

MDOT Use Only

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11 -



SM No. CMP2007420101

PROPOSAL AND CONTRACT DOCUMENTS

FOR THE CONSTRUCTION OF

11

Mill & Overlay approximately 12 miles of SR 7 from 2 miles south of Morgan City to Itta Bena, known as State Project No. MP-2007-42(010) / 308294301 in Leflore County.

Project Completion: 166 Working Days

(STATE DELEGATED)

NOTICE

**BIDDERS MUST COMPLETE AN ONLINE REQUEST
FOR PERMISSION TO BID THIS PROJECT.**

Electronic addendum updates will be posted on www.gomdot.com

SECTION 900 OF THE CURRENT 2017 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION JACKSON, MISSISSIPPI

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION
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PROJECT: MP-2007-42(010)/308294301 - Leflore

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

03/28/2024 11:43 AM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 901 - ADVERTISEMENT

Electronic bids will be received by the Mississippi Transportation Commission at 10:00 o'clock A.M., Tuesday, April 23, 2024, from the Bid Express Service and shortly thereafter publicly read on the Sixth Floor for:

Mill & Overlay approximately 12 miles of SR 7 from 2 miles south of Morgan City to Itta Bena, known as State Project No. MP-2007-42(010) / 308294301 in Leflore County.

The attention of bidders is directed to the predetermined minimum wage rate set by the U. S. Department of Labor under the Fair Labor Standards Act.

The Mississippi Department of Transportation hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, sex, age, disability, religion or national origin in consideration for an award.

The specifications are on file in the offices of the Mississippi Department of Transportation.

Contractors may request permission to bid online at <http://shop.mdot.ms.gov> at no cost. Upon approval, Contractors shall be eligible to submit a bid using Bid Express at <http://bidx.com>. Specimen proposals may be viewed and downloaded online at no cost at <http://mdot.ms.gov> or purchased online at <http://shop.mdot.ms.gov> at a cost of Ten Dollars (\$10.00) per proposal plus a small convenience fee. Cash or checks will not be accepted as payment.

Bid bond, signed or countersigned by a Mississippi Agent or Qualified Nonresident Agent, with Power of Attorney attached, a Cashier's check or Certified Check for five (5%) percent of bid, payable to STATE OF MISSISSIPPI, must accompany each proposal.

The attention of bidders is directed to the provisions of Subsection 102.07 pertaining to irregular proposals and rejection of bids.

BRAD WHITE
EXECUTIVE DIRECTOR

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPPLEMENT TO NOTICE TO BIDDERS NO. 1

DATE: 06/08/2021

SUBJECT: Governing Specifications

Change the web address at the end of the first paragraph to the following.

<https://shop.mdot.ms.gov/default.aspx?StoreIndex=1>

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1

CODE: (IS)

DATE: 03/01/2017

SUBJECT: Governing Specifications

The current (2017) Edition of the Standard Specifications for Road and Bridge Construction adopted by the Mississippi Transportation Commission is made a part hereof fully and completely as if it were attached hereto, except where superseded by special provisions, or amended by revisions of the Specifications contained within this proposal. Copies of the specification book may be purchased from the MDOT Construction Division, or online at shopmdot/default.aspx?StoreIndex=1.

A reference in any contract document to controlling requirements in another portion of the contract documents shall be understood to apply equally to any revision or amendment thereof included in the contract.

In the event the plans or proposal contain references to the 2004 Edition of the Standard Specifications for Road and Bridge Construction, it is to be understood that such references shall mean the comparable provisions of the 2017 Edition of the Standard Specifications.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3

CODE: (SP)

DATE: 01/17/2017

SUBJECT: Final Clean-Up

Immediately prior to final inspection for release of maintenance, the Contractor shall pick up, load, transport and properly dispose of all litter from the entire highway right-of-way that is within the termini of the project.

Litter shall include, but not be limited to, solid wastes such a glass, paper products, tires, wood products, metal, synthetic materials and other miscellaneous debris.

Litter removal is considered incidental to other items of work and will not be measured for separate payment.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 13

CODE: (IS)

DATE: 03/01/2017

SUBJECT: Safety Edge

Bidders are hereby advised that the Shoulder Wedge (Safety Edge) specified in Section 401, Asphalt Pavements, shall only apply to the top two (2) lifts of asphalt. Open Graded Friction Courses (OGFC) are not to be considered a lift as it pertains to safety edge. Attached is a drawing showing the safety edge. Note that the shoulder dimensions in the bottom two drawings will be less than three feet (3').



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 113

CODE: (SP)

DATE: 04/18/2017

SUBJECT: Tack Coat

Bidders are advised that in addition to the products listed on the Department's APL as referenced in Subsection 401.03.1.2 on page 256, the Contractor may use one of the following as a tack coat.

- CSS-1
- CSS-1h
- SS-1
- SS-1h

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 445

CODE: (SP)

DATE: 10/10/2017

SUBJECT: Mississippi Agent or Qualified Nonresident Agent

Bidders are hereby advised of the requirements of Subsections 102.08, 103.05.2, and 107.14.2.1 of the *2017 Standard Specifications for Road and Bridge Construction* as it refers to bonding agents. Proposal guaranties, bonds, and liability insurance policies must be signed by a **Mississippi Agent or Qualified Nonresident Agent.**

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 516

CODE: (IS)

DATE: 11/28/2017

SUBJECT: Errata and Modifications to the 2017 Standard Specifications

<u>Page</u>	<u>Subsection</u>	<u>Change</u>
16	102.06	In the seventh full paragraph, change “Engineer” to “Director.”
33	105.05.1	In the sixth sentence, change “Contract Administration Engineer” to “Contract Administration Director.”
34	105.05.2.1	In subparagraph 2, change “SWPPP, ECP” to “SWPPP and the ECP”
35	105.05.2.2	In subparagraphs 2, add “ and” to the end of the sentence. In subparagraph 3, remove “, and” and add “.”.
90	109.04.2	In the last paragraph of subparagraph (a), place a period “.” at the end of the sentence.
93	109.04.2	In the last paragraph of subparagraph (g), place a period “.” at the end of the sentence. Also, in the first paragraph of subparagraph (h), place a period “.” at the end of the sentence.
97	109.07	Under ADJUSTMENT CODE, subparagraph (A1), change “HMA mixture” to “Asphalt mixtures.”
98	109.11	In the third sentence, change “Engineer” to “Director.”
219	308.04	In the last sentence of the last paragraph, change “Contractor’s decision” to “Engineer’s decision.”
300	405.02.5.9	In the first sentence of the second paragraph, change “Hot Mix Asphalt” to “Asphalt Mixtures.”
502	630.01.1	In the first paragraph, change “AASHTO” to “AASHTO’s LRFD”.
636	646.05	Change “each” to “per each” for the pay item units of payment.
640	656.02.6.2	In item 7), change “down stream” to “downstream”.
688	630.03.2	Change the subsection number from “630.03.2” to “680.03.2.”

725 702.08.3 In the second sentence of the first paragraph, change “hot-mix” to “asphalt.”

954 804.02.13.1.6 In the definition for “M” in the % Reduction formulas, change “paragraph 7.3” to “paragraph 5.3.”

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1225

CODE: (SP)

DATE: 11/13/2018

SUBJECT: Early Notice to Proceed

Bidders are advised that if an early notice to proceed is allowed by the Department and the Contractor experiences problems or delays between the early notice to proceed date and the original notice to proceed date, this shall not be justification for any monetary compensation or an extension of contract time.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1226

CODE: (IS)

DATE: 11/16/2018

SUBJECT: Material Storage Under Bridges

Bidders are advised that Subsection 106.08 of the Standard Specifications allows the Contractor to store materials and equipment on portions of the right-of-way. However, the Contractor will not be allowed to store or stockpile materials under bridges without written permission from the Project Engineer. The Contractor shall submit a detailed request of all proposed materials to be stored under bridges to the Engineer a minimum of 14 calendar days prior to anticipated storage. This detail shall include, but not limited to, bridge location, material type, material quantity, and duration of storage. The Project Engineer and any other needed Division will review this information and determine whether to grant approval. The Contractor shall not store any material under any bridge without written approval from the Project Engineer.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1241

CODE: (IS)

DATE: 11/27/2018

SUBJECT: Fuel and Material Adjustments

Bidder's attention is brought to the last paragraph of Subsection 109.07 of the Standard Specifications which states that no fuel or material adjustment will be made after the completion of contract time. Any fuels consumed or materials incorporated into the work during the monthly estimate period falling wholly after the expiration of contract time will not be subject a fuel or material adjustment.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2206

CODE: (IS)

DATE: 01/14/2020

SUBJECT: MASH Compliant Devices

Bidders are hereby advised that compliance associated with the requirements of meeting either the National Cooperative Highway Research Program (NCHRP) Report 350 or the Manual for Assessing Safety Hardware (MASH) for installations of certain traffic control devices and permanent safety hardware devices (guardrails, guardrail terminals, permanent portable barriers, cast-in-place barriers, all other permanent longitudinal barriers, crash cushions, cable barriers, cable barrier terminals, bridge rails, bridge rail transitions, all other terminals, sign supports, and all other breakaway hardware) as listed throughout the Standard Specifications and/or the Standard Drawings, or both, is now replaced with the requirements of meeting the 2016 version of MASH after December 31, 2019. This change applies to new permanent installations and to full replacements of existing installations.

At the preconstruction conference or prior to starting any work on the project, the Contractor shall submit a letter stating that the traffic control devices and permanent safety hardware devices as outlined within the paragraph above that are to be used on the project are certified to meet MASH 2016.

When a MASH 2016-compliant device does not exist for the new permanent installations and/or full replacement installations of permanent safety hardware devices, as listed above, a MASH 2009-compliant or a NCHRP 350-compliant device may be proposed by the Contractor for the project. A written request for such instances must be submitted by the Contractor either at the preconstruction conference or prior to starting any work on the project. The Contractor shall submit the following items to the Project Engineer: (1) a detailed list of the proposed devices and locations thereof; and (2) certification letters indicating that the proposed devices are compliant with either MASH 2009 or NCHRP 350.

When a MASH 2016-compliant device does not exist for the temporary work zone traffic control devices (Category 1, Category 2, and Category 3 devices), a MASH 2009-compliant or a NCHRP 350-compliant device may be proposed by the Contractor for the project. Temporary work zone traffic control devices (Category 1, Category 2, and Category 3 devices) that are MASH 2009-compliant or NCHRP 350-compliant that have been in use prior to December 31, 2019, and that have a remaining service life may be proposed for use throughout their normal service life on the project by the Contractor. For either of these scenarios for temporary work zone traffic control devices, a written request must be submitted by the Contractor either at the preconstruction conference or prior to starting any work on the project. The Contractor shall submit the following items to the Project Engineer: (1) a detailed list of the proposed devices and locations thereof; and (2) certification letters indicating that the proposed devices are compliant with either MASH 2009 or NCHRP 350.

Work will only be allowed to proceed after the Department has granted written concurrence(s) with the proposed request(s) as listed above.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2273

CODE: (SP)

DATE: 02/12/2020

SUBJECT: Mississippi Special Fuel Tax Law

Bidder's attention is brought to the second paragraph of Subsection 107.02 of the Standard Specifications which states that all Contractors and Subcontractors must comply with all requirements contained in the Mississippi Special Fuel Tax Law, Section 27-55-501, *et seq.* Attached are two Fact Sheets provided by the Mississippi Department of Revenue (MDOR) with additional information.

Gasoline and Dyed Diesel Used for Non-Highway Purposes

Mississippi provides a reduced rate for gasoline and dyed diesel used for non-highway purposes. The reduced rates are 6.44 cents per gallon and 5.75 cents per gallon of gasoline or dyed diesel. These fuels are generally taxed at 18 cents per gallon if for on road use.

Gasoline Used for Non-Highway Purposes

You may be entitled to a refund of 11.56 cents per gallon (making this an equivalent to a tax rate of 6.44 cents per gallon) if you desire to purchase gasoline to be used off road. The gasoline must be used for agricultural, maritime, industrial, manufacturing, domestic or non-highway purposes only.

Examples of non-highway include gasoline used in boats, golf carts, machinery used for manufacturing or farm equipment used exclusively in plowing, planting or harvesting farm products.

Refund Gasoline User

The refund is based on the amount of gallons used. Before a refund is issued, you are required to...

1. Obtain a refund gasoline user's permit and a certificate for refund booklet from the Department of Revenue;
2. Have a storage tank marked "REFUND GASOLINE"; and,
3. Purchase the gasoline from someone who holds a refund gasoline dealer's permit.

No refund will be allowed for gasoline used in motor vehicles owned or operated by a government entity or used in Mississippi government contracts.

Refund Gasoline Dealer

You must obtain a refund gasoline dealer's permit from the Department of Revenue before selling refund gasoline. At no time should the gasoline be delivered to a tank that is not properly marked. The gasoline must be dyed a distinctive mahogany color at the time of delivery.

The Department of Revenue may waive the dye requirement if the dye may cause damage to the equipment. The refund gasoline user is required to obtain the waiver from the Department of Revenue.

Dyed Diesel Used for Non-Highway Purposes

Unlike gasoline, you are not required to apply for a refund if you desire to purchase dyed diesel to be used off road. Mississippi provides a reduced rate of 5.75 cents per gallon on dyed diesel used off road. Diesel used on road is subjected to 18 cents per gallon. Dyed diesel used in motor vehicles owned or operated by a government entity or used in Mississippi government contracts will be subjected to 18 cents per gallon.

Dyed Diesel Used on the Highway

Any person who purchases, receives, acquires or uses dyed diesel for highway use will be liable to pay 18 cents per gallon and subject to a penalty in the amount of \$1000.

Identifying Dyed Diesel

Storage facilities for dyed diesel must be plainly marked "NONHIGHWAY DIESEL FUEL" or "NONHIGHWAY KEROSENE". Retailers are also required to mark all pumps or dispensing equipment.



Special Fuel Used on Government Contracts

State and Local Government Contracts

Special fuel purchased, acquired or used in performing contracts with the State of Mississippi, counties, municipalities or any political subdivision is taxed at a rate of 18 cents per gallon. Special fuel includes but is not limited to the following:

- Dyed diesel fuel;
- Kerosene;
- Undyed diesel fuel; and,
- Fuel oil.

State and local government contracts include construction, reconstruction and maintenance or repairs of projects such as roads, bridges, water systems, sewer systems, buildings, drainage canals and recreational facilities. The Department of Revenue may require contractors to remit the excise tax directly to the state in lieu of paying the tax to a distributor.

Special Fuel Direct Pay Permit

Contractors that remit the excise tax to the state will be issued a Special Fuel Direct Pay Permit. This permit relieves the distributor from collecting the tax and requires the contractor to file a monthly special fuel return. The distributor should include the contractor’s permit number on all invoices that are related to tax-free sales.

The contractor is required to furnish a surety or cash bond guaranteeing the payment of the excise tax prior to receiving the Special Fuel Direct Pay Permit. The Department of Revenue may accept a contractors tax bond if the bond covers the excise tax levied on special fuel.

Special Fuel Distributors

If the contractor does not have a Special Fuel Direct Pay Permit, distributors are required to collect the 18 cents excise tax and remit the tax to the Department of Revenue. The additional 12.25 cents levied on special fuel (excluding undyed diesel) should be reported on schedules 5F and 5G of the special fuel return.

Environmental Protection Fee

Special fuel distributors are required to collect the environmental protection fee even if the contractor has a Special Fuel Direct Pay Permit. The fee is levied at 4/10^{ths} of a cent per gallon. The fee is suspended or reinstated when the trust fund has exceeded or fallen below the obligatory balance.

Penalties

Any person who knowingly and willfully purchases untaxed fuel for use in equipment utilized on a road or highway construction site in this state is guilty of a misdemeanor and, upon conviction, shall be fined not less than \$1,000 or more than \$100,000, or imprisoned in the county jail for not more than one year, or both.



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2954

CODE: (IS)

DATE: 12/01/2020

SUBJECT: Reflective Sheeting for Signs

Bidders are hereby advised that the retroreflective sign sheeting used for signs on this project shall be as listed below and shall meet the requirements of Subsection 721.06.

Temporary Construction Signs

Temporary traffic control (orange) sign sheeting shall be a minimum Type IX Fluorescent Orange sheeting as shown in Special Provision 907-721.

Permanent Signs

Permanent signs, except signs on traffic signal poles/mast arms, shall be as follows:

- Brown background sheeting on guide signs shall be a minimum Type VIII sheeting,
- Green and blue background sheeting on guide signs shall be a minimum Type IX sheeting, and
- All white, yellow, red, fluorescent yellow, and fluorescent yellow/green sheeting shall be Type XI sheeting.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| **SUPPLEMENT TO NOTICE TO BIDDERS NO. 3599**

| **DATE: 08/11/2021**

| After the last drawing on page 33, add the following.

STATE MISS. PROJECT NO.

ES-1

ES-1a

E2-1P

E2-1P

D8-1

D8-2

D8-3

R13-1

D5-1

D5-1a

D5-2a

D5-6

D5-1b

D5-2b

GENERAL NOTES:
1. THE HORIZONTAL SPACING SHOWN ON THESE DRAWINGS IS FOR REMOVABLE COPY TYPE B. USE SPECIFICATIONS FOR REMOVABLE COPY TYPE B. THE VERTICAL SPACING WILL REMAIN THE SAME REGARDLESS OF WHICH TYPE IS USED. ANY CHANGE IN HORIZONTAL SPACING WILL BE SUBJECT TO APPROVAL BY THE ROADWAY DESIGN ENGINEER.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**STANDARD DIRECTIONAL
(GUIDE) SIGNS**

REVISION	DATE

ISSUE DATE: MAY 01, 2012
SHEET NUMBER: SN-1
WORKING NUMBER: 6301

STATE MISS.	PROJECT NO.	
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GENERAL NOTES:

- U.S. AND MISSISSIPPI SHIELDS DO NOT HAVE AN OUTSIDE BORDER.
- INTERSTATE, U.S. AND MISSISSIPPI SHIELDS ARE TO BE USED ONLY ON GUIDE SIGNS. SEE OTHER DRAWINGS FOR SHIELDS TO BE USED INDEPENDENTLY AS ROUTE NUMBERS.
- ON INTERSTATE SHIELDS, THE LEGEND AND BACKGROUND SHALL BE REFLECTORIZED.
- ON U.S. AND MISSISSIPPI SHIELDS, THE BACKGROUND SHALL BE REFLECTORIZED.
- IN SOME CASES, NUMERALS CANNOT BE ACCOMMODATED WITHIN THE SHIELD. THESE NUMERALS SHOULD BE REDUCED TO SERIES "C" NUMERALS OR AS SMALLER HEIGHT COMMONLY AVAILABLE.

	18" NUMERALS			24" NUMERALS		
	2-DIGIT	3-DIGIT	3-DIGIT	2-DIGIT	3-DIGIT	3-DIGIT
A	24"	30"	36"	48"	48"	48"
B	24"	24"	36"	48"	48"	48"
C	15"	17"	25 1/2"	30"	34"	34"
D	5"	5"	7 1/2"	7 1/2"	10"	10"
E	1/2"	1/2"	3/4"	1"	1"	1"
F	100	100	150	200	200	200
G	1/2"	1/2"	3/4"	1"	1"	1"
H	1"	1"	1 1/2"	2"	2"	2"
I	1/2"	1/2"	3/4"	1"	1"	1"
J	1/2"	1/2"	3/4"	1"	1"	1"
K	1/2"	1/2"	3/4"	1"	1"	1"
L	1/2"	1/2"	3/4"	1"	1"	1"
M	1/2"	1/2"	3/4"	1"	1"	1"
N	15 3/8"	21 3/8"	24 3/8"	34 3/8"	38 3/8"	43 3/8"
P	10 3/4"	10 3/4"	16 3/4"	16 3/4"	21 1/2"	21 1/2"

	18" NUMERALS			24" NUMERALS		
	2-DIGIT	3-DIGIT	3-DIGIT	2-DIGIT	3-DIGIT	3-DIGIT
A	24"	30"	36"	48"	48"	48"
B	24"	24"	36"	48"	48"	48"
C	15"	17"	25 1/2"	30"	34"	34"
D	5"	5"	7 1/2"	7 1/2"	10"	10"
E	1/2"	1/2"	3/4"	1"	1"	1"
F	100	100	150	200	200	200
G	1/2"	1/2"	3/4"	1"	1"	1"
H	1"	1"	1 1/2"	2"	2"	2"
I	1/2"	1/2"	3/4"	1"	1"	1"
J	1/2"	1/2"	3/4"	1"	1"	1"
K	1/2"	1/2"	3/4"	1"	1"	1"
L	1/2"	1/2"	3/4"	1"	1"	1"
M	1/2"	1/2"	3/4"	1"	1"	1"
N	15 3/8"	21 3/8"	24 3/8"	34 3/8"	38 3/8"	43 3/8"
P	10 3/4"	10 3/4"	16 3/4"	16 3/4"	21 1/2"	21 1/2"

	18" NUMERALS			24" NUMERALS		
	2-DIGIT	3-DIGIT	3-DIGIT	2-DIGIT	3-DIGIT	3-DIGIT
A	24"	30"	36"	48"	48"	48"
B	24"	24"	36"	48"	48"	48"
C	15"	17"	25 1/2"	30"	34"	34"
D	5"	5"	7 1/2"	7 1/2"	10"	10"
E	1/2"	1/2"	3/4"	1"	1"	1"
F	100	100	150	200	200	200
G	1/2"	1/2"	3/4"	1"	1"	1"
H	1"	1"	1 1/2"	2"	2"	2"
I	1/2"	1/2"	3/4"	1"	1"	1"
J	1/2"	1/2"	3/4"	1"	1"	1"
K	1/2"	1/2"	3/4"	1"	1"	1"
L	1/2"	1/2"	3/4"	1"	1"	1"
M	1/2"	1/2"	3/4"	1"	1"	1"
N	15 3/8"	21 3/8"	24 3/8"	34 3/8"	38 3/8"	43 3/8"
P	10 3/4"	10 3/4"	16 3/4"	16 3/4"	21 1/2"	21 1/2"

GENERAL NOTES:

- THESE SIGNS SHALL BE FABRICATED ON 0.063" THICK ALUMINUM OR GALVANIZED STEEL. THE NUMERALS (OR LETTERS) ARE TO BE REVERSED DIRECTIONAL SIGNS DESIGNATED ON PLANS. THESE SIGNS WILL NOT BE PAID FOR AS SEPARATE SIGNS BUT SHALL BE CONSIDERED AS PART OF THE MAJOR SIGNS TO WHICH THEY ARE AFFIXED.
- LETTER SIZE: 12" SERIES "D"
- COLOR: LEGEND - BLACK; BACKGROUND - HI-INTENSITY YELLOW

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

ROUTE SHIELDS AND "EXIT ONLY" PANELS

WORKING NUMBER: SN-2
SHEET NUMBER: 63/62

ISSUE DATE: MAY 01, 2017

SIGN NUMBER	STATE PROJECT NO.		M-6	M-4	M-1	M-5	D16-4	D10-3a	D10-2a	D10-1a	D10-2	D10-3	D10-1	D10-2	D10-1	D10-2	D10-3	D10-1a	D10-2a	D10-3a	D10-4	M-0+5	M-1	M-1	M-4	M-6			
	ALUMINUM (6061-T6) SIGN BLANK THICKNESS	MISS.																											
432 φ = 11" (24" X 24") φ = VAR. (30" X 24")	WEST MILE 41 2	MILE 4 4 4 2	MILE 4 4 2	MILE 1 2 3	MILE 1 2	MILE 1	JCT	SOUTH	SOUTH	SOUTH	TO	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	WEST MILE 41 2	WEST MILE 41 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	WEST MILE 41 2	WEST MILE 41 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2		
432 φ = 11" (24" X 24") φ = VAR. (30" X 24")	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 1 2 3	MILE 1 2	MILE 1	JCT	SOUTH	SOUTH	SOUTH	TO	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	WEST MILE 41 2	WEST MILE 41 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	
432 φ = 11" (24" X 24") φ = VAR. (30" X 24")	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 1 2 3	MILE 1 2	MILE 1	JCT	SOUTH	SOUTH	SOUTH	TO	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	WEST MILE 41 2	WEST MILE 41 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2	MILE 4 4 2

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN DIVISION
 STANDARD PLAN

STANDARD ROADSIDE SIGNS

ISSUE DATE: MAY 01, 2017
 SHEET NUMBER 02003
 SIGN 3

REVISION	DATE

GENERAL NOTES:

- THE DIMENSIONS FOR THE INTERSTATE AND U.S. SHIELDS SHALL CONFORM WITH THOSE SHOWN IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ROUTE MARKERS AND SHIELDS SHOWN ON THIS SHEET ARE FOR USE INDEPENDENTLY FOR INTERSTATE DIRECTIONAL GUIDED SIGNS. SEE OTHER DRAWINGS FOR SHIELDS TO BE USED ON INTERSTATE DIRECTIONAL GUIDED SIGNS.
- THE QUANTITIES LISTED ON THIS SHEET WILL BE USED AS THE BASIS FOR FINAL PAYMENT, EXCEPT WHERE SIGNS ARE MODIFIED FROM THAT SHOWN.

* IN SOME CASES, NUMERALS CANNOT BE ACCOMMODATED WITHIN THE SPACE AVAILABLE. FOR THESE SITUATIONS, THE STANDARD SERIES "D" NUMERAL SHALL BE REDUCED TO SERIES "C".

SIGN NUMBER		R1-1	R1-2	R2-1	R2-4g	R3-1	R3-2	R3-4	R3-5	R4-3
ALUMINUM (6061-T6) SIGN BLANK THICKNESS		0.125"	0.080"	0.100"	0.125"	0.080"	0.100"	0.080"	0.080"	0.100"
LEGEND										
LETTER & NUMERICAL SERIES		12" SERIES 'C'	6" RED 5" WHITE	6" SERIES 'E' 4" SERIES 'E' 4" SERIES 'E'	8" SERIES 'E' 10" SERIES 'E' 10" SERIES 'E'	6" SERIES 'E' 8" SERIES 'E' 8" SERIES 'E'	6" SERIES 'E' 8" SERIES 'E' 8" SERIES 'E'	6" SERIES 'D' 8" BLACK 8" WHITE	6" SERIES 'D' 8" BLACK 8" WHITE	6" SERIES 'D' 8" BLACK 8" WHITE
WIDTH OF BORDER		1/4" WHITE	1/2" WHITE	1/2" WHITE	1/2" WHITE	1/2" WHITE	1/2" WHITE	3/4" BLACK 3/4" WHITE	3/4" BLACK 3/4" WHITE	3/4" BLACK 3/4" WHITE
SIZE (WIDTH X HEIGHT)		36" OCTAGON	48" TRIANGLE	36" X 48"	48" X 96"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	36" X 48"
COLORS		WHITE RED	RED WHITE	BLACK WHITE	BLACK WHITE	BLACK & RED WHITE	BLACK & RED WHITE	BLACK & RED WHITE	BLACK & RED WHITE	BLACK WHITE
REFLECTORIZATION		ALL	ALL	B'GROUND	BACKGROUND	CIRCLE & DIAG. CIRCLE & DIAG.	CIRCLE & DIAG. CIRCLE & DIAG.	BACKGROUND	BACKGROUND	BACKGROUND
NUMBER OF POSTS		1	1	1	1	1	1	1	1	1
TURNING POINTS TO BE PUNCHED (% DIA.)		0	0	0	0	0	0	0	0	0
PUNCHING DISTANCE FROM CENTER		18" VERT.	12" FROM CENTER	12" VERT. CENTER	12" VERT. CENTER	12" VERT. CENTER	12" VERT. CENTER	12" VERT. CENTER	15" VERT. CENTER	15" VERT. CENTER
PUNCHING DISTANCE FROM TOP EDGE		3", 33"	3", 15"	3", 21"	4", 28", 52", 60", 92"	3", 21"	3", 21"	3", 21"	6", 30"	6", 30", 56"
SIGN NUMBER		R4-7	R4-2	R6-3	R5-1a	R6-1L, R6-1R	R6-2L, R6-2R	R8-4	R8-5	R11-1
ALUMINUM (6061-T6) SIGN BLANK THICKNESS		0.080"	0.125"	0.080"	0.100"	0.080"	0.080"	0.080"	0.125"	0.125"
LEGEND										
LETTER & NUMERICAL SERIES		R1/2"	R3"	R1 1/2"	R2 1/4"	R1 1/2"	R1 1/2"	R2 1/4"	R1 1/2"	R1 1/2"
WIDTH OF BORDER		3/8" BLACK 3/8" WHITE	1/4" BLACK 1/4" WHITE	3/8" BLACK 3/8" WHITE	1" WHITE	1/2" WHITE	3/4" BLACK 3/4" WHITE	3/4" BLACK 3/4" WHITE	3/4" BLACK 3/4" WHITE	1/2" BLACK 1/2" WHITE
SIZE (WIDTH X HEIGHT)		24" X 30"	48" X 60"	36" X 36"	42" X 30"	35" X 12"	24" X 30"	30" X 24"	48" X 36"	48" X 60"
COLORS		BLACK WHITE	BLACK WHITE	WHITE RED	WHITE RED	BLACK (WHITE ARROW) BLACK	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE
REFLECTORIZATION		BACKGROUND	BACKGROUND	ALL	ALL	ARROW & BORDER	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND
NUMBER OF POSTS		1	1	1	1	1	1	1	1	1
TURNING POINTS TO BE PUNCHED (% DIA.)		0	0	0	0	0	0	0	0	0
PUNCHING DISTANCE FROM EACH VERTICAL EDGE		12" VERT. CENTER	15" VERT. CENTER	15" VERT. CENTER	18" VERT. CENTER	18" VERT. CENTER	12" VERT. CENTER	15" VERT. CENTER	9"	9"
PUNCHING DISTANCE FROM TOP EDGE		3", 27"	4", 30", 56"	6", 30"	3", 27"	3", 27"	3", 27"	3", 27"	9", 33"	4", 30", 56"

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**STANDARD
ROADSIDE SIGNS**

ISSUE DATE: MAY 01, 2017

WORKING NUMBER: SN-3A
SHEET NUMBER: 62/64

GENERAL NOTES:

1. THE QUANTITIES LISTED ON THE SUMMARY OF QUANTITIES SHEET FOR THE SIGNS SHOWN ON THIS SHEET WILL BE USED AS THE BASIS FOR FINAL PAYMENT, EXCEPT WHERE SIGNS ARE MODIFIED FROM THAT SHOWN.
2. THE SPEED LIMITS REQUIRED ON SIGNS R2-1 AND R2-4g WILL BE SHOWN ON INDIVIDUAL PLAN SHEETS.

STATE MISS.	PROJECT NO.		
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ROADSIDE SIGN IN RURAL AREA

12 FT. MIN.

7 FT. MIN.

ROADSIDE SIGN IN BUSINESS, COMMERCIAL, OR RESIDENTIAL AREA

7 FT. MIN.

2 FT. MIN.

7 FT. MIN.

WARNING SIGN WITH ADVISORY SPEED PLAQUE IN RURAL AREA

12 FT. MIN.

7 FT. MIN.

5 FT. MIN.

* THE 2 FT. MINIMUM OFFSET APPLIES ONLY TO STANDARD SIGNS MOUNTED ON U-POSTS. ALL STANDARD SIGNS MOUNTED ON PIPE WILL BE OFFSET 4 FT. FROM THE SHOULDERS.

ROADSIDE SIGN IN RURAL AREA

SHOULDER WIDER THAN 6 FT.

6 FT. MIN.

7 FT. MIN.

INTERSTATE OR FREEWAY SIGN WITH SECONDARY SIGN

12 FT. MIN.

5 FT. MIN.

7 FT. MIN.

OVERHEAD SIGN

17 FT. MIN.

6 FT. MIN.

ROADSIDE ASSEMBLY IN RURAL AREA

12 FT. MIN.

7 FT. MIN.

SIGNS IN ISLANDS OR BEHIND CURB USING U-POSTS OR PIPE POSTS

PLAN

ELEVATION

SIGN ON NOSE OF MEDIAN

7 FT. MIN.

4 FT. MIN.

GENERAL NOTES:

- SEE SECTION 2A-19 OF THE MUTCD FOR REDUCED LATERAL OFFSET DISTANCES THAT MAY BE USED IN AREAS WHERE LATERAL OFFSETS ARE LIMITED, AND IN BUSINESS, COMMERCIAL, OR RESIDENTIAL AREAS WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING POLES ARE CLOSE TO THE CURB.
- LOCATED OUTSIDE THE CLEAR ZONE UNLESS PLACED ON A BREAKAWAY OR YIELDING SUPPORT.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

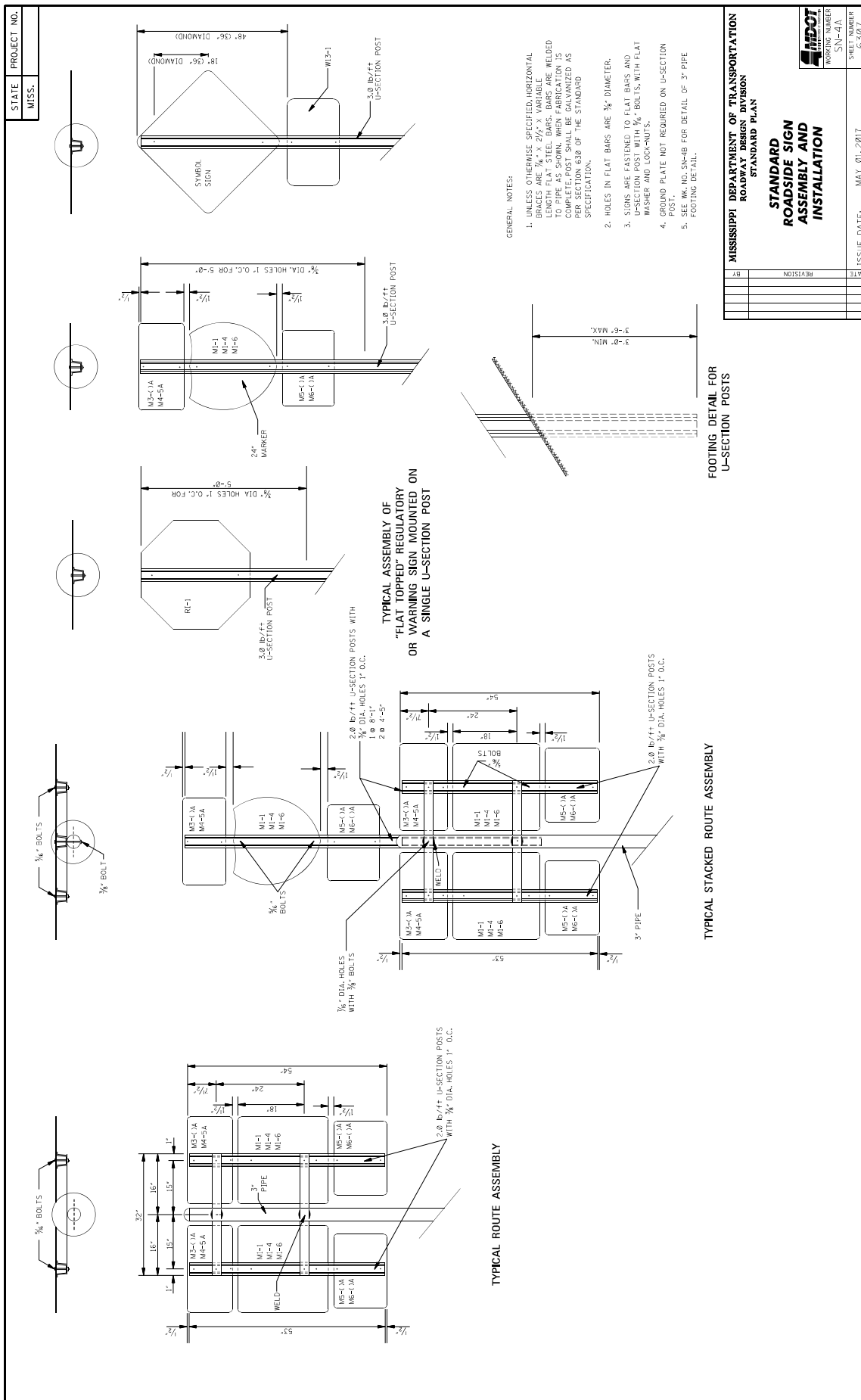
STANDARD SIGN ASSEMBLY AND INSTALLATION

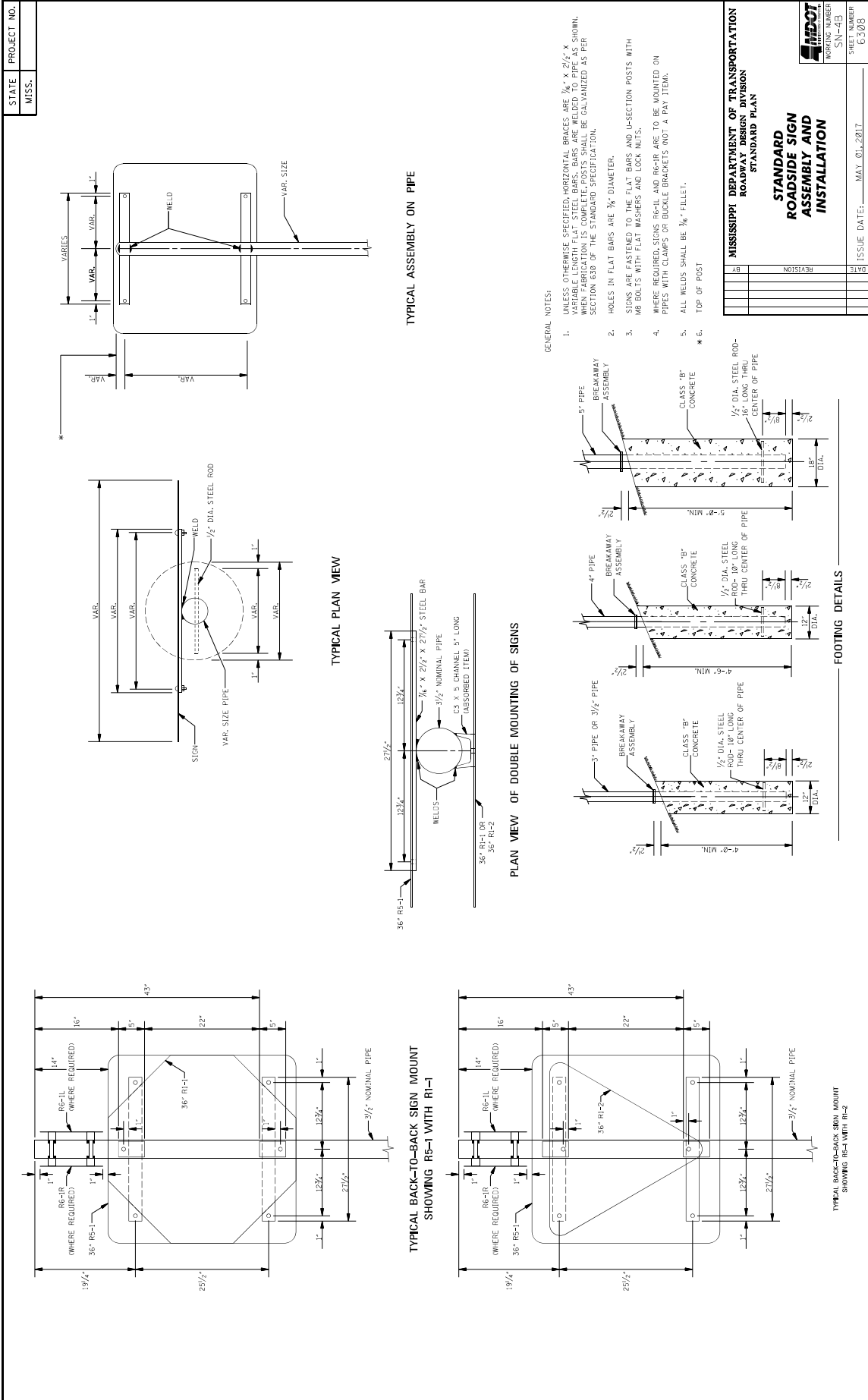
DATE	REVISION

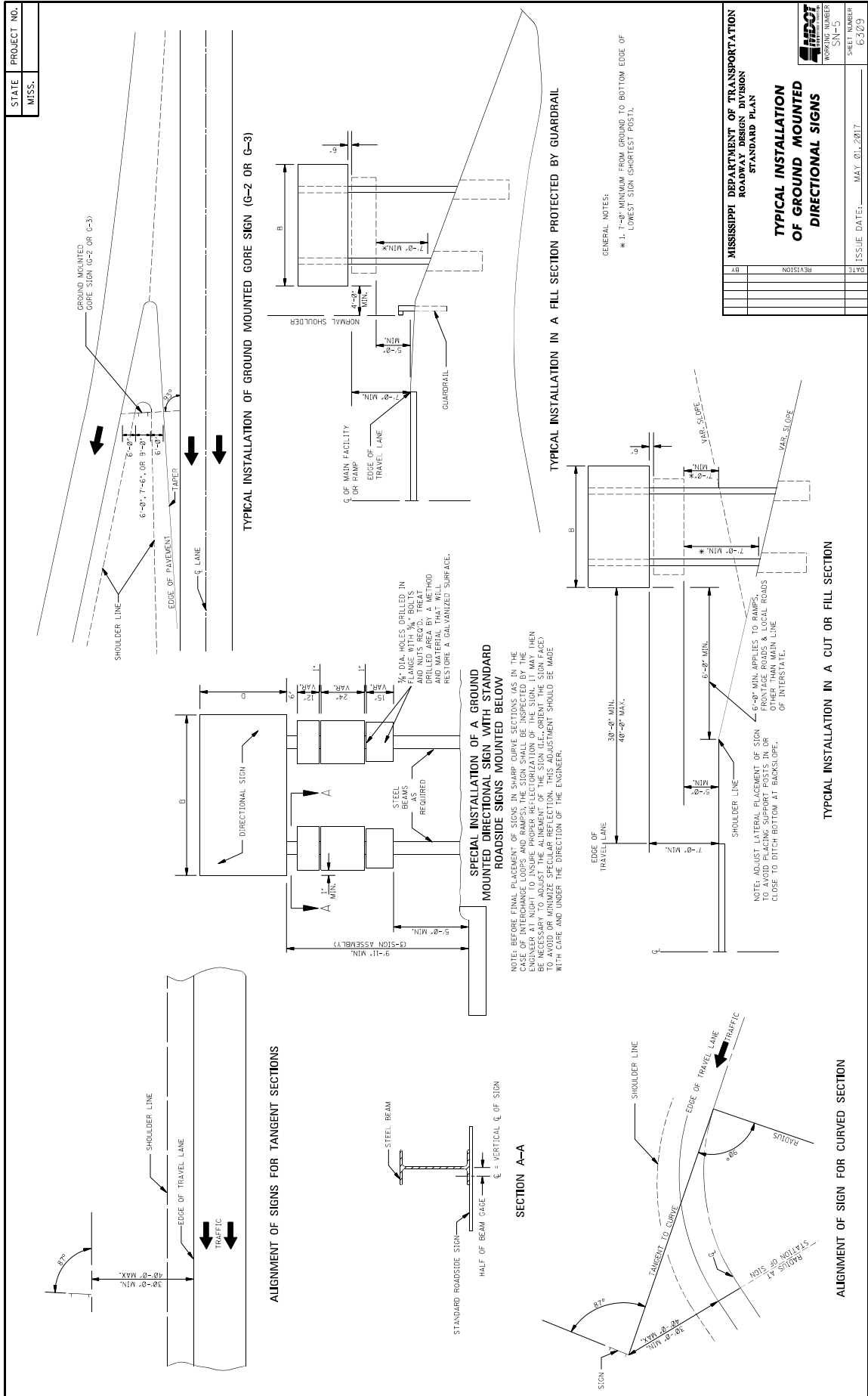
ISSUE DATE: MAY 01, 2017

SHEET NUMBER: SN-4

TOTAL SHEETS: 63/66







STATE PROJECT NO.
MISS.

GENERAL NOTES FOR WORKING SHEETS SN-6, SN-6A AND SN-6B:

- FOUNDING**
ALL FOOTINGS SHALL BE CLASS 'B' CONCRETE. POST STUBS SHALL BE SET IN CONCRETE FOOTING AT REQUIRED GRADE AND ALLOWMENT WITH CARE SO THAT MINIMUM SHIMMING WILL BE REQUIRED.
- BASE CONNECTION PROCEDURE**
ASSEMBLE POST TO STUB WITH BOLTS AND WITH A FLAT WASHER ON EACH BOLT BETWEEN PLATES. SHIM AS REQUIRED TO PLUMB POST. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH A 12" TO 15" WRENCH TO BED WASHERS AND STUBS AND TO CLEAR BOLT HEADS. THEN LOOSEN EACH BOLT TO 1/2 TURN. REMOVE WASHERS AND STUBS FROM POST. RE-TIGHTEN EACH BOLT TO 1/2 TURN. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH. HIGH STRENGTH BOLTS IN BASE CONNECTIONS SHALL BE TIGHTENED TO TORQUE AS SHOWN BY TABLE ON SN-6A. DO NOT OVER TIGHTEN.
- POST LENGTH**
ALL POST LENGTHS SHALL BE VERIFIED AND APPROVED BY THE ENGINEER PRIOR TO FABRICATION. WHERE FIELD CONDITIONS REQUIRE THE POST LENGTH TO VARY MORE THAN 12", IT MAY BE NECESSARY TO CHANGE THE SIZE OR NUMBER OF POSTS. SUCH DETERMINATION WILL BE MADE BY THE ROADWAY DESIGN ENGINEER. ANY CHANGE OF SIZE OR NUMBER OF POSTS SHALL NOT BE JUSTIFICATION FOR ANY CONTRACT PRICE ADJUSTMENTS.
- FABRICATOR NOTE**
IMPORTANT - ALL FRICTION FUSE BOLTS SHALL BE TIGHTENED IN SHOP BY A METHOD APPROVED BY THE BRIDGE DESIGN ENGINEER. TIGHTENING SHALL BE TO SUCH A DEGREE AS TO PROVIDE THE MINIMUM TENSION IN EACH BOLT WHEN ALL BOLTS ARE TIGHT, AS SHOWN BY TABLE SN-6A.
- ALL HOLES IN FUSE PLATES AND HINGE PLATES SHALL BE DRILLED.
- ALL PLATE CUTS SHALL PREFERABLY BE SAW CUTS. FLAME CUTTING WILL BE PERMITTED PROVIDED ALL EDGES ARE GRINDING. METAL PROJECTING BEYOND THE PLANE OF THE PLATE FACE WILL NOT BE ACCEPTABLE.
- WELDING FOR STEEL SIGN SUPPORTS**
WELDING SHALL BE PERFORMED IN SHOP BY ELECTRIC ARC PROCESS.
- MATERIAL SPECIFICATIONS**
THE MATERIALS USED IN THE CONSTRUCTION OF THE GROUND MOUNTED SIGN SUPPORT STRUCTURES, AS LISTED BELOW SHALL CONFORM WITH THE REQUIREMENTS OF THE DESIGNATED ASTM SPECIFICATION. ALL OTHER MATERIALS, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS, EXCEPT AS OTHERWISE NOTED ON THE PLANS.

DESCRIPTION	MATERIALS PER ASTM SPECIFICATION	GALVANIZE PER ASTM DESIGNATION
POSTS OF STEEL PIPE	A 53 (GRADE 20) (2)	A 153
BASE CONNECTION PLATES FOR PIPES	A 36	A 123
POSTS OF STEEL W-8 AND T BEAMS INCLUDING BASE CONNECTION, FUSE AND HINGE PLATES, ANGLES AND FLAT BARS USED IN FABRICATION AND ERECTION OF SIGN SUPPORTS	A 588 OR A 572 GRADE 50	A 123
HIGH STRENGTH BOLTS, NUTS AND WASHERS OTHER THAN HIGH STRENGTH (3)	A 36	A 123
	A 307 (GRADE 24)	A 153

- ALL STEEL SHALL BE GALVANIZED AFTER FABRICATION EXCEPT AS NOTED ON THE PLANS.
- PIPES MAY BE WELDED OR SEAMLESS.
- BOLTS, WASHERS, AND NUTS USED FOR FASTENING ALUMINUM SIGN SHEETS AND PANELS SHALL BE ALUMINUM AS PER FOLLOWING TABLE.

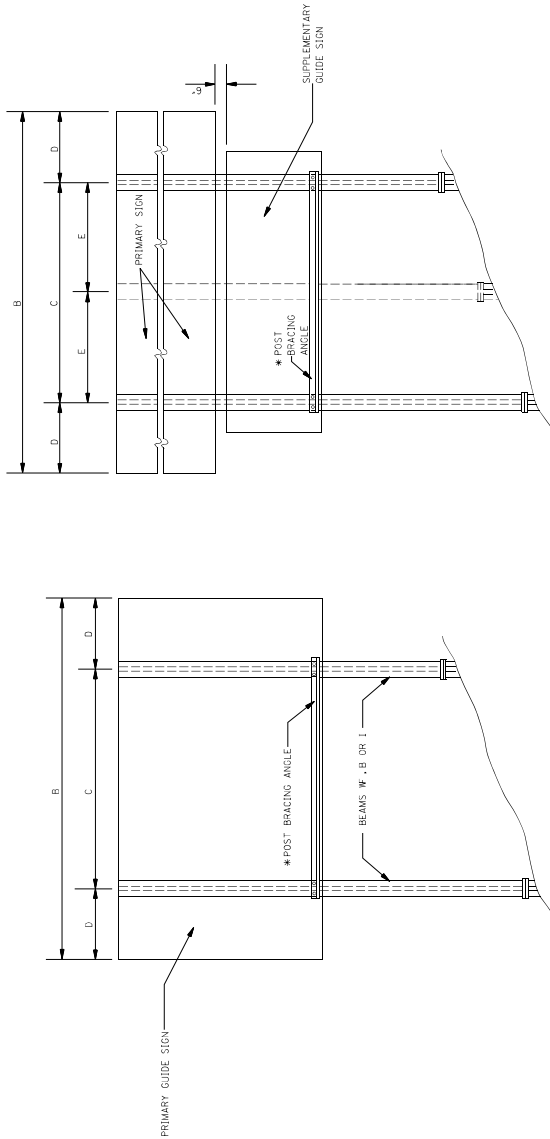
DESCRIPTION	ASTM DESIGNATION	ALLOY
BOLTS AND WASHERS	B 228	2024-T4
PANEL BOLT NUTS	B 211	6063-T6
STOP NUTS	B 211	2017-T4

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**BREAKAWAY
SIGN SUPPORTS**

WORKING NUMBER: SN-6
SHEET NUMBER: 6310

ISSUE DATE: MAY 01, 2017

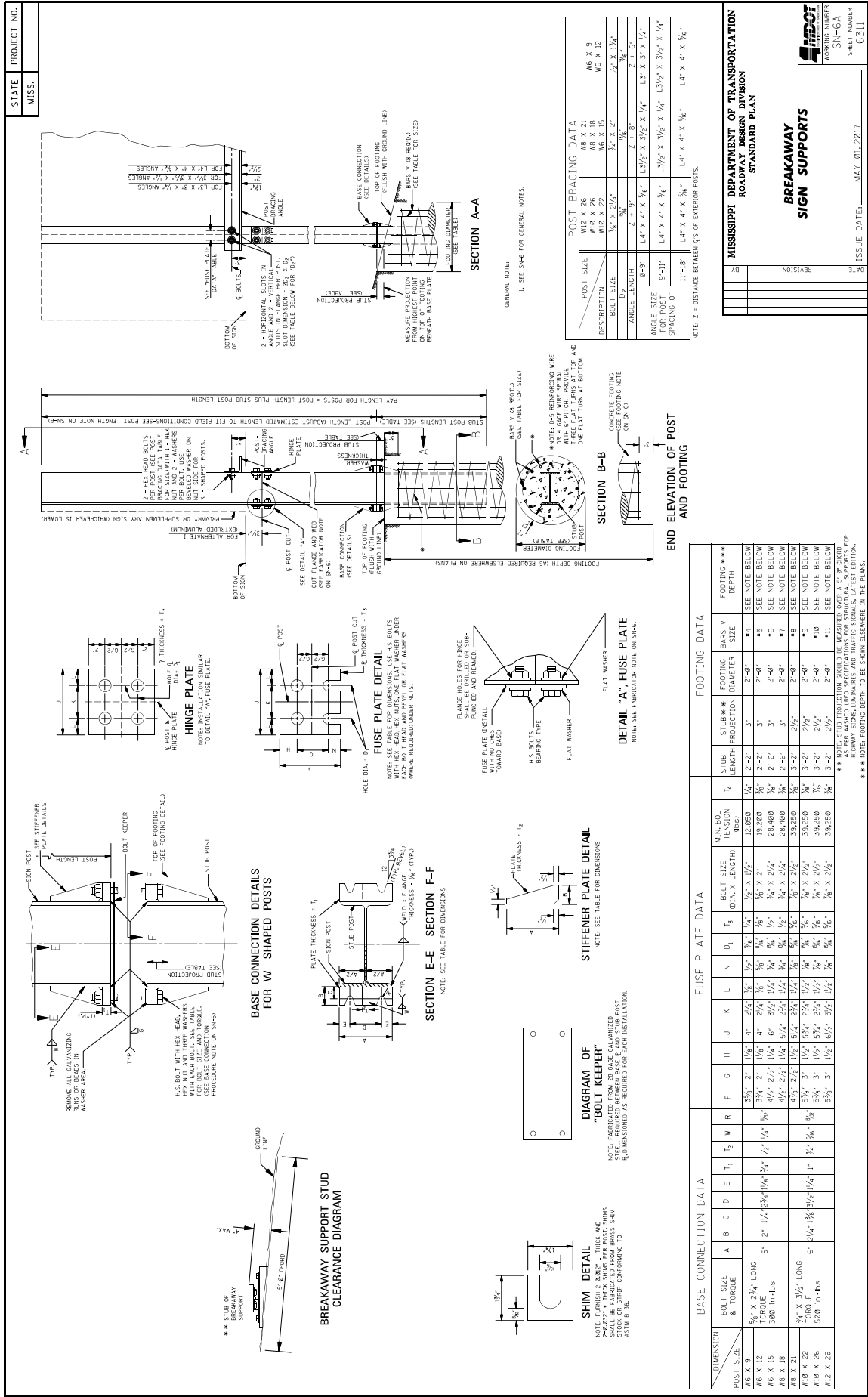


TYPICAL 2-POST INSTALLATION WITHOUT EXIT SIGN

TYPICAL 2 OR 3 POST INSTALLATION WITH SUPPLEMENTARY GUIDE SIGN AND POST BRACING ANGLE LOCATION

* NOTE: PLACE POST BRACING ANGLE AT BOTTOM OF PRIMARY OR SUPPLEMENTARY SIGN WHICHEVER IS LOWER. (SEE "END ELEVATION OF POST AND FOOTING" ON SN-6A.)

2 POST		3 POST	
POST ELEVATION	POST SPACING	POST ELEVATION	POST SPACING
4'-0"	11'-0"	4'-0"	11'-0"
4'-6"	11'-6"	4'-6"	11'-6"
5'-0"	12'-0"	5'-0"	12'-0"
5'-6"	12'-6"	5'-6"	12'-6"
6'-0"	13'-0"	6'-0"	13'-0"
6'-6"	13'-6"	6'-6"	13'-6"
7'-0"	14'-0"	7'-0"	14'-0"
7'-6"	14'-6"	7'-6"	14'-6"
8'-0"	15'-0"	8'-0"	15'-0"
8'-6"	15'-6"	8'-6"	15'-6"
9'-0"	16'-0"	9'-0"	16'-0"
9'-6"	16'-6"	9'-6"	16'-6"
10'-0"	17'-0"	10'-0"	17'-0"
10'-6"	17'-6"	10'-6"	17'-6"
11'-0"	18'-0"	11'-0"	18'-0"
11'-6"	18'-6"	11'-6"	18'-6"
12'-0"	19'-0"	12'-0"	19'-0"
12'-6"	19'-6"	12'-6"	19'-6"
13'-0"	20'-0"	13'-0"	20'-0"
13'-6"	20'-6"	13'-6"	20'-6"
14'-0"	21'-0"	14'-0"	21'-0"
14'-6"	21'-6"	14'-6"	21'-6"
15'-0"	22'-0"	15'-0"	22'-0"
15'-6"	22'-6"	15'-6"	22'-6"
16'-0"	23'-0"	16'-0"	23'-0"
16'-6"	23'-6"	16'-6"	23'-6"
17'-0"	24'-0"	17'-0"	24'-0"
17'-6"	24'-6"	17'-6"	24'-6"
18'-0"	25'-0"	18'-0"	25'-0"
18'-6"	25'-6"	18'-6"	25'-6"
19'-0"	26'-0"	19'-0"	26'-0"
19'-6"	26'-6"	19'-6"	26'-6"
20'-0"	27'-0"	20'-0"	27'-0"
20'-6"	27'-6"	20'-6"	27'-6"
21'-0"	28'-0"	21'-0"	28'-0"
21'-6"	28'-6"	21'-6"	28'-6"
22'-0"	29'-0"	22'-0"	29'-0"
22'-6"	29'-6"	22'-6"	29'-6"
23'-0"	30'-0"	23'-0"	30'-0"
23'-6"	30'-6"	23'-6"	30'-6"
24'-0"	31'-0"	24'-0"	31'-0"
24'-6"	31'-6"	24'-6"	31'-6"
25'-0"	32'-0"	25'-0"	32'-0"
25'-6"	32'-6"	25'-6"	32'-6"
26'-0"	33'-0"	26'-0"	33'-0"
26'-6"	33'-6"	26'-6"	33'-6"
27'-0"	34'-0"	27'-0"	34'-0"
27'-6"	34'-6"	27'-6"	34'-6"
28'-0"	35'-0"	28'-0"	35'-0"
28'-6"	35'-6"	28'-6"	35'-6"
29'-0"	36'-0"	29'-0"	36'-0"
29'-6"	36'-6"	29'-6"	36'-6"
30'-0"	37'-0"	30'-0"	37'-0"
30'-6"	37'-6"	30'-6"	37'-6"



STATE PROJECT NO.
MISS.

DATE: _____
ISSUE DATE: MAY 01, 2017

FRICION CAP DETAIL
NOTE: SEE NOTE 3

FRICION CAP DETAIL (SEE DETAIL)
SIGN FACE
PIPE O.D.
1" MIN. 1/4" MAX.

SHIM DETAIL

SHIM DETAIL
NOTE: FINISH 240-20/25. THICK AND GALVANIZED. PER PART SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO ASTM B 36.

MULTI-DIRECTIONAL SIGN POST & STUB POST

MULTI-DIRECTIONAL SIGN POST & STUB POST
U.S. HEX. BOLT
NOTE: SEE TABLE FOR SIZE. 3 WASHERS ALSO REQUIRED PER BOLT.

BOLT KEEPER PLATE DETAIL

BOLT KEEPER PLATE DETAIL
NOTE: TO BE FABRICATED FROM 28 GAGE TYPE 304 GALVANIZED STEEL. TO BE INSTALLED AS SHOWN IN DETAIL AT UPPER LEFT.

GENERAL NOTES: (SEE MK. NO. SN-6 FOR ADDITIONAL GENERAL NOTES)

- THE TOP PLATE OF THE TRIANGULAR SLIP BASE SHALL HAVE THE SAME EXTERIOR DIMENSIONS AS THE BOTTOM PLATE. THE LIFTING CONE SHALL BE WELDED TO THE BOTTOM PLATE ONLY. A HOLE EQUAL TO THE INSIDE DIAMETER OF THE SIGN POST SHALL BE LOCATED AT THE CENTER OF THE TOP PLATE WITH THE HOLE EDGE BEVELLED AS DETAILED. TOP & BOTTOM PLATES SHALL BE SYMMETRICAL FOR THE PURPOSE OF ASSEMBLY IN ANY POSITION.
- BASE CONNECTION ASSEMBLY AS FOLLOWS:
 - ASSEMBLE POST TO STUB WITH 3 BOLTS AND WITH 3 FLAT WASHERS PER BOLT.
 - SHIM AS REQUIRED TO PLUMB POST TO BE ASSEMBLED WITH A 1/2" TO 1/4" GAP BETWEEN EACH SHIM AND THE SIGN POST.
 - 1/2" WRENCH TO BED WASHERS, KEEPER PLATE, SHIMS AND TO CLEAN THREADS.
 - LOOSEN EACH BOLT IN TURN & RETIGHTEN IN A SYSTEMATIC MANNER TO PRESCRIBED TORQUE. SEE BASE CONNECTION DATA TABLE.
 - BURR THREADS AT JUNCTION WITH NUT WITH A CENTER PUNCH TO PREVENT NIT FROM LOOSENING.
- FRICION CAPS TO BE MANUFACTURED FROM HOT ROLLED OR COLD ROLLED STEEL SHEETS. FOR ALL PIPE SIZES, MINIMUM THICKNESS SHALL BE 20 GAGE SHEET METAL. RIM EDGES SHALL BE REASONABLY STRAIGHT AND SMOOTH. CAPS SHALL BE MANUFACTURED TO FIT THE SIGN POST. CAPS SHALL BE A DRIVE-IN FRICTION FIT AND HAVE NO TENDENCY TO ROCK WHEN SEATED ON PIPE. THE DEPTH SHALL BE SUFFICIENT TO GIVE POSITIVE PROTECTION AGAINST ENTRANCE OF RAINWATER. CAPS SHALL BE MANUFACTURED TO FIT THE SIGN POST AND SHOW NO SIGNS OF METAL FRACTURE. ALL CAPS TO BE SAME IN SHAPE AND GENERAL APPEARANCE AS APPROVED BY THE ENGINEER.
- STUB PROTECTION SHOULD BE MEASURED OVER A 5'-0" CHORD AS PER ASHPO LIFT SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR TRUCKS AND TRAILERS. SEE MK. NO. SN-6 FOR DIAGRAM. EDITION, SEE MK. NO. SN-6A FOR DIAGRAM.

POST ELEVATION

POST ELEVATION
PAY LENGTH FOR POST + POST LENGTH + STUB LENGTH
SEE DETAILS ELSEWHERE ON PLANS
SPACE BETWEEN PLATES DUE TO WASHERS & BOLT KEEPER
CONCRETE FOOTING
TOP OF FOOTING FLUSH WITH GRADE
STUB POST
SIGN POST
SIGN FACE

SECTION A-A

SECTION A-A
NOTE: SEE DATA TABLE FOR DIMENSIONS
PROVIDE 1/2" DIA. MAX. HOLE IN THE INSIDE RADIUS OF THE STUB POST FOR GALVANIZE DRAINAGE.

BASE CONNECTION DATA TABLE

DIMENSIONS	BOLT & TABLE	T	W	C	D	E	F	G	H	J	K	L	M	N	P	S	U	V	R
3"	3/8" x 2 1/2"	3/8"	3/8"	1"	100% ± 2%	1/2"	3/8"	1/2"	1 3/4"	3/2"	1 3/4"	1 1/4"	1 1/4"	2 3/4"	6"	9"	2'	4 1/4"	9/4"
3 1/2"	3/8" x 3 1/2"	3/8"	3/8"	1 1/4"	100% ± 2%	1/2"	3/8"	1/2"	1 3/4"	3/2"	1 3/4"	1 1/4"	1 1/4"	2 3/4"	6"	9"	2'	4 1/4"	9/4"
5"	3/8" x 5"	3/8"	3/8"	1 3/4"	100% ± 2%	1/2"	3/8"	1/2"	1 3/4"	3/2"	1 3/4"	1 1/4"	1 1/4"	2 3/4"	6"	9"	2'	4 1/4"	9/4"

AS AN ALTERNATIVE THE POST LENGTH OF THE SIGN POST CAN BE MADE-UP USING A NOMINAL LENGTH OF GALVANIZED PIPE, A GALVANIZED SLIP BASE CASTING, GALVANIZED FLAT PLATES OR APPROVED EQUAL WITH ALL NECESSARY HARDWARE REQUIRED TO SECURE THEM TO THE SIGN POST. A GALVANIZED KEEPER PLATE AND A GALVANIZED FRICTION CAP. THE SLIP BASE CASTING SHALL HAVE 3-SCREWS TO BE USED TO SECURE THE SIGN POST TO THE SLIP BASE. THE MANUFACTURER SHALL PROVIDE SHOP DRAWINGS OF THE COMPLETE ASSEMBLY FOR WOOD APPROVAL.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**BREAKAWAY
SIGN SUPPORTS**

DATE: _____
ISSUE DATE: MAY 01, 2017

REVISION
DATE: _____
BY: _____

WORKING NUMBER
SN-05

SHEET NUMBER
6312

STATE MISS.	PROJECT NO.		
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DISTANCE REFERENCE SIGN MOUNTING ON OUTSIDE SHOULDER ALONG MAIN FACILITY

NOTE: SIGN MOUNTING ON LEFT LANE SHOULDER SHALL BE 90° OPPOSITE THE RIGHT LANE STATION. SIGN MOUNTING ON RIGHT LANE SHOULDER SHALL BE LOCATED WITHIN 500 FEET OF ITS TRUE LOCATION. IT SHALL BE OMITTED ENTIRELY.

EDGE OF PAVEMENT EDGE OF SHOULDER

DISTANCE REFERENCE SIGN MOUNTING ON OUTSIDE SHOULDER WITH MOUNTABLE CURB ALONG MAIN FACILITY OR RAMP

NOTE: SIGN MOUNTING ON LEFT LANE SHOULDER SHALL BE 90° OPPOSITE THE RIGHT LANE STATION. SIGN MOUNTING ON RIGHT LANE SHOULDER SHALL BE LOCATED WITHIN 500 FEET OF ITS TRUE LOCATION. IT SHALL BE OMITTED ENTIRELY.

EDGE OF PAVEMENT EDGE OF SHOULDER

DELINEATOR MOUNTING ON OUTSIDE SHOULDER ALONG MAIN FACILITY OR RAMP

NOTE: DELINEATORS ARE TO BE FASTENED TO U-SECTION POSTS WITH 1/4" DIA. HICK FASTENERS OR CHERRY RIVETS OF THE COLLAR TYPE OR OTHER APPROVED EQUAL.

DELINEATOR MOUNTING ON INTERCHANGE LOOPS WITH UNMOUNTABLE CURB ON INSIDE

NOTE: DELINEATORS ARE TO BE FASTENED TO U-SECTION POSTS WITH 1/4" DIA. HICK FASTENERS OR CHERRY RIVETS OF THE COLLAR TYPE OR OTHER APPROVED EQUAL.

DETAIL OF SINGLE WHITE OR SINGLE YELLOW DELINEATOR

DETAIL OF DOUBLE WHITE OR DOUBLE YELLOW DELINEATOR

REAR VIEW OF DELINEATOR ASSEMBLY

MOUNTING DETAIL

DETAIL OF TYPE 3 OBJECT MARKER

NOTE: TYPE 3 OBJECT MARKER SHALL BE REFLECTIVE SHEETING ON 8.000" THICK ALUMINUM SHEET OR 14 GAGE GALVANIZED SHEET STEEL. DELINEATOR, TYPE 3 OBJECT MARKER AND DISTANCE REFERENCE SIGN POSTS SHALL BE GALVANIZED STEEL. THE POSTS ARE TO BE FABRICATED BEFORE THE METAL IS GALVANIZED.

WEIGHT WITHOUT GROUND PLATES:
 A. DELINEATOR POST 7'-0" - 2.0 lb/ft TO 2.5 lb/ft
 B. DISTANCE REFERENCE SIGN POST 9'-0" - 2.5 lb/ft TO 3.0 lb/ft
 C. TYPE 3 OBJECT MARKER POSTS 12'-0" - 3.5 lb/ft TO 4.0 lb/ft
 & 12'-0" - 3.0 lb/ft TO 3.5 lb/ft

NOTE: DELINEATORS AND TYPE 3 OBJECT MARKERS SHALL INCLUDE UNIT PRICE OF DELINEATORS AND TYPE 3 OBJECT MARKERS SHALL INCLUDE COST OF POST, DISTANCE REFERENCE SIGN POST WILL BE PAID FOR PER FOOT. RADIUS IN BENDS OF POST CROSS SECTION NOT TO EXCEED 90° FOR HOT ROLLED SECTION.

GROUND PLATE NOT REQUIRED ON U-SECTION POST.

DETAIL OF TYPE 3 OBJECT MARKER INSTALLATION

REAR VIEW OF TYPE 3 OBJECT MARKER OR DISTANCE REFERENCE SIGN ASSEMBLY

NOTE: TYPE 3 OBJECT MARKER AND DISTANCE REFERENCE SIGN ARE TO BE FASTENED TO U-SECTION POSTS WITH 1/4" DIA. HICK FASTENERS OR CHERRY RIVETS OF THE COLLAR TYPE OR OTHER APPROVED EQUAL.

DETAIL OF TYPE 3 OBJECT MARKER INSTALLATION

DETAIL OF TYPE 3 OBJECT MARKER

NOTE: TYPE 3 OBJECT MARKER SHALL BE REFLECTIVE SHEETING ON 8.000" THICK ALUMINUM SHEET OR 14 GAGE GALVANIZED SHEET STEEL. DELINEATOR, TYPE 3 OBJECT MARKER AND DISTANCE REFERENCE SIGN POSTS SHALL BE GALVANIZED STEEL. THE POSTS ARE TO BE FABRICATED BEFORE THE METAL IS GALVANIZED.

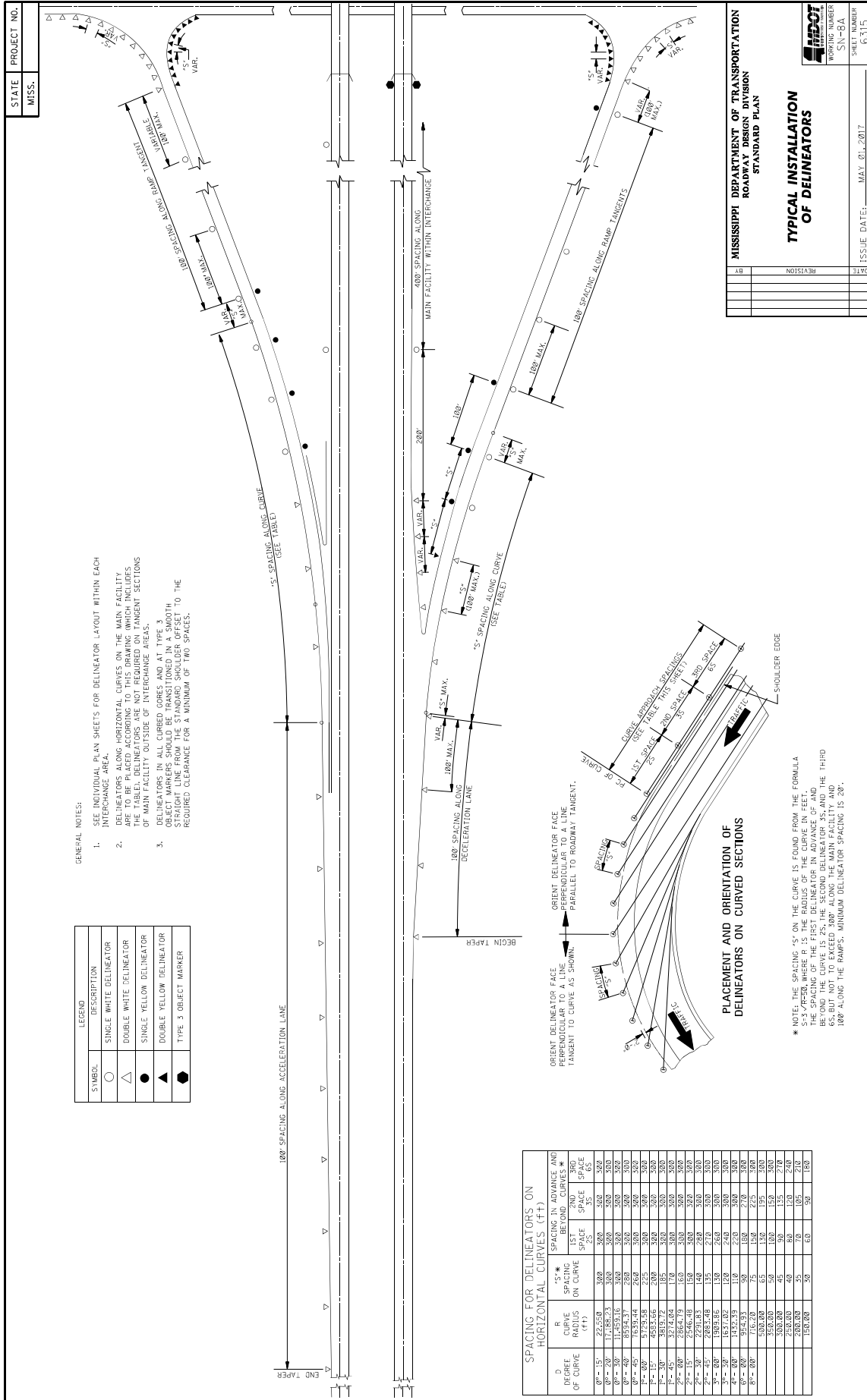
WEIGHT WITHOUT GROUND PLATES:
 A. DELINEATOR POST 7'-0" - 2.0 lb/ft TO 2.5 lb/ft
 B. DISTANCE REFERENCE SIGN POST 9'-0" - 2.5 lb/ft TO 3.0 lb/ft
 C. TYPE 3 OBJECT MARKER POSTS 12'-0" - 3.5 lb/ft TO 4.0 lb/ft
 & 12'-0" - 3.0 lb/ft TO 3.5 lb/ft

NOTE: DELINEATORS AND TYPE 3 OBJECT MARKERS SHALL INCLUDE UNIT PRICE OF DELINEATORS AND TYPE 3 OBJECT MARKERS SHALL INCLUDE COST OF POST, DISTANCE REFERENCE SIGN POST WILL BE PAID FOR PER FOOT. RADIUS IN BENDS OF POST CROSS SECTION NOT TO EXCEED 90° FOR HOT ROLLED SECTION.

GROUND PLATE NOT REQUIRED ON U-SECTION POST.

DETAIL OF TYPE 3 OBJECT MARKER INSTALLATION

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
ROADWAY DESIGN DIVISION	
STANDARD PLAN	
TYPICAL INSTALLATION AND DETAILS OF DELINEATORS AND DISTANCE REFERENCE SIGNS	
WORKING NUMBER SN-5	SHEET NUMBER 8214
ISSUE DATE: MAY 01, 2017	DATE
REVISION	DATE



STATE PROJECT NO.
MISS.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

TYPICAL INSTALLATION OF DELINEATORS

DATE: _____ REVISION: _____
BY: _____

ISSUE DATE: MAY 01, 2017
SHEET NUMBER: 6315
WORKING NUMBER: SN-8A

- GENERAL NOTES:
- SEE INDIVIDUAL PLAN SHEETS FOR DELINEATOR LAYOUT WITHIN EACH INTERCHANGE AREA.
 - DELINEATORS ALONG HORIZONTAL CURVES ON THE MAIN FACILITY ARE TO BE PLACED ACCORDING TO THIS DRAWING (WHICH INCLUDES THE TABLE FOR SPACING) AND THE TABLE FOR SPACING OF INTERCHANGE AREAS.
 - DELINEATORS IN ALL CURBED CORES AND AT TYPE 3 OBJECT MARKERS SHOULD BE TRANSITIONED IN A SMOOTH STRAIGHT LINE FROM THE STANDARD SHOULDER OFFSET TO THE REQUIRED CLEARANCE FOR A MINIMUM OF TWO SPACES.

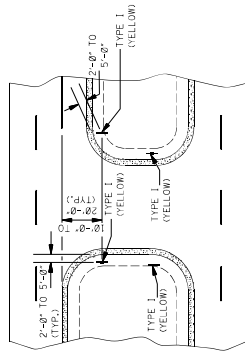
LEGEND	
SYMBOL	DESCRIPTION
○	SINGLE WHITE DELINEATOR
△	DOUBLE WHITE DELINEATOR
●	SINGLE YELLOW DELINEATOR
▲	DOUBLE YELLOW DELINEATOR
●	TYPE 3 OBJECT MARKER

SPACING FOR DELINEATORS ON HORIZONTAL CURVES (ft)

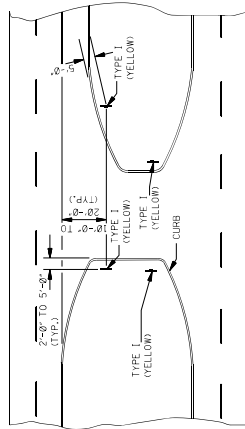
D DEGREE OF CURVE	R RADIUS (ft)	*S* SPACING ON CURVE		S BEYOND CURVES*	
		25'	35'	25'	35'
0.5°	11,225.91	300	300	300	300
1°	5,613.05	300	300	300	300
2°	2,806.51	300	300	300	300
3°	1,871.01	300	300	300	300
4°	1,392.76	300	300	300	300
5°	1,122.08	300	300	300	300
6°	935.41	300	300	300	300
7°	795.70	300	300	300	300
8°	688.06	300	300	300	300
9°	604.62	300	300	300	300
10°	537.78	300	300	300	300
12°	412.67	300	300	300	300
15°	280.92	300	300	300	300
20°	157.76	300	300	300	300
25°	87.16	300	300	300	300
30°	46.18	300	300	300	300
35°	26.85	300	300	300	300
40°	15.84	300	300	300	300
45°	9.51	300	300	300	300
50°	5.40	300	300	300	300
55°	3.11	300	300	300	300
60°	1.73	300	300	300	300
65°	1.00	300	300	300	300
70°	0.57	300	300	300	300
75°	0.32	300	300	300	300
80°	0.19	300	300	300	300
85°	0.11	300	300	300	300
90°	0.06	300	300	300	300

* NOTE: THE SPACING "S" ON THE CURVE IS FOUND FROM THE FORMULA
 $S = \sqrt{R \cdot \tan^2(\frac{D}{2})}$
 WHERE R IS THE RADIUS OF THE CURVE IN FEET AND D IS THE DEGREE OF THE CURVE.
 BEYOND THE CURVE IS 25', THE SECOND DELINEATOR IN ADVANCE OF AND
 65', BUT NOT TO EXCEED 300' ALONG THE MAIN FACILITY, AND
 180' ALONG THE RAMPS. MINIMUM DELINEATOR SPACING IS 20'.

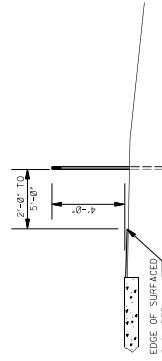
STATE	PROJECT NO.
MISS.	



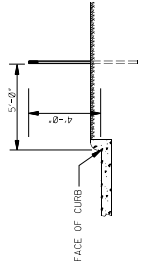
TYPICAL DELINEATION AT A CROSSOVER WITH USABLE SHOULDERS AND A MEDIAN WIDTH OVER 42'-0"



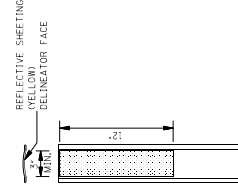
TYPICAL DELINEATION AT A CURBED CROSSOVER WITH A MEDIAN WIDTH OVER 42'-0"



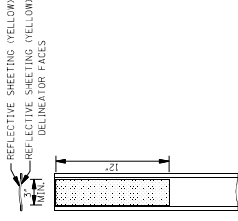
DELINEATOR MOUNTING ON CROSSOVER WITH USABLE SHOULDER



DELINEATOR MOUNTING ON CURBED CROSSOVER

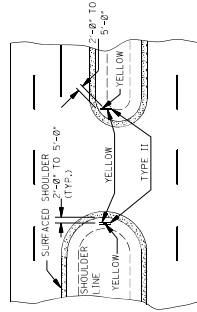


DETAIL OF TYPE I FLEXIBLE POST DELINEATOR

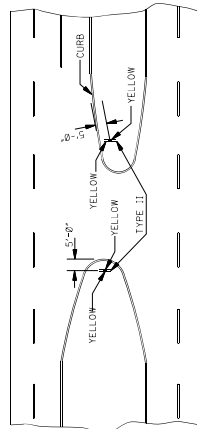


DETAIL OF TYPE II FLEXIBLE POST DELINEATOR

NOTE: CARBONITE'S UNPAIRED DELINEATOR POSTS ARE SHOWN. OTHER FLEXIBLE POSTS, CARBONITE'S BEING APPROVED BY THE MISSISSIPPI DEPARTMENT'S APPROVED SOURCE OF MATERIALS, MAY BE FURNISHED.



TYPICAL DELINEATION AT A CROSSOVER WITH USABLE SHOULDERS AND A MEDIAN WIDTH OF 42'-0" OR LESS



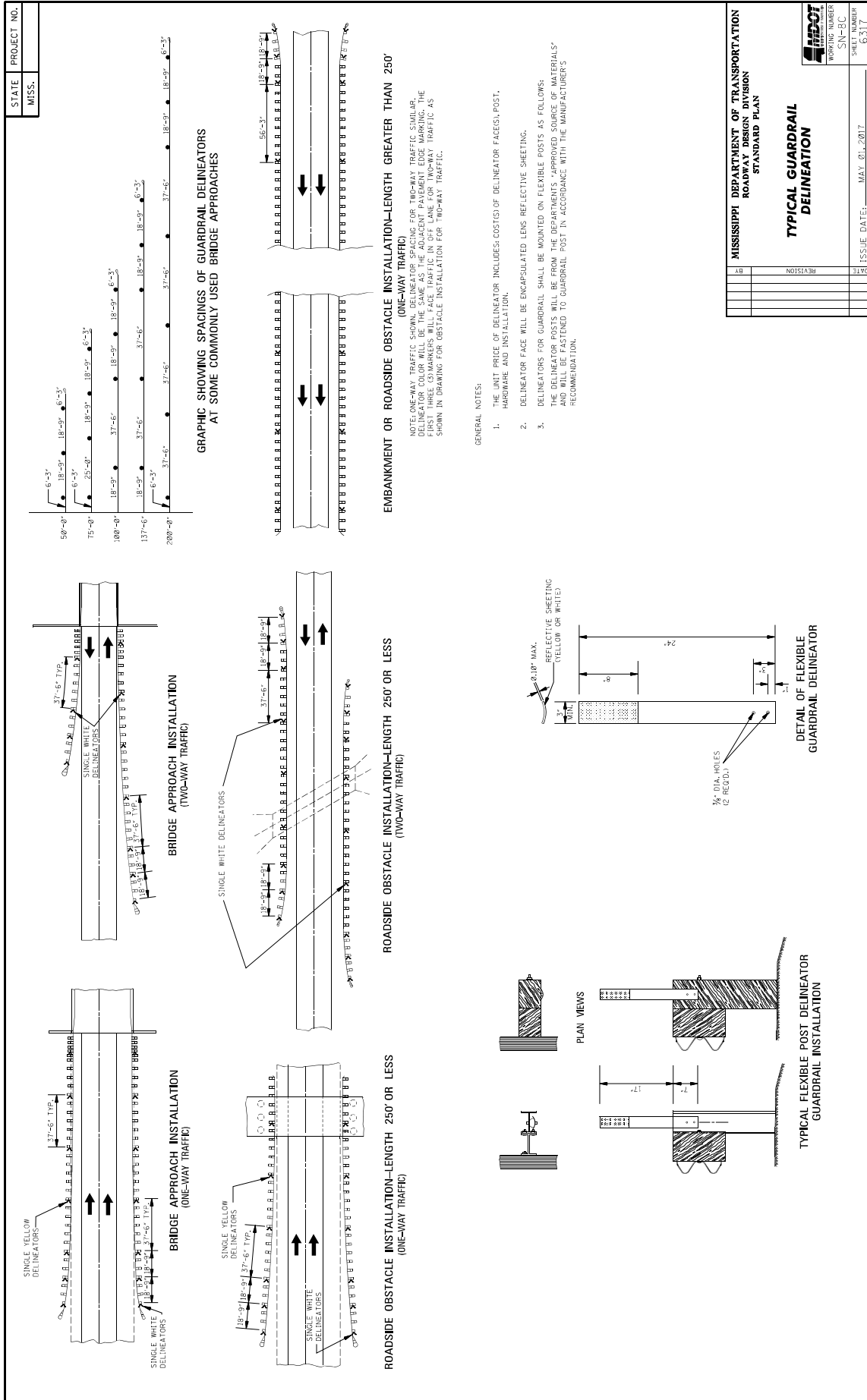
TYPICAL DELINEATION AT A CURBED CROSSOVER WITH A MEDIAN WIDTH OF 42'-0" OR LESS

NOTE: PLACE DELINEATORS NO MORE THAN 20'-0" FROM EDGE OF TRAVEL LINES EDGES.

- GENERAL NOTES:
- THE UNIT PRICE OF DELINEATORS INCLUDES COSTS OF DELINEATOR FACES, POST, HARDWARE AND INSTALLATION.
 - DELINEATOR FACE WILL BE ENCAPSULATED LENS REFLECTIVE SHEETING.
 - POST REQUIRING THE INSTALLATION OF A BASE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
 - THE COLOR OF DELINEATORS SHALL BE THE COLOR OF THE ADJACENT EDGE LINE PER MUTCD SECTION 3F.02.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
BY	REVISION
DATE	ISSUE DATE: MAY 01, 2017
	SHEET NUMBER SN-85
	SHEET NUMBER 8316

TYPICAL CROSSOVER DELINEATION

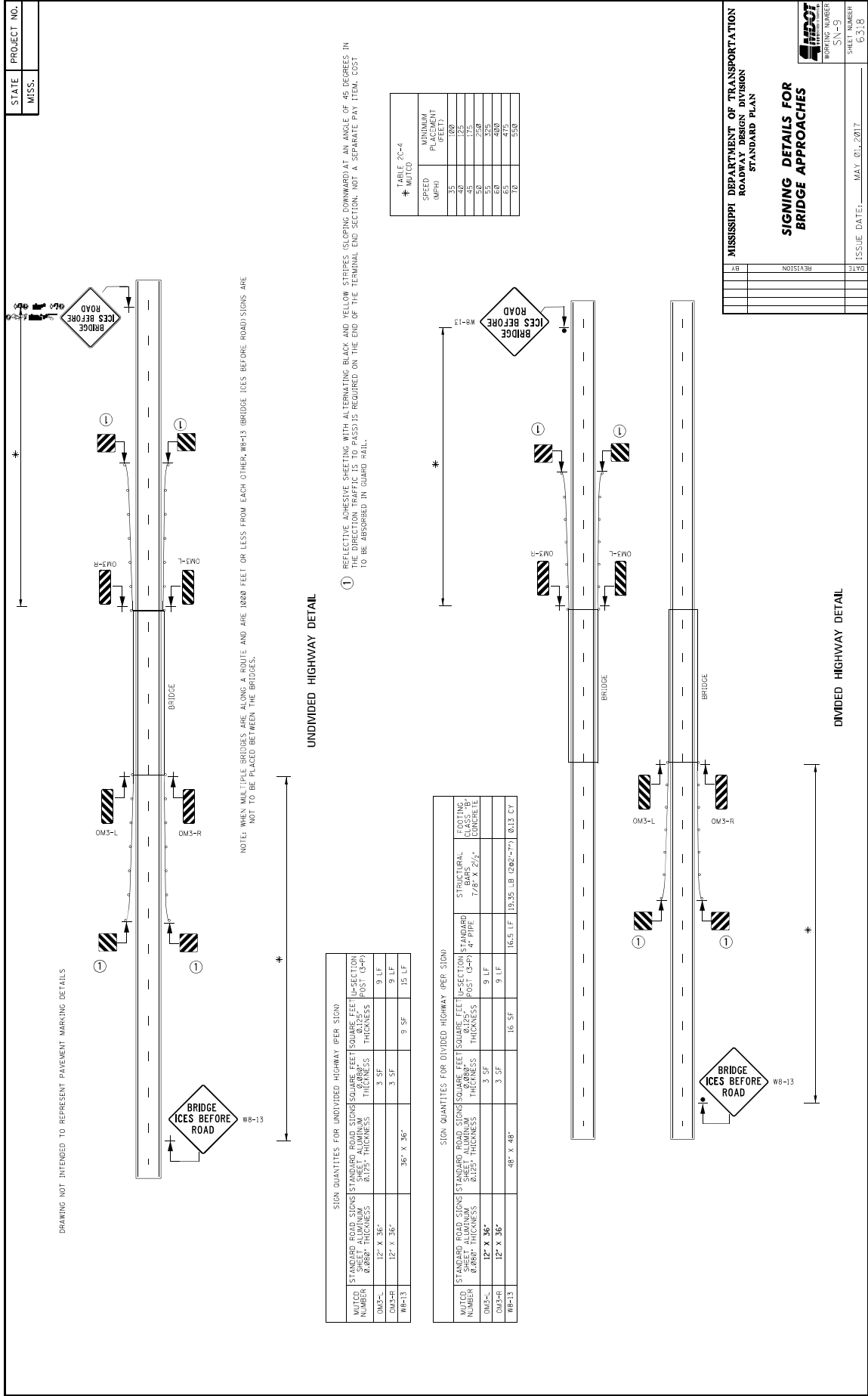


GENERAL NOTES:

1. THE UNIT PRICE OF DELINEATOR (INCLUDES COSTS) OF DELINEATOR FACE(S), POST, HARDWARE AND INSTALLATION.
2. DELINEATOR FACE WILL BE ENCAPSULATED LENS REFLECTIVE SHEETING.
3. DELINEATORS FOR GUARDRAIL SHALL BE MOUNTED ON FLEXIBLE POSTS AS FOLLOWS:
THE DELINEATOR POSTS WILL BE FROM THE DEPARTMENT'S "APPROVED SOURCE OF MATERIALS" AND WILL BE FASTENED TO GUARDRAIL POST IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.

NOTE: ONE-WAY TRAFFIC SHOWING DELINEATOR SPACING FOR TWO-WAY TRAFFIC SIMILAR. DELINEATOR COLOR WILL BE THE SAME AS THE ADJACENT PAVEMENT EDGE MARKING. THE FIRST THREE DIMENSIONERS WILL FACE TRAFFIC IN OFF LANE FOR TWO-WAY TRAFFIC AS SHOWN IN DRAWING FOR OBSTACLE INSTALLATION FOR TWO-WAY TRAFFIC.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
ROADWAY DESIGN DIVISION	
STANDARD PLAN	
TYPICAL GUARDRAIL DELINEATION	
DATE	SHEET NUMBER
	SN-8C
	8311
	ISSUE DATE: MAY 01, 2017



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 – NOTICE TO BIDDERS NO. 3599

CODE: (SP)

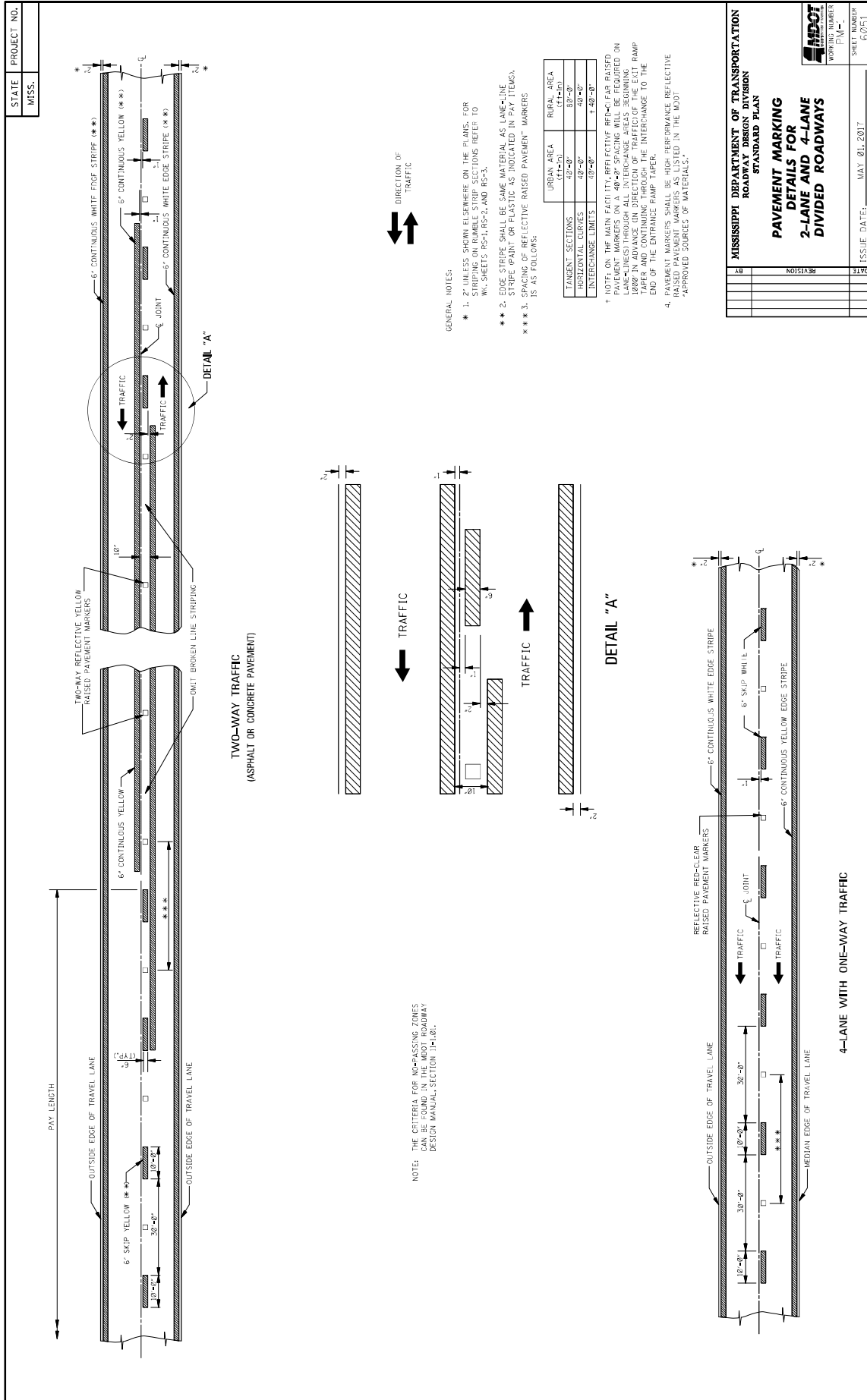
DATE: 08/11/2021

SUBJECT: Standard Drawings

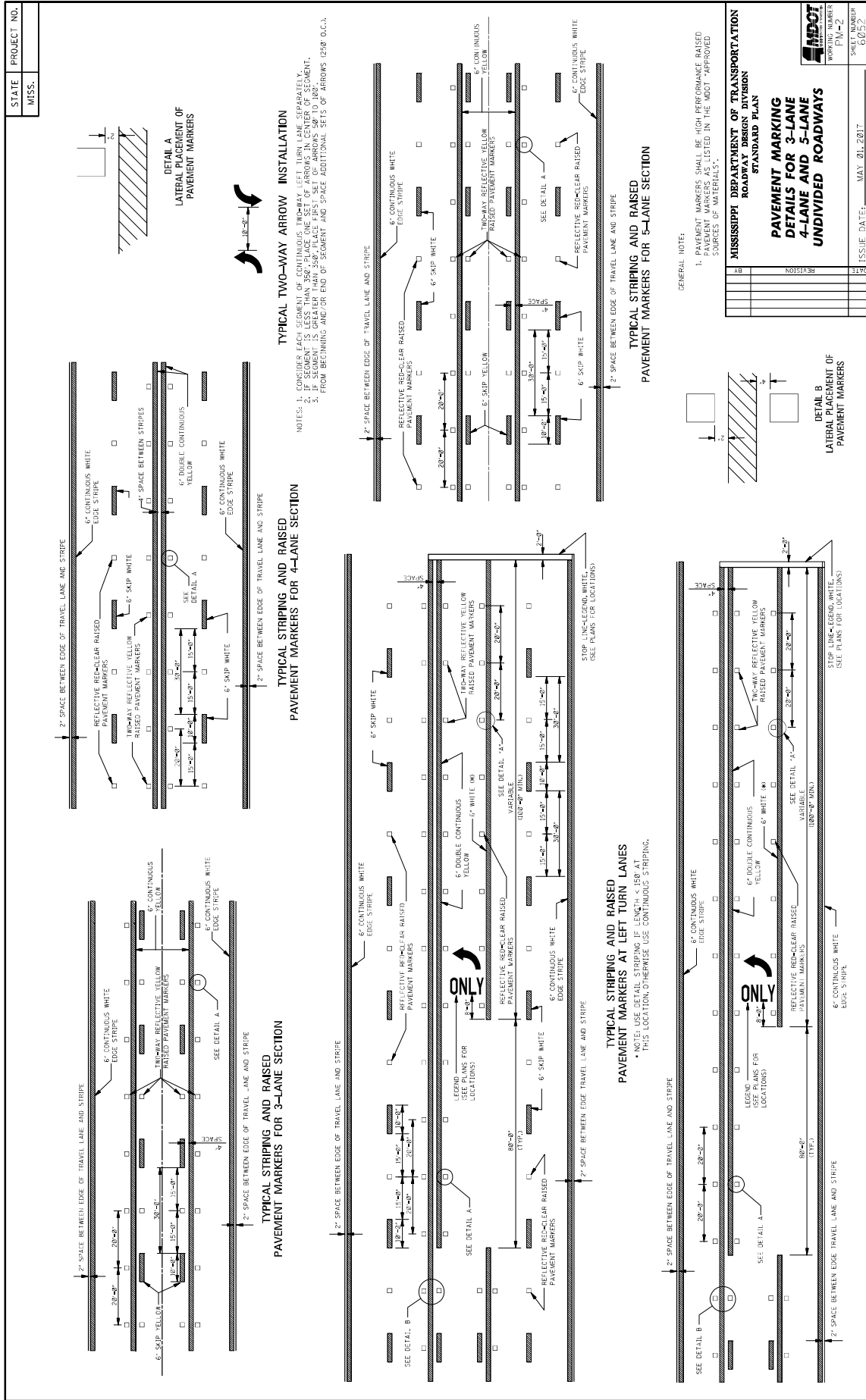
Standard Drawings attached hereto shall govern appropriate items of required work.

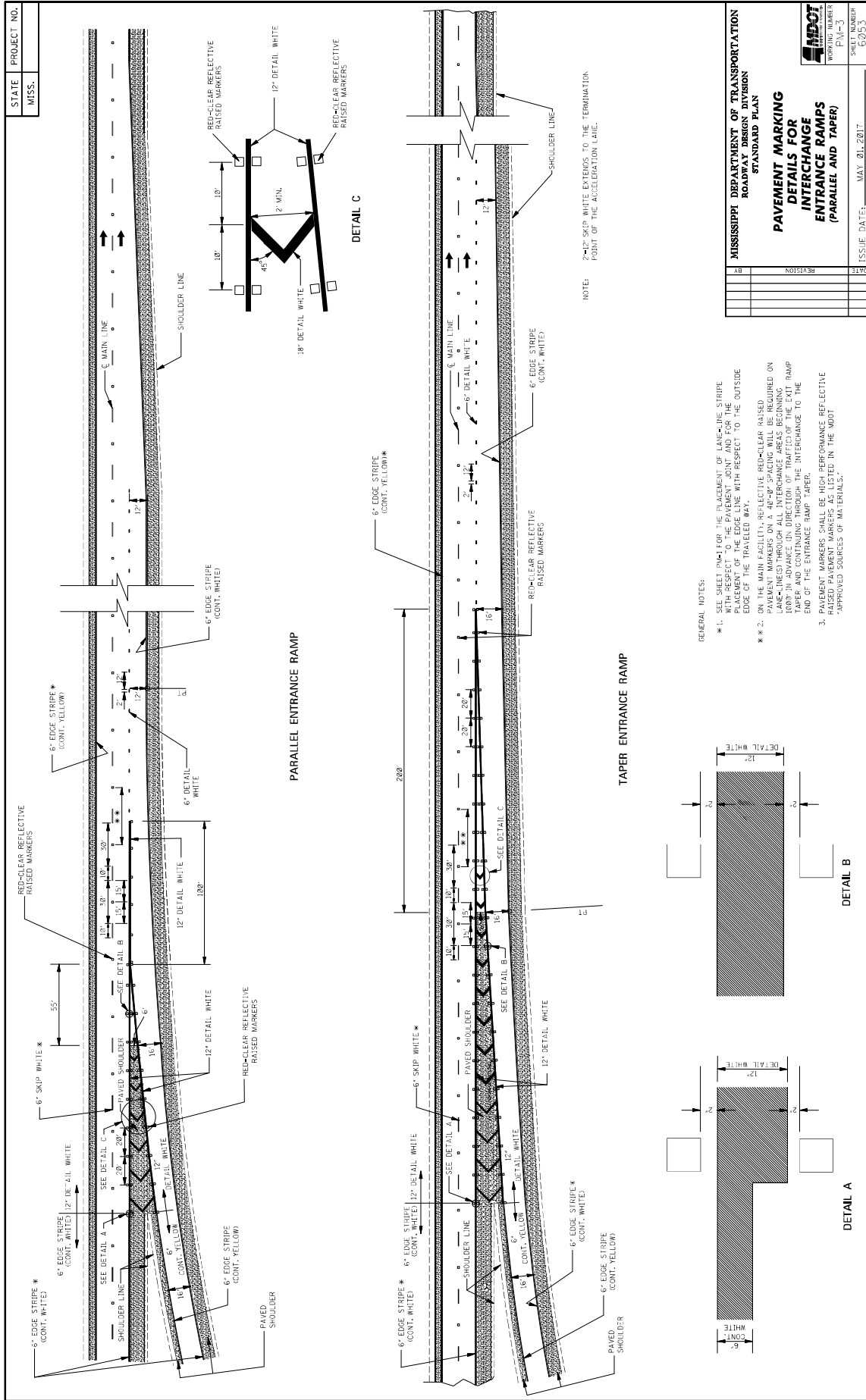
Larger copies of Standard Drawings may be purchased from:

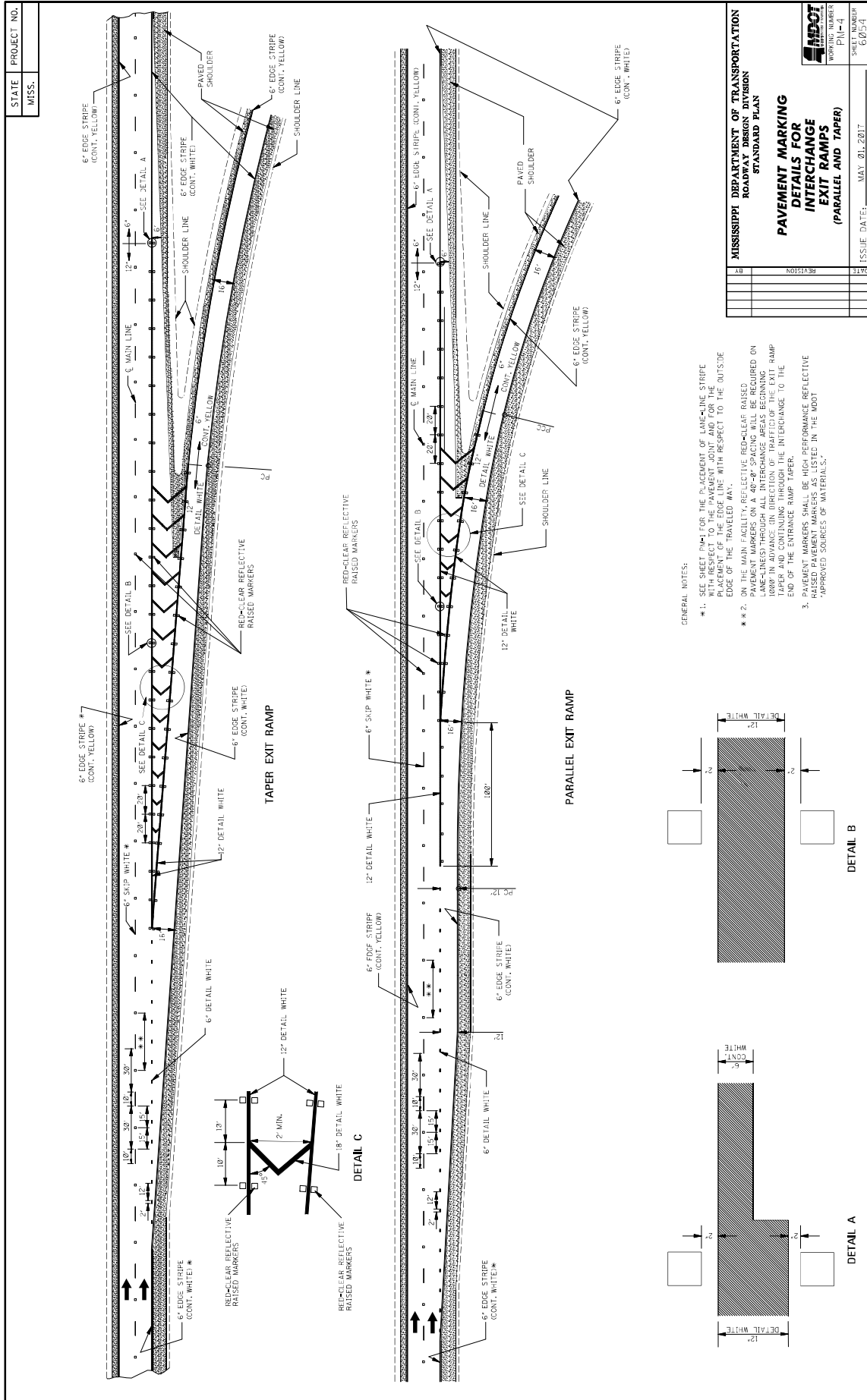
MDOT Plans Print Shop
MDOT Shop Complex, Building C, Room 114
2567 North West Street
P.O. Box 1850
Jackson, MS 39215-1850
Telephone: (601) 359-7460
or FAX: (601) 359-7461
or e-mail: plans@mdot.state.ms.us



MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
ROADWAY DESIGN DIVISION	
STANDARD PLAN	
PAVEMENT MARKING	
2-LANE AND 4-LANE	
DIVIDED ROADWAYS	
DATE	ISSUE DATE: MAY 01, 2017
BY	SHEET NUMBER 6001
REVISION	WORKING NUMBER P.M.-







STATE MISS.	PROJECT NO.										
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8'-4"

6'-4"

8'-4"

6'-4"

8'-4"

6'-4"

8'-4"

7'-0"

8'-4"

6'-4"

8'-4"

7'-0"

8'-4"

9'-8"

8'-4"

6'-4"

8'-4"

6'-4"

8'-4"

6'-4"

8'-4"

7'-0"

8'-4"

6'-4"

8'-4"

7'-0"

8'-4"

9'-8"

GENERAL NOTES:

- TWO HORIZONTAL GAPS (USED BY TEMPLATE CONNECTIONS) OF 1/4" SHALL EXTEND THROUGH ALL WIDTH OF LETTERS.
- FOR OTHER DETAILS, SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- PAY QUANTITIES FOR PAVEMENT MARKING LEGENDS ARE AS FOLLOWS:

LEGEND	AREA (sq ft)
STOP	24.6
RIGHT	28.6
LEFT	19.5
YIELD	27.2
AHEAD	32.4
YIELD	26.8
EXIT	18.5
SIGNAL	32.5
SCHOOL	35.2

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**PAVEMENT MARKING
LEGEND DETAILS**

ISSUE DATE: MAY 01, 2017

WORKING NUMBER: PM-5
SHEET NUMBER: 6055

STATE MISS.	PROJECT NO.		
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ONLY

TURN ARROW

THRU ARROW

LANE-REDUCTION ARROW

COMBINATION ARROW

1-WAY ARROW

YIELD LINE

TRAFFIC

GENERAL NOTES:

- TWO HORIZONTAL GAPS CAUSED BY TEMPLATE CONNECTIONS OF 1/8" OR LESS AND EXTENDING THE FULL WIDTH ARE PERMITTED IN EACH LETTER.
- FOR OTHER DETAILS, SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- DIMENSIONS OF THE YIELD LINE MAY VARY WITH APPROVAL OF THE ENGINEER. SEE MUTCD, LATEST EDITION, FOR ALLOWABLE DIMENSIONS.
- PAY QUANTITIES FOR PAVEMENT MARKING LEGENDS ARE AS FOLLOWS:

PAY QUANTITIES	
LEGEND/SYMBOL	AREA (ft ²)
ONLY	22.0
TURN ARROW	16.4
THRU ARROW	12.3
COMB. ARROW	27.5
LANE REDUCTION ARROW	40.0

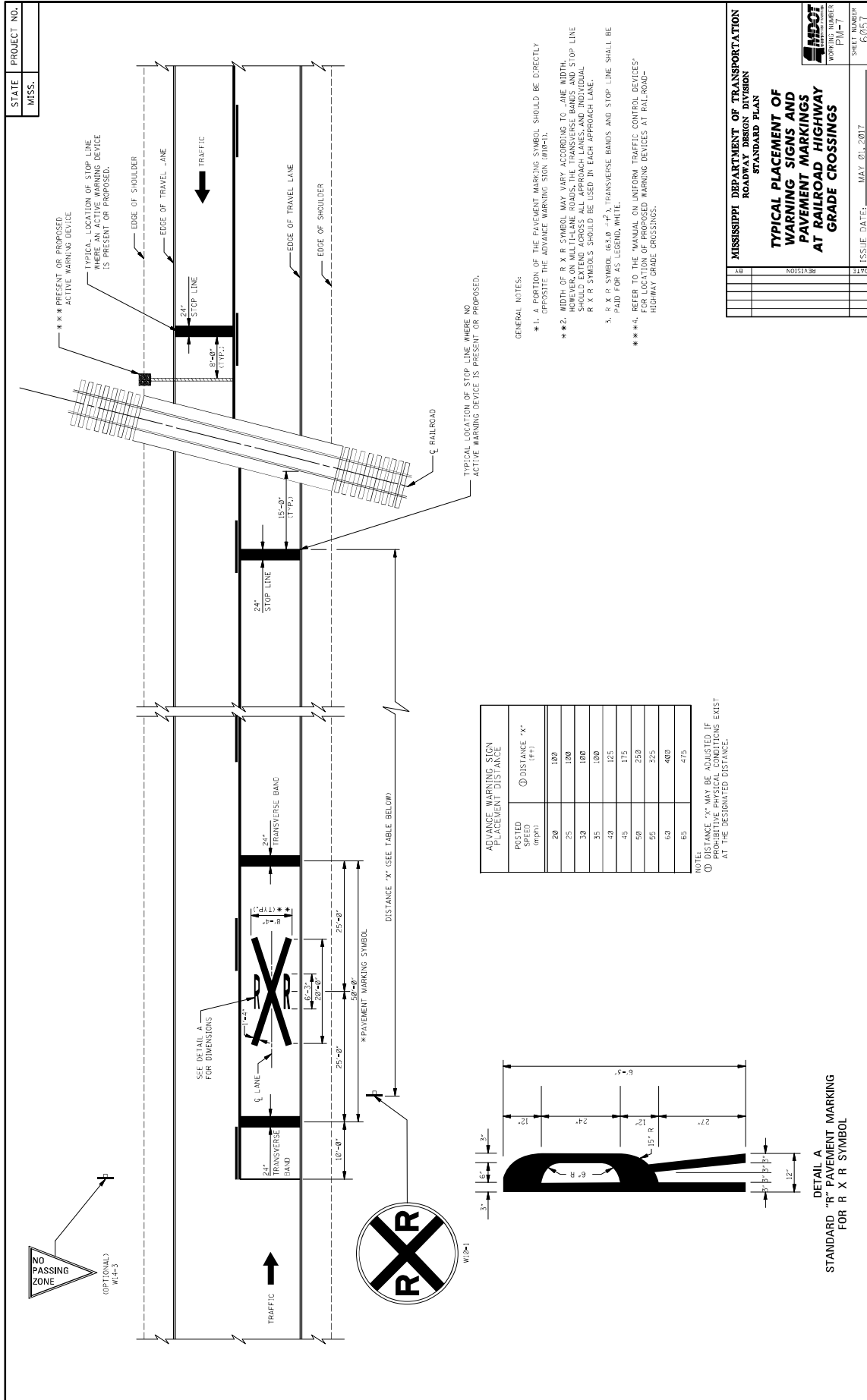
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**PAVEMENT MARKING
LEGEND DETAILS**

DATE	BY	REVISION	DATE	BY	REVISION	DATE	BY	REVISION

ISSUE DATE: MAY 01, 2017

SHEET NUMBER: 60/56



MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**TYPICAL PLACEMENT OF
WARNING SIGNS AND
PAVEMENT MARKINGS
AT RAILROAD HIGHWAY
GRADE CROSSINGS**

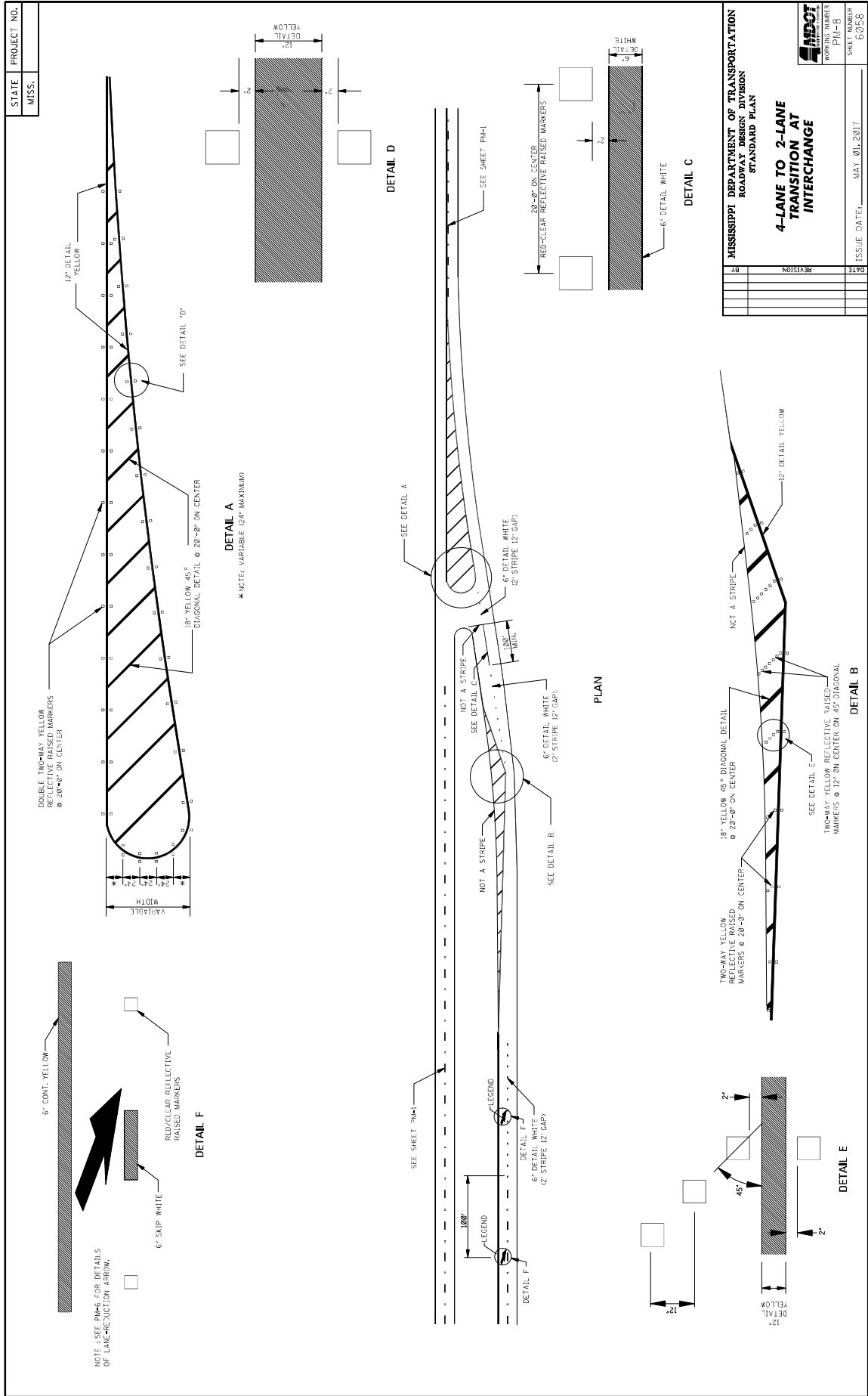
DATE: _____

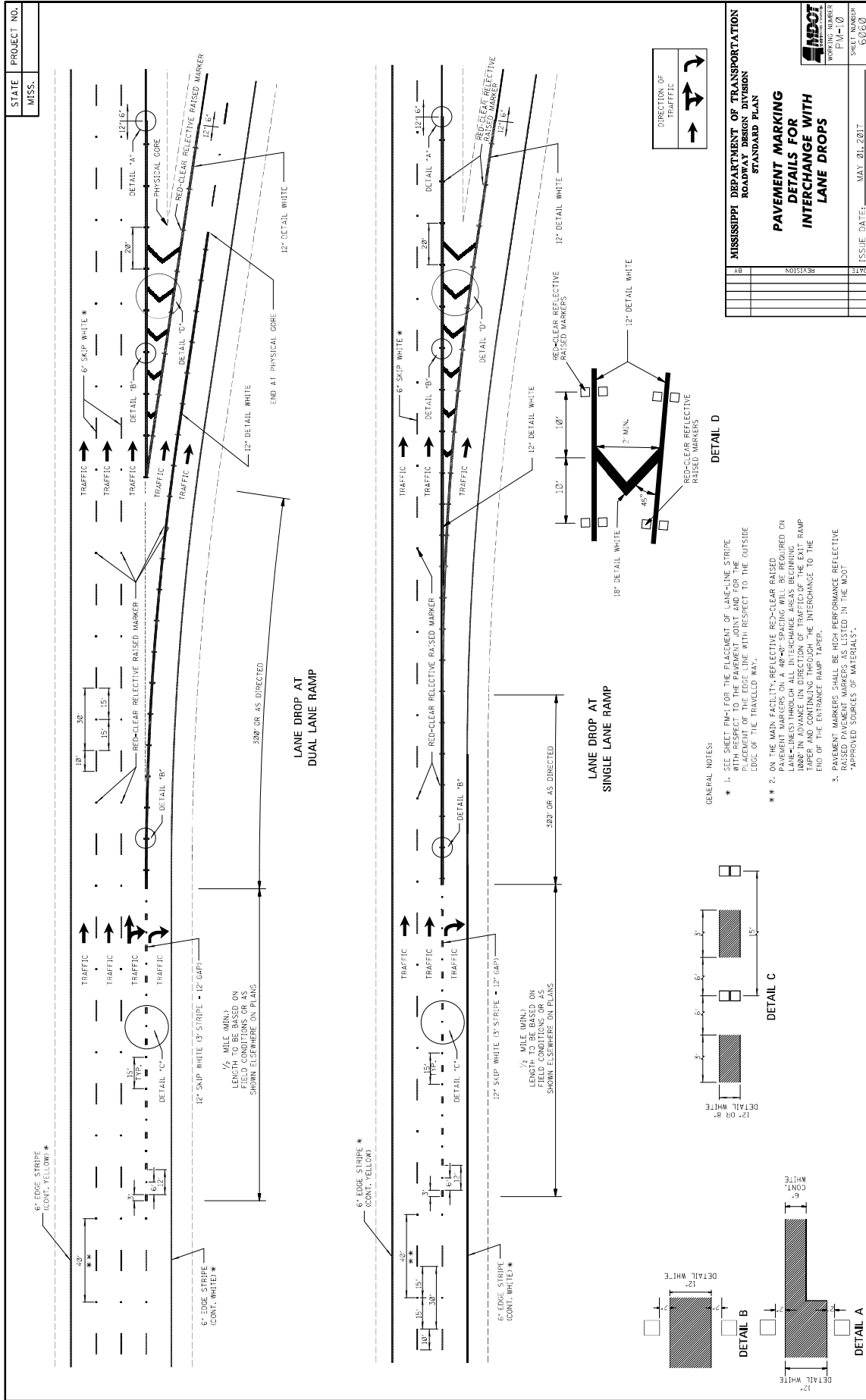
REVISION: _____

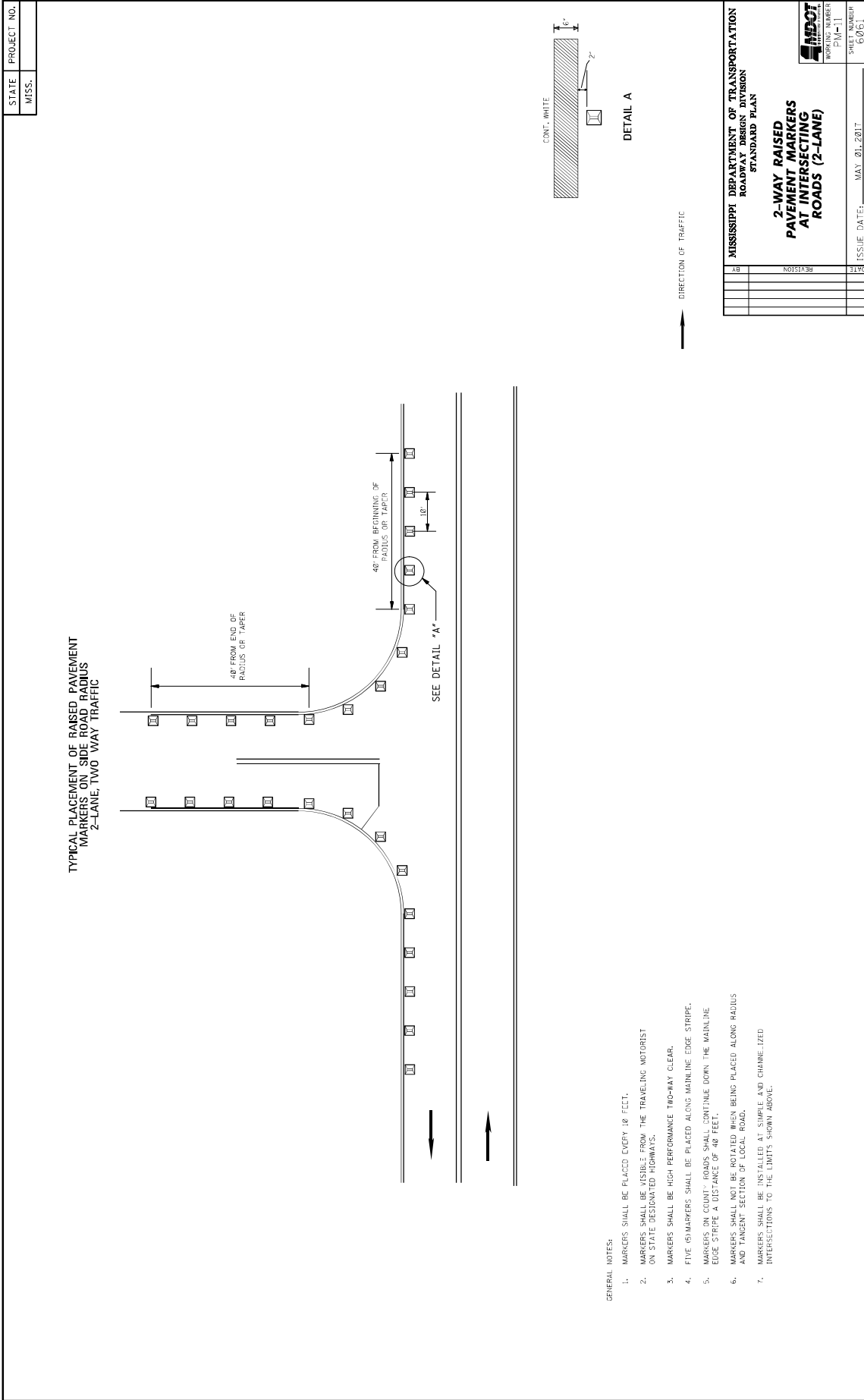
ISSUE DATE: MAY 01, 2017

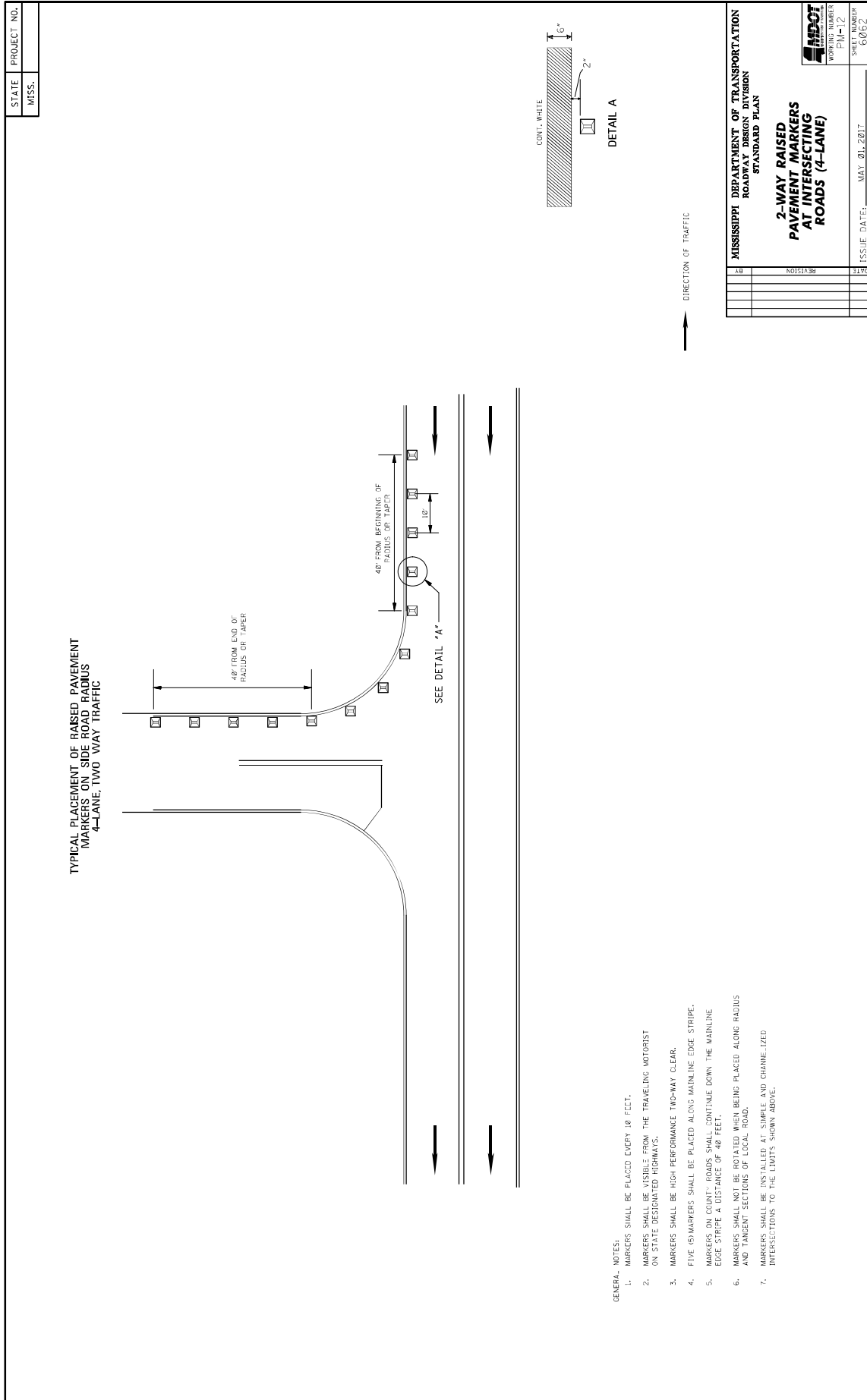
WORKING NUMBER: P10-1

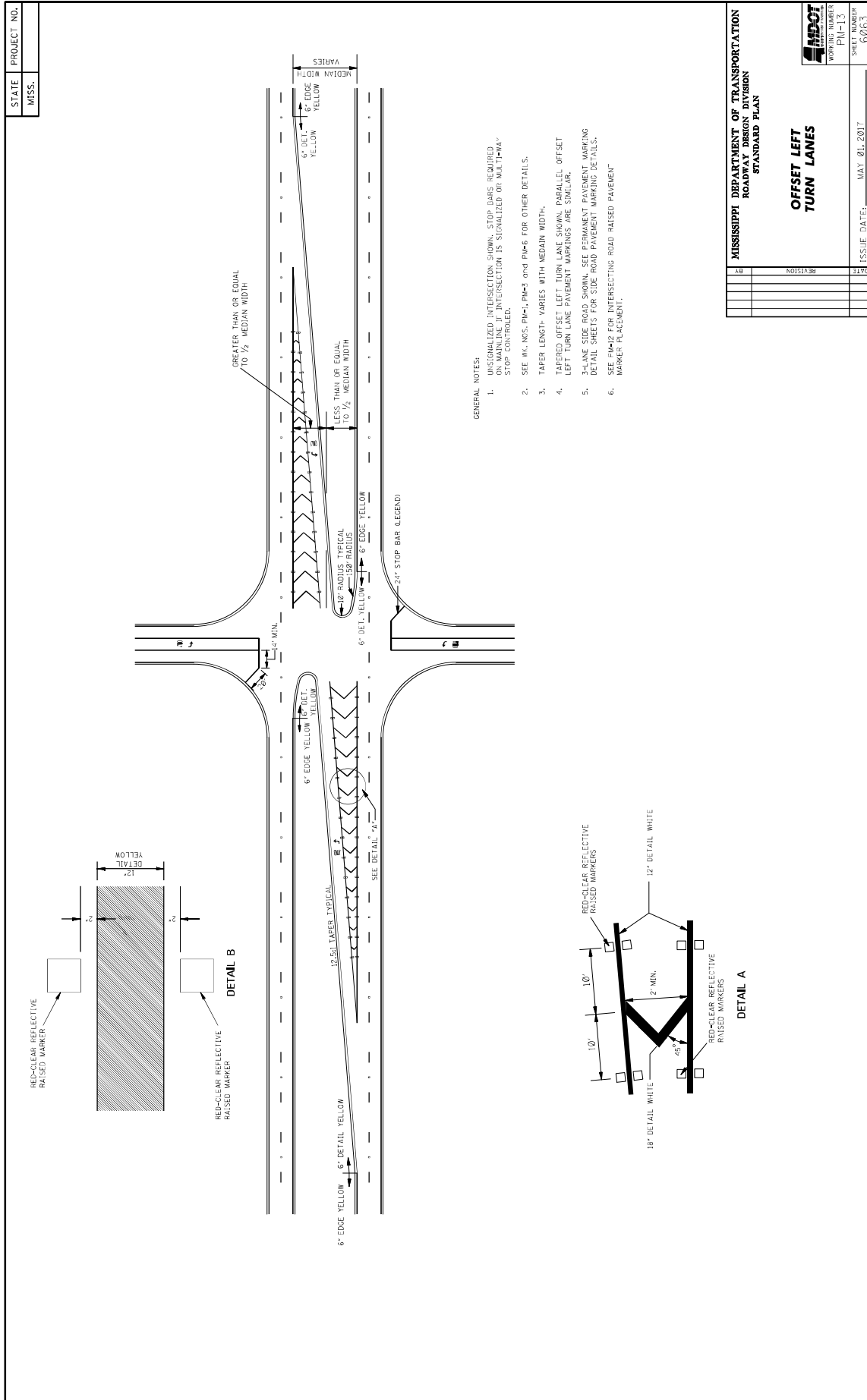
SHEET NUMBER: 60511



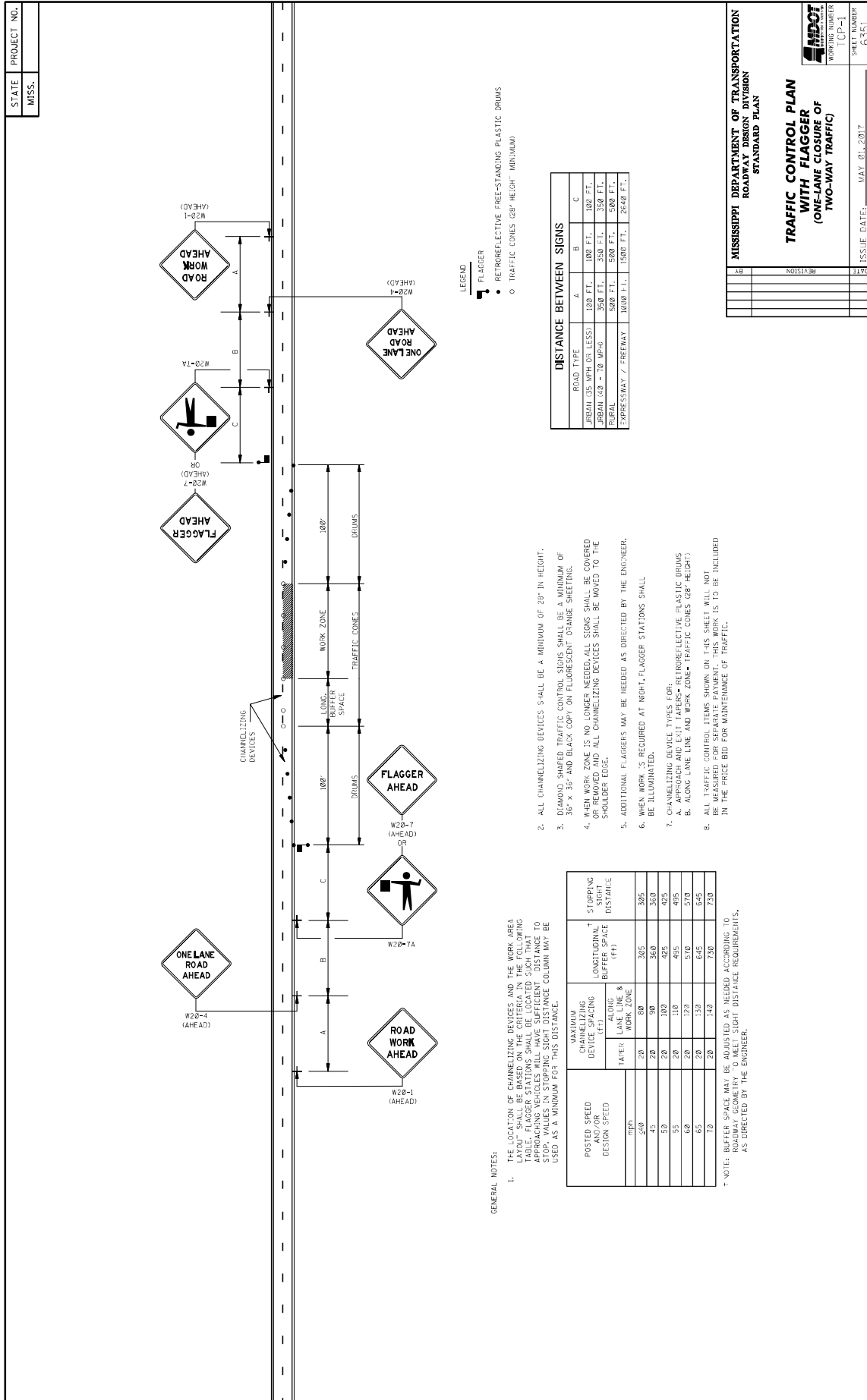


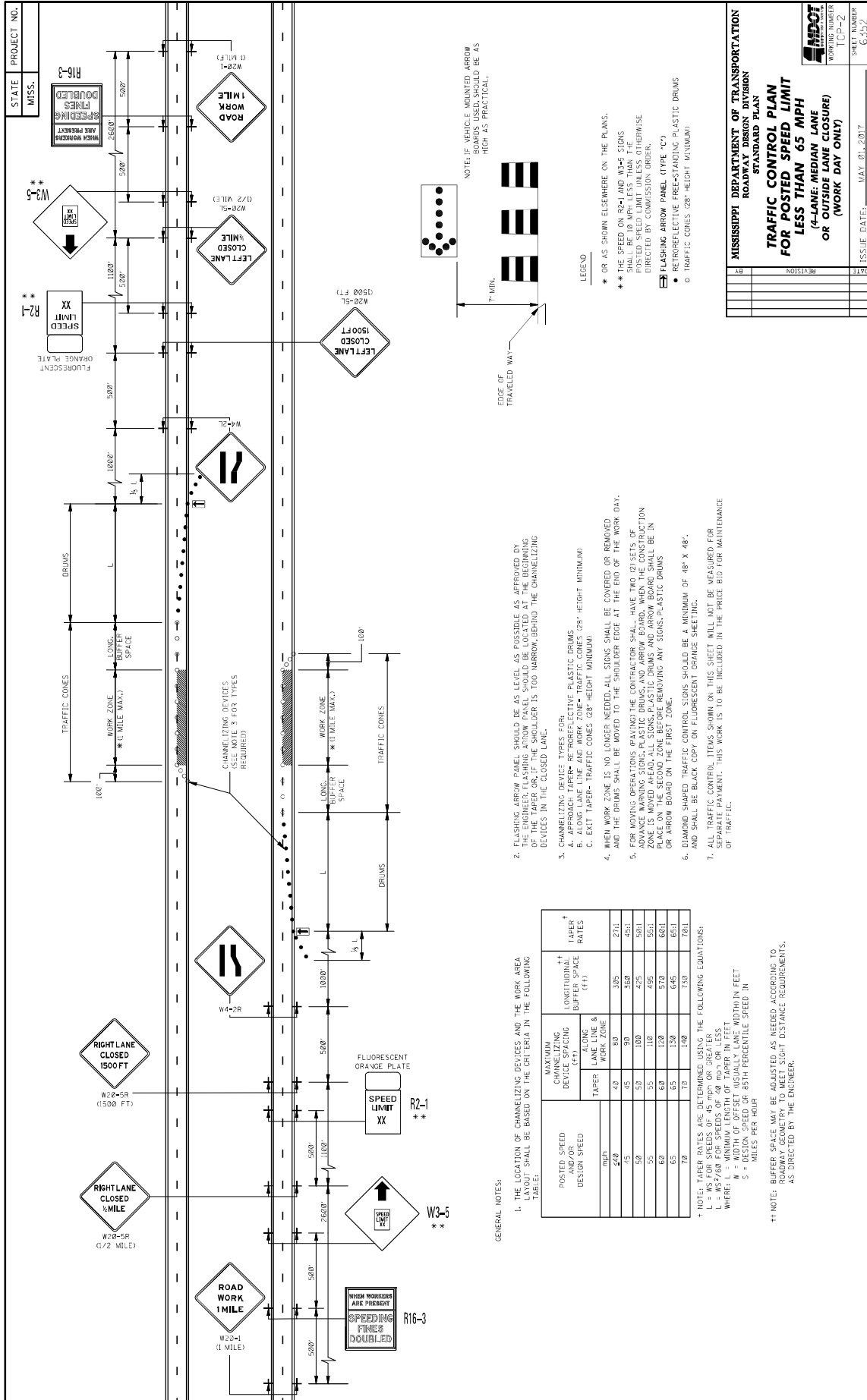


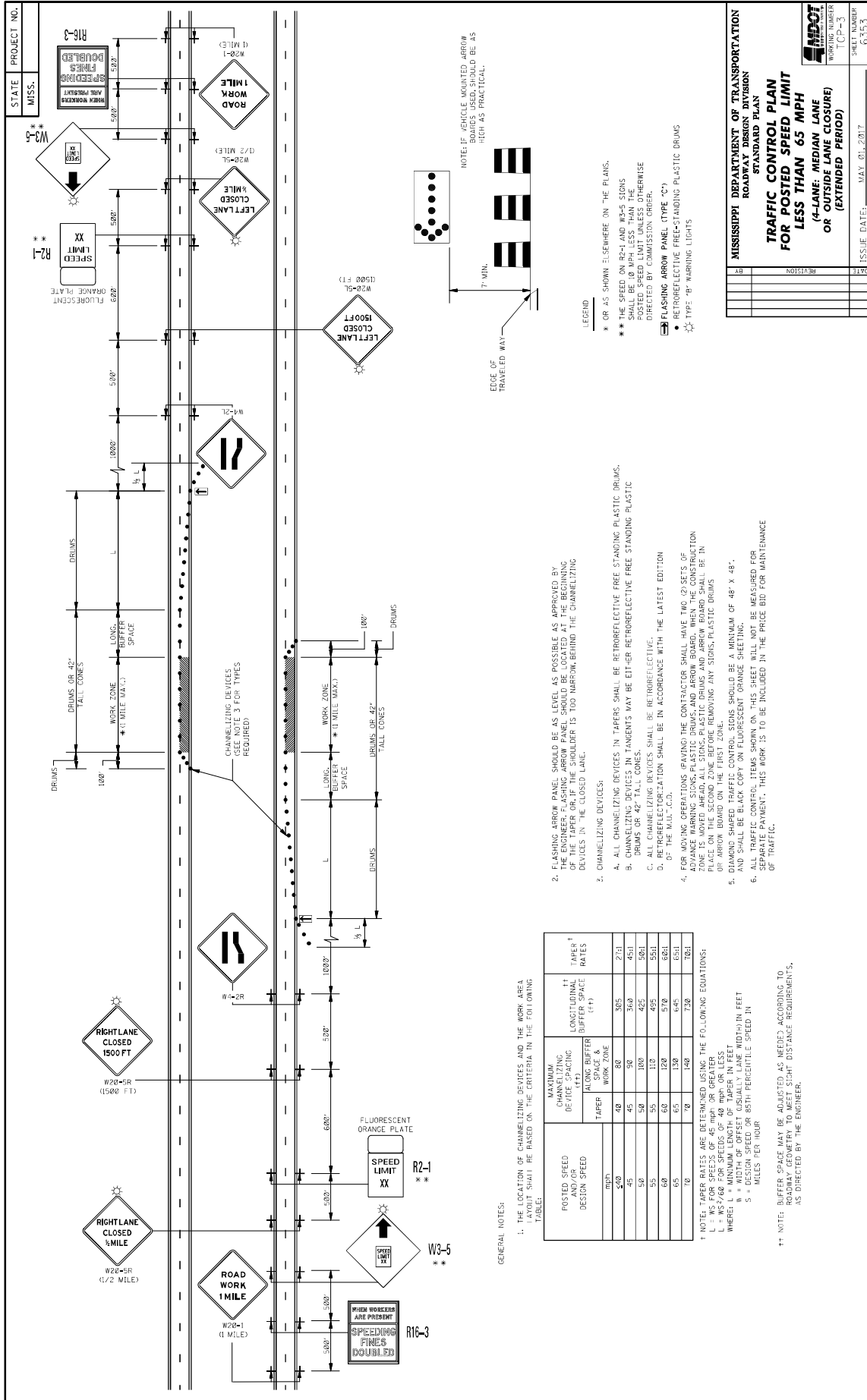


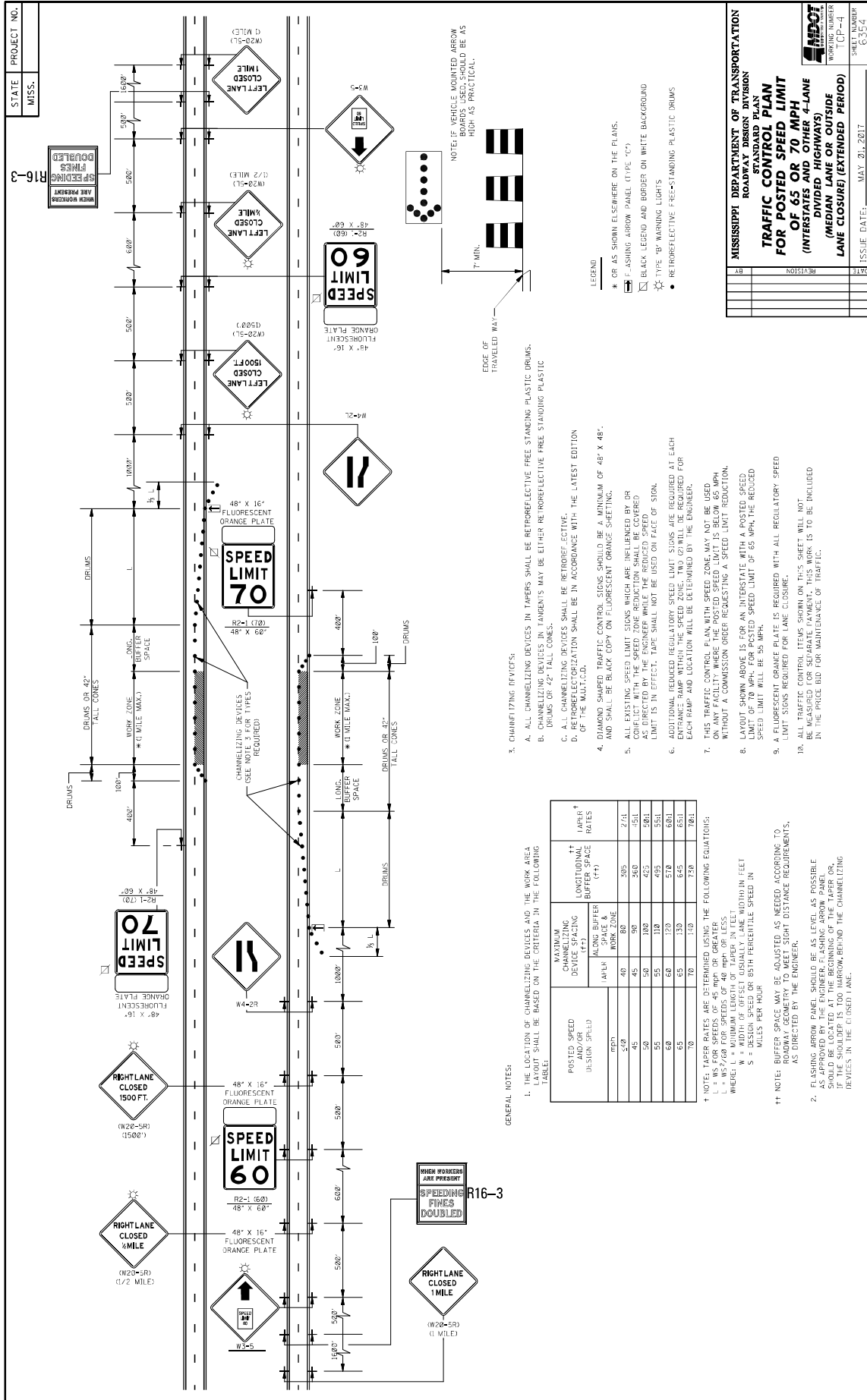


MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
ROADWAY DESIGN DIVISION	
STANDARD PLAN	
OFFSET LEFT TURN LANES	
DATE	ISSUE DATE: MAY 01, 2017
BY	SHEET NUMBER 0263
REVISION	PROJECT NUMBER PM-13









STATE PROJECT NO.
MISS.

R16-3

WHEN WORKERS ARE WORKING SPEEDING FINES DOUBLED

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
TRAFFIC CONTROL PLAN
FOR POSTED SPEED LIMIT
OF 65 OR 70 MPH
(INTERSTATES AND OTHER 4-LANE
DIVIDED HIGHWAYS)
(MEDIUM LANE OR OUTSIDE
LANE CLOSED/EXTENDED PERIOD)

ISSUE DATE: MAY 20, 2012

REV. NO. DATE

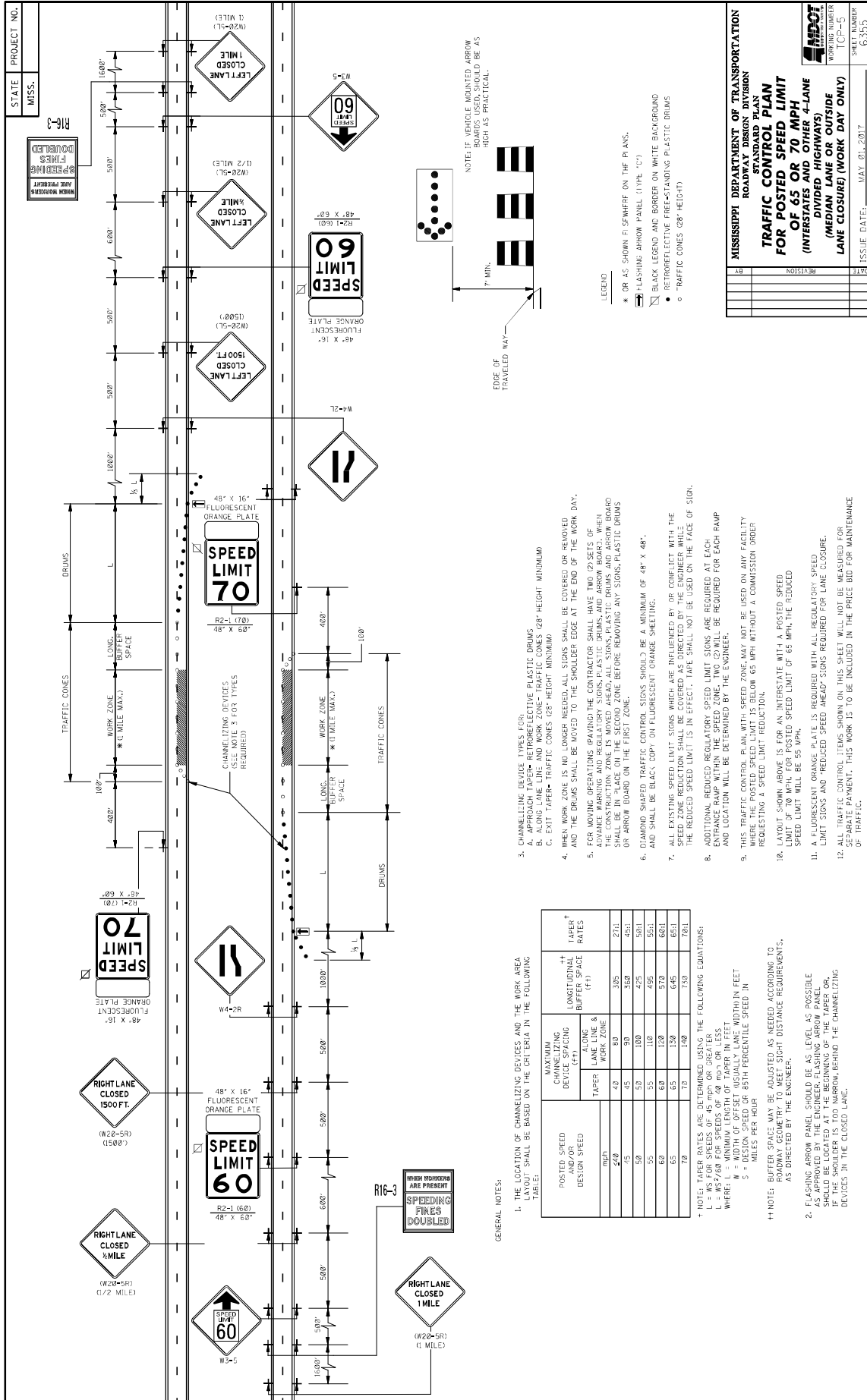
REVISION

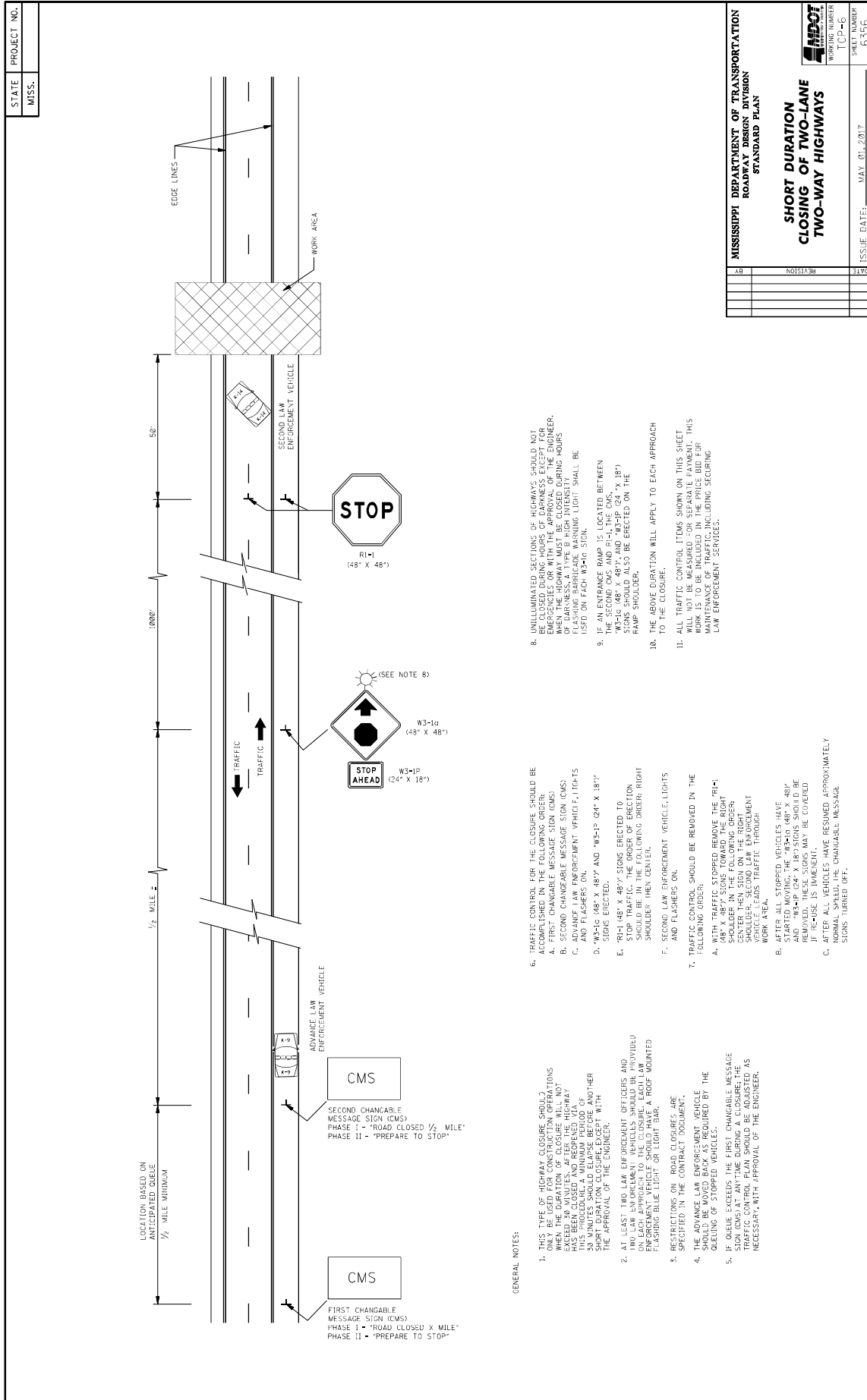
DATE

WORKING NUMBER
CP-44

SHEET NUMBER
6554

- GENERAL NOTES:
1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LENGTH SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:
- | POSTED SPEED AND/OR DESIGN SPEED (MPH) | MAXIMUM CHANNELIZING DEVICE SPACING ALONG BUFFER SPACE & WORK ZONE (FT) | | LONGITUDINAL BUFFER SPACE (FT) | TAPER RATES (LAPL) [†] | TAPER RATES (LAPL) ^{††} |
|--|---|-------|--------------------------------|---------------------------------|----------------------------------|
| | 1/4 L | 1/2 L | | | |
| 50 | 40 | 80 | 305 | 2/1 | 2/1 |
| 45 | 45 | 90 | 360 | 3/1 | 3/1 |
| 40 | 50 | 100 | 420 | 4/1 | 4/1 |
| 35 | 60 | 120 | 495 | 5/1 | 5/1 |
| 30 | 75 | 150 | 590 | 6/1 | 6/1 |
| 25 | 100 | 200 | 780 | 8/1 | 8/1 |
| 20 | 150 | 300 | 1170 | 12/1 | 12/1 |
- † NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
L = WS²/60 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
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 THE END OF THE TAPER. 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. RETROREFLECTIVIZATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD-6A.
 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. THE EXISTING SPEED LIMIT IS IN EFFECT. TAPE SHALL NOT BE USED ON FACE OF SIGN.
 6. ADDITIONAL REQUIRED REGULATORY SPEED LIMIT SIGNS ARE REQUIRED AT EACH ENTRANCE RAMP AND LOCALITY 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 PASTED 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 IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.
- LEGEND
- * OR AS SHOWN ELSEWHERE ON THE PLANS.
 - † FLASHING ARROW PANEL (TYPE "C")
 - BLACK LEGGED AND BORDER ON WHITE BACKGROUND
 - ☆ TYPE "B" MARKING LIGHTS
 - RETROREFLECTIVE FREE-STANDING PLASTIC DRUMS
- NOTE: IF VEHICLE MOUNTED ARROW SHOULD BE AS HIGH AS PRACTICAL.

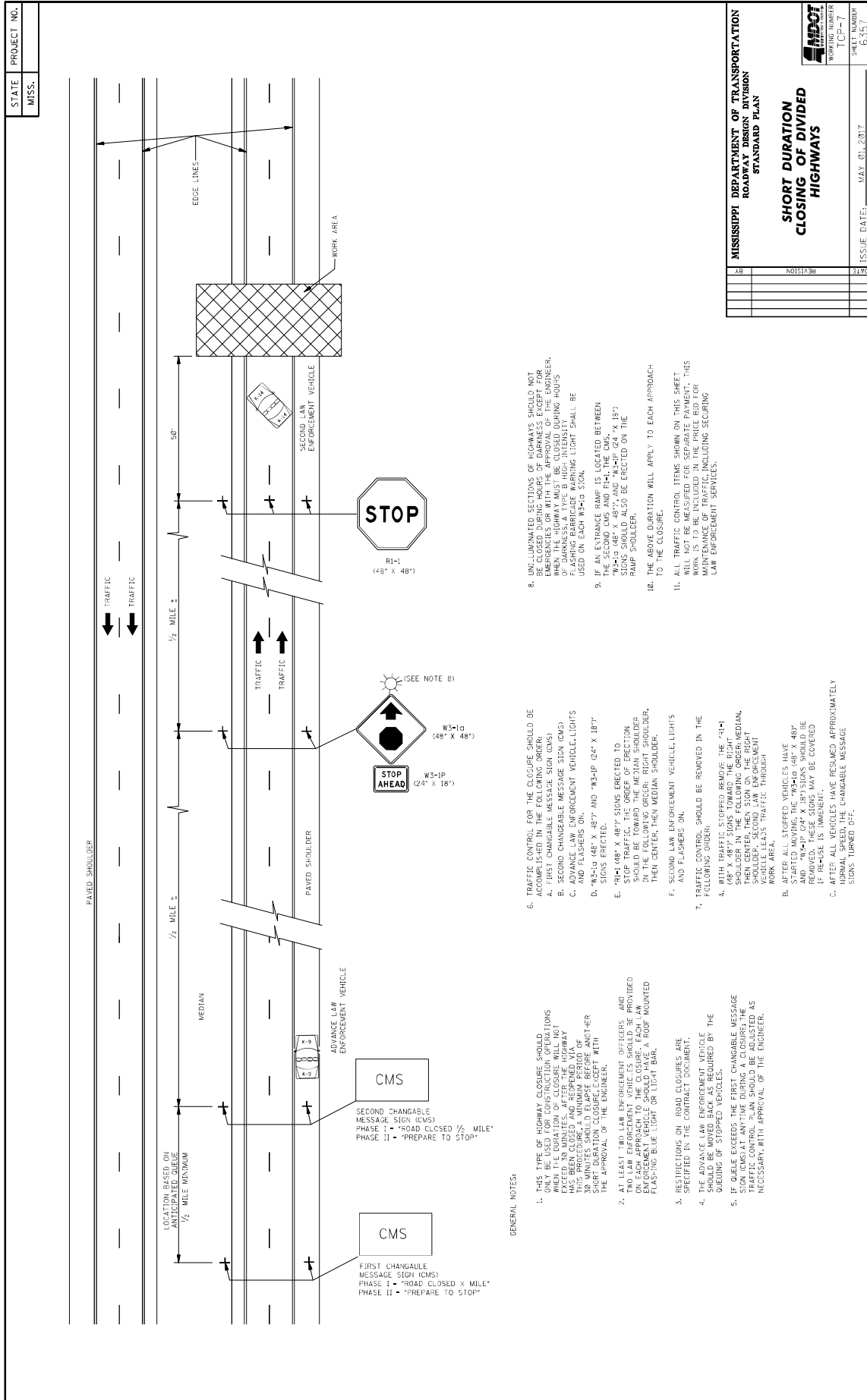




STATE	PROJECT NO.
MISS.	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
SHORT DURATION CLOSING OF TWO-LANE TWO-WAY HIGHWAYS	
ISSUE DATE:	MAY 01, 2017
SHEET NUMBER	6356
WORKING NUMBER	TC-P-6
REVISION	

- GENERAL NOTES:**
- THIS TYPE OF HIGHWAY CLOSURE SHOULD BE USED ONLY FOR SHORT DURATION CLOSURES WHEN THE DURATION OF CLOSURE WILL NOT EXCEED 30 MINUTES. AFTER THE HIGHWAY IS CLOSED, A MINIMUM PERIOD OF 30 MINUTES SHOULD ELAPSE BEFORE ANOTHER CLOSURE IS ATTEMPTED. THIS TYPE OF CLOSURE SHOULD BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.
 - AT LEAST TWO LAW ENFORCEMENT OFFICERS AND ONE ADVANCE LAW ENFORCEMENT VEHICLE SHOULD BE ON EACH APPROACH TO THE CLOSURE. EACH LAW ENFORCEMENT VEHICLE SHOULD HAVE 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 POSITIONED AT THE END OF THE QUEUE OF STOPPED VEHICLES.
 - 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.
- 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 SHOULD BE IN THE FOLLOWING ORDER: RIGHT SHOULDER THEN CENTER.
 - SECOND LAW ENFORCEMENT VEHICLE, LIGHTS AND FLASHERS ON.
 - TRAFFIC CONTROL SHOULD BE REMOVED IN THE FOLLOWING ORDER:
 - WITH TRAFFIC STOPPED REMOVE THE "R1-1 (48" X 48") SIGNS TOWARD THE RIGHT SHOULDER THEN SIGN ON THE RIGHT SHOULDER. SECOND LAW ENFORCEMENT VEHICLE ADDS 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. TRAFFIC SHOULD BE COVERED IF ROAD IS DAMAGED.
 - AFTER ALL VEHICLES HAVE RESUMED APPROXIMATELY NORMAL SPEED, THE CHANGABLE MESSAGE SIGNS TURNED OFF.
 - IF AN ENTRANCE RAMP IS LOCATED BETWEEN THE CLOSURE AND THE MAINLINE, "W3-1A (48" X 48") AND "W3-1P (24" X 18") SIGNS 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 IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE AND CONSTRUCTION INCLUDING SECURING LAW ENFORCEMENT SERVICES.



STATE PROJECT NO.
MISS.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
SHORT DURATION CLOSING OF DIVIDED HIGHWAYS	
AB	REVISION
3170	SHEET NUMBER
	WORKING NUMBER
	ISSUE DATE: MAY 01, 2017
	PROJECT NUMBER
	PROJECT NAME

- GENERAL NOTES:**
- THIS TYPE OF HIGHWAY CLOSURE SHOULD BE USED ONLY WHEN THE DURATION OF CLOSURE WILL NOT EXCEED 30 MINUTES AFTER THE HIGHWAY CLOSURE. THIS PROCEDURE A MINIMUM PERIOD OF 30 MINUTES SHOULD ELAPSE BEFORE ANY OTHER CLOSURES ARE MADE 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), THE ADVANCE LAW ENFORCEMENT 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(S) AND FLASHERS ON
 - "W3-1Q (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 SHOULD BE TOWARD THE MEDIAN SHOULDER, THEN CENTER, THEN MEDIAN SHOULDER, AND FLASHERS ON.
 - SECOND LAW ENFORCEMENT VEHICLE, LIGHTS AND FLASHERS ON.
 - TRAFFIC CONTROL SHOULD BE REMOVED IN THE FOLLOWING ORDER:
 - WITH TRAFFIC STOPPED REMOVE THE "R1-1" SIGN FROM THE MEDIAN SHOULDER, THEN CENTER, THEN SHOULDER IN THE FOLLOWING ORDER: MEDIAN, THEN CENTER, THEN SIGN ON THE RIGHT SHOULDER. AFTER ALL TRAFFIC IS STOPPED, THE VEHICLE LEADS TRAFFIC THROUGH THE WORK AREA.
 - AFTER ALL STOPPED VEHICLES HAVE STARTED MOVING, THE "W3-1Q (48" X 48") AND "W3-1P (24" X 18") SIGNS SHOULD BE REMOVED. THESE SIGNS MAY BE COVERED IF RELEASE IS IMMINENT.
 - AFTER ALL VEHICLES HAVE RESUMED APPROXIMATELY NORMAL FLOW, THE CHANGABLE MESSAGE SIGNS TURNED OFF.
 - UNILLUMINATED SECTIONS OF HIGHWAYS SHOULD NOT BE CLOSED DURING HOURS OF DARKNESS EXCEPT FOR EMERGENCY REPAIRS. THE SIGNAGE FOR DARKNESS WHEN THE HIGHWAY MUST BE CLOSED DURING HOURS OF DARKNESS: A TYPE B HIGH-INTENSITY FLUORESCENT LIGHTING SYSTEM LIGHT SHALL BE USED ON EACH W3-1Q SIGN.
 - IF AN ENTRANCE RAMP IS LOCATED BETWEEN THE SECOND LANE AND R1-1, THE SIGNS "W3-1Q (48" X 48") AND "W3-1P (24" X 18") SIGNS 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 FOR MAINTENANCE OF SERVICES INCLUDING SECURING LAW ENFORCEMENT SERVICES.

STATE PROJECT NO.
MISS.

WORKING NUMBER
ICP-5

SHEET NUMBER
03500

WING BARRICADES

- WING BARRICADES ARE TYPE II BARRICADES ERECTED ON THE SHOULDER OF A ROADWAY OR RESTRICTED ROADWAY. WING BARRICADES MAY BE USED AS A MOUNTING FOR THE ADVANCE WARNING SIGNS OR FLASHERS.
- WING BARRICADES SHOULD BE USED:
 - IN ADVANCE OF A CONSTRUCTION PROJECT EVEN WHEN NO PART OF THE ROADWAY IS ACTUALLY CLOSED.
 - IN ADVANCE OF ALL BRIDGE OR CULVERT WIDENING OPERATIONS.

BARRICADE CLOSING A ROAD

	I	II	III
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 4 IF FACING TRAFFIC IN TWO DIRECTIONS

BARRICADE CHARACTERISTICS

* 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.

STANDARD BARRICADES

- THE MARKING FOR BARRICADE RAILS SHALL BE ORANGE AND WHITE (SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION OF TRAFFIC IS TO PASS).
- RAIL STRIPE SHALL BE 6 INCHES, EXCEPT THAT 4-INCH WIDE STRIPES MAY BE USED IF RAIL LENGTHS ARE LESS THAN 36 INCHES.
- DO NOT PLACE SANDBAGS OR OTHER DEVICES TO PROVIDE MASS ON THE BOTTOM RAIL THAT WILL BLOCK VIEW OR RAIL FACE.
- FOR ADDITIONAL INFORMATION OR DETAILS, SEE METHOD, LATEST EDITION.
- BARRICADES ARE CLASSIFIED BY FHWA AS CATEGORY II WHEN DEVICES WHICH REQUIRE SUCCESSFULLY CRASH TESTED. A LIST OF CRASHWORTHY BARRICADES AND OTHER CATEGORY II DEVICES CAN BE FOUND ON FHWA'S WEBSITE: http://safety.fhwa.dot.gov/roadway_dept/pafety_guidance/road_hardware/cat2.cfm

CHEVRON SIGN DETAIL

- A CHEVRON SIGN CONSISTS OF A BLACK CHEVRON TYPE MARKING ON AN ORANGE BACKGROUND AND SHALL POINT IN THE DIRECTION OF TRAFFIC FLOW.
- THE CHEVRON SIGN SHALL BE MOUNTED ON CRASHWORTHY SUPPORT.
- CHEVRON SIGNS MAY BE USED TO SUPPLEMENT OTHER STANDARD DEVICES WHERE ONE OR MORE LANES ARE CLOSED FOR CONSTRUCTION OR MAINTENANCE. THEY SHOULD BE PLACED APPROXIMATELY 240' BEHIND THE LANE TRANSITION STRIPE.

PLASTIC DRUM STRIPING DETAIL

- PLASTIC DRUMS SHALL BE ON END AND USED AS AN EXPEDIENT METHOD FOR TRAFFIC CHANNELIZATION. THE COLOR AND MARKING OF DRUMS SHALL BE CONSISTENT WITH MARKING STANDARDS. THE DRUMS SHALL BE PAINTED WITH RETROREFLECTIVE STRIPES (2 ORANGE & 2 WHITE) 6" WIDE.
- DRUMS SHOULD NEVER BE PLACED IN THE ROADWAY WITHOUT WARNING SIGNS.
- WHERE PRACTICAL PLASTIC DRUMS SHOULD BE PLACED NO CLOSER THAN 3'-0" FROM THE EDGE OF TRAVELED LANE.

TYPE 3 OBJECT MARKER (OM-3R)

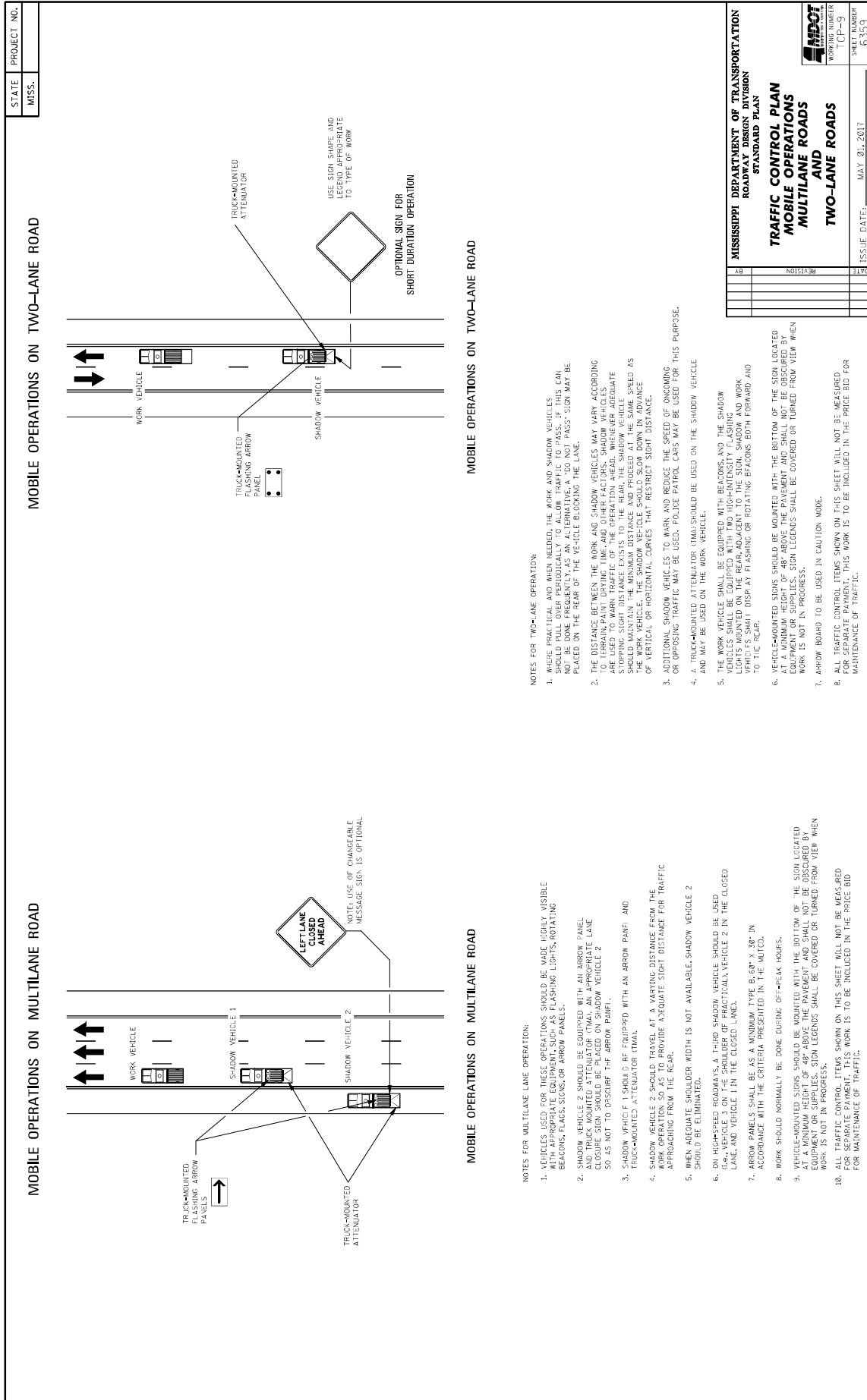
- TYPE 3 OBJECT MARKERS SHALL BE USED AT ALL EXPOSED BRIDGE ABUTMENTS AND AT OTHER LOCATIONS AS DETERMINED NECESSARY BY THE ENGINEER.
- THE OM-3R IS SIMILAR EXCEPT THE STRIPES SLOPE DOWNWARD FROM THE UPPER LEFT SIDE TO THE LOWER RIGHT SIDE AND SHALL BE PLACED ON THE LEFT SIDE OF THE OBJECT.
- THE INSIDE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

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN**

HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS

DATE	REVISION

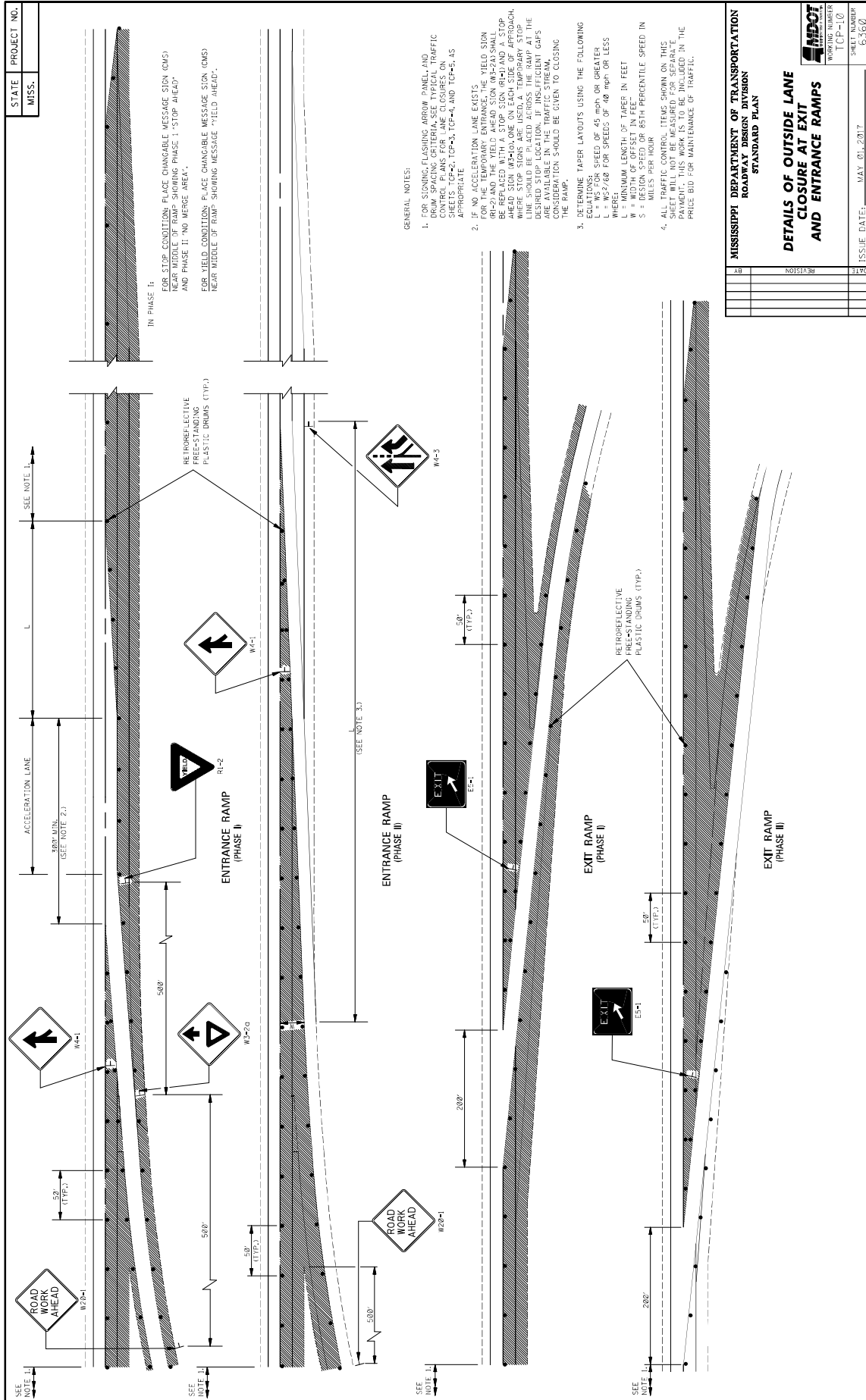
ISSUE DATE: MAY 21, 2017

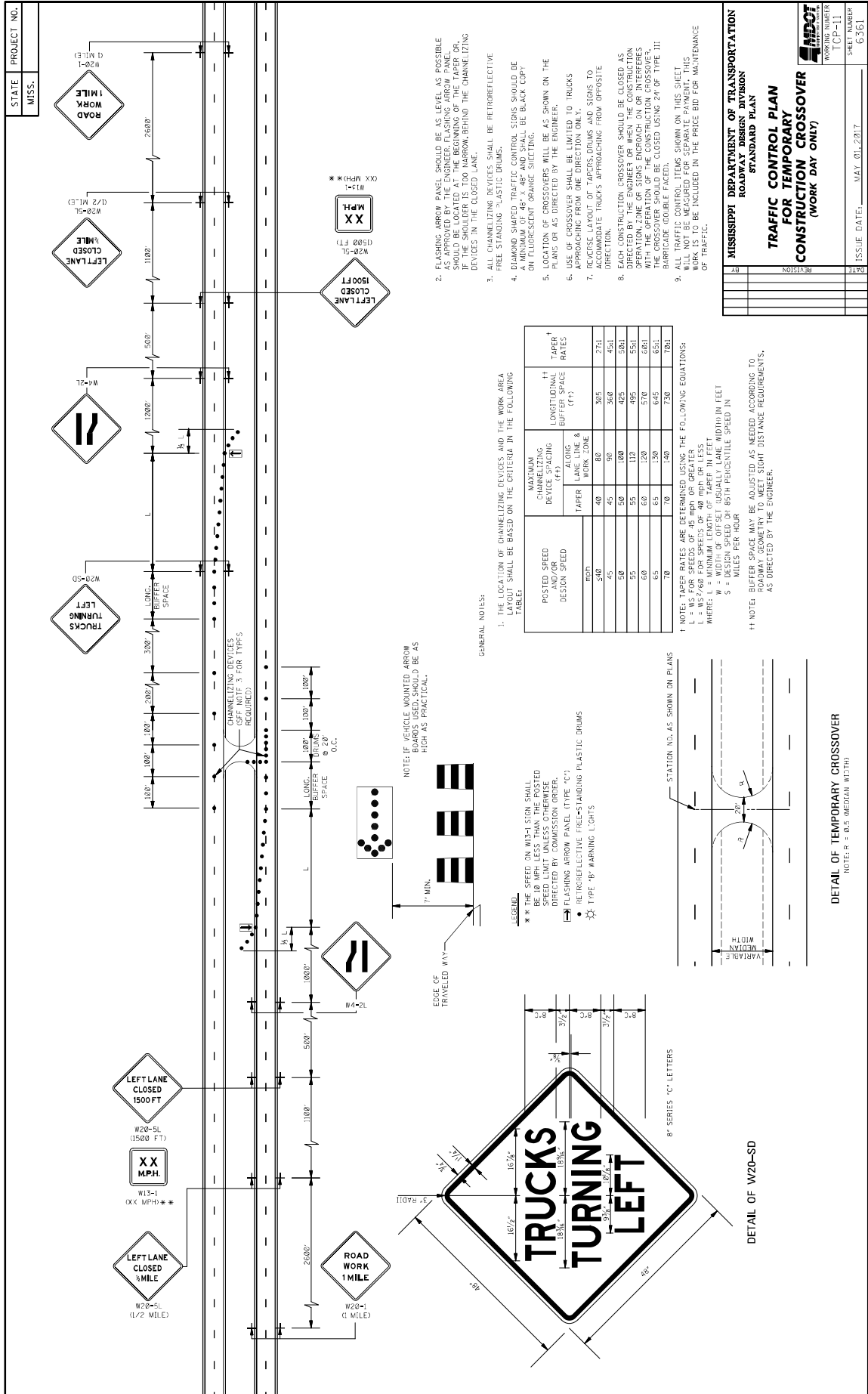


STATE	PROJECT NO.
MISS.	

MOBILE OPERATIONS ON TWO-LANE ROAD

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
ROADWAY DESIGN DIVISION	
STANDARD PLAN	
TRAFFIC CONTROL PLAN	
MOBILE OPERATIONS	
MULTILANE ROADS	
TWO-LANE ROADS	
ISSUE DATE:	MAY 01, 2017
SHEET NUMBER	CP-9
WORKING NUMBER	6359



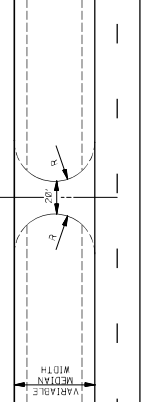
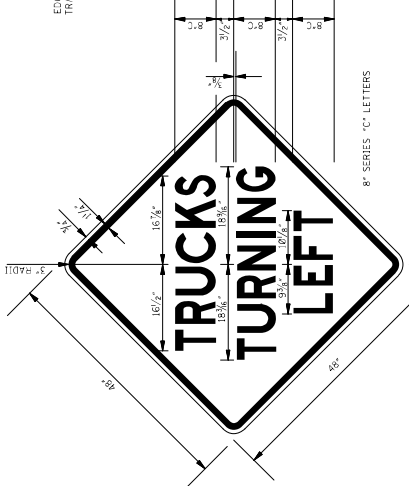
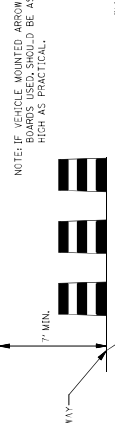


1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA TAPER SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:
2. FLASHING ARROW PANELS SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANELS SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.
3. ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
4. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE BLACK COPY ON FLUORESCENT ORANGE SUCTING.
5. LOCATION OF CROSSOVERS WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
6. USE OF CROSSOVER SHALL BE LIMITED TO TRUCKS APPROACHING FROM ONE DIRECTION ONLY.
7. REVERSE LAYOUT OF TAPERS, DRUMS AND SIGNS TO ACCOMMODATE TRUCKS APPROACHING FROM OPPOSITE DIRECTION.
8. EACH CONSTRUCTION CROSSOVER SHOULD BE CLOSED AS SHORT AS POSSIBLE TO ACCOMMODATE TRUCKS APPROACHING FROM BOTH DIRECTIONS WITH THE OPERATION OF THE CONSTRUCTION CROSSOVER.
9. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (FT)	TAPER [†] LONGITUDINAL BUFFER SPACE RATES	
		TYPE 'A' ALONG TAPER LANE LINE & WORK ZONE	TYPE 'B' ALONG BUFFER SPACE
50	49	82	305
55	45	90	362
60	50	100	425
65	55	110	495
70	60	120	570
75	65	130	645
80	70	140	730
85			825

† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
 $L = 1.47 S W$
 $L = \text{MINIMUM LENGTH OF TAPER IN FEET}$
 $W = \text{WIDTH OF OFFSET USUALLY LANE WIDTH IN FEET}$
 $S = \text{DESIGN SPEED IN MILES PER HOUR}$
 $S = 85\text{TH PERCENTILE SPEED IN MILES PER HOUR}$

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

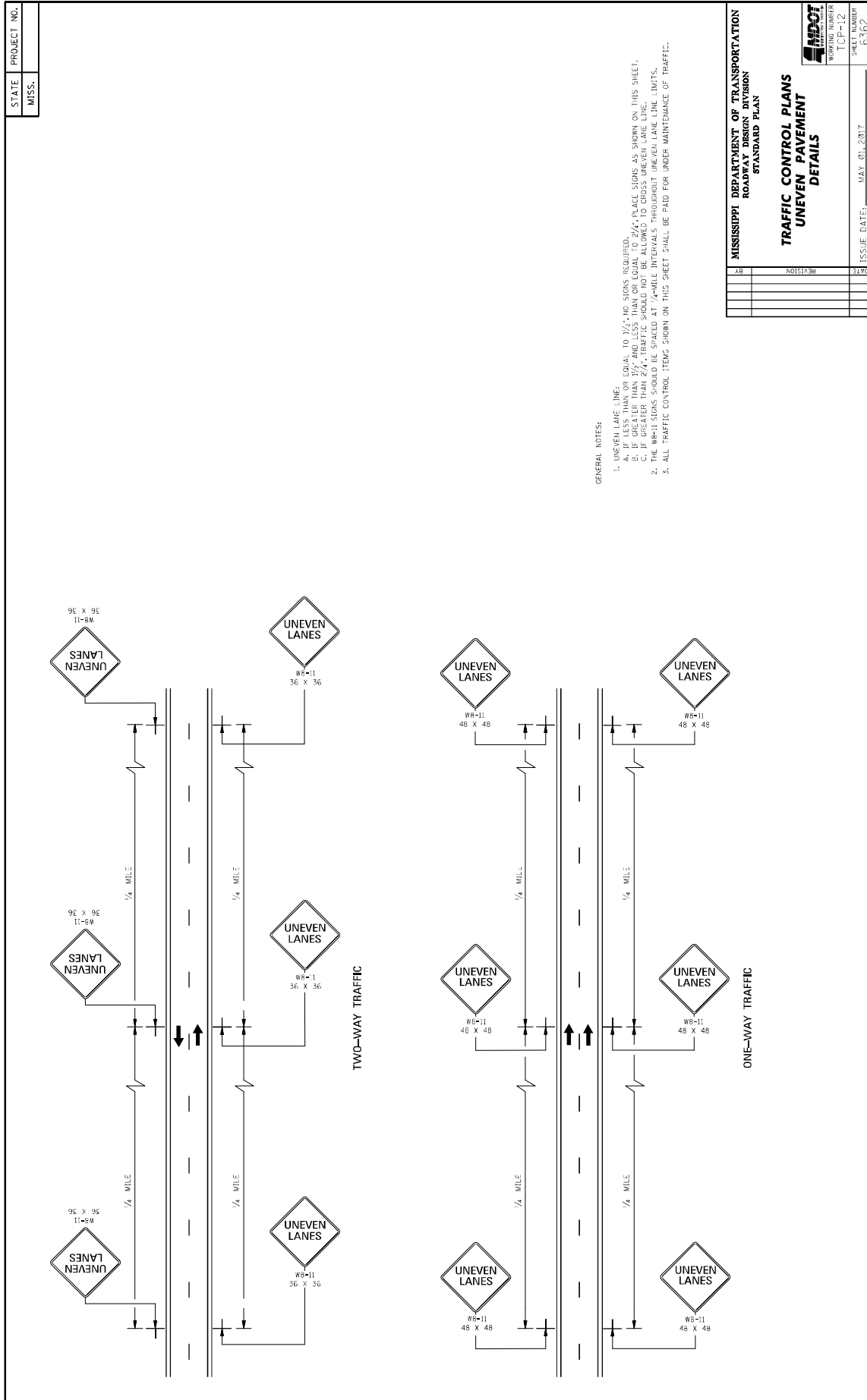


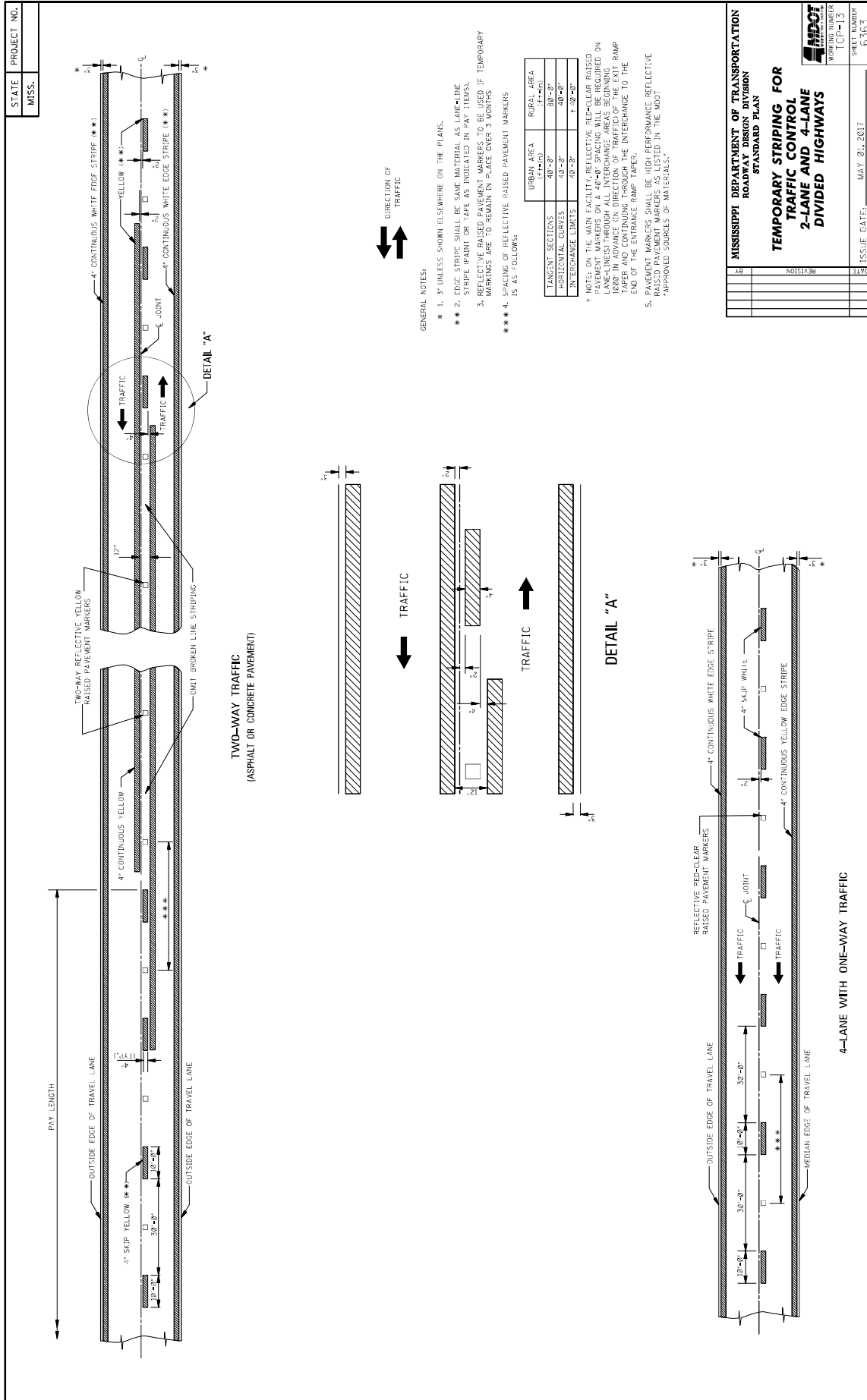
STATE PROJECT NO. MISS.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN DIVISION
 STANDARD PLAN
**TRAFFIC CONTROL PLAN
 FOR TEMPORARY
 CONSTRUCTION CROSSOVER
 (WORK DAY ONLY)**

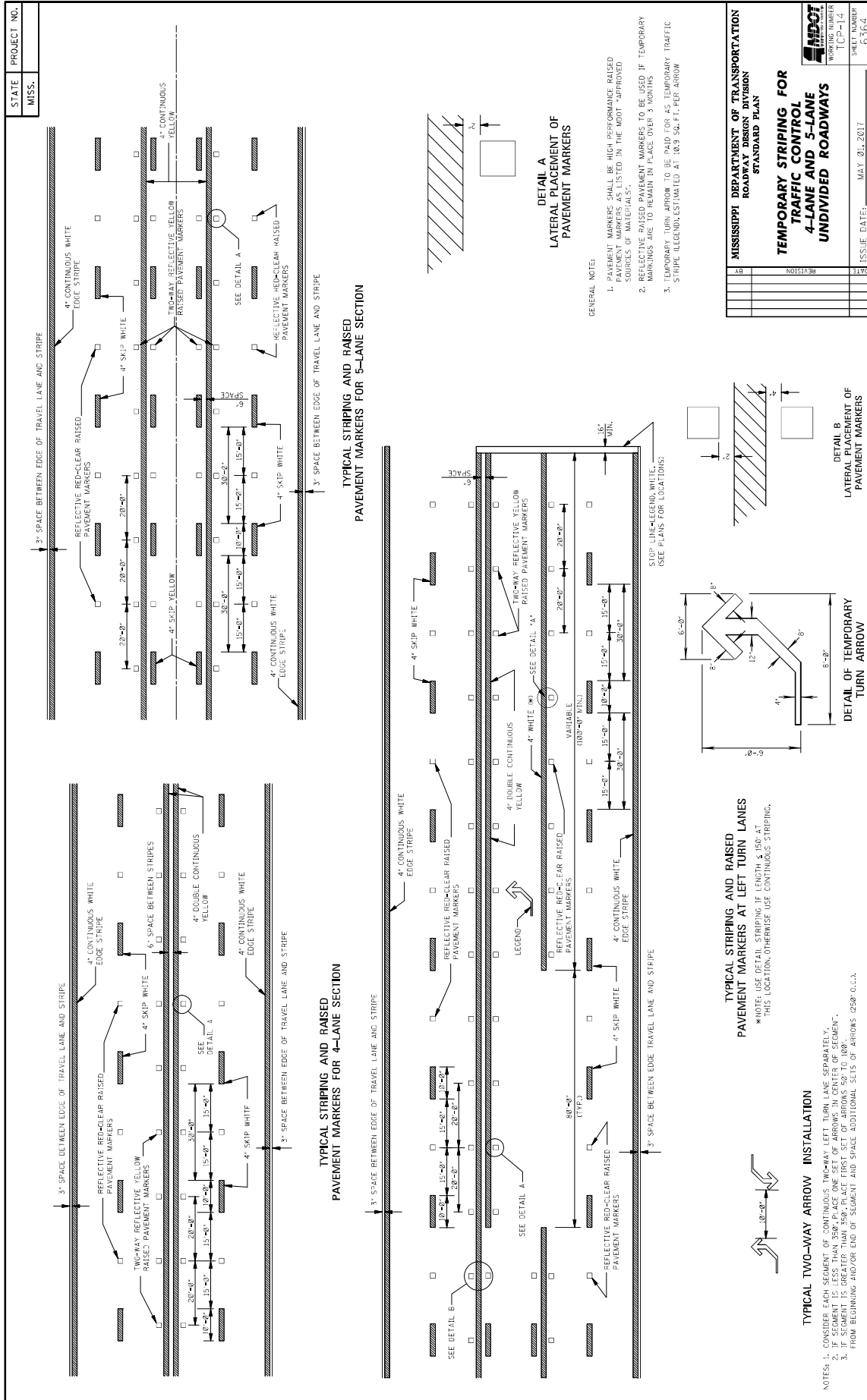
WORKING NUMBER: TCR-11
 SHEET NUMBER: 6361

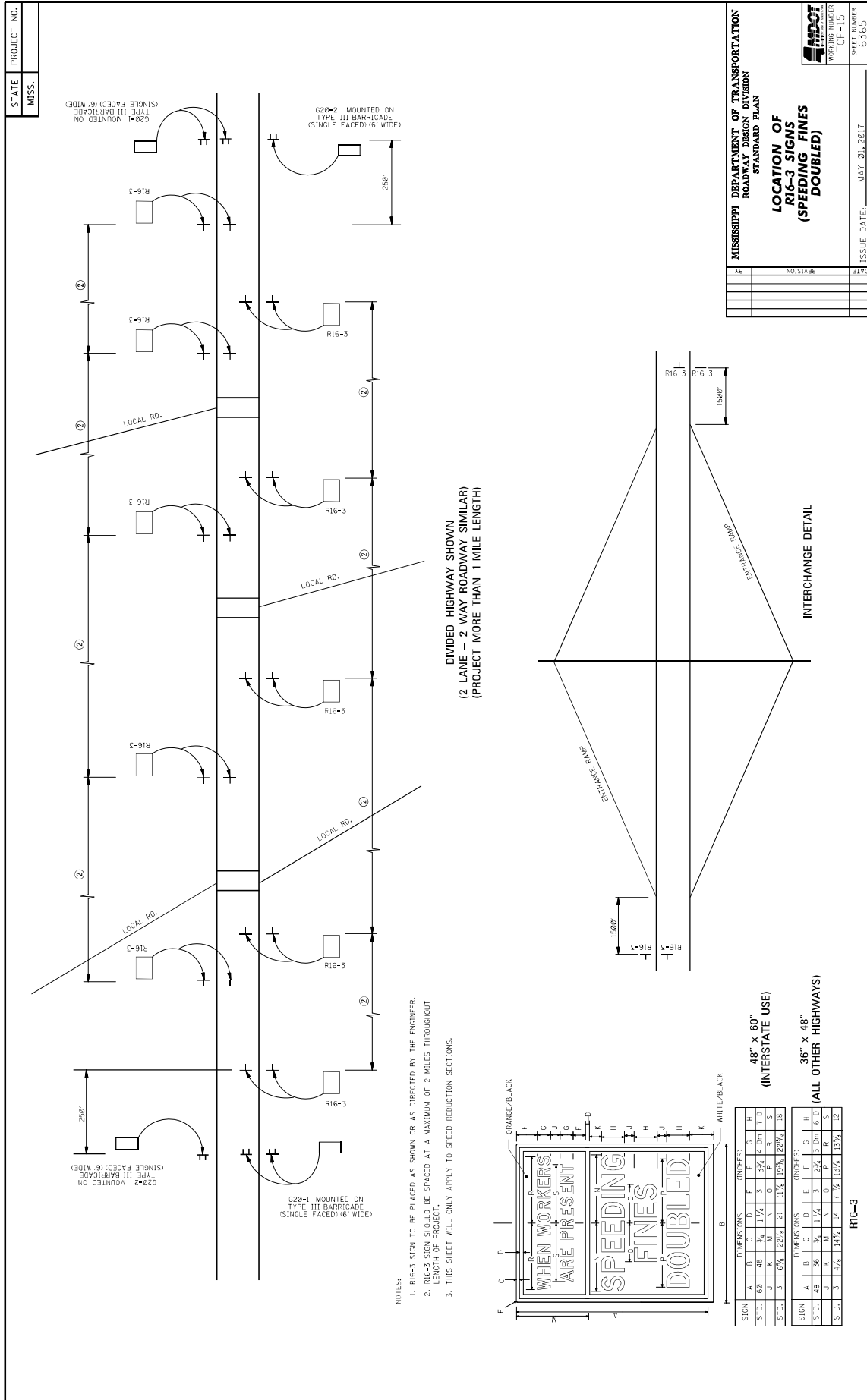
ISSUE DATE: MAY 01, 2017

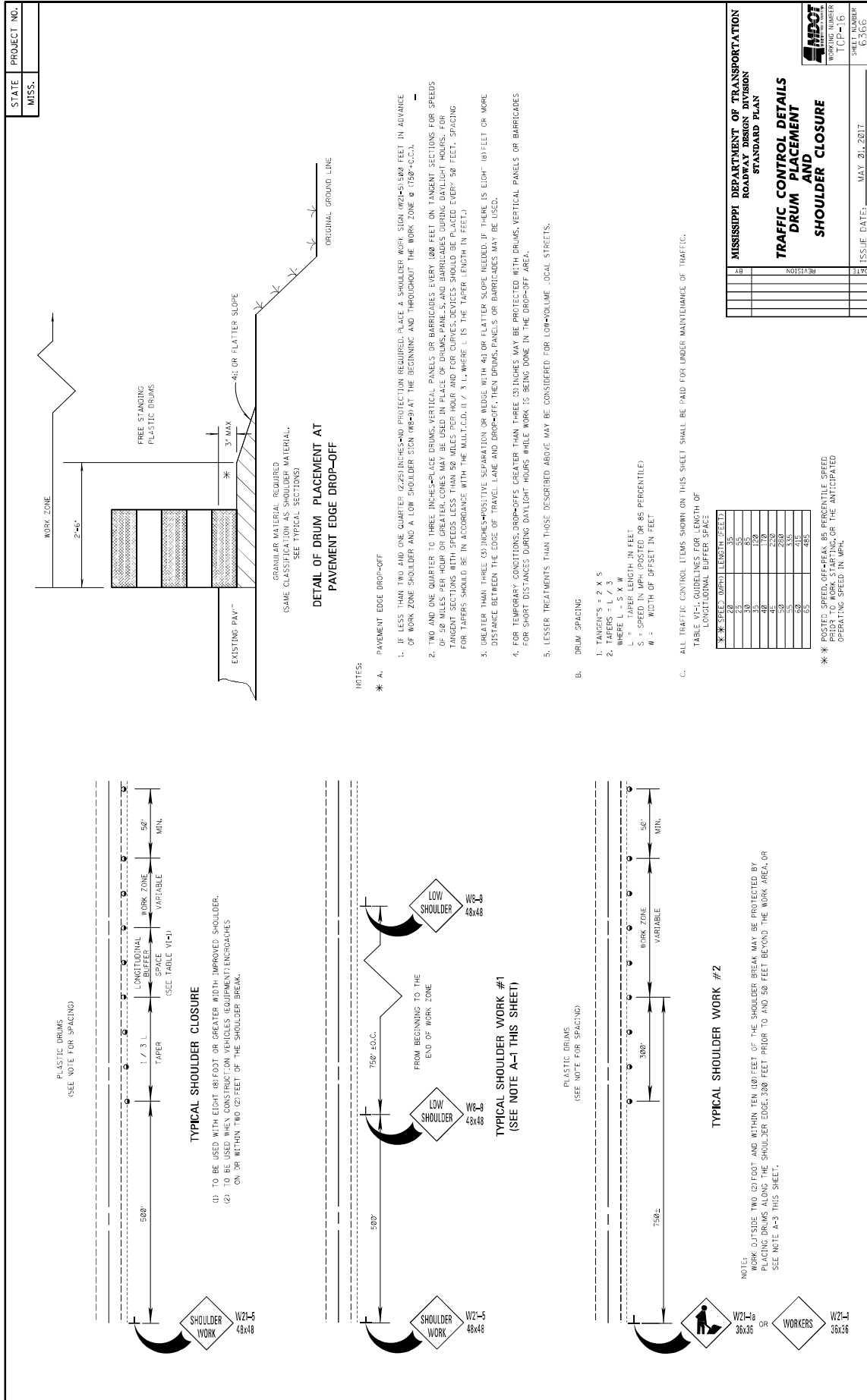




MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
TEMPORARY STRIPING FOR 2-LANE AND 4-LANE DIVIDED HIGHWAYS	
WORKING NUMBER [CP-13]	SHEET NUMBER 6363
REVISION	ISSUE DATE: MAY 01, 2017



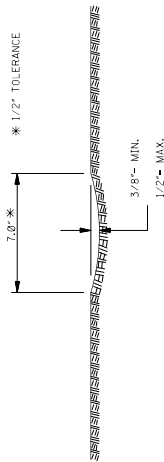




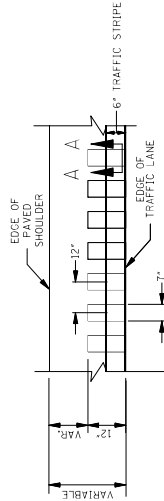


GENERAL NOTES

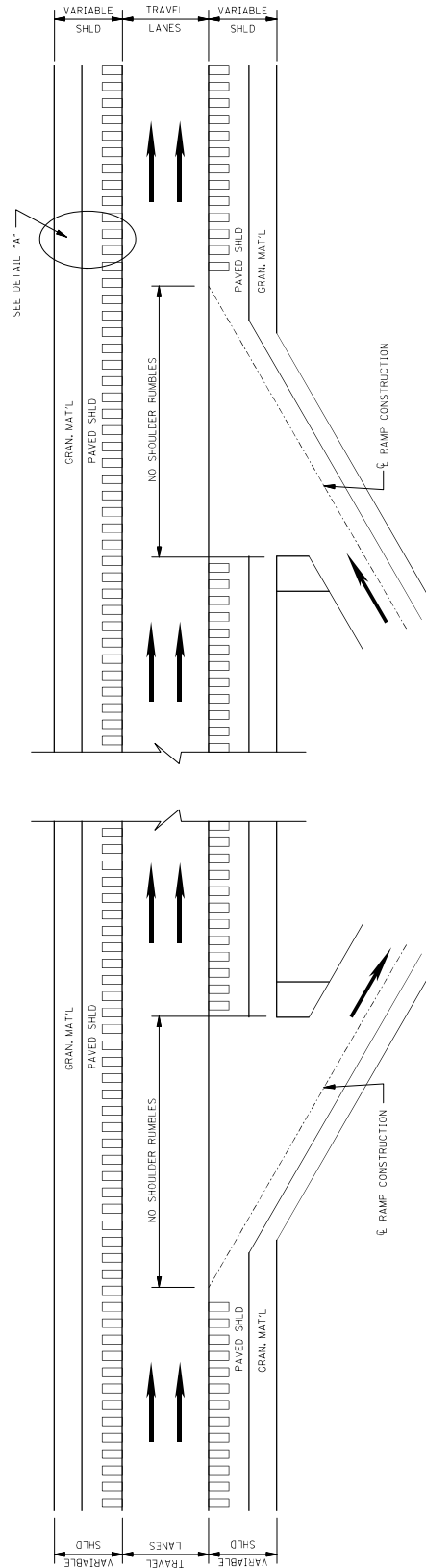
- GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL PAVED SHOULDERS AND ALL PAVED SHOULDERS ON THIS PROJECT
- GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL EXISTING AND NEW ROADWAYS AND OTHER INTERSECTIONS IN NORMAL SHOULDER WIDTH AS DIRECTED BY THE ENGINEER
- COST TO BE PAID FOR USING APPROPRIATE PAY ITEMS
- GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO:
 - MAINLINE
 - INTERSECTING ROADWAY IF OVERLAP OR RECONSTRUCTED BEYOND NORMAL MAINLINE R.O.W.
 - ANY ROADWAY WITH EXISTING RUMBLE STRIPES PRIOR TO CONSTRUCTION.



SECTION "A-A"



DETAIL "A"



PLAN
NOT TO SCALE

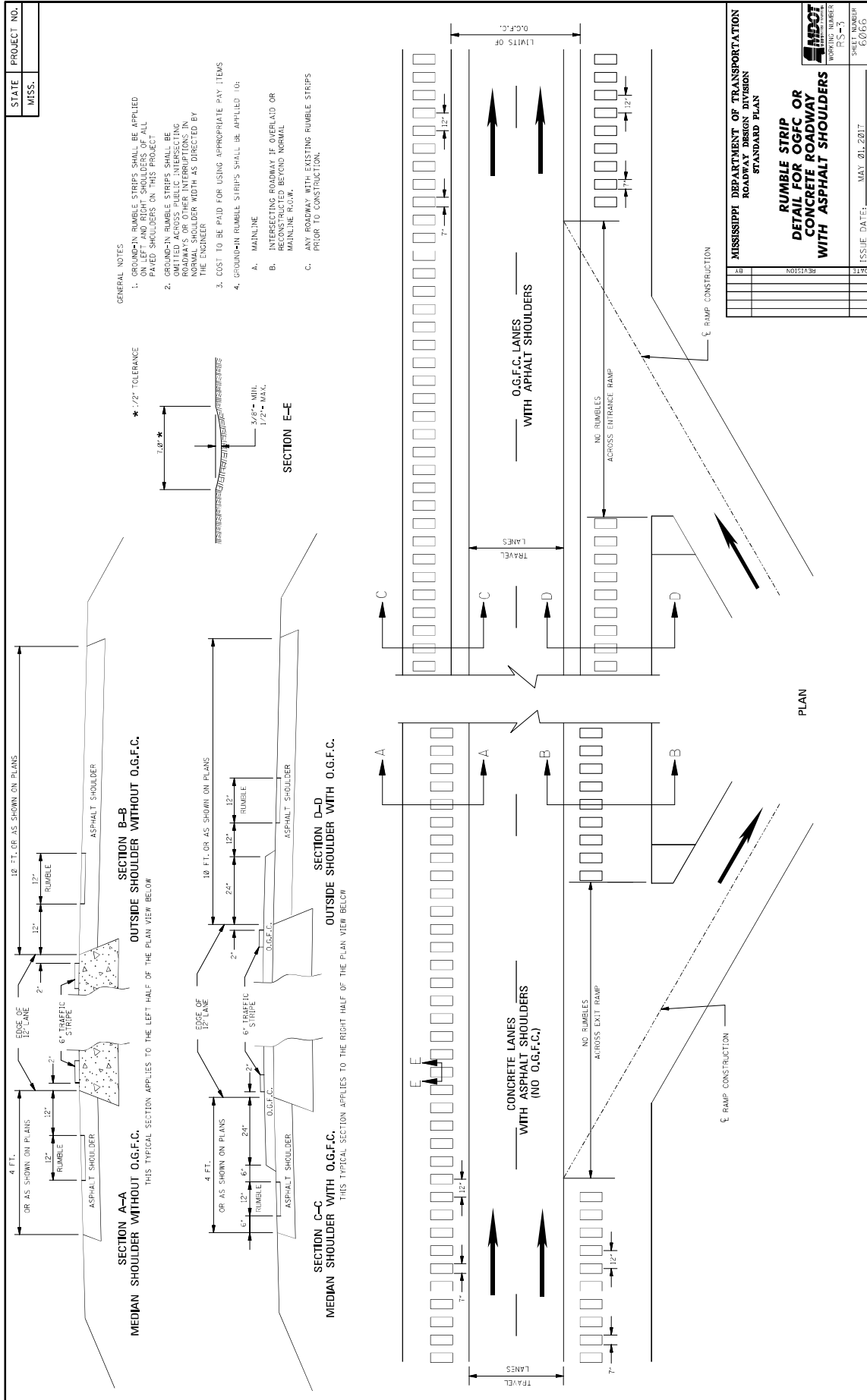
DETAILS OF
RUMBLE STRIPS

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**RUMBLE STRIPES
4-LANE HIGHWAYS
(ASPHALT LANES,
2-FT OR WIDER
ASPHALT SHOULDERS)**

DATE	REVISION	REVISION LOCATION	DESIGN NUMBER	DRAWING NUMBER
05/07	05R		SS-2	6065

ISSUE DATE: AUGUST 01, 2017



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3676

CODE: (SP)

DATE: 09/21/2021

SUBJECT: Asphalt Gyrotory Compactor Internal Angle Calibration

Bidders are advised that by March 1, 2022, all asphalt gyrotory compactors shall be calibrated to an internal angle of $1.16^{\circ} \pm 0.02^{\circ}$. This requirement will be reflected in updates made to MT-78, MT-80, and MT-83. This calibration requirement also extends to all QC/QA testing.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 4702

CODE: (SP)

DATE: 11/22/2022

SUBJECT: App for Traffic Control Reports

Bidders are advised that the Department has created a smart phone App for completing and submitting traffic control reports (Form CSD-762) required on this project. The Contractor who monitors traffic control activities and completes traffic control reports will be required to download and use this App when completing and submitting traffic control reports. The reports will then be readily available to all persons who need access to the forms. The App is free and is available for downloading at the following location.

<https://extacctmgmt.mdot.state.ms.us/>

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

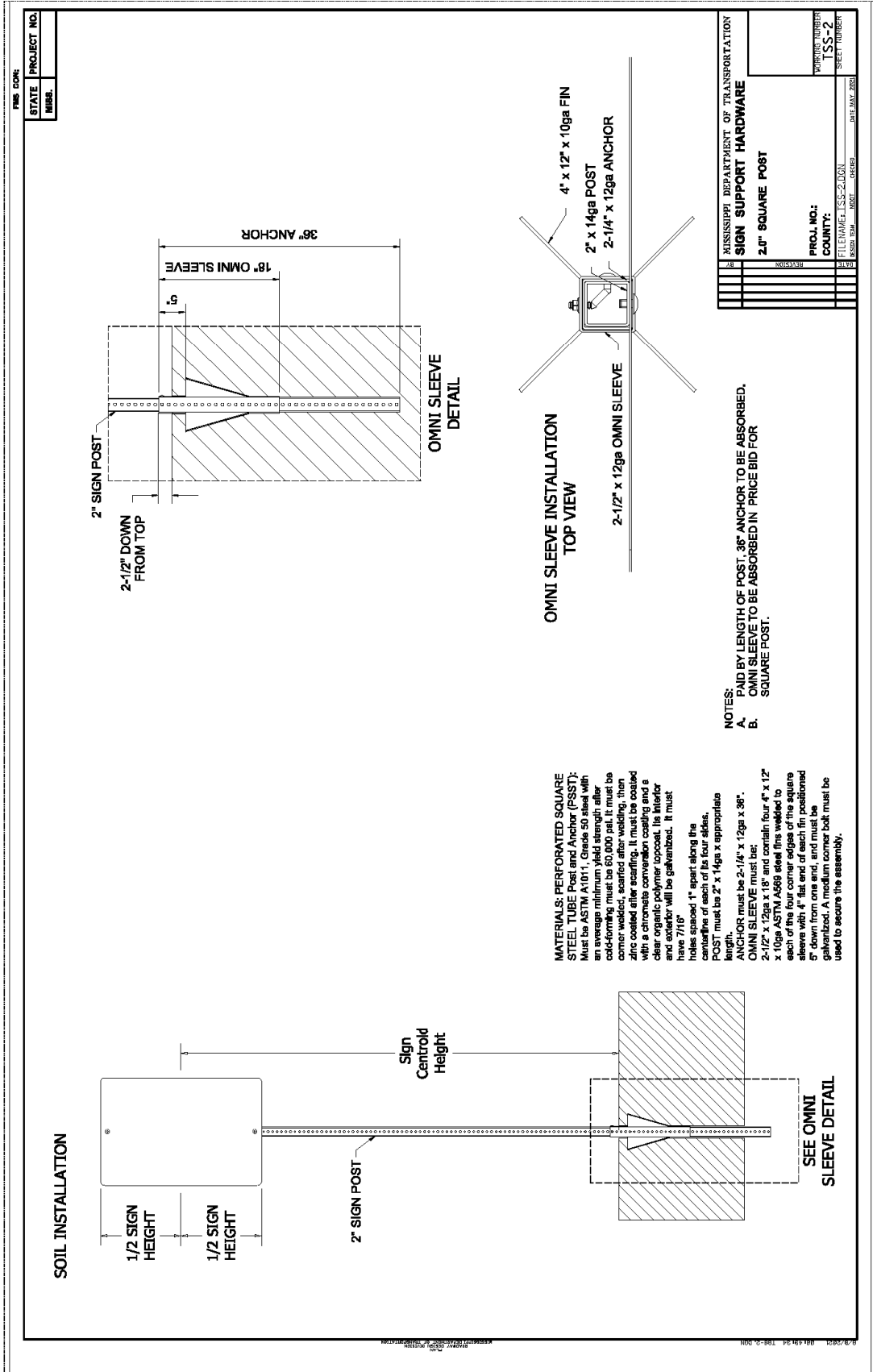
SECTION 904 - NOTICE TO BIDDERS NO. 5086

CODE: (SP)

DATE: 05/02/2023

SUBJECT: Detail of Square Tube Sign Posts

Bidders are advised that the following drawings shall be used in the manufacture and installation of square tube sign posts, unless otherwise directed by the Engineer.



FMS CON:	STATE PROJECT NO.				
	MISS.				

SIGN CLAMP KIT

SIGN CLAMP KIT

MATERIALS: 2" WIDE x 3/4" TYPE 304, A2B FINISHED STAINLESS STEEL BRACKET. INCLUDES 2 STAINLESS THREADED BOLTS AND SERRATED FLANGED NUTS. ONE CLAMP REQUIRED FOR EACH BRACE TO POST JUNCTION.

SIGN POSTS

SIGN POSTS

STEEL CONFORMS TO ASTM A500, Grade C. MUST BE WELDED, SCARFED OUTSIDE AFTER WELDING, THEN ZINC FLOCCED AND EXTENDED AFTER SCARFING. MUST BE COATED WITH A CROMATE CONVERSION COATING & CLEAR ORGANIC POLYMER TOPCOAT. POST WEIGHT IS 6.165 LBS.

UNIBASE ANCHOR STUB

UNIBASE ANCHOR STUB

4 1/2" x 54" x 7 GA UNIBASE ANCHOR AS90 GRADE B TUBE WELDED TO 1" THICK A572 SLIP PLATE. GALVANIZED PER ASTM A153.

SLIP BASE ASSEMBLY

SLIP BASE ASSEMBLY

13" OMNIDIRECTIONAL SLIP BASE RECEIVER FOR 4" SQUARE POST. ALSO INCLUDES HARDWARE TO 1" THICK A572 SLIP PLATE. GALVANIZED PER ASTM A153.

4" SQUARE POST RECEIVER

4" SQUARE POST RECEIVER

13" OMNIDIRECTIONAL SLIP BASE RECEIVER FOR 4" SQUARE POST. ALSO INCLUDES HARDWARE TO 1" THICK A572 SLIP PLATE. GALVANIZED PER ASTM A153.

4" SQUARE POST RECEIVER

4" SQUARE POST RECEIVER

13" OMNIDIRECTIONAL SLIP BASE RECEIVER FOR 4" SQUARE POST. ALSO INCLUDES HARDWARE TO 1" THICK A572 SLIP PLATE. GALVANIZED PER ASTM A153.

POST ATTACHMENT HARDWARE KIT

POST ATTACHMENT HARDWARE KIT WILL CONSIST OF:

- (3) 5/8" x 1 1/4" x 5-3/4" HEX BOLTS - A325
- (3) 3/8" x 1-3/4" AR400 WASHER
- (3) 3/8" x 1-3/8" AR400 WASHER
- (3) 5/8" HEX NUTS - A308CH

ALL NOT DIP GALVANIZED per ASTM A153 F2224.

NOTE: 1 POST ATTACHMENT HARDWARE KIT IS USED FOR SLIP BASE TOP POST RECEIVER. TORQUE TO 100 FT-LBS.

SLIP BASE MATCH PLATE HARDWARE KIT

SLIP BASE MATCH PLATE HARDWARE KIT (SLIP BASE HARDWARE TORQUED IS 60 FT-LBS.)

- 3/4" x 10 1/2" GRADE 8 DOUBLE HEADER FLANGE COATED, HARDENED SLIP WASHER (8 EACH PER KIT)
- 7/8" U.S.G. FLAT WASHER AND 1/2" x 2 1/2" TYPE A WIDE GALVANIZED PER ASTM A153 (8 EACH PER KIT)
- 2-1/2" SQUARE x 3/4" THICK TIE-LON COATED, HARDENED SLIP WASHER (8 EACH PER KIT)
- 3/4" x 10 GRADE 8 LARGE FLANGE NUT GALVANIZED PER ASTM A153 (8 EACH PER KIT)

NOTES:

- A. CONCRETE FOOTING MUST BE A MINIMUM OF 18" DIAMETER x 54" DEEP.
- B. BRASS SHIMS MAY BE USED BETWEEN SLIP PLATES TO LEVEL THE UPPER SLIP PLANE.
- C. MAXIMUM SIGN AREA PER SIGN BRACKET TO POST JUNCTION IS 10FT².

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
SIGN SUPPORT HARDWARE	
4" SQUARE POST (SINGLE POST)	
PROJ. NO.:	FILE NAME: JSS-3.DGN
COUNTY:	DATE: MAY 2021
REVISION	SHEET NUMBER
DATE	TSS-3
BY	SHEET TOTALS

PMS CON. STATE PROJECT NO. MISS.	HINGE ASSEMBLY	
	<p>HINGE ASSEMBLY (1) 2" DIA. STAINLESS STEEL HEX BOLTS (2) STAINLESS STEEL HEX NUTS (3) PLAT WASHERS (4) HINGE POST RECEIVER (5) HINGE POST (6) 1/2" DIA. STAINLESS STEEL TUBE (7) HINGE ASSEMBLY (8) HINGE ASSEMBLY (9) HINGE ASSEMBLY (10) HINGE ASSEMBLY (11) HINGE ASSEMBLY TORQUE TO 100 Ft-Lbs.</p>	
	<p>SIGN CLAMP KIT MATERIALS: 2" WIDE x 3/16" THICK STAINLESS STEEL BRACKET, 3/16" THICK STAINLESS STEEL BRACKET, 1/2" DIA. STAINLESS STEEL BOLTS AND NUTS, ONE CLAMP BRACKET PER SIGN BRACKET TO POST JUNCTION.</p>	
	<p>UNIBASE ANCHOR STUB 1-1/2" x 4" x 7" GA UNIBASE ANCHOR WELDED TO 1" THICK A572 SLIP PLATE, GALVANIZED PER ASTM A153.</p>	
	<p>4" SQUARE POST RECEIVER 1" THICK A572 SLIP PLATE, GALVANIZED PER ASTM A153.</p>	
	<p>SLIP PLATE DIMENSION 13" x 13" x 1 1/2"</p>	
	<p>4" SQUARE POST RECEIVER 1" THICK A572 SLIP PLATE, GALVANIZED PER ASTM A153.</p>	
	<p>NOTES: A. CONCRETE FOOTING MUST BE A MINIMUM OF 18" DIAMETER x 54" DEEP. B. BRASS SHIMS MAY BE USED BETWEEN SLIP PLATES TO LEVEL THE UPPER SLIP PLANE. C. MAXIMUM SIGN AREA PER SIGN BRACKET TO POST JUNCTION IS 10FT².</p>	
	<p>STEEL CONFORMS TO ASTM A500, GRADE C. MUST BE WELDED, BEVELLED OUTSIDE AFTER WELDING, GALVANIZED INTERIOR AND EXTERIOR AFTER SCRAPING. MUST BE COATED WITH A CHROMATE CONVERSION POLYMER TOPCOAT. POST WEIGHT IS 8.6 LBS/LF.</p>	
	<p>POST ATTACHMENT HARDWARE KIT WILL CONSIST OF: (1) 5/8" x 1 1/2" HEX BOLT - A325 (2) 5/8" x 1 1/2" ARMO WASHER (3) 5/8" FLAT WASHERS - F488 (4) 5/8" HEX NUTS - A563D14 ALL HOT DIP GALVANIZED PER ASTM A153/F2323.</p>	
	<p>NOTE: 1 POST ATTACHMENT HARDWARE KIT IS USED FOR EACH POST. 2 POST ATTACHMENT HARDWARE KITS ARE USED FOR HINGE ATTACHMENT TO MAIN POST AND TO SIGN POST. TORQUE TO 100 Ft-Lbs.</p>	
	<p>4" SQUARE POST (DUAL POST) MISSISSIPPI DEPARTMENT OF TRANSPORTATION WORKING NUMBER: TSS-4 COUNTY: PROJECT NO.: FILE NAME: TSS-4.DGN DATE: MAY 2003</p>	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5551

CODE: (IS)

DATE: 12/06/2023

SUBJECT: Federal Bridge Formula

Bidders are hereby advised that the latest revision of Federal Highway Administration Publication No. FHWA-HOP-06-105, **BRIDGE FORMULA WEIGHTS**, dated August 2006, is made a part of this contract when applicable.

Prior to the preconstruction conference, the Contractor shall advise the Engineer, in writing, what materials, if any, will be delivered to the jobsite via Interstate route(s).

Copies of the **BRIDGE FORMULA WEIGHTS** publication may be obtained by contacting:

Federal Highway Administration
400 7th Street, SW
Washington, DC 20590
(202) 366-2212

or

https://ops.fhwa.dot.gov/freight/publications/brdg_frm_wghts/

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5732

CODE: (SP)

DATE: 03/18/2024

SUBJECT: Contract Time

PROJECT: MP-2007-42(010) / 308294301 -- Leflore County

The completion of work to be performed by the Contractor for this project will not be a specified date but shall be when all allowable working days are assessed, or any extension thereto as provided in Subsection 108.06. It is anticipated that the Notice of Award will be issued no later than **May 14, 2024** and the date for Notice to Proceed / Beginning of Contract Time will be **June 13, 2024**.

Should the Contractor request a Notice to Proceed earlier than **June 13, 2024** and it is agreeable with the Department for an early Notice to Proceed, the requested date will become the new Notice to Proceed date. Regardless of whether or not an early Notice to Proceed is granted, contract time will start at the original Notice to Proceed date.

All requests for an early Notice to Proceed shall be sent to the Project Engineer who will forward it to the Contract Administration Division.

166 Working Days have been allowed for the completion of work on this project.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5733

CODE: (SP)

DATE: 03/18/2024

SUBJECT: Scope of Work

PROJECT: MP-2007-42(010) / 308294301 -- Leflore 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 this contract is for overlaying State Highway 7 from 2 miles south of Morgan City (MP: 7.290) (Station: 407+27) northerly approximately 11.6 miles to the Itta Bena (MP:18.896) (Station: 1011+00).

Bidders are advised that cross-slopes for curve super elevations shall be constructed in accordance with information provided by the Department. To assist the Contractor in correctly placing the cross-slope transitions, the Department will provide at the preconstruction conference the stationing and percent slope information.

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

At bridge ends and at the end of the workday, a taper of one vertical inch (1") for each three horizontal feet (3') shall be provided.

The Contractor shall make a utility location request to 811 prior to any excavation, except for trench widening or pavement removal/repair.

In order to expedite the safe movement of traffic and to protect each phase of the work as it is performed, a firm sequence of operations is essential. The work shall be begun and continually prosecuted.

The work shall consist of the following.

1. Failed areas shall be repaired using the following:
 - 202-B, Removal of Concrete Pavement w/Variable Depth Overlay
 - 202-B, Removal of Asphalt Pavement, All Depths
 - 203-G, Excess Excavation – for material below the pavement structure

- 304-F, Crushed Stone – to be used to replace unsuitable material below the 1-foot limit
- 403-A, 19-mm, ST Asphalt Pavement
- 503-C, Saw Cut, Full Depth

Station	Side		Length (feet)	Width (feet)		Concrete Area (SY)	Asphalt Area (SY)
	Rt.	Lt.		Conc.	Asp.		
412+95	X	X	6	9	3	12.00	4.00
437+60		X	25		3		8.33
440+55	X	X	6	9	3	12.00	4.00
448+00	X		63		3		21.00
450+00	X		81		3		27.00
453+75		X	54		3		18.00
455+00	X		298		3		99.33
455+00		X	55		3		18.33
456+50		X	109		3		36.33
458+15	X		91		3		30.33
458+60		X	64		3		21.33
460+30		X	35		3		11.67
460+85	X		254		3		84.67
465+00	X		71		3		23.67
466+10		X	201		3		67.00
474+90	X	X	13	9	3	26.00	8.67
487+30	X	X	8	9	3	16.00	5.33
488+75		X	22		3		7.33
499+75	X	X	6	9	3	12.00	4.00
513+05	X	X	9	9	3	18.00	6.00
520+00	X		327		3		109.00
520+00		X	227		3		75.67
523+20	X	X	8	9	3	16.00	5.33
525+15	X	X	108	9	3	216.00	72.00
525+85		X	10	9	3	10.00	3.33
541+40	X		56		3		18.67
551+85	X	X	8	9	3	16.00	5.33
557+60	X	X	10	9	3	20.00	6.67
563+05	X	X	7	9	3	14.00	4.67
576+50	X		4	9	3	4.00	1.33
582+50		X	10	9	3	10.00	3.33
588+85		X	6	9	3	6.00	2.00
590+65	X	X	8	9	3	16.00	5.33
593+70	X	X	7	9	3	14.00	4.67
604+30	X	X	15	9	3	30.00	10.00
607+75		X	9	9	3	9.00	3.00
618+55		X	5	9	3	5.00	1.67
622+70	X	X	8	9	3	16.00	5.33

Station	Side		Length (feet)	Width (feet)		Concrete Area (SY)	Asphalt Area (SY)
	Rt.	Lt.		Conc.	Asp.		
635+60	X	X	7	9	3	14.00	4.67
645+00	X		213		5		118.33
645+00		X	6		5		3.33
647+15	X		6	9	5	6.00	3.33
652+90	X	X	6	9	5	12.00	6.67
668+95	X	X	6	9	5	12.00	6.67
672+70		X	5	9	5	5.00	2.78
683+25	X	X	6	9	5	12.00	6.67
690+70	X	X	8	9	5	16.00	8.89
700+10	X	X	7	9	5	14.00	7.78
723+60	X	X	8	9	5	16.00	8.89
730+00	X	X	7	9	5	14.00	7.78
736+05	X	X	7	9	5	14.00	7.78
765+50	X	X	6	9	5	12.00	6.67
775+95	X	X	6	9	5	12.00	6.67
782+55	X	X	6	9	5	12.00	6.67
791+55	X	X	9	9	5	18.00	10.00
800+30		X	142		5		78.89
800+95	X	X	9	9	5	18.00	10.00
807+80		X	7	9	5	7.00	3.89
808+05		X	5	9	5	5.00	2.78
855+70	X		80		5		44.44
885+00		X	6	9	5	6.00	3.33
888+90	X	X	6	9	5	12.00	6.67
894+30	X		6	9	5	6.00	3.33
894+80		X	6	9	5	6.00	3.33
903+85	X	X	7	9	5	14.00	7.78
910+35	X	X	9	9	5	18.00	10.00
916+10	X	X	11	9	5	22.00	12.22
923+35	X	X	8	9	5	16.00	8.89
933+00	X	X	8	9	5	16.00	8.89
940+10	X	X	8	9	5	16.00	8.89
942+85	X	X	5	9	5	10.00	5.56
952+75	X	X	4	9	5	8.00	4.44
968+90	X	X	8	9	5	16.00	8.89
990+40	X	X	10	9	5	20.00	11.11
991+50	X	X	6	9	5	12.00	6.67
993+90		X	12	9	5	12.00	6.67
998+20	X	X	6	9	5	12.00	6.67
1006+75	X	X	8	9	5	16.00	8.89
Total			3,000	513	312	955.00	1339.44

NOTE: Failed areas are estimated as one foot (1') of excavation and backfilled with one foot (1') (maximum 3½" lifts) of 19-mm, ST asphalt. The asphalt shall be placed per the Project Engineer's instructions.

NOTE: Failed areas shall be backfilled the same day as excavation.

The above areas were noted during the field inspection. Additional areas may require repair during construction.

2. The Contractor shall excavate three inches (3") deep and two feet (2') wide at the pavement edges for trench widening from station 407+27 (MP:7.290) to station 637+60 (MP:11.652). The entire length of the project will not be trench widened. The overall pavement width shall be twenty-eight feet (28') wide.

NOTE: Prior to this excavation, sufficient granular material shall be in place to provide an acceptable trench widening operation.

NOTE: Any material removed from the excavation operation of trench widening that cannot be reasonably used as part of the final shoulder shall be removed, and this material shall be moved simultaneous with the trench widening operation. The cost of this work will not be measured for separate payment, and the cost will be included in the cost of the trench widening pay item. Neither shall this material be allowed to remain rolled up on the existing shoulder or bladed down the existing slope.

NOTE: Due care shall be taken during this operation to blade material to the roadway and away from the ditch line. Material inadvertently bladed to the roadway vegetation shall be removed at no cost to the Department.

NOTE: Contractor shall take due care to only remove the amount of trench widening that can be replaced before the end of each day in order to not leave an open trench overnight.

3. The Contractor shall place 3" of trench widening (19-mm, ST, Trench Widening) in the previous excavated trench.
4. Cold milling of the existing asphalt pavement at the main line tie-ins, local road tie-ins and bridge ends to a depth of one and one-half inches (1½") and variable in order to provide a smooth transition will be required. The entire section will not be milled. The cold milling material obtained shall become the property of the contractor.
5. The Contractor shall place 9.5-mm, ST, Leveling asphalt for the leveling of existing horizontal curves to correct cross slopes. A maximum lift of three inches (3") shall be maintained for curve leveling. Granular material shall be placed on the shoulder prior to leveling of curves to maintain the legal drop-off requirements.

9.5-mm, ST, Leveling Asphalt Curve Correction		
# Curves	Length (feet)	Tons
4	8,000	2,550

- The Contractor shall place 1” and variable of 9.5-mm, ST, leveling asphalt for the leveling of the mainline to correct cross slopes. This work does not include leveling across the previous leveled horizontal curves.

9.5-mm, ST, Leveling Asphalt Pavement		
Length (feet)	Width (feet)	Tons
52,142	28	8,825

- The Contractor shall place 1½” of 9.5-mm, ST asphalt as a surface course on the previous leveled surface.

9.5-mm, ST Asphalt Pavement	
Area	Total
Mainline	15,475
Local Roads	425
Pads	325
Total	16,225

NOTE: The Contractor shall saw and seal the transverse joint on the mainline surface course.

- Granular material shall be placed on the shoulders as directed to raise the existing shoulders to the new surface course grade.

Granular Material, Class 5, Group D			
Length (feet)	Width (feet)	Depth (inches)	Tons
58,256	4	3	7,282

NOTE: Shoulders shall be bladed, shaped and compacted throughout the length of the project regardless of whether granular material is required.

NOTE: Granular material not required for the final shape of the shoulders may require removal under the pay item for excess excavation and may include small amounts of asphalt.

NOTE: Due care shall be taken during this operation to blade material to the roadway and away from the ditch line. Material inadvertently bladed to the roadway vegetation shall be removed at no cost to the Department.

- Temporary traffic stripe shall be placed daily as per Section 618 of the Standard Specifications.

- 10. Rumble strips for rumble stripe shall be installed on the outside of edge of the roadway.
- 11. Permanent pavement markings (thermoplastic striping, two-way clear reflective high performance raised markers, and two-way yellow reflective high performance raised markers) shall be placed as required. A 6-inch thermoplastic stripe shall be placed on the inside six inches (6”) of the rumble strip using an atomization method to create a “rumble strip.”
- 12. All existing post mounted standard roadside signs estimated in the attached table shall be replaced. The Contractor shall deliver the removed signs to the MDOT Leflore County Maintenance Shop located at 6771 Highway 49 South in Greenwood. All signs and hardware shall be removed from post prior to delivery. The Contractor shall verify the sign quantity prior to ordering materials. All hardware and footings required for the erection of new signs and post shall be absorbed in other items of work.

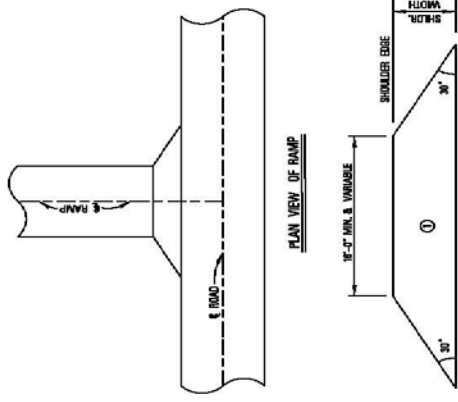
Sign Quantity			
Pay Item	Description	Unit	Quantity
202-B	Removal of Sign, Including Post and Footing	EA	63
630-A	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness	SF	95
630-A	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness	SF	324
630-A	Standard Roadside Signs, Sheet Aluminum, 0.1" Thickness	SF	207
630-C	Square Tube Post, 2.0 lb/ft	LF	1350
630-G	Type 3 Object Marker, OM-3R or OM-3L	EA	40

The Contractor shall provide all signs and traffic handling devices necessary to safely maintain traffic around or through the work areas.

Incidental work such as removing vegetation, shaping and compaction of shoulder, necessary and incidental grading of roadway ditches and other incidental work that is necessary to complete the work will not be measured for separate payment and the cost will be included in the bid items provided.

The Engineer may direct the use of additional cones at County roads or intersections within lane closures and will be absorbed in pay item 618-A: Maintenance of Traffic.

STATE	PROJECT NO.
MISS.	



① 1-1/2" & VARIABLE DEPTH ASPHALT PAVEMENT REQUIRED



MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
MISCELLANEOUS DETAIL	
DATE	BY
FILE NAME	NO. 1
PROJECT NO.	DATE
PROJECT NUMBER	SHEET NUMBER
MIS-1	

Station #	Lane	Sign Description	Sign Code	Removal U-Channel	Notes	Type 3 OM	0.080"	0.1"	0.125"	Square Tube Post, 2.0lb/ft
408+00	R	Side Road Right	W2-2R		missing				9	15
411+65	R	36" Stop	R1-1	1				7.46		15
411+65	L	Left Right Arrow	W1-7		missing (2 post support one sign)			8		30
418+50	L	Side Road Left	W2-2L		missing				9	15
423+00	R	Side Road Left	W2-2L		missing				9	15
429+25	L	36" Stop	R1-1	1				7.46		15
436+10	L	Side Road Right	W2-2R		missing				9	15
490+00	L	South	M3-3		missing		2			15
490+00	L	SR 7	M1-5		mounted on same post as South		4			
491+00	R	Speed Zone Ahead	R2-5c		missing		5			15
496+60	R	Speed Limit 45	R2-1	1			5			15
496+60	L	Speed Limit 55	R2-1		missing		5			15
498+00	R	Side Road Right	W2-2R		missing				9	15
500+25	R	36" Stop	R1-1	1				7.46		15
500+25	R	Stop Ahead Symbol	W3-1a		missing				9	15
500+25	L	Left Right Arrow	W1-7		missing (2 post support one sign)			8		30
509+45	R	36" Stop	R1-1	1				7.46		15
509+45	R	Stop Ahead Symbol	W3-1a		missing				9	15
509+45	L	Left Right Arrow	W1-7		missing (2 post support one sign)			8		30
512+35	R	Speed Limit 45	R2-1	1			5			15
512+90	R	36" Stop	R1-1	1				7.46		15
512+90	R	Stop Ahead Symbol	W3-1a		missing				9	15
512+90	L	Left Right Arrow	W1-7		missing (2 post support one sign)			8		30
513+00	L	Speed Limit 45	R2-1		missing		5			15
516+75	R	36" Stop	R1-1	1				7.46		15
516+75	R	Stop Ahead Symbol	W3-1a		missing				9	15
516+75	L	36" Stop	R1-1	1				7.46		15
516+75	L	Stop Ahead Symbol	W3-1a		missing				9	15
518+40	R	36" Stop	R1-1	1				7.46		15
518+40	R	Stop Ahead Symbol	W3-1a		missing				9	15
518+40	L	Left Right Arrow	W1-7		missing (2 post support one sign)			8		30
521+00	L	Side Road Left	W2-2L		missing				9	15
523+00	L	Speed Limit 45	R2-1		missing		5			15
523+00	R	Speed Limit 55	R2-1		missing		5			15
527+50	L	Speed Zone Ahead	R2-5c		missing		5			15
530+00	R	North	M3-1		missing		2			15
530+00	R	SR 7	M1-5		mounted on same post as North		4			
533+50	Both	Type 3 OM's	OM-3L&R	4		4				
615+00	R	Side Road Right	W2-2R	1					9	15
620+70	R	36" Stop	R1-1	1				7.46		15
620+70	R	Stop Ahead Symbol	W3-1a		missing				9	15
620+70	L	Left Right Arrow	W1-7	2	(2 post support one sign)			8		30
626+00	L	Side Road Left	W2-2L		missing				9	15
629+30	R	Side Road Right	W2-2R		missing				9	15
633+25	L	South	M3-3	1			2			15
633+25	L	SR 7	M1-5		mounted on same post as South		4			
636+50	R	36" Stop	R1-1	1				7.46		15
636+50	R	Stop Ahead Symbol	W3-1a	1					9	15
636+50	L	Left Right Arrow	W1-7	2	missing (2 post support one sign)			8		30
643+00	L	Side Road Left	W2-2L		missing				9	15
717+00	Both	Type 3 OM's	OM-3L&R	2	"2 missing in opposite lane"	4				
726+50	R	Crossroad Ahead	W2-1		missing				9	15
734+15	R	36" Stop	R1-1	1	"farm field road"			7.46		15
734+15	L	36" Stop	R1-1	1	"farm field road"			7.46		15
741+00	L	Crossroad Ahead	W2-1		missing				9	15
783+00	R	Side Road Left	W2-2L		missing				9	15
789+60	L	36" Stop	R1-1	1				7.46		15
789+60	L	Stop Ahead Symbol	W3-1a		missing				9	15
789+60	R	Left Right Arrow	W1-7		missing (2 post support one sign)			8		30
796+00	L	Side Road Right	W2-2R		missing				9	15
799+85	Both	Type 3 OM's	OM-3L&R	2	mounted on same post	4				
803+00	L	Speed Limit 55	R2-1		missing		5			15
807+75	R	Side Road Left	W2-2L	1					9	15
814+10	L	36" Stop	R1-1	1				7.46		15
814+10	L	Stop Ahead Symbol	W3-1a		missing				9	15

Station #	Lane	Sign Description	Sign Code	Removal U-Channel	Notes	Type 3 OM	0.080"	0.1"	0.125"	Square Tube Post, 2.0lb/ft
816+00	L	Side Road Right	W2-2R		missing				9	15
816+50	R	Side Road Left	W2-2L		missing				9	15
818+00	R	Bridge May Ice	W8-13	1					9	15
820+90	L	36" Stop	R1-1	1				7.46		15
820+90	L	Stop Ahead Symbol	W3-1a		missing				9	15
820+90	R	Left Right Arrow	W1-7	2	(2 post support one sign)			8		30
821+50	L	Side Road Right	W2-2R		missing				9	15
822+85 825+16	Both	Type 3 OM's	OM-3L&R	4	"Bridge BRN's #: 21.6"	4				
826+00	R	Side Road Right	W2-2R		missing				9	15
828+15	R	36" Stop	R1-1	1				7.46		15
828+15	R	Stop Ahead Symbol	W3-1a	1					9	15
828+15	L	Left Right Arrow	W1-7	2	(2 post support one sign)			8		30
830+00	L	Bridge May Ice	W8-13	1					9	15
835+00	L	Side Road Left	W2-2L		missing				9	15
837+25	R	Speed Limit 55	R2-1		missing		5			15
840+50	R	North	M3-1		missing		2			15
840+50	R	SR 7	M1-5		missing		4			
865+00	Both	Type 3 OM's	OM-3L&R	2	"2 missing in opposite lane"	4				
876+00	Both	Type 3 OM's	OM-3L&R	4		4				
910+50	R	Side Road Right	W2-2R		missing				9	15
917+45	R	36" Stop	R1-1	1	"farm field road"			7.46		15
924+10	L	Side Road Left	W2-2L		missing				9	15
925+20	Both	Type 3 OM's	OM-3L&R	2	mounted on same post	4				
956+10	Both	Type 3 OM's	OM-3L&R	2	mounted on same post	4				
982+85	Both	Type 3 OM's	OM-3L&R	2	mounted on same post	4				
993+90	Both	Type 3 OM's	OM-3L&R	2	mounted on same post	4				
996+00	R	Speed Zone Ahead	R2-5c	1			5			15
1000+25	L	South	M3-3	1			2			15
1000+25	L	SR 7	M1-5				4			
1007+05	R	Speed Limit 35	R2-1	1			5			15
1007+05	L	Speed Limit 55	R2-1		missing		5			15
TOTALS:				63		40	95	206.82	324	1350

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-101-1

CODE: (IS)

DATE: 07/20/2023

SUBJECT: Definitions and Terms

Section 101, Definitions and Terms, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-101.01--Abbreviations. After the abbreviation API on page 1, add the following.

APL Approved Products List

Replace the abbreviation for AWPA on page 1 with the following.

AWPA American Wood Protection Association

907-101.02--Definitions. Delete the sentence after the list of holidays in Subsection 101.02 on page 6 under **holidays, legal**, and substitute the following.

When a legal holiday falls on a Saturday or Sunday, the succeeding Monday, or as proclaimed by the Governor, will be observed as a legal holiday.

Delete the definition for Notice to Proceed in Subsection 101.02 on page 8, and substitute the following.

Notice to Proceed - Written notice to the Contractor to proceed with the contract work.

Delete the definition for “Plans” in Subsection 101.02 on page 8, and substitute the following.

plans - The approved plans, profiles, typical cross-sections, working drawings and supplemental drawings, or exact reproduction thereof, that show the location, character, dimensions, and details of the work to be done. The plans may also include electronic files, referred to on the plans as Electronic Files Identified as Plans, which may include engineering models, spreadsheets, CADD files or other electronic files used to convey design intent. When the contract does not have an official set of plans, reference to the plans shall mean the contract documents.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-102-2

CODE: (IS)

DATE: 11/22/2017

SUBJECT: **Bidding Requirements and Conditions**

Section 102, Bidding Requirements and Conditions, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-102.01--Prequalification of Bidders. Delete the last sentence of the third paragraph of Subsection 102.01 on page 13, and substitute the following.

The Bidder's Certificate of Responsibility number must be on file with the Department's Contract Administration Division prior to request for permission to bid.

907-102.02--Contents of Proposal Forms. Delete the fourth paragraph in Subsection 102.02 on page 13, and substitute the following.

Prospective bidders must complete an online request for permission to be eligible to bid a project. Upon approval, the bidder will be authorized to submit a bid electronically using Bid Express at <http://bidx.com>.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-103-2

CODE: (SP)

DATE: 06/22/2017

SUBJECT: Award and Execution of Contract

Section 103, Award and Execution of Contract, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-103.01--Consideration of Proposal. Delete the second and third paragraphs of Subsection 103.01 on page 19, and substitute the following.

907-103.01.1--For Projects Constructed Without Federal Funds. Resident Contractors actually domiciled in Mississippi are to be granted preference over nonresidents in awarding of Contracts financed 100% with State funds.

In consideration of proposals that are equal to or in excess of \$50,000 and financed 100% with State funds, a nonresident bidder domiciled in a state having laws granting preference to local Contractors will be considered for such contracts on the same basis as the nonresident bidder's state awards contracts to Mississippi Contractors bidding under similar circumstances. When a nonresident Contractor submits a bid equal to or in excess of \$50,000 on a contract financed 100% with State funds, a copy of the current laws from the state of domicile and an explanation thereof pertaining to treatment of nonresident Contractors shall be attached. If no preferential treatment is provided for Contractors in the state of domicile and contracts are awarded to the lowest responsible bidder, a statement to this effect shall be attached. Should the attachment not accompany the bid when submitted, the Contractor shall have 10 days following the opening of the bids to furnish the required information to the Contract Administration Director for attachment to the bid. Failure to provide the attachment within 10 days will result in the nonresident Contractor's bid being rejected and not considered for award. As used herein, the term "resident Contractor" includes a nonresident person, firm or corporation that has been qualified to do business in this State and has maintained a permanent full-time office in the State of Mississippi for two years prior to the submission of the bid, and the subsidiaries and affiliates of such a person, firm or corporation.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-105-2

CODE: (IS)

DATE: 07/20/2023

SUBJECT: Control of Work

Section 105, Control of Work, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-105.01--Authority of the Engineer. Delete the first sentence of the second paragraph of Subsection 105.01 on page 31, and substitute the following.

The Engineer has the right to suspend the work wholly or in part and to withhold payments because of the Contractor's failure to correct conditions unsafe for workmen or the general public, for failure to carry out provisions of the Contract, or for failure to carry out orders.

907-105.02--Plans and Working Drawings. Delete the first paragraph of Subsection 105.02 on page 31, and substitute the following.

After the contract is executed by the Executive Director, the Contractor will receive, free of charge, two bound copies of the proposal and contract documents (one executed and one blank) two full scale copies of the plans, five half-scale copies of the Plans, and Electronic Files Identified as Plans. The Contractor shall have one copy of the proposal and contract documents and one half-scale copy of the plans available at all times during work activity on the project.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-108-4

CODE: (SP)

DATE: 10/07/2020

SUBJECT: Subletting of Contract

Section 108, Prosecution and Progress, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-108.01--Subletting of Contract.

907-108.01.1--General. Delete the third sentence of the tenth paragraph of Subsection 108.01.1 on the bottom of page 72.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-109-5

CODE: (IS)

DATE: 11/14/2023

SUBJECT: Measurement and Payment

Section 109, Measurement and Payment, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-109.01--Measurement of Quantities. Delete the sixth full paragraph of Subsection 109.01 on page 88, and substitute the following.

If appropriate based on the specific circumstances of the project, the Contractor may request that material specified to be measured by the cubic yard or ton be converted to the other measure. The Contractor must submit this request to the Engineer. The Engineer will provide an approval or denial in writing. The decision is in the sole discretion of the Engineer. If approved, factors for this conversion will be determined by the District Materials Engineer and agreed to by the Contractor. The conversion of the materials along with the conversion factor will be incorporated into the Contract by supplemental agreement. The supplemental agreement must be executed before such method of measurement is used.

907-109.04--Extra Work.

907-109.04.1--Supplemental Agreement. Delete the second paragraph of Subsection 109.04.1 on page 90.

907-109.04.2--Force Account Agreement. Delete the last sentence of subparagraph (c) in Subsection 109.04.2 on page 91, and substitute the following.

An amount will be added equal to fifteen percent (15%) of the sum thereof, excluding sales tax.

Delete subparagraph (d) in Subsection 109.04.2 on pages 91 & 92, and substitute the following.

- (d) **Equipment.** Equipment used for force account work shall be of sufficient size and type necessary to perform the required work in an economic and expeditious manner. The Contractor must provide the manufacturer, make, model, year, type of fuel and other necessary information to determine proper hourly payment rates. Subject to advance approval of the Engineer, actual transportation cost for a distance of not more than 200 miles will be reimbursed for equipment not already on the project.

For equipment authorized by the Engineer for use on the force account work, the Engineer will use the equipment rental rates from the “*Rental Rate Blue Book*” as published on the Equipment Watch website www.equipmentwatch.com for the time period the force account work is authorized to determine payment to the Contractor. The maximum allowable rates

are determined as follows:

1. The hourly equipment rate will equal the FHWA total hourly rate. This rate takes into account adjustment factors for age and region.
2. The hourly estimated operating costs have been included in the FHWA total hourly rate.
3. The idle and standby rates shall be as listed in the "*Rental Rate Blue Book*" as reported by *Equipment Watch*.
4. These rates include the basic machine plus any necessary attachments.

Standby rates shall apply when equipment is not in operation and is approved by the Engineer to standby for later use to complete the work. Idle rates shall apply to equipment located on the project and the engine is burning fuel but no ground engaging or other components are actively engaged in meaningful work. In general, idle or standby rates shall apply when equipment is not in use, but will be needed again to complete the work and the cost of moving the equipment will exceed the accumulated standby cost. If the idle standby cost should exceed the equipment moving cost to or from the work site, the Contractor will be entitled to the moving cost only. Idle or standby rates will be used under the following conditions:

1. The equipment is totally dedicated to the force account work and not used intermittently on other work.
2. Idle or standby cost will be considered only after equipment has been operated on force account work.
3. The sum of idle or standby time and operating time shall not exceed eight (8) hours per day or 40 hours in a week.
4. Idle or standby payment will not apply to days not normally considered to be work days such as holidays, weekends, or days of inclement weather when no other work is taking place.

The Department will not pay for idle or standby time when equipment is inoperable, for time spent repairing equipment, or for the time elapsed after the Engineer has advised the Contractor that the equipment is no longer needed. The Department will determine if it will be more cost effective to pay standby time on approved equipment on site or for multiple mobilizations.

If equipment is needed, which is not included in the *Rental Rate Blue Book* as reported by *Equipment Watch*, the Department and Contractor will agree upon reasonable rental rates in writing before the equipment is used.

All equipment shall be subject to approval from day to day in accordance with the requirements of Subsection 108.05.

907-109.06--Partial Payment.

907-109.06.2--Advancement on Materials.

Delete the next to last paragraph of Subsection 109.06.2 on page 95, and substitute the following.

Materials for which an advanced payment has been allowed must be paid for by the Contractor within 30 days of the estimate on which the advanced payment was first allowed and proof of said payment must be verified by the supplier. If proof of payment is not furnished within the allowable 30 days, the advanced payment will be deducted on subsequent current estimates until such time that proof of payment is furnished.

907-109.07--Changes in Material Costs. After the fifth paragraph of Subsection 109.07 on page 96, change the web address to the following.

https://mdot.ms.gov/portal/current_letting

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-234-1

CODE: (SP)

DATE: 10/13/2021

SUBJECT: Silt Fence

Section 234, Silt Fence, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-234.02--Materials. Delete the first paragraph of Subsection 234.02 on page 181, and substitute the following.

Materials used in silt fence and super silt fence may be accepted by certification per Subsection 700.05.1. Geotextile fabric, posts, staples and woven wire backing, when required, shall meet the requirements of Subsection 714.13.

907-234.05--Basis of Payment. Add the “907” prefix to the pay items listed on page 183.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-413-2

CODE: (SP)

DATE: 05/09/2023

SUBJECT: Cleaning and Sealing Joints and Cracks

Section 413, Cleaning and Sealing Joints and Cracks, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-413.03--Construction Requirements.

907-413.03.3--Sawing and Sealing Transverse Joints in Asphalt Pavement.

907-413.03.3.4--Sealing. Delete the last sentence of the last paragraph of Subsection 413.03.3.4 on page 333, and substitute the following.

Poured joint sealing material shall only be placed when the air temperature is within the limits specified by the manufacturer.

907-413.05--Basis of Payment. Delete the last pay item listed on page 336, and substitute the following.

907-413-E: Sawing and Sealing Transverse Joints in Asphalt Pavement - per linear foot

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

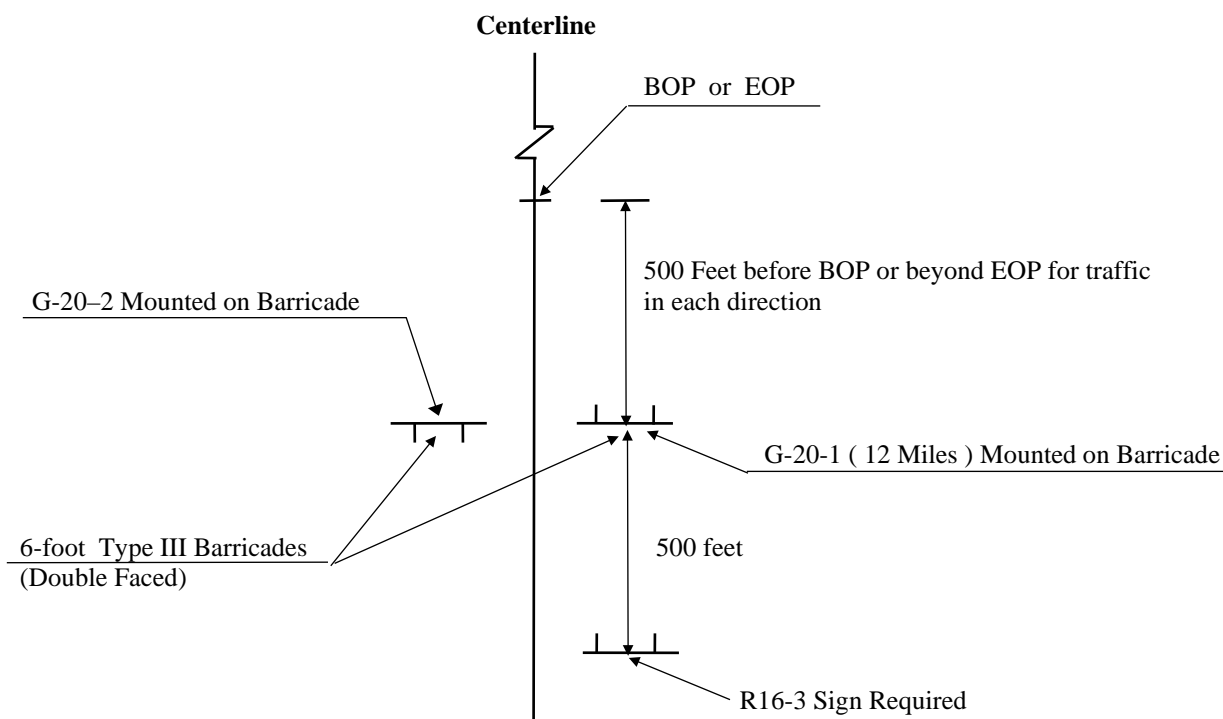
SUPPLEMENT TO SPECIAL PROVISION NO. 907-618-4

DATE: 03/12/2024

PROJECT: MP-2007-42(010) / 308294301 -- Leflore County

After the first paragraph of Subsection 907-618.01.2 on page 1, add the following.

Additional traffic control devices will be required as follows.



ADDITIONAL TRAFFIC CONTROL SIGNS REQUIRED:

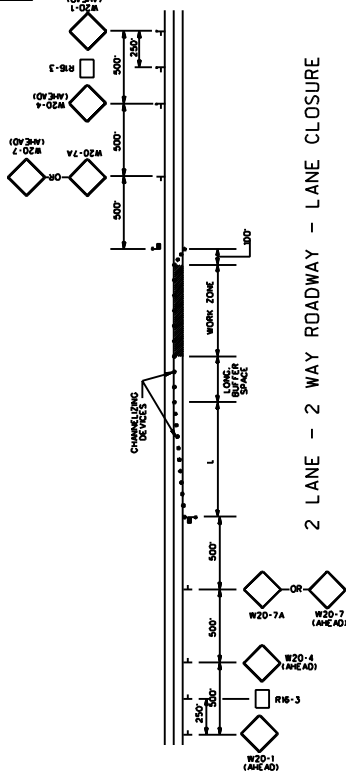
- 17 - W20-1 "AHEAD" signs required. One (1) W20-1 "AHEAD" sign is required at each local road or street entering the project.
- 12 - R4-1 "DO NOT PASS" signs required.
- 4 - R4-2 "PASS WITH CARE" signs required.
- 2 - W14-3 "NO PASSING ZONE" signs required.
- 14 - R16-3 "SPEEDING FINES DOUBLED" signs required.

R4-1 "DO NOT PASS", R4-2 "PASS WITH CARE", and W14-3 "NO PASSING ZONE" signs are required in accordance with Subsection 618.03.3, this drawing, and as specified in the Manual on Uniform Traffic Control Devices.

R16-3 signs shall be spaced in accordance with sheet titled "Location of R16-3 Signs".

All construction signs and barricades shown on this page shall be included in the bid price for Pay Item 618-A, Maintenance of Traffic. Fluorescent orange sheeting shall be used on all construction and traffic control signs except for R16-3, R4-1 and R4-2 signs which shall be black legend and border on white background.

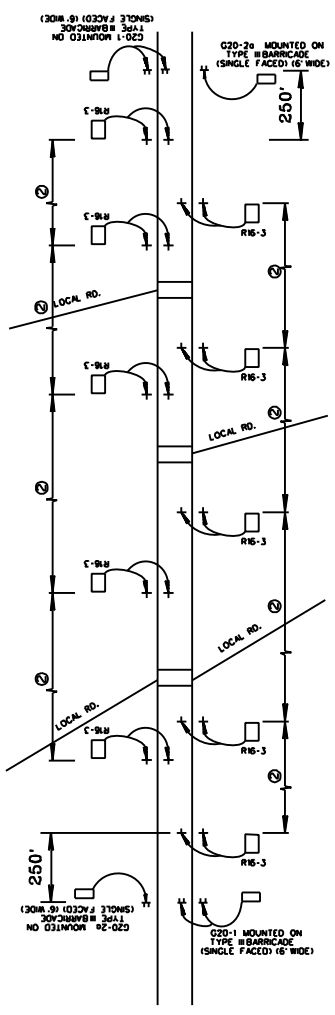
STATE PROJECT NO.
MISS.



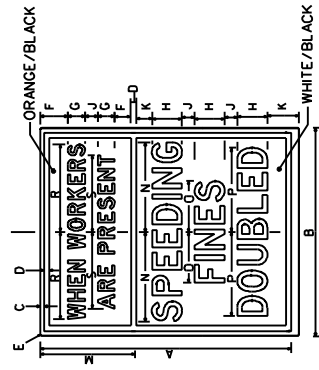
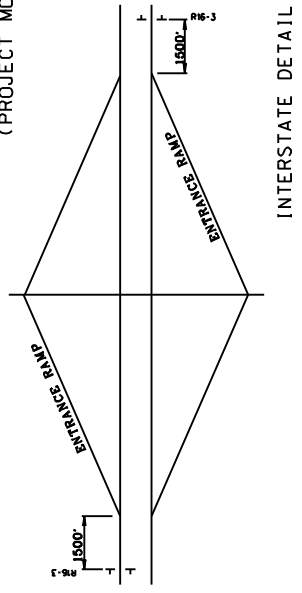
2 LANE - 2 WAY ROADWAY - LANE CLOSURE

DIVIDED HIGHWAY
(PROJECTS LESS THAN 1 MILE LENGTH)

- NOTES
- 1. R16-3 SIGN TO BE PLACED AS SHOWN OR AS DIRECTED BY THE ENGINEER.
 - 2. R16-3 SIGN SHALL BE SPACED AT A MAXIMUM OF 2 MILES THROUGHOUT LENGTH OF PROJECT.



DIVIDED HIGHWAY SHOWN
(2 LANE - 2 WAY ROADWAY SIMILAR)
(PROJECT MORE THAN 1 MILE LENGTH)



SIGN	DIMENSIONS (INCHES)													
STL	60	48	3/4	1/4	J	3/4	K	1 1/2	7 D	(INTERSTATE USE)				
STL	3	6 1/2	1 1/2	2 1/2	2 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
SIGN	DIMENSIONS (INCHES)													
STL	48	36	3/4	1/4	N	3/4	O	1 1/2	7 D	(ALL OTHER HIGHWAYS)				
STL	3	6 1/2	1 1/2	2 1/2	2 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2

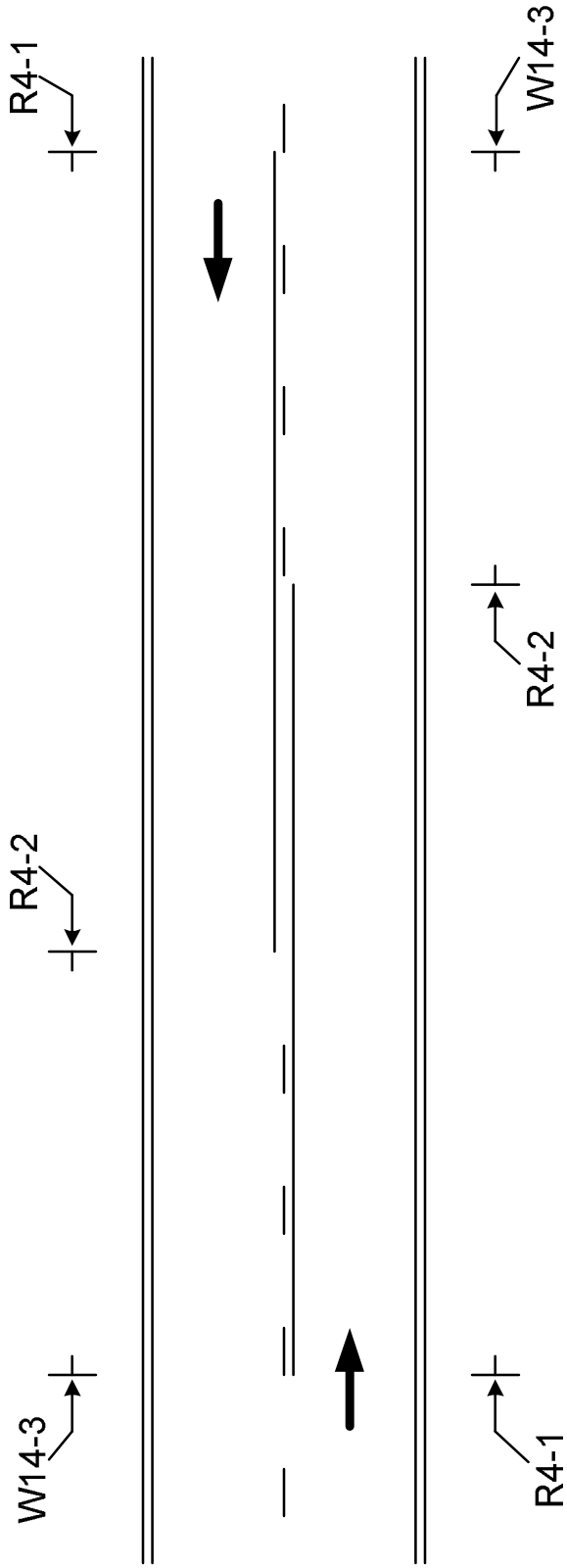
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

LOCATION OF R16-3 SIGNS

REVISION	BY	DATE

WORKING NUMBER
SHEET NUMBER

FILE NAME: SPEED_SIGN_DETAIL.DWG
CHECKED: DATE: 02/08/09



The W14-3, No Passing Zone sign, shall be placed on the left side of the road at the beginning of each no passing zone.

The R4-1, Do Not Pass signs, shall be placed on the right side of the road at the beginning of the no passing zone. Additional R4-1 signs shall be placed right and left in increments of 750 to 1000 feet throughout the length of the no passing zone.

The R4-2, Pass With Care sign, shall be placed on the right side of the road at the end of the no passing zone.

The R4-1, R4-2 and W14-3 signs are to be used when standard pavement markings are not in place. The signs may also be used to emphasize pavement markings.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-618-4

CODE: (SP)

DATE: 02/01/2018

SUBJECT: Additional Signing Requirements

Section 618, Maintenance of Traffic and Traffic Control Plan, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-618.01.2--Traffic Control Plan. At the end of Subsection 618.01.2 on page 441, add the following:

For compliance with the traffic control plan, the Contractor will be required to install and maintain traffic control devices at various locations throughout the project. Payment for these devices will be included in the price bid for pay item no. 618-A, Maintenance of Traffic per lump sum.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-619-6

CODE: (SP)

DATE: 03/21/2018

SUBJECT: Temporary Portable Rumble Strips

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. After Subsection 619.02.15 on page 472, add the following.

907-619.02.16--Temporary Portable Rumble Strips. Temporary portable rumble strips shall be RoadQuake manufactured by PSS and meet the following requirements:

- capable of being installed without adhesives or bolts,
- have a minimum weight of 100 pounds,
- have a minimum overall length of 11 feet,
- have a minimum width of 12 inches, and
- have a maximum height of 3/4 inch.

Temporary portable rumble strips shall be installed in accordance with the attached details, or as directed by the Engineer.

907-619.03--Construction Requirements. After Subsection 619.03.11 on page 476, add the following.

907-619.03.16--Temporary Portable Rumble Strips. Temporary portable rumble strips shall be placed at locations shown on the traffic control plans, attached drawing, or as directed by the Engineer. The rumble strips shall be removed when lane closures are removed, relocated when lane closures are relocated, or as directed by the Engineer.

Prior to placement of the rumble strips, the roadway shall be cleaned to be free of dust, sand, and other materials that may cause slippage. The minimum roadway temperature at the time of installation shall be in accordance with manufacturer recommendations.

A minimum of three (3) temporary portable rumble strips shall be arranged in an array. The spacing of temporary portable rumble strips in each array shall be on 15-foot centers. One array of three (3) strips shall be used in each lane. The rumble strips shall be regularly monitored and maintained to ensure they stay in place under traffic.

907-619.04--Method of Measurement. At the end of Subsection 619.04 on page 478, add the following.

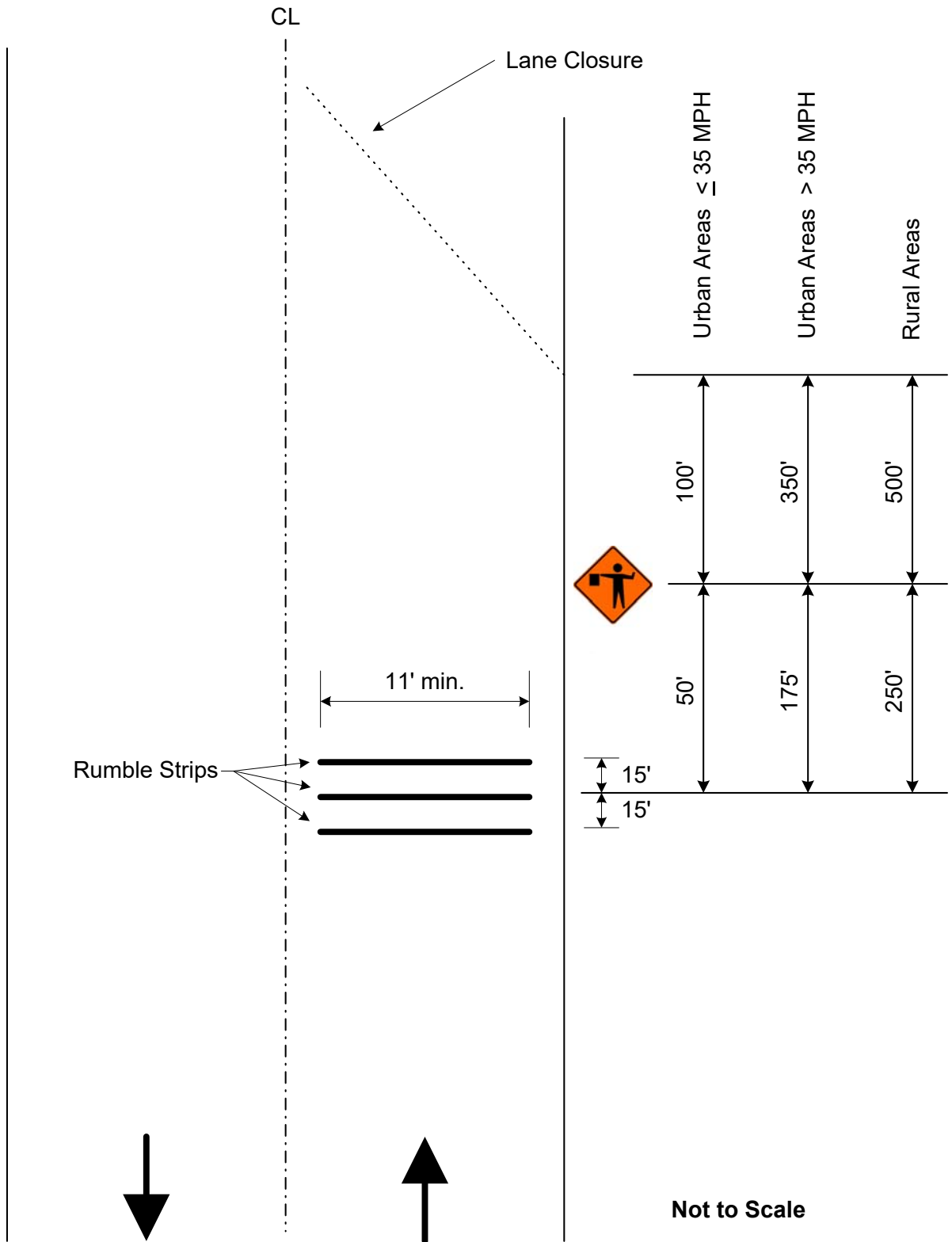
Temporary Portable Rumble Strips will be measured for payment by the linear foot only when a pay item for temporary portable rumble strips is included in the contract. Otherwise, temporary portable rumble strips will be included in the cost of pay item 618-A, Maintenance of Traffic. The quantity of temporary portable rumble strips will be the length of rumble strips approved by the Engineer to be in-place on the project at any one time.

907-619.05--Basis of Payment. After the fifth paragraph of Subsection 619.05 on page 478, add the following.

Temporary Portable Rumble Strips measured as prescribed above, will be paid for at the contract unit price per linear foot, which price shall be full compensation for cleaning the roadway surface, installing the rumble strips, maintenance and repair of the strips, cleaning and resetting of the strips, removal and replacement, and for all labor, equipment, tools, and incidentals necessary to complete the work.

After the last pay item listed on page 480, add the following.

907-619-B: Temporary Portable Rumble Strips - per linear foot



Not to Scale

Detail of Temporary Portable Rumble Strips

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-701-3

CODE: (IS)

DATE: 05/04/2021

SUBJECT: Hydraulic Cement

Section 701, Hydraulic Cement, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-701.01--General. In the first sentence of the second paragraph of Subsection 701.01 on page 718, change “mills” to “plants.”

In the second sentence of the sixth paragraph of Subsection 701.01 on pages 718 and 719, change “shall” to “will.”

907-701.02--Portland Cement.

907-701.02.1-General.

907-701.02.1.2--Alkali Content. Delete the sentence in Subsection 701.02.1.2 on page 719, and substitute the following.

When used in portland cement concrete, the total alkali contribution from all cement types in this Subsection shall not exceed 4.0 lb. per cubic yard of concrete calculated as follows:

$$\text{lb alkali per cu Yd} = \frac{(\text{lb cement per cu Yd}) \times (\% \text{Na}_2\text{O equivalent in cement})}{100}$$

In the above calculation, the maximum cement alkali content reported on the cement mill certificate shall be used. An example calculation can be found in the Department’s *Concrete Field Manual*.

907-701.02.2--Replacement by Other Cementitious Materials. Delete the paragraph in Subsection 701.02.2 on page 719, and substitute the following.

The maximum replacement of cement by weight is 25% for fly ash or 50% for ground granulated blast furnace slag (GGBFS). Replacement contents below 20% for fly ash or 45% for GGBFS may be used, but will not be given any special considerations, such as the maximum acceptance temperature for portland cement concrete containing pozzolans in Subsection 804.02.13.1.5. Special considerations shall only apply for replacement of cement by fly ash or GGBFS.

Delete Subsection 701.02.2.1 on pages 719 and 720, and substitute the following.

907-701.02.2.1--Portland Cement Concrete Exposed to Soluble Sulfate Conditions or Seawater.

When portland cement concrete is exposed to moderate or severe soluble sulfate conditions, or to seawater, cement types and replacement of cement by Class F fly ash or GGBFS shall be as follows in Table 1. Class C fly ash shall not be used as a replacement for cement in any of the sulfate exposure conditions listed in Table 1.

Table 1- Cementitious Materials for Soluble Sulfate Conditions or Seawater

Sulfate Exposure	Water-soluble sulfate (SO ₄) in soil, % by mass	Sulfate (SO ₄) in water, ppm	Cementitious material required
Moderate and Seawater	0.10 - 0.20	150 - 1,500	Type I cement with one of the following replacements of cement by weight: 24.5 - 25.0% Class F fly ash, or 49.5 - 50.0% GGBFS or Type II ^{**} cement
Severe	0.20 - 2.00	1,500 - 10,000	Type I cement with a replacement by weight of 49.5 - 50.0% GGBFS, or Type II [*] cement with one of the following replacements of cement by weight: 24.5 - 25.0% Class F fly ash, or 49.5 - 50.0% GGBFS

* Type III cement conforming to AASHTO M85 with a maximum 8% tricalcium aluminate (C₃A) may be used in lieu of Type II cement as allowed in Subsection 701.02.1; this cement is given the designation “Type III(MS).”

** Class F fly ash or GGBFS may be added as a replacement for cement as allowed in Subsection 907-701.02.2.

Delete Subsection 701.02.2.2 on page 720, and substitute the following.

907-701.02.2.2--Portland Cement for Soil Stabilization Exposed to Soluble Sulfate Conditions or Seawater. When portland cement for use in soil stabilization is exposed to moderate or severe soluble sulfate conditions, or to seawater, cement types and replacement of cement by Class F fly ash or GGBFS shall meet the requirements of Subsection 701.02.2.1.

907-701.04--Blended Hydraulic Cement.

907-701.04.1--General. Delete Subsection 701.04.1.1 on page 720, and substitute the following.

907-701.04.1.1--Types of Blended Hydraulic Cement. Blended hydraulic cements (blended cements) shall be of the following types and conform to AASHTO M 240:

- Type II – Portland-limestone cement
- Type IP – Portland-pozzolan cement
- Type IS – Portland blast-furnace slag cement

Blended cement Types II, IP, and IS meeting the “MS” sulfate resistance requirement listed in AASHTO M 240, Table 3 shall have the “(MS)” suffix added to the type designation.

907-701.04.1.2--Alkali Content. Delete the sentence in Subsection 701.04.1.2 on page 720, and substitute the following.

All blended cement types shall be made with clinker that would result in cement meeting the requirements of Subsection 701.02.1.2 when used in the production of AASHTO M 85, Type I or Type II cement.

The blended cement manufacturer shall include the percent equivalent alkalis as Na₂O on their cement mill reports.

When calculating the total alkali contribution with blended cements, use the equivalent alkali content of the base portland cement. An example calculation for cases where blended cements are used can be found in the Department’s *Concrete Field Manual*.

907-701.04.2--Replacement by Other Cementitious Materials. Delete the paragraph in Subsection 701.04.2 on page 720, and substitute the following.

The maximum replacement of blended cement Type II by weight is 35% for fly ash or 50% for GGBFS. Replacement contents below 20% for fly ash or 45% for GGBFS may be used, but will not be given any special considerations, such as the maximum acceptance temperature for blended cement concrete containing pozzolans in Subsection 804.02.13.1.5. Special considerations shall only apply for replacement of blended cement by fly ash or GGBFS.

No additional cementitious materials, such as portland cement, blended cement, fly ash, GGBFS, or others, shall be added to or as a replacement for blended cement Types IP and IS.

Delete Subsection 701.04.2.1 on pages 720 and 721, and substitute the following.

907-701.04.2.1--Blended Cement Concrete Exposed to Soluble Sulfate Conditions or Seawater. When blended cement concrete is exposed to moderate or severe soluble sulfate conditions, or to seawater, cement types and replacement of cement by Class F fly ash or GGBFS shall be as follows in Table 2. Class C fly ash shall not be used as a replacement for cement in any of the sulfate exposure conditions listed in Table 2.

Table 2- Cementitious Materials for Soluble Sulfate Conditions or Seawater

Sulfate Exposure	Water-soluble sulfate (SO ₄) in soil, % by mass	Sulfate (SO ₄) in water, ppm	Cementitious material required
Moderate and Seawater	0.10 - 0.20	150 - 1,500	Type IL (MS) * cement, Type IL cement with one of the following replacements of cement by weight: 24.5 - 35.0% Class F fly ash, or 49.5 - 50.0% GGBFS, Type IP (MS) cement, or Type IS (MS) cement
Severe	0.20 - 2.00	1,500 - 10,000	Type IL cement with a replacement of cement by weight of 49.5 - 50.0% GGBFS, or Type IL (MS) cement with one of following replacements of cement by weight: 24.5 - 35.0% Class F fly ash, or 49.5 - 50.0% GGBFS

* Class F fly ash or GGBFS may be added as a replacement for cement as allowed in Subsection 907-701.04.2.

Delete Subsection 701.04.2.2 on page 721, and substitute the following.

907-701.04.2.2--Blended Cement for Soil Stabilization Exposed to Soluble Sulfate Conditions or Seawater. When blended cement for use in soil stabilization is exposed to moderate or severe soluble sulfate conditions, or to seawater, cement types and replacement of cement by Class F fly ash or GGBFS shall meet the requirements of Subsection 701.04.2.1.

Delete Subsection 701.04.3 on page 721.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-702-4

CODE: (IS)

DATE: 09/11/2018

SUBJECT: Bituminous Materials

Section 702, Bituminous Materials, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-702.04--Sampling. Delete the sentence in Subsection 702.04 on page 722, and substitute the following.

Sampling of bituminous materials shall be as set out in AASHTO R 66.

907-702.07--Emulsified Asphalt. Delete the last sentence in Subsection 702.07 on page 724, and substitute the following.

Asphalt for fog seal shall conform to the requirements of Subsection 907-702.12, Table V.

907-702.12--Tables. Delete Table V in Subsection 702.12 on page 729, and substitute the following.

**TABLE V
SPECIFICATION FOR FOG SEAL**

Test Requirements	LD-7		CHPF-1		Test Method
	Min.	Max.	Min.	Max.	
Viscosity, Saybolt Furol, @ 25°C, Sec.	10	100	-	100	AASHTO T 72
Storage Stability Test, 24 hr, %	-	1	-	1	AASHTO T 59
Settlement, 5 day, %	-	5	-	-	AASHTO T 59
Oil Distillate, %	-	1	-	-	AASHTO T 59
Sieve Test, % *	-	0.3	-	0.1	AASHTO T 59
Residue by Distillation, %	40	-	40	-	AASHTO T 59
Test on Residue from Distillation					
Penetration @ 25°C, 100g, 5 sec	-	20	40	90	AASHTO T 49
Softening Point, °C	65	-	-	-	ASTM D 36
Solubility in trichloroethylene, %	97.5	-	-	-	AASHTO T 44
Elastic Recovery @ 25°C, %	-	-	40	-	AASHTO T 301
Original DSR @ 82° (G*/Sinδ, 10 rad/sec)	1	-	-	-	AASHTO T 111

* The Sieve Test result is tested for reporting purposes only and may be waived if no application problems are present in the field.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-703-2

CODE: (SP)

DATE: 11/29/2022

SUBJECT: Gradation

Section 703, Aggregates, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-703.03--Coarse Aggregates for Hydraulic Cement Concrete.

907-703.03.2--Detail Requirements.

907-703.03.2.4--Gradation. In the table in Subsection 703.03.2.4 on page 734, add 100 for the percent passing by weight on the 1½-inch sieve for Size No. 67 aggregates.

Delete Note 2 under the table in Subsection 703.03.2.4 on page 734, and substitute the following.

Note ² – 100 percent shall pass the 1-inch sieve for Size 67 used in Class F and Class FX concrete.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-705-1

CODE: (IS)

DATE: 06/13/2018

SUBJECT: Stone Riprap

Section 705, Stone Blanket Protection and Filter Blanket Materials, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-705.04--Stone Riprap. Delete the last sentence of the first paragraph of Subsection 705.04 on page 750, and substitute the following.

Quality requirements for rock to be furnished under these specifications will come from a pre-approved source and be visually approved prior to use.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-707-3

CODE: (IS)

DATE: 10/27/2021

SUBJECT: Joint Materials

Section 707, Joint Materials, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-707.02--Joint Filler.

907-707.02.2--Preformed Sponge, Rubber, Cork and Closed-Cell Polypropylene Foam Joint Fillers for concrete Paving and Structural Constructions. Delete the two paragraphs of Subsection 707.02.2 on page 755, and substitute the following.

Preformed joint filler shall conform to AASHTO M 153 for sponge, rubber, and cork and tested according to ASTM D545. The type required will be indicated on the plans.

Closed-cell polypropylene foam shall conform to the requirements in ASTM D8139 and tested in accordance with ASTM D545.

907-707.02.3--Wood. Delete paragraph (b) of Subsection 707.02.3 on page 755, and substitute the following:

- (b) Dimensions shall be as shown on the plans. Dimensions shown on the plans are “dressed” sizes in accordance with Table 3 of the American Softwood Lumber Standard, SP-20. At the discretion of the Engineer, a 3/4-inch dressed board may be used in lieu of a 1-inch dressed board. A tolerance of plus or minus 1/16 inch thickness and plus or minus 1/8 inch width will be permitted. For slip-form paving a tolerance of minus 1/4 inch on each end in length will be permitted.

907-707.06--Flexible Plastic Gasket for Joining Conduit. Delete the third paragraph of Subsection 707.06 on page 756, and substitute the following.

The Department may require the performance test described in ASTM C 990.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-711-2

CODE: (IS)

DATE: 09/11/2018

SUBJECT: Plain Steel Wire

Section 711, Reinforcement and Wire Rope, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-711.02--Deformed and Plain Carbon-Steel Bars for Concrete Reinforcing.

907-711.02.3--Steel Welded and Non-Welded Wire Reinforcement, Plain and Deformed, for Concrete.

907-711.02.3.1--Plain Steel Wire. Delete the sentence in Subsection 711.02.3.1 on pages 780 and 781, and substitute the following.

Plain steel wire and plain steel welded wire shall conform to the requirements of AASHTO M 336.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-712-1

CODE: (SP)

DATE: 12/07/2021

SUBJECT: Fence and Guardrail

Section 712, Fence and Guardrail, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-712.01--General. After the sentence in Subsection 712.01 on page 785, add the following.

All materials' inspection, testing, and certification will be performed in accordance with the requirements of the current version of the Department's *Materials Division Inspection, Testing, and Certification Manual*.

Delete Subsections 712.02 and 712.03 on page 785, and substitute the following.

907-712.02--Barbed Wire. Barbed wire shall conform to the requirements of AASHTO M 280. In the coastal counties of Hancock, Harrison, and Jackson, either Coating Type Z Class 3 or Coating Type A shall be furnished. In all other areas of the State, either Coating Type Z Class 1, Coating Type Z Class 3, Coating Type ZA Class 60, or Coating Type A shall be furnished.

907-712.03--Metallic-Coated, Steel Woven Wire Fence Fabric. Woven wire fencing (i.e., "hog wire") shall conform to the requirements of AASHTO M 279. In the coastal counties of Hancock, Harrison, and Jackson, either Coating Type Z Class 3 or Coating Type A shall be furnished. In all other areas of the State, either Coating Type Z Class 1, Coating Type Z Class 3, Coating Type ZA Class 60, or Coating Type A shall be furnished.

907-712.04--Chain Link Fence. Delete Subsections 712.04.1 thru 712.04.7 on pages 785 & 786, and substitute the following.

907-712.04.1--Fabric. In the coastal counties of Hancock, Harrison, and Jackson, either Type I Class D, Type II, Type III, or Type IV fabrics shall be furnished. In all other areas of the State, either Type I Class C, Type I Class D, Type II, Type III, or Type IV fabrics shall be furnished.

907-712.04.2--Tie Wire. Tie wire shall be of the same material as the fencing wire being used, shall be of good commercial quality, and shall meet the requirements of AASHTO M 181. Either Type I, Type II, Type III, or Type IV tie wire shall be furnished.

907-712.04.3--Tension Wire. Tension wire shall be of the same material as the fencing wire being used, shall be of good commercial quality, and shall meet the requirements of AASHTO M 181. In the coastal counties of Hancock, Harrison, and Jackson, either Type I Class 3, Type II, Type III, or Type IV tension shall be furnished. In all other areas of the State, either Type II, Type III, Type IV, or Type I Classes 1, 2, or 3 tension wires shall be furnished.

907-712.04.4--Posts Rails, Gate Frames, and Expansion Sleeves. Posts, rails, gate frames, and expansion sleeves shall conform to the requirements for posts in Subsection 712.05.2, unless otherwise designated in the contract.

907-712.04.5--Miscellaneous Fittings and Hardware. Miscellaneous fittings and hardware shall conform to the requirements of Subsection 712.16.

907-712.05--Fence Posts and Braces.

907-712.05.1--Treated Timber Posts and Braces.

907-712.05.1.1--General. Delete the third, fourth, fifth, and sixth paragraphs of Subsection 712.05.1.1 on page 787, and substitute the following.

All wood posts and braces shall be treated in accordance with Subsections 718.03 and 718.04.

907-712.05.1.2--Round Posts. Delete the last sentence of the last paragraph of Subsection 712.05.1.2 on page 788.

907-712.05.1.3--Sawed Posts. Delete the last sentence of the paragraph of Subsection 712.05.1.3 on page 788.

907-712.05.1.4--Sawed Braces. Delete the last sentence of the paragraph of Subsection 712.05.1.4 on page 788.

Delete Subsection 712.05.2 on page 788, and substitute the following.

907-712.05.2--Metal Posts.

907-712.05.2.1--Round Steel Pipe. Round steel pipe shall meet the requirements of AASHTO M 181, either Grade 1 (i.e., meeting the requirements in ASTM F 1083) or Grade 2 (i.e., meeting the requirements of ASTM F 1043).

Round steel pipe shall be sized in accordance with NPS (nominal pipe size) designations as shown on Plans, and not according to the outer or inner pipe diameter.

907-712.05.2.2--Steel Fence Post and Assemblies, Hot-Wrought. Steel posts with the following section shapes, Tee, channel or U, and Y-Bar shall meet the requirements of AASHTO M 281, galvanized in accordance with the requirements of AASHTO M 111, unless otherwise specified in the contract. Acceptance of these steel posts shall be by certification from the manufacturer, producer, supplier, or fabricator, as applicable.

907-712.05.2.3--Blank.

907-712.05.2.4--Steel H-Beam Posts. Steel H-Beam posts shall be produced from structural quality weldable steel having a minimum yield strength of 45,000 psi and shall be galvanized in accordance with ASTM A 123. Steel H-Beam line posts shall be 2.250 inches by 1.625 inches and shall weigh 3.43 pounds per foot. A tolerance of plus or minus 5.0 percent is allowed for

weight per foot. A tolerance of plus or minus 1.0 percent is allowed for dimensions.

907-712.05.2.5--Aluminum-Alloy Posts and Assemblies. Round aluminum-alloy posts shall meet the requirements of ASTM B 241, Alloy 6061, T6. Aluminum-Alloy H-Beam posts shall meet the requirements of ASTM B 221, Alloy 6061, T6.

907-712.05.2.6--Formed Steel Section Posts. Formed steel section posts, "C" sections, shall be formed from sheet steel conforming to ASTM A 1011, Grade 45, and shall be galvanized in accordance with ASTM A 123.

907-712.06--Guard and Guardrail Posts.

907-712.06.2--Treated Wood Posts.

907-712.06.2.1--Square Posts. Delete the paragraph in Subsection 712.06.2.1 on page 789, and substitute the following.

All square posts shall be inspected for conformance with Section 712.05, except that the posts may be rough and shall be within $\pm 3/8$ " of the dimensions shown on the plans.

907-712.06.2.2--Round Posts. Delete the paragraph in Subsection 712.06.2.2 on page 789, and substitute the following.

All round posts shall be inspected for conformance with Section 712.05, except that the posts shall be of the shape and dimensions shown on the plans.

907-712.06.5--Treated Wood Blocks for Use with Metal Guardrail Posts. Delete the paragraphs of Subsection 712.06.5 on pages 789 & 790, and substitute the following.

Treated wood blocks for use with metal guardrail posts shall be within $\pm 3/8$ " of the size and dimensions shown on the plans, except that a minus tolerance shall not be allowed for the slotted width in which the metal post must fit.

Delete Subsection 712.16 on page 791, and substitute the following.

907-712.16--Hardware. All ferrous metal hardware for fencing such as bolts, nuts, washers, and metal straps shall be as specified on the plans and galvanizing shall not be less than 1.0 ounce per square foot of uncoated area. Aluminum coated hardware shall be coated with aluminum meeting the requirements of AASHTO M 181 for aluminum coating and at the rate of not less than 0.4 ounces per square foot of uncoated area.

Aluminum alloy hardware shall conform to the requirements of ASTM B 221 for extruded aluminum alloy 6063, T6. The finished members shall be of uniform quality.

Aluminum-zinc coated hardware shall be coated with an aluminum-zinc alloy meeting the chemical requirements and weight of coating specified for aluminum-zinc alloy coated metal gates.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-714-3

CODE: (SP)

DATE: 08/31/2021

SUBJECT: Miscellaneous Materials

Section 714, Miscellaneous Materials, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-714.01--Water.

907-714.01.1--General. Delete the last sentence of the second paragraph in Subsection 714.01.1 on page 794.

907-714.01.2--Water for Use in Concrete. Delete Subsection 714.01.2 on page 794, and substitute the following:

Water from municipal sources is permitted be used as mixing water in concrete, mortar, and grout without Department testing. Water from non-municipal water sources used in mixing of concrete, mortar, and grout which does not meet the requirements in Subsection 714.01.1 shall be tested for conformance as required in AASHTO M157, Table 1 and Table 2.

907-714.01.3--Water for Use in Chemically Stabilized Based. Delete the first sentence of first paragraph in Subsection 714.01.3 on page 794, and substitute the following:

Water used in the construction of bases that contain cement, lime, or other chemical additive shall be as set out in Subsection 714.01.1. Water from municipal sources is permitted to be used without testing for conformance to the requirements below. If water is not from a municipal source, it shall not contain impurities in excess of the following limits:

Delete Subsection 714.01.6 on page 795, and substitute the following.

907-714.01.6--Blank.

907-714.05--Fly Ash.

907-714.05.1--General. Delete the first sentence of the fifth paragraph in Subsection 714.05.1 on page 797.

907-714.13--Geotextiles.

907-714.13.11--Tables. Delete Table 1 in Subsection 714.13.11 on page 813, and substitute the following.

Table 1 - Geotextiles

Type Designation	I ¹ Sediment Control	II ¹ Control	III Drainage	IV Paving	V Separation & Drainage		VI Separation, Stabilization & Reinforcement		VIII High Strength	IX High Strength	Test Method
					Woven	Non-Woven	Woven	Non-Woven			
Grab Strength (lb)	50	90	110	90	200	280	180	450	280	280	ASTM D 4632
Elongation (%)	----	50% max @ 45 lb	20% min	50% min @ break	50% min	50% max	50% min	50% max	50% min	50% min	ASTM D 4632
Seam Strength (lb)	----	----	70	----	180	240	160	400	240	240	ASTM D 4632
Puncture Strength (lb)	----	----	40	----	80	110	75	180	115	115	ASTM D 6241
Trapezoidal Tear (lb)	----	----	40	----	80	100	70	150	100	100	ASTM D 4533
Asphalt Retention (gal/yd ²)	----	----	----	0.2	----	----	----	----	----	----	ASTM D 6140
Permittivity (sec ⁻¹) min	0.05	0.05	0.5	----	0.2	0.2	0.2	0.2	0.2	0.2	ASTM D 4491
AOS Woven (mm) max	0.60	0.60	0.6	----	0.6	0.43	----	0.43	----	----	ASTM D 4751
AOS Non-Woven (mm) max	0.84	0.84	0.43	----	0.43	----	0.43	----	0.43	0.43	----
Tensile Strength after UV (% Retained)	70% @ 500 hr	70% @ 500 hr	50% @ 500 hr	----	50% @ 500 hr	50% @ 500 hr	50% @ 500 hr	50% @ 500 hr	50% @ 500 hr	50% @ 500 hr	ASTM D 4355
Melting Point °(F)	----	----	----	325	----	----	----	----	----	----	ASTM D 276
Minimum Ultimate Tensile Strength ³ (lb/in)	----	----	----	----	----	----	----	----	660	2000	ASTM D 4595

Notes: 1 - All property values, with the exception of apparent opening size (AOS), represent minimum average roll values in the weakest principal direction. Values for AOS represent the maximum average roll values, 2 - Values not identified in this table should meet manufacturer certification for the use and application, 3 - Machine direction

Delete Subsection 714.15 on pages 816 and 817 and substitute the following.

907-714.15--Geogrids.

907-714.15.1--General. A geogrid is defined as a geosynthetic formed by a regular network of connected elements with apertures greater than 0.25 inch to allow interlocking with surrounding soil, rock, and other surrounding materials to function primarily as reinforcement.

Geogrid shall be manufactured from an expanded strain hardened monolithic polymer sheet composed of one or more synthetic polymers and shall be mildew resistant and inert to biological degradation and naturally encountered chemicals, alkalis and acids. The geogrid shall contain stabilizers and/or inhibitors, or a resistance finish or covering to make it resistant to deterioration from direct sunlight, ultraviolet rays, and heat.

Geogrid manufacturers shall participate in and be in compliance with the American Association of State Highway Transportation Officials (AASHTO) National Transportation Product Evaluation Program's (NTPEP) Geosynthetics audit program. Geogrid shall meet the requirements of Table II for the application and type shown on the plans and shall be selected from the Department's Approved Lists.

907-714.15.1.1--Geogrid for Retaining Walls and Reinforced Soil Slopes. Geogrid for retaining walls and reinforced soil slopes shall be creep tested in accordance with AASHTO R69 and meet Long Term Design Load, Minimum Ultimate Tensile Strength, and open area criteria listed in Table II. Manufacturers shall perform at least one long-term creep test for no less than 10,000 hours in accordance to ASTM D 5262 for each polymer or composition of polymers from which the geogrid is produced. The long-term design load that shall be reported for design use, shall be that load at which no more than 10% strain occurs over a 100-year design life of the geogrid, as calculated in accordance with AASHTO R69. Long-term design loads shall be reported unfactored, and the AASHTO strength reduction factors (Durability and Installation, and safety factors) will be considered by the Department's Geotechnical Branch on a site specific design basis.

907-714.15.1.2--Geogrid for Subgrade Stabilization. Geogrid for subgrade stabilization shall meet Minimum Ultimate Tensile Strength and open area criteria listed in Table II.

907-714.15.2--Marking, Shipment, and Storage. Each roll or container of geogrid shall be visibly labeled with the name of the manufacturer, trade name of the product, lot number, and quantity of material. In addition, each roll or container shall be clearly tagged to show the type designation that corresponds to that required by the plans. During shipment and storage the geogrid shall be protected from direct sunlight, and temperatures above 120°F or below 0°F. The geogrid shall either be wrapped and maintained in a heavy duty protective covering or stored in a safe enclosed area to protect from damage during prolonged storage.

907-714.15.3--Manufacturer Certification. The Contractor shall furnish the Engineer three copies of the manufacturer's certified test reports indicating that the geogrid furnished conforms to the requirements of the specifications and is of the same composition as the originally approved

by the Department.

907-714.15.4--Acceptance Sampling and Testing. Final acceptance of each shipment will be based upon results of tests performed by the Department on verification samples submitted from the project, as compared to the manufacturer's certified test reports. The Engineer will select one roll or container at random from each shipment for sampling. As sample extending full width of the randomly selected roll or container and being at least five (5) square yards in area will be obtained and submitted by the Engineer. All material samples shall be provided at no cost to the State.

**TABLE II
GEOGRIDS**

Physical Properties	Type Designation						Test Method
	I	II	III	IV	V	VI	
Long Term Design Load ¹ , pounds per foot, Machine Direction	250	500	750	1500	2500	3500	AASHTO R69, ASTM D5262
Minimum Ultimate Tensile Strength ² , pounds per foot, Machine Direction	500	1000	1500	3000	5000	7000	ASTM D6637
Open Area, percent	70	70	50	50	50	50	Direct Measurement

¹ Minimum design criteria requirement.
² Minimum Average Roll Value (MARV).

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-718-1

CODE: (SP)

DATE: 12/07/2021

SUBJECT: Timber and Dimension Lumber

Section 718, Timber and Dimension Lumber, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

Delete the Subsections in Section 718 on pages 836 thru 838, and substitute the following.

907-718.01--General. All timber and dimension lumber shall be Southern pine and shall conform in all respects to applicable requirements of AASHTO M 168. The Department reserves the right to sample and to test all materials at any time; all inspection, testing, and certification of materials will be performed in accordance with the requirements of the current version of the Department's *Materials Division Inspection, Testing, and Certification Manual*.

Timber and dimension lumber shall be furnished in the sizes shown on the plans or as specified. Unless otherwise specified, timber and dimension lumber shall be No. 1, or better, graded according to the latest American Lumber Standards.

Only one type of preservative shall be used for the treatment of materials for any one class of construction on a project, unless otherwise specified.

Where treated timber and dimensional lumber is to be used in non-highway construction or use, such as decking, handrails in walking trails, or in any manner where general public exposure by touch is possible, the treatment requirements will be as per project plans and/or approved by the State Materials Engineer.

907-718.02--Untreated Timber and Dimension Lumber. Untreated timber and dimension lumber shall conform to the requirements of AASHTO M 168.

907-718.03--Treated Timber and Dimension Lumber. Timber and dimension lumber to be treated shall meet the requirements herein specified and shall be treated as specified. Treated timber or dimensional lumber will not be accepted for use unless it has been inspected by an authorized representative of the Department and found to be satisfactory after treatment.

907-718.03.1--Blank.

907-718.03.2--Treatment.

907-718.03.2.1--General. All materials shall be treated in accordance with AASHTO M 133 unless otherwise directed by the Environmental Protection Agency (EPA).

907-718.03.2.2--Blank.

907-718.03.2.3--Inspection. Treated timber and dimension lumber shall be inspected by an authorized representative of the Department before being incorporated into the work. Treatment reports shall be provided to the Department for each lot of material supplied.

907-718.03.3--Blank.

907-718.03.4--Storage of Treated Material. All material treated for stock shall be stacked as compactly as possible on a well-drained surface. Material shall be supported on sills spaced as necessary, not to exceed 10 foot intervals and shall have at least one foot of air space beneath the stacks.

All materials treated with preservatives for use in buildings and applications where painting is required shall be dried after treatment. The treated wood shall be dried in accordance with American Lumber Standards.

907-718.04--Preservative. Preservatives shall be as specified in AASHTO M 133 unless otherwise directed by the Environmental Protection Agency (EPA).

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-720-2

CODE: (IS)

DATE: 09/11/2018

SUBJECT: Acceptance Procedure for Glass Beads

Section 720, Pavement Marking Materials, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-720.01--Glass Beads.

907-720.01.4--Acceptance Procedures. Delete the last sentence of the paragraph in Subsection 720.01.4 on page 841, and substitute the following.

Acceptance sampling and testing of glass beads will be in accordance with the Department's Materials Division Inspection, Testing, and Certification Manual, Section 2.9.2 -- Glass Beads.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-721-4

CODE: (IS)

DATE: 04/19/2022

SUBJECT: Materials for Signing

Section 721, Materials for Signing, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-721.06--Reflective Sheeting.

907-721.06.2--Performance Requirements. Delete Table 4 and Table 5 in Subsection 721.06.2 on pages 860 & 861, and substitute the following.

MINIMUM COEFFICIENTS OF RETROREFLECTION
Candela per foot candle per square foot (cd/ft²)
Per ASTM Designation D4956

TABLE 4
Type IX Sheeting

Table with 10 columns: Observation Angle, Entrance Angle, White, Yellow, Green, Red, Blue, Fluorescent Yellow/Green, Fluorescent Yellow, Fluorescent Orange. Rows show values for angles 0.2, 0.5, 1.0 degrees at entrance angles -4.0 and +30.0 degrees.

TABLE 5
Type XI Sheeting

Table with 11 columns: Observation Angle, Entrance Angle, White, Yellow, Green, Red, Blue, Brown, Fluorescent Yellow/Green, Fluorescent Yellow, Fluorescent Orange. Rows show values for angles 0.2, 0.5, 1.0 degrees at entrance angles -4.0 and +30.0 degrees.

After Subsection 721.10 on page 864, add the following.

907-721.11--Digital Applied Printing. The following addresses the requirements for digitally printed finished retroreflective traffic control signs on flat sheet aluminum and digitally printed traffic sign faces intended to be applied to a sign substrate.

907-721.11.1--Digitally Printed Ink Systems. Traffic signs must be produced using components, and processes that comply with the retroreflective sheeting manufacturer’s recommendations.

Digital printed ink systems used to print traffic signs must meet and comply with daytime and nighttime chromaticity (color standards) as recognized in ASTM D4956 “Standard Specification for Retroreflective Sheeting for Traffic Control.”

Digital printed ink systems must meet 70% of the initial retroreflectivity specifications of each respective reflective film color as found in ASTM D4956 “Standard Specification for Retroreflective Sheeting for Traffic Control.”

Prior to fabrication and preferably at the preconstruction meeting, the Contractor shall advise the Project Engineer in writing as to which signs on the project will be digitally printed and which ones will be screen printed. The Contractor shall submit to the Project Engineer certifications for all digitally printed signs, which will be forwarded to the State Traffic Engineer for review.

907-721.11.2--Protective Overlay Film. Permanent traffic signs printed with digital ink systems will be fabricated with a full sign protective overlay film designed to provide a smooth surface needed for retroreflectivity, and to protect the sign from fading and UV degradation. The overlamine shall comply with the retroreflective sheeting manufacturer’s recommendations to ensure proper adhesion and transparency and will also meet the reflective film durability as identified in Table 1.

**Table 1
Retroreflective Film Minimum Durability Requirements**

ASTM D4956 Type	Full Sign Replacement Term (years)	Sheeting Replacement Term (years)
IV	7	10
VIII	7	10
IX	7	12
XI	7	12

Temporary signs used in work zones printed with black ink only will not require a protective overlay film as long as the finished sign is warranted for a minimum outdoor durability of three years by the sheeting manufacturer.

907-721.11.3--Inspection. During fabrication, the Contractor shall provide sufficient testing and quality control throughout fabrication to insure good workmanship. Once the material has been received, it may be subject to random testing to ensure compliance with all requirements. If any test samples do not conform to the requirements, the entire order may be returned at the vendor’s expense.

907-721.11.4--Traffic Sign Performance Warranty Provisions. Based on the ASTM Type of sheeting specified, traffic control signs shall be warranted for the duration shown in Table 1. The Contractor shall supply a copy of the warranty document with complete details of terms and conditions upon request of the Department.

907-721.11.5--Certified Digital Sign Fabricator. Sign fabricators using digital imaging methods to produce regulated traffic signs must be certified by the reflective sheeting manufacturer whose materials are used to produce the delivered signs.

Certified sign fabricators must undergo an audit process by the sheeting manufacturer to ensure they have the proper equipment, manufacturing capabilities, manufacturing application processes and the materials required to fulfill the sheeting manufacturer's warranty obligations. Sign fabricators must recertify annually with reflective sheeting manufacturers or utilize a 3rd party certifier approved by the reflective sheeting manufacturer.

The Contractor shall submit proof of Sign Fabricator Certification as issued by the retroreflective sign sheeting manufacturer to the Project Engineer upon delivery of the signs, or with the Shop Drawings.

SECTION 905 - PROPOSAL

Date _____

Mississippi Transportation Commission
Jackson, Mississippi

Sirs: The following proposal is made on behalf of _____
_____ of _____

for constructing the following designated project(s) within the time(s) hereinafter specified.

The plans are composed of drawings and blue prints on file in the offices of the Mississippi Department of Transportation, Jackson, Mississippi.

The Specifications are the current Standard Specifications of the Mississippi Department of Transportation approved by the Federal Highway Administration, except where superseded or amended by the plans, Special Provisions and Notice(s) to Bidders attached hereto and made a part thereof.

I (We) certify that I (we) possess a copy of said Standard and any Supplemental Specifications.

Evidence of my (our) authority to submit the Proposal is hereby furnished. The proposal is made without collusion on the part of any person, firm or corporation. I (We) certify that I (we) have carefully examined the Plans, the Specifications, including the Special Provisions and Notice(s) to Bidders, herein, and have personally examined the site of the work. On the basis of the Specifications, Special Provisions, Notice(s) to Bidders, and Plans, I (we) propose to furnish all necessary machinery, tools, apparatus and other means of construction and do all the work and furnish all the materials in the manner specified. I (We) understand that the quantities mentioned herein are approximate only and are subject to either increase or decrease, and hereby propose to perform any increased or decreased quantities of work at the unit prices bid, in accordance with the above.

I (We) acknowledge that this proposal will be found irregular and/or non-responsive unless a certified check, cashier's check, or Proposal Guaranty Bond in the amount as required in the Advertisement (or, by law) is submitted electronically with the proposal or is delivered to the Contract Administration Engineer prior to the bid opening time specified in the advertisement.

INSTRUCTION TO BIDDERS: Alternate and Optional Items on Bid Schedule.

1. Two or more items entered opposite a single unit quantity WITHOUT DEFINITE DESIGNATION AS "ALTERNATE ITEMS" are considered as "OPTIONAL ITEMS". Bidders may or may not indicate on bids the Optional Item proposed to be furnished or performed WITHOUT PREJUDICE IN REGARD TO IRREGULARITY OF BIDS.
2. Items classified on the bid schedule as "ALTERNATE ITEMS" and/or "ALTERNATE TYPES OF CONSTRUCTION" must be preselected and indicated on bids. However, "Alternate Types of Construction" may include Optional Items to be treated as set out in Paragraph 1, above.
3. Optional items not preselected and indicated on the bid schedule MUST be designated in accordance with Subsection 102.06 prior to or at the time of execution of the contract.
4. Optional and Alternate items designated must be used throughout the project.

I (We) further propose to perform all "force account or extra work" that may be required of me (us) on the basis provided in the Specifications and to give such work my (our) personal attention in order to see that it is economically performed.

I (We) further propose to execute the attached contract agreement (Section 902) as soon as the work is awarded to me (us), and to begin and complete the work within the time limit(s) provided for in the Specifications and Advertisement. I (We) also propose to execute the attached contract bond (Section 903) in an amount not less than one hundred (100) percent of the total of my (our) part, but also to guarantee the excellence of both workmanship and materials until the work is finally accepted.

I (We) shall submit electronically with our proposal or deliver prior to the bid opening time a certified check, cashier's check or bid bond for **five percent (5%) of total bid** and hereby agree that in case of my (our) failure to execute the contract and furnish bond within Ten (10) days after notice of award, the amount of this check (bid bond) will be forfeited to the State of Mississippi as liquidated damages arising out of my (our) failure to execute the contract as proposed. It is understood that in case I am (we are) not awarded the work, the check will be returned as provided in the Specifications.

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.

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.

Mill & Overlay approximately 12 miles of SR 7 from 2 miles south of Morgan City to Itta Bena, known as State Project No. MP-2007-42(010) / 308294301 in Leflore County.

Line no.	Item Code	Adj Code	Quantity	Units	Description[Fixed Unit Price]
Roadway Items					
0010	201-B001		1	Acre	Clearing and Grubbing
0020	202-B007		1,340	Square Yard	Removal of Asphalt Pavement, All Depths
0030	202-B069		955	Square Yard	Removal of Concrete Pavement w/ Variable Depth Overlay
0040	202-B215		63	Each	Removal of Sign Including Post & Footing
0050	202-B240		693	Linear Feet	Removal of Traffic Stripe
0060	203-G001	(E)	100	Cubic Yard	Excess Excavation, FM, AH
0070	213-C001		1	Ton	Superphosphate
0080	220-A001		1	Acre	Insect Pest Control (\$30.00)
0090	225-A001		1	Acre	Grassing
0100	225-B001		1	Ton	Agricultural Limestone
0110	225-C001		1	Ton	Mulch, Vegetative Mulch
0120	237-A002		120	Linear Feet	Wattles, 20"
0130	304-B004	(GT)	7,282	Ton	Granular Material, Class 5, Group D
0140	403-A006	(BA1)	1,575	Ton	19-mm, ST, Asphalt Pavement
0150	403-A015	(BA1)	16,225	Ton	9.5-mm, ST, Asphalt Pavement
0160	403-B012	(BA1)	11,375	Ton	9.5-mm, ST, Asphalt Pavement, Leveling
0170	403-C003	(BA1)	1,775	Ton	19-mm, ST, Asphalt Pavement, Trench Widening
0180	406-A002		1,600	Square Yard	Cold Milling of Bituminous Pavement, All Depths
0190	407-A001	(A2)	41,300	Gallon	Asphalt for Tack Coat
0200	423-A001		24	Mile	Rumble Strips, Ground In
0210	503-C010		4,650	Linear Feet	Saw Cut, Full Depth
0220	618-A001		1	Lump Sum	Maintenance of Traffic
0230	618-B001		1	Square Feet	Additional Construction Signs (\$10.00)
0240	619-A1001		48	Mile	Temporary Traffic Stripe, Continuous White
0250	619-A2001		3	Mile	Temporary Traffic Stripe, Continuous Yellow
0260	619-A4002		22	Mile	Temporary Traffic Stripe, Skip Yellow
0270	619-A5001		4,134	Linear Feet	Temporary Traffic Stripe, Detail
0280	619-A6002		1,292	Linear Feet	Temporary Traffic Stripe, Legend
0290	620-A001		1	Lump Sum	Mobilization
0300	626-C002		24	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous White
0310	626-D001		12	Mile	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow
0320	626-E001		2	Mile	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
0330	626-G004		2,984	Linear Feet	Thermoplastic Double Drop Detail Stripe, White
0340	626-G005		800	Linear Feet	Thermoplastic Double Drop Detail Stripe, Yellow
0350	626-H002		1,356	Linear Feet	Thermoplastic Double Drop Legend, White

Line no.	Item Code	Adj Code	Quantity	Units	Description Fixed Unit Price
0360	627-J001		451	Each	Two-Way Clear Reflective High Performance Raised Markers
0370	627-L001		1,090	Each	Two-Way Yellow Reflective High Performance Raised Markers
0380	630-A001		95	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness
0390	630-A003		324	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness
0400	630-A005		207	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.1" Thickness
0410	630-C005		1,350	Linear Feet	Square Tube Posts, 2.0 lb/ft
0420	630-G004		40	Each	Type 3 Object Markers, OM-3R or OM-3L
0430	907-234-A001		600	Linear Feet	Temporary Silt Fence
0440	907-413-E001		58,000	Linear Feet	Sawing and Sealing Transverse Joints in Asphalt Pavement
0450	907-619-B001		66	Linear Feet	Temporary Portable Rumble Strips
ALTERNATE GROUP AA NUMBER 1					
0460	304-F001	(GT)	180	Ton	3/4" and Down Crushed Stone Base
ALTERNATE GROUP AA NUMBER 2					
0470	304-F002	(GT)	180	Ton	Size 610 Crushed Stone Base
ALTERNATE GROUP AA NUMBER 3					
0480	304-F003	(GT)	180	Ton	Size 825B Crushed Stone Base

SECTION 905 - COMBINATION BID PROPOSAL (Continued)

CONDITIONS FOR COMBINATION BID

If a bidder elects to submit a combined bid for two or more of the contracts listed for this month's letting, the bidder must complete and execute these sheets of the proposal in each of the individual proposals to constitute a combination bid. In addition to this requirement, each individual contract shall be completed, executed and submitted in the usual specified manner.

Failure to execute this Combination Bid Proposal in each of the contracts combined will be just cause for each proposal to be received and evaluated as a separate bid.

It is understood that the Mississippi Transportation Commission not only reserves the right to reject any and all proposals, but also the right to award contracts upon the basis of lowest separate bids or combination bids most advantageous to the State.

It is further understood and agreed that the Combination Bid Proposal is for comparison of bids only and that each contract shall operate in every respect as a separate contract in accordance with its proposal and contract documents.

I (We) agree to complete each contract on or before its specified completion date.

COMBINATION BID PROPOSAL

This proposal is tendered as one part of a Combination Bid Proposal utilizing option ___* of Subsection 102.11 on the following contracts:

* Option to be shown as either (a), (b), or (c).

	<u>Project No.</u>	<u>County</u>	<u>Project No.</u>	<u>County</u>
1.	_____	_____	6.	_____
2.	_____	_____	7.	_____
3.	_____	_____	8.	_____
4.	_____	_____	9.	_____
5.	_____	_____	10.	_____

(a) If Combination A has been selected, your Combination Bid is complete.

(b) If Combination B has been selected, then complete the following page.

SECTION 905 - COMBINATION BID PROPOSAL (Continued)

Project Number	Pay Item Number	Unit	Unit Price Reduction	Total Item Reduction	Total Contract Reduction
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					

For Informational Purposes Only

SECTION 905 - COMBINATION BID PROPOSAL (Continued)

Project Number	Pay Item Number	Unit	Unit Price Reduction	Total Item Reduction	Total Contract Reduction
9.					
10.					

(c) If Combination C has been selected, then initial and complete ONE of the following.

_____ I (We) desire to be awarded work not to exceed a total monetary value of \$ _____.

_____ I (We) desire to be awarded work not to exceed _____ number of contracts.



TO: EXECUTIVE DIRECTOR, MISSISSIPPI DEPARTMENT OF TRANSPORTATION
JACKSON, MISSISSIPPI

CERTIFICATE

If awarded this contract, I (we) contemplate that portions of the contract will be sublet. I (we) certify that those subcontracts which are equal to or in excess of fifty thousand dollars (\$50,000.00) will be in accordance with regulations promulgated and adopted by the Mississippi State Board of Contractors on September 8, 2011.

I (we) agree that this notification of intent DOES NOT constitute APPROVAL of the subcontracts.

_____	_____
(Individual or Firm)	(Address)
_____	_____
(Individual or Firm)	(Address)
_____	_____
(Individual or Firm)	(Address)
_____	_____
(Individual or Firm)	(Address)

NOTE: Failure to complete the above DOES NOT preclude subsequent subcontracts. Subsequent subcontracts, if any, equal to or in excess of fifty thousand dollars (\$50,000.00) will be in accordance with regulations promulgated and adopted by the Mississippi State Board of Contractors on September 8, 2011.

Contractor _____

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
CERTIFICATION

I, _____,
(Name of person signing bid)

individually, and in my capacity as _____ of
(Title of person signing bid)

(Name of Firm, partnership, or Corporation)

do hereby certify under penalty of perjury under the laws of the United States and the State of Mississippi

that _____, Bidder
(Name of Firm, Partnership, or Corporation)

on Project No. **MP-2007-42(010)/ 308294301000**

in **Leflore** _____ County(ies), Mississippi, has not either directly or indirectly entered into any agreement, participated in any collusion; or otherwise taken any action in restraint of free competitive bidding in connection with this contract; nor have any of its corporate officers or principal owners.

Except as noted hereafter, it is further certified that said legal entity and its corporate officers, principal owners, managers, auditors and others in a position of administering federal funds are not currently under suspension, debarment, voluntary exclusion or determination of ineligibility; nor have a debarment pending; nor been suspended, debarred, voluntarily excluded or determined ineligible within the past three years by the Mississippi Transportation Commission, the State of Mississippi, any other State or a federal agency; nor been indicted, convicted or had a civil judgment rendered by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past three years.

Do exceptions exist and are made a part thereof? Yes / No

Any exceptions shall address to whom it applies, initiating agency and dates of such action.

Note: Exceptions will not necessarily result in denial of award but will be considered in determining bidder responsibility. Providing false information may result in criminal prosecution or administrative sanctions.

All of the foregoing is true and correct.

(1/2016 S)

SECTION 902

CONTRACT FOR _____
LOCATED IN THE COUNTY(IES) OF _____

STATE OF MISSISSIPPI
COUNTY OF HINDS

This Contract is entered into by and between the Mississippi Transportation Commission (the "Commission") and the undersigned contractor (the "Contractor"), as follows:

As consideration for this Contract, the Commission agrees to pay the Contractor the amount(s) set out in the Proposal attached hereto. Said payment will be made in the manner and at the time(s) specified in the Specifications and/or Special Provisions, if any. In exchange for said consideration, the Contractor hereby agrees to accept the prices stated in the Proposal as full compensation for the furnishing of all labor, materials and equipment, and the execution of the scope of work identified for this referenced Project as contemplated in this Contract, and as more fully outlined in the Contract Documents (the "Work"). The Contract Documents consist of the Advertisement, the Notice to Bidders, the Proposal, the Specifications, the Special Provisions, and the approved Plans, all of which are hereby made a part of this Contract and incorporated herein by reference.

The Contractor shall be responsible for all loss or damage arising out of, or in any way in connection with the Work, or from any unforeseen obstructions or difficulties that may be encountered in the prosecution of the Work, and for all risks of every description connected with the Work, with the exception of any items specifically excluded in the Contract Documents. The Contractor shall fully and faithfully complete the Work in a good and workmanlike manner, according to the Contract Documents and any Supplemental Agreements thereto.

The Contractor further agrees that the Work shall be done under the direct supervision of, and to the complete satisfaction of, the Executive Director of the Mississippi Department of Transportation, or his authorized representative(s), and, when federal funds are involved, subject to the inspection and approval of the Federal Highway Administration, or its agents, and/or the agents of any other state or federal agency whose funds are involved. Further, the Work shall be done in accordance with any applicable state and federal laws, and any such rules and regulations issued by the Commission and/or any relevant Federal Agency.

The Contractor agrees that all labor as outlined in the Contract Documents may be secured from a list furnished by the Manager of the Win Job Center nearest the project location, or any successor thereto.

It is agreed and understood that each and every provision of law and clause required by law to be inserted into this Contract shall be deemed to be inserted herein, and this Contract shall be read and enforced as though it were included herein. If through mere mistake or otherwise, any such provision is not inserted, then upon the application of either party hereto, the Contract shall be physically amended to make such insertion.

The Contractor agrees that he has read each and every clause of the Contract Documents, and fully understands the meaning of same, and hereby acknowledges that he will comply with all terms, covenants and agreements therein.

Witness our signatures, this the ____ day of _____, 20__.

Contractor

By: _____
Title: _____

Signed and sealed in the presence of: (name and address of witness)

MISSISSIPPI TRANSPORTATION COMMISSION

Executive Director

Secretary to the Commission

Award authorized by the Mississippi Transportation Commission in session on the ____ day of _____, _____, Minute Book No. _____, Page No. _____.

**SECTION 903
PERFORMANCE BOND**

PERFORMANCE BOND FOR THE FOLLOWING CONTRACT:

Project No.: _____

For the construction of: _____

Contract date: _____ Contract amount: _____

FOR OWNER: MISSISSIPPI TRANSPORTATION COMMISSION, 401 N. WEST STREET, JACKSON, MISSISSIPPI 39201.

CONTRACTOR (full legal name, contact person, phone number and address):

SURETY (legal name, phone number, principal place of business and address *for notice purposes*):

Second Surety (if applicable):

The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns, to the Owner for the performance of the Contract, which is incorporated herein by reference, and subject to the following terms:

1. If the Contractor fully and faithfully performs the Contract, the Surety and the Contractor shall have no obligation under this Bond.
2. The Surety's obligation under this Bond shall arise after:
 - (a) the Owner first provides notice to the Contractor and the Surety that termination is imminent, pursuant to the current edition of the Mississippi Standard Specifications for Road and Bridge Construction, which is a part of the Contract; and
 - (b) the Owner declares a Contractor Default, terminates the Contract, and notifies the Surety.
3. The Surety shall promptly and at the Surety's expense, take one of the following actions:
 - (a) Arrange for the Contractor, with the consent of the Owner, to perform and complete the Contract; or
 - (b) Undertake to perform and complete the Contract itself, through its agents or independent contractors.
4. If the Surety does not proceed as provided in Paragraph 3, within 20 calendar days as set forth in Section 108.08 of the current edition of the Mississippi Standard Specifications for Road and Bridge Construction, then the Surety shall be deemed to be in default on this Bond, and the Owner shall be entitled to enforce any remedy available to it under the Contract and applicable law.
5. Subject to the commitment by the Owner to pay the Balance of the Contract Price, the Surety is obligated, without duplication, for

- (a) the responsibilities of the Contractor for correction of defective work and completion of the Contract;
 - (b) additional legal, design professional and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Paragraph 3; and
 - (c) liquidated damages, or if no liquidated damages are specified in the Contract, actual damages caused by delayed performance or non-performance of the Contractor.
6. The Surety hereby waives notice of any change, including changes of time, to the Contract or to related subcontracts, purchase orders and other obligations.
 7. The penal sum of the Bond shall be subject to increase or decrease based on any subsequent Supplemental Agreements and/or final contract quantities.
 8. Notice to the Surety, the Owner or the Contractor shall be mailed or delivered to the address listed for notice purposes on the first page of this Bond.

CONTRACTOR AS PRINCIPAL

Company: _____

Signature: _____

Name: _____

Title: _____

Address: _____

SURETY

Company: _____

Signature: _____

MS Insurance ID # _____

Name: _____

Title: _____

Address: _____

SURETY (if applicable)

Company: _____

Signature: _____

MS Insurance ID # _____

Name: _____

Title: _____

Address: _____

**SECTION 903
PAYMENT BOND**

PAYMENT BOND FOR THE FOLLOWING CONTRACT:

Project No.: _____

For the construction of: _____

Contract date: _____ Contract amount: _____

FOR OWNER: MISSISSIPPI TRANSPORTATION COMMISSION, 401 N. WEST STREET, JACKSON, MISSISSIPPI 39201.

CONTRACTOR (full legal name, contact person, phone number and address):

SURETY (legal name, phone number, principal place of business and address *for notice purposes*):

Second Surety (if applicable):

The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns, to the Owner for payment of labor, materials and equipment furnished for use in the performance of the Contract, which is incorporated herein by reference, subject to the following terms:

1. If the Contractor promptly makes payment of all sums due to any and all subcontractors, suppliers and/or laborers, and defends, indemnifies and holds harmless the Owner from claims, demands, liens or suits by any person or entity seeking payment for labor, materials or equipment furnished for use in the performance of the Contract, then the Surety and the Contractor shall have no obligation under this Bond.
2. The Owner shall provide notice to the Surety of any claims, demands, liens or suits against the Owner or the Owner's property that it receives from any person or entity ("Claimants") seeking payment for labor, materials or equipment furnished for use in the performance of the Contract.
3. Upon notice of any claims, demands, liens or suits provided by the Owner or Contractor or given to the Surety by a Claimant, the Surety shall promptly and at the Surety's expense, defend, indemnify and hold harmless the Owner against said claim, demand, lien or suit and shall take the following additional actions:
 - (a) Send an answer to the Claimant, with a copy to the Owner, within sixty (60) days after receipt of the Claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed; and
 - (b) Pay or arrange for payment of any undisputed amounts.
4. The Surety shall not be liable to the Owner, Claimants or others for obligations of the Contractor that are unrelated to the Contract. The Owner shall not be liable for the payment of any costs or expenses of any Claimant under this Bond, and shall have no obligation under this Bond to make payments to, or give notice on behalf of, Claimants or otherwise have any obligations to Claimants under this Bond.

5. The Surety hereby waives notice of any change, including changes of time, to the Contract or to related subcontracts, purchase orders and other obligations.
6. The penal sum of the Bond shall be subject to increase or decrease based on any subsequent Supplemental Agreements and/or final contract quantities.

CONTRACTOR AS PRINCIPAL

Company: _____
Signature: _____
Name: _____
Title: _____
Address: _____

SURETY

Company: _____
Signature: _____ MS Insurance ID # _____
Name: _____
Title: _____
Address: _____

SURETY (if applicable)

Company: _____
Signature: _____ MS Insurance ID # _____
Name: _____
Title: _____
Address: _____



BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we _____
Contractor

Address

City, State ZIP

As principal, hereinafter called the Principal, and _____
Surety

a corporation duly organized under the laws of the state of _____

as Surety, hereinafter called the Surety, are held and firmly bound unto **State of Mississippi, Jackson, Mississippi**

As Obligee, hereinafter called Obligee, in the sum of **Five Per Cent (5%) of Amount Bid**

Dollars(\$ _____)

for the payment of which sum will and truly to be made, the said Principal and said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for **Mill & Overlay approximately 12 miles of SR 7 from 2 miles south of Morgan City to Itta Bena, known as State Project No. MP-2007-42(010) / 308294301 in Leflore County.**

NOW THEREFORE, the condition of this obligation is such that if the aforesaid Principal shall be awarded the contract, the said Principal will, within the time required, enter into a formal contract and give a good and sufficient bond to secure the performance of the terms and conditions of the contract, then this obligation to be void; otherwise the Principal and Surety will pay unto the Obligee the difference in money between the amount of the bid of the said Principal and the amount for which the Obligee legally contracts with another party to perform the work if the latter amount be in excess of the former, but in no event shall liability hereunder exceed the penal sum hereof.

Signed and sealed this _____ day of _____, 20__

(Principal) (Seal)

(Witness) (Name) By: _____ (Title)

(Surety) (Seal)

(Witness) (Attorney-in-Fact) By: _____

(MS Agent)

Mississippi Insurance ID Number

