



SM No. CMP2310360013

PROPOSAL AND CONTRACT DOCUMENTS

FOR THE CONSTRUCTION OF

06

Mill & Overlay SR 310 from Panola County Line to Marshall County Line, known as
State Project No. MP-2310-36(001) / 306035301 in Lafayette County.

Project Completion: 61 Working Days

(STATE DELEGATED)

NOTICE

**BIDDERS MUST PURCHASE A BID PROPOSAL FROM
MDOT CONTRACT ADMINISTRATION DIVISION 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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OF SECTION 905 AS ADDENDA)

07/26/2017 01:10 PM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 901 - ADVERTISEMENT

Electronic bids will be received by the Mississippi Transportation Commission at 10:00 o'clock A.M., Tuesday, August 22, 2017, from the Bid Express Service and shortly thereafter publicly read on the Sixth Floor for:

Mill & Overlay SR 310 from Panola County Line to Marshall County Line, known as State Project No. MP-2310-36(001) / 306035301 in Lafayette County.

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

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

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

Bid proposals must be purchased online at <https://shopmdot.ms.gov>. Specimen proposals may be viewed and downloaded online at no cost at <http://mdot.ms.gov> or purchased online. Proposals are available 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.

MELINDA L. MCGRATH
EXECUTIVE DIRECTOR

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1

CODE: (IS)

DATE: 03/01/2017

SUBJECT: Governing Specifications

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Transportation Commission is made a part hereof fully and completely as if it were attached hereto, except where superseded by special provisions, or amended by revisions of the Specifications contained within this proposal.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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3

CODE: (SP)

DATE: 01/17/2017

SUBJECT: Final Clean-Up

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 8

CODE: (SP)

DATE: 07/19/2017

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. |
| 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 “AASHTO’s <u>LRFD</u> ”. |
| 532 | 642.02.6.6.2 | Change the subsection number from “642.02.6.6.2” to “632.02.6.6.2” |
| 532 | 642.02.6.6.2 | Change “Section 661” to “Section 907-661.” |
| 532 | 632.02.6.6.4 | Change “Subsection 663.02.2” to “Subsection 907-663.02.2.” |
| 554 | 634.05 | In the description for 634-A, change “___’ Pole” to “___’ Shaft.” |

| | | |
|-----|---------------|---|
| 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. 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_wghts/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. 12

CODE: (IS)

DATE: 03/01/2017

SUBJECT: MASH Compliant Devices

Bidders are hereby advised that the Standard Specifications may require certain traffic control and permanent safety hardware devices to meet the requirements of the Manual for Assessing Safety Hardware (MASH). However, devices meeting the requirements of NCHRP Report 350 will be allowed until the mandatory effective date for MASH compliance. The following table shows the effective dates for MASH compliant devices.

| Device | Effective Date for MASH Compliance |
|--|------------------------------------|
| W-beam barriers, cast-in-place concrete barriers | December 31, 2017 |
| W-beam terminals | June 30, 2018 |
| Cable barriers, cable barrier terminals, crash cushions | December 31, 2018 |
| Bridge rails, transitions, all other longitudinal barriers including portable barriers installed permanently, all other terminals, sign supports, all other breakaway hardware | December 31, 2019 |

Temporary work zone devices, including portable barriers manufactured after December 31, 2019, must have been successfully tested to the 2016 Edition of MASH. Such devices manufactured on or before this date and successfully tested to NCHRP Report 350 or the 2009 Edition of MASH may continue to be used throughout their normal service lives.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

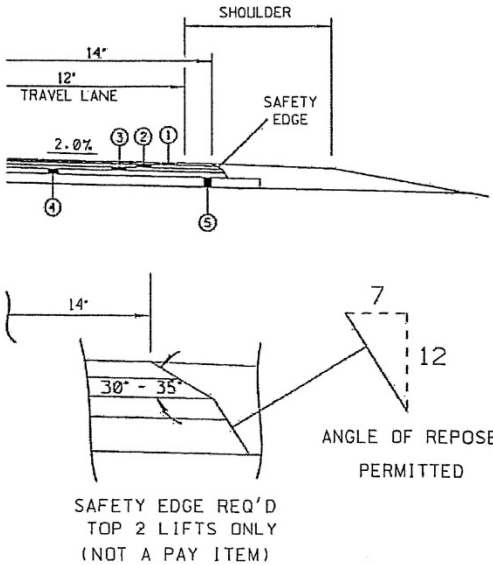
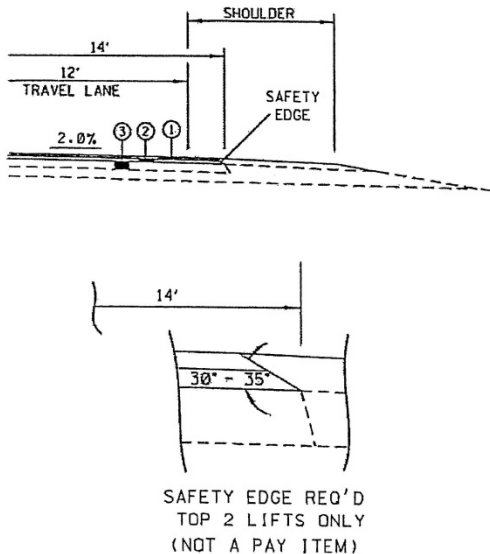
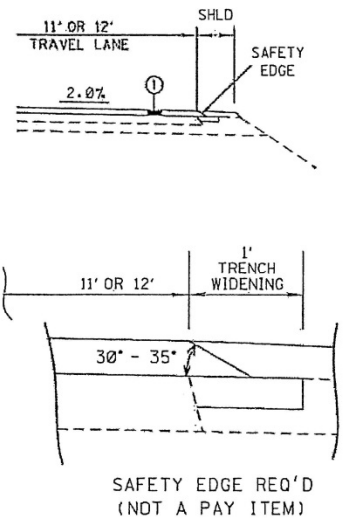
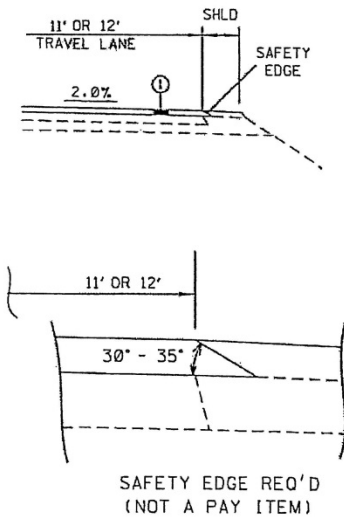
SECTION 904 - NOTICE TO BIDDERS NO. 13

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').

| | |
|---|--|
|  <p>SHOULDER 14' 12' TRAVEL LANE 2.0% SAFETY EDGE</p> <p>30° - 35° 7' 12' ANGLE OF REPOSE PERMITTED</p> <p>SAFETY EDGE REQ'D TOP 2 LIFTS ONLY (NOT A PAY ITEM)</p> <p>NEW CONSTRUCTION</p> |  <p>SHOULDER 14' 12' TRAVEL LANE 2.0% SAFETY EDGE</p> <p>30° - 35° 14' SAFETY EDGE REQ'D TOP 2 LIFTS ONLY (NOT A PAY ITEM)</p> <p>OVERLAY 14' PAVEMENT</p> |
|  <p>11' OR 12' TRAVEL LANE SHLD 2.0% SAFETY EDGE</p> <p>1' TRENCH WIDENING 30° - 35° 11' OR 12'</p> <p>SAFETY EDGE REQ'D (NOT A PAY ITEM)</p> <p>OVERLAY 11' OR 12' PAVEMENT WITH TRENCH WIDENING</p> |  <p>11' OR 12' TRAVEL LANE SHLD 2.0% SAFETY EDGE</p> <p>30° - 35° 11' OR 12'</p> <p>SAFETY EDGE REQ'D (NOT A PAY ITEM)</p> <p>OVERLAY 11' OR 12' PAVEMENT WITHOUT TRENCH WIDENING</p> |
| <p>SAFETY EDGE DETAILS 4/8/2011</p> | |

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. 115

CODE: (SP)

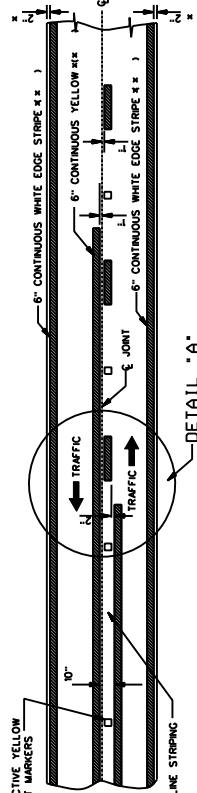
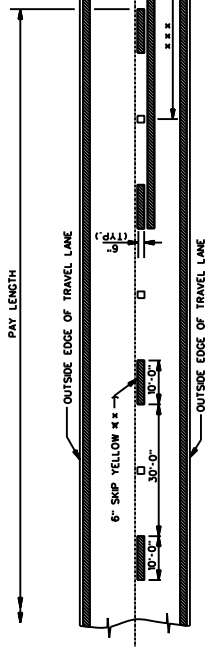
DATE: 04/19/2017

SUBJECT: Standard Drawings

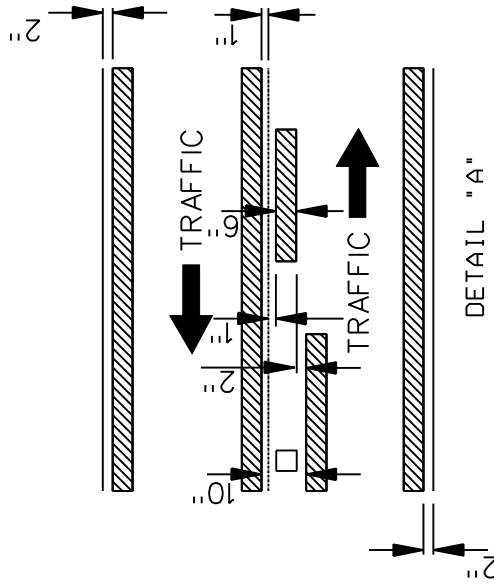
Standard Drawings attached hereto shall govern appropriate items of required work.

Larger copies of Standard Drawings may be purchased from:

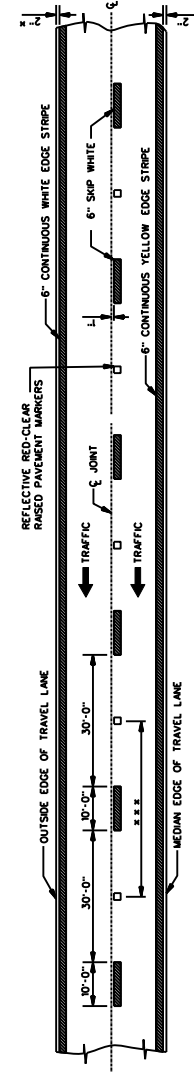
MDOT Plans Print Shop
MDOT Shop Complex, Building C, Room 114
2567 North West Street
P.O. Box 1850
Jackson, MS 39215-1850
Telephone: (601) 359-7460
or FAX: (601) 359-7461
or e-mail: plans@mdot.state.ms.us



TWO-WAY TRAFFIC
(ASPHALT OR CONCRETE PAVEMENT)



DETAIL "A"



4-LANE WITH ONE-WAY TRAFFIC



GENERAL NOTES:

1. 2" UNLESS SHOWN ELSEWHERE ON THE PLANS.
 2. EDGE STRIPES SHALL BE SAME MATERIAL AS LANE-LINE STRIPES (PAINT OR PLASTIC AS INDICATED IN PAY ITEMS).
 3. SPACING OF REFLECTIVE RAISED PAVEMENT MARKERS IS AS FOLLOWS:
- | TANGENT SECTIONS | HORIZONTAL CURVES | INTERCHANGE LIMITS | URBAN AREA (11-in) | RURAL AREA (11-in) |
|------------------|-------------------|--------------------|--------------------|--------------------|
| 40'-0" | 80'-0" | 40'-0" | 40'-0" | 40'-0" |
| 40'-0" | 40'-0" | 40'-0" | 40'-0" | 140'-0" |
- NOTE: ON THE MAIN FACILITY REFLECTIVE RED-CLEAR BASED PAVEMENT MARKERS ON A 40'-0" SPACING WILL BE REQUIRED ON LANE-LINES THROUGH ALL INTERCHANGE AREAS BEGINNING 1000' IN ADVANCE (IN DIRECTION OF TRAFFIC) OF THE EXIT RAMP AND ENDING 1000' IN ADVANCE (IN DIRECTION OF TRAFFIC) OF THE END OF THE ENTRANCE RAMP TAPER.
4. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE REFLECTIVE RAISED PAVEMENT MARKERS AS LISTED IN THE MOOT "APPROVED SOURCES OF MATERIALS."

Notice To Bidders

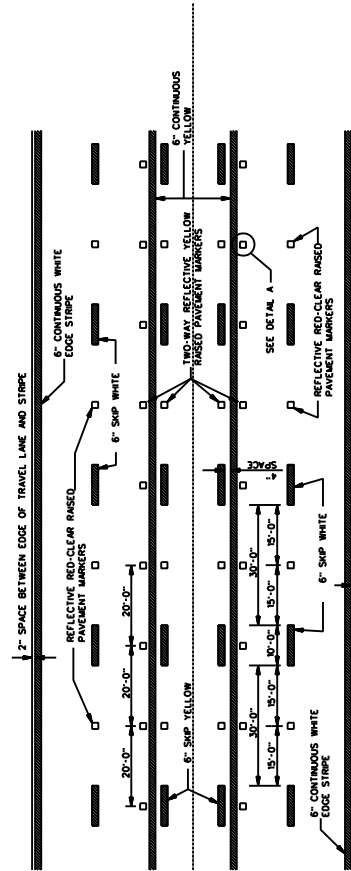
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

PAVEMENT MARKING
DETAILS FOR
2-LANE AND 4-LANE
DIVIDED HIGHWAYS

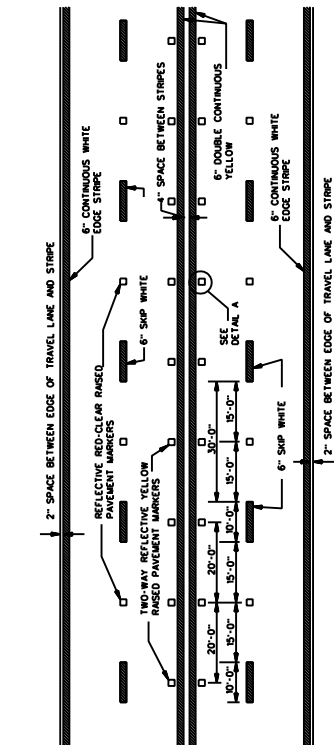
WORKSHEET NO. PM-1

DATE: 10-1-99
REVISION: 10-1-99
ISSUE DATE: OCTOBER 1, 1998

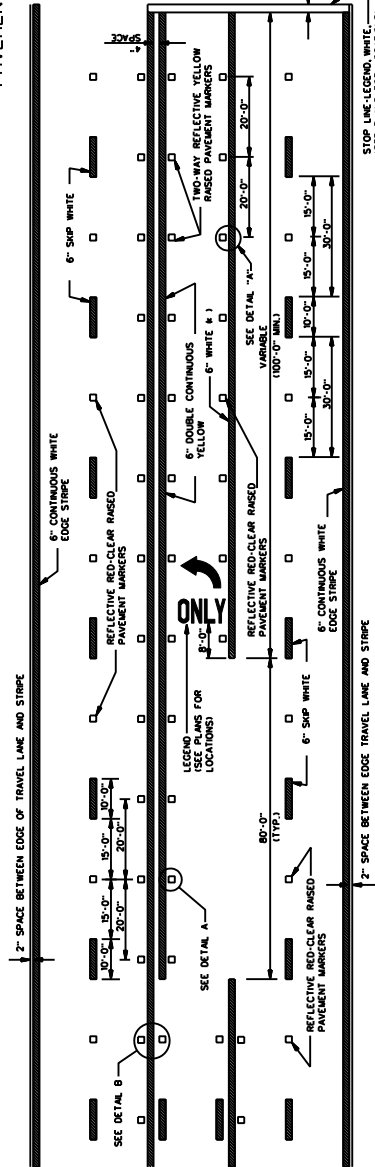
| | |
|-------|-------------|
| STATE | PROJECT NO. |
| MISS. | |



TYPICAL STRIPING AND RAISED PAVEMENT MARKERS FOR 5-LANE SECTION

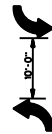


TYPICAL STRIPING AND RAISED PAVEMENT MARKERS FOR 4-LANE SECTION

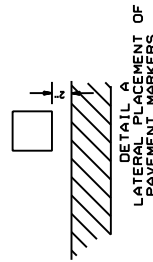


TYPICAL STRIPING AND RAISED PAVEMENT MARKERS AT LEFT TURN LANES

*NOTE: USE DETAIL STRIPING IF LENGTH < 150' AT THIS LOCATION, OTHERWISE USE CONTINUOUS STRIPING.

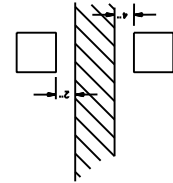


TYPICAL TWO-WAY ARROW INSTALLATION
NOTES: 1. CONSIDER EACH SEGMENT OF CONTINUOUS TWO-WAY LEFT TURN LANE SEPARATELY.
2. IF SEGMENT IS LESS THAN 300', PLACE ONE SET OF ARROWS IN CENTER OF SEGMENT.
3. IF SEGMENT IS GREATER THAN 300', PLACE FIRST SET OF ARROWS 50' TO 100' FROM BEGINNING AND/OR END OF SEGMENT AND SPACE ADDITIONAL SETS OF ARROWS (250' O.C.).



DETAIL A
LATERAL PLACEMENT OF PAVEMENT MARKERS

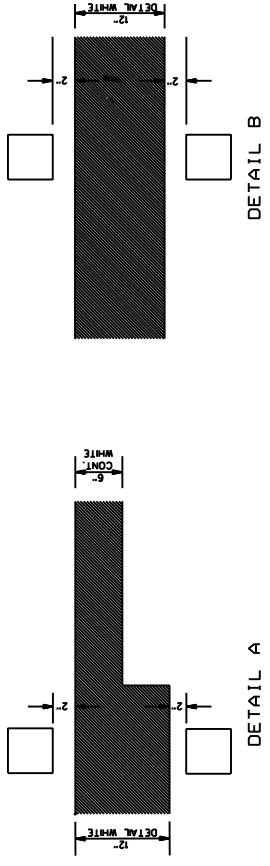
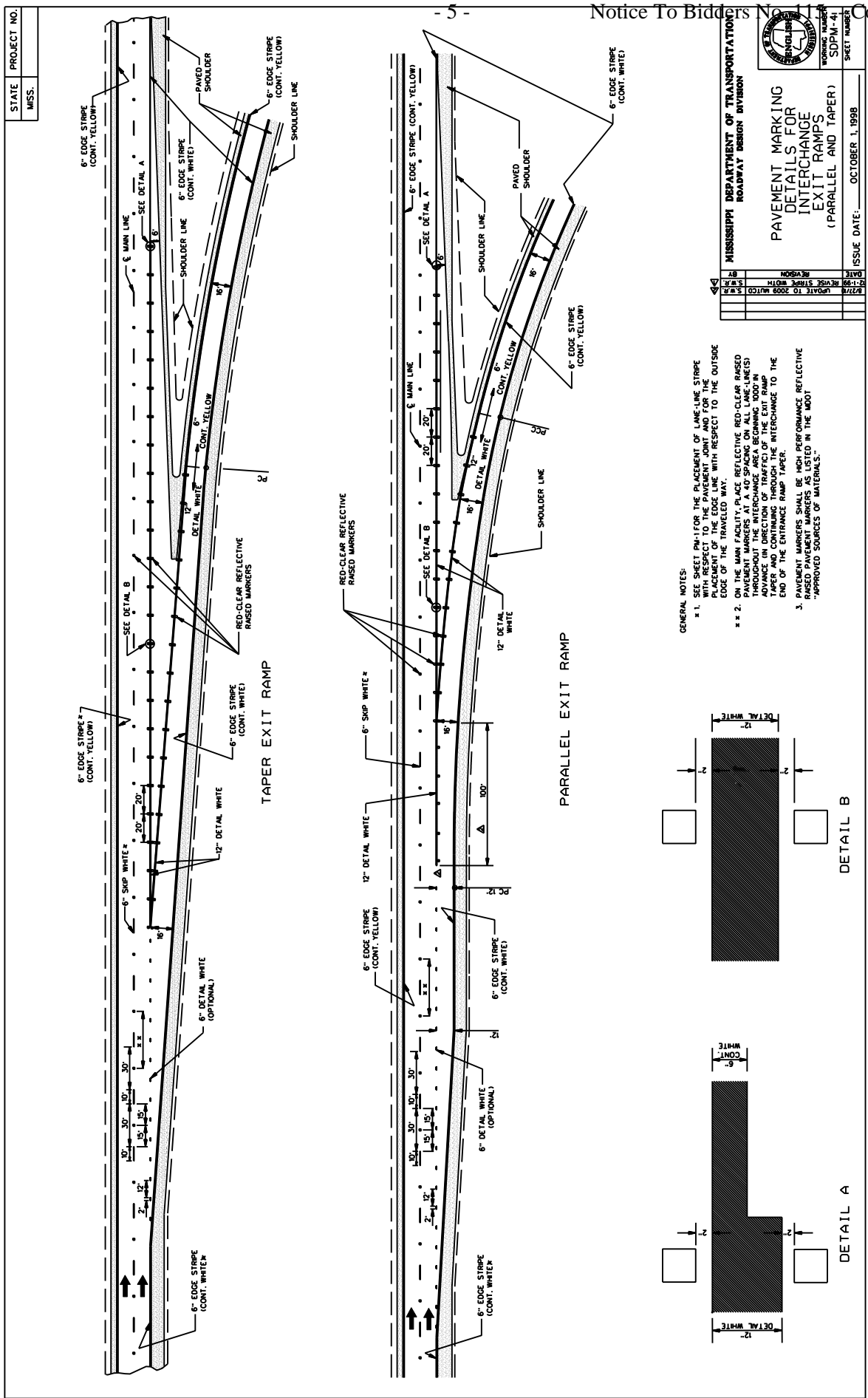
GENERAL NOTE:
1. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE RAISED PAVEMENT MARKERS AS LISTED IN THE ADOT-APPROVED SOURCES OF MATERIALS.



DETAIL B
LATERAL PLACEMENT OF PAVEMENT MARKERS

| | |
|--|------------|
| MISSISSIPPI DEPARTMENT OF TRANSPORTATION | |
| PAVEMENT MARKING | |
| DETAILS FOR | |
| 4-LANE AND 5-LANE | |
| UNDIVIDED ROADWAYS | |
| DATE | 03/19/15 |
| FILENAME | SDPM-2.DGN |
| SHEET NUMBER | 02 |
| PROJECT NUMBER | 115 |





- GENERAL NOTES:
- # 1. SEE SHEET PM-1 FOR THE PLACEMENT OF LINE-LINE STRIPE WITH RESPECT TO THE PAVEMENT JOINT AND FOR THE PLACEMENT OF THE EDGE LINE WITH RESPECT TO THE OUTSIDE EDGE OF THE PARALLEL RAMP.
 - # 2. IN THE INTERCHANGE AREA, PLACE REFLECTIVE RED-CLEAR BASED PAVEMENT MARKINGS TO INDICATE THE BEGINNING OF THE INTERCHANGE AREA BEGINNING 1000' IN ADVANCE (IN DIRECTION OF TRAFFIC) OF THE EXIT RAMP TAPER AND CONTINUING THROUGH THE INTERCHANGE TO THE END OF THE ENTRANCE RAMP TAPER.
 - # 3. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE REFLECTIVE PAVEMENT MARKERS PLACED IN THE MOOT APPROVED SOURCES OF MATERIALS.

STATE: MISS.

PROJECT NO.:

5

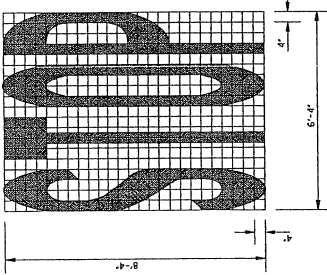
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION

PAVEMENT MARKING
DETAILS FOR
INTERCHANGE
EXIT RAMP
(PARALLEL AND TAPER)

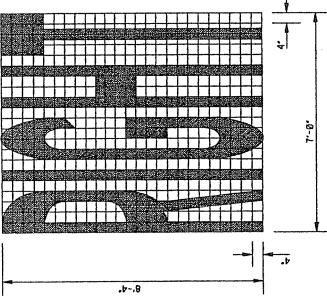
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| 10/1/98 | W.M. | W.M. | W.M. | W.M. | SDPM-41 | |

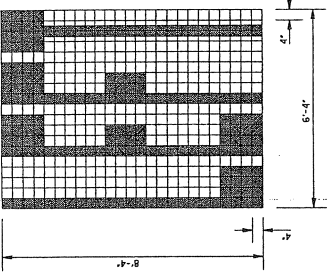
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| STATE MISS. | PROJECT NO. | | |
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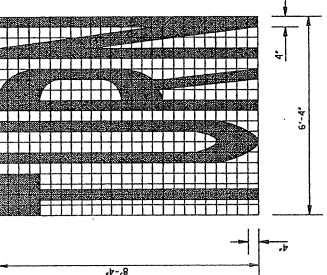
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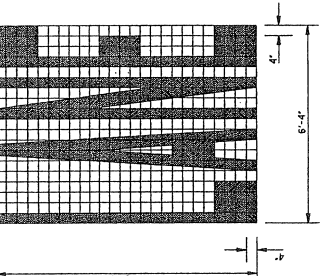
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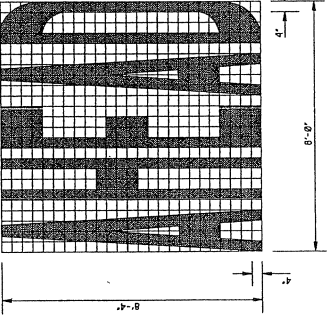
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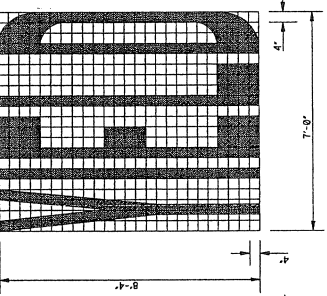
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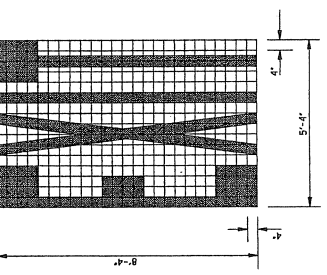
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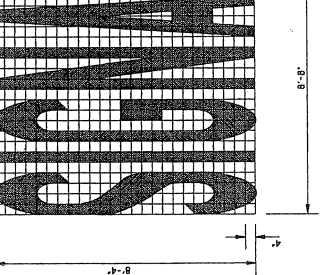
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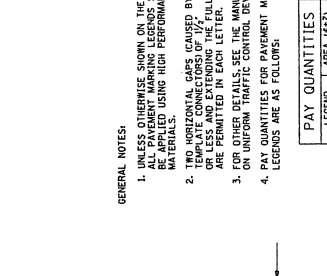
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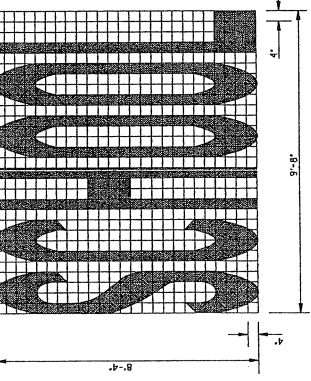
8'-4" x 5'-4"



8'-4" x 8'-0"



8'-4" x 8'-0"



8'-4" x 9'-6"

GENERAL NOTES:

1. UNLESS OTHERWISE SHOWN ON THE PLANS, ALL PAVEMENT MARKING LEGENDS SHALL BE APPLIED USING HIGH PERFORMANCE MATERIALS.
2. TWO HORIZONTAL GAPS (CAUSED BY GRLEES AND EXTENDING 1/2" ALL WIDTH) SHALL BE MAINTAINED BETWEEN LETTERS FOR OTHER DETAILS SEE THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES.
3. PAY QUANTITIES FOR PAVEMENT MARKING LEGENDS ARE AS FOLLOWS:

| LEGEND | AREA (FT ²) |
|--------|-------------------------|
| STOP | 24.6 |
| RIGHT | 19.8 |
| EXIT | 27.3 |
| LANE | 22.7 |
| AHEAD | 32.3 |
| SCHOOL | 35.5 |

PAY QUANTITIES

| LEGEND | AREA (FT ²) |
|--------|-------------------------|
| STOP | 24.6 |
| RIGHT | 19.8 |
| EXIT | 27.3 |
| LANE | 22.7 |
| AHEAD | 32.3 |
| SCHOOL | 35.5 |

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**PAVEMENT MARKING
LEGEND DETAILS**

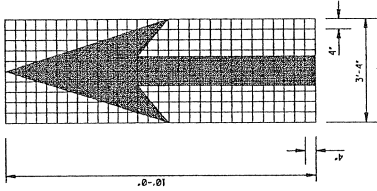
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BY: _____

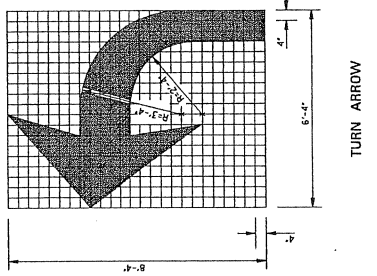
ISSUE DATE: OCTOBER 1, 1998

SHEET NUMBER: 124

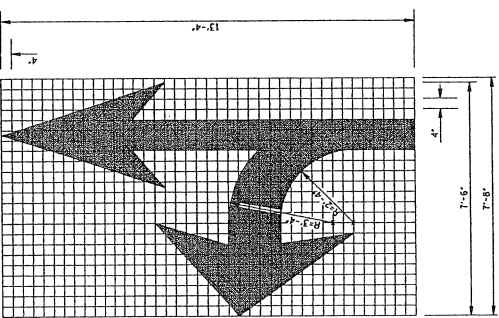
| | |
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| STATE PROJECT NO. MISS. | |
|----------------------------|--|



THRU ARROW



TURN ARROW

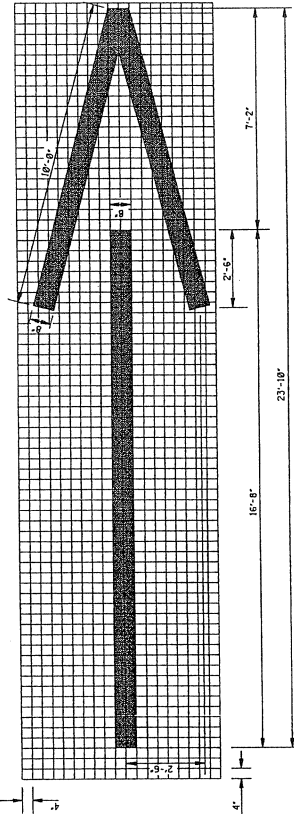


COMBINATION ARROW

GENERAL NOTES:

1. UNLESS OTHERWISE SHOWN ON THE PLANS, ALL ARROWS SHALL BE APPLIED USING HIGH PERFORMANCE MATERIALS.
2. TWO HORIZONTAL GAPS CAUSED BY TEMPLATE CONNECTORS OF 1/2" OR LESS AND EXTENDING THE FULL WIDTH ARE PERMITTED IN EACH LETTER.
3. FOR OTHER DETAILS, SEE THE MANUAL ON UNIFORM PAVEMENT MARKING.
4. PAY QUANTITIES FOR PAVEMENT MARKING LEGENDS ARE AS FOLLOWS:

| PAY QUANTITIES | |
|-------------------|-------------------------|
| LEGEND/SYMBOL | AREA (ft ²) |
| ONLY | 22.0 |
| TURN ARROW | 16.4 |
| COMBINATION ARROW | 27.5 |
| 1-WAY ARROW | 24.3 |



1-WAY ARROW

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

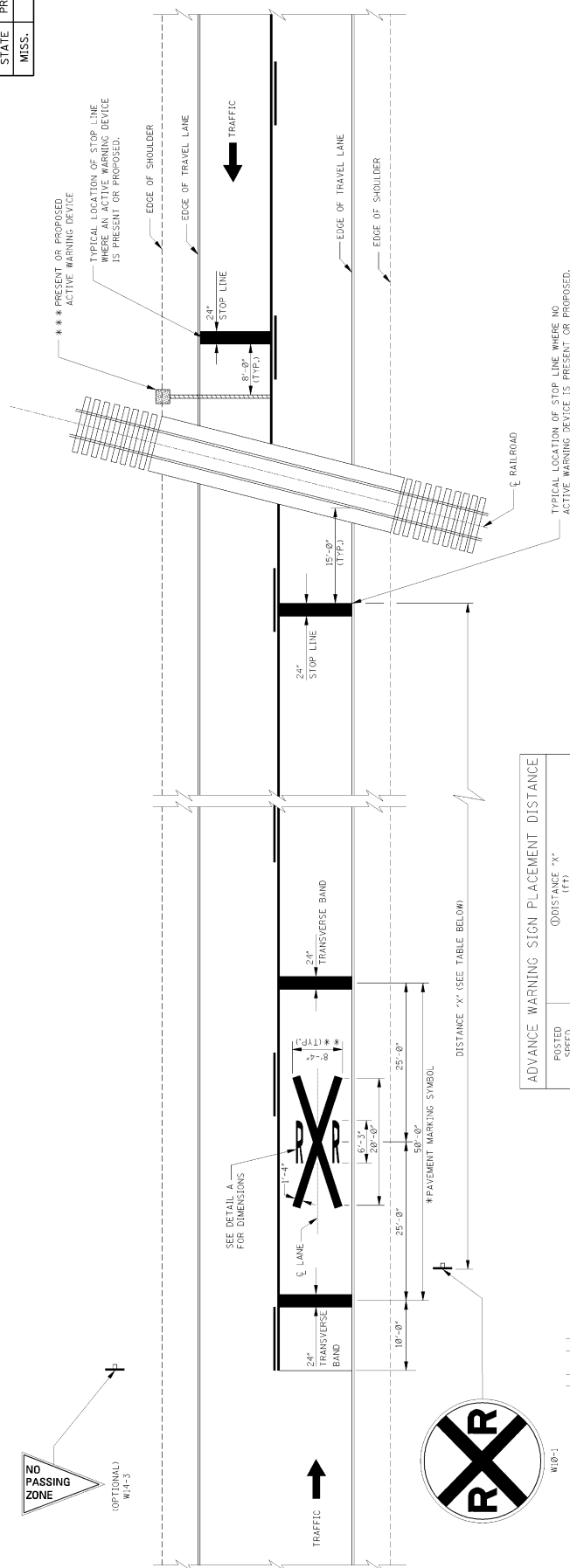
**PAVEMENT MARKING
LEGEND DETAILS**

| | | |
|------|----|----------|
| DATE | BY | REVISION |
| | | |

ISSUE DATE: OCTOBER 1, 1998

WORKING NUMBER: PM-6

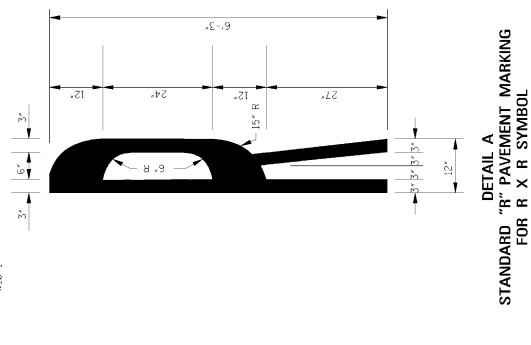
SHEET NUMBER: 125



| ADVANCE WARNING SIGN PLACEMENT DISTANCE | POSTED SPEED (mph) | ØDISTANCE "X" (ft) | |
|---|--------------------|--------------------|-------|
| | | RURAL | URBAN |
| 20 | 175 | | 100 |
| 25 | 250 | | 100 |
| 30 | 375 | | 100 |
| 35 | 400 | | ② 150 |
| 40 | 475 | | ② 225 |
| 45 | 550 | | 300 |
| 50 | 625 | | 375 |
| 55 | 700 | | 450 |
| 60 | 775 | | 550 |

NOTES:
DISTANCE "X" MAY BE ADJUSTED IF PROHIBITIVE PHYSICAL
CONDITIONS EXIST AT THE DESIGNATED DISTANCE.

② THESE DISTANCES MAY BE ADJUSTED TO A MINIMUM OF 100' IN RESIDENTIAL AREAS OR BUSINESS DISTRICTS WHERE LOW SPEEDS ARE PREVALENT.



DETAIL A
STANDARD "R" PAVEMENT MARKING
FOR R X R SYMBOL

GENERAL NOTES:

*1. A PORTION OF THE PAVEMENT MARKING SYMBOL SHOULD BE DIRECTLY OPPOSITE THE ADVANCE WARNING SIGN (W10-1).

**2. WIDTH OF R X R SYMBOL MAY VARY ACCORDING TO LANE WIDTH. HOWEVER, ON MULTI-LANE ROADS, THE TRANSVERSE BANDS AND STOP LINE SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE

3. R X R SYMBOL (63.0 #²), TRANSVERSE BANDS AND STOP LINE SHALL BE PAID FOR AS LEGEND, WHITE (PLASTIC). (MATERIAL OPTIONAL FOR OTHER AGENCIES).

***4. REFER TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" FOR LOCATION OF PROPOSED WARNING DEVICES AT RAILROAD-HIGHWAY GRADE CROSSINGS.

NOTES:
D DISTANCE *X* MAY BE ADJUSTED IF PROHIBITIVE PHYSICAL
CONDITIONS EXIST AT THE DESIGNATED DISTANCE.

② THESE DISTANCES MAY BE ADJUSTED TO A MINIMUM OF 100' IN RESIDENTIAL AREAS OR BUSINESS DISTRICTS WHERE LOW SPEEDS ARE PREVALENT.

- 8 -

Notice To Bidders No. 115 - Cont'd.

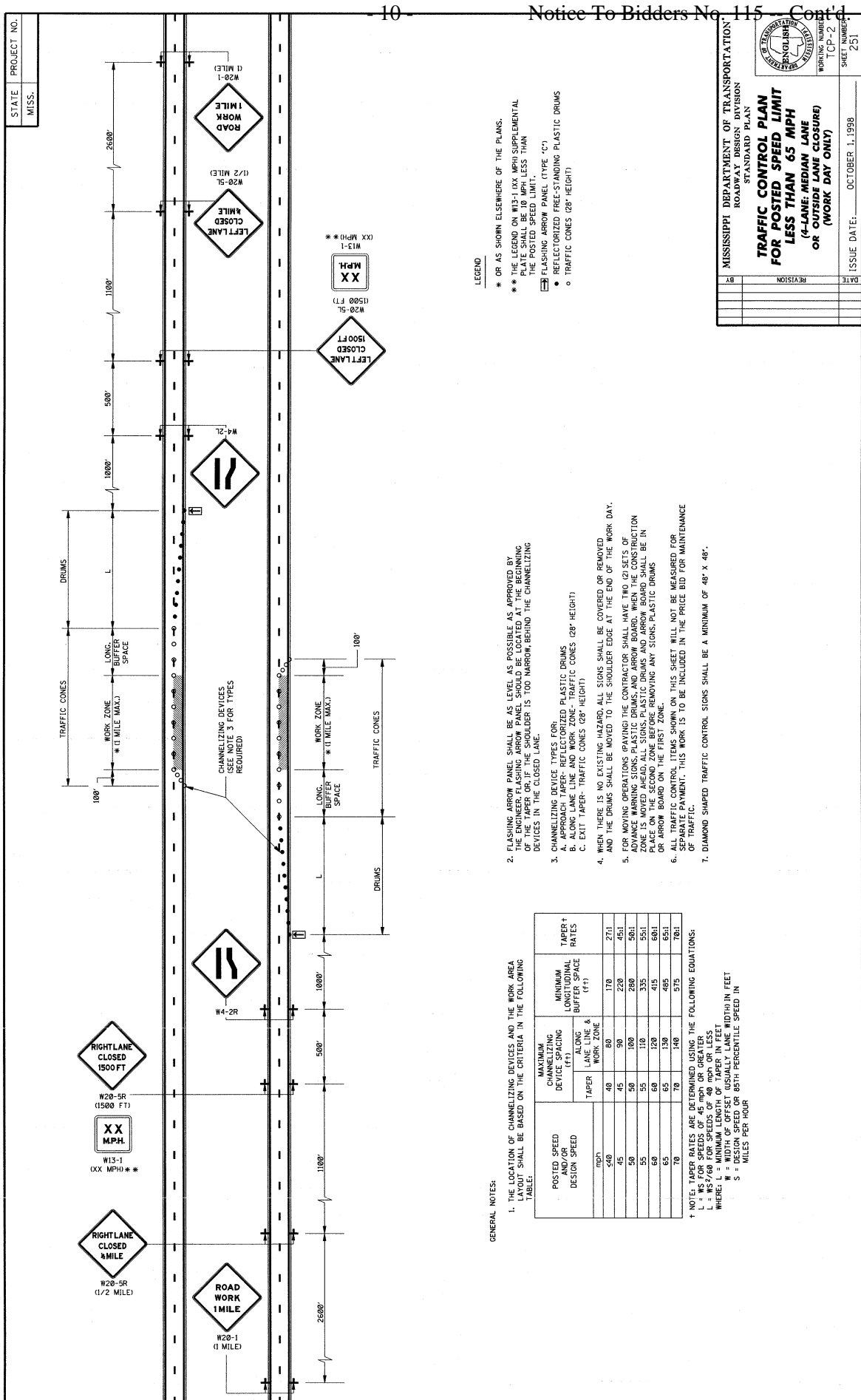
| | | |
|-------|-------------|--------|
| DATE | REVISION | BY |
| 01-02 | REVISE NOTE | S.W.R. |
| | | |
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| | | |

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

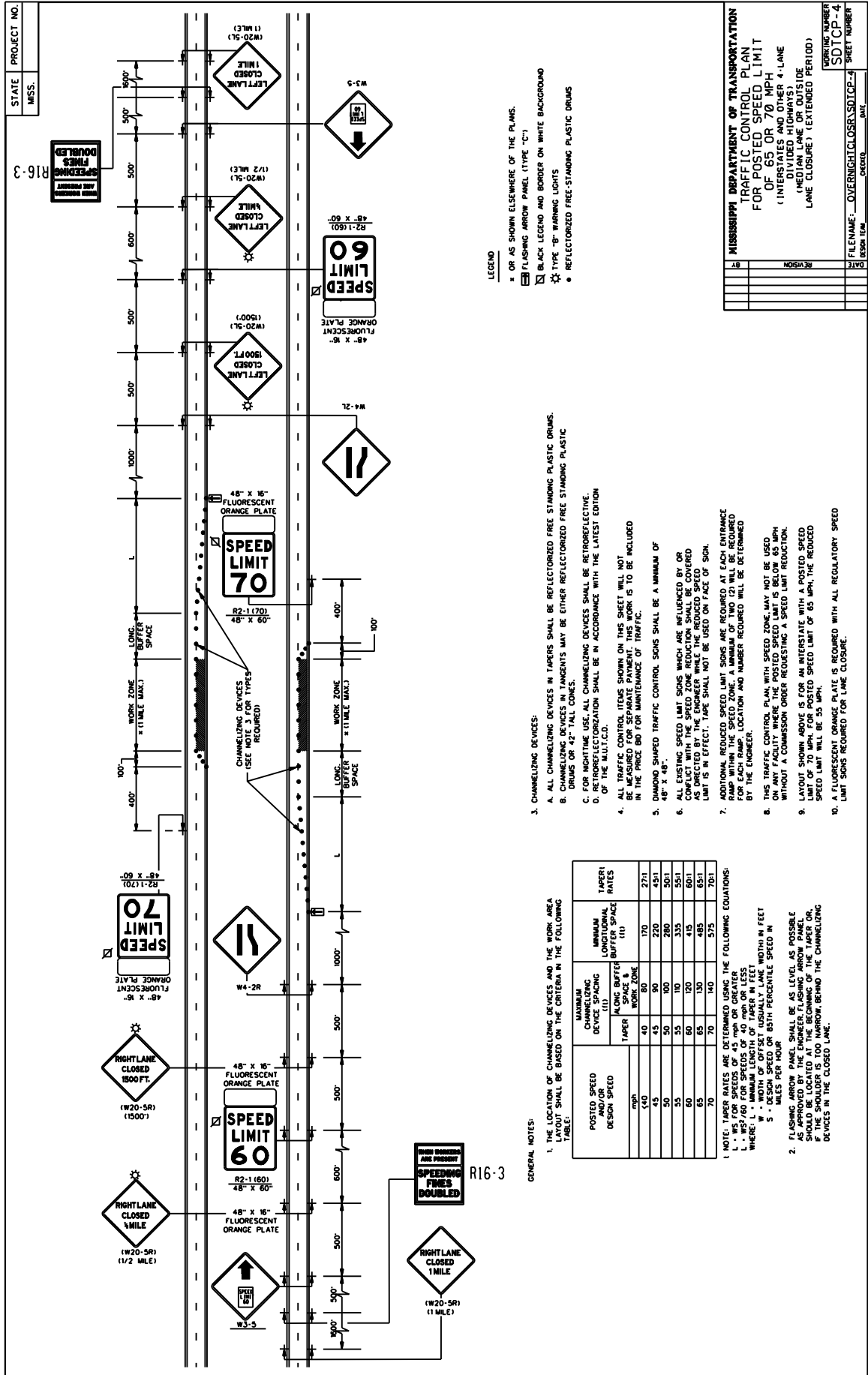
TYPICAL PLACEMENT OF WARNING SIGNS AND PAVEMENT MARKINGS AT RAILROAD HIGHWAY GRADE CROSSINGS

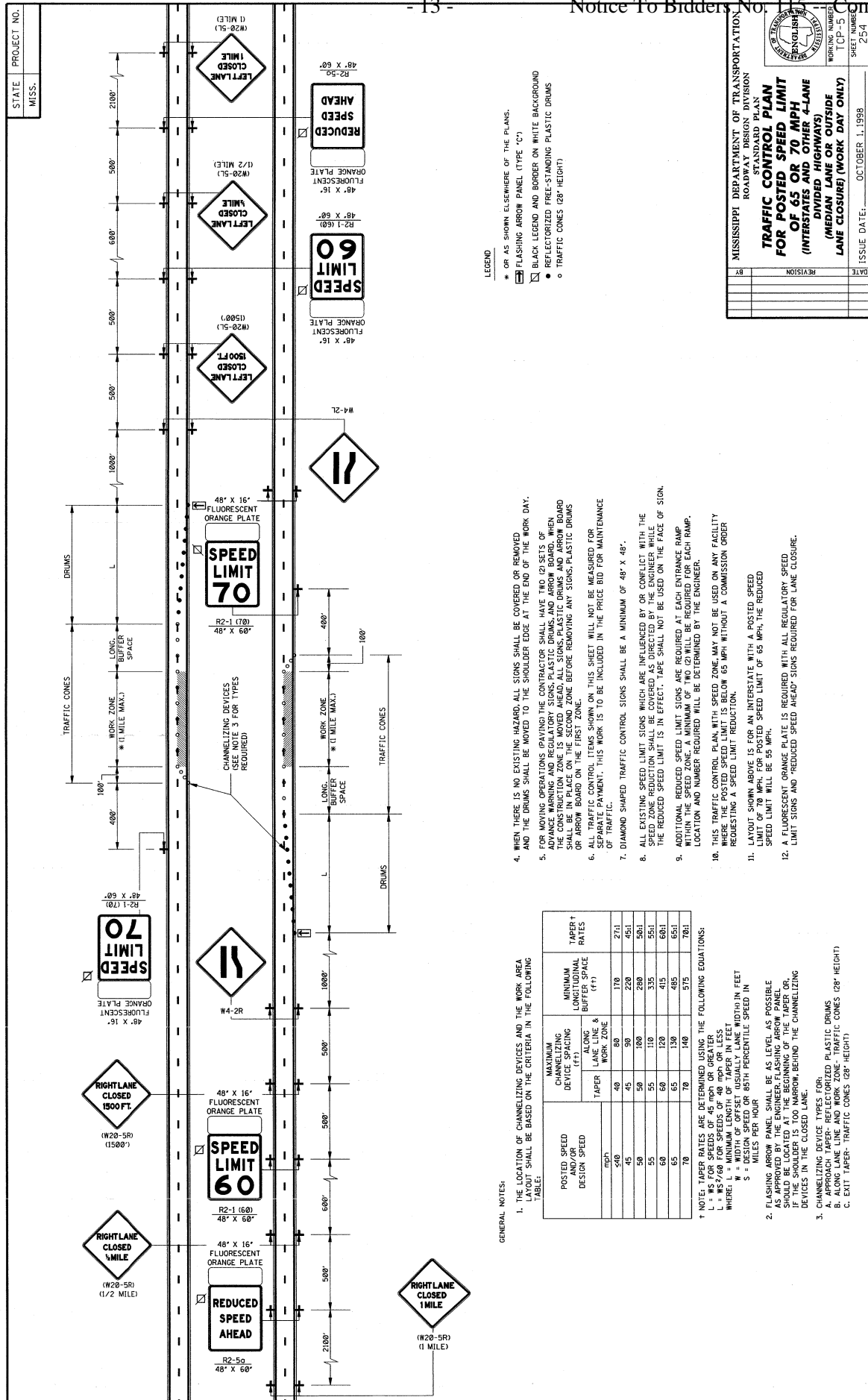
WORKING NUMBER
PM-7
SHEET NUMBER
126

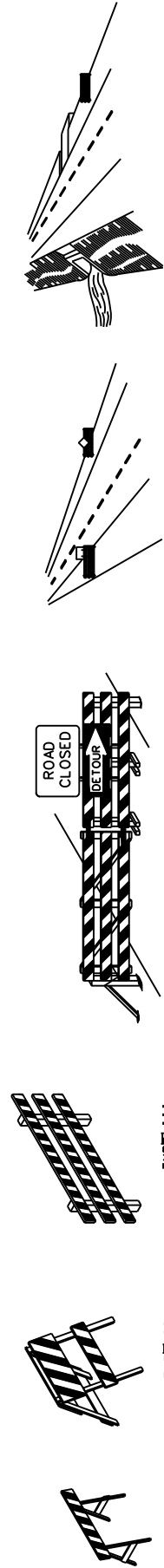
OCTOBER 1, 1998











TYPE I TYPE II TYPE III

BARRICADE CLOSING A ROAD

WING BARRICADES

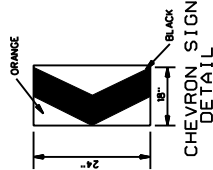
- WING BARRICADES ARE TYPE BARRICADES ERECTED ON THE SHOULDER ON ONE OR BOTH SIDES OF THE PAVEMENT TO GIVE THE SENSATION OF A NARROWING OR RESTRICTED ROADWAY. WING BARRICADES MAY BE USED AS A WARNING FOR THE ADVANCE WARNING SIGNS OR FLASHERS.
- WING BARRICADES SHOULD BE USED:
 - IN ADVANCE OF A CONSTRUCTION PROJECT EVEN WHEN NO PART OF THE ROADWAY IS ACTUALLY CLOSED.
 - IN ADVANCE OF ALL BRIDGE OR CULVERT MOVING OPERATIONS.

BARRICADE CHARACTERISTICS

| | I | II | III |
|------------------------------------|----------------------|------------------------|---------------------------------------|
| WIDTH OF RAIL x x | 8" MIN. - 12" MAX. | 8" MIN. - 12" MAX. | 8" MIN. - 12" MAX. |
| LENGTH OF RAIL x x | 24" MIN. | 24" MIN. | 48" MIN. |
| WIDTH OF STRIPES x | 6" | 6" | 6" |
| HEIGHT | 35" MIN. | 35" MIN. | 60" MIN. |
| NUMBER OF REFLECTORIZED RAIL FACES | 2 ONE EACH DIRECTION | 4 (TWO EACH DIRECTION) | 6 IF FACING TRAFFIC IN TWO DIRECTIONS |
| TYPE OF FRAME | LIGHT | LIGHT "X" FRAME | POST OR SHD |

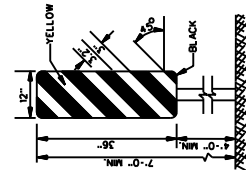
STANDARD BARRICADES

- A TYPE BARRICADE CONSISTS OF ONE (1) HORIZONTAL RAIL SUPPORTED BY A DEMOUNTABLE POST OR FRAME. THE BARRICADE NORMALLY WOULD BE USED ON CONVENTIONAL ROADS OR URBAN STREETS AND ARTERIALS.
- A TYPE BARRICADE CONSISTS OF TWO (2) HORIZONTAL RAILS ON A LIGHT "X" FRAME. TYPE BARRICADES ARE INTENDED FOR USE ON EXPRESSWAYS AND FREEWAYS AND OTHER HIGH-SPEED ROADWAYS.
- TYPE I AND TYPE BARRICADES ARE INTENDED FOR USE WHERE THE HAZARD IS TEMPORARY AND THE ROADWAY IS TO BE CLOSED FOR A SHORT PERIOD OF TIME. TYPE II BARRICADES ARE INTENDED FOR CONTINUOUS DELIMITING OF A RESTRICTED ROADWAY, OR FOR TEMPORARY DAYTIME USE, POSTS, A ROAD SHD, A HEAVY DEMOUNTABLE FRAME OR A HEAVY WINGED "X" FRAME.
- A TYPE BARRICADE CONSISTS OF THREE (3) HORIZONTAL RAILS SUPPORTED BY FIXED POSTS, A ROAD SHD, A HEAVY DEMOUNTABLE FRAME OR A HEAVY WINGED "X" FRAME.
- TYPE BARRICADES ARE INTENDED FOR USE ON CONSTRUCTION AND MAINTENANCE PROJECTS AS BARRICADES AND AT ROAD CLOSURES, WHERE THEY MUST REMAIN IN PLACE FOR EXTENDED PERIODS.
- THE MARKING FOR BARRICADE RAILS SHALL BE ORANGE AND WHITE (SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION TRAFFIC IS TO PASS).
- DO NOT PLACE SANDBAGS OR OTHER DEVICES TO PROVIDE MASS ON THE BOTTOM RAIL THAT WILL BLOCK VIEW OR RAIL FACE.
- FOR ADDITIONAL INFORMATION OR DETAILS, SEE MUTCD, LATEST EDITION.



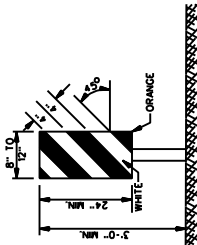
CHEVRON SIGN DETAIL

- A CHEVRON SIGN CONSISTS OF A BLACK CHEVRON TYPE MARKING ON AN ORANGE BACKGROUND AND SHALL POINT IN THE DIRECTION OF TRAFFIC FLOW.
- THE CHEVRON SIGN SHALL BE MOUNTED ON FIXED POST OR ROAD SHD.
- CHEVRON SIGNS MAY BE USED TO SUPPLEMENT OTHER STANDARD DEVICES WHERE ONE OR MORE LANES ARE CLOSED FOR CONSTRUCTION OR MAINTENANCE. THEY SHALL BE PLACED APPROXIMATELY 2'-0" BEHIND THE LANE TRANSITION STRIPE.



TYPE 3 OBJECT MARKER (OM-3R)

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



VERTICAL PANEL

- VERTICAL PANELS CONSIST OF AT LEAST ONE PANEL 8" TO 12" IN WIDTH AND A MINIMUM OF 24" IN HEIGHT.
- THE DIAGONAL STRIPES SHALL SLOPE DOWNWARD IN THE DIRECTION THAT TRAFFIC IS TO PASS THE PANEL. THE STRIPES SHALL BE WHITE ON A BLACK BACKGROUND. THE MINIMUM OF 35" ABOVE THE ROADWAY ON A SINGLE LIGHTMASS POST.
- VERTICAL PANELS USED ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH-SPEED ROADWAYS SHALL HAVE A MINIMUM OF 70" OF RETROREFLECTIVE AREA FACING TRAFFIC.
- FOR TWO-WAY TRAFFIC OPERATIONS, BACK-TO-BACK PANELS SHALL BE USED.

GENERAL NOTES:
 1. MARKINGS ON ALL DEVICES SHOWN ON THIS SHEET SHALL BE HIGH INTENSITY REFLECTIVE SHEETING.
 2. THE TRAFFIC CONTROL PLAN WILL LIST THE VARIOUS TRAFFIC CONTROL DEVICES REQUIRED FOR EACH PROJECT.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 HIGHWAY SIGN AND BARRICADE DETAIL
 FOR CONSTRUCTION PROJECTS

| | |
|----------------|-----------------------|
| WORKING NUMBER | SDTCP-10 |
| SHEET NUMBER | 10 |
| FILE NAME | SDTCP-10_06012012.DGN |
| DESIGN TEAM | DATE: 5/17/2012 |

| STATE MISS. | | PROJECT NO. |
|--|--|-------------|
| <div><div>MOBILE OPERATIONS ON MULTILANE ROAD</div><div></div><div>MOBILE OPERATIONS ON TWO-LANE ROAD</div><div></div></div> <div><div>MOBILE OPERATIONS ON MULTILANE ROAD</div><div><p>NOTES:</p><ol style="list-style-type: none">VEHICLES USED FOR THESE OPERATIONS SHOULD BE MADE HIGHLY VISIBLE WITH APPROPRIATE EQUIPMENT SUCH AS FLASHING LIGHTS, ROTATING BEACONS, FLAGS, SIGNS, OR ARROW PANELS.PROTECTION VEHICLE #1 SHOULD BE EQUIPPED WITH AN ARROW PANEL. AN APPROPRIATE LANE CLOSURE SIGN SHOULD BE PLACED ON PROTECTION VEHICLE #1 SO AS NOT TO OBSCURE THE ARROW PANEL.PROTECTION VEHICLE #2 SHOULD BE EQUIPPED WITH AN ARROW PANEL AND TRUCK-MOUNTED ATTENUATOR (TMA).PROTECTION VEHICLE #1 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, PROTECTION VEHICLE #1 SHOULD BE ELIMINATED.ON HIGH-SPEED ROADWAYS, A THIRD PROTECTION VEHICLE SHOULD BE USED (I.e., VEHICLE #1 ON THE SHOULDER (IF PRACTICAL), VEHICLE #2 IN THE CLOSED LANE, AND VEHICLE #3 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.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.</div></div> <div><div>MOBILE OPERATIONS ON TWO-LANE ROAD</div><div><p>NOTES:</p><ol style="list-style-type: none">WHERE PRACTICAL AND WHEN NEEDED, THE WORK AND PROTECTION VEHICLES SHOULD BE EQUIPPED WITH FLASHING LIGHTS, ROTATING BEACONS, AND/OR LIGHTS. WHEN NOT PRACTICAL, A "DO NOT PASS" SIGN MAY BE PLACED ON THE REAR OF THE VEHICLE BLOCKING THE LANE.THE DISTANCE BETWEEN THE WORK AND PROTECTION VEHICLES MAY VARY ACCORDING TO TERRAIN, PAINT DRYING TIME, AND OTHER FACTORS. PROTECTION VEHICLES ARE USED TO WARN TRAFFIC OF THE OPERATION AHEAD. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE WORK, THE PROTECTION VEHICLE SHOULD BE SLOWED DOWN IN ADVANCE OF THE WORK VEHICLE. THE PROTECTION VEHICLE SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.ADDITIONAL PROTECTION 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 PROTECTION VEHICLE AND MAY BE USED ON THE WORK VEHICLE.THE WORK VEHICLE SHALL BE EQUIPPED WITH BEACONS, AND THE PROTECTION VEHICLES SHOULD BE EQUIPPED WITH FLASHING LIGHTS. WHEN PRACTICAL, PROTECTION VEHICLES SHOULD DISPLAY FLASHING OR ROTATING BEACONS BOTH FORWARD AND TO THE REAR.VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGN LOCATED AT A MINIMUM HEIGHT OF 48" ABOVE THE PAVEMENT. 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.</div></div> | | |

| MISSISSIPPI DEPARTMENT OF TRANSPORTATION | |
|--|-----------------|
| ROADWAY DESIGN DIVISION | |
| STANDARD PLAN | |
| DATE | BY |
| 6-99 | REVISION |
| 22 | REVISED CAPTION |
| S.M.R. | |

TRAFFIC CONTROL PLAN

MOBILE OPERATIONS

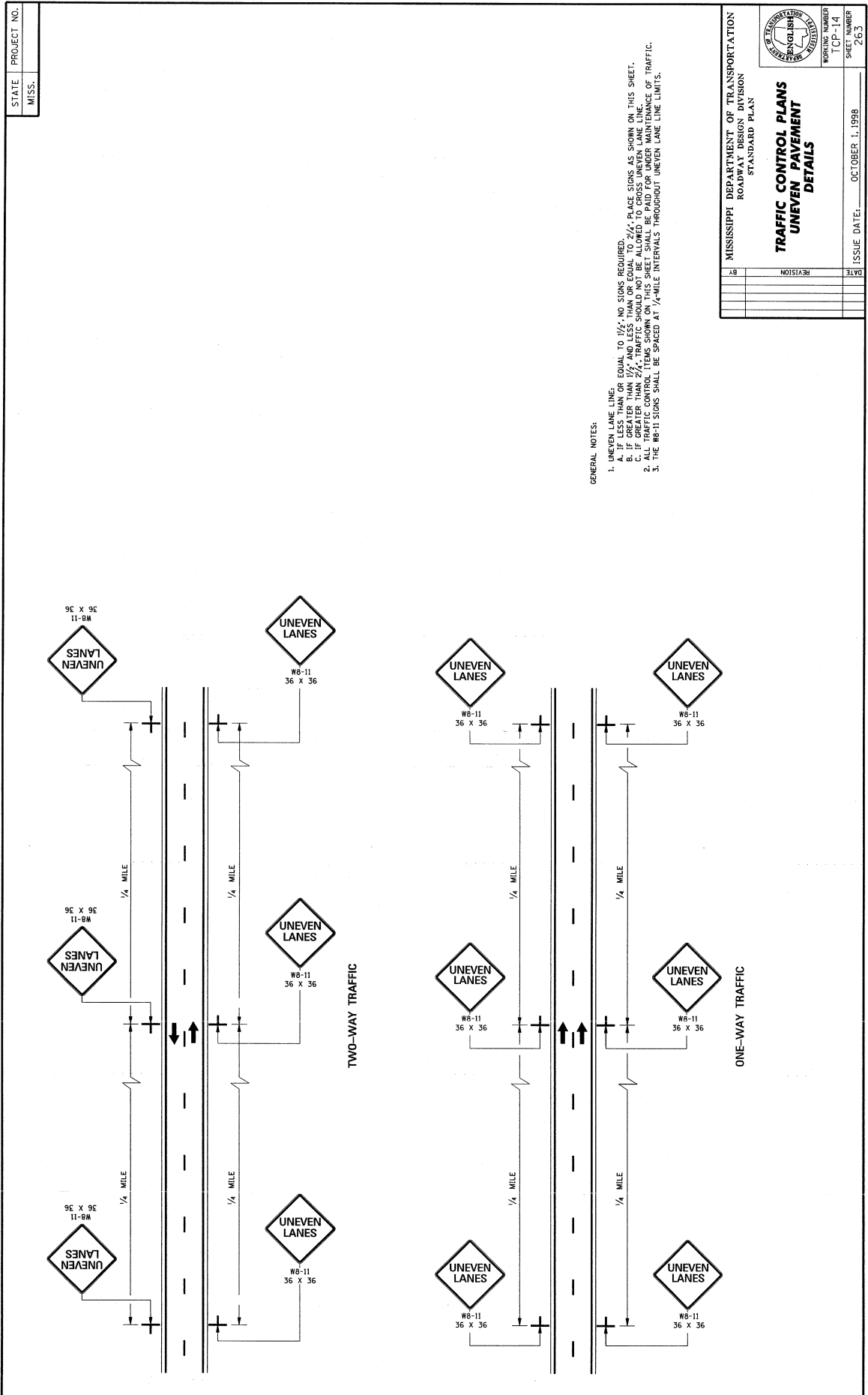
MULTILANE ROADS

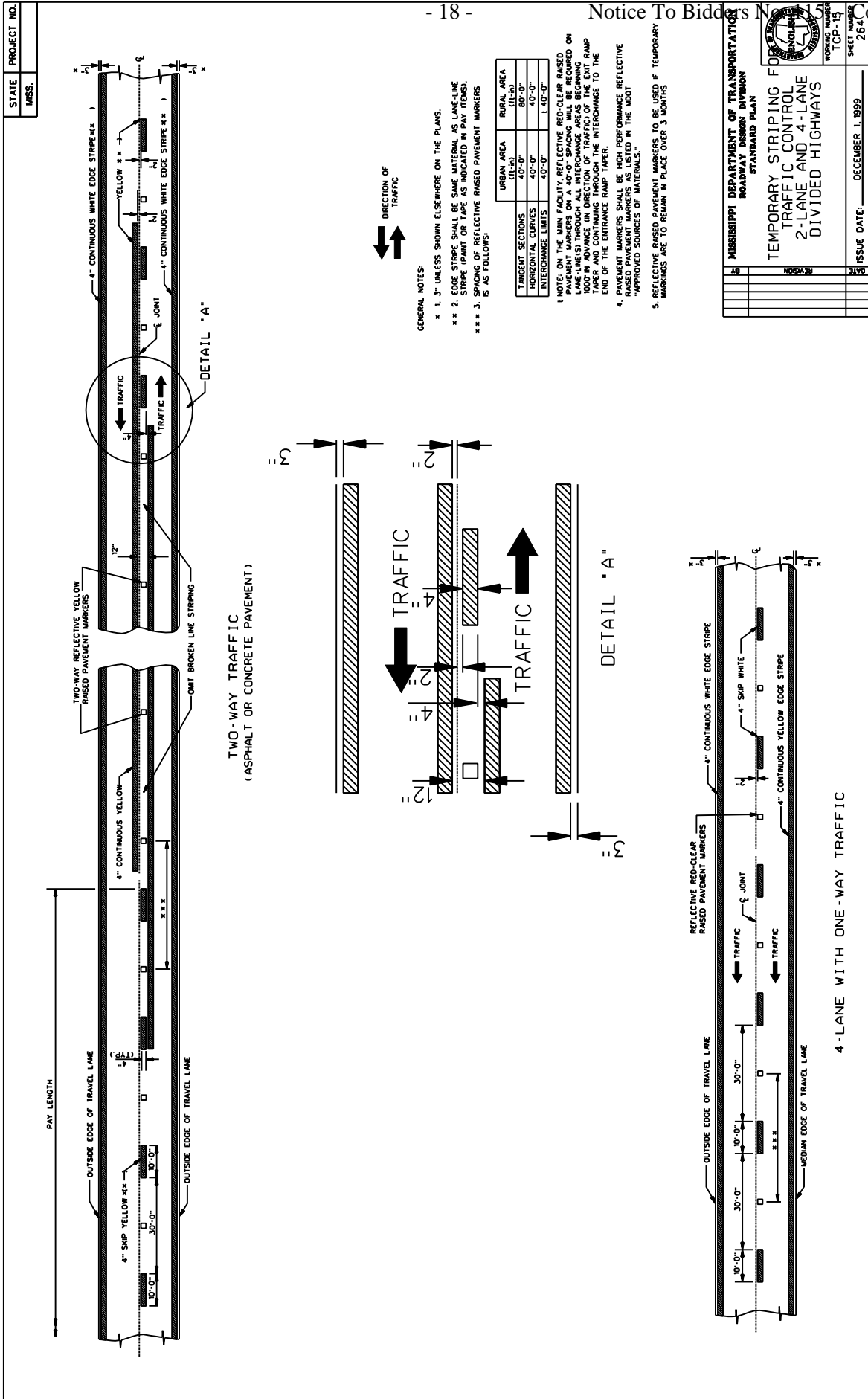
AND

TWO-LANE ROADS

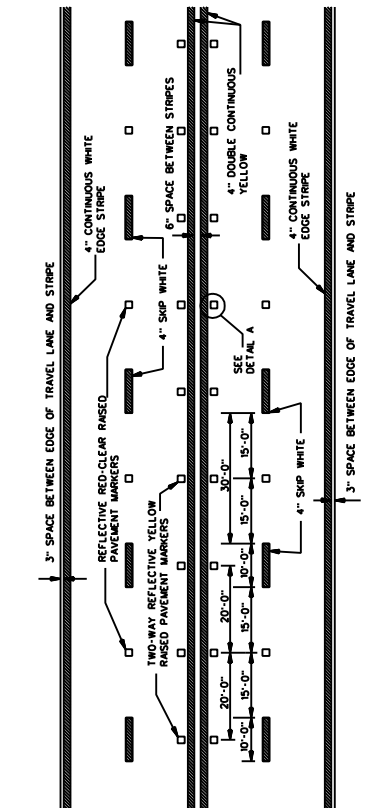
| WORKING NUMBER | SHEET NUMBER | ISSUE DATE |
|----------------|--------------|-----------------|
| 1CP-11 | 260 | OCTOBER 1, 1998 |



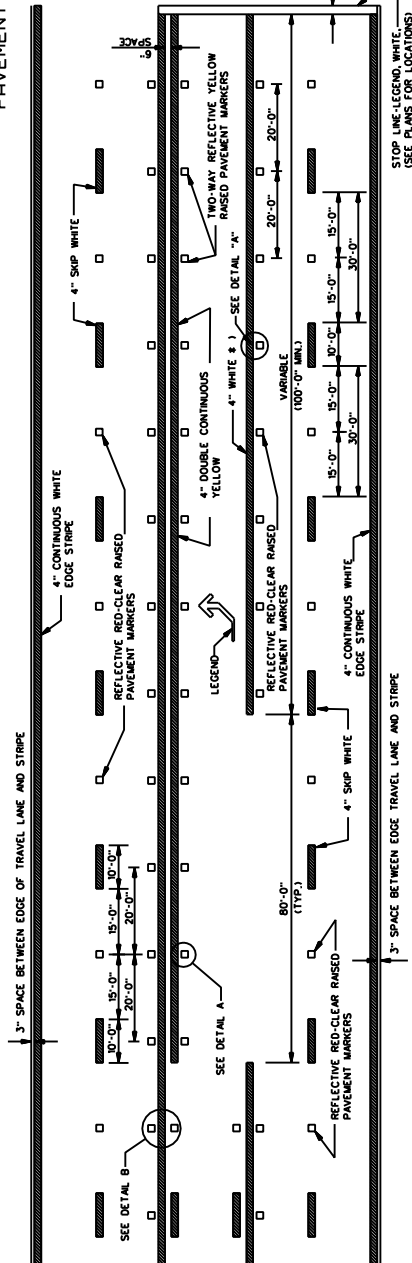




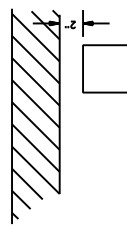
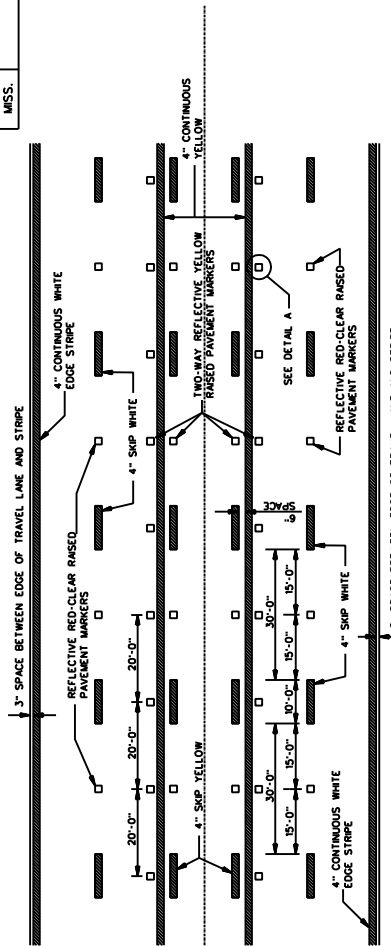
| STATE | PROJECT NO. |
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| MISS. | |



TYPICAL STRIPING AND RAISED PAVEMENT MARKERS FOR 4-LANE SECTION

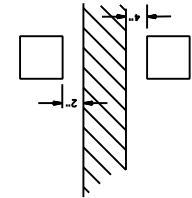


TYPICAL STRIPING AND RAISED PAVEMENT MARKERS FOR 5-LANE SECTION

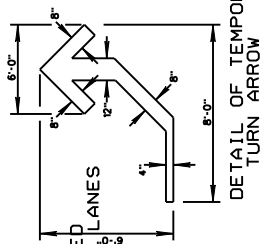


DETAIL A
LATERAL PLACEMENT OF PAVEMENT MARKERS

- GENERAL NOTE:
1. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE RASSED PAVEMENT MARKERS AS LISTED IN THE MOST APPROVED SOURCES OF MATERIALS.
 2. REFLECTIVE RASSED PAVEMENT MARKERS TO BE USED IF TEMPORARY MARKERS ARE TO REMAIN IN PLACE OVER 3 MONTHS.
 3. TEMPORARY TURN ARROW TO BE PAID FOR AS TEMPORARY TRAFFIC STRIPE LEGEND, ESTIMATED AT 10.9 SQ. FT. PER ARROW



DETAIL B
LATERAL PLACEMENT OF PAVEMENT MARKERS



DETAIL OF TEMPORARY TURN ARROW

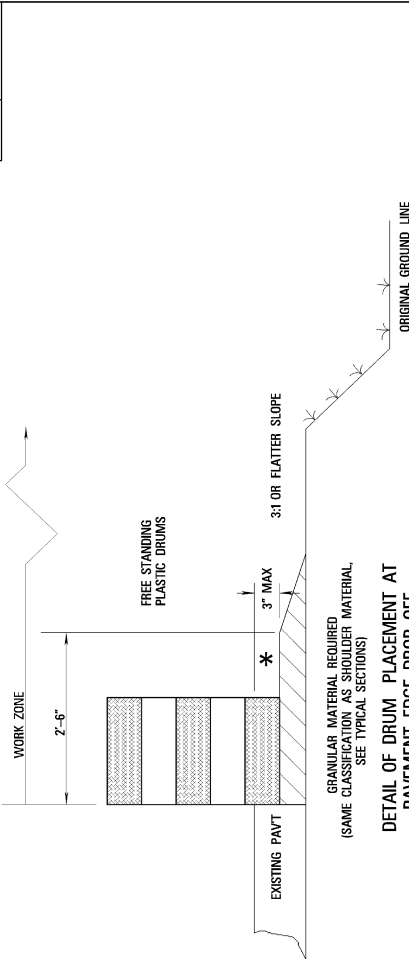
TYPICAL STRIPING AND RAISED PAVEMENT MARKERS AT LEFT TURN LANES

* NOTE: USE DETAIL STRIPING IF LENGTH $\leq 150'$ AT THIS LOCATION OTHERWISE USE CONTINUOUS STRIPING.

TYPICAL TWO-WAY ARROW INSTALLATION

- NOTES:
1. CONSIDER EACH SEGMENT OF CONTINUOUS TWO-WAY LEFT TURN LANE SEPARATELY.
 2. IF SEGMENT IS LESS THAN 350', PLACE ONE SET OF ARROWS IN CENTER OF SEGMENT.
 3. IF SEGMENT IS GREATER THAN 350', PLACE FIRST SET OF ARROWS 50 TO 100' FROM BEGINNING AND/OR END OF SEGMENT AND SPACE ADDITIONAL SETS OF ARROWS (250 O.C.).

| MISSISSIPPI DEPARTMENT OF TRANSPORTATION | |
|--|------------------|
| ROADWAY DESIGN DIVISION | |
| STANDARD PLAN | |
| TEMPORARY STRIPING FOR TRAFFIC CONTROL | |
| 4-LANE AND 5-LANE UNDIVIDED ROADWAYS | |
| AS | NO. 30 |
| ISSUE DATE: | DECEMBER 1, 1999 |
| WORKING NUMBER | TCP-16 |
| SHEET NUMBER | 265 |



NOTES

* A. PAVEMENT EDGE DROP-OFF

1. IF LESS THAN TWO AND ONE QUARTER (2.25) INCHES-NO PROTECTION REQUIRED. PLACE A SHOULDER WORK SIGN (W21-5) 500 FEET IN ADVANCE OF WORK ZONE SHOULDER AND A LOW SHOULDER SIGN (W8-3) AT THE BEGINNING AND THROUGHOUT THE WORK ZONE @ (750 ± 0.0).
2. TWO AND ONE QUARTER TO THREE INCHES-PLACE DRUMS, VERTICAL PANELS OR BARRICADES EVERY 100 FEET ON TANGENT SECTIONS FOR SPEEDS OF 50 MILES PER HOUR OR GREATER. CONES MAY BE USED IN PLACE OF DRUMS, PANELS AND BARRICADES DURING DAYLIGHT HOURS. FOR TANGENT SECTIONS WITH SPEEDS LESS THAN 50 MILES PER HOUR AND FOR CURVES, DEVICES SHOULD BE PLACED EVERY 50 FEET. SPACING FOR TAPERS SHOULD BE IN ACCORDANCE WITH THE M.U.T.C.D. (1/3 L, WHERE L IS THE TAPER LENGTH IN FEET)
3. GREATER THAN THREE (3) INCHES-POSITIVE SEPARATION OR WEDGE WITH 3:1 OR FLATTER SLOPE NEEDED. IF THERE IS EIGHT (8) FEET OR MORE DISTANCE BETWEEN THE EDGE OF TRAVEL LANE AND DROP-OFF, THEN DRUMS, PANELS OR BARRICADES MAY BE USED. IF CONCRETE BARRIERS ARE USED, SPECIAL REFLECTIVE DEVICES OR STEADY BURN LIGHTS SHOULD BE USED FOR OVERNIGHT INSTALLATIONS.
4. FOR TEMPORARY CONDITIONS, DROP-OFFS GREATER THAN THREE (3) INCHES MAY BE PROTECTED WITH DRUMS, VERTICAL PANELS OR BARRICADES FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS BEING DONE IN THE DROP-OFF AREA.
5. LESSER TREATMENTS THAN THOSE DESCRIBED ABOVE MAY BE CONSIDERED FOR LOW-VOLUME LOCAL STREETS.

B. DRUM SPACING

1. TANGENTS = $2 \times S$
2. BARRIERS = $L/3$
WHERE $L = S \times W$
 L = TAPER LENGTH IN FEET
 S = SPEED IN MPH (POSTED OR 85 PERCENTILE)
 W = WIDTH OF OFFSET IN FEET

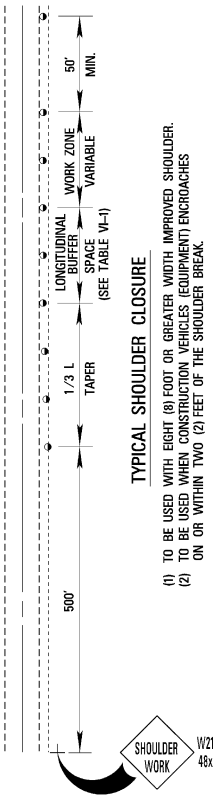
C. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER MAINTENANCE OF TRAFFIC.

TABLE VI-1 GUIDELINES FOR LENGTH OF LONGITUDINAL BUFFER SPACE

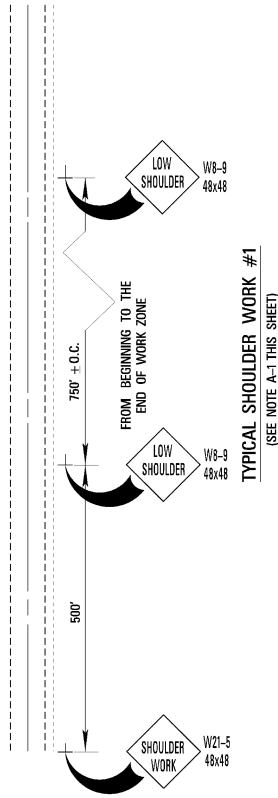
| SPEED - MPH | MIN | LENGTH (FEET) | MAX |
|-------------|-----|---------------|-----|
| 20 | 25 | 35 | |
| 25 | 35 | 55 | |
| 30 | 45 | 75 | |
| 35 | 55 | 100 | |
| 40 | 65 | 120 | |
| 45 | 75 | 140 | |
| 50 | 85 | 160 | |
| 55 | 95 | 180 | |
| 60 | 105 | 200 | |
| 65 | 115 | 220 | |
| 70 | 125 | 240 | |
| 75 | 135 | 260 | |
| 80 | 145 | 280 | |
| 85 | 155 | 300 | |

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

PLASTIC DRUMS
(SEE NOTE FOR SPACING)

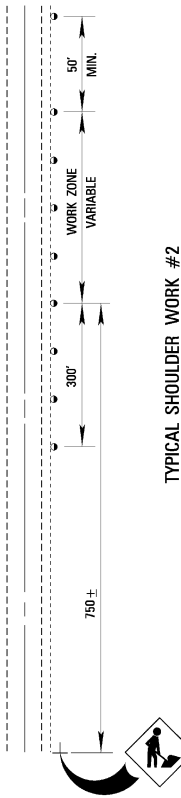


- (1) TO BE USED WITH EIGHT (8) FOOT OR GREATER WIDTH IMPROVED SHOULDER.
- (2) TO BE USED WHEN CONSTRUCTION VEHICLES (EQUIPMENT) ENCRUSCHES ON OR WITHIN TWO (2) FEET OF THE SHOULDER BREAK.



TYPICAL SHOULDER WORK #1
(SEE NOTE A-1 THIS SHEET)

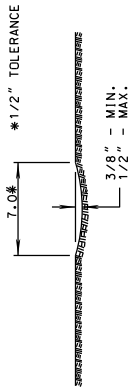
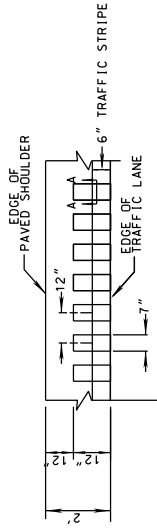
PLASTIC DRUMS
(SEE NOTE FOR SPACING)



TYPICAL SHOULDER WORK #2

NOTE: WORK OUTSIDE THE (2) FOOT LIMIT AND WITHIN TEN (10) FEET OF THE SHOULDER BREAK MAY BE PROTECTED BY PLACING DRUMS ALONG THE SHOULDER EDGE, 300 FEET PRIOR TO AND 50 FEET BEYOND THE WORK AREA OR SEE NOTE A-3 THIS SHEET.

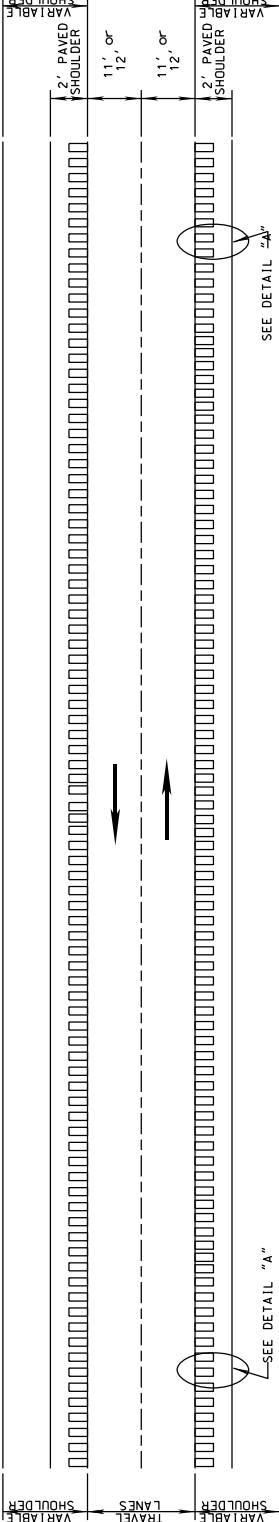
| | |
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| STATE | PROJECT NO. |
| MISS. | |



SECTION "A-A"

DETAIL "A"

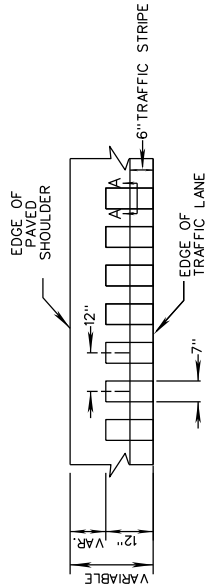
- GENERAL NOTES
1. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED ON LEFT AND RIGHT SHOULDERS OF ALL PAVED SHOULDERS ON THIS PROJECT
 2. GROUND-IN RUMBLE STRIPES SHALL BE OMITTED ACROSS PRINCIPAL INTERSECTING ROADWAYS OR OTHER INTERRUPTIONS IN NORMAL SHOULDER WIDTH AS DIRECTED BY THE ENGINEER
 3. COST TO BE PAID FOR USING APPROPRIATE PAY ITEMS
 4. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO MAINLINE ONLY.
 5. DO NOT USE WHERE TRAVEL LANE IS LESS THAN 11' WIDE.



PLAN
NOT TO SCALE

| | |
|--|---------------|
| MISSISSIPPI DEPARTMENT OF TRANSPORTATION | |
| RUMBLE STRIPES | |
| 2-LANE HIGHWAYS | |
| (ASPH. LANES, | |
| 2-FT ASPH. SHLD) | |
| PROJECT NO: | |
| COUNTY: | |
| WORKING NUMBER | SHEET NUMBER |
| CRS-1 | CRS-1 |
| FILE NAME: | DATE 05/01/14 |
| DESIGN TEAM | S. KERRICKS |
| CHECKED | |

| | |
|-------|-------------|
| STATE | PROJECT NO. |
| MISS. | |

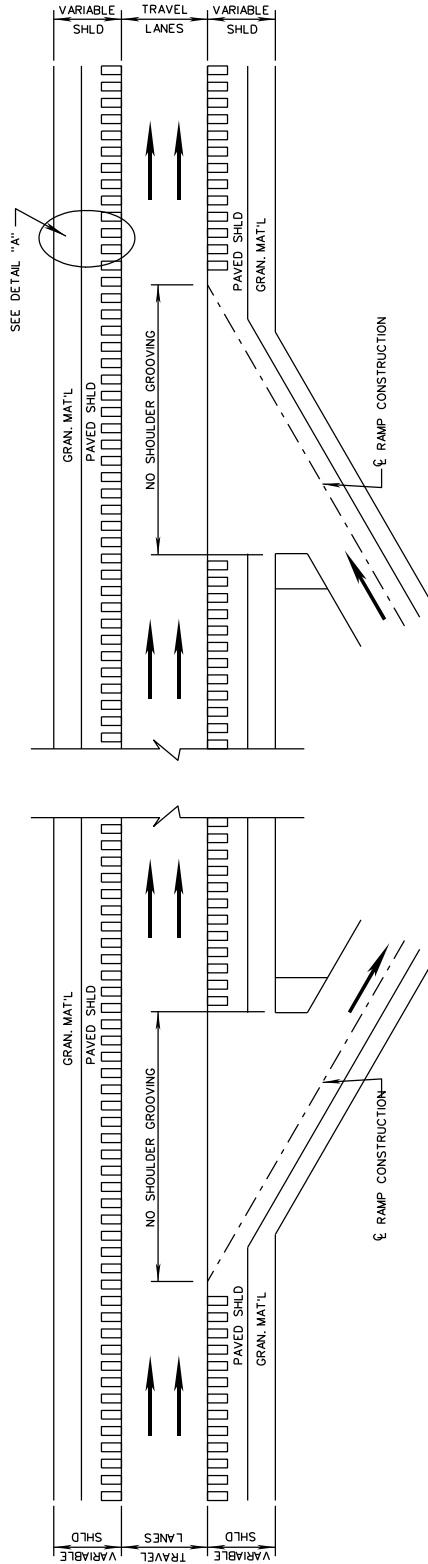


SECTION "A-A"

GENERAL NOTES

1. ALL RUMBLE STRIPES SHALL BE GROUND-IN RUMBLE STRIPES. RUMBLE STRIPES SHALL BE OMITTED ACROSS PRINCIPAL INTERSECTING ROADWAYS OR OTHER INTERRUPTIONS IN NORMAL SHOULDER WIDTH AS DIRECTED BY THE ENGINEER.
2. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO MAINLINE ONLY.

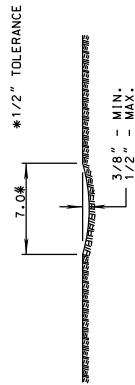
DETAIL "A"



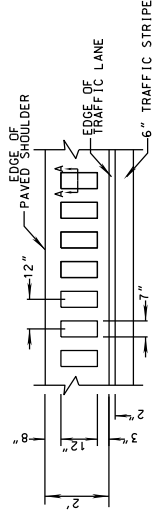
PLAN
NOT TO SCALE
DETAILS OF
RUMBLE STRIPS

| | |
|--|----------|
| MISSISSIPPI DEPARTMENT OF TRANSPORTATION | |
| RUMBLE STRIPES | |
| 4-LANE HIGHWAYS | |
| (ASPH. LANES • 2-FT ASPH. SHLD) | |
| PROJECT NO: | 002 |
| COUNTY: | CO. |
| FILE NAME: | 05/07/14 |
| DATE: | 05/07/14 |
| CHECKED: | |
| DESIGN TEAM: | |

| | |
|-------|-------------|
| STATE | PROJECT NO. |
| MSS. | |



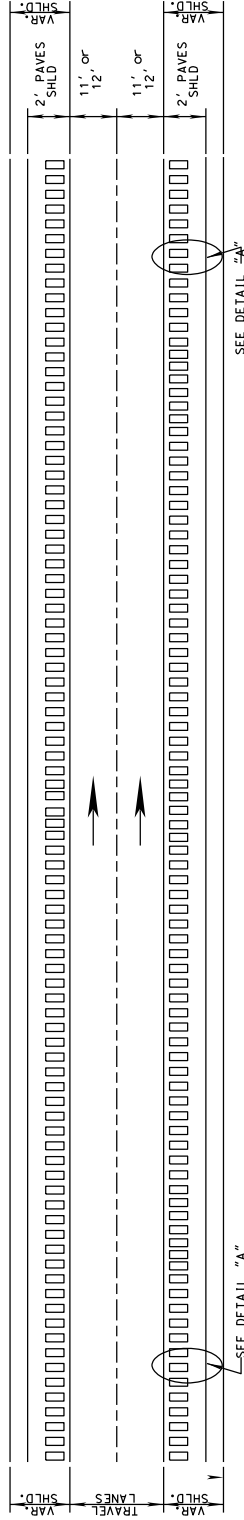
SECTION "A-A"



DETAIL "A"

GENERAL NOTES

1. GROUND-IN RUMBLE STRIPS SHALL BE APPLIED ON LEFT AND RIGHT SHOULDERS OF ALL PAVED SHOULDERS ON THIS PROJECT
2. GROUND-IN RUMBLE STRIPS SHALL BE OMITTED ACROSS PRINCIPAL INTERSECTING ROADWAYS OR OTHER INTERRUPTIONS IN NORMAL SHOULDER WIDTH AS DIRECTED BY THE ENGINEER
3. COST TO BE PAID FOR USING APPROPRIATE PAY ITEMS
4. GROUND-IN RUMBLE STRIPS SHALL BE APPLIED TO MAINLINE ONLY.
5. DO NOT USE WHERE TRAVEL LANE IS LESS THAN 11' WIDE.



PLAN
NOT TO SCALE

| | |
|--|---------------|
| MISSISSIPPI DEPARTMENT OF TRANSPORTATION | |
| RUMBLE STRIPS | |
| FOR 4-LANE DIVIDED | |
| ROADWAYS WITH | |
| 2-FOOT PAVED SHOULDERS | |
| CONCRETE LANES, ASPH. SHOULDER | |
| PROJECT NO. : | |
| COUNTY : | |
| WORKING NUMBER | RS-6 |
| SHEET NUMBER | 15 |
| FILE NAME: \rs\rumblestrips.dwg | DATE 05/01/14 |
| DESIGN TEAM | S. L. LARSEN |
| CHECKED | |

PROJECTS RUMBLE STRIPS RUMBLE STRIPS P. DON

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 291

CODE: (SP)

DATE: 07/24/2017

SUBJECT: Contract Time

PROJECT: MP-2310-36(001) / 306035301 - Lafayette County

The completion of work to be performed by the Contractor for this project will not be a specified date but shall be when all allowable working days are assessed, or any extension thereto as provided in Subsection 907-108.06. It is anticipated that the Notice of Award will be issued no later than be **September 12, 2017** and the effective date of the Notice to Proceed / Beginning of Contract Time will be **March 1, 2018**.

Should the Contractor request a Notice to Proceed earlier than **March 1, 2018** and it is agreeable with the Department for an early Notice to Proceed, the requested date will become the new Notice to Proceed date.

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 292

CODE: (SP)

DATE: 7/24/2017

SUBJECT: Scope of Work

PROJECT: MP-2310-36(001) / 306035301 – Lafayette County

The contract documents do not include an official set of construction plans but may, by reference; include some Standard Drawings when so specified in a Notice to Bidders entitled, “Standard Drawings”. All other references to plans in the contract documents and Standard Specifications for Road and Bridge Construction are to be disregarded.

The work to be accomplished using the pay items and corresponding specifications set forth in this contract, which is for the overlaying of Highway No.310, beginning at the Panola County Line and going easterly for 8.6 miles to the Marshall County Line in Lafayette County.

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

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

At bridge ends and at the end of work day, a taper of one (1) vertical inch for each three (3) horizontal foot shall be provided.

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

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

The work shall consist of the following:

1. Repair failed areas using the following:
 - 202-B, Removal of Asphalt Pavement, All Depths - for pavement structure
 - 203-G, Excess Excavation – for material below the pavement structure
 - 403-A, 19-mm, ST, Asphalt Pavement

- 304-F, Crushed Stone

NOTE: Failed areas are estimated as one (1) foot of excavation and backfilled with six (6) inches of crushed stone and six (6) inches of 19-mm, ST, Asphalt.

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

| Station | Side | Length | Width | Area (SY) |
|---------|------|--------|-------|-----------|
| 407+75 | RT | 50 | 5.5 | 30.6 |
| 310+50 | RT | 100 | 11 | 122.2 |
| 310+50 | LT | 100 | 11 | 122.2 |
| 309+90 | RT | 30 | 11 | 36.7 |
| 309+00 | LT | 50 | 5.5 | 30.6 |
| 306+60 | RT | 50 | 11 | 61.1 |
| 305+40 | LT | 50 | 5.5 | 30.6 |
| 279+00 | LT | 40 | 11 | 48.9 |
| 188+00 | LT | 100 | 5 | 55.6 |
| 188+00 | RT | 70 | 11 | 85.6 |
| 186+00 | LT | 290 | 5.5 | 177.2 |
| 181+00 | RT | 330 | 5.5 | 201.7 |
| 156+00 | LT | 80 | 5.5 | 48.9 |
| 152+10 | RT | 235 | 5.5 | 143.6 |
| 151+90 | LT | 210 | 5.5 | 128.3 |
| 149+75 | RT | 225 | 11 | 275.0 |
| 149+80 | LT | 170 | 11 | 207.8 |
| 147+20 | LT | 50 | 5.5 | 30.6 |
| 146+00 | RT | 40 | 11 | 48.9 |
| 147+60 | LT | 160 | 11 | 195.6 |
| 145+00 | RT | 100 | 5.5 | 61.1 |
| 142+00 | LT | 20 | 5.5 | 12.2 |
| 143+00 | RT | 50 | 5.5 | 30.6 |
| 144+00 | RT | 330 | 5.5 | 201.7 |
| 139+00 | LT | 50 | 5.5 | 30.6 |
| 138+10 | RT | 170 | 11 | 207.8 |
| 137+80 | LT | 140 | 11 | 171.1 |
| 134+55 | RT | 65 | 5.5 | 39.7 |
| 133+90 | RT | 53 | 11 | 64.8 |
| 133+65 | RT | 265 | 11 | 323.9 |
| 127+85 | LT | 60 | 5.5 | 36.7 |
| 127+10 | LT | 120 | 5.5 | 73.3 |
| 125+65 | LT | 130 | 5.5 | 79.4 |
| 121+75 | RT | 60 | 5.5 | 36.7 |
| 121+07 | RT | 68 | 5.5 | 41.6 |
| 85+95 | RT | 10 | 5.5 | 6.1 |

| | | | | |
|-------|----|-----|-----|--------|
| 87+25 | LT | 50 | 5.5 | 30.6 |
| 86+08 | RT | 34 | 5.5 | 20.8 |
| 81+25 | RT | 100 | 5.5 | 61.1 |
| 79+42 | RT | 20 | 5.5 | 12.2 |
| 76+85 | RT | 40 | 5.5 | 24.4 |
| 85+20 | LT | 45 | 5.5 | 27.5 |
| 55+50 | LT | 20 | 5.5 | 12.2 |
| 55+15 | LT | 35 | 5.5 | 21.4 |
| 54+80 | LT | 40 | 5.5 | 24.4 |
| | | | | |
| Total | | | | 3733.2 |

2. Cold milling of the existing asphalt pavement at the tie-ins, local roads and at bridge ends to a depth of one and one-half (1½) inches and variable in order to provide a smooth-transition will be required. The entire section shall not be milled. The cold milling material obtained shall become the property of the Contractor.

| Area | Cold Milling of Bituminous Pavement (SY) |
|-------------|--|
| Mainline | 250 |
| Bridge Ends | 750 |
| Local Roads | 2,325 |
| | |
| Total | 3,325 |

3. Payment for Cold Milling of Pavement will be made under Pay Item No. 406-A, per square yard, and shall include all cost associated with the milling operation.

NOTE: During this operation and prior to placement of the asphalt, due care shall be required to keep surface water from ponding on the roadway surface; continuous monitoring of the project may be required.

4. Excavate three (3) inches deep and two (2) feet wide at the pavement edges for trench widening. The finished pavement width shall be twenty-six (26) feet wide. The remaining shoulder width will require placement of granular material.

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

NOTE: Any material removed from the excavation operation of trench widening that cannot be reasonably used as part of the final shoulder shall be removed; and this material shall be moved simultaneous with the trench widening operation. Neither shall this material be allowed to remain rolled up on the existing shoulder or bladed down the

existing slope. There will be no separate payment for this work which shall be included in the pay items provided.

NOTE: The trench widening excavation may include the removal of some asphalt along the shoulder due to previous maintenance repairs. There will be no separate payment for this work which shall be included in the pay items provided.

5. Placement of three (3) inches of trench widening (19-mm, ST, Trench Widening) in the previous excavation.
6. Placement of three quarters (3/4) inches and variable leveling asphalt (9.5-mm, ST, Leveling) to establish a uniform cross section and an acceptable centerline profile and for curve correction.
7. Placement of one and one-half (1½) inches of surface course (9.5-mm, ST) on pavement previously leveled.

| Area | Quantity (tons) |
|-----------------|--------------------|
| Mainline | 11,400 |
| Local Roads | 800 |
| Pads | 1,700 |
| Guard Rail Pads | 535 |
| | |
| Total | 14,435 |

8. Placement of granular material on the shoulders as directed to raise the existing shoulders to the new surface course grade.

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

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

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

9. Placement of Temporary Traffic Stripe daily as per Section 618 of the Mississippi Standard Specifications for Road and Bridge Construction.
10. Install rumble strips for rumble stripe.

11. Place permanent pavement markings as required (Thermoplastic Striping, and Two-way yellow Reflective High Performance Raised Markers). Placement of a six (6) inch thermoplastic stripe on the inside six (6) inches of the rumble stripe using an atomization method to create a "rumble strip. Thermoplastic Double Drop stripe shall be required on all bridge decks.
12. Replace guard rail, bridge end sections, terminal sections, steel block outs and delineators on bridges:

| BR # | Guardrail Removal | Guardrail Installation | Terminal Section | Bridge Section (Type I) | Block Outs | Delineators | Object Marker |
|-------|-------------------|------------------------|------------------|-------------------------|------------|-------------|---------------|
| 48.2 | | | 4 | | 85 | | |
| 45.6 | | | 4 | | 85 | | |
| 52.9 | 510.0 | 510.0 | 4 | 4 | | 22 | 4 |
| | | | | | | | |
| Total | 510.0 | 510.0 | 12 | 4 | 170 | 22 | 4 |

NOTE: Removal of guard rail will be paid under Pay Item No. 202-B150 and shall include the removal of guard rail, post, terminal sections, bridge end sections and cable anchors.

County roads and/or city streets are to be paved and/or milled to the right-of-way line. County roads and/or city streets are to be restriped.

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

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

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

PLAN VIEW OF RAMP

The diagram shows a plan view of a ramp. A dashed line represents the centerline of the road, labeled 'ROAD'. The ramp is shown as a solid line extending from the road. The ramp is labeled 'RAMP'.

DETAIL OF PAVED APRON

The diagram shows a detail of a paved apron. It features a shoulder edge labeled 'SHOULDER EDGE' and a width dimension labeled 'WIDTH'. The apron is shown with a 30-degree angle, labeled '30°'. The apron is labeled '1'.

① 1-42" & VARIABLE DEPTH ASPHALT PAVEMENT REQUIRED

| | |
|--|------------|
| MISSISSIPPI DEPARTMENT OF TRANSPORTATION | |
| MISCELLANEOUS DETAIL | |
| PROJECT NO. | DATE |
| STATE | FILE NAME |
| MISS. | EXTN. YEAR |
| | DATE |

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

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

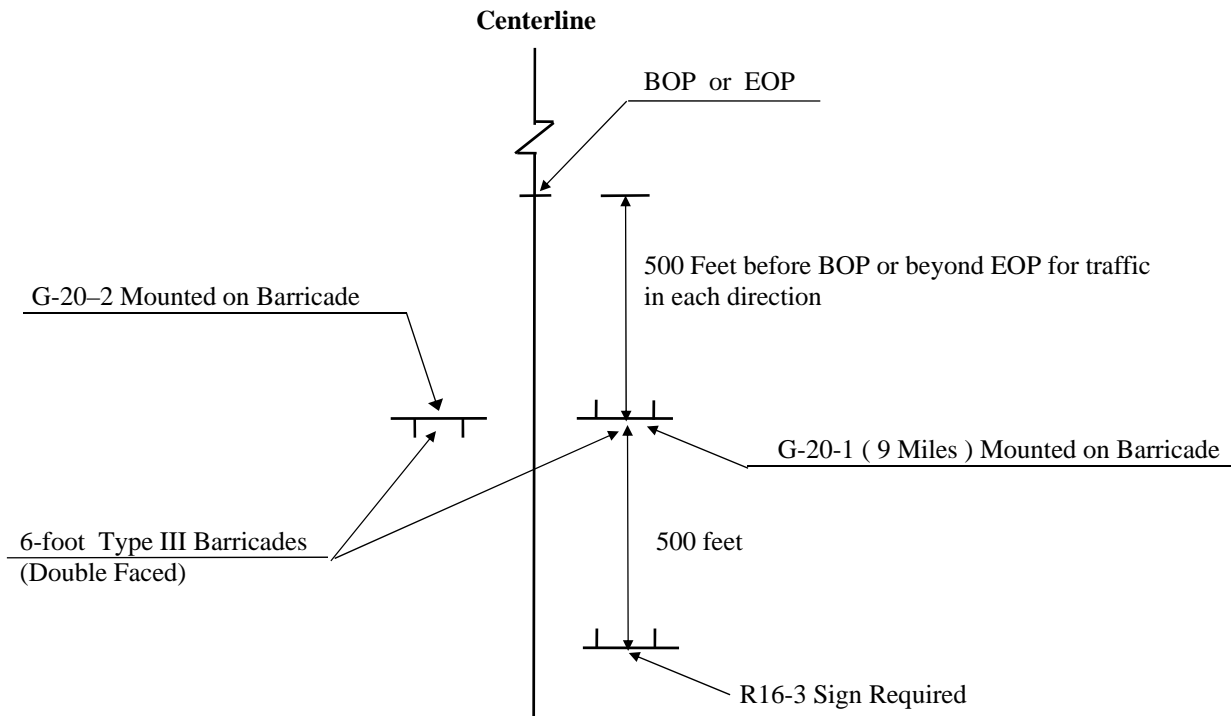
SUPPLEMENT TO SPECIAL PROVISION NO. 907-618-3

DATE: 07/24/2017

PROJECT: MP-2310-36(001) / 306035301 – Lafayette County

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

Additional signs will be required as follows.



ADDITIONAL TRAFFIC CONTROL SIGNS REQUIRED:

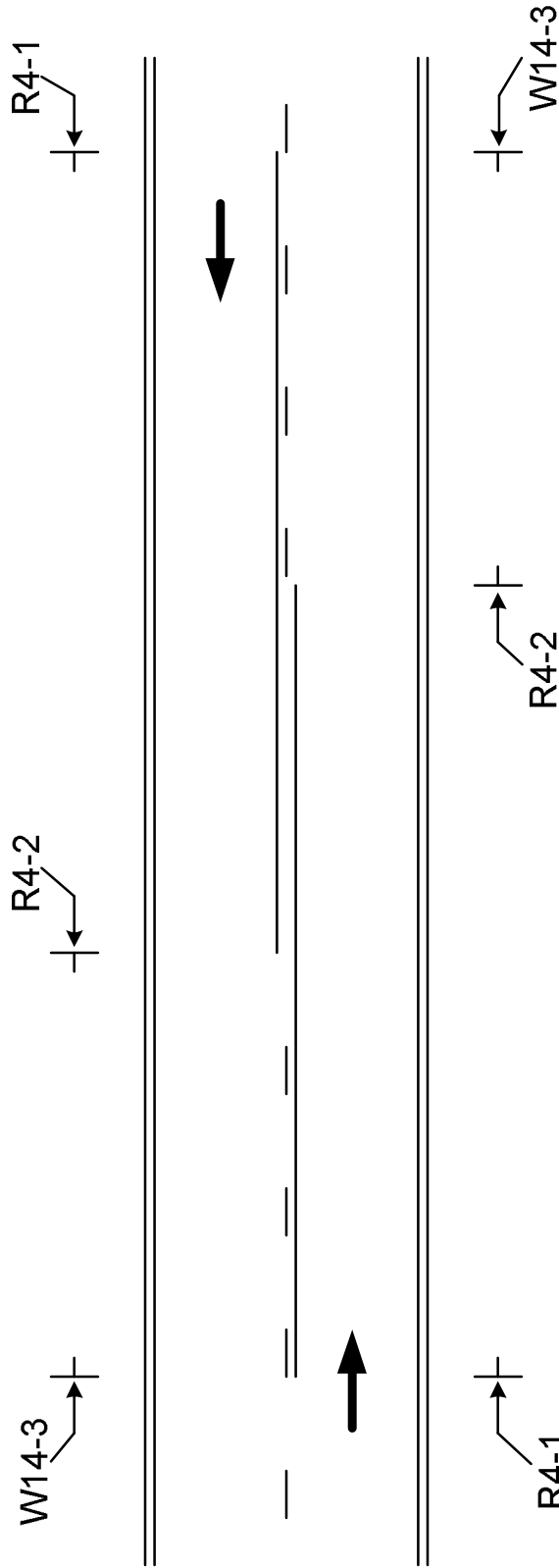
- 21 - W20-1 "AHEAD" signs required. One (1) W20-1 "AHEAD" sign is required at each local road or street entering the project.
- 14 - R4-1 "DO NOT PASS" signs required.
- 14 - R4-2 "PASS WITH CARE" signs required.
- 14 - W14-3 "NO PASSING ZONE" signs required.
- 10 - R16-3 "SPEEDING FINES DOUBLED" signs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

R4-1 "DO NOT PASS", R4-2 "PASS WITH CARE", and W14-3 "NO PASSING ZONE" signs are required in accordance with Subsection 618.03.3, this drawing, and as specified in the Manual on Uniform Traffic Control Devices. If no passing zones are 1,000 feet or more, additional "DO NOT PASS" signs shall be installed.

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

All Construction signing is included in the bid for Pay Item 907-618-A, Maintenance of Traffic. Fluorescent orange sheeting shall be used on all construction and traffic control signs except for R16-3, R4-1 and R4-2 signs which shall be black legend and border on white background.

48



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

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-618-3

CODE: (SP)

DATE: 01/17/2017

SUBJECT: Additional Signing Requirements

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

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

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

SECTION 905 - PROPOSAL

Date _____

Mississippi Transportation Commission
Jackson, Mississippi

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

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

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

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

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

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

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

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

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

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

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

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

SECTION 905 -- PROPOSAL (CONTINUED)

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

Respectfully Submitted,

DATE _____

Contractor

BY _____
Signature

TITLE _____

ADDRESS _____

CITY, STATE, ZIP _____

PHONE _____

FAX _____

E-MAIL _____

(To be filled in if a corporation)

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

President

Address

Secretary

Address

Treasurer

Address

The following is my (our) itemized proposal.

Mill & Overlay SR 310 from Panola County Line to Marshall County Line, known as State Project No. MP-2310-36(001) / 306035301 in Lafayette County.

| Line no. | Item Code | Adj Code | Quantity | Units | Description[Fixed Unit Price] |
|----------------------|-----------|----------|----------|-------------|--|
| Roadway Items | | | | | |
| 0010 | 202-B007 | | 3,733 | Square Yard | Removal of Asphalt Pavement, All Depths |
| 0020 | 202-B150 | | 510 | Linear Feet | Removal of Guard Rail Including Post, Blockouts & Hardware |
| 0030 | 202-B240 | | 2,750 | Linear Feet | Removal of Traffic Stripe |
| 0040 | 203-G001 | (E) | 1,244 | Cubic Yard | Excess Excavation, FM, AH |
| 0050 | 304-B002 | (GT) | 4,600 | Ton | Granular Material, Class 3, Group D |
| 0060 | 403-A006 | (BA1) | 1,300 | Ton | 19-mm, ST, Asphalt Pavement |
| 0070 | 403-A015 | (BA1) | 14,435 | Ton | 9.5-mm, ST, Asphalt Pavement |
| 0080 | 403-B012 | (BA1) | 885 | Ton | 9.5-mm, ST, Asphalt Pavement, Leveling |
| 0090 | 403-C003 | (BA1) | 3,350 | Ton | 19-mm, ST, Asphalt Pavement, Trench Widening |
| 0100 | 406-A001 | | 3,325 | Ton | Cold Milling of Bituminous Pavement, All Depths |
| 0110 | 407-A001 | (A2) | 15,650 | Gallon | Asphalt for Tack Coat |
| 0120 | 423-A001 | | 17 | Mile | Rumble Strips, Ground In |
| 0130 | 606-B001 | | 510 | Linear Feet | Guard Rail, Class A, Type 1 |
| 0140 | 606-D023 | | 4 | Each | Guard Rail, Bridge End Section, Type I, Metal Post |
| 0150 | 606-E001 | | 12 | Each | Guard Rail, Terminal End Section |
| 0160 | 606-F003 | | 170 | Each | Guard Rail, Replace Metal Blockout |
| 0170 | 618-A001 | | 1 | Lump Sum | Maintenance of Traffic |
| 0180 | 618-B001 | | 1 | Square Feet | Additional Construction Signs (\$10.00) |
| 0190 | 619-A1001 | | 17 | Mile | Temporary Traffic Stripe, Continuous White |
| 0200 | 619-A2001 | | 10 | Mile | Temporary Traffic Stripe, Continuous Yellow |
| 0210 | 619-A4002 | | 5 | Mile | Temporary Traffic Stripe, Skip Yellow |
| 0220 | 619-A5001 | | 11,750 | Linear Feet | Temporary Traffic Stripe, Detail |
| 0230 | 619-A6002 | | 3,930 | Linear Feet | Temporary Traffic Stripe, Legend |
| 0240 | 620-A001 | | 1 | Lump Sum | Mobilization |
| 0250 | 626-C001 | | 1,696 | Linear Feet | 6" Thermoplastic Double Drop Edge Stripe, Continuous White |
| 0260 | 626-C004 | | 17 | Mile | 6" Thermoplastic Edge Stripe, Continuous White |
| 0270 | 626-D002 | | 646 | Linear Feet | 6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow |
| 0280 | 626-D003 | | 5 | Mile | 6" Thermoplastic Traffic Stripe, Skip Yellow |
| 0290 | 626-E002 | | 404 | Linear Feet | 6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow |
| 0300 | 626-E004 | | 10 | Mile | 6" Thermoplastic Traffic Stripe, Continuous Yellow |
| 0310 | 626-G002 | | 7,500 | Linear Feet | Thermoplastic Detail Stripe, White |
| 0320 | 626-G003 | | 4,250 | Linear Feet | Thermoplastic Detail Stripe, Yellow |
| 0330 | 626-H005 | | 3,930 | Linear Feet | Thermoplastic Legend, White |
| 0340 | 627-L001 | | 1,140 | Each | Two-Way Yellow Reflective High Performance Raised Markers |

| Line no. | Item Code | Adj Code | Quantity | Units | Description[Fixed Unit Price] |
|------------------------------------|-----------|----------|----------|-------|---|
| 0350 | 630-F006 | | 22 | Each | Delineators, Guard Rail, White |
| 0360 | 630-G005 | | 4 | Each | Type 3 Object Markers, OM-3R or OM-3L, Post Mounted |
| ALTERNATE GROUP AA NUMBER 1 | | | | | |
| 0370 | 304-F001 | (GT) | 1,200 | Ton | 3/4" and Down Crushed Stone Base |
| ALTERNATE GROUP AA NUMBER 2 | | | | | |
| 0380 | 304-F002 | (GT) | 1,200 | Ton | Size 610 Crushed Stone Base |
| ALTERNATE GROUP AA NUMBER 3 | | | | | |
| 0390 | 304-F003 | (GT) | 1,200 | Ton | Size 825B Crushed Stone Base |

SECTION 905 - COMBINATION BID PROPOSAL (Continued)

CONDITIONS FOR COMBINATION BID

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

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

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

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

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

COMBINATION BID PROPOSAL

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

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

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

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

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

SECTION 905 - COMBINATION BID PROPOSAL (Continued)

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

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-2310-36(001)/ 306035301000**

in **Lafayette** _____ 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-2310-36(001)/ 306035301000

LOCATED IN THE COUNTY(IES) OF Lafayette

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. _____.

Revised 8/06/2003

SECTION 903
PERFORMANCE AND PAYMENT BOND

CONTRACT BOND FOR: MP-2310-36(001)/ 306035301000

LOCATED IN THE COUNTY(IES) OF: Lafayette

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 **Mill & Overlay SR 310 from Panola County Line to Marshall County Line, known as State Project No. MP-2310-36(001) / 306035301 in Lafayette 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____

(Witness)

(Witness)

(Principal) (Seal)

By: _____
(Name) (Title)

(Surety) (Seal)

By: _____
(Attorney-in-Fact)

(MS Agent)

Mississippi Insurance ID Number

NOTE: THE ANTICIPATED WORKING DAYS SHOWN ON THIS SCHEDULE ARE FOR INFORMATIONAL PURPOSES ONLY. THE ACTUAL WORKING DAY TOTAL AS ASSESSED BY THE PROJECT ENGINEER ON FORM CSD-765 SHALL GOVERN.