 1R	48" X 48"	16.00		
W4 - 2L	48" X 48"	16.00		
W4 - 2R	48" X 48"	16.00		
W5 - 1a	48" X 48"	16.00		PAVEMENT NARROWS
W6 - 1	48" X 48"	16.00		
W6 - 2	48" X 48"	16.00		
W6 - 3	48" X 48"	16.00		
W8 - 1	48" X 48"	16.00		BUMP
W8 - 4	48" X 48"	16.00		SOFT SHOULDER
W8 - 6	48" X 48"	16.00		TRUCK CROSSING
W8 - 7	48" X 48"	16.00		LOOSE GRAVEL
W8 - 9	48" X 48"	16.00		LOW SHOULDER
W8 - 11	36" X 36"	9.00		UNEVEN LANES
W8 - 12	48" X 48"	16.00		NO CENTER STRIPE
W10 - 1	36" DIA.	7.07		
W10 - 1	48" DIA.	12.56		
W13 - 1	24" X 24"	4.00		XX MPH
W14 - 3	48" X 48"	9.89		NO PASSING
W15 - 2	24" X 18"	3.00		XX FEET
W19 - 2	48" X 48"	16.00		BRIDGE WITH ICE ROAD WEAR
W20 - 1	48" X 48"	16.00		ADVANCE ROAD WORK
W20 - 1	36" X 36"	9.00		ADVANCE DETOUR
W20 - 2	48" X 48"	16.00		ADVANCE ROAD CLOSED
W20 - 4	48" X 48"	16.00		ADVANCE ONE-LN. RD.
W20 - 4B	48" X 48"	16.00		ADVANCE ONE-LN. RD.
W20 - 5L	48" X 48"	16.00		ADVANCE RT. LN. CLOSED
W20 - 5R	48" X 48"	16.00		ADVANCE RT. LN. CLOSED
W20 - 7a	48" X 48"	16.00		WORKERS
W21 - 1	36" X 36"	9.00		
W21 - 1a	36" X 36"	9.00		

**SIGNS REQUIRED**  
(CONT'D)

SIGN NO.	SIZE	QUAN. REQ'D.	TOTAL SIGNS AREA SQ. FT.	REMARKS
W21 - 2	36" X 36"	9.00		FRESH OIL (TAR)
W21 - 3	48" X 48"	16.00		ADVANCE ROAD MACHINERY
W21 - 5	48" X 48"	16.00		SHOULDER WORK
W24 - 1L	48" X 48"	16.00		SURVEY CREW
W24 - 1R	48" X 48"	16.00		
W24 - 1BL	48" X 48"	16.00		
W24 - 1BR	48" X 48"	16.00		
VP - 1L	12" X 36"	3.00		
VP - 1R	12" X 36"	3.00		
OM - 3L	12" X 36"	3.00		
OM - 3R	12" X 36"	3.00		
TOTAL SIGN AREA		LESS THAN 10 SQ. FT.	16,000 SQ. FT.	
TOTAL SIGN AREA		10 SQ. FT. OR MORE	128,000 SQ. FT.	

**NOTES**

- INTERSTATE ROUTE MARKER
  - UNITED STATES ROUTE MARKER
  - STATE ROUTE MARKER
  - COLORS OF CARDINAL DIRECTION MARKERS AND DIRECTIONAL ARROWS SHALL BE APPROPRIATE TO MATCH ACCOMPANYING ROUTE MARKERS.
  - BLACK STRIPES ON YELLOW BACKGROUND
  - INTERSTATE USE ONLY
  - TOP OF SIGN - BLACK LETTERING ON ORANGE BACKGROUND, BOTTOM OF SIGN - BLACK LETTERING ON WHITE BACKGROUND
- THE BACKGROUND OF ALL WARNING SIGNS ("W" SERIES) MUST BE YELLOW IN ALL CASES.

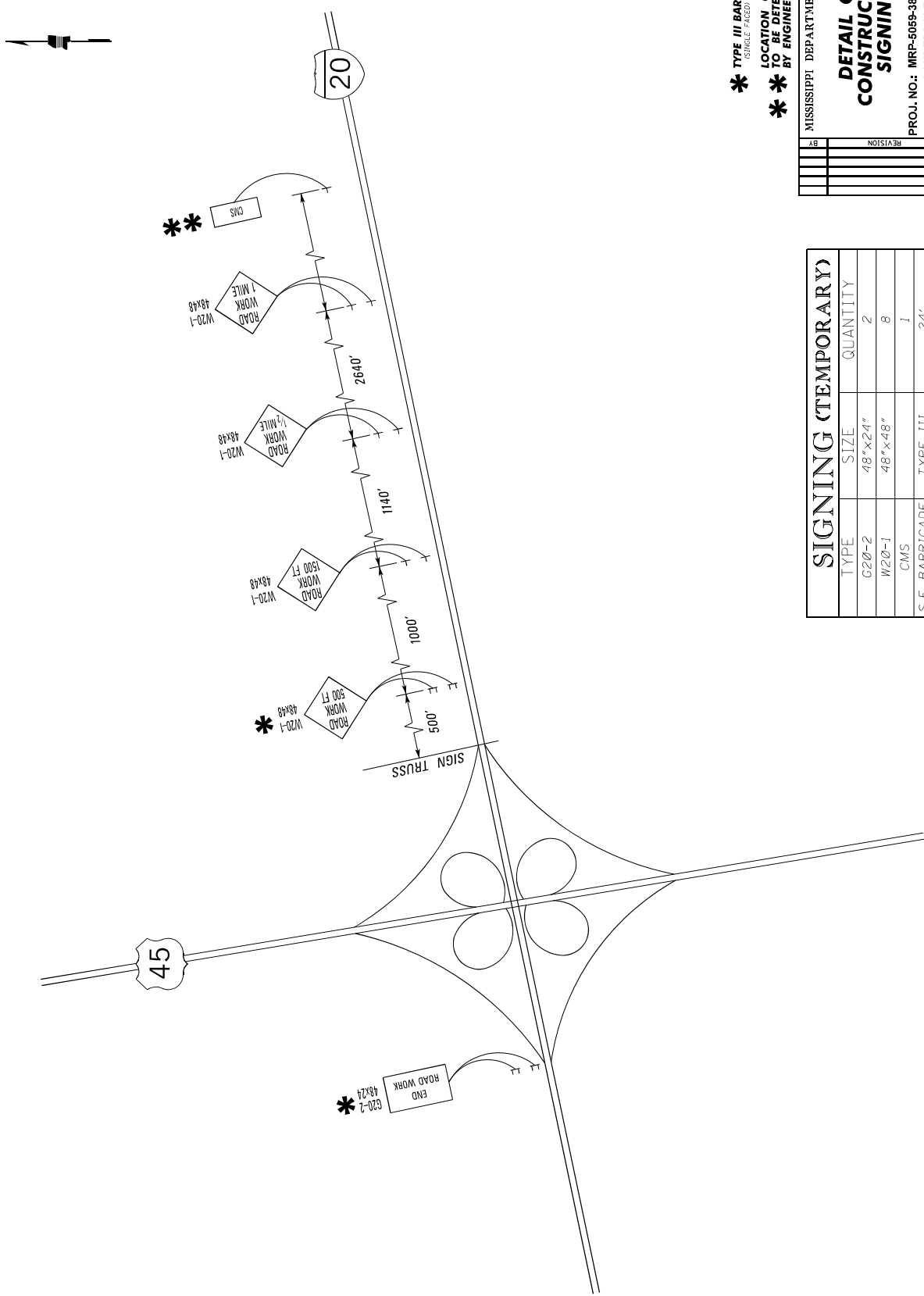
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

**ESTIMATED QUANTITIES FOR TRAFFIC CONTROL SIGNS**

PROJECT NO.: WRP-5069-38(190)  
COUNTY: LAUDERDALE

DATE: 08-26-13

FMS. CON: 36687/20200  
 STATE PROJECT NO.  
 MISS. MRP-5058-38(190)



**\*\* TYPE III BARRICADE**  
 (SINGLE FACED 16' WIDE)  
**\*\* LOCATION OF CMS**  
**\*\* TO BE DETERMINED**  
**\*\* BY ENGINEER**

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

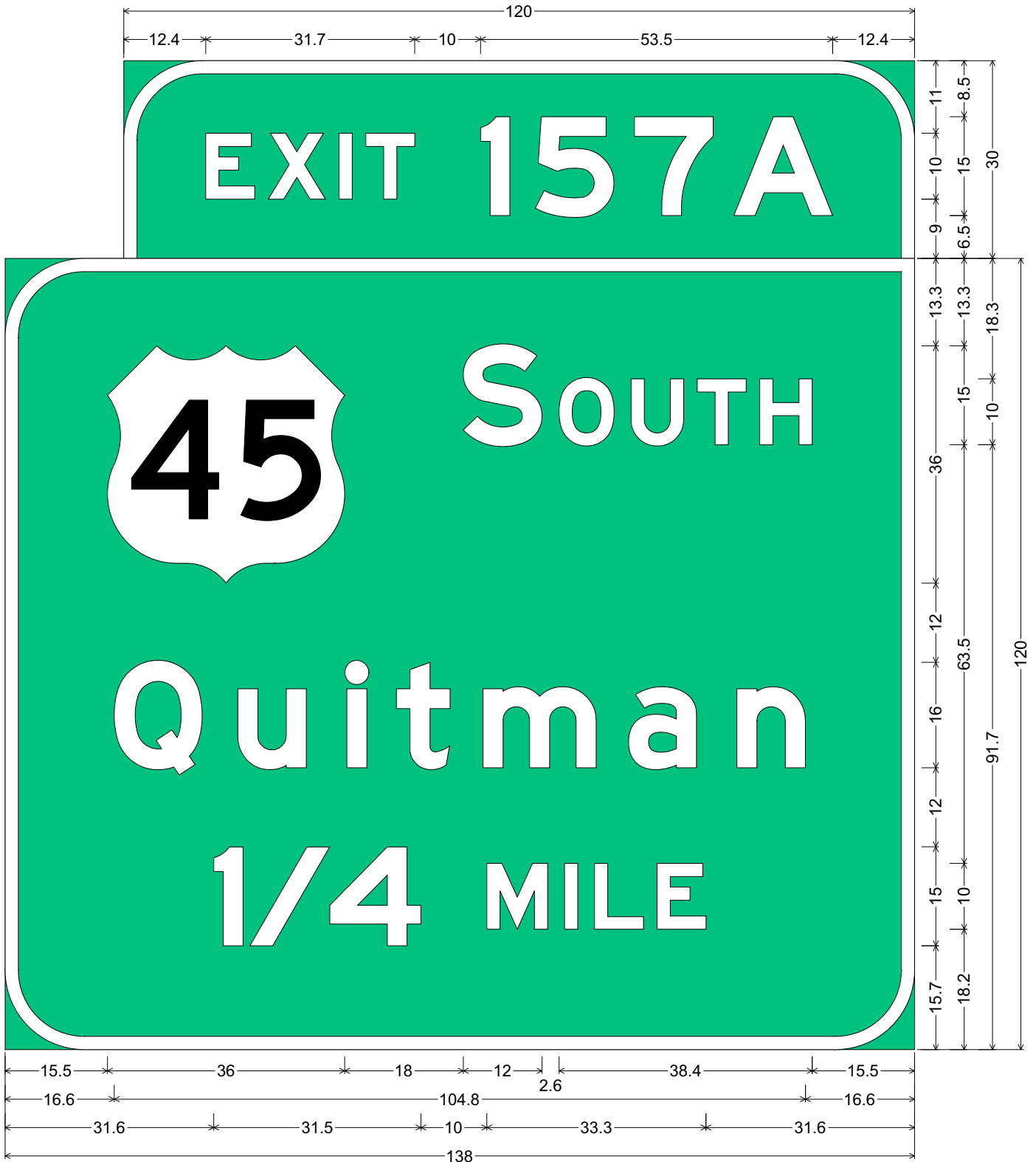
**DETAIL OF CONSTRUCTION SIGNING**

PROJ. NO.: MRP-5058-38(190)  
 COUNTY: LAUDERDALE

DATE: 8/11/18  
 DESIGNED BY: RMD-JCS  
 CHECKED: \_\_\_\_\_

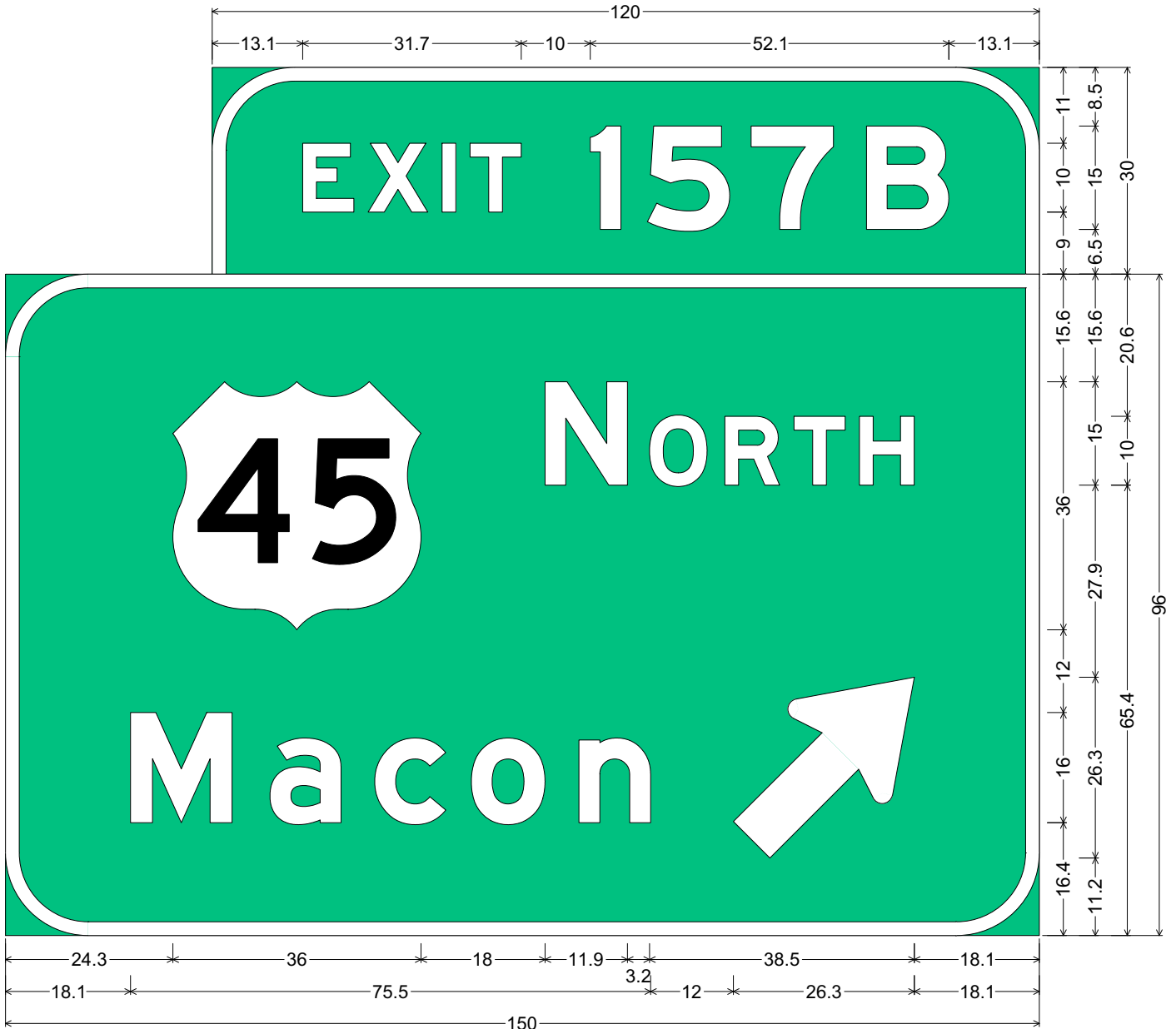
WORKING NUMBER: DCS-1  
 SHEET NUMBER: 3

SIGNING (TEMPORARY)		
TYPE	SIZE	QUANTITY
G20-2	48"x24"	2
W20-1	48"x48"	8
CMS		1
S.F. BARRICADE	TYPE III	24'

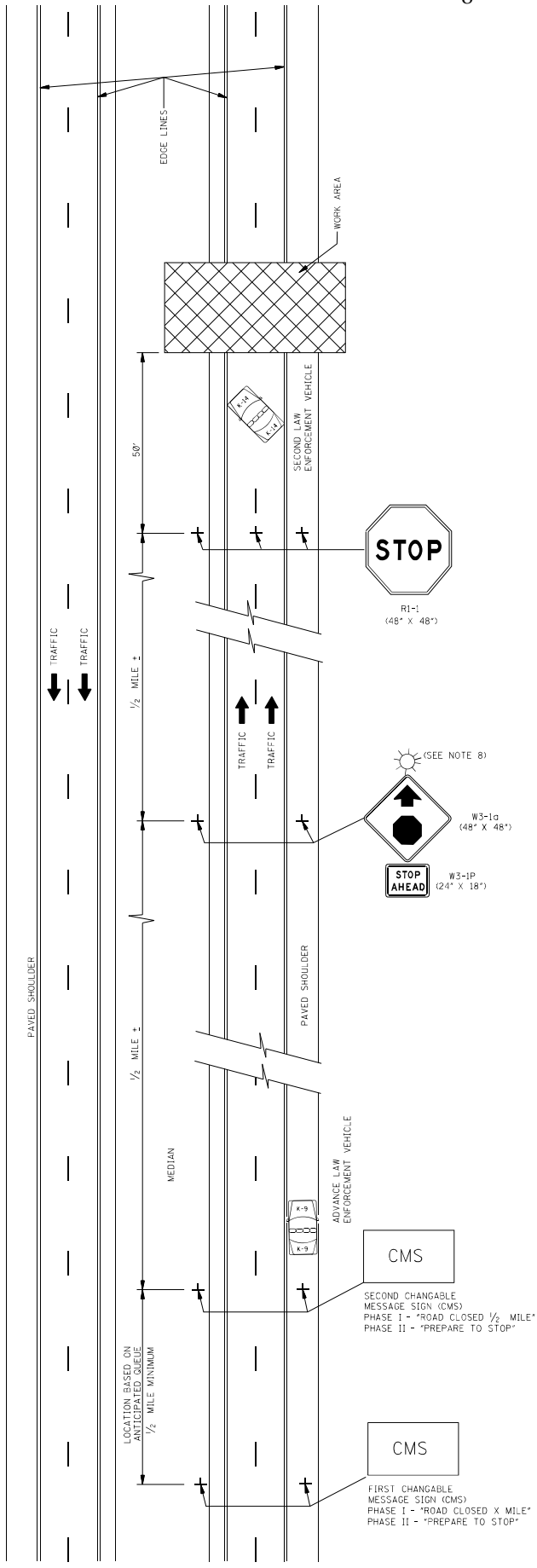


12.0" Radius, 2.0" Border, White on Green;  
"EXIT 157A" E Mod;  
12.0" Radius, 2.0" Border, White on Green;  
"SOUTH" E Mod; "Quitman" E Mod; "1/4 MILE" E Mod;





12.0" Radius, 2.0" Border, White on Green;  
"EXIT 157B" E Mod;  
12.0" Radius, 2.0" Border, White on Green;  
"NORTH" E Mod; "Macon" E Mod; Standard Arrow Custom 33.4" X 20.3" 45°;



GENERAL NOTES:

- THIS TYPE OF HIGHWAY CLOSURE SHOULD ONLY BE USED UNDER THE FOLLOWING CONDITIONS WHEN THE DURATION OF CLOSURE WILL NOT EXCEED 30 MINUTES. AFTER THE HIGHWAY IS CLOSED, THE ADVANCE LAW ENFORCEMENT VEHICLE SHOULD ELAPSE BEFORE ANOTHER SHORT DURATION CLOSURE EXCEPT WITH THE APPROVAL OF THE ENGINEER.
- 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 BE EQUIPPED WITH A ROOF MOUNTED FLASHING BLUE LIGHT OR LIGHT BAR.
- RESTRICTIONS ON ROAD CLOSURES ARE SPECIFIED IN THE CONTRACT DOCUMENT.
- THE ADVANCE LAW ENFORCEMENT VEHICLE SHOULD BE MOVED BACK AS REQUIRED BY THE QUEUING OF STOPPED VEHICLES.
- IF QUEUE EXCEEDS THE FIRST CHANGABLE MESSAGE SIGN (CMS) AT ANY TIME DURING A CLOSURE, THE TRAFFIC CONTROL PLAN SHOULD BE ADJUSTED AS NECESSARY WITH APPROVAL OF THE ENGINEER.
- TRAFFIC CONTROL FOR THE CLOSURE SHOULD BE ACCOMPLISHED IN THE FOLLOWING ORDER:
  - FIRST CHANGABLE MESSAGE SIGN (CMS)
  - SECOND CHANGABLE MESSAGE SIGN (CMS)
  - ADVANCE LAW ENFORCEMENT VEHICLE, LIGHTS AND FLASHERS ON.
  - "W3-1a (48" X 48") AND "W3-1P (24" X 18") SIGNS ERECTED.
  - "R1-1 (48" X 48") SIGNS ERECTED TO STOP TRAFFIC. THE ORDER OF ERECTION OF SIGNS SHOULD BE AS FOLLOWS: STOP SIGN IN THE CENTER, THEN MEDIAN SHOULDER, THEN CENTER, THEN MEDIAN SHOULDER.
  - RESTRICTIONS ON ROAD CLOSURES, LIGHTS AND FLASHERS ON.
  - TRAFFIC CONTROL SHOULD BE REMOVED IN THE FOLLOWING ORDER:
    - WITH TRAFFIC STOPPED REMOVE THE "R1-1" SHOULDER IN THE FOLLOWING ORDER: MEDIAN, THEN CENTER, THEN SIGN ON THE RIGHT SHOULDER, THEN SIGN ON THE LEFT SHOULDER. VEHICLE LEADS TRAFFIC THROUGH WORK AREA.
    - AFTER ALL STOPPED VEHICLES HAVE STARTED MOVING, THE "W3-1a (48" X 48") AND "W3-1P (24" X 18") SIGNS SHOULD BE REMOVED IN THE FOLLOWING ORDER: MEDIAN, THEN CENTER, THEN SIGN ON THE RIGHT SHOULDER, THEN SIGN ON THE LEFT SHOULDER. AFTER ALL VEHICLES HAVE RESUMED APPROXIMATELY NORMAL SPEED, THE CHANGABLE MESSAGE SIGNS TURNED OFF.
- UNILLUMINATED SECTIONS OF HIGHWAYS SHOULD NOT BE CLOSED DURING HOURS OF DARKNESS EXCEPT FOR MAINTENANCE OF THE HIGHWAY. WHEN THE HIGHWAY MUST BE CLOSED DURING HOURS OF DARKNESS, A TYPE B HIGH INTENSITY FLASHING BARRICADE WARNING LIGHT SHALL BE USED ON EACH W3-1a SIGN.
- IF AN ENTRANCE RAMP IS LOCATED BETWEEN THE SECOND CMS AND R1-1, THE CMS, SIGNS W3-1a (48" X 48") AND W3-1P (24" X 18") SHOULD ALSO BE ERECTED ON THE RAMP SHOULDER.
- THE ABOVE DURATION WILL APPLY TO EACH APPROACH TO THE CLOSURE.
- 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, INCLUDING SECURING LAW ENFORCEMENT SERVICES.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
ROADWAY DESIGN DIVISION  
STANDARD PLAN

**SHORT DURATION CLOSING OF DIVIDED HIGHWAYS**

DATE	REVISION

ISSUE DATE: AUGUST 01, 2017  
SHEET NUMBER: 6357

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

**SECTION 904 - NOTICE TO BIDDERS NO. 1187**

**CODE: (SP)**

**DATE: 11/14/2018**

**SUBJECT: Temporary Construction Signs**

**PROJECT: MRP-5059-38(190) / 306607302 - Lauderdale County**

Bidders are hereby advised of the following regarding the Temporary Construction Signs required:

Should the Bidders elect to install Temporary Construction Signs by first driving short u-channel sections and then bolting the longer, correct height u-channel sections to them, the Bidders are advised that these short sections shall be a minimum of five (5) feet from the ground level when driven and the splice must consist of a minimum of eighteen (18) inches of overlap with a total of four (4) bolts. Bidders are also advised that it is mandatory that these short sections be removed at the completion of the project.