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SM No. CMP1041580031

PROPOSAL AND CONTRACT DOCUMENTS

FOR THE CONSTRUCTION OF

01

Slide Repair on SR 41 approximately 550 feet North of the SR 41 & SR 15 Intersection, known as State Project No. MP-1041-58(003) / 307744302 in Pontotoc County.

Project Completion: 10/25/2021

(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-1041-58(003)/307744302 - Pontotoc

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

07/14/2021 09:37 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., Thursday, July 22, 2021, from Bid Express Service and shortly thereafter publicly read in the Construction Division for:

Slide Repair on SR 41 approximately 550 feet North of the SR 41 & SR 15 Intersection, known as State Project No. MP-1041-58(003) / 307744302 in Pontotoc County.

In accordance with authority granted under Section 65-1-85 Mississippi Code of 1972, Annotated, the work to be accomplished under this contract has been declared by the Executive Director to be an emergency, and it is desired that you submit a bid for performing the needed and necessary work for alleviating the situation that exists at this site.

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://shopmdot.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://shopmdot.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. 9

CODE: (IS)

DATE: 03/01/2017

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

http://www.ops.fhwa.dot.gov/Freight/publications/brdg_frm_wgths/bridge_formula_all_rev.pdf

An on line **BRIDGE FORMULA WEIGHTS CALCULATOR** is available at

http://ops.fhwa.dot.gov/freight/sw/brdgcalc/calc_page.htm

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

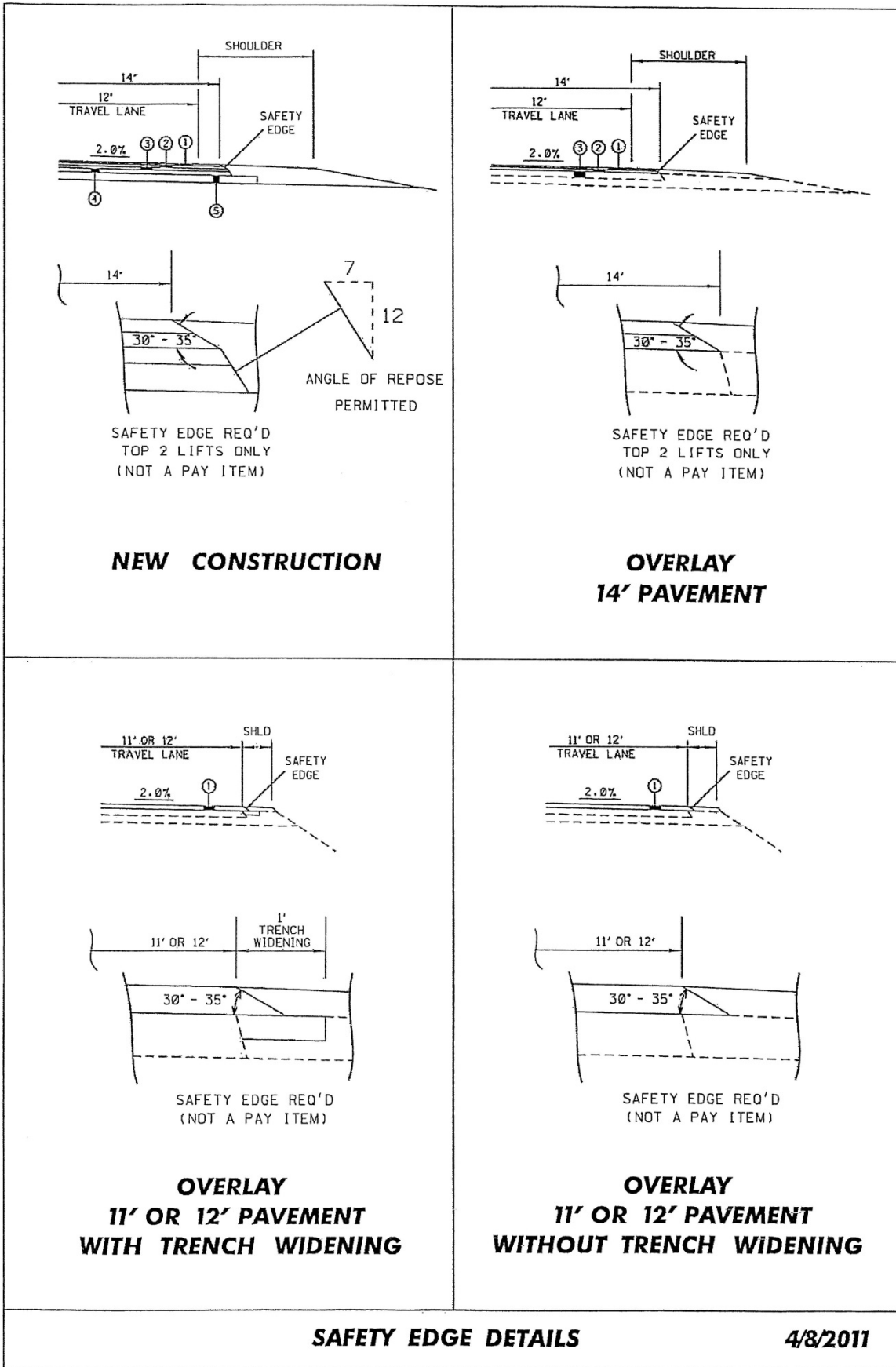
SECTION 904 - NOTICE TO BIDDERS NO. 13

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. 296

CODE: (SP)

DATE: 07/25/2017

SUBJECT: Reduced Speed Limit Signs

Bidders are advised that when the plans or contract documents require the speed limit on a project to be reduced, the Contractor shall begin work within 48 hours of installing the reduced speed limit signs. Should the Contractor not start work or have no plans to start work within 48 hours of installing the signs, the reduced speed limit signs shall be covered and existing speed limit signs uncovered.

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 “ <u>AASHTO</u> ” to “ <u>AASHTO’s LRFD</u> ”.
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. 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: (SP)

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

SECTION 904 – NOTICE TO BIDDERS NO. 3117

CODE: (SP)

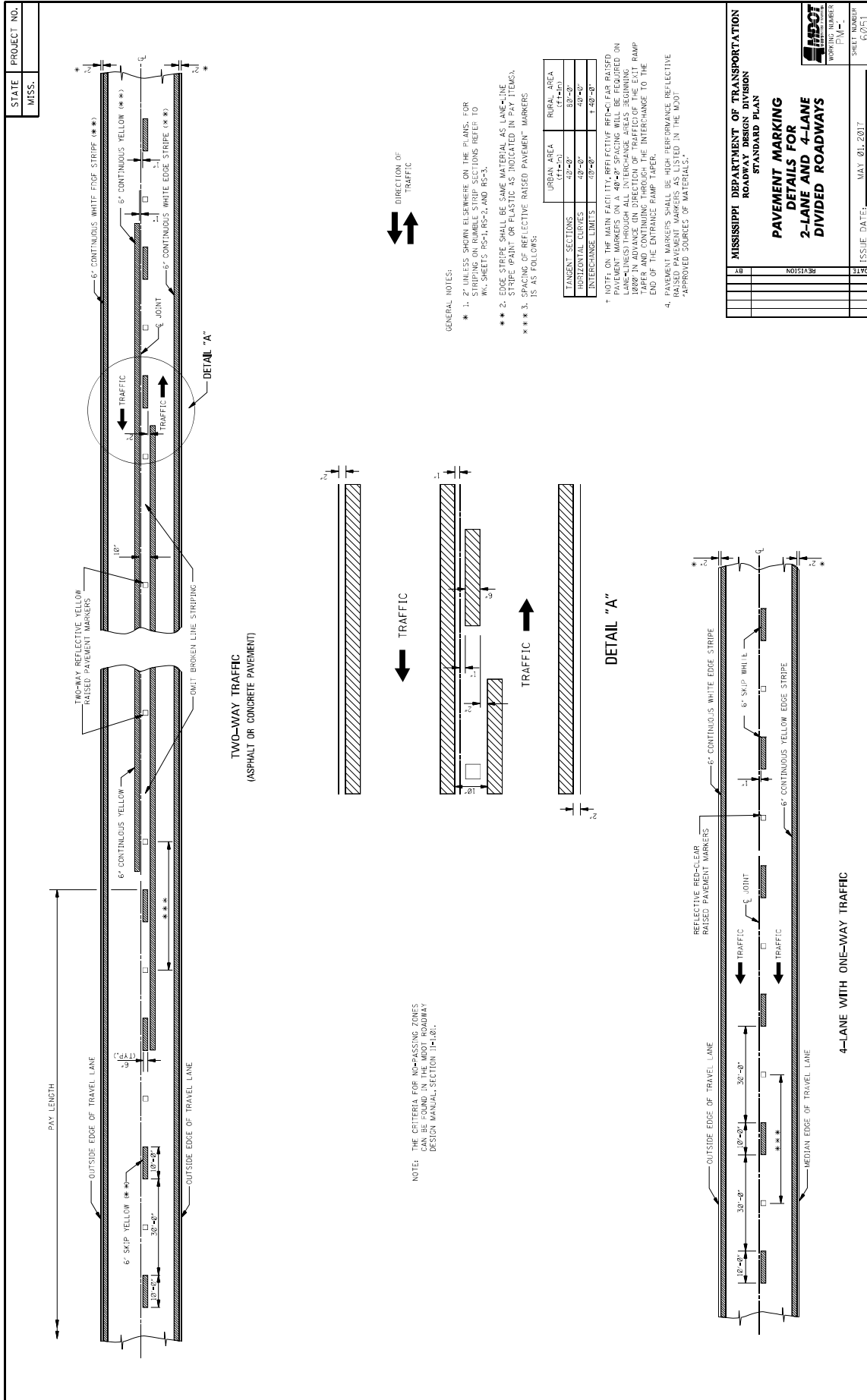
DATE: 02/23/2021

SUBJECT: Standard Drawings

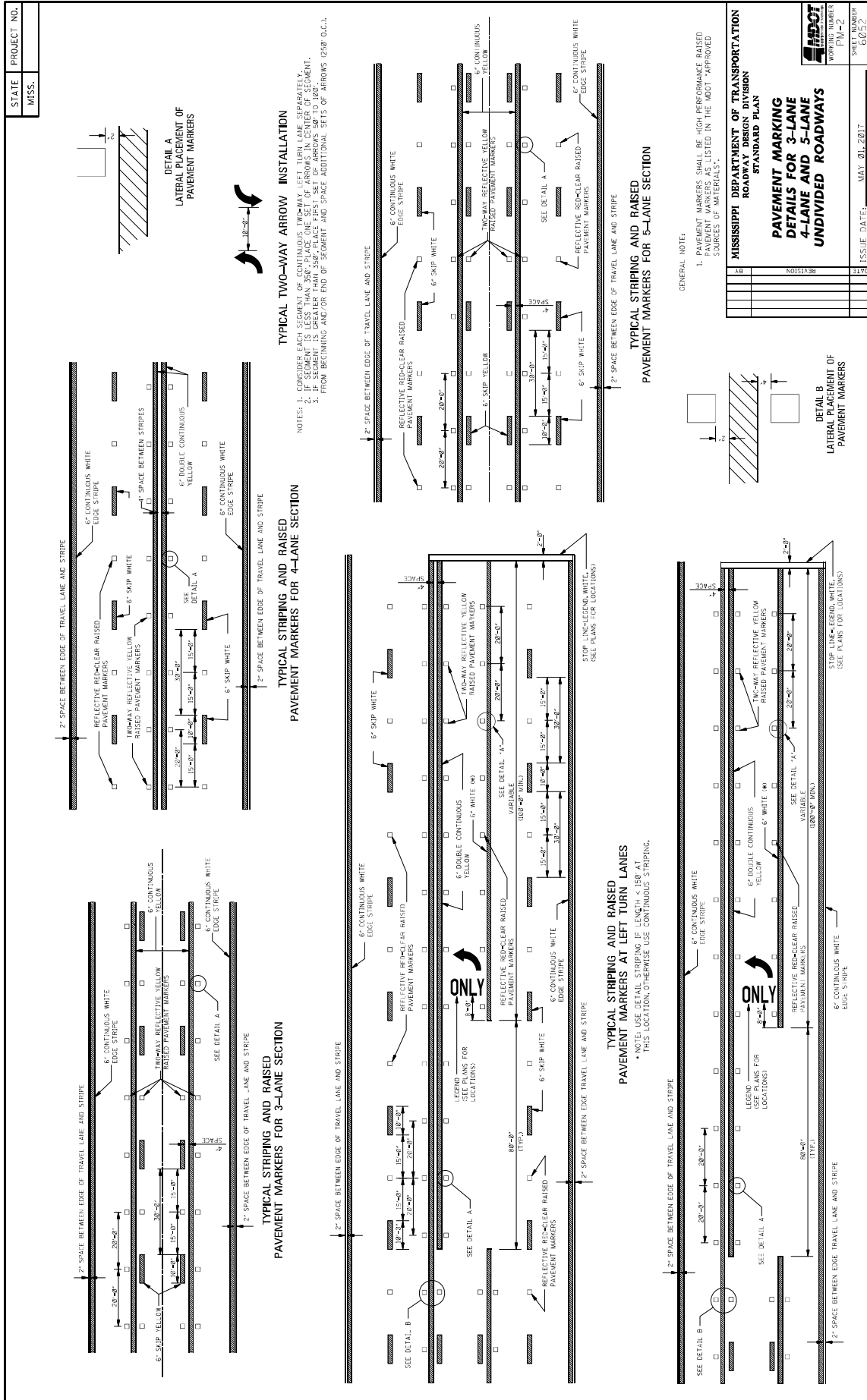
Standard Drawings attached hereto shall govern appropriate items of required work.

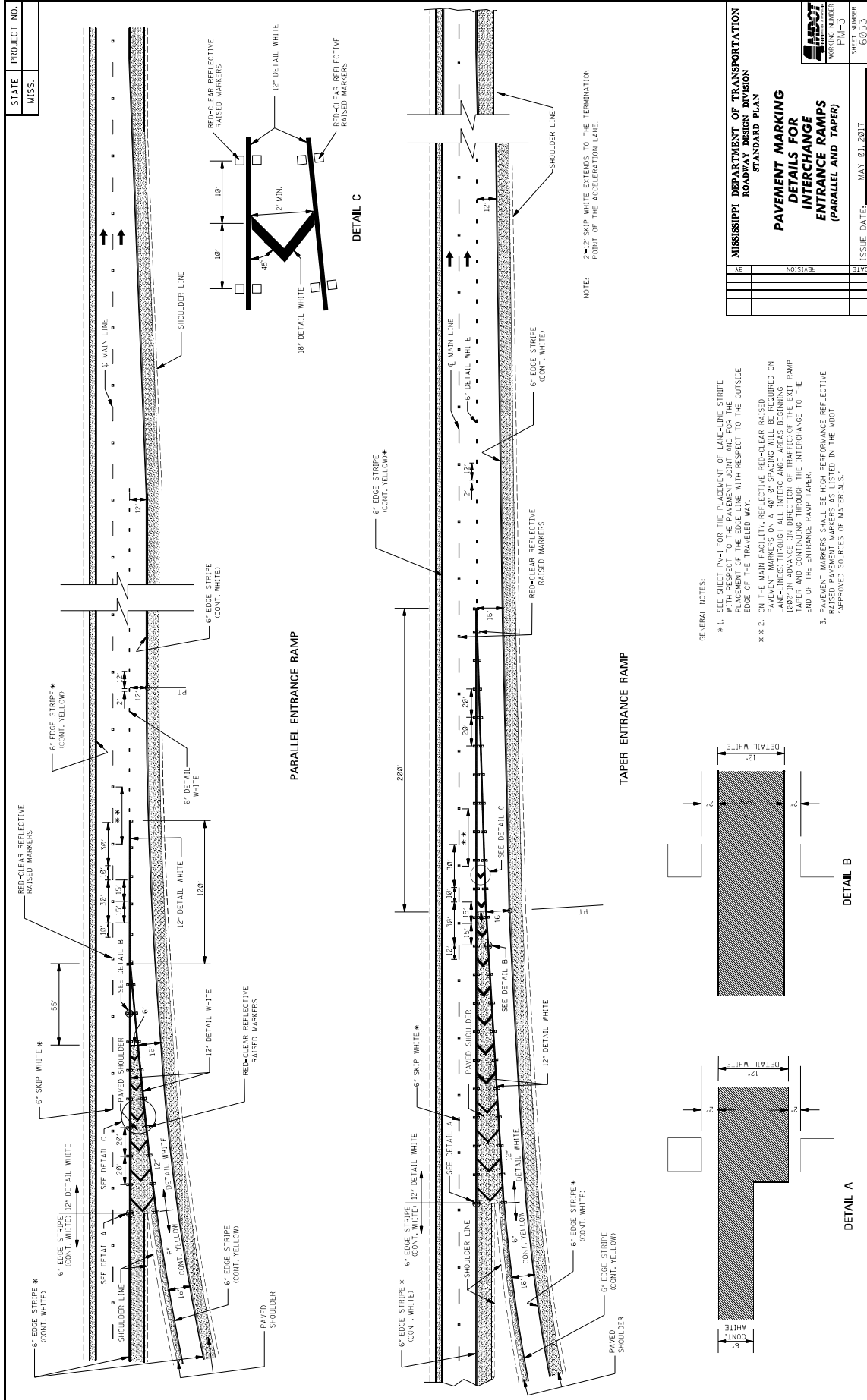
Larger copies of Standard Drawings may be purchased from:

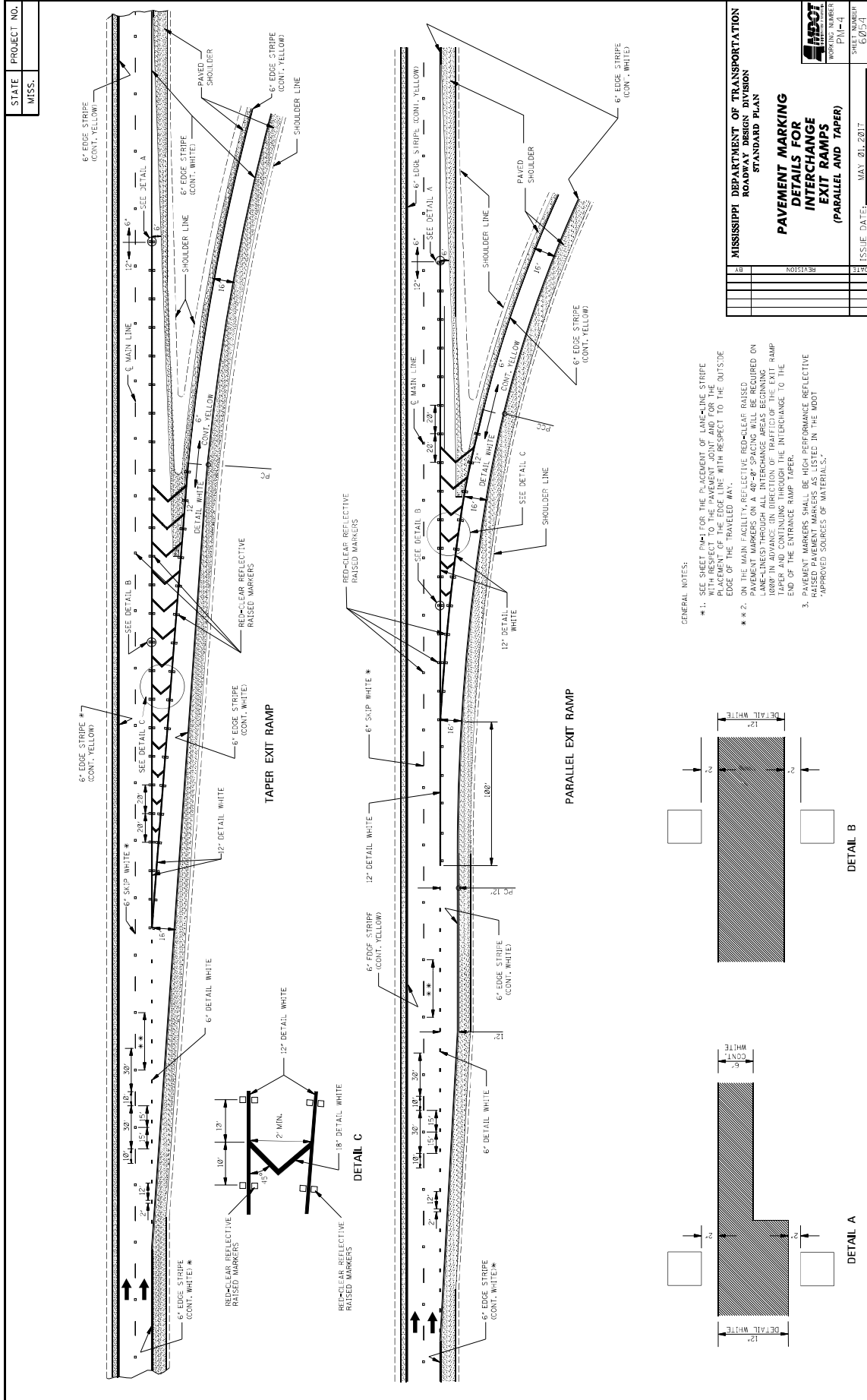
MDOT Plans Print Shop
MDOT Shop Complex, Building C, Room 114
2567 North West Street
P.O. Box 1850
Jackson, MS 39215-1850
Telephone: (601) 359-7460
or FAX: (601) 359-7461
or e-mail: plans@mdot.state.ms.us



MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
ROADWAY DESIGN DIVISION	
STANDARD PLAN	
PAVEMENT MARKING	
2-LANE AND 4-LANE	
DIVIDED ROADWAYS	
	SHEET NUMBER 0001
	ISSUE DATE: MAY 01, 2017







MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
ROADWAY DESIGN DIVISION	
STANDARD PLAN	
PAVEMENT MARKING	
DETAILS FOR	
INTERCHANGE	
EXIT RAMP	
(PARALLEL AND TAPER)	
WORKING NUMBER	SHEET NUMBER
PL-4	602/5-1
ISSUE DATE:	MAY 20, 2017
DATE	REVISION

- GENERAL NOTES:
- * 1. SEE SHEET PAV-1 FOR THE PLACEMENT OF LANE-LINE STRIPE WITH RESPECT TO THE PAVEMENT JOINT AND FOR THE PLACE OF THE EDGE STRIPE WITH RESPECT TO THE OUTSIDE EDGE OF THE PAVED SHOULDER.
 - ** 2. RAISED REFLECTIVE BEAD-BLE RANGES (PAVEMENT MARKERS ON A 40'-84" SPACING WILL BE REQUIRED ON 1000' IN ADVANCE IN DIRECTION OF TRAFFIC OF THE EXIT RAMP TAPER AND CONTINUING THROUGH THE INTERCHANGE TO THE END OF THE ENTRANCE RAMP TAPER.
 3. RAISED PAVEMENT MARKERS BE HIGH PERFORMANCE REFLECTIVE 'APPROVED SOURCES OF MATERIALS.'

STATE MISS.	PROJECT NO.										
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6'-4"

8'-4"

4"

6'-4"

8'-4"

4"

6'-4"

8'-4"

4"

6'-4"

8'-4"

4"

5'-4"

8'-4"

4"

7'-0"

8'-4"

4"

7'-0"

8'-4"

4"

8'-0"

8'-4"

4"

9'-8"

8'-4"

4"

GENERAL NOTES:

- TWO HORIZONTAL GAPS (CAUSED BY TEMPLATE CONNECTIONS) OF 1/2" SHALL BE SHOWN EXTENDING FULL WIDTH OF RESPECTIVE 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	246.6
RIGHT	286.6
LEFT	195.5
TRAFFIC	227.2
YIELD	268.8
EXIT	185.5
SIGNAL	352.5
SCHOOL	352.5

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**PAVEMENT MARKING
LEGEND DETAILS**

DATE	BY	REVISION									
ISSUE DATE: MAY 01, 2017											
SHEET NUMBER 60535											

STATE MISS.	PROJECT NO.		
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ONLY: 8'-4" x 5'-10"

TURN: 8'-4" x 6'-4"

THRU: 10'-0" x 3'-4"

COMBINATION: 13'-4" x 7'-8"

LANE-REDUCTION: 17'-8" x 6'-6"

1-WAY: 23'-10" x 7'-2"

GENERAL NOTES:

- TWO HORIZONTAL GAPS (CAUSED BY TEMPLATE CONNECTIONS OF 1/4" 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	46.0

GENERAL NOTES:

- TWO HORIZONTAL GAPS (CAUSED BY TEMPLATE CONNECTIONS OF 1/4" 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:

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

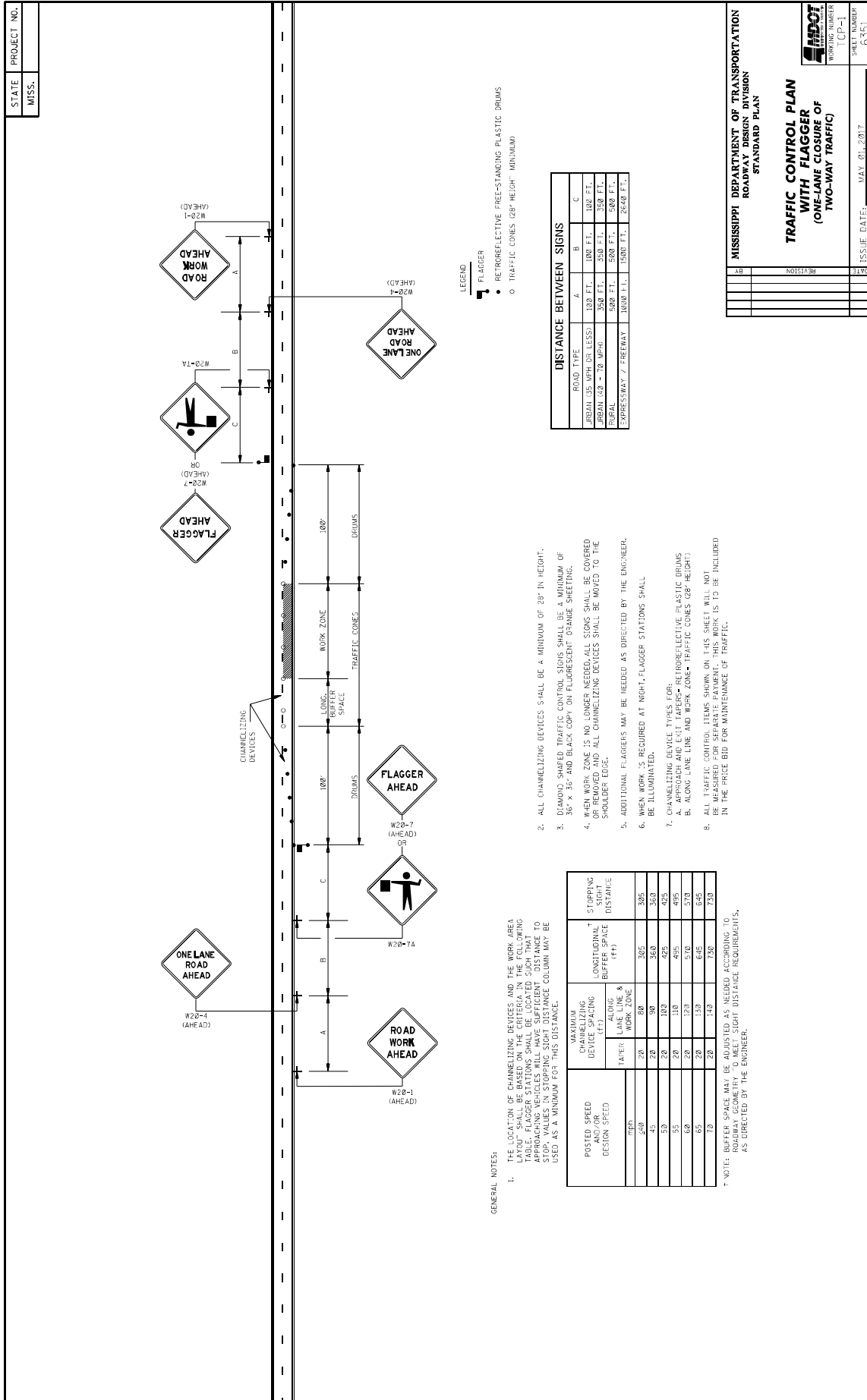
PAVEMENT MARKING LEGEND DETAILS

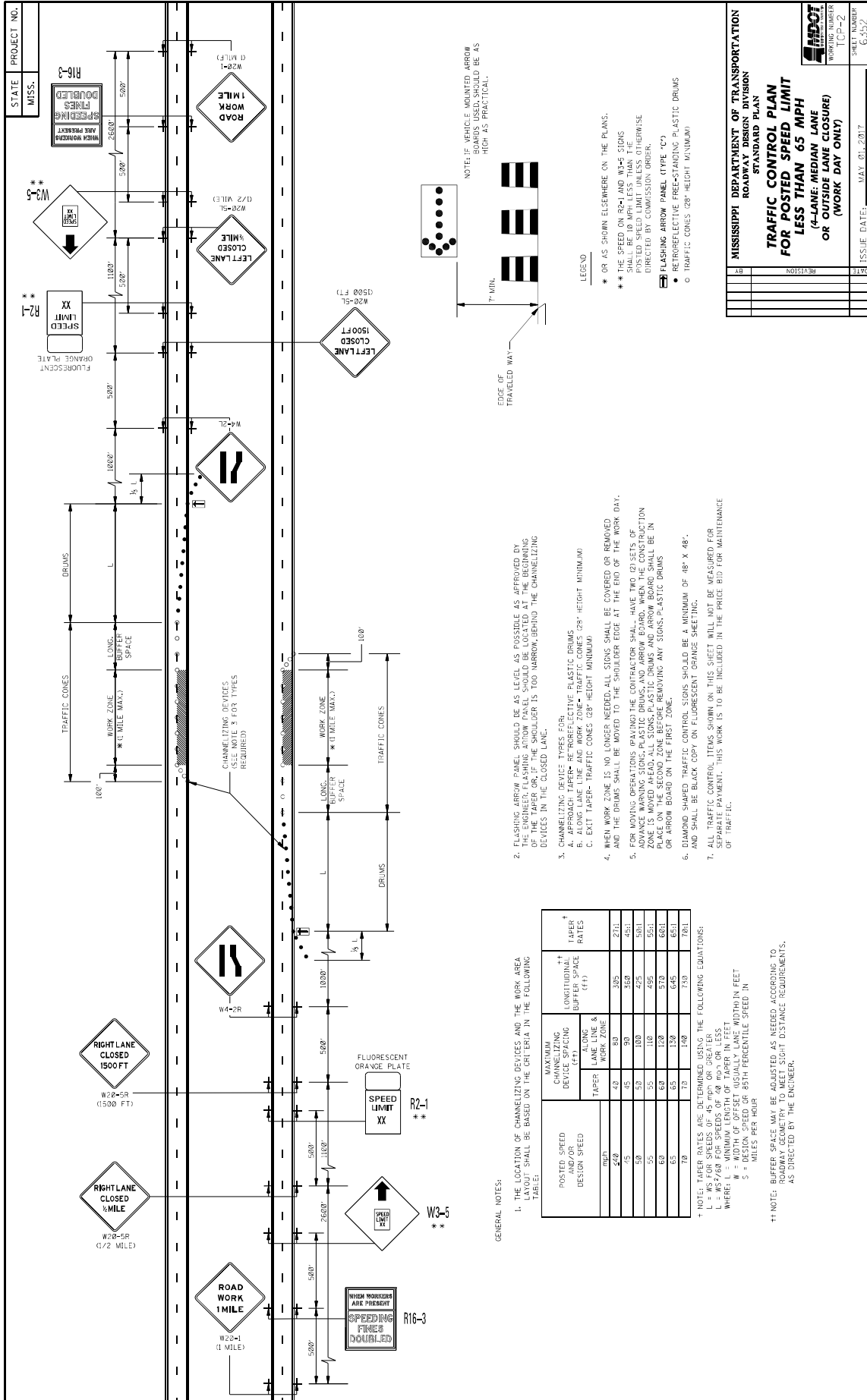
DATE	BY	REVISION

ISSUE DATE: MAY 01, 2017

SHEET NUMBER: 60/56

WORKING NUMBER: PM-6





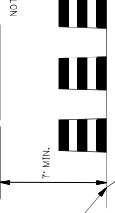
GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:
- | POSTED SPEED AND/OR DESIGN SPEED | MAXIMUM CHANNELIZING DEVICE SPACING (FT) | | LONGITUDINAL BUFFER SPACE (FT) | TAPER RATES |
|----------------------------------|--|-----------|--------------------------------|-------------|
| | LANE LINE & WORK ZONE | WORK ZONE | | |
| 70 | 42 | 80 | 305 | 27:1 |
| 55 | 45 | 90 | 350 | 45:1 |
| 50 | 50 | 100 | 425 | 50:1 |
| 55 | 55 | 110 | 495 | 55:1 |
| 60 | 60 | 120 | 570 | 60:1 |
| 65 | 65 | 130 | 645 | 65:1 |
| 70 | 70 | 140 | 730 | 70:1 |
- † NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
 L = MS FOR SPEEDS OF 45 MPH OR GREATER
 L = MS FOR SPEEDS OF 30 MPH OR GREATER
 WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
 M = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET
 S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR
- †† NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. THE PANEL SHOULD BE LOCATED AT THE END OF THE WORK DAY OF THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.
3. CHANNELIZING DEVICES: TYPE: F30.
 A. APPROACH TAPER- RETROREFLECTIVE PLASTIC DRUMS
 B. ALONG LANE LINE AND WORK ZONE- TRAFFIC CONES (28" HEIGHT MINIMUM)
 C. EXIT TAPER- TRAFFIC CONES (28" HEIGHT MINIMUM)
4. WHEN WORK ZONE IS NO LONGER NEEDED, ALL SIGNS SHALL BE COVERED OR REMOVED.
5. FOR MOVING OPERATIONS (PAVING) THE CONTRACTOR SHALL HAVE TWO (2) SETS OF ADVANCE WARNING SIGNS- PLASTIC DRUMS AND ARROW BOARD. WHEN THE CONSTRUCTION ZONE IS MOVED AHEAD, ALL SIGNS- PLASTIC DRUMS AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY SIGNS- PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.
6. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48" AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.
7. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

LEGEND

- * OR AS SHOWN ELSEWHERE ON THE PLANS.
- ** THE SPEED ON R2-1 AND W3-5 SIGNS SHALL BE 10 MPH LESS THAN THE POSTED SPEED LIMIT UNLESS OTHERWISE DIRECTED BY COMMISSION ORDER.
- ▢ FLASHING ARROW PANEL (TYPE "C")
- RETROREFLECTIVE FREE-STANDING PLASTIC DRUMS
- TRAFFIC CONES (28" HEIGHT MINIMUM)



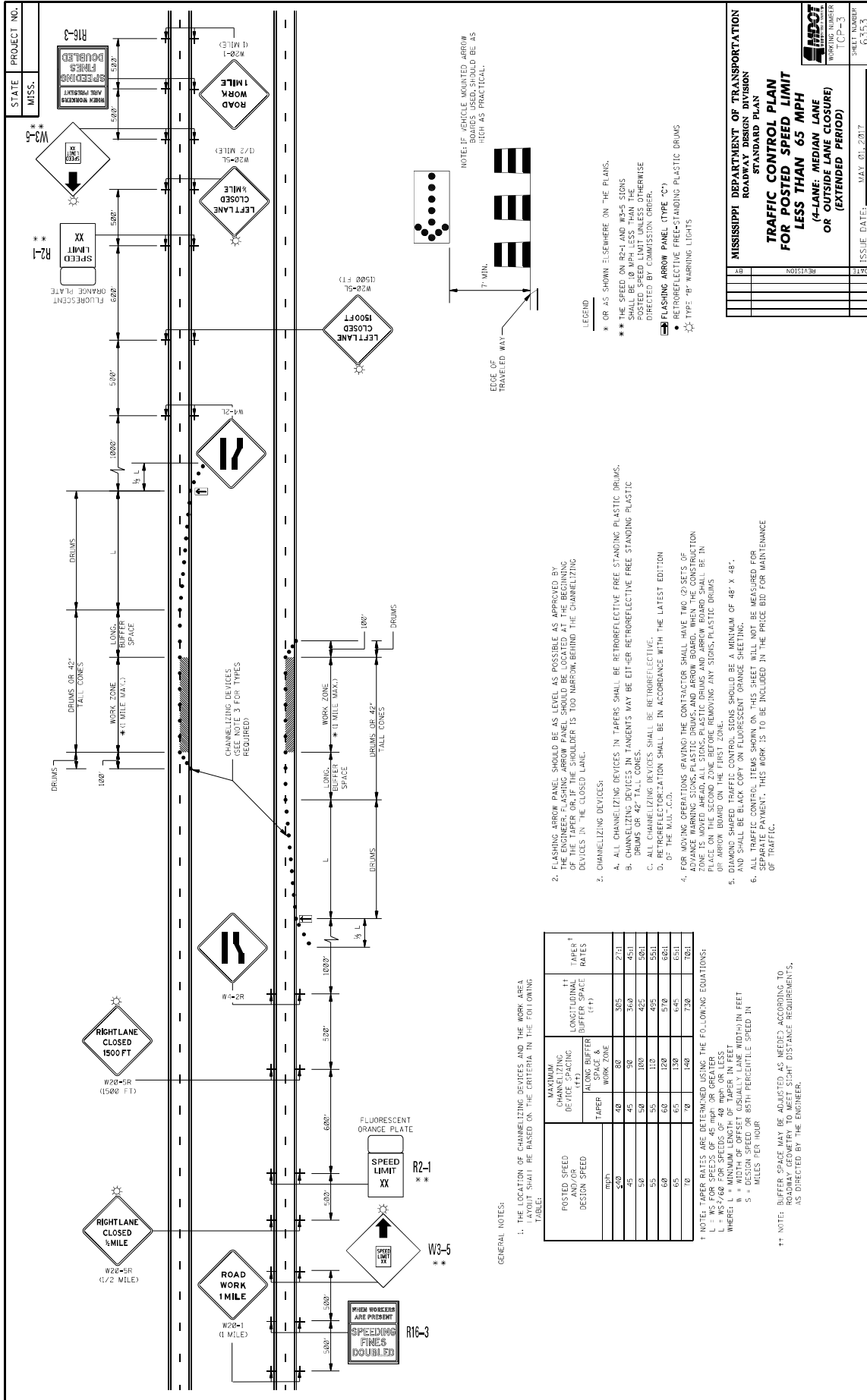
STATE PROJECT NO. MISS. R16-3

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN DIVISION
 STANDARD PLAN

**TRAFFIC CONTROL PLAN
 FOR POSTED SPEED LIMIT
 LESS THAN 65 MPH
 (4-LANE, MEDIAN LANE
 OR OUTSIDE LANE CLOSURE)
 OR (WORK DAY ONLY)**

ISSUE DATE: MAY 01, 2017

WORKING NUMBER: 1CP-2
 SHEET NUMBER: 6252



GENERAL NOTES:

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

POSTED SPEED DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (FEET)		LONGITUDINAL BUFFER SPACE (FEET)	TAPER RATES
	ALONG BUFFER	WORK ZONE		
10	40	80	305	2:1
20	45	90	360	4:1
30	50	100	425	5:1
35	55	110	495	5:1
40	60	120	570	6:1
45	65	130	645	6:1
50	70	140	730	7:1

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

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

- 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 WORK ZONE. BUFFER SPACE SHOULD BE 100' MINIMUM BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.
- CHANNELIZING DEVICES:
 - ALL CHANNELIZING DEVICES IN TAPERS SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
 - DRUMS OR 42" TALL CONES.
 - ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE.
 - RETROREFLECTORIZATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE M.I.T.C.O.A.
- FOR WORKING DRUMS, TAPERS THE CONTRACTOR SHALL HAVE TWO (2) FEET OF CHANNELIZING DEVICES (STANDING PLASTIC DRUMS AND ARROW BOARD). THE CONSTRUCTION ZONE IS MOVED AHEAD ALL STANDING PLASTIC DRUMS AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY STANDING PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.
- 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.
- ** THE SPEED ON R2-1 AND R2-2 SIGNS SHALL BE 10 MPH LESS THAN THE POSTED SPEED LIMIT UNLESS OTHERWISE DIRECTED BY COMMISSION ORDER.
- ◆ FLASHING ARROW PANEL (TYPE 'C')
- RETROREFLECTIVE FREE-STANDING PLASTIC DRUMS
- TYPE 'B' WARNING LIGHTS

STATE PROJECT NO. MISS.

WORKERS ARE PRESENT
SPEEDING FINES DOUBLED
R16-3

W3-5

RIGHT LANE CLOSED 1/2 MILE
W26-5R (1/2 MILE)

RIGHT LANE CLOSED 1500 FT
W26-5R (1500 FT)

ROAD WORK 1 MILE
W20-1 (1 MILE)

ROAD WORK 1/2 MILE
W26-5R (1/2 MILE)

LEFT LANE CLOSED 1/2 MILE
W26-5L (1/2 MILE)

LEFT LANE CLOSED 1500 FT
W26-5L (1500 FT)

DRUMS OR 42" TALL CONES

WORK ZONE

LONG. BUFFER SPACE

CHANNELIZING DEVICES (SEE NOTE 3 FOR TYPES REQUIRED)

DRUMS OR 42" TALL CONES

EDGE OF TRAVELED WAY

7' MIN.

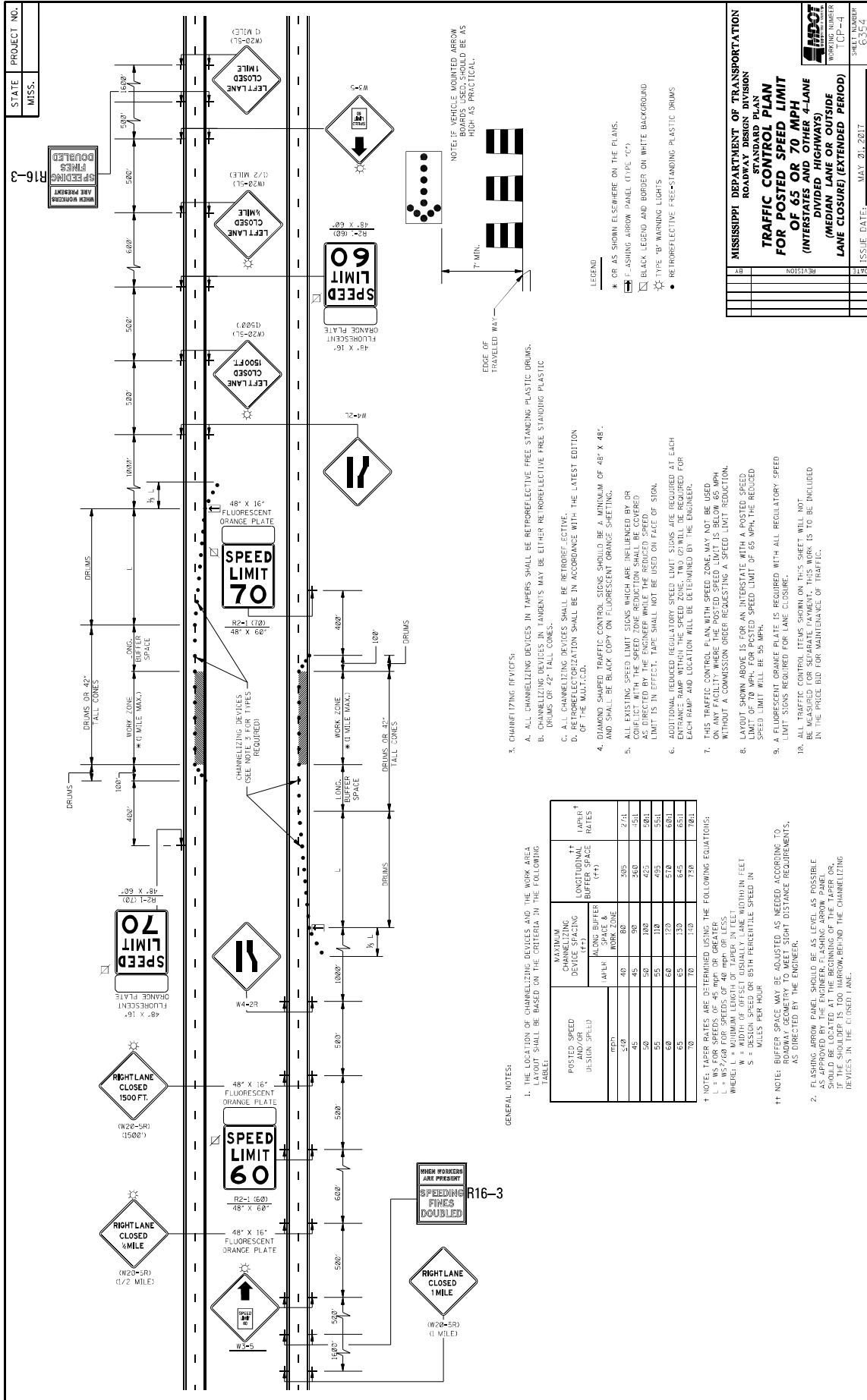
NOTE: IF VEHICLE MOUNTED ARROW BOARDS USED, SHOULD BE AS HIGH AS PRACTICAL.

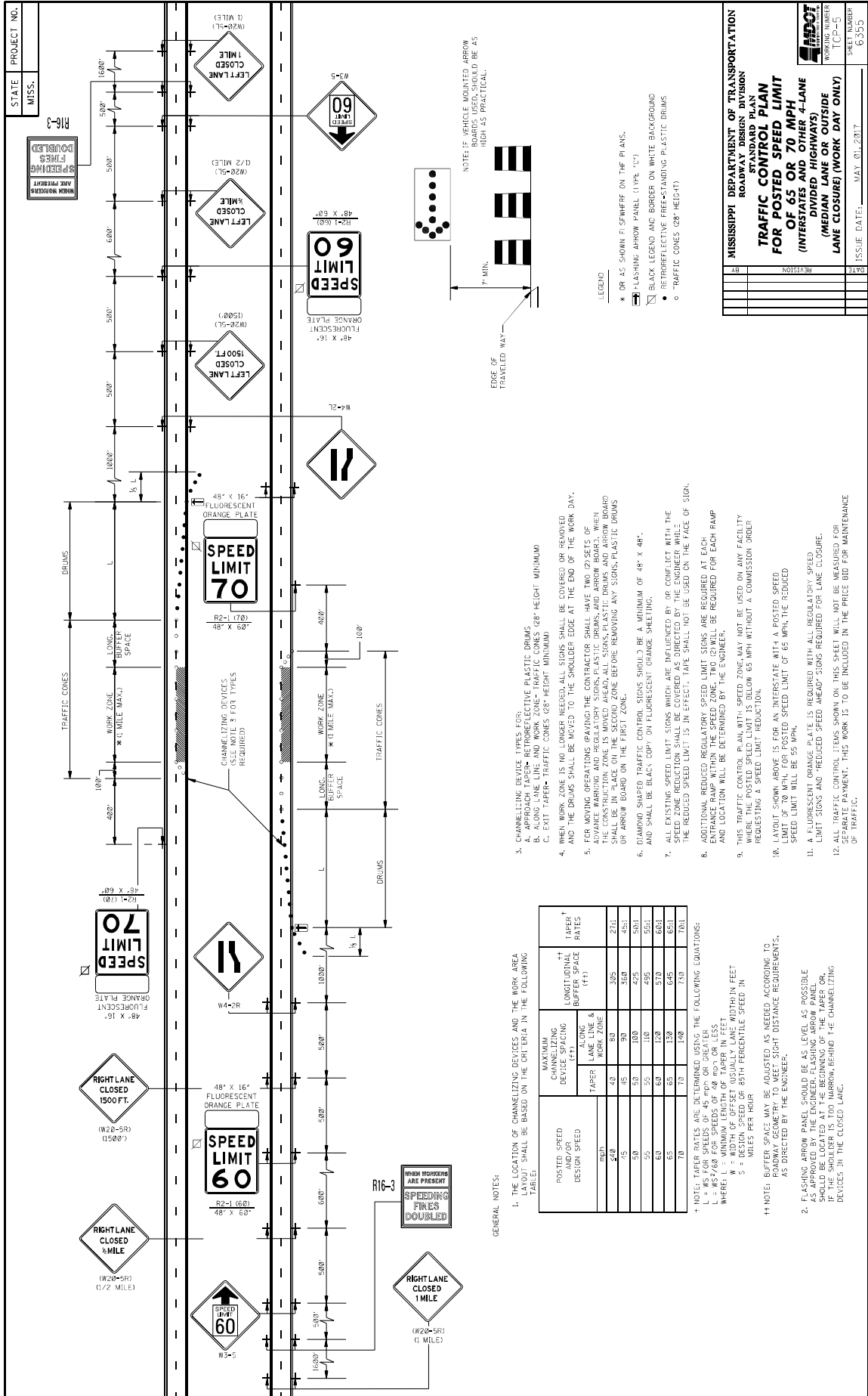
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN
TRAFFIC CONTROL PLAN
FOR POSTED SPEED LIMIT
LESS THAN 65 MPH
(4-LANE, MEDIAN LANE
OR OUTSIDE LANE CLOSURE)
(EXTENDED PERIOD)

ISSUE DATE: MAY 01, 2017

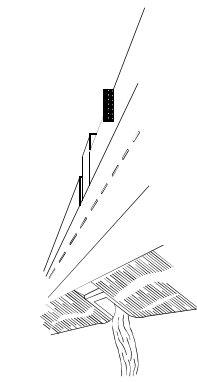
WORKING NUMBER
TCP-3

SHEET NUMBER
6253





STATE MISS.	PROJECT NO.	
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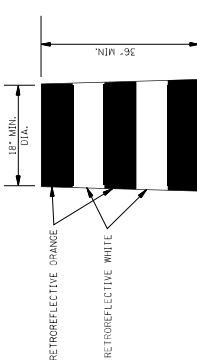
WING BARRICADES

1. 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.

2. WING BARRICADES SHOULD BE USED:

A. IN ADVANCE OF A CONSTRUCTION PROJECT EVEN WHEN NO PART OF THE ROADWAY IS ACTUALLY CLOSED.

B. IN ADVANCE OF ALL BRIDGE OR CULVERT WIDENING OPERATIONS.

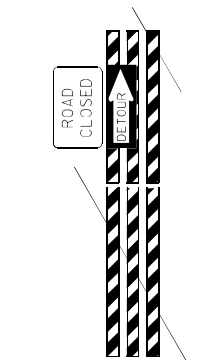


PLASTIC DRUM STRIPING DETAIL

1. 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 MICHIGAN STANDARD PRACTICES. THE PREDOMINANT COLOR OF DRUMS SHALL BE ORANGE WITH POLYREFLECTIVE, HORIZONTAL, CIRCUMFERENTIAL STRIPES (2 ORANGE & 2 WHITE) 6" WIDE.

2. DRUMS SHOULD NEVER BE PLACED IN THE ROADWAY WITHOUT WARNING SIGNS.

3. WHERE PRACTICAL PLASTIC DRUMS SHOULD BE PLACED NO CLOSER THAN 3'-0" FROM THE EDGE OF TRAVELED LANE.



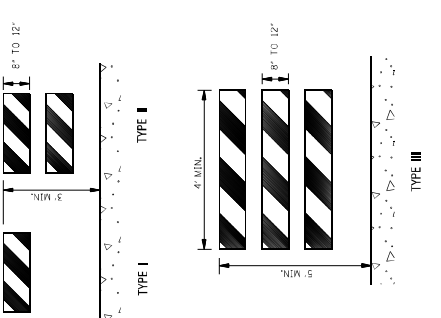
BARRICADE CLOSING A ROAD

	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

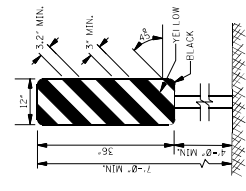
1. THE MARKING FOR BARRICADE RAILS SHALL BE ORANGE AND WHITE (SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION TRAFFIC IS TO PASS).

2. RAIL STRIPE SHALL BE 6 INCHES, EXCEPT THAT 4-INCH WIDE STRIPES MAY BE USED IF RAIL LENGTHS ARE LESS THAN 36 INCHES.

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

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

5. BARRICADES ARE CLASSIFIED BY FHWA AS CATEGORY II, WHERE TYPE 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/policy_guidance/road_aware/cat2.cfm

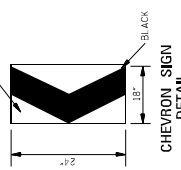


TYPE 3 OBJECT MARKER (OM-3R)

1. TYPE 3 OBJECT MARKERS SHALL BE USED AT ALL EXPOSED BRIDGE ABUTMENTS AND AT OTHER LOCATIONS AS DETERMINED NECESSARY BY THE ENGINEER.

2. 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.

3. THE INSIDE EDGE OF THE MARKER SHALL BE IN LINE WITH THE INNER EDGE OF THE OBSTRUCTION.



CHEVRON SIGN DETAIL

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

2. THE CHEVRON SIGN SHALL BE MOUNTED ON CRASHWORTHY SUPPORT.

3. 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 2'-0" BEHIND THE LANE TRANSITION STRIPE.


1. TYPE 3 OBJECT MARKERS SHALL BE USED AT ALL EXPOSED BRIDGE ABUTMENTS AND AT OTHER LOCATIONS AS DETERMINED NECESSARY BY THE ENGINEER.

2. 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.

3. THE INSIDE EDGE OF THE MARKER SHALL BE IN LINE WITH THE INNER EDGE OF THE OBSTRUCTION.

REV	REVISION	
DATE	ISSUE DATE:	MAY 2017

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN
HIGHWAY SIGN AND
BARRICADE DETAILS
FOR CONSTRUCTION
PROJECTS**



 WORKING NUMBER: ICP-5
 SHEET NUMBER: 03500

STATE MISS.	PROJECT NO.	
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MOBILE OPERATIONS ON MULTILANE ROAD

MOBILE OPERATIONS ON MULTILANE ROAD

NOTES FOR MULTILANE LANE OPERATION:

- VEHICLES USED FOR THESE OPERATIONS SHOULD BE MADE HIGHLY VISIBLE WITH APPROPRIATE EQUIPMENT, SUCH AS FLASHING LIGHTS, ROTATING BEACONS, FLASGS, SIGNS, OR ARROW PANELS.
- SHADOW VEHICLE 2 SHOULD BE EQUIPPED WITH AN ARROW PANEL AND TRUCK MOUNTED ATTENUATOR (TMA), AN APPROPRIATE LANE CLOSURE SIGN SHOULD BE USED BEHIND SHADOW VEHICLE 2 SO AS NOT TO OBSCURE THE ARROW PANEL.
- SHADOW VEHICLE 1 SHOULD BE EQUIPPED WITH AN ARROW PANEL AND TRUCK MOUNTED ATTENUATOR (TMA).
- SHADOW VEHICLE 2 SHOULD TRAVEL AT A VARYING DISTANCE FROM THE WORK OPERATION SO AS TO PROVIDE ADEQUATE SIGHT DISTANCE FOR TRAFFIC APPROACHING FROM THE REAR.
- WHEN ADEQUATE SHOULDER WIDTH IS NOT AVAILABLE, SHADOW VEHICLE 2 SHOULD BE ELIMINATED.
- ON HIGH-SPEED ROADWAYS, A THIRD SHADOW VEHICLE SHOULD BE USED (i.e., VEHICLE 3 ON THE SHOULDER OF PRACTICALLY, VEHICLE 2 IN THE CLOSED LANE, AND VEHICLE 1 IN THE CLOSED LANE).
- ARROW PANELS SHALL BE AS A MINIMUM, TYPE B, 60" X 30", IN ACCORDANCE WITH THE CRITERIA PRESENTED IN THE MUTCD.
- WORK SHOULD NORMALLY BE DONE DURING OFF-PEAK HOURS.
- VEHICLE-MOUNTED SIGNS SHOULD BE MOUNTED WITH THE BOTTOM OF THE SIGN LOCATED AT A MINIMUM HEIGHT OF 48" ABOVE THE PAVEMENT AND SHALL NOT BE OBTURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.
- 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.

MOBILE OPERATIONS ON TWO-LANE ROAD

MOBILE OPERATIONS ON TWO-LANE ROAD

NOTES FOR TWO-LANE OPERATION:

- WHERE PRACTICAL AND WHEN NEEDED, THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS. IF THIS CAN NOT BE DONE FREQUENTLY AS AN ALTERNATIVE, A "DO NOT PASS" SIGN MAY BE PLACED ON THE REAR OF THE VEHICLE BLOCKING THE LANE.
- THE DISTANCE BETWEEN THE WORK AND SHADOW VEHICLES MAY VARY ACCORDING TO TERRAIN, PAINT DRYING TIME, AND OTHER FACTORS. SHADOW VEHICLES ARE USED TO WARN TRAFFIC OF THE OPERATION AHEAD. WHENEVER ADEQUATE SHOULD MAINTAIN THE MINIMUM DISTANCE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. THE SHADOW VEHICLE SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- ADDITIONAL SHADOW VEHICLES TO WARN AND REDUCE THE SPEED OF ONCOMING OR OPPOSING TRAFFIC MAY BE USED. POLICE PATROL CARS MAY BE USED FOR THIS PURPOSE.
- A TRUCK-MOUNTED ATTENUATOR (TMA) SHOULD BE USED ON THE SHADOW VEHICLE AND MAY BE USED ON THE WORK VEHICLE.
- THE WORK VEHICLE SHALL BE EQUIPPED WITH BEACONS AND THE SHADOW VEHICLE SHALL BE EQUIPPED WITH BEACONS AND LIGHTS. TRUCK-MOUNTED LIGHTS MOUNTED ON THE REAR, ADJACENT TO THE SIGN, SHADOW AND WORK VEHICLES SHALL DISPLAY FLASHING OR ROTATING BEACONS BOTH FORWARD AND TO THE REAR.
- VEHICLE-MOUNTED SIGNS SHOULD BE MOUNTED WITH THE BOTTOM OF THE SIGN LOCATED AT A MINIMUM HEIGHT OF 48" ABOVE THE PAVEMENT AND SHALL NOT BE OBTURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.
- ARROW BOARD TO BE USED IN CAUTION MODE.
- 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.

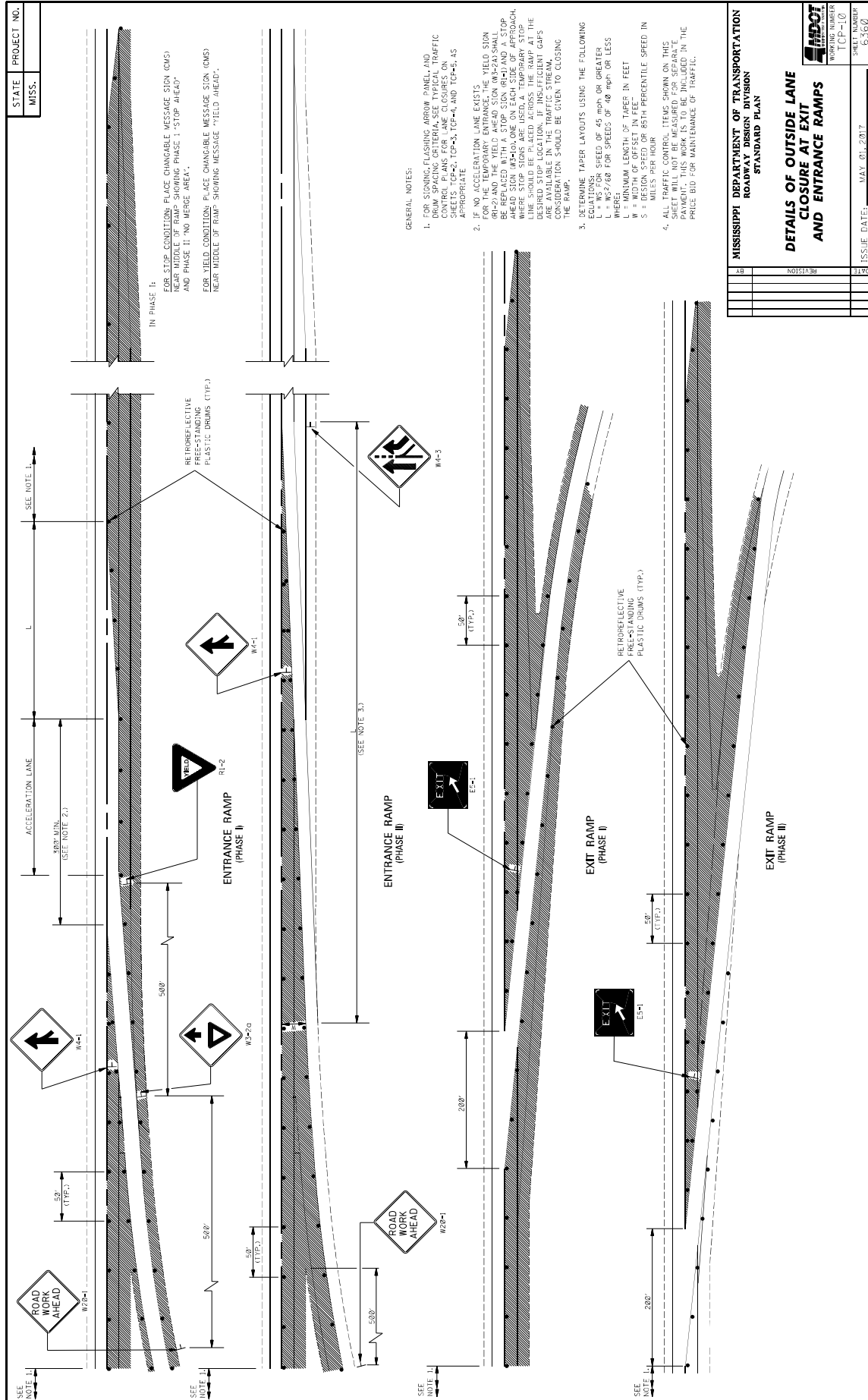
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MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

TRAFFIC CONTROL PLAN
MOBILE OPERATIONS
MULTILANE ROADS
TWO-LANE ROADS

ISSUE DATE: MAY 01, 2017

SHEET NUMBER
TCP-9
6333

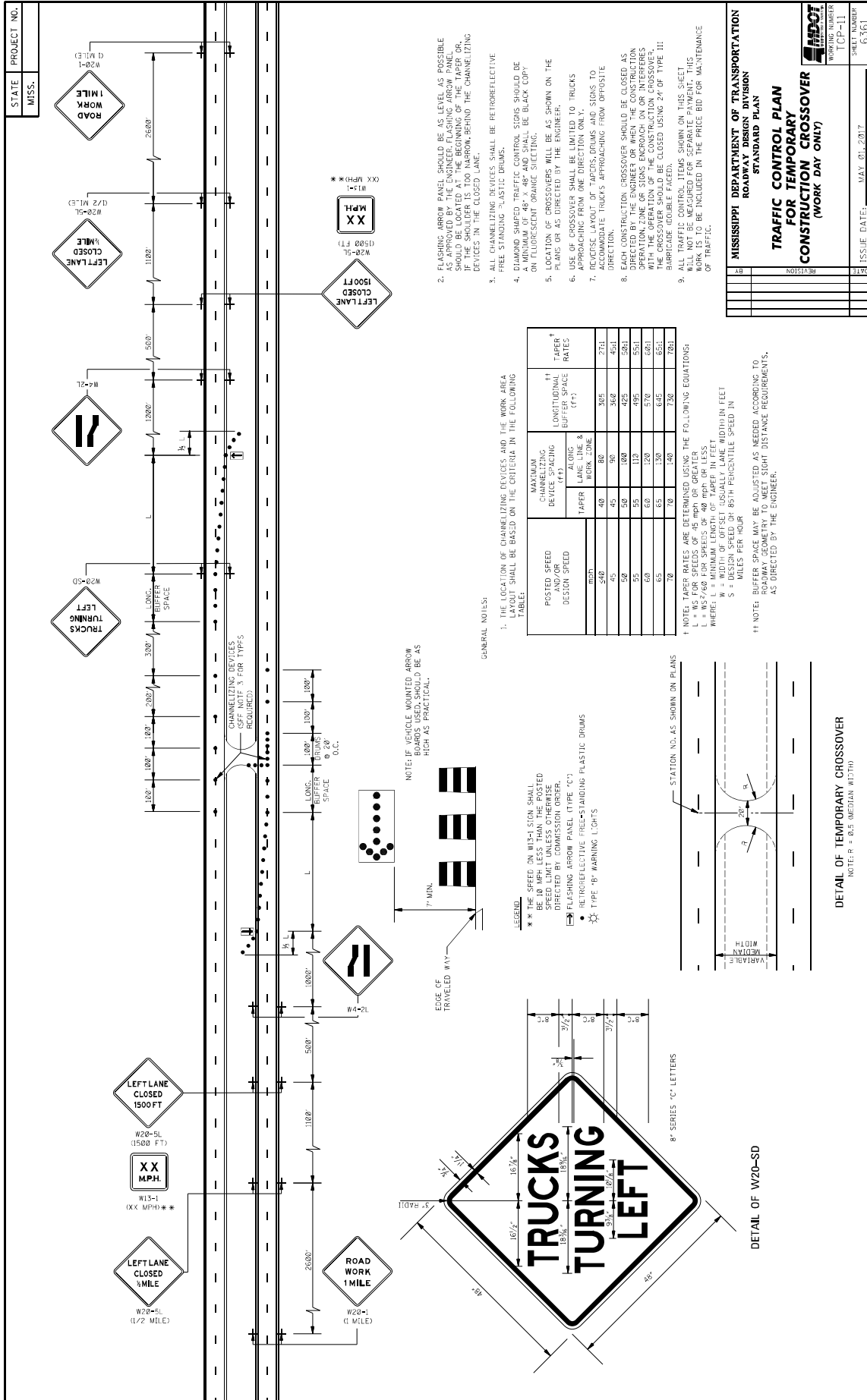


MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

DETAILS OF OUTSIDE LANE
CLOSURE AT EXIT
AND ENTRANCE RAMPS

DATE	REVISION

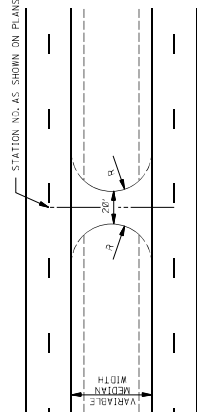
ISSUE DATE: MAY 01, 2017
SHEET NUMBER: TCP-110
WORKING NUMBER: G-300



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 CROSSOVERS 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 EARLY AS POSSIBLE AND KEPT CLOSED UNTIL THE OPERATION ZONE OF SIGNS ENOUGH ON OR INTERFERES WITH THE OPERATION OF THE CONSTRUCTION CROSSOVER. THE CROSSOVER SHOULD BE CLOSED USING 24" OF TYPE III BUFFER SPACE.
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.

GENERAL NOTES:

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 CROSSOVERS 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 EARLY AS POSSIBLE AND KEPT CLOSED UNTIL THE OPERATION ZONE OF SIGNS ENOUGH ON OR INTERFERES WITH THE OPERATION OF THE CONSTRUCTION CROSSOVER. THE CROSSOVER SHOULD BE CLOSED USING 24" OF TYPE III BUFFER SPACE.
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.



DETAIL OF TEMPORARY CROSSOVER
NOTE: P = 60% MEDIAN W/3710

DETAIL OF W20-SD

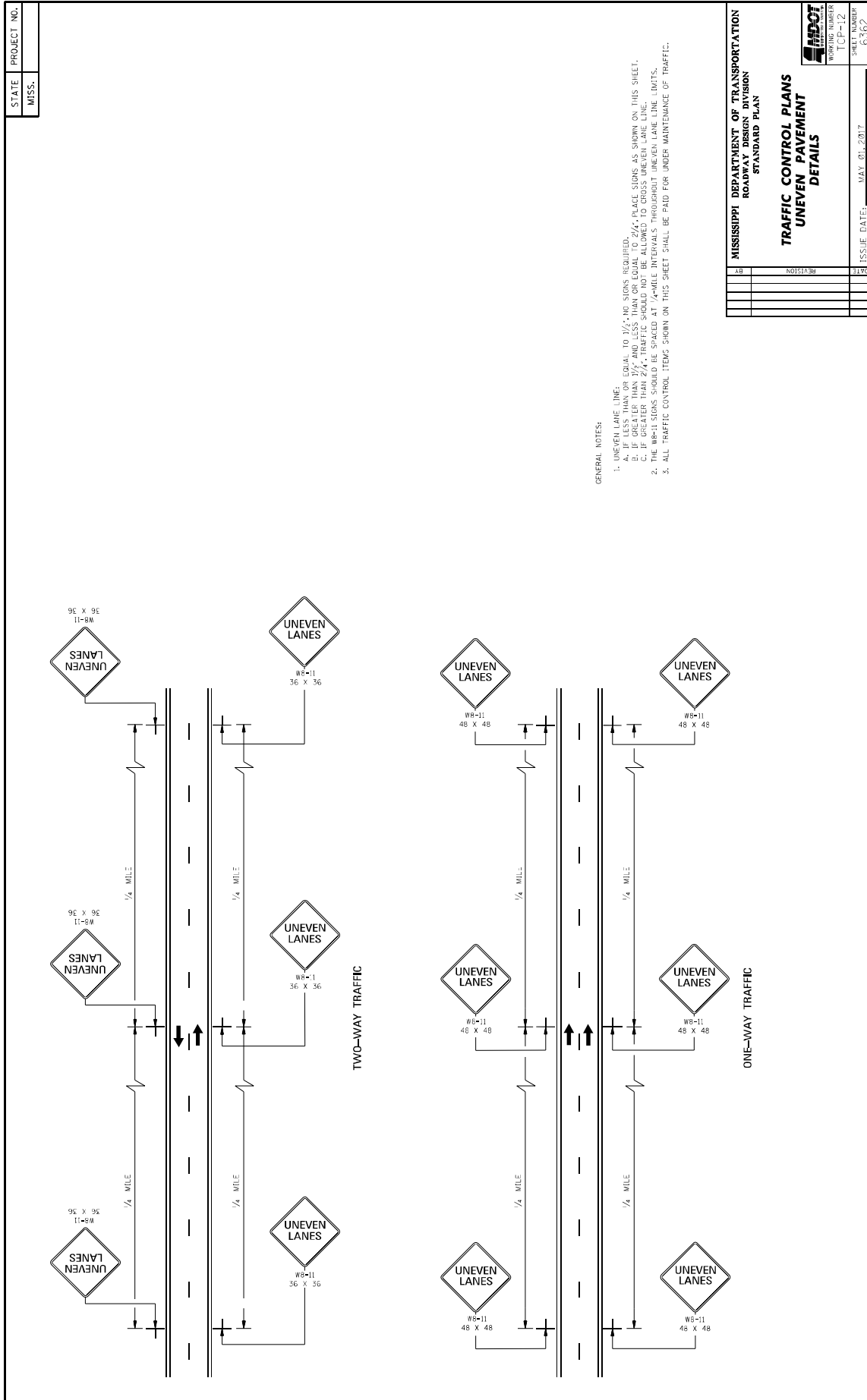
STATE PROJECT NO.
MISS.

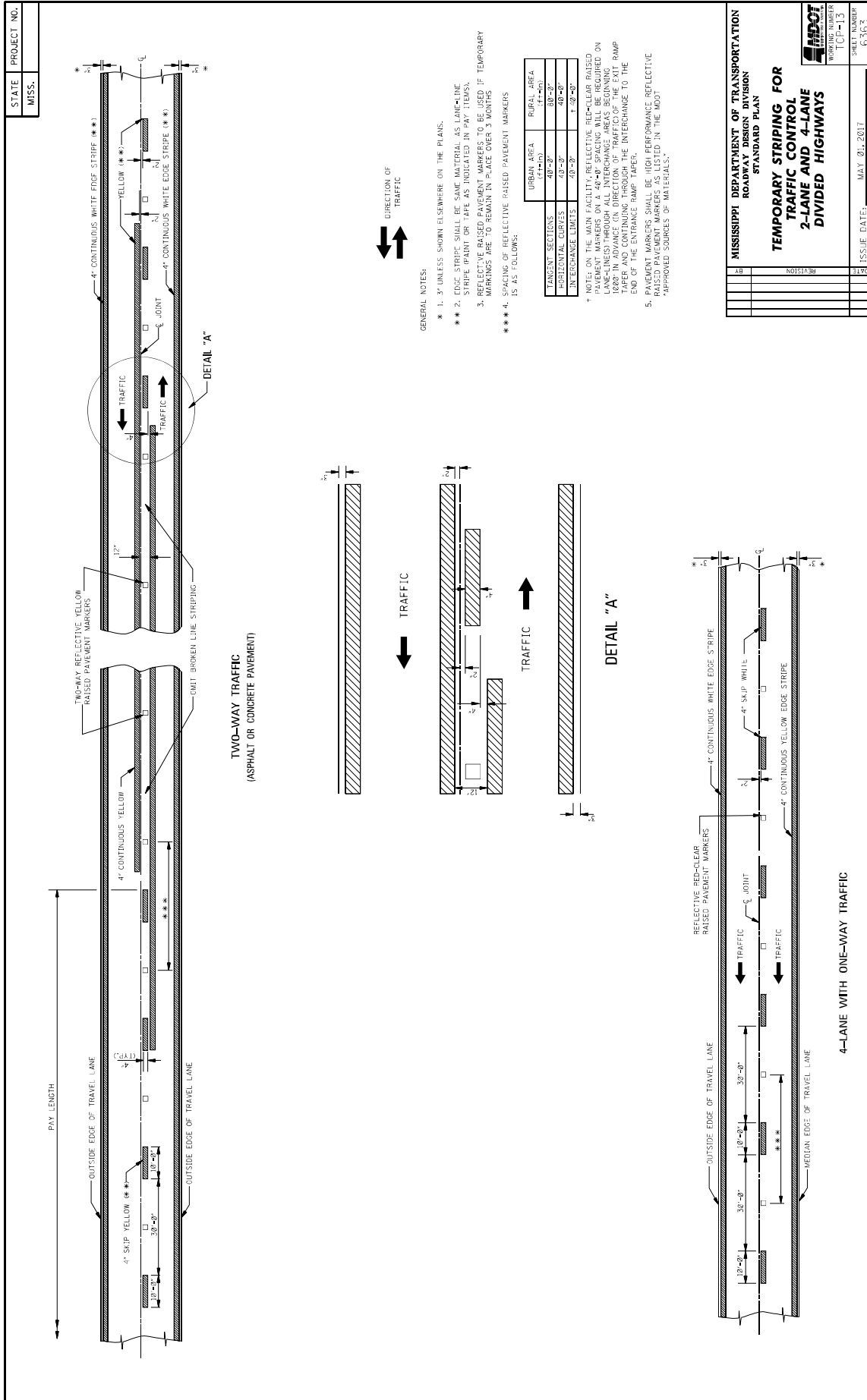
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN
**TRAFFIC CONTROL PLAN
FOR TEMPORARY
CONSTRUCTION CROSSOVER
(WORK DAY ONLY)**

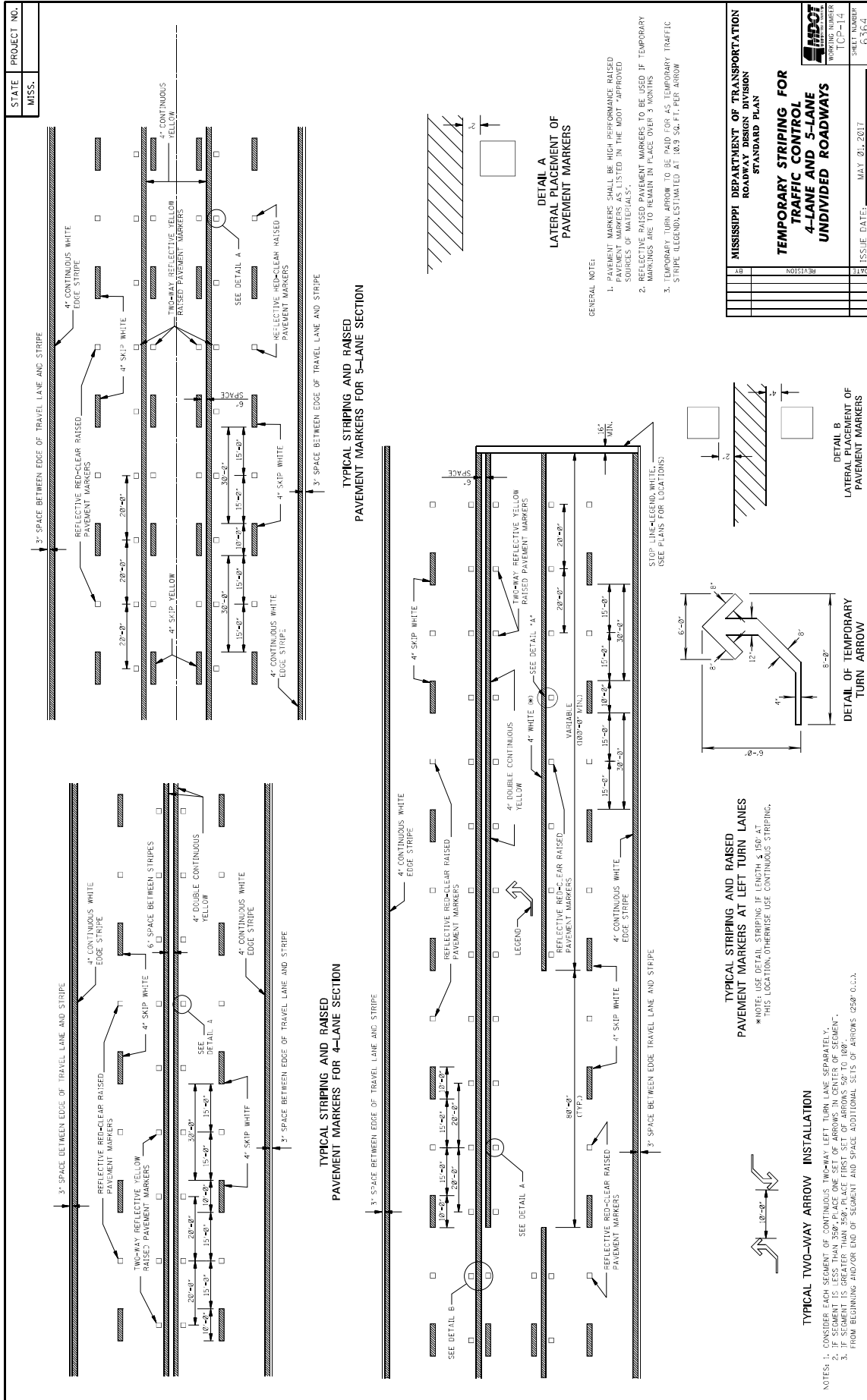
WORKING NUMBER
TCP-11

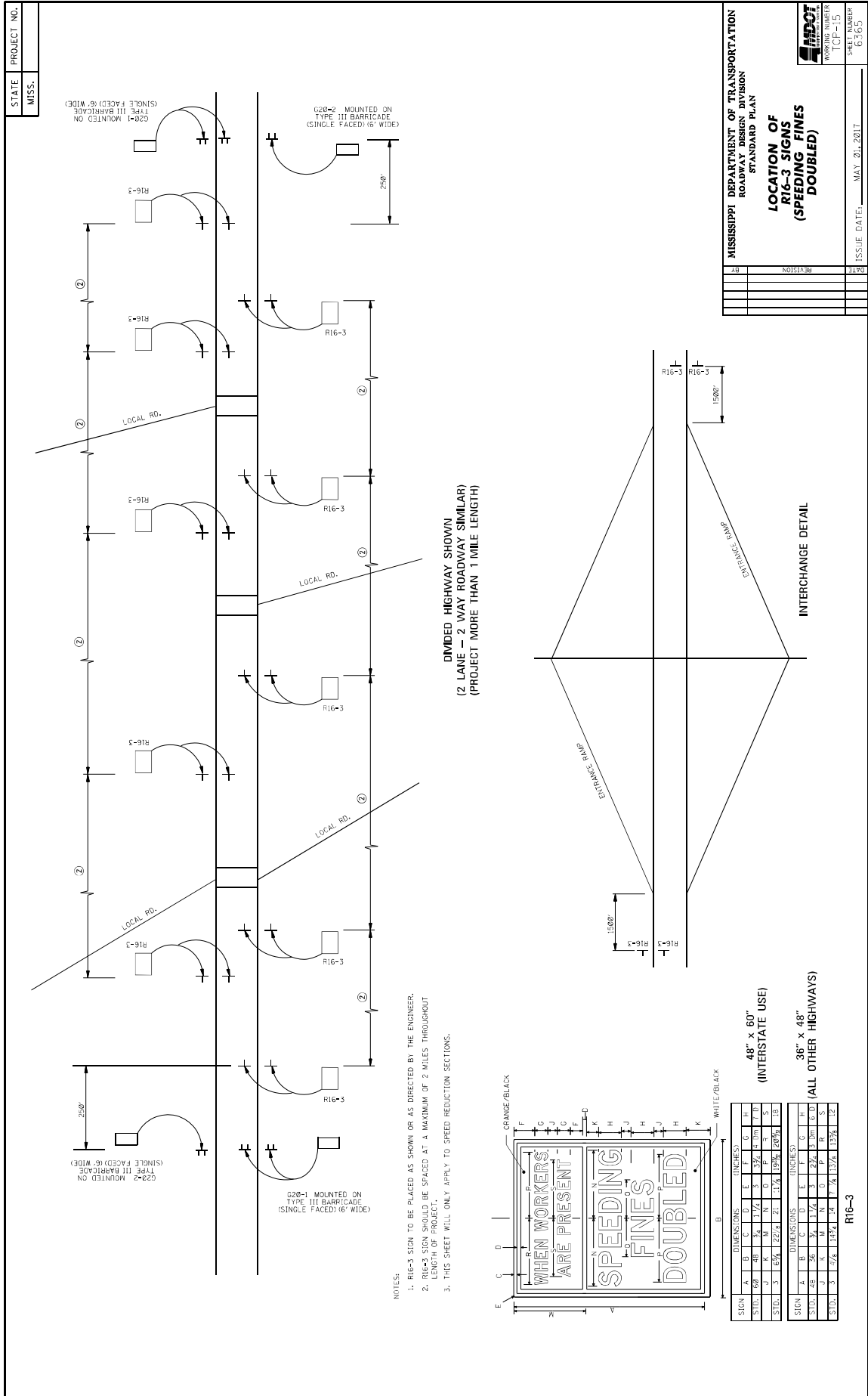
SHEET NUMBER
6361

ISSUE DATE: MAY 01, 2017

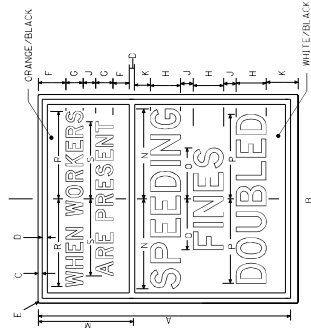








- NOTES:
1. R16-3 SIGN TO BE PLACED AS SHOWN OR AS DIRECTED BY THE ENGINEER.
 2. R16-3 SIGN SHOULD BE SPACED AT A MAXIMUM OF 2 MILES THROUGHOUT LENGTH OF PROJECT.
 3. THIS SHEET WILL ONLY APPLY TO SPEED REDUCTION SECTIONS.



DIMENSIONS (INCHES)	
SIGN	A B C D E F G H
STD. 1	60 48 3 1 1/4 5 5 1/2 4 1/2 1 1/2
STD. 2	60 48 3 1 1/4 5 5 1/2 4 1/2 1 1/2
STD. 3	48 36 3 1 1/4 5 5 1/2 4 1/2 1 1/2
SIGN DIMENSIONS (INCHES)	
SIGN	A B C D E F G H
STD. 1	60 48 3 1 1/4 5 5 1/2 4 1/2 1 1/2
STD. 2	60 48 3 1 1/4 5 5 1/2 4 1/2 1 1/2
STD. 3	48 36 3 1 1/4 5 5 1/2 4 1/2 1 1/2

48" x 60"
(INTERSTATE USE)

36" x 48"
(ALL OTHER HIGHWAYS)

R16-3

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

LOCATION OF R16-3 SIGNS (SPEEDING FINES DOUBLED)

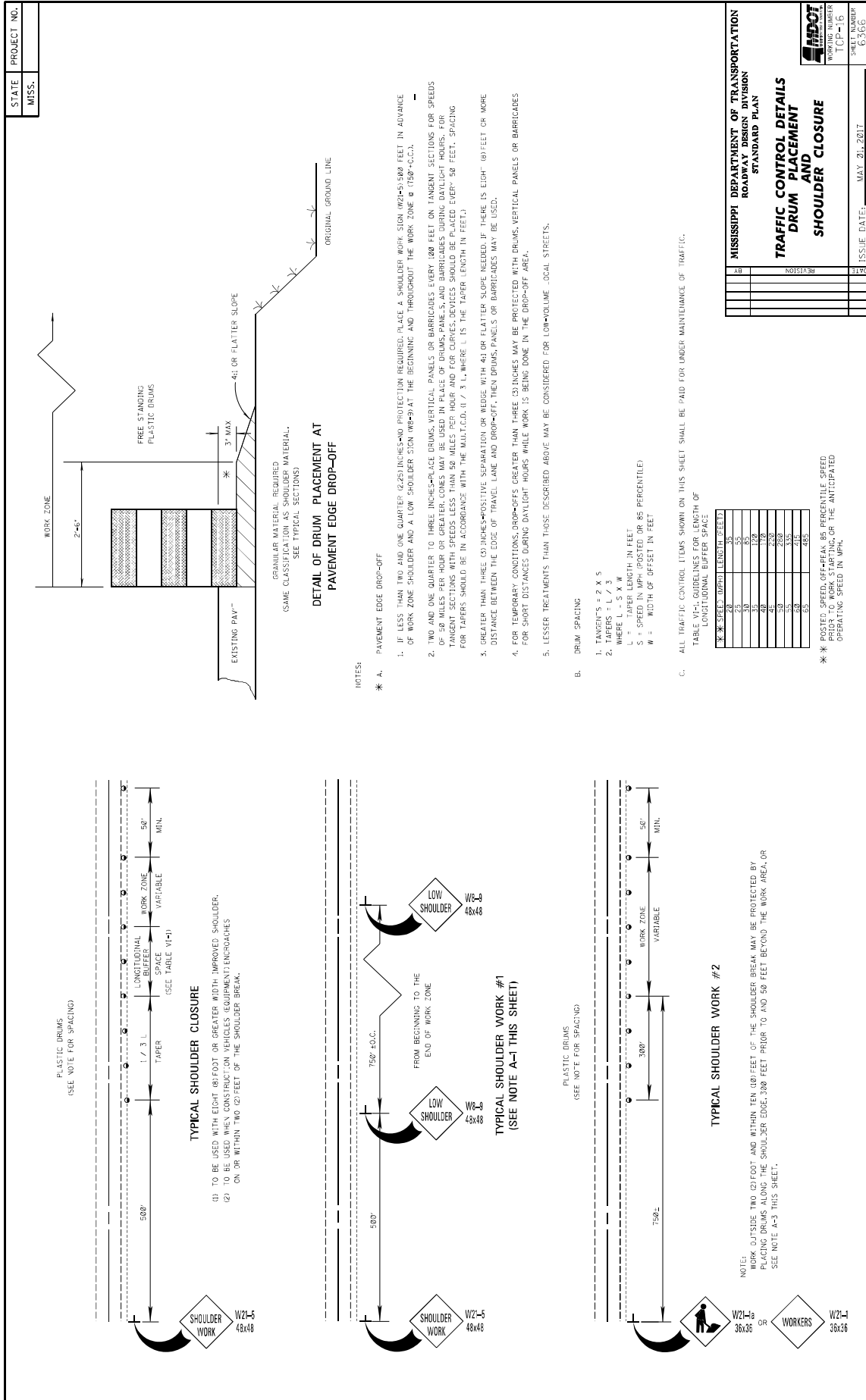
ISSUE DATE: MAY 21, 2017

WORKING NUMBER: ICF-15

SHR: JWB

63-663

DATE	BY	REVISION



MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN DIVISION
 STANDARD PLAN

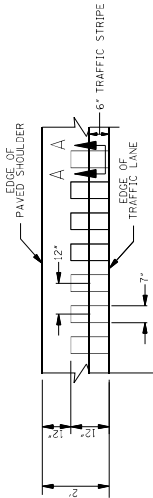
TRAFFIC CONTROL DETAILS
DRUM PLACEMENT
SHOULDER CLOSURE

REVISION	DATE

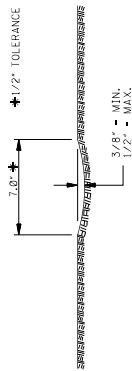
ISSUE DATE: MAY 20, 2017
 SHEET NUMBER: ICP-16
 PROJECT NUMBER: 63366

GENERAL NOTES

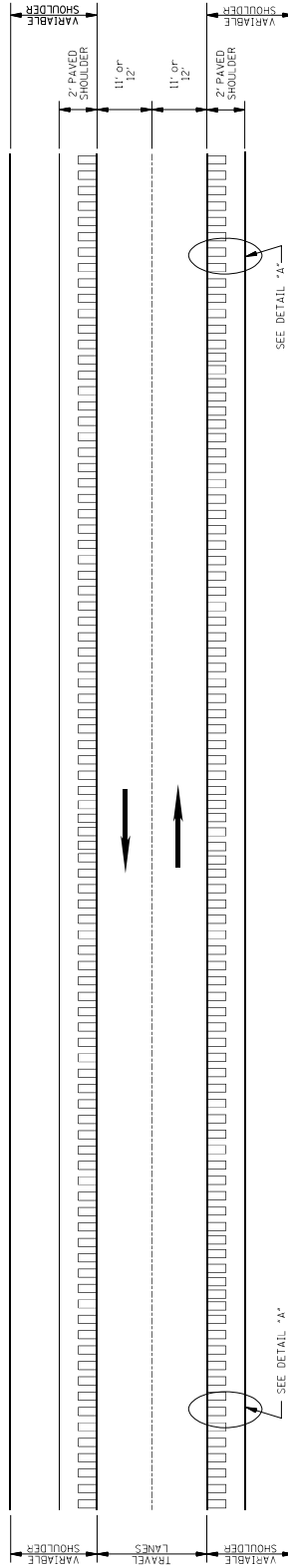
1. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL PAVED SHOULDERS OF ALL PAVED SHOULDERS ON THIS PROJECT.
2. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL INTERSECTIONS, ROADWAYS, AND OTHER INTERSECTIONS IN NORMAL SHOULDER WIDTH AS DIRECTED BY THE ENGINEER.
3. COST TO BE PAID FOR USING APPROPRIATE PAY ITEMS
4. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO:
 - A. MAINLINE
 - B. INTERSECTING ROADWAY IF OVERLAP OR RECONSTRUCTED BEYOND NORMAL MAINLINE R.O.W.
 - C. ANY ROADWAY WITH EXISTING RUMBLE STRIPES PRIOR TO CONSTRUCTION.
5. DO NOT USE WHERE TRAVEL LANE IS LESS THAN 11' WIDE.



SECTION "A-A"



SECTION "A-A"



PLAN
NOT TO SCALE

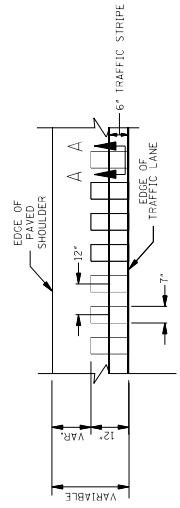
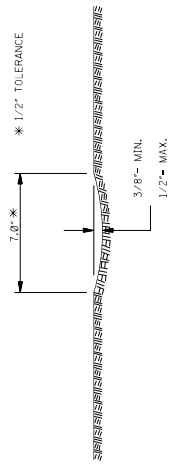
MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
ROADWAY DESIGN DIVISION	
STANDARD PLAN	
RUMBLE STRIPES 2-LANE HIGHWAYS (ASPHALT LANES, 2-FT ASPHALT SHOULDERS)	
DATE	ISSUE DATE: AUGUST 01, 2017
BY	
REVISION	
508	
DATE	
REVISION	
508	
DATE	
REVISION	
508	



STATE	PROJECT NO.
MISS.	

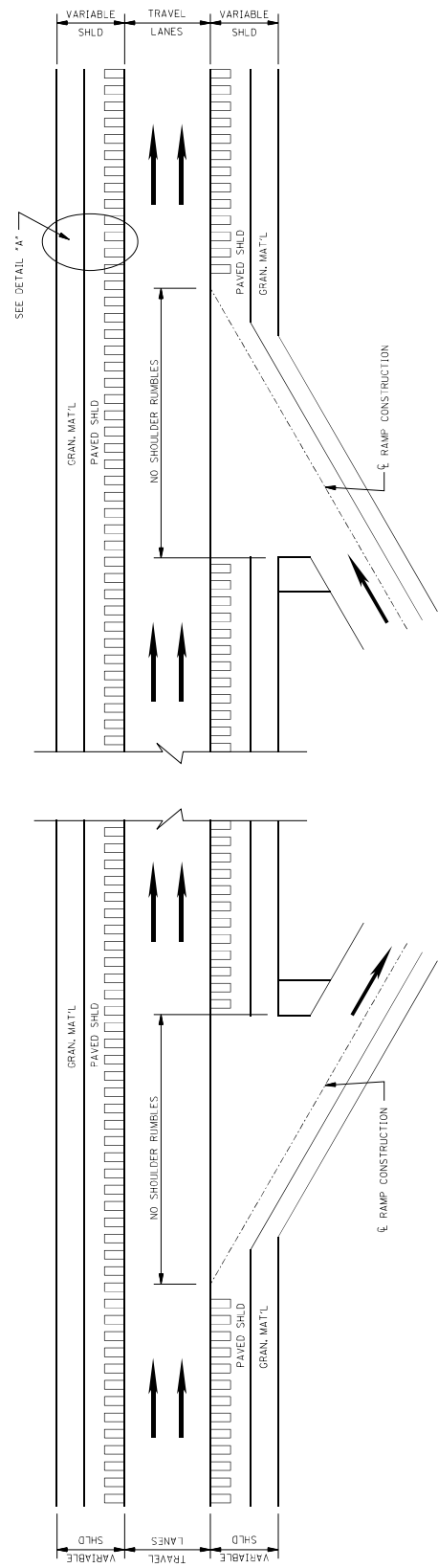
GENERAL NOTES

- GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL PAVED SHOULDERS OF ALL PAVED SHOULDERS ON THIS PROJECT.
- GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL PAVED SHOULDERS OF ALL PAVED ROADWAYS, INCLUDING INTERSECTIONS, NORMAL SHOULDERS 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 STRIPES

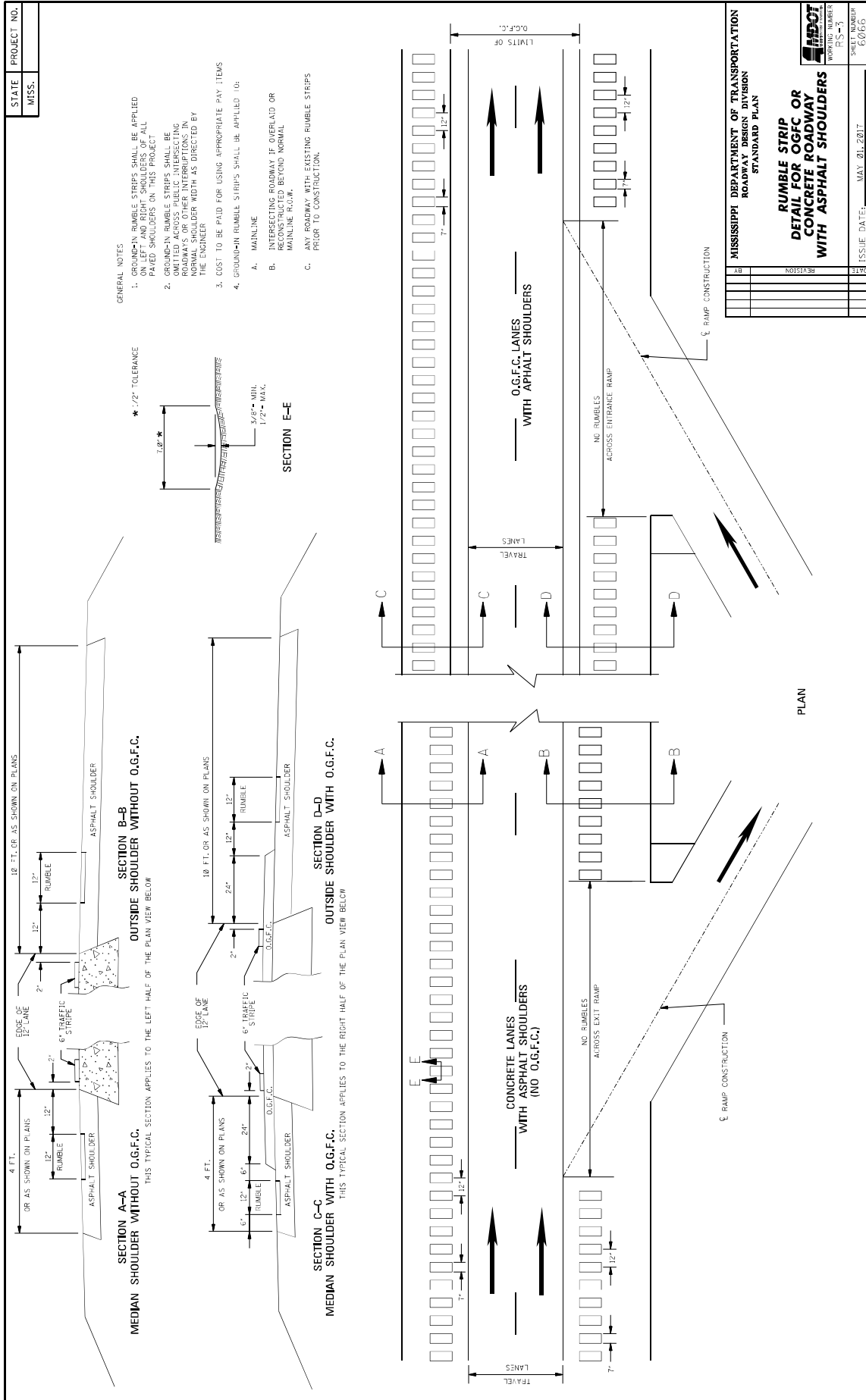
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

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

DATE: _____
BY: _____
REVISION: _____
DRAWN: _____
CHECKED: _____
DESIGNED: _____
LOCATION: _____

ISSUE DATE: AUGUST 01, 2017

PROJECT NUMBER: _____
SHEET NUMBER: 3S-2
SHEET TOTAL: 6 OF 6



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3539

CODE: (SP)

DATE: 07/13/2021

SUBJECT: Contract Time

PROJECT: MP-1041-58(003) / 307744302 – Pontotoc County

The calendar date for completion of work to be performed by the Contractor for this project shall be **October 25, 2021** which date or extended date as provided in Subsection 108.06 shall be the end of contract time. It is anticipated that the Notice of Award will be issued no later than **July 22, 2021** and the effective date of the Notice to Proceed / Beginning of Contract Time will be simultaneous with the execution of the contract.

The Contractor will be allowed to work 24 hours per day, 7 days per week with the exception of the restrictions shown in Notice to Bidders No. 3542, Lane Closure Restrictions and Additional Work Requirements.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3540

CODE: (SP)

DATE: 07/13/2021

SUBJECT: Scope of Work

PROJECT: MP-1041-58(003) / 307744302 – Pontotoc 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 and attachments set forth in this contract, is to repair a slide on SR 41, located approximately 550 feet North of the SR 41 & SR 15 Intersection, in Pontotoc County.

It is estimated that approximately 2 W20-1 “AHEAD” signs will be required. All costs for this to be absorbed in 618-A: Maintenance of Traffic.

STATE	PROJECT NUMBER	SHEET NO.
MISSISSIPPI	MP-1041-58(003)	1

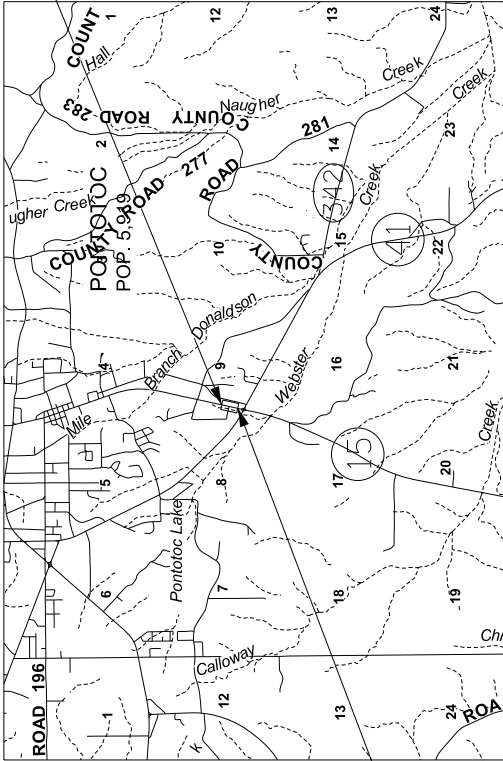
STATE OF MISSISSIPPI
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

**PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
STATE PROJECT NO. MP-1041-58(003)**

SR 41 Pontotoc Co Slide
PONTOTOC
FMS CON. NO. 307744/ 302000

PLAN 1 IN. = 100 FT.
PROFILE 1 IN. = 40 FT.
LAYOUT 1 IN. = 10 FT.

END OF PROJECT
STA. 1227+00



GENERAL INDEX

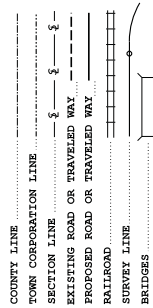
INCLUDED THIS PROJECT	BEGIN WITH SHEET
<input checked="" type="checkbox"/> ROADWAY	1
<input type="checkbox"/> PERMANENT SIGNS	1001
<input type="checkbox"/> TRAFFIC SIGNALS	2001
<input type="checkbox"/> ITS COMPONENTS	3001
<input type="checkbox"/> LIGHTING	4001
<input type="checkbox"/> (RESERVED)	5001
<input checked="" type="checkbox"/> ROADWAY STANDARD DWGS	6001
<input type="checkbox"/> BOX CULVERT STD. DRAWINGS (LRFD)	7001
<input type="checkbox"/> BOX CULVERT STD. DRAWINGS (STD. SPEC.)	7501
<input type="checkbox"/> BRIDGE	8001
<input type="checkbox"/> CROSS SECTIONS	9001

BRIDGE STRUCTURES REQ'D.

BOX BRIDGES REQ'D.

BEGINNING OF PROJECT
STA. 1223+00

CONVENTIONAL SYMBOLS



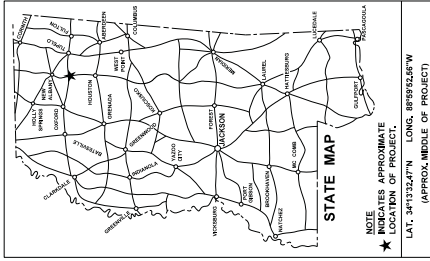
LENGTH OF ROADWAY
LENGTH OF BRIDGES
LENGTH OF PROJECT (NET)
LENGTH OF PROJECT (GROSS)
LENGTH OF PROJECT (BRIDGE)

EQUATIONS

LENGTH DATA

FT.
FT.
FT.
MIL.
MIL.
MIL.

EXCEPTIONS



NOTE
★ INDICATES APPROXIMATE LOCATION OF PROJECT.
L.A.T. 34°13'32.47"N LONG. 89°59'28.96"W
(APPROX. MIDDLE OF PROJECT)

DESIGN CONTROL

ADT () = , ADT () = ,
BW = , TD = , T = ,

PERMITS ACQUIRED BY AADOT

WETLANDS AND WATERS PERMITS

WATERS WETLANDS

NATIONALWIDE #/4

NATIONALWIDE (OTHER)*

GENERAL*

INDIVIDUAL (04)*

STORMWATER PERMIT

V REGULATED AREA OF WATERS

S DRAINAGE DISTRICT NO. 138 WATER

N NO STORMWATER PERMIT REQUIRED (1-1 ACRE)

APPROVED BY: _____

P S & E DATE:

APPROVED:

AB	REVISIONS	DATE

DEPUTY EXECUTIVE DIRECTOR / CHIEF ENGINEER

EXECUTIVE DIRECTOR



DESCRIPTION OF SHEET


WKG. NO. SH. NO.

- 1
- DI-1 2
- TS-2 3
- SQ-1 4
- SQ-2 5
- EQ-1 6
- SC-1 7
- WK1 8
- BE-1 6007
- PM-1 6051
- PM-11 6061
- EC0-1 6101
- EC0-2 6102
- EC0-3 6103
- EC0-4 6104
- EC0-5 6105
- EC0-6 6106
- EC0-11 6111
- PI-2 6502
- PC-1 6503
- B-9 6527
- SAG-1 6529
- UD-1 6533
- UD-2 6534

TITLE SHEET (1)
 DETAILED INDEX & GENERAL NOTES (1)
 DETAILED INDEX & GENERAL NOTES
 TYPICAL SECTION SHEETS (1)
 TYPICAL SECTION FOR MAINLINE SR 41
 QUANTITY SHEETS (3)
 SUMMARY OF QUANTITIES
 SUMMARY OF QUANTITIES
 ESTIMATED QUANTITIES
 SPECIAL DESIGN SHEETS (2)
 SEQUENCE SHEET
 PLAN PROFILE OF SR 41
 STANDARD DRAWINGS - ROADWAY SHEETS (16)
 BRIDGE END PAVEMENT WITH RAIL, OVERLAY, AND SLEEPER SLAB (NEW CONSTRUCTION)
 PAVEMENT MARKING-DETAILS FOR 2-LANE AND 4-LANE DIVIDED HIGHWAYS
 2-WAY RAISED PAVEMENT MARKERS AT INTERSECTING ROADS (2-LANE)
 TYPICAL TEMPORARY EROSION/SEDIMENT CONTROL APPLICATIONS
 DETAILS OF SEDIMENT BARRIER APPLICATIONS
 DETAILS OF SILT FENCE INSTALLATION
 DITCH CHECK STRUCTURES, TYPICAL APPLICATIONS AND DETAILS
 TEMPORARY EROSION, SEDIMENT, AND WATER POLLUTION CONTROL MEASURES
 DETAILS OF EROSION CONTROL WATTLE DITCH CHECK
 TYPICAL APPLICATIONS AND DETAILS FOR INLET CONSTRUCTION
 FLEXIBLE PIPE CULVERT INSTALLATION
 CONCRETE PIPE COLLAR
 DROP INLET AND GRATE DETAILS FOR PIPE AND BOX CULVERTS
 SMALL ANIMAL GUARD AND UNDERDRAIN MARKER
 DETAILS OF NORMAL UNDERDRAIN AND STORM DRAIN USED AS UNDERDRAIN
 NORMAL UNDERDRAIN TYPE II

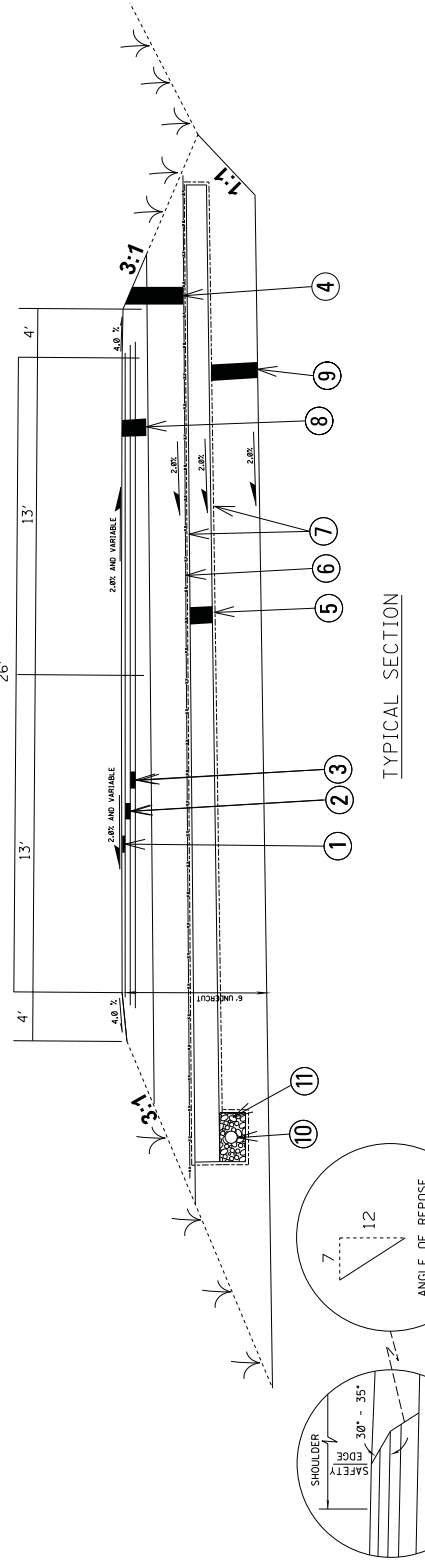
GENERAL NOTES

- (1) BIDDERS ARE ADVISED THAT HARD COPIES OF ANY ADDENDA FOR THIS PROJECT WILL NO LONGER BE MAILED. ALL ADDENDA FOR THIS PROJECT WILL BE POSTED TO www.mdot.ms.gov UNDER THE PROPOSAL ADDENDA COLUMN. IT IS THE BIDDER'S RESPONSIBILITY TO CHECK AND SEE IF ANY ADDENDA HAVE BEEN POSTED FOR THIS PROJECT. PLEASE CONTACT CONTRACT ADMINISTRATION DIVISION AT 601-359-7700 FOR ANY QUESTIONS REGARDING ELECTRONIC ADDENDA.
- (2) CONTRACTOR MUST MAINTAIN ACCESS TO RESIDENCES WITHIN LIMITS OF CONSTRUCTION.
- (3) Any reference to MEP-1041-58(003) 307744/301000 should be MP-1041-58(003) 307744/302000.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
	
DETAIL INDEX	
PROJ. NO.: MP-1041-58(003)	
COUNTY: PONTOTOC	
FILE NAME: SR41 PLANS.dwg	DATE
DESIGN TEAM	CHECKED
SHEET NUMBER	2

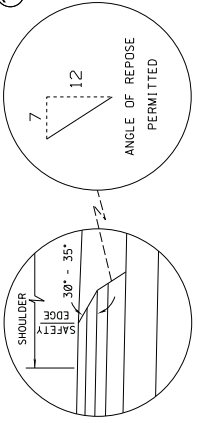
FMS CON: 307744/302000
STATE PROJECT NO.
MISS. MP-1041-58(003)

SR141



TYPICAL SECTION

STA 1224+00-1225+60
REMOVAL ASPHALT PAVEMENT, ALL DEPTHS (PAY ITEM 202-B007)
REQUIRED FOR THIS SECTION



**SAFETY EDGE REQ'D
TOP 2 LIFTS ONLY
(NOT A PAY ITEM)
NEW CONSTRUCTION**

-v-v- INDICATES AREA TO BE SOLID SODDED (PAY ITEM 216-A001)

- ① 1/2" 9.5-MM, ST, ASPHALT PAVEMENT (PAY ITEM 403-A0015)
- ② 2 1/2" 19-MM, ST, ASPHALT PAVEMENT (PAY ITEM 403-A0006)
- ③ 2 1/2" 19-MM, ST, ASPHALT PAVEMENT (PAY ITEM 403-A0006)
- ④ 29 1/2" OF CRUSHED STONE BASE, LVM
- ⑤ 12" SIZE III STABILIZER AGGREGATE, COARSE (PAY ITEM 310-B0006)
- ⑥ GEOTEXTILE, TYPE II, BIAXIAL (PAY ITEM 907-204-A0003)
- ⑦ GEOTEXTILE FOR SUBSURFACE DRAINAGE, TYPE V, NON-WOVEN (PAY ITEM 605-AA0003)
- ⑧ 12" AND VARIABLE REMOVAL OF ASPHALT, ALL DEPTHS (PAY ITEM 202-B007)
- ⑨ BORROW EXCAVATION, AH, FME, CLASS B9-6 (PAY ITEM 203-EX021)
- ⑩ 6" PERFORATED PIPE FOR UNDERDRAINS (PAY ITEM 605-0004)
- ⑪ FILTER MATERIAL FOR COMBINATION STORM DRAIN AND/OR UNDERDRAINS, TYPE A, FM (PAY ITEM 605-W001)

BY	DATE	DESIGN TEAM	CHECKED

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION

PROJ. NO.: MP-1041-58(003)
WORKING NUMBER: 15-1
COUNTY: PONTOTOC
FILE NAME: SR141 PLANS.dwg

FMS: 307744-301000


STATE	MISS	PROJECT NO.	MEP-1041-58(003)
-------	------	-------------	------------------

- ① QUANTITY INCLUDES 29.42 TONS FOR COUNTY RD.
- ② REMOVAL OF RETAINING WALL TO BE ABSORBED IN REMOVAL OF PIPE

SUMMARY OF QUANTITIES (SHEET 1)

PAY ITEM NO.	PAY ITEM	UNIT	PONTOTOC : 307744-301000	
			Prelim	Final
201-A001	Clearing and Grubbing	LS	1	
202-B007	Removal of Asphalt Pavement, All Depths	SY	463	
202-B191	Removal of Pipe, 8" And Above	LF	95	
203-A001	Unclassified Excavation, FM, AH	CY	225	
203-EX021	Borrow Excavation, AH, FME, Class B9-6	CY	950	
203-G001	Excess Excavation, FM, AH	CY	1,700	
907-204-A003	Geogrid, Type II, Biaxial	SY	700	
216-A001	Solid Sodding	SY	3,000	
219-A001	Watering	KGAL	2	
234-A001	Temporary Silt Fence	LF	460	
237-A002	Wattles, 20"	LF	100	
304-H001	3/4" and Down Crushed Stone Base, LVM	CY	590	
304-H002	OR Size 610 Crushed Stone Base, LVM	CY	590	
304-H003	OR Size 825B Crushed Stone Base, LVM	CY	590	
310-B006	Size III Stabilizer Aggregate, Coarse	CY	240	
403-A006	19-mm, ST, Asphalt Pavement	TON	140	
403-A015	9.5-mm, ST, Asphalt Pavement	TON	150	
406-A002	Cold Milling of Bituminous Pavement, All Depths	SY	570	
407-A001	Asphalt for Tack Coat	GAL	102	
503-C010	Saw Cut, Full Depth	LF	52	
601-B001	Class "B" Structural Concrete, Minor Structures	CY	4	
602-A001	Reinforcing Steel	LBS	186	
603-PE011	42" Corrugated Polyethylene Pipe	LF	305	
604-B001	Gratings	LBS	464	
605-AA003	Geotextile for Subsurface Drainage, Type V, Non-Woven	SY	700	
605-C004	6" Perforated Sewer Pipe for Underdrains, SDR 23.5	LF	160	
605-P004	6" Non-perforated Sewer Pipe for Underdrains, SDR 23.5	LF	367	
605-W001	Filter Material for Combination Storm Drain and/or Underdrains, Type A, FM	CY	12	
605-Z006	Underdrain Appurtenances, Small Animal Guard	EA	1	
618-A001	Maintenance of Traffic	LS	1	
618-B001	Additional Construction Signs	SF	1	
620-A001	Mobilization	LS	1	
619-A1002	Temporary Traffic Stripes, Continuous White	LF	570	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES



PROJ NO: MEP-1041-58(003)
 COUNTY: PONTOTOC

Working Number
 SQ-1

Sheet Number
 4


Revision

FILENAME: 307744_SQS
 Design Team Checked Date

FMS: 307744-301000
 STATE PROJECT NO.
 MISS MISS MEP-1041-58(003)

SUMMARY OF QUANTITIES (SHEET 2)

PAY ITEM NO.	PAY ITEM	UNIT	PONTOTOC : 307744-301000	
			Prelim	Final
619-A4001	Temporary Traffic Stripe, Skip Yellow	LF	285	
619-A5001	Temporary Traffic Stripe, Detail	LF	244	
619-A6002	Temporary Traffic Stripe, Legend	LF	45	
626-B003	6" Thermoplastic Traffic Stripe, Continuous White	LF	570	
626-D004	6" Thermoplastic Traffic Stripe, Skip Yellow	LF	285	
626-G002	Thermoplastic Detail Stripe, White	LF	160	
626-G003	Thermoplastic Detail Stripe, Yellow	LF	84	
626-H005	Thermoplastic Legend, White	LF	60	
627-J001	Two-Way Clear Reflective High Performance Raised Markers	EA	28	
627-L001	Two-Way Yellow Reflective High Performance Raised Markers	EA	10	
815-A002	Loose Riprap, Size 100	TON	24	

		Working Number	
		Sheet Number	5
MISSISSIPPI DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES		PROJ NO: MEP-1041-58(003)	
		COUNTY: PONTOTOC	
		FILENAME: 307744_SQS	
Design Team	Checked	Date	



MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ESTIMATED QUANTITIES
 PROJ. NO.: MP-1041-58(003)
 COUNTY: PONTOTOC
 WORKING NUMBER: EQ-1
 SHEET NUMBER: 6
 FILE NAME: SR41 PLANS.dwg
 DESIGN TEAM: _____
 DATE: _____

UNDERDRAIN QUANTITIES

6" PERFORATED SEWER PIPE			
STA	Left side	right side	
1224+00	1225+60	160	
total			160 LF

6" NON-PERFORATED SEWER PIPE			
STA	LEFT SIDE	RIGHT SIDE	NOTE
1224+00	82		OUTLET TO INLET @ 1224+02
1224+50	115		OUTLET TO INLET @ 1224+02
1225+00	140		OUTLET TO INLET @ 1224+02
1225+50	30		OUTLET TO APRON
total			367 LF

FILTER MATERIAL TYPE A			
side	length	cu. Yds/ft	c.u. Yds
left	160	0.0638	10.208
right			
Total			10.208 CY

RODENT GUARD			
STA	left side	right side	
1224+00			
1224+50			
1225+00			
1225+50	1		
total			1 EA

CLASS B STRUCTURAL CONCRETE			
STA	left side	right side	
1224+00			
1224+50			
1225+00			
1225+50		1	
total			0.363 CY

FMS CON: 3074470200
PROJECT NO.
STATE MISS.
MP-1041-58(003)

LANDSLIDE REPAIR CONSTRUCTION SEQUENCE

- A. ESTABLISH EROSION AND SEDIMENTATION CONTROL.
- B. EXCAVATE ROADWAY BETWEEN STA 1224+00 TO STA 1225+60 AS DIRECTED BY THE ENGINEER.
- C. PLACE AND COMPACT BORROW EXCAVATION CLASS B9-6, IN ACCORDANCE WITH MDOT STANDARD SPECIFICATIONS, SECTION 20303.8--EMBANKMENT CONSTRUCTION.
- E. PLACE TYPE V, NON-WOVEN GEOTEXTILE IN ACCORDANCE WITH MDOT STANDARD SPECIFICATIONS, SECTION 209--GEOTEXTILE STABILIZATION. PROVIDE 3- FEET (MIN) OVERLAP, AS SPECIFIED. CONSTRUCT NORMAL TYPE II UNDERDRAIN. UNDERDRAIN SHALL OUTLET TO B-9 INLET AT 1224+02.
- F. PLACE AND COMPACT LAYER OF SIZE III STABILIZER AGGREGATE. PLACE LAYER OF GEOTEXTILE FOR SUBSURFACE DRAINAGE THEN BIAIXIAL GEOGRID MATERIAL BETWEEN AGGREGATE LAYERS. WORK SHALL BE PERFORMED IN ACCORDANCE WITH MDOT STANDARD SPECIFICATIONS, SECTION 204--GEOGRID REINFORCEMENT OF EMBANKMENT SLOPES AND SUBGRADES.
- G. PREPARE DISTURBED SOIL AREAS AND SOD IN ACCORDANCE WITH MDOT SPECIFICATIONS, SECTION 216, AND AS DIRECTED BY THE ENGINEER.
- H. COMPACT ROADWAY SUBGRADE. PLACE AND COMPACT ROADWAY BASE AND PAVE ROADWAY IN ACCORDANCE WITH MDOT SPECIFICATIONS, SECTION 403.

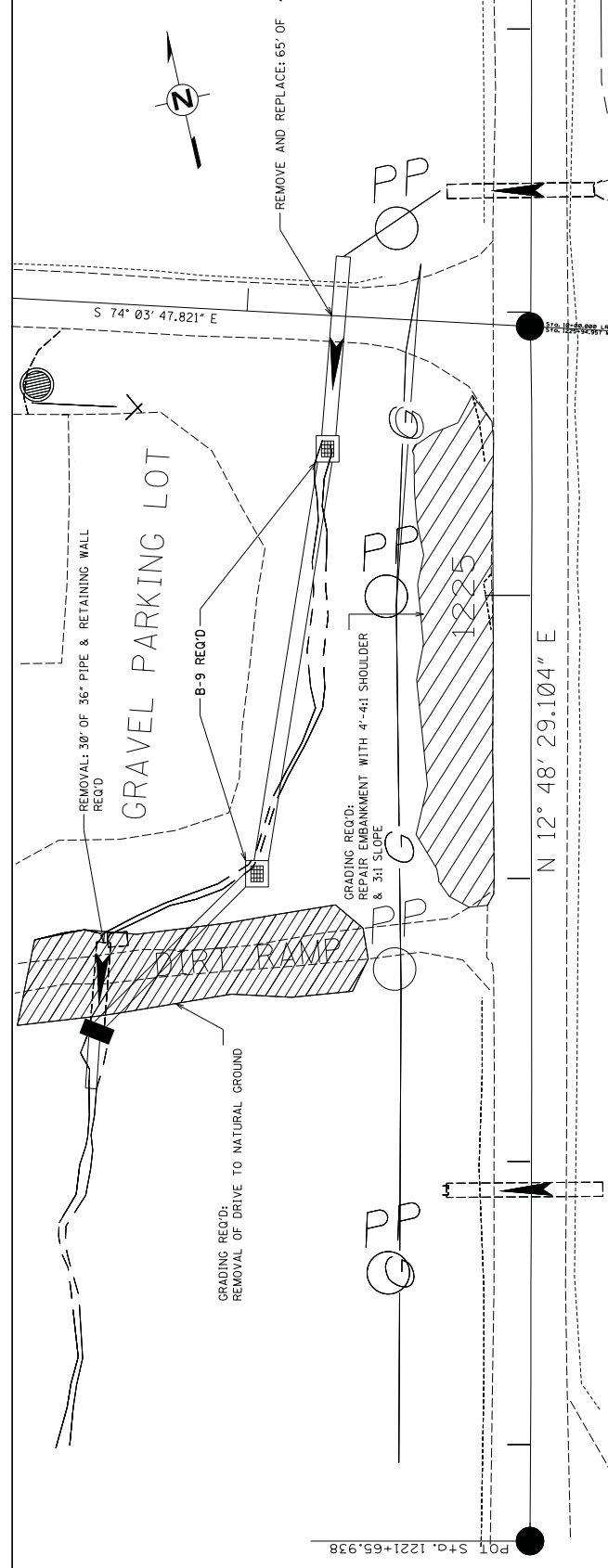
54

CONSTRUCTION NOTES

The Contractor Shall Ensure All Excavation Remains Drained And Free Of Excess Water Throughout Construction.

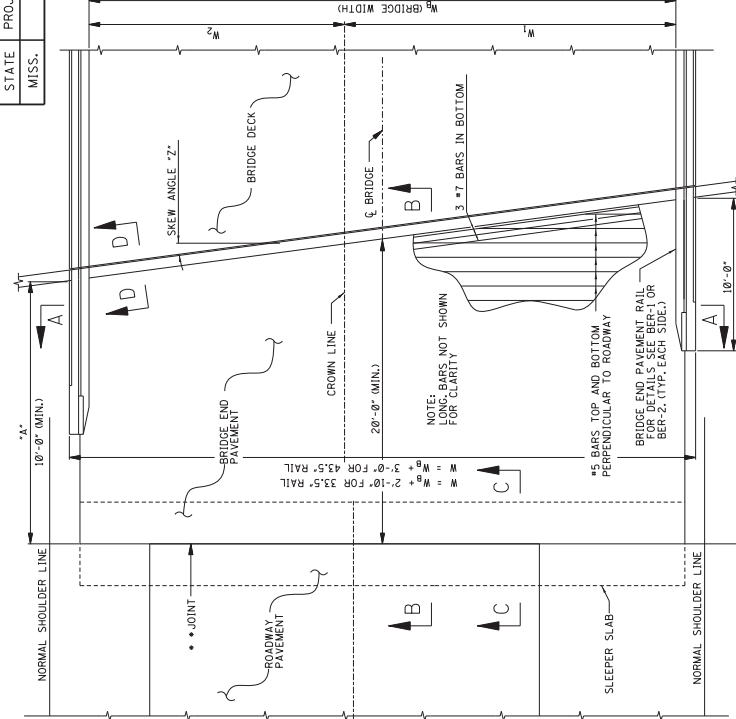
MISSISSIPPI DEPARTMENT OF TRANSPORTATION	SEQUENCE OF WORK
WORKING NUMBER SC-1	PROJ NO.: MP-1041-58(003)
SHEET NUMBER 7	COUNTY: PONTOTOC
DESIGN TEAM	FILE NAME: SERAI PLANS.dwg
DATE	DESIGNED

FMS CON: 30744/30200
 STATE PROJECT NO.
 MISS. MP-1041-58(003)

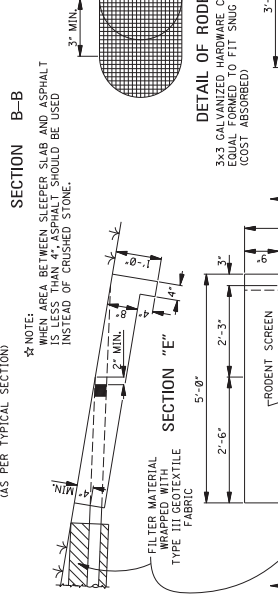
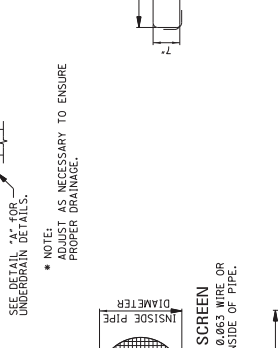
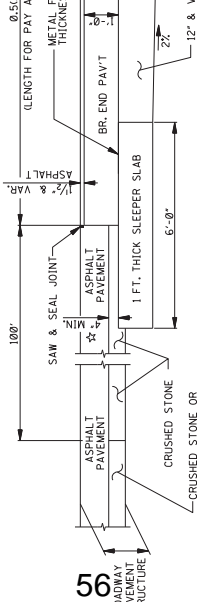
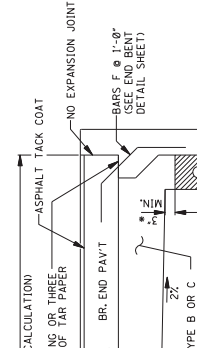
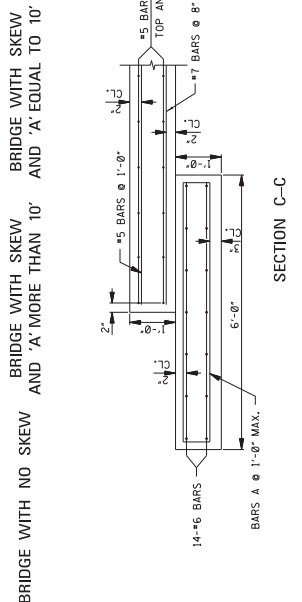
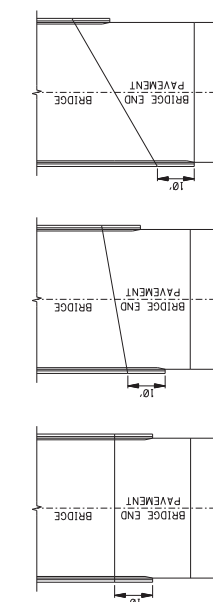
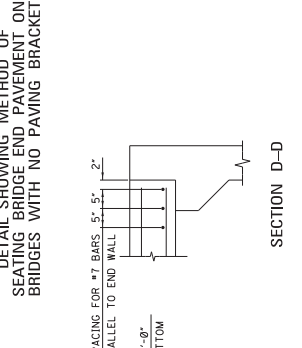
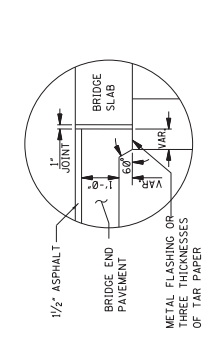
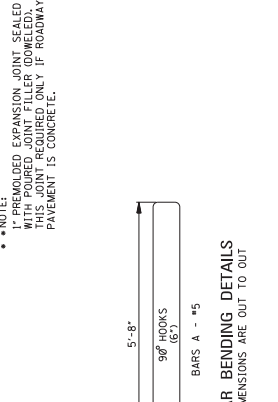
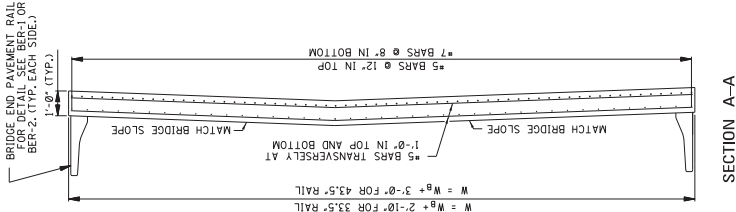


Station	Notes
406.27	
406.87	
407.49	
408.27	STA 1224+02 B-9 REQ'D LOWE 387.41 OPENINGS: 2@42'
408.95	
409.56	
410.15	
410.72	
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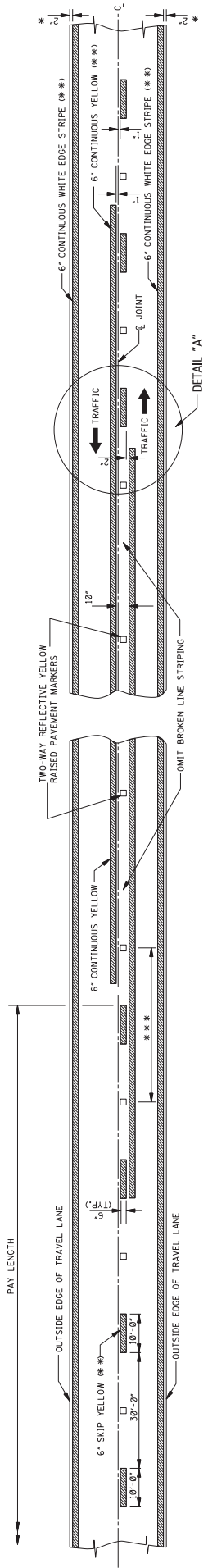
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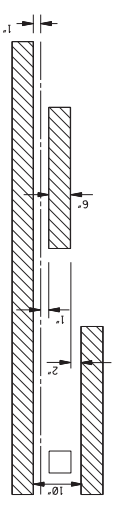
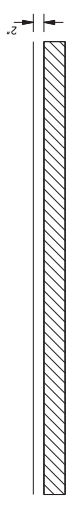
- PLAN AT BRIDGE END**
- GENERAL NOTES:
- IF BRIDGE END PAVEMENT IS CONSTRUCTED IN MORE THAN ONE SECTION, LONGITUDINAL CONSTRUCTION JOINTS WITH TIE BARS SHALL BE USED. THE BARS SHALL BE #5 BARS, 2'-6" LONG AND SPACED 2'-6" O.C., SUCH AS SHOWN IN SECTION A-A. THE BARS SHALL BE PERPENDICULAR TO THE ROADWAY EXCEPT IN NO CASE SHALL 'A' BE LESS THAN 10'-0".
 - DIMENSIONS 'A' AND 'B' ARE BASED ON A MID-LENGTH OF 20'-0".
 - SEE QUANTITY SECTION OF PLANS FOR DIMENSIONS 'W', 'W_B', 'W₁', 'W₂', 'A', 'B', SKEW ANGLE 'Z', AND QUANTITIES.
 - IF BRIDGE END PAVEMENT IS PERFORMED AS BE DESCRIBED, FULL LENGTH OR MAY BE SPICED WITH TIE BARS. THE TIE BARS SHALL BE PERFORMED AS BE DESCRIBED, FULL LENGTH OR MAY BE SPICED WITH TIE BARS. THE TIE BARS SHALL BE PERFORMED AS BE DESCRIBED, FULL LENGTH OR MAY BE SPICED WITH TIE BARS. THE TIE BARS SHALL BE PERFORMED AS BE DESCRIBED, FULL LENGTH OR MAY BE SPICED WITH TIE BARS.
 - IF TOP LIFT OF ASPHALT IS GREATER THAN 1.5', THE LIFT SHALL BE TRANSITIONED TO 1.5' ACROSS THE LENGTH OF THE BRIDGE END PAVEMENT.
 - THE BRIDGE END PAVEMENT PAY ITEM INCLUDES BRIDGE END PAVEMENT, SLEEPER SLAB, AND METAL FLASHING. ALL OTHER ITEMS SHOWN ON THIS SHEET ARE SEPARATE ITEMS TO BE QUANTIFIED AND PAID FOR SEPARATELY.
 - CLASS 'B' CONCRETE REQUIRED FOR SLEEPER SLAB AND BRIDGE END PAVEMENT. CLASS 'AA' CONCRETE MAY BE USED WITH APPROVAL OF THE ENGINEER (NO COST ADJUSTMENT WILL BE MADE).



- OUTLET APRON DETAIL**
- NOTE:
- 6x6 C.Y. CLASS 'C' CONCRETE REQUIRED FOR APRON.
 - SMALL ANIMAL GUARDS SHALL BE REQUIRED ON ALL EXPOSED PIPE OPENINGS BY THE END OF THE WORK DAY INSTALLED.
 - 4" PERFORATED DRAIN PIPE TO BE INSTALLED UNDER THE ROADWAY AND 2' OUTSIDE OF THE SHOULDER. 4" NON-PERFORATED DRAIN PIPE TO BE INSTALLED FOR THE REMAINDER TO THE OUTLET APRON.
 - CRUSHED STONE TO BE INSTALLED ON BOTH SIDES OF THE ROADWAY IN NORMAL CROWN SECTIONS AND ONLY ON THE LOW SIDE OF SUPERELEVATED SECTIONS.



TWO-WAY TRAFFIC
(ASPHALT OR CONCRETE PAVEMENT)



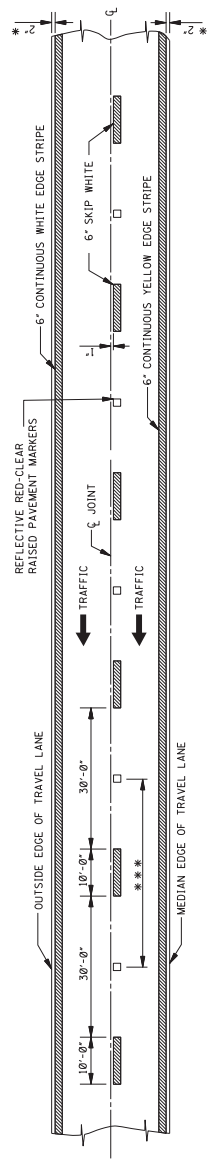
DETAIL "A"

NOTE: THE CRITERIA FOR NO-PASSING ZONES CAN BE FOUND IN THE MOOT ROADWAY DESIGN MANUAL, SECTION 11-1.01.

- GENERAL NOTES:
1. 2" UNLESS SHOWN ELSEWHERE ON THE PLANS, FOR STRIPING ON RUMBLE STRIP SECTIONS REFER TO WK. SHEETS RS-1, RS-2, AND RS-3.
 2. EDGE STRIPE SHALL BE SAME MATERIAL AS LANE-LINE STRIPE (PAINT OR PLASTIC AS INDICATED IN PAY ITEMS).
 3. SPACING OF REFLECTIVE RAISED PAVEMENT MARKERS IS AS FOLLOWS:

TANGENT SECTIONS	URBAN AREA	RURAL AREA
HORIZONTAL CURVES	40'-0"	80'-0"
INTERCHANGE LIMITS	40'-0"	40'-0"
	40'-0"	1-40'-0"

1. NOTE: ON THE MAIN FACILITY, REFLECTIVE RED-CLEAR RAISED PAVEMENT MARKERS ON A 40'-0" SPACING WILL BE REQUIRED ON ALL INTERCHANGES AND RAMP ENTRIES. REFLECTIVE RAISED PAVEMENT MARKERS SHALL BE REQUIRED ON RAMP ENTRIES AND INTERCHANGES. REFLECTIVE RAISED PAVEMENT MARKERS SHALL BE REQUIRED ON RAMP ENTRIES AND INTERCHANGES. REFLECTIVE RAISED PAVEMENT MARKERS SHALL BE REQUIRED ON RAMP ENTRIES AND INTERCHANGES. REFLECTIVE RAISED PAVEMENT MARKERS SHALL BE REQUIRED ON RAMP ENTRIES AND INTERCHANGES.
4. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE REFLECTIVE. RAISED PAVEMENT MARKERS AS LISTED IN THE MOOT. *APPROVED SOURCES OF MATERIALS.*



4-LANE WITH ONE-WAY TRAFFIC

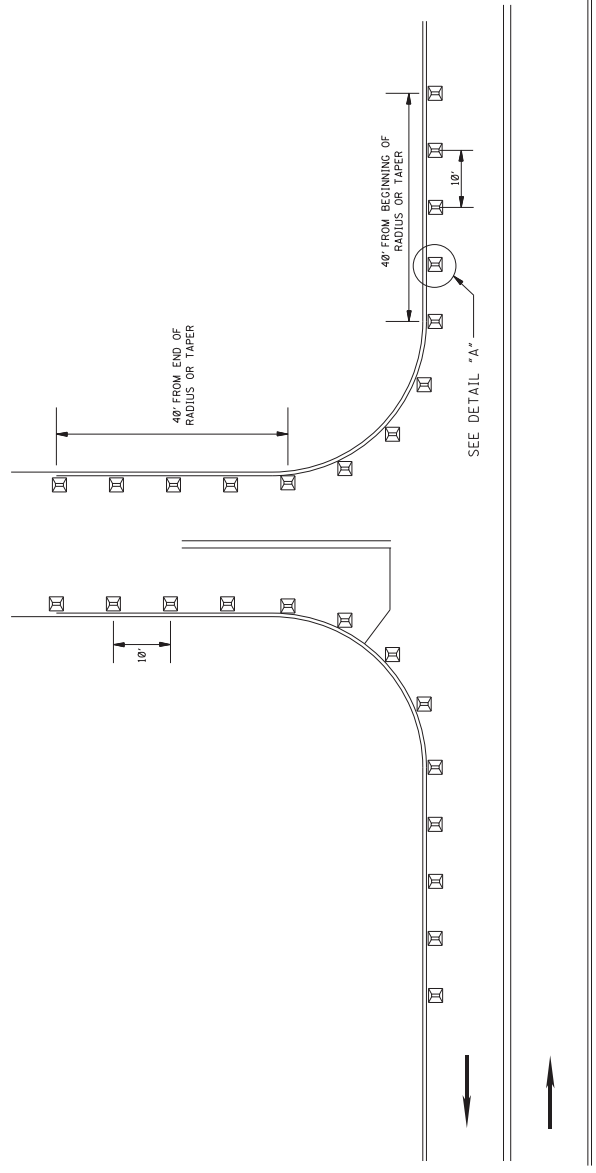
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**PAVEMENT MARKING
DETAILS FOR
2-LANE AND 4-LANE
DIVIDED ROADWAYS**

DATE	REVISION

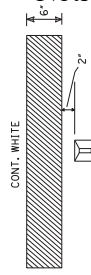
ISSUE DATE: AUGUST 01, 2017
SHEET NUMBER: 6/051

TYPICAL PLACEMENT OF RAISED PAVEMENT MARKERS ON SIDE ROAD RADIUS 2-LANE, TWO WAY TRAFFIC



GENERAL NOTES:

1. MARKERS SHALL BE VISIBLE FROM THE TRAVELING MOTORIST ON STATE DESIGNATED HIGHWAYS.
2. MARKERS SHALL BE HIGH PERFORMANCE TWO-WAY CLEAR.
3. MARKERS SHALL NOT BE ROTATED WHEN BEING PLACED ALONG RADIUS AND TANGENT SECTION OF LOCAL ROAD.
4. MARKERS SHALL BE INSTALLED AT SIMPLE AND CHANNELIZED INTERSECTIONS TO THE LIMITS SHOWN ABOVE.



DETAIL A

↑ DIRECTION OF TRAFFIC

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

2-WAY RAISED PAVEMENT MARKERS AT INTERSECTING ROADS (2-LANE)

DATE	REVISION

ISSUE DATE: AUGUST 01, 2017

WORKING NUMBER: PM-11
SHEET NUMBER: 6061

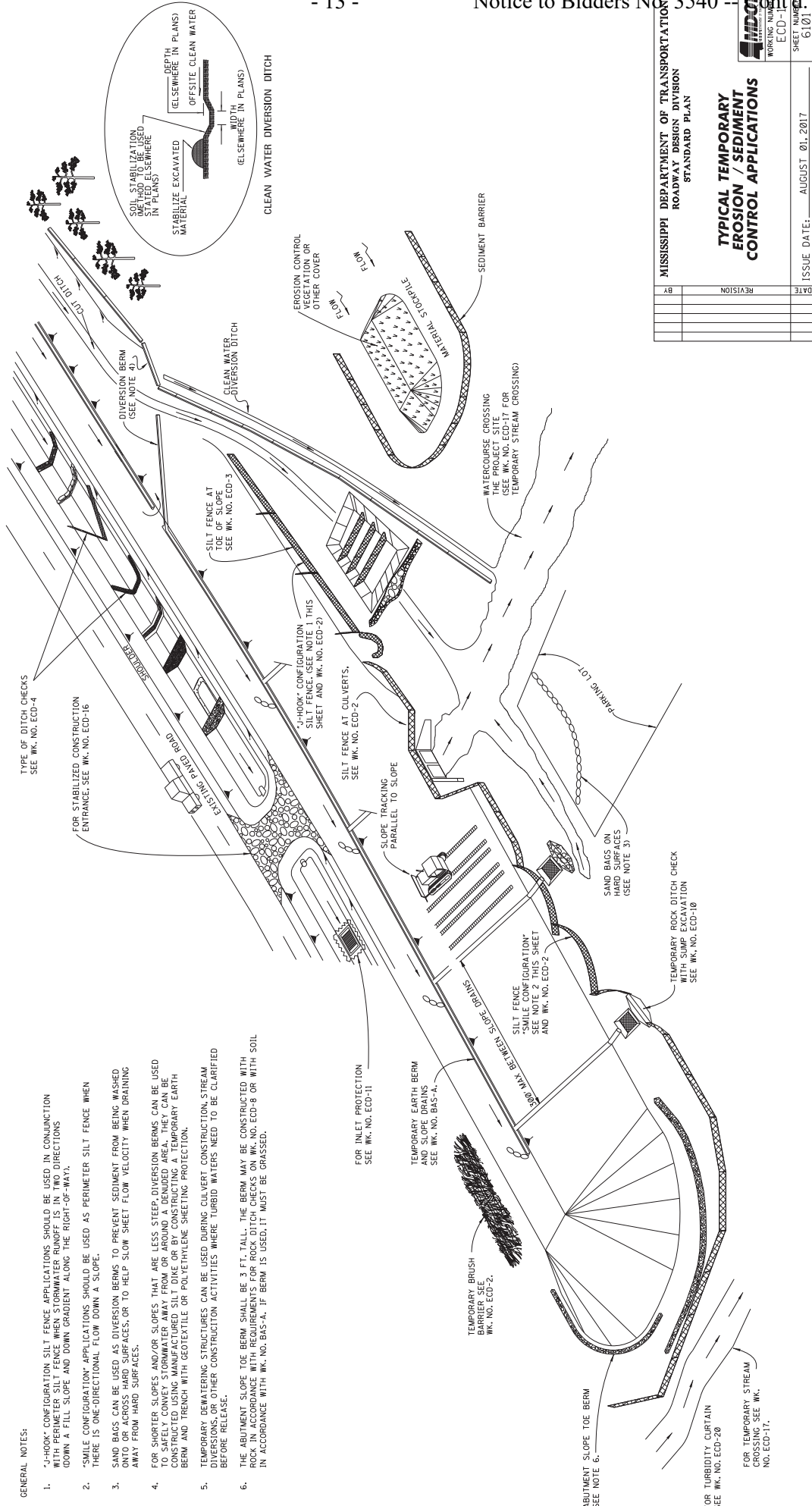
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**TYPICAL TEMPORARY
EROSION / SEDIMENT
CONTROL APPLICATIONS**

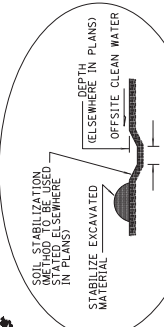
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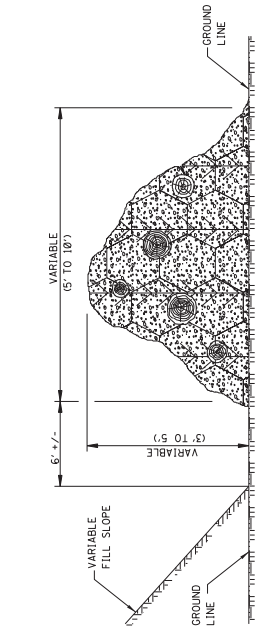
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ISSUE DATE: AUGUST 01, 2017



- GENERAL NOTES:
1. "J-HOOK" CONFIGURATION SILT FENCE APPLICATIONS SHOULD BE USED IN CONJUNCTION WITH "SMILE" CONFIGURATION SILT FENCES TO PREVENT FLOW FROM GOING IN BOTH DIRECTIONS DOWN A FILL SLOPE AND DOWN GRADIENT ALONG THE RIGHT-OF-WAY.
 2. "SMILE CONFIGURATION" APPLICATIONS SHOULD BE USED AS PERIMETER SILT FENCE WHEN THERE IS ONE-DIRECTIONAL FLOW DOWN A SLOPE.
 3. SAND BAGS CAN BE USED AS DIVERSION BERMS TO PREVENT SEDIMENT FROM BEING WASHED ONTO OR ACROSS HARD SURFACES OR TO HELP SLOW SHEET FLOW VELOCITY WHEN DRAINING AWAY FROM HARD SURFACES.
 4. FOR SHARPER SLOPES AND/OR SLOPES THAT ARE LESS STEEP DIVERSION BERMS CAN BE USED TO SHELTER CONTOUR STRIPWAYS FROM OR ALONG SLOPES. DIVERSION BERMS SHOULD BE CONSTRUCTED USING MANUFACTURED SILT DIKE OR BY CONSTRUCTING A TEMPORARY EARTH BERM AND TRENCH WITH GEOTEXTILE OR POLYETHYLENE SHEETING PROTECTION.
 5. TEMPORARY DEWATERING STRUCTURES CAN BE USED DURING CULVERT CONSTRUCTION. STREAM DRAINAGE AND OTHER CONSTRUCTION ACTIVITIES WHERE TURBID WATERS NEED TO BE CLARIFIED BEFORE RELEASE.
 6. THE ABUTMENT SLOPE TOE BERM SHALL BE 3 FT. TALL. THE BERM MAY BE CONSTRUCTED WITH ROCK IN ACCORDANCE WITH REQUIREMENTS FOR ROCK DITCH CHECKS ON WK. NO. ECD-8 OR WITH SOIL IN ACCORDANCE WITH WK. NO. BAS-A. IF BERM IS USED, IT MUST BE GRASSED.



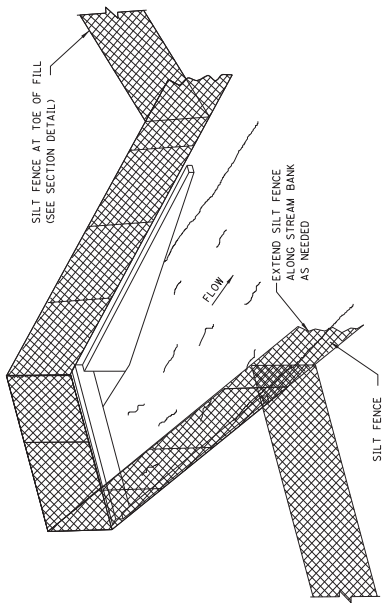


FRONT ELEVATION

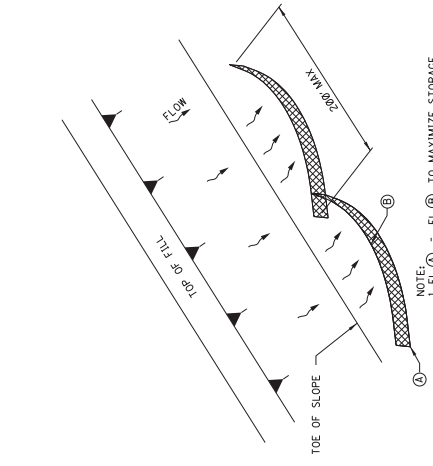
SIDE ELEVATION

TEMPORARY BRUSH BARRIER

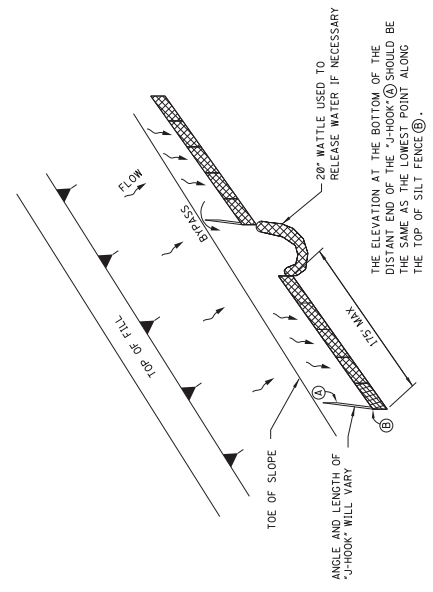
- NOTES:
- BRUSH BARRIER MAY BE USED WHERE NATURAL GROUND IS LEVEL OR SLOPING AWAY FROM PROJECT.
 - PLACE BRUSH LOGS AND TREE LIMBS APPROXIMATELY PARALLEL TO TOE OF FILL SLOPE WITH SOME OF THE HEAVIER MATERIALS BEING PLACED ON TO PROPERLY SECURE THE BARRIER AS DETAILED AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED OR PERMITTED BY THE ENGINEER.
 - TO ALLOW WATER TO SEEP THROUGH BRUSH BARRIER, INTERMINGLE THE BRUSH, LOG AND TREE LAPS SO AS NOT TO FORM A SOLID DAM.
 - THE BRUSH BARRIER MAY BE CHOKED WITH FILTER FABRIC. THE COST OF FABRIC TO BE INCLUDED IN OTHER ITEMS BID.
 - TEMPORARY BRUSH BARRIER WILL NOT BE MEASURED FOR SEPARATE PAYMENT.



SEDIMENT BARRIER AT CROSS DRAIN

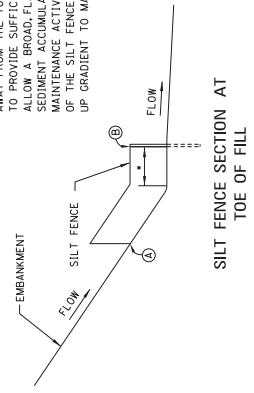


"SMILE-CONFIGURATION" SILT FENCE APPLICATION



"J-HOOK" SILT FENCE APPLICATION

- NOTE: ANCHOR AND INSTALL SILT FENCE PER DETAILS SHOWN ON WK. NO. ECD-3
- SILT FENCE SHOULD BE LOCATED AT THE TOE OF THE SLOPE TO PROVIDE SUFFICIENT SPACE TO ALLOW A BROAD-FLAT AREA FOR SEDIMENT ACCUMULATION AND MAINTENANCE ACTIVITIES. THE ENDS OF THE SILT FENCE SHOULD BE TURNED UP GRADIENT TO MAXIMIZE STORAGE.



SILT FENCE SECTION AT TOE OF FILL

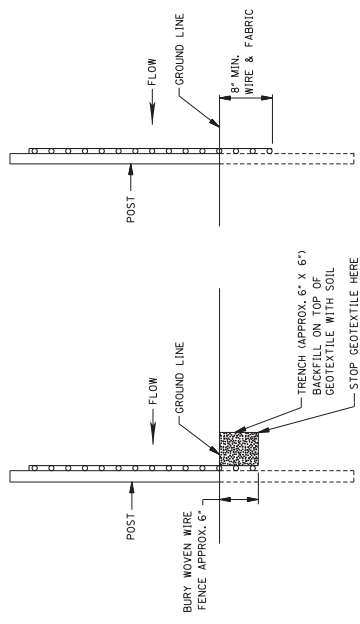
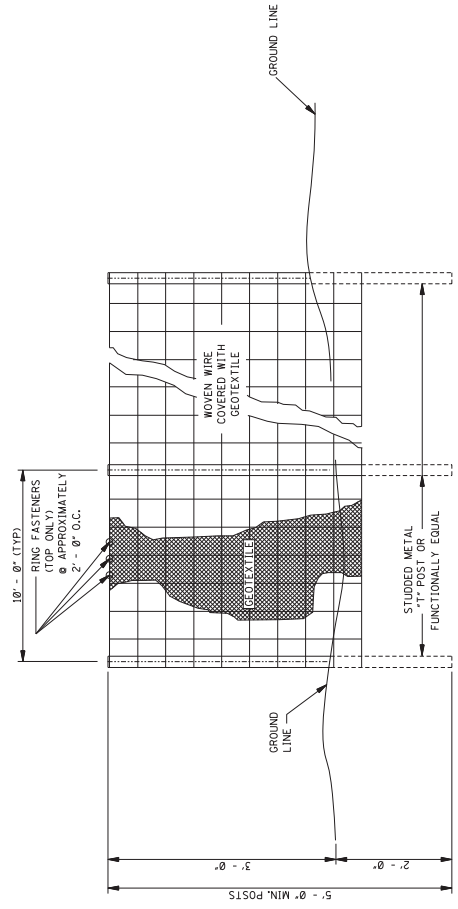
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

DETAILS OF SEDIMENT BARRIER APPLICATIONS

NO.	REVISION	DATE

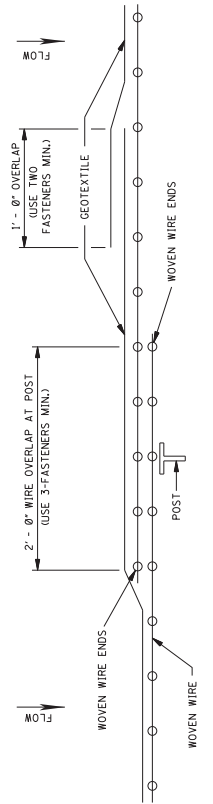
ISSUE DATE: AUGUST 01, 2017
SHEET NUMBER: 6102

STATE	PROJECT NO.
MISS.	



GENERAL NOTES:

1. SILT FENCES SHOULD BE USED IN AREAS WHERE FLOW IS NOT SEVERE.
2. SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHOULD BE ERCTED OPPOSITE ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STEAMS AND CHANNELS.
3. SILT FENCE SHOULD BE PLACED WELL INSIDE RIGHT-OF-WAY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR BACK-UP FENCE IF FIRST FENCE BECOMES FULL.
4. WHENEVER POSSIBLE SILT FENCE SHOULD BE CONSTRUCTED ACROSS A LEVEL AREA IN THE SHAPE OF A SMILE. THIS AIDS IN PONDING OF RUNOFF AN FACILITATES SEDIMENTATION.
5. THE CONTRACTOR MAY ELECT TO USE EITHER METHOD I OR METHOD II. COST TO BE LINEAR FEET OF SILT FENCE.
6. METHOD II INSTALLATION SHALL BE ACCOMPLISHED USING AN IMPLEMENT THAT IS MANUFACTURED FOR THE APPLICATION AND PROVIDES A CONFIGURATION MEETING THE REQUIREMENTS OF DETAIL.
7. WIRE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
8. GEOTEXTILE FABRIC MEETING THE TYPE II MATERIAL REQUIREMENTS AND INSTALLED ACCORDING TO SPECIFICATION MAY BE USED WITHOUT WIRE FENCE.



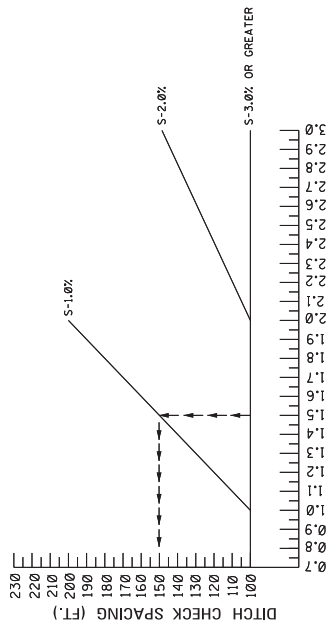
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

DETAILS OF SILT FENCE INSTALLATION

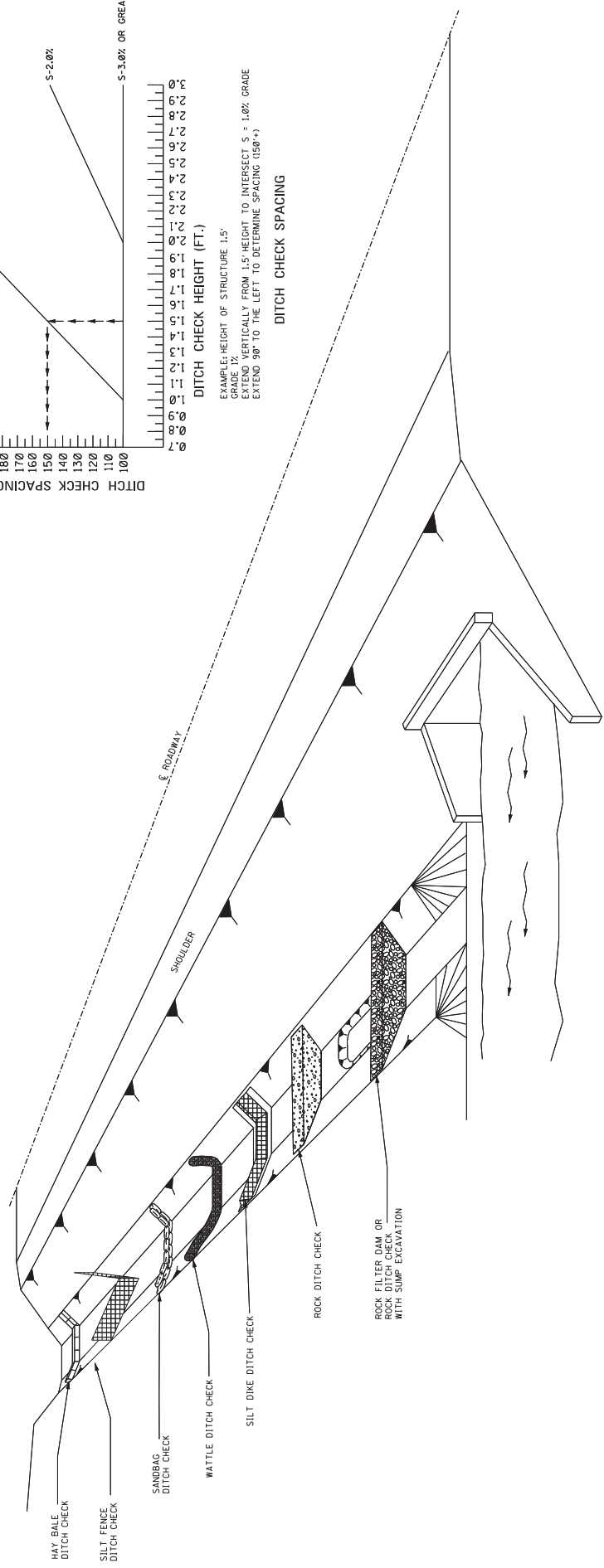
WORKING NUMBER: ECD-33
SHEET NUMBER: 6103

DATE	ISSUE DATE: AUGUST 01, 2017
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DITCH CHECK SPACING
 EXAMPLE: HEIGHT OF STRUCTURE 1.5'
 GRADE 1%
 EXTEND VERTICALLY FROM 1.5' HEIGHT TO INTERSECT S = 1.0% GRADE
 EXTEND 90° TO THE LEFT TO DETERMINE SPACING (150'+)



GENERAL NOTES:

1. THE DITCH CHECK PERSPECTIVE ILLUSTRATES A TOOL BOX OF TEMPORARY PRACTICES THAT MAY BE USED. DITCH CHECKS ARE INSTALLED TO CONTROL RUNOFF VELOCITY AND THUS REDUCE EROSION AND PROVIDE FOR TRAPPING OF SEDIMENTS.
2. SELECTION OF THE APPROPRIATE DITCH CHECK SHOULD BE A FUNCTION OF CONSTRUCTION PHASE, DRAINAGE AREA, DITCH GRADIENT, SOIL TYPE, ECONOMY AND SAFETY.
3. DITCH CHECKS CAN BE REMOVED FOR MAINTENANCE AND/OR REPLACEMENT BUT MUST REMAIN IN PLACE UNTIL UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED. MAINTENANCE INCLUDES REMOVAL OF SEDIMENT BEGINNING WHEN SEDIMENT ACCUMULATION REACHES 1/3 THE CAPACITY OR HEIGHT OF THE STRUCTURE AND NEVER ALLOWING FOR SEDIMENT TO ACCUMULATE MORE THAN 1/2 THE VOLUME OR HEIGHT OF THE DITCH CHECK STRUCTURE.
4. HAY BALES SHOULD BE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
5. SILTY FENCE DITCH CHECKS SHOULD BE USED WHERE IT HAS BEEN DETERMINED THAT HAY BALE CHECKS ARE INADEQUATE. SILTY FENCE DITCH CHECKS SHOULD BE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
6. SANDBAG DITCH CHECKS SHOULD BE USED FOR VELOCITY REDUCTION AND MINIMAL SEDIMENT TRAPPING IN CONCRETE PAVED DITCHES OR IN DITCHES THAT HAVE ROCK BOTTOMS.
7. WATTLE DITCH CHECKS CAN BE USED FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.
8. SILTY DIKES CAN BE USED IN DITCHES WITH CONCENTRATED FLOWS WITHIN THE CLEAR ZONE WHERE RIPRAP CAN NOT BE USED, AS CONSTRUCTION PROGRESSES.
9. ROCK DITCH CHECKS WITH SUMP EXCAVATION CAN BE PLACED IN DITCHES TO ASSURE ON-SITE SEDIMENT TRAPPING REQUIREMENTS ARE MET. DITCH CHECK WITH SUMP EXCAVATION IS USED WHEN DITCHES RECEIVE DRAINAGE FROM CUT OR FILL SLOPES OR OTHER CRITICAL AREAS WHERE SOIL EROSION IS EXPECTED. DRAINAGE AREA FOR A TEMPORARY SEDIMENT TRAP SHOULD BE LIMITED TO 3 ACRES. THEY CAN BE USED IN SERIES TO INCREASE ON-SITE SEDIMENT TRAPPING EFFICIENCY.
10. DITCH CHECKS, IN NO CASE, SHALL BE PLACED IN LIVE STREAMS.
11. CONFIGURATION AND SPACING MAY BE ADJUSTED IF APPROVED BY THE ENGINEER TO ACCOMMODATE TRAVELWAY SAFETY, WATER FLOW, OR SOIL AND INSTALLATION CHALLENGES.

BY	REVISION	DATE

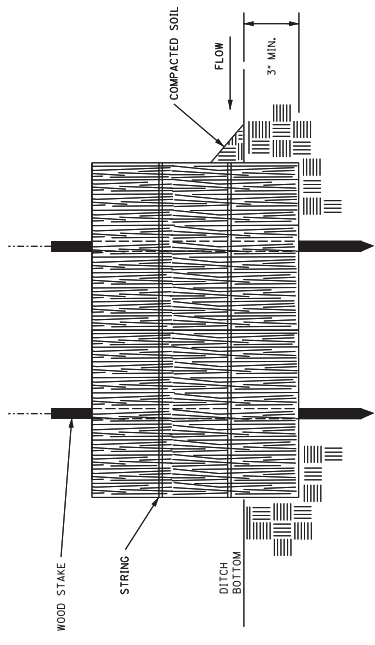
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN DIVISION
 STANDARD PLAN

**DITCH CHECK STRUCTURES,
 TYPICAL APPLICATIONS
 AND DETAILS**

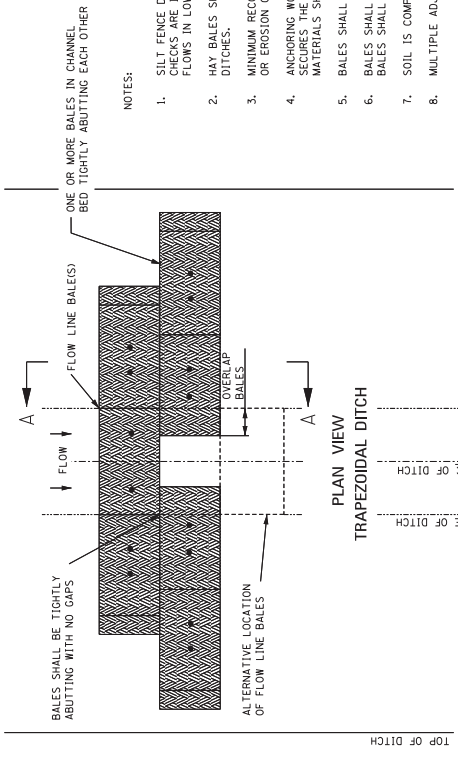
ISSUE DATE: AUGUST 01, 2017
 SHEET NUMBER: 6104

DATE	REVISION	BY

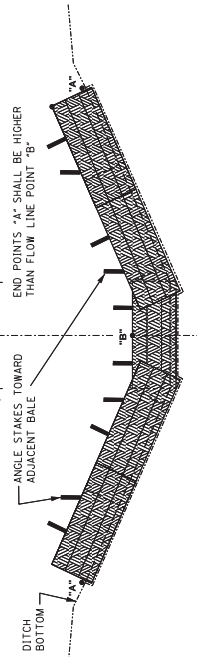
**TEMPORARY EROSION, SEDIMENT,
AND WATER POLLUTION
CONTROL MEASURES
(SILT FENCE AND HAY
BALE DITCH CHECKS)**



SECTION A-A



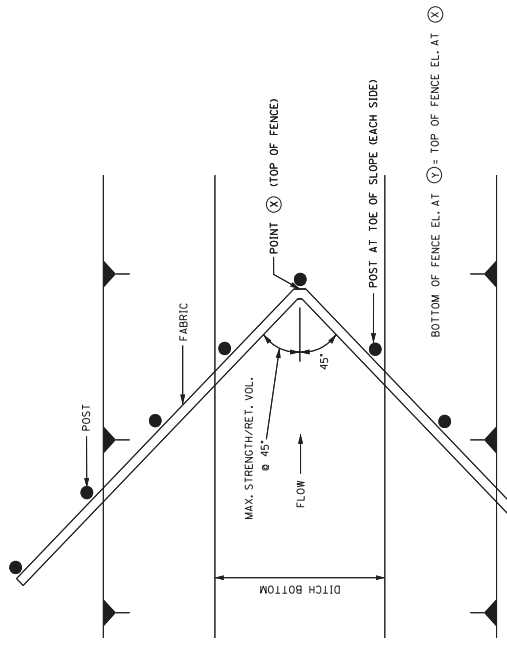
PLAN VIEW
TRAPEZOIDAL DITCH



PROFILE VIEW
TRAPEZOIDAL DITCH

NOTES:

1. SILT FENCE DITCH CHECKS SHOULD BE USED WHERE IT HAS BEEN DETERMINED THAT HAY BALE CHECKS ARE INADEQUATE. SILT FENCE DITCH CHECKS SHOULD BE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
2. HAY BALES SHOULD BE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
3. MINIMUM RECOMMENDED CHECK SPACING IS 100 FEET UNLESS SHOWN OTHERWISE ON THE PLANS OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON WK. NO. ECO-4.
4. ANCHORING WOOD STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. A MINIMUM OF TWO STAKES PER BALE IS REQUIRED. ALL NON-DEGRADABLE MATERIALS SHALL BE REMOVED WHEN NO LONGER NEEDED.
5. BALES SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 3 INCHES.
6. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES. THE BALES SHALL BE PLACED WITH BINDINGS PARALLEL TO THE GROUND.
7. SOIL IS COMPACTED ALONG THE BASE OF THE UPSTREAM FACE TO PREVENT PIPING.
8. MULTIPLE ADJACENT ROWS OF BALES ARE REQUIRED AS SHOWN.

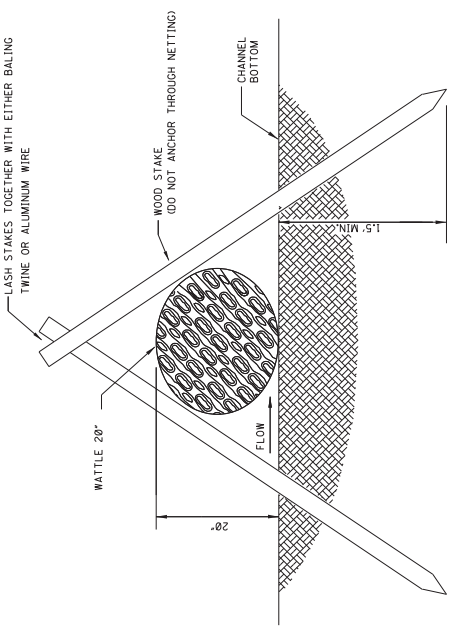


PLAN VIEW

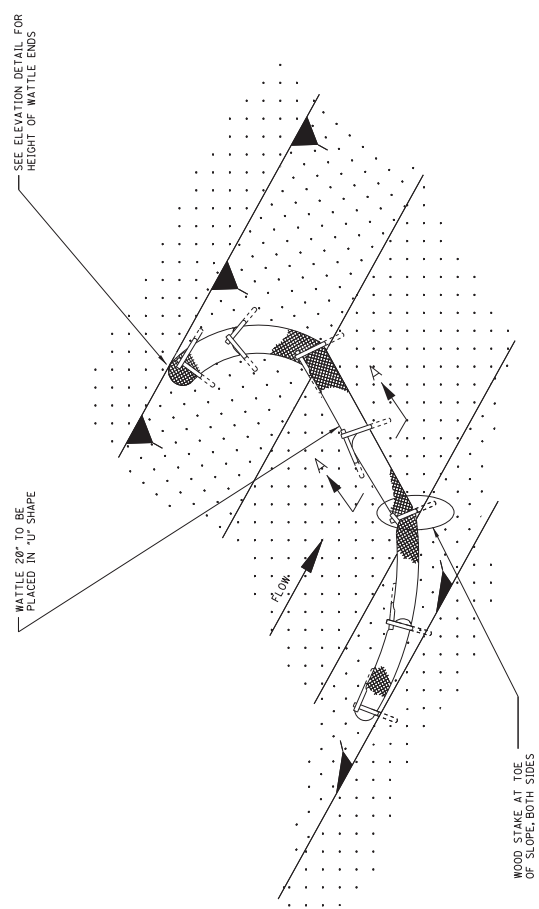
NOTES:

1. ANCHOR AND INSTALL PER DETAILS FOR SILT FENCE SPACING GUIDELINES ON WK. NO. ECO-4.
2. A "W" SHAPE MAY BE USED FOR WIDER DITCHES.

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SECTION A-A

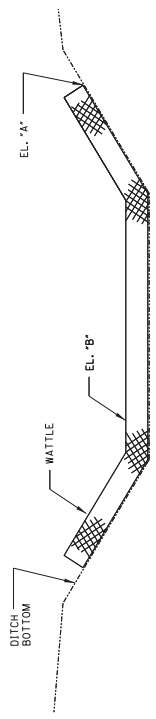


DETAIL (DITCH CHECK)

NOTES:


1. WATTLE DITCH CHECKS CAN BE USED FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.
2. THE PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECKS SHALL BE 100' UNLESS SHOWN OTHERWISE ON THE PLANS OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON WK. NO. ECD-4.
3. ANCHORING WOOD STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT FITS THROUGH THE HOLES IN THE CHECKS. STAKES SHALL BE PLACED AT LEAST THREE FEET. ALL NON-Biodegradable MATERIALS SHALL BE REMOVED WHEN NO LONGER NEEDED.
4. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.
5. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.
6. IN THE EVENT WATTLES CANNOT BE SECURED IN PLACE USING WOOD STAKES SAND BAGS MAY BE USED IN LIEU OF WOOD STAKES IN ORDER TO SECURE THE WATTLES IN PLACE. IF SANDS BAGS ARE USED IN THIS APPLICATION THEY WILL NOT BE A SEPARATE PAY ITEM.

NOTE: END POINTS "A" SHALL BE HIGHER THAN FLOWLINE POINT "B".



ELEVATION DETAIL

DETAILS OF EROSION CONTROL WATTLE DITCH CHECK

MISSISSIPPI DEPARTMENT OF TRANSPORTATION		 WORKING NUMBER ECD-4	SHEET NUMBER 6106
ROADWAY DESIGN DIVISION			
STANDARD PLAN			
		ISSUE DATE: AUGUST 01, 2017	
BY	REVISION		

STATE PROJECT NO.
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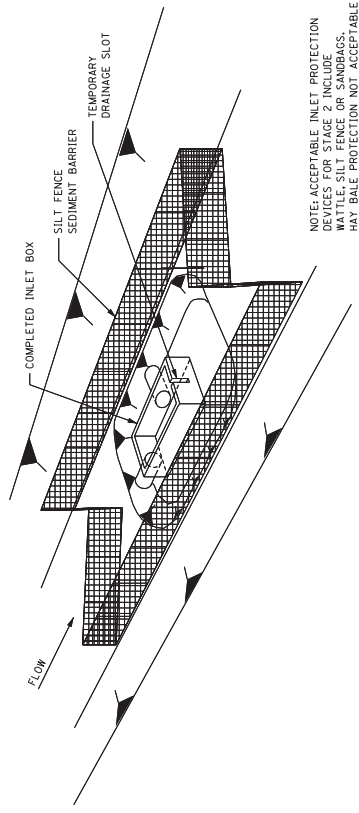
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SHEET NUMBER
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MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

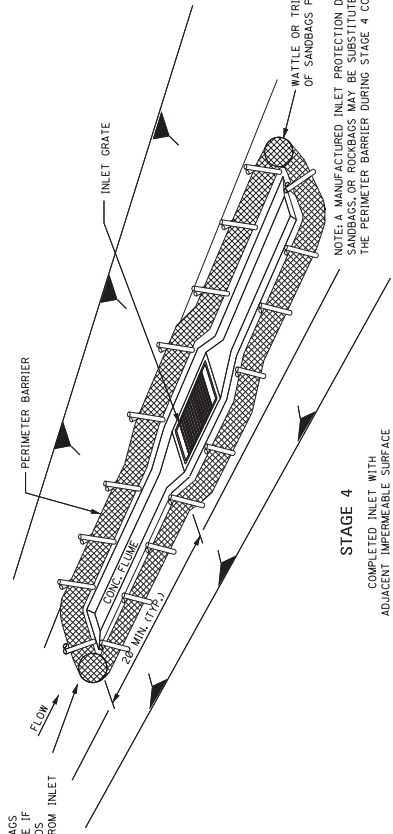
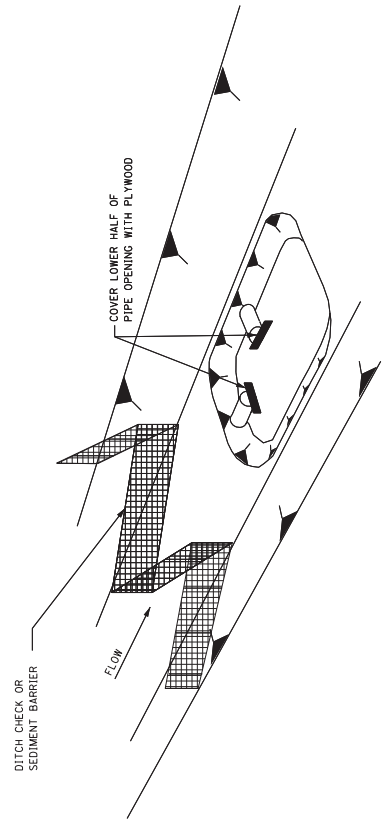
TYPICAL APPLICATIONS AND DETAILS FOR INLET CONSTRUCTION

DATE	REVISION

ISSUE DATE: AUGUST 01, 2017

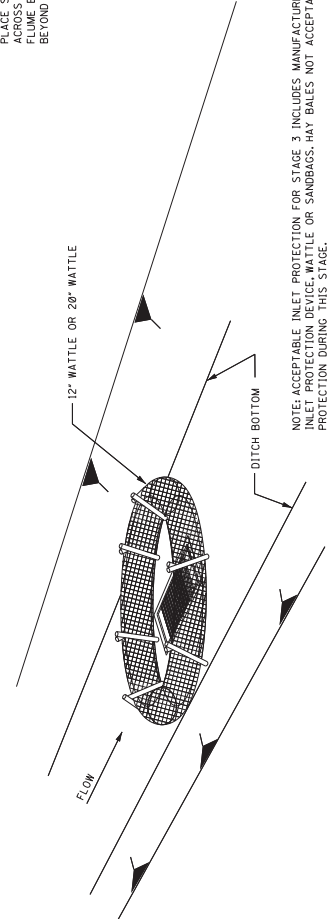


INLET/JUNCTION BOX
CONSTRUCTED BUT NOT BACKFILLED



PLACE SANDBAGS ACROSS FLUME IF FLUME EXTENDS BEYOND 20' FROM INLET

NOTE: ACCEPTABLE INLET PROTECTION FOR STAGE 3 INCLUDES MANUFACTURED INLET PROTECTION DEVICE, WATTLE OR SANDBAGS, HAY BALES NOT ACCEPTABLE PROTECTION DURING THIS STAGE.



DITCH INLET CONSTRUCTION STAGES

- NOTES:
1. DRAINAGE STRUCTURE BACKFILL SHOULD BE PLACED IN STAGE 1 IMMEDIATELY AFTER PIPE INSTALLATION. INLET CONSTRUCTION SHOULD COMMENCE AS SOON AS POSSIBLE AND BE CONTINUOUS THROUGH COMPLETION.
 2. CONFIGURATIONS MAY BE ADJUSTED WITH APPROVAL OF THE ENGINEER FOR TRAVELWAY SAFETY, WATER FLOW, OR SOIL AND INSTALLATION CHALLENGES.
 3. DURING STAGE 1 AND STAGE 2, SILT FENCE MAY BE REQUIRED UPSLOPE OF THE INLET EXCAVATION AS DIRECTED BY THE ENGINEER.
 4. IF SILT FENCE IS INSTALLED AROUND THE INLET INSTALLATION IT SHOULD BE IN A CONFIGURATION THAT WILL ALLOW INLET CONSTRUCTION.
 5. FOR INLET PROTECTION TO BE USED IN STAGES 1 AND 2 OF CONSTRUCTION, SEE WK. NO. ECO-12.

STANDARD INSTALLATION DETAIL

TABLE 1: BEDDING AND BACKFILL REQUIREMENTS

BEDDING AND BACKFILL REQUIREMENTS FOR NON-RIGID PIPE IN CROSS DRAIN AND STORM DRAIN APPLICATIONS CONSTRUCTION, LATEST EDITION.

A. BEDDING SHALL BE CLASS B IN ACCORDANCE WITH THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

B. BACKFILL SHALL BE CLASS C IN ACCORDANCE WITH THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

1. FLOWABLE FILL IN ACCORDANCE WITH THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

2. CRUSHED STONE AGGREGATE BACKFILL IN ACCORDANCE WITH THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

IF FLOWABLE FILL IS UTILIZED, CARE SHALL BE TAKEN TO PREVENT "FLOATING" OF THE PIPE.

THE COST OF FURNISHING AND PLACING THE REQUIRED BEDDING AND BACKFILL MATERIAL INDICATED IN A AND B SHALL BE INCLUDED IN THE UNIT COST OF THE NON-RIGID PIPE ALTERNATE, I.E., THERE IS NO SEPARATE PAY ITEM FOR NON-RIGID PIPE BEDDING AND BACKFILL MATERIAL.

BEDDING AND BACKFILL REQUIREMENTS FOR NON-RIGID PIPE IN SIDE DRAIN APPLICATIONS

A. BEDDING SHALL BE CLASS C IN ACCORDANCE WITH THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

B. BACKFILL SHALL BE CLASS B IN ACCORDANCE WITH THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

CARRY DRAINAGE UNDER A COUNTY OR LOCAL ROAD SHALL ADHERE TO THE BEDDING AND BACKFILL REQUIREMENTS FOR A CROSS DRAIN CONTAINED ABOVE.

THE COST OF FURNISHING AND PLACING THE REQUIRED BEDDING AND BACKFILL MATERIAL INDICATED IN A AND B SHALL BE INCLUDED IN THE UNIT COST OF THE NON-RIGID ALTERNATE PIPE, I.E., THERE IS NO SEPARATE PAY ITEM FOR NON-RIGID BEDDING AND BACKFILL MATERIAL.

TABLE 2: HIGH DENSITY CORRUGATED POLYETHYLENE PIPE HEIGHT OF COVER

NOMINAL DIAMETER IN.	MINIMUM COVER IN.	MAXIMUM COVER - FT. SIDE DRAIN
12	12	38
15	12	36
18	12	35
24	12	30
30	12	25
36	21	23
42	21	25
48	21	26

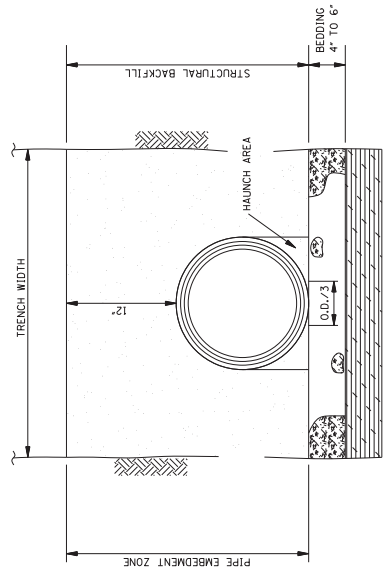
TABLE 3: RECOMMENDED TRENCH WIDTH

DIAMETER IN.	O.D. IN.	TRENCH WIDTH IN.
12	14.45	34
15	17.20	44
18	21.00	54
24	27.80	65
30	35.10	75
36	41.70	84
42	47.70	84
48	53.60	92

THE TRENCH WIDTH MUST BE WIDE ENOUGH TO ACCOMMODATE COMPACTOR EQUIPMENT

TABLE 4: MULTIPLE INSTALLATION OF POLYETHYLENE PIPES

DIAMETER OF PIPE IN.	CLEAR DISTANCE BETWEEN PIPES FT.-IN.
12	1'-5"
15	1'-5"
18	1'-5"
24	1'-8"
30	1'-11"
36	2'-2"
42	2'-5"
48	2'-5"



TRENCH CROSS SECTION SHOWING TERMINOLOGY

- GENERAL NOTES:**
- MATERIALS**
 THERMOPLASTIC PIPE
 POLYETHYLENE PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 294, LATEST EDITION. THIS PIPE WILL HAVE A FULL CIRCULAR CROSS SECTION WITH AN OUTER DESIGNATION OF TYPE 'S'. CORRUGATED PIPE WALL AND A SMOOTH INNER LINER.
 BEDDING MATERIAL AND STRUCTURAL BACKFILL SHALL MEET THE REQUIREMENTS OF TABLE 1.
 BEDDING MATERIAL AND STRUCTURAL BACKFILL SHALL MEET THE REQUIREMENTS OF TABLE 1.
 - JOINTS**
 JOINTS FOR THERMOPLASTIC PIPE SHALL MEET THE PERFORMANCE REQUIREMENTS OF SOILTIGHTNESS UNLESS WATER TIGHTNESS IS SPECIFIED.
 SUITABLE JOINTS CAN BE OBTAINED WITH THE FOLLOWING TYPES OF CONNECTIONS:
 A) CORRUGATED BANDS (WITH OR WITHOUT GASKETS)
 B) BELL AND SPIGOT PIPE ENDS (WITH OR WITHOUT GASKETS)
 C) DOUBLE BELL COUPLINGS (WITH OR WITHOUT GASKETS)
 - INSTALLATION**
 MINIMUM TRENCH WIDTHS SHALL MEET THE REQUIREMENTS OF TABLE 3. THE SHOULDER BEHIND OF BEDDING MATERIAL UNDER THE SHOULDER SHALL BE LOOSELY PLACED, WHILE THE BEDDING MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD DENSITY PER AASHTO T 99. A MINIMUM OF 4 INCHES OF BEDDING SHALL BE PROVIDED PRIOR TO PLACEMENT OF THE PIPE.
 STRUCTURAL BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING AN 8" LOOSE LIFT THICKNESS AND BROUGHT UP EVENLY ON BOTH SIDES OF THE PIPE WITH AN ELEVATION NOT LESS THAN 12 INCHES ABOVE THE TOP OF THE PIPE. A MINIMUM COMPACTION LEVEL OF 90% STANDARD DENSITY PER AASHTO T 99 SHALL BE ACHIEVED.
 JOINTS FOR MULTIPLE INSTALLATIONS SHALL MEET THE REQUIREMENTS OF TABLE 2.
 FOR MULTIPLE INSTALLATIONS OF POLYETHYLENE PIPES, A CLEAR DISTANCE BETWEEN THE PIPES SHALL MEET THE REQUIREMENTS OF TABLE 4.
 - CALCULATIONS**
 CALCULATIONS FOR FILL DEPTHS ARE BASED ON PROPERTIES DEFINED IN AASHTO M 294 AND CALCULATIONS IN AASHTO SEC. 19.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN DIVISION
 STANDARD PLAN

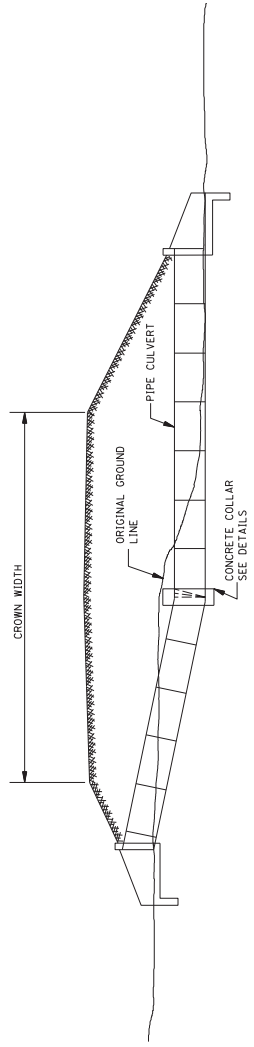
**FLEXIBLE PIPE CULVERT
 INSTALLATION**

WORKING NUMBER: PI-2
 SHEET NUMBER: 65/02

ISSUE DATE: AUGUST 01, 2017

DATE	REVISION	BY

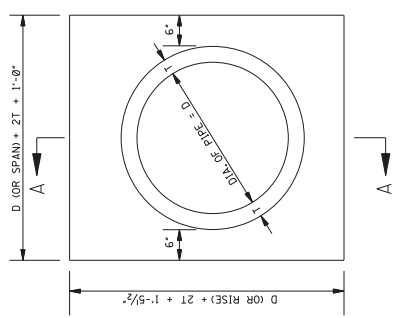
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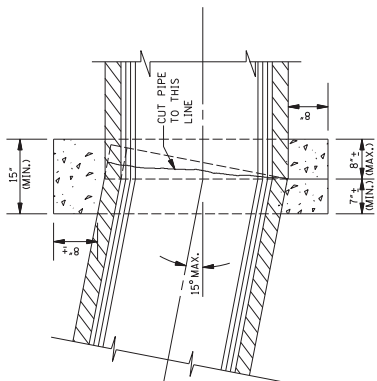
TYPICAL INSTALLATION FOR PIPE CULVERT WITH BROKEN FLOW LINE

GENERAL NOTES:
 1. THE MAXIMUM BEND ANGLE IS 15 DEGREES.
 2. THE FOLLOWING QUANTITIES SHALL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE:

DIA. OF PIPE	QUANTITIES FOR CONCRETE COLLAR FOR PIPE CULVERTS	
	CIRCULAR PIPE	ARCH PIPE
12"	0.2240	
15"	0.2660	
18"	0.3200	
24"	0.4100	
36"	0.6200	
42"	0.7300	
48"	0.8500	
54"	0.9800	
60"	1.1100	
66"	1.2480	
72"	1.3930	



ELEVATION OF CONCRETE COLLAR
 NOTE: CIRCULAR PIPE IS SHOWN, ARCH PIPE IS SIMILAR.



SECTION A-A

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
CONCRETE PIPE COLLAR	
BY	REVISION
DATE	ISSUE DATE: AUGUST 01, 2017
	SHEET NUMBER: 6503



BAR GRATE AS SHOWN IN TABLE

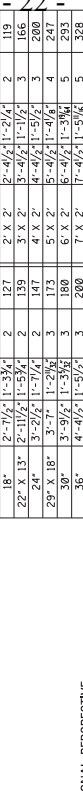
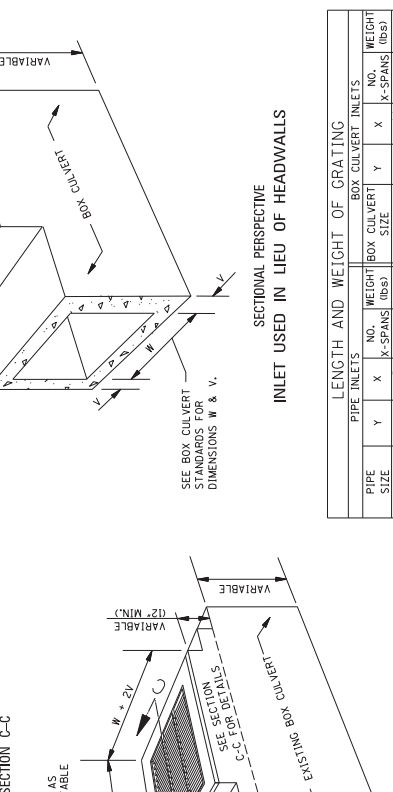
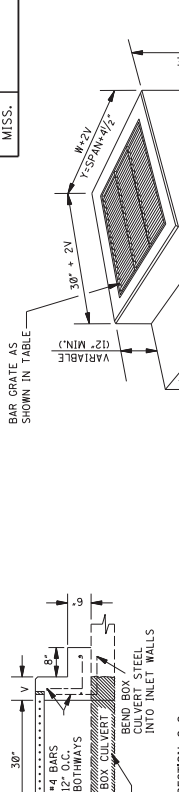
30" + 2V

W-2V

7-SPAN-1/2"

VARIABLE

800 CULVERT

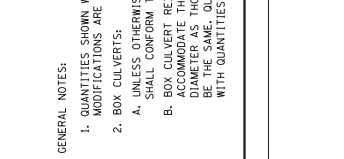
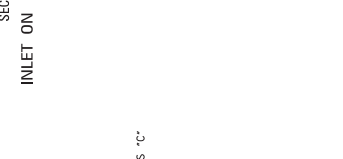
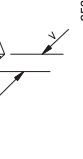
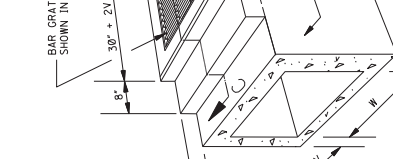
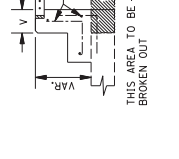
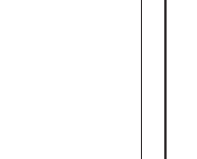


LENGTH AND WEIGHT OF GRATING

PIPE SIZE	PIPE INLETS		BOX CULVERT INLETS		NO. INLETS	WEIGHT (lbs)
	Y	X	Y	X		
18"	2'-11 3/4"	1'-3 3/4"	2' X 2'	2'-4 1/2" X 1'-5 1/4"	2	119
22" X 13"	2'-11 3/4"	1'-5 3/4"	3' X 2'	5'-4 1/2" X 1'-1 1/2"	3	166
24"	3'-2 1/2"	1'-5 3/4"	3' X 2'	5'-4 1/2" X 1'-1 1/2"	3	200
29" X 18"	3'-9 1/2"	1'-5 3/4"	6' X 2'	6'-4 1/2" X 1'-5 3/4"	5	293
36"	4'-11 1/2"	1'-5 3/4"	7' X 2'	7'-4 1/2" X 1'-5 3/4"	5	328
42"	5'-6 1/2"	1'-4 3/4"	8' X 3'	8'-4 1/2" X 1'-4 3/4"	6	374
48"	5'-6 1/2"	1'-4 3/4"	8' X 3'	8'-4 1/2" X 1'-4 3/4"	6	374
54"	6'-1 1/2"	1'-4 3/4"	4' X 3'	4'-4 1/2" X 1'-4 3/4"	3	200
60"	6'-8 1/2"	1'-4 3/4"	5' X 3'	5'-4 1/2" X 1'-4 3/4"	4	247
			6' X 3'	6'-4 1/2" X 1'-3 3/4"	5	293

QUANTITIES

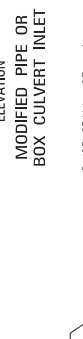
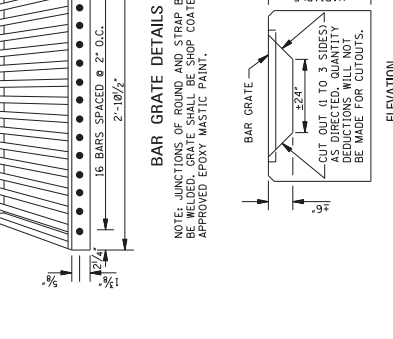
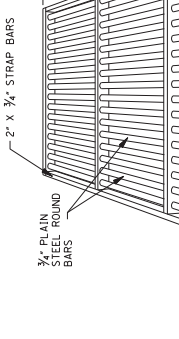
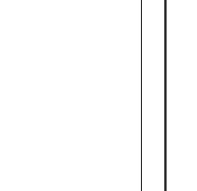
PIPE SIZE	MIN. INLET TO F.L. (ft)	MIN. CONC. (ft)	STEEL (lbs)	CONC. (cu yd)	EACH ADDED FOOT	PIPE OPENING				BAR SIZES		
						T	A	B	C			
18"	2.209	0.623	82	0.213	(5'-9")	2'-11 3/4"	1'-3 3/4"	2' X 2'	2'-4 1/2"	1'-5 1/4"	2	119
22" X 13"	2.241	0.653	135	0.213	(5'-9")	2'-11 3/4"	1'-5 3/4"	3' X 2'	5'-4 1/2"	1'-1 1/2"	3	166
24"	2.250	0.653	144	0.213	(5'-9")	3'-2 1/2"	1'-5 3/4"	3' X 2'	5'-4 1/2"	1'-1 1/2"	3	200
29" X 18"	2.250	0.653	180	0.213	(5'-9")	3'-9 1/2"	1'-5 3/4"	6' X 2'	6'-4 1/2"	1'-5 3/4"	5	293
36"	3.292	0.742	270	0.213	(5'-9")	4'-11 1/2"	1'-5 3/4"	7' X 2'	7'-4 1/2"	1'-5 3/4"	5	328
42"	3.834	0.742	324	0.213	(5'-9")	5'-6 1/2"	1'-4 3/4"	8' X 3'	8'-4 1/2"	1'-4 3/4"	6	374
48"	4.375	1.418	93	0.259	(18")	5'-6 1/2"	1'-4 3/4"	8' X 3'	8'-4 1/2"	1'-4 3/4"	6	374
54"	4.917	1.653	109	0.321	(18")	6'-1 1/2"	1'-4 3/4"	4' X 3'	4'-4 1/2"	1'-4 3/4"	3	200
60"	5.458	1.902	136	0.343	(18")	6'-8 1/2"	1'-4 3/4"	5' X 3'	5'-4 1/2"	1'-4 3/4"	4	247
	6.000	2.165	146	0.364	(18")			6' X 3'	6'-4 1/2"	1'-3 3/4"	5	293



NOTE: JUNCTIONS OF ROUND AND STRAP BARS SHALL BE WELDED. GRATE SHALL BE SHOP COATED WITH APPROVED EPOXY MASTIC PAINT.

GENERAL NOTES:
 1. QUANTITIES SHOWN WILL BE THE BASIS OF PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
 2. BOX CULVERTS:
 A. UNLESS OTHERWISE SHOWN, THE DETAILS OF THE BOX CULVERT INLETS SHALL CONFORM TO THOSE SHOWN FOR THE PIPE INLETS.
 B. BOX CULVERT REINFORCEMENT SHALL BE CONTINUED AND RESHAPED TO ACCOMMODATE THE INLET BOX. ADDITIONAL BARS SHALL BE THE SAME DIAMETER AS THOSE IN THE BOX CULVERT AND THE CONCRETE SHALL BE THE SAME. QUANTITIES SHALL BE COMPUTED IN CONJUNCTION WITH QUANTITIES FOR BOX CULVERT.

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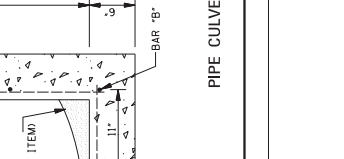
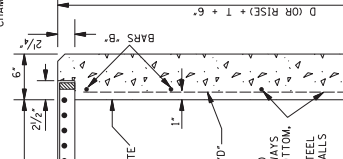
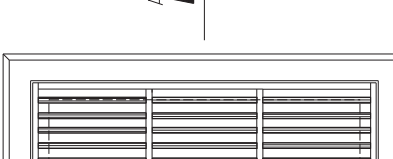
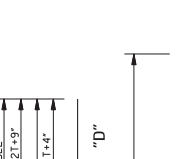
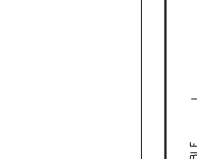


LENGTH AND WEIGHT OF GRATING

PIPE SIZE	PIPE INLETS		BOX CULVERT INLETS		NO. INLETS	WEIGHT (lbs)
	Y	X	Y	X		
18"	2'-11 3/4"	1'-3 3/4"	2' X 2'	2'-4 1/2" X 1'-5 1/4"	2	119
22" X 13"	2'-11 3/4"	1'-5 3/4"	3' X 2'	5'-4 1/2" X 1'-1 1/2"	3	166
24"	3'-2 1/2"	1'-5 3/4"	3' X 2'	5'-4 1/2" X 1'-1 1/2"	3	200
29" X 18"	3'-9 1/2"	1'-5 3/4"	6' X 2'	6'-4 1/2" X 1'-5 3/4"	5	293
36"	4'-11 1/2"	1'-5 3/4"	7' X 2'	7'-4 1/2" X 1'-5 3/4"	5	328
42"	5'-6 1/2"	1'-4 3/4"	8' X 3'	8'-4 1/2" X 1'-4 3/4"	6	374
48"	5'-6 1/2"	1'-4 3/4"	8' X 3'	8'-4 1/2" X 1'-4 3/4"	6	374
54"	6'-1 1/2"	1'-4 3/4"	4' X 3'	4'-4 1/2" X 1'-4 3/4"	3	200
60"	6'-8 1/2"	1'-4 3/4"	5' X 3'	5'-4 1/2" X 1'-4 3/4"	4	247
			6' X 3'	6'-4 1/2" X 1'-3 3/4"	5	293

QUANTITIES

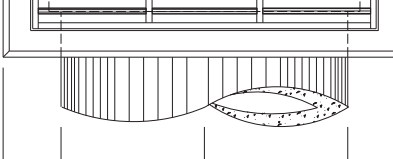
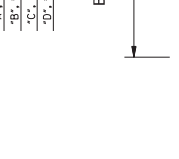
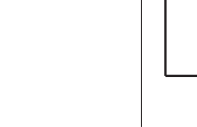
PIPE SIZE	MIN. INLET TO F.L. (ft)	MIN. CONC. (ft)	STEEL (lbs)	CONC. (cu yd)	EACH ADDED FOOT	PIPE OPENING				BAR SIZES		
						T	A	B	C			
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24"	2.250	0.653	144	0.213	(5'-9")	3'-2 1/2"	1'-5 3/4"	3' X 2'	5'-4 1/2"	1'-1 1/2"	3	200
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48"	4.375	1.418	93	0.259	(18")	5'-6 1/2"	1'-4 3/4"	8' X 3'	8'-4 1/2"	1'-4 3/4"	6	374
54"	4.917	1.653	109	0.321	(18")	6'-1 1/2"	1'-4 3/4"	4' X 3'	4'-4 1/2"	1'-4 3/4"	3	200
60"	5.458	1.902	136	0.343	(18")	6'-8 1/2"	1'-4 3/4"	5' X 3'	5'-4 1/2"	1'-4 3/4"	4	247
	6.000	2.165	146	0.364	(18")			6' X 3'	6'-4 1/2"	1'-3 3/4"	5	293



NOTE: JUNCTIONS OF ROUND AND STRAP BARS SHALL BE WELDED. GRATE SHALL BE SHOP COATED WITH APPROVED EPOXY MASTIC PAINT.

GENERAL NOTES:
 1. QUANTITIES SHOWN WILL BE THE BASIS OF PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
 2. BOX CULVERTS:
 A. UNLESS OTHERWISE SHOWN, THE DETAILS OF THE BOX CULVERT INLETS SHALL CONFORM TO THOSE SHOWN FOR THE PIPE INLETS.
 B. BOX CULVERT REINFORCEMENT SHALL BE CONTINUED AND RESHAPED TO ACCOMMODATE THE INLET BOX. ADDITIONAL BARS SHALL BE THE SAME DIAMETER AS THOSE IN THE BOX CULVERT AND THE CONCRETE SHALL BE THE SAME. QUANTITIES SHALL BE COMPUTED IN CONJUNCTION WITH QUANTITIES FOR BOX CULVERT.

STATE PROJECT NO. MISS.



LENGTH AND WEIGHT OF GRATING

PIPE SIZE	PIPE INLETS		BOX CULVERT INLETS		NO. INLETS	WEIGHT (lbs)
	Y	X	Y	X		
18"	2'-11 3/4"	1'-3 3/4"	2' X 2'	2'-4 1/2" X 1'-5 1/4"	2	119
22" X 13"	2'-11 3/4"	1'-5 3/4"	3' X 2'	5'-4 1/2" X 1'-1 1/2"	3	166
24"	3'-2 1/2"	1'-5 3/4"	3' X 2'	5'-4 1/2" X 1'-1 1/2"	3	200
29" X 18"	3'-9 1/2"	1'-5 3/4"	6' X 2'	6'-4 1/2" X 1'-5 3/4"	5	293
36"	4'-11 1/2"	1'-5 3/4"	7' X 2'	7'-4 1/2" X 1'-5 3/4"	5	328
42"	5'-6 1/2"	1'-4 3/4"	8' X 3'	8'-4 1/2" X 1'-4 3/4"	6	374
48"	5'-6 1/2"	1'-4 3/4"	8' X 3'	8'-4 1/2" X 1'-4 3/4"	6	374
54"	6'-1 1/2"	1'-4 3/4"	4' X 3'	4'-4 1/2" X 1'-4 3/4"	3	200
60"	6'-8 1/2"	1'-4 3/4"	5' X 3'	5'-4 1/2" X 1'-4 3/4"	4	247
			6' X 3'	6'-4 1/2" X 1'-3 3/4"	5	293

QUANTITIES

PIPE SIZE	MIN. INLET TO F.L. (ft)	MIN. CONC. (ft)	STEEL (lbs)	CONC. (cu yd)	EACH ADDED FOOT	PIPE OPENING				BAR SIZES		
						T	A	B	C			
18"	2.209	0.623	82	0.213	(5'-9")	2'-11 3/4"	1'-3 3/4"	2' X 2'	2'-4 1/2"	1'-5 1/4"	2	119
22" X 13"	2.241	0.653	135	0.213	(5'-9")	2'-11 3/4"	1'-5 3/4"	3' X 2'	5'-4 1/2"	1'-1 1/2"	3	166
24"	2.250	0.653	144	0.213	(5'-9")	3'-2 1/2"	1'-5 3/4"	3' X 2'	5'-4 1/2"	1'-1 1/2"	3	200
29" X 18"	2.250	0.653	180	0.213	(5'-9")	3'-9 1/2"	1'-5 3/4"	6' X 2'	6'-4 1/2"	1'-5 3/4"	5	293
36"	3.292	0.742	270	0.213	(5'-9")	4'-11 1/2"	1'-5 3/4"	7' X 2'	7'-4 1/2"	1'-5 3/4"	5	328
42"	3.834	0.742	324	0.213	(5'-9")	5'-6 1/2"	1'-4 3/4"	8' X 3'	8'-4 1/2"	1'-4 3/4"	6	374
48"	4.375	1.418	93	0.259	(18")	5'-6 1/2"	1'-4 3/4"	8' X 3'	8'-4 1/2"	1'-4 3/4"	6	374
54"	4.917	1.653	109	0.321	(18")	6'-1 1/2"	1'-4 3/4"	4' X 3'	4'-4 1/2"	1'-4 3/4"	3	200
60"	5.458	1.902	136	0.343	(18")	6'-8 1/2"	1'-4 3/4"	5' X 3'	5'-4 1/2"	1'-4 3/4"	4	247
	6.000	2.165	146	0.364	(18")			6' X 3'	6'-4 1/2"	1'-3 3/4"	5	293

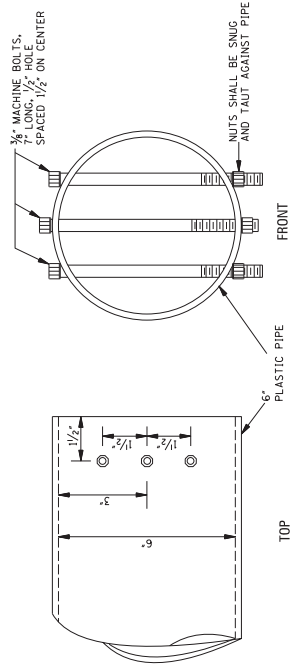
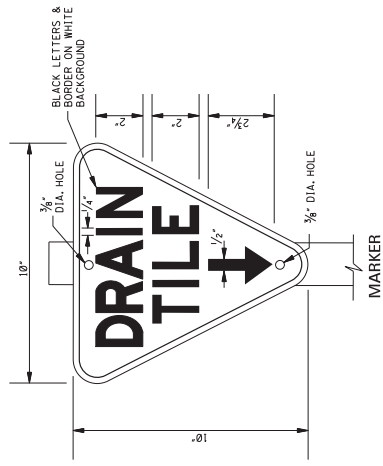
STATE PROJECT NO. MISS.

GENERAL NOTES:
 1. QUANTITIES SHOWN WILL BE THE BASIS OF PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
 2. BOX CULVERTS:
 A. UNLESS OTHERWISE SHOWN, THE DETAILS OF THE BOX CULVERT INLETS SHALL CONFORM TO THOSE SHOWN FOR THE PIPE INLETS.
 B. BOX CULVERT REINFORCEMENT SHALL BE CONTINUED AND RESHAPED TO ACCOMMODATE THE INLET BOX. ADDITIONAL BARS SHALL BE THE SAME DIAMETER AS THOSE IN THE BOX CULVERT AND THE CONCRETE SHALL BE THE SAME. QUANTITIES SHALL BE COMPUTED IN CONJUNCTION WITH QUANTITIES FOR BOX CULVERT.

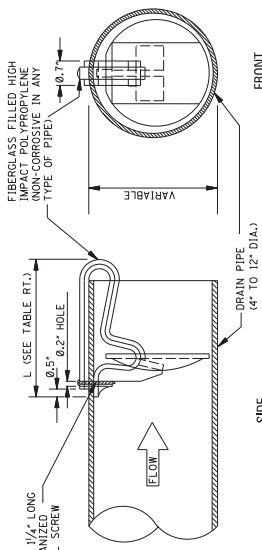
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN DIVISION
 STANDARD PLAN

DROP INLET AND GRATE DETAILS FOR PIPE AND BOX CULVERTS

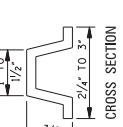
ISSUE DATE: AUGUST 01, 2017
 SHEET NUMBER: B-9
 PROJECT NUMBER: 65271



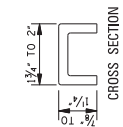
SMALL ANIMAL GUARD - ALTERNATE I



SMALL ANIMAL GUARD - ALTERNATE II



CROSS SECTION

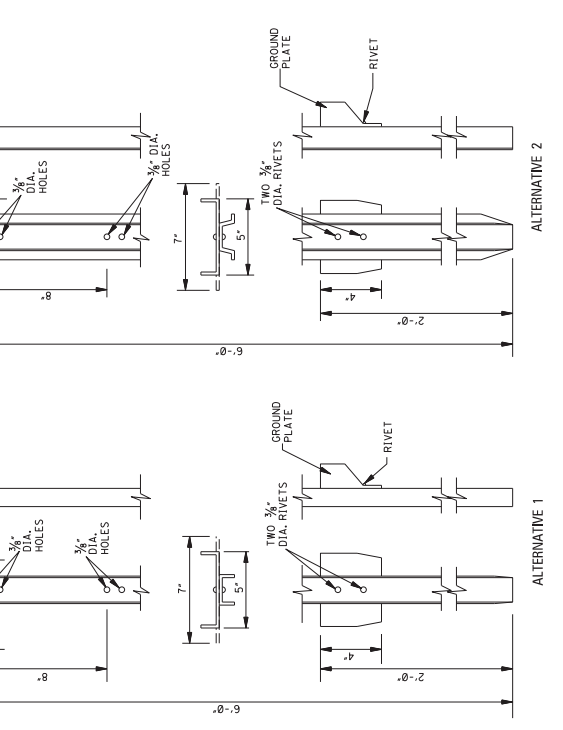
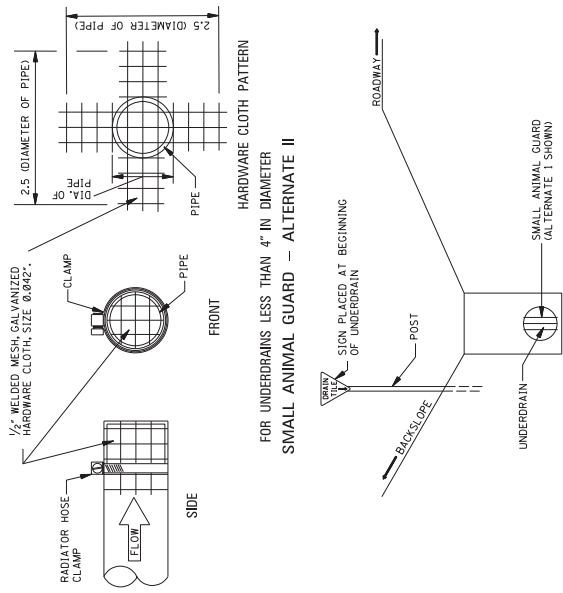
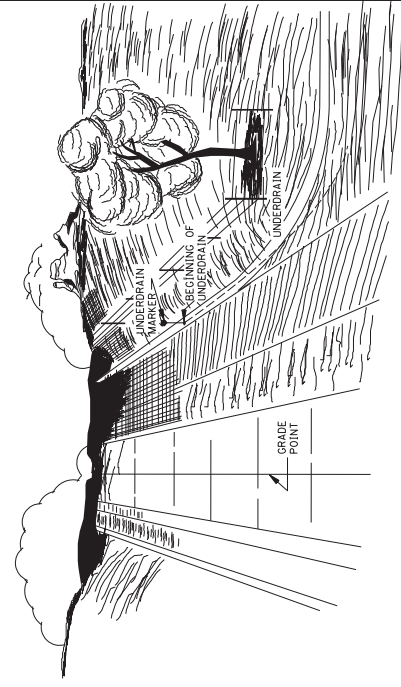


CROSS SECTION

69

DIA. OF UNDERDRAIN	L
4"	3'
5"	3'
6"	4.75'
8"	4.75'
10"	9.50'
12"	9.50'

LOCATION OF UNDERDRAIN MARKER



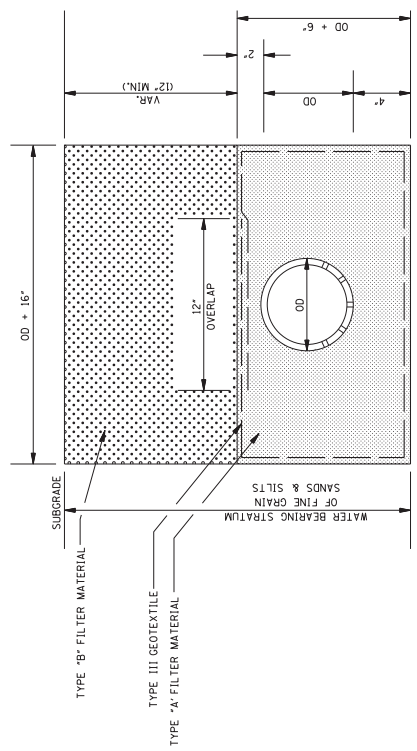
CROSS SECTION OF UNDERDRAIN

METAL POST

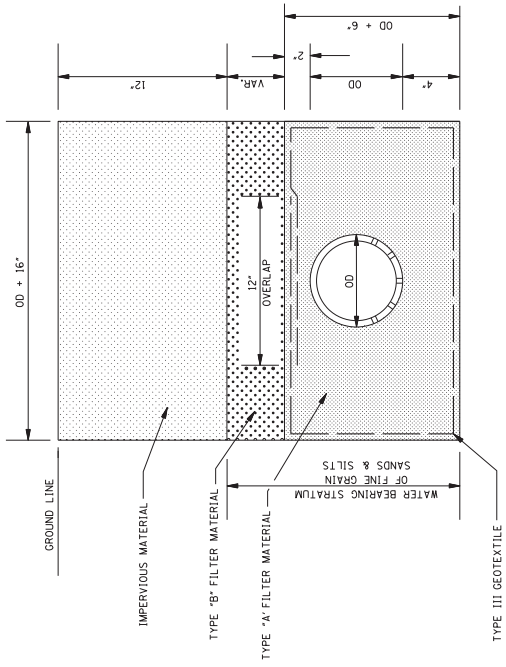
GENERAL NOTES:

1. MARKER SHALL BE FASTENED TO POST WITH 3/8" BLIND FASTENERS OF THE COLLAR TYPE.
2. MARKER FACE SHALL BE 0.080" ALUMINUM SHEET OR 14 GAGE SHEET STEEL WHICH IS GALVANIZED.
3. POSTS SHALL BE GALVANIZED AS SPECIFIED BY SECTION 630 OF THE MDT STANDARD SPECIFICATIONS.
4. POSTS SHALL BE 2.0 LBS/FT TO 2.5 LBS/FT.
5. PAYMENT FOR INSTALLED DRAIN TILE MARKERS AND SMALL ANIMAL GUARDS SHALL BE ABSORBED IN THE PRICE FOR PIPE UNDERDRAINS.
6. BOLTS, NUTS, WASHERS AND HARDWARE CLOTH SHALL BE ZINC COATED BY THE MECHANICAL OR HOT DIP GALVANIZING PROCESS.
7. ANIMAL GUARD AND SIGN SHALL BE PLACED IMMEDIATELY AFTER PIPE INSTALLATION

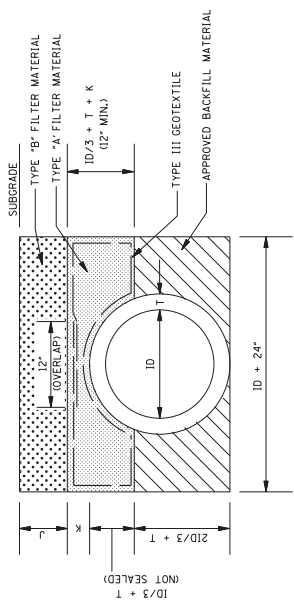
DATE	REVISION



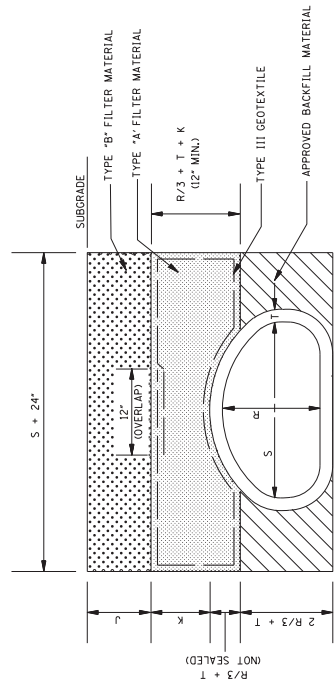
NORMAL UNDERDRAIN TYPE I



NORMAL UNDERDRAIN TYPE II



CIRCULAR STORM DRAIN USED AS UNDERDRAIN



ARCH STORM DRAIN USED AS UNDERDRAIN

PIPE SIZE	T	K	TYPE 'A' MATERIAL (yd ³ /ft)	TYPE 'B' MATERIAL (yd ³ /ft)	TYPE III GEOTEXTILE (yd ² /ft)	IMPERVIOUS MATERIAL (yd ² /ft)
6"	---	---	0.0638	0.0694	0.1593	0.0694
18"	2 1/2"	4"	0.099	0.130	1.193	---
24"	3"	2"	0.100	0.148	1.334	---
30"	3 1/2"	2"	0.124	0.167	1.513	---
36"	4"	2"	0.149	0.185	1.691	---
42"	4 1/2"	2"	0.176	0.204	1.869	---
48"	5"	2"	0.204	0.222	2.048	---
54"	5 1/2"	2"	0.233	0.241	2.226	---
60"	6"	2"	0.264	0.259	2.404	---
66"	6 1/2"	2"	0.296	0.278	2.583	---
72"	7"	2"	0.330	0.296	2.761	---
84"	8"	2"	0.401	0.333	3.118	---
96"	9"	2"	0.477	0.370	3.474	---

*NOTE: yd³/ft = CUBIC YARD PER FOOT DEPTH OF MATERIAL PER FOOT LENGTH OF PIPE.

PIPE SIZE	T	K	TYPE 'A' MATERIAL (yd ³ /ft)	TYPE 'B' MATERIAL (yd ³ /ft)	TYPE III GEOTEXTILE (yd ² /ft)
22" X 13"	2 1/2"	5"	0.109	0.142	1.231
29" X 18"	3"	2 1/2"	0.113	0.162	1.383
36" X 23"	3 1/2"	2"	0.124	0.186	1.537
44" X 27"	4"	2"	0.154	0.209	1.734
51" X 31"	4 1/2"	2"	0.184	0.232	1.913
58" X 36"	5"	2"	0.217	0.255	2.098
65" X 40"	5 1/2"	2"	0.248	0.275	2.158
73" X 45"	6"	2"	0.289	0.299	2.471
88" X 54"	7"	2"	0.374	0.346	2.849

*NOTE: yd³/ft = CUBIC YARD PER FOOT DEPTH OF MATERIAL PER FOOT LENGTH OF PIPE.

GENERAL NOTES:

1. QUANTITIES SHOWN WILL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
2. TYPE I UNDERDRAIN IS GENERALLY USED WHEN UNDERDRAIN IS REQUIRED UNDER THE ROADWAY SUBGRADE.
3. TYPE II UNDERDRAIN IS USED AS REQUIRED OUTSIDE THE ROADWAY.
4. 6" OVERLAP SHALL BE REQUIRED AT THE END OF EACH ROLL OF TYPE III GEOTEXTILE. BOTH THE 6" AND 12" OVERLAP SHALL BE INCLUDED FOR PAYMENT UNDER GEOTEXTILE FOR SUBSURFACE DRAINAGE, TYPE III, PER SQUARE YARD.
5. (L x K) SHALL BE 12" MINIMUM OR VARIABLE DEPTH UNLESS SPECIFIED ELSEWHERE ON THE PLANS.

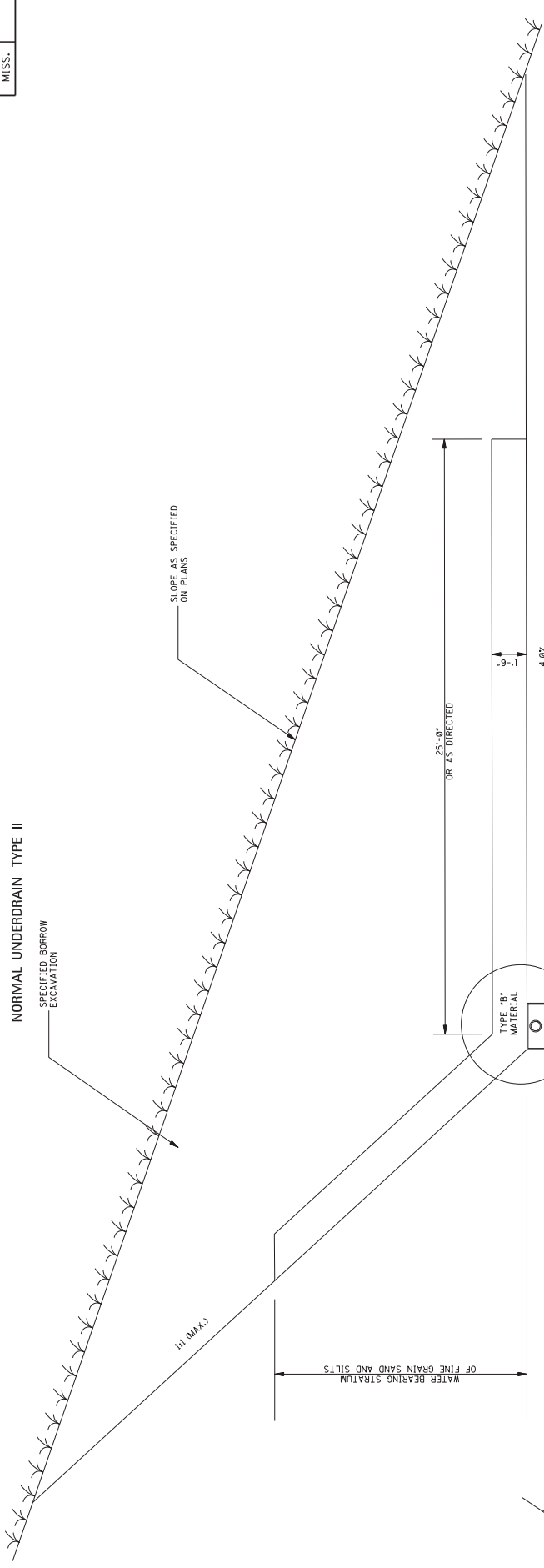
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN
DETAILS OF NORMAL UNDERDRAIN AND STORM DRAIN USED AS UNDERDRAIN

BY	REVISION	DATE

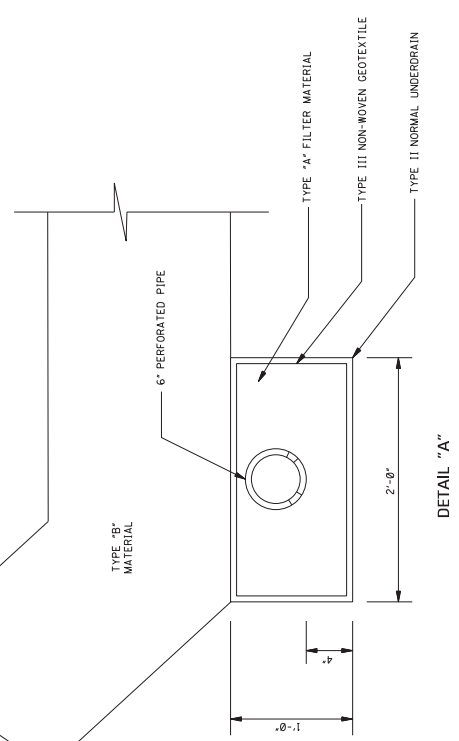
ISSUE DATE: AUGUST 01, 2017

STATE	PROJECT NO.
MISS.	

NORMAL UNDERDRAIN TYPE II



SAND BLANKET DETAIL



GENERAL NOTE:
1. SEE SHEET UD-1 FOR OTHER DETAILS AND RATES.

BY	REVISION

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**NORMAL UNDERDRAIN
TYPE II**

WORKING NUMBER: UD-2
SHEET NUMBER: 65341
ISSUE DATE: AUGUST 01, 2017

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3541

CODE: (SP)

DATE: 07/13/2021

SUBJECT: Liquidated Damages

PROJECT: MP-1041-58(003) / 307744302 – Pontotoc County

Liquidated damages, as referenced in Subsection 108.07, will be **\$3,000.00** per calendar day for this project.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3542

CODE: (SP)

DATE: 07/13/2021

SUBJECT: Lane Closure Restrictions and Additional Work Requirements

PROJECT: MP-1041-58(003) / 307744302 – Pontotoc County

Bidders are hereby advised that **NO WORK OR LANE CLOSURES** will be allowed during the following times throughout the life of the project:

- **Sundays from 7:00 AM to 12 Noon**
- **Wednesdays from 5:00 PM to 8:00 PM**

If the restrictions listed above are violated, the Contractor will be assessed a fee of **\$500.00** for each full or partial five minute period until the roadway is back in compliance with the lane closure restriction requirement.

For the purposes of this contract, official time shall be the announced time available at the Tupelo area telephone number (662) 842-8422.

All night work shall be in accordance with Section 680 – Portable Construction Lighting.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3543

CODE: (SP)

DATE: 07/13/2021

SUBJECT: Project Number Change

PROJECT: MP-1041-58(003) / 307744302 – Pontotoc County

Bidders are hereby advised that any references to Project Number MEP-1041-58(003) / 307744301 in the plans or specifications shall be understood to mean Project Number MP-1041-58(003) / 307744302.

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. 907-105-1

CODE: (SP)

DATE: 05/07/2021

SUBJECT: Authority of the Engineer

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

907-105.1--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.

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. 907-109-3

CODE: (SP)

DATE: 02/23/2021

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.

907-109.06--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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-204-1

CODE: (SP)

DATE: 05/04/2021

SUBJECT: Geogrid

Section 204, Geogrid Reinforcement of Embankment Slopes and Subgrades, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-204.05--Basis of Payment. Add the “907” prefix to the pay item listed in Subsection 204.05 on page 119.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-701-3

CODE: (SP)

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. 907-703-1

CODE: (IS)

DATE: 06/13/2018

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--Course 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.

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. 907-707-2

CODE: (IS)

DATE: 06/05/2019

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.

907-707.02.3--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. 907-714-2

CODE: (SP)

DATE: 06/29/2021

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.

907-714.13--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	II ¹	III	IV	V		VI		VII		VIII	IX
					Separation & Drainage	Separation, Stabilization & Reinforcement	Woven	Non-Woven	Woven	Non-Woven		
Physical Property²												
Grab Strength (lb)	50	90	110	90	200	280	180	450	280	ASTM D 4632		
Elongation (%)	----	50% max @ 45 lb	20% min	50% min @ break	50% min	50% max	50% Min	50% max	50% Min	ASTM D 4632		
Seam Strength (lb)	----	----	70	----	180	240	160	400	240	ASTM D 4632		
Puncture Strength (lb)	----	----	40	----	80	110	75	180	115	ASTM D 6241		
Trapezoidal Tear (lb)	----	----	40	----	80	100	70	150	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	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			
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	ASTM D 4355		
Melting Point °(F)	----	----	----	325	----	----	----	----	----	ASTM D 276		
Minimum Ultimate Tensile Strength ³ (lb/in)	----	----	----	----	----	----	----	----	660	2000		

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. A 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. 907-720-2

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. 907-721-2

CODE: (IS)

DATE: 01/08/2020

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**

Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	Fluorescent Yellow/Green	Fluorescent Yellow	Fluorescent Orange
0.2°	-4.0°	380	285	38	76	17	300	230	115
0.2°	+30.0°	215	162	22	43	10	170	130	65
0.5°	-4.0°	240	180	24	48	11	190	145	72
0.5°	+30.0°	135	100	14	27	6.0	110	81	41
1.0°	-4.0°	80	60	8.0	16	3.6	64	48	24
1.0°	+30.0°	45	34	4.5	9.0	2.0	36	27	14

**TABLE 5
Type XI Sheeting**

Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	Brown	Fluorescent Yellow/Green	Fluorescent Yellow	Fluorescent Orange
0.2°	-4.0°	580	435	58	87	26	17	460	350	175
0.2°	+30.0°	220	165	22	33	10	7.0	180	130	66
0.5°	-4.0°	420	315	42	63	19	13	340	250	125
0.5°	+30.0°	150	110	15	23	7.0	5.0	120	90	45
1.0°	-4.0°	120	90	12	18	5.0	4.0	96	72	36
1.0°	+30.0°	45	34	5.0	7.0	2.0	1.0	36	27	14

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.

Slide Repair on SR 41 approximately 550 feet North of the SR 41 & SR 15 Intersection, known as State Project No. MP-1041-58(003) / 307744302 in Pontotoc County.

Line no.	Item Code	Adj Code	Quantity	Units	Description[Fixed Unit Price]
Roadway Items					
0010	201-A001		1	Lump Sum	Clearing and Grubbing
0020	202-B007		463	Square Yard	Removal of Asphalt Pavement, All Depths
0030	202-B191		95	Linear Feet	Removal of Pipe, 8" And Above
0040	203-A001	(E)	225	Cubic Yard	Unclassified Excavation, FM, AH
0050	203-EX021	(E)	950	Cubic Yard	Borrow Excavation, AH, FME, Class B9-6
0060	203-G001	(E)	1,700	Cubic Yard	Excess Excavation, FM, AH
0070	216-A001		3,000	Square Yard	Solid Sodding
0080	219-A001		2	Thousand Gallon	Watering (\$20.00)
0090	234-A001		460	Linear Feet	Temporary Silt Fence
0100	237-A002		100	Linear Feet	Wattles, 20"
0110	310-B006	(GY)	240	Cubic Yard	Size III Stabilizer Aggregate, Coarse
0120	403-A006	(BA1)	140	Ton	19-mm, ST, Asphalt Pavement
0130	403-A015	(BA1)	150	Ton	9.5-mm, ST, Asphalt Pavement
0140	406-A002		570	Square Yard	Cold Milling of Bituminous Pavement, All Depths
0150	407-A001	(A2)	102	Gallon	Asphalt for Tack Coat
0160	503-C010		52	Linear Feet	Saw Cut, Full Depth
0170	601-B001	(S)	4	Cubic Yard	Class "B" Structural Concrete, Minor Structures
0180	602-A001	(S)	186	Pounds	Reinforcing Steel
0190	603-PE011	(S)	305	Linear Feet	42" Corrugated Polyethylene Pipe
0200	604-B001		464	Pounds	Gratings
0210	605-AA003	(S)	700	Square Yard	Geotextile for Subsurface Drainage, Type V, Non-Woven
0220	605-O004	(S)	160	Linear Feet	6" Perforated Sewer Pipe for Underdrains, SDR 23.5
0230	605-P004	(S)	367	Linear Feet	6" Non-perforated Sewer Pipe for Underdrains, SDR 23.5
0240	605-W001	(GY)	12	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type A, FM
0250	605-Z006		1	Each	Underdrain Appurtenances, Small Animal Guard
0260	618-A001		1	Lump Sum	Maintenance of Traffic
0270	618-B001		1	Square Feet	Additional Construction Signs (\$10.00)
0280	619-A1002		570	Linear Feet	Temporary Traffic Stripe, Continuous White
0290	619-A4001		285	Linear Feet	Temporary Traffic Stripe, Skip Yellow
0300	619-A5001		244	Linear Feet	Temporary Traffic Stripe, Detail
0310	619-A6002		45	Linear Feet	Temporary Traffic Stripe, Legend
0320	620-A001		1	Lump Sum	Mobilization
0330	626-B003		570	Linear Feet	6" Thermoplastic Traffic Stripe, Continuous White
0340	626-D004		285	Linear Feet	6" Thermoplastic Traffic Stripe, Skip Yellow
0350	626-G002		160	Linear Feet	Thermoplastic Detail Stripe, White

Line no.	Item Code	Adj Code	Quantity	Units	Description	Fixed Unit Price
0360	626-G003		84	Linear Feet	Thermoplastic Detail Stripe, Yellow	
0370	626-H005		60	Linear Feet	Thermoplastic Legend, White	
0380	627-J001		28	Each	Two-Way Clear Reflective High Performance Raised Markers	
0390	627-L001		10	Each	Two-Way Yellow Reflective High Performance Raised Markers	
0400	815-A002	(S)	24	Ton	Loose Riprap, Size 100	
0410	907-204-A003		700	Square Yard	Geogrid, Type II, Biaxial	
ALTERNATE GROUP AA NUMBER 1						
0420	304-H001	(GY)	590	Cubic Yard	3/4" and Down Crushed Stone Base, LVM	
ALTERNATE GROUP AA NUMBER 2						
0430	304-H002	(GY)	590	Cubic Yard	Size 610 Crushed Stone Base, LVM	
ALTERNATE GROUP AA NUMBER 3						
0440	304-H003	(GY)	590	Cubic Yard	Size 825B Crushed Stone Base, LVM	

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-1041-58(003)/ 307744302000**

in **Pontotoc** _____ 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 MP-1041-58(003)/ 307744302000

LOCATED IN THE COUNTY(IES) OF Pontotoc

STATE OF MISSISSIPPI,
COUNTY OF HINDS

This contract entered into by and between the Mississippi Transportation Commission on one hand, and the undersigned contractor, on the other witnesseth;

That, in consideration of the payment by the Mississippi Transportation Commission of the prices set out in the proposal hereto attached, to the undersigned contractor, such payment to be made in the manner and at the time of times specified in the specifications and the special provisions, if any, the undersigned contractor hereby agrees to accept the prices stated in the proposal in full compensation for the furnishing of all materials and equipment and the executing of all the work contemplated in this contract.

It is understood and agreed that the advertising according to law, the Advertisement, the instructions to bidders, the proposal for the contract, the specifications, the revisions of the specifications, the special provisions, and also the plans for the work herein contemplated, said plans showing more particularly the details of the work to be done, shall be held to be, and are hereby made a part of this contract by specific reference thereto and with like effect as if each and all of said instruments had been set out fully herein in words and figures.

It is further agreed that for the same consideration the undersigned contractor shall be responsible for all loss or damage arising out of the nature of the work aforesaid; or from the action of the elements and unforeseen obstructions or difficulties which may be encountered in the prosecution of the same and for all risks of every description connected with the work, exceptions being those specifically set out in the contract; and for faithfully completing the whole work in good and workmanlike manner according to the approved Plans, Specifications, Special Provisions, Notice(s) to Bidders and requirements of the Mississippi Department of Transportation.

It is further agreed that the work shall be done under the direct supervision and to the complete satisfaction of the Executive Director of the Mississippi Department of Transportation, or his authorized representatives, and when Federal Funds are involved subject to inspection at all times and approval by the Federal Highway Administration, or its agents as the case may be, or the agents of any other Agency whose funds are involved in accordance with those Acts of the Legislature of the State of Mississippi approved by the Governor and such rules and regulations issued pursuant thereto by the Mississippi Transportation Commission and the authorized Federal Agencies.

The Contractor agrees that all labor as outlined in the Special Provisions may be secured from list furnished by

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

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

Witness our signatures this the ___ day of _____, _____.

Contractor(s)

By _____

MISSISSIPPI TRANSPORTATION COMMISSION

Title _____

By _____

Signed and sealed in the presence of:
(names and addresses of witnesses)

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 AND PAYMENT BOND

CONTRACT BOND FOR: MP-1041-58(003)/307744302000

LOCATED IN THE COUNTY(IES) OF: Pontotoc

STATE OF MISSISSIPPI,
COUNTY OF HINDS

Know all men by these presents: that we, _____
(Contractor)
_____ Principal, a _____

residing at _____ in the State of _____

and _____

(Surety)
residing at _____ in the State of _____,

authorized to do business in the State of Mississippi, under the laws thereof, as surety, effective as of the contract date shown below, are held and firmly bound unto the State of Mississippi in the sum of _____

_____ Dollars, lawful money of the United States of America, to be paid to it for which payment well and truly to be made, we bind ourselves, our heirs, administrators, successors, or assigns jointly and severally by these presents.

The conditions of this bond are such, that whereas the said _____

_____ principal, has (have) entered into a contract with the Mississippi Transportation Commission, bearing the date of _____ day of _____ A.D. _____ hereto annexed, for the construction of certain projects(s) in the State of Mississippi as mentioned in said contract in accordance with the Contract Documents therefor, on file in the offices of the Mississippi Department of Transportation, Jackson, Mississippi.

Now therefore, if the above bounden _____ in all things shall stand to and abide by and well and truly observe, do keep and perform all and singular the terms, covenants, conditions, guarantees and agreements in said contract, contained on his (their) part to be observed, done, kept and performed and each of them, at the time and in the manner and form and furnish all of the material and equipment specified in said contract in strict accordance with the terms of said contract which said plans, specifications and special provisions are included in and form a part of said contract and shall maintain the said work contemplated until its final completion and acceptance as specified in Subsection 109.11 of the approved specifications, and save harmless said Mississippi Transportation Commission from any loss or damage arising out of or occasioned by the negligence, wrongful or criminal act, overcharge, fraud, or any other loss or damage whatsoever, on the part of said principal (s), his (their) agents, servants, or employees in the performance of said work or in any manner connected therewith, and shall be liable and responsible in a civil action instituted by the State at the instance of the Mississippi Transportation Commission or any officer of the State authorized in such cases, for double any amount in money or property, the State may lose or be overcharged or otherwise defrauded of, by reason of wrongful or criminal act, if any, of the Contractor(s), his (their) agents or employees, and shall promptly pay the said agents, servants and employees and all persons furnishing labor, material, equipment or supplies therefor, including premiums incurred, for Surety Bonds, Liability Insurance, and Workmen's Compensation Insurance; with the additional obligation that such Contractor shall promptly make payment of all taxes, licenses, assessments, contributions, damages,

any liquidated damages which may arise prior to any termination of said principal's contract, any liquidated damages which may arise after termination of the said principal's contract due to default on the part of said principal, penalties and interest thereon, when and as the same may be due this state, or any county, municipality, board, department, commission or political subdivision: in the course of the performance of said work and in accordance with Sections 31-5-51 et seq. Mississippi Code of 1972, and other State statutes applicable thereto, and shall carry out to the letter and to the satisfaction of the Executive Director of the Mississippi Department of Transportation, all, each and every one of the stipulations, obligations, conditions, covenants and agreements and terms of said contract in accordance with the terms thereof and all of the expense and cost and attorney's fee that may be incurred in the enforcement of the performance of said contract, or in the enforcement of the conditions and obligations of this bond, then this obligation shall be null and void, otherwise to be and remain in full force and virtue.

_____	_____
(Contractors) Principal	Surety
By _____	By _____
	(Signature) Attorney in Fact
	Address _____

Title _____	_____
(Contractor's Seal)	(Printed) MS Agent

	(Signature) MS Agent
	Address _____

	(Surety Seal)

	Mississippi Insurance ID Number



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 **Slide Repair on SR 41 approximately 550 feet North of the SR 41 & SR 15 Intersection, known as State Project No. MP-1041-58(003) / 307744302 in Pontotoc 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