Keyed

01 -



SM No. CSP0003012031

PROPOSAL AND CONTRACT DOCUMENTS

FOR THE CONSTRUCTION OF

01

Overlay approximately 7 miles on US 90 from SR 57 to the West Pascagoula River Bridge, known as State Project No. SP-0003-01(203) / 108278301 in Jackson County.

Project Completion: Flexible

(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 TABLE OF CONTENTS

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PROJECT: SP-0003-01(203)/108278301 - Jackson

Section 902 - Contract Form

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Progress Schedule

(REVISIONS TO THE ABOVE WILL BE INDICATED ON THE SECOND SHEET OF SECTION 905 AS ADDENDA)
04/01/2021 09:20 AM

SECTION 901 - ADVERTISEMENT

Electronic bids will be received by the Mississippi Transportation Commission at <u>10:00 o'clock A.M.</u>, <u>Tuesday</u>, <u>April 27</u>, <u>2021</u>, from the Bid Express Service and shortly thereafter publicly read on the Sixth Floor for:

Overlay approximately 7 miles on US 90 from SR 57 to the West Pascagoula River Bridge, known as State Project No. SP-0003-01(203) / 108278301 in Jackson County.

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

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

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

Contractors may request permission to bid online at http://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.

JEFFREY C. ALTMAN ACTING EXECUTIVE DIRECTOR

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.

CODE: (SP)

SECTION 904 - NOTICE TO BIDDERS NO. 3

DATE: 01/17/2017

SUBJECT: Final Clean-Up

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

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

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

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

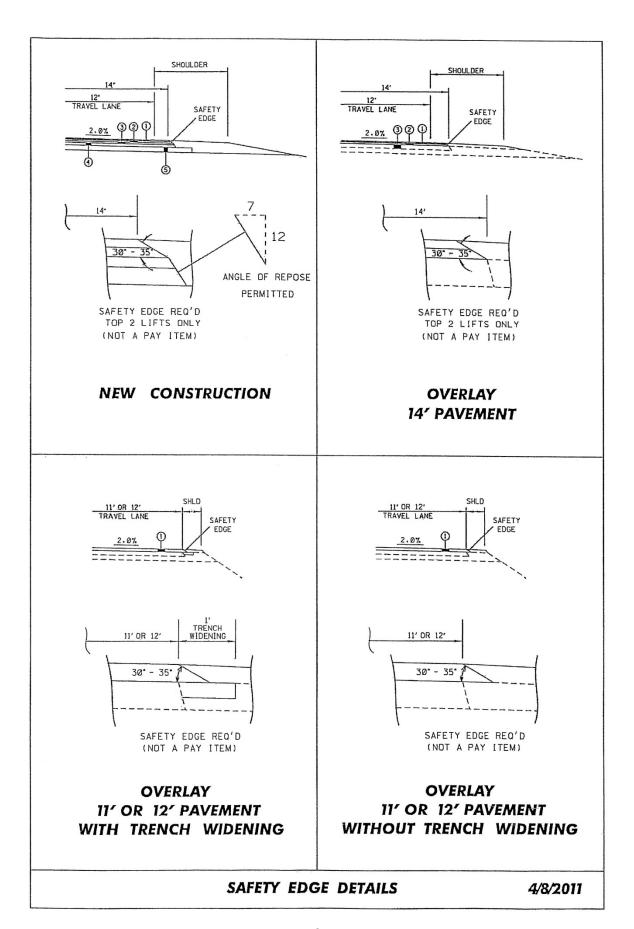
http://ops.fhwa.dot.gov/freight/sw/brdgcalc/calc_page.htm

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').



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

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.

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.**

SECTION 904 - NOTICE TO BIDDERS NO. 446 CODE: (SP)

DATE: 10/18/2017

SUBJECT: Traffic on Milled Surface in Urban Areas

Bidders are hereby advised that when the main lanes of a roadway are fine milled, traffic will be allowed to run on a milled surfaces for up to five (5) calendar days. The Contractor will be assessed a penalty of \$5,000 per calendar day afterwards until the milled surfaces are covered with the next lift of asphalt. It shall be the Contractor's responsibility to ensure that the milling operations do not commence until such time as forecasted weather conditions are suitable enough to allow the placement of the asphalt pavement after the milling operations.

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

725	702.08.3	In the second sentence of the first paragraph, change "hot-mix" to "asphalt."
954	804.02.13.1.6	In the definition for "M" in the % Reduction formulas, change "paragraph 7.3" to "paragraph 5.3."

SECTION 904 - NOTICE TO BIDDERS NO. 1225 CODE: (SP)

DATE: 11/13/2018

SUBJECT: Early Notice to Proceed

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

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.

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.

CODE: (IS)

SECTION 904 - NOTICE TO BIDDERS NO. 2206

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.

CODE: (SP)

SECTION 904 - NOTICE TO BIDDERS NO. 2273

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 <u>and</u> 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.



Page 1 of 1



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.

SECTION 904- NOTICE TO BIDDERS NO. 2365 CODE: (SP)

DATE: 03/23/2020

SUBJECT: Special Project Signs

Bidders are advised that this project will require Special Project Signs. The signs and posts will be State Furnished and Contractor will only be required to install, maintain, and remove the signs. The signs shall be erected prior to beginning any construction and remain in place for the duration of the project. The signs shall be installed near the beginning and end of the project at locations approved by the Engineer. The signs will remain the property of the Department at the end of the project. All costs for special project signs should be included in the bid price for pay item 618-A: Maintenance of Traffic.



6.0" Radius, 0.8" Border, Blue on White;

"Project Funded By" D 2K; "Mississippi Lottery" D 2K; "Thank Your" E 2K; "State Legislator" E 2K;

SECTION 904- NOTICE TO BIDDERS NO. 2397 CODE: (SP)

DATE: 03/24/2020

SUBJECT: Smoothness Tolerances for Ultra-Thin Asphalt Pavement

Bidders are hereby advised that the smoothness tolerances for ultra-thin asphalt pavement on this project shall meet the requirements of a Category C project in accordance with Subsection 403.03.2.1. There will be no final surface requirements or corrective action based for the short continuous interval. Bidders are responsible for the collection of a preliminary smoothness profile prior to any work being performed.

CODE: (SP)

SECTION 904 - NOTICE TO BIDDERS NO. 2954

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.

SECTION 904 – NOTICE TO BIDDERS NO. 3117 CODE: (SP)

DATE: 02/23/2021

SUBJECT: Standard Drawings

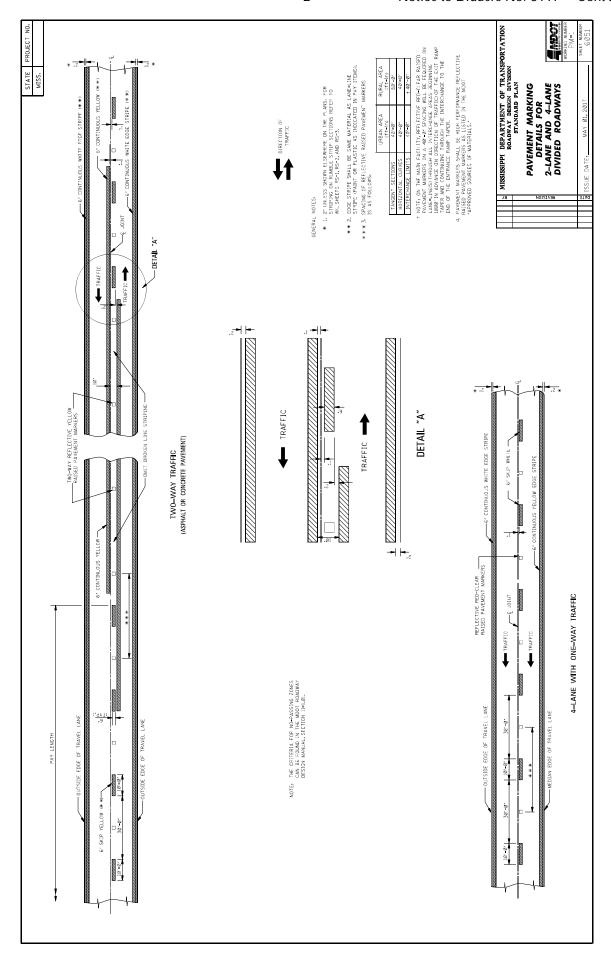
Standard Drawings attached hereto shall govern appropriate items of required work.

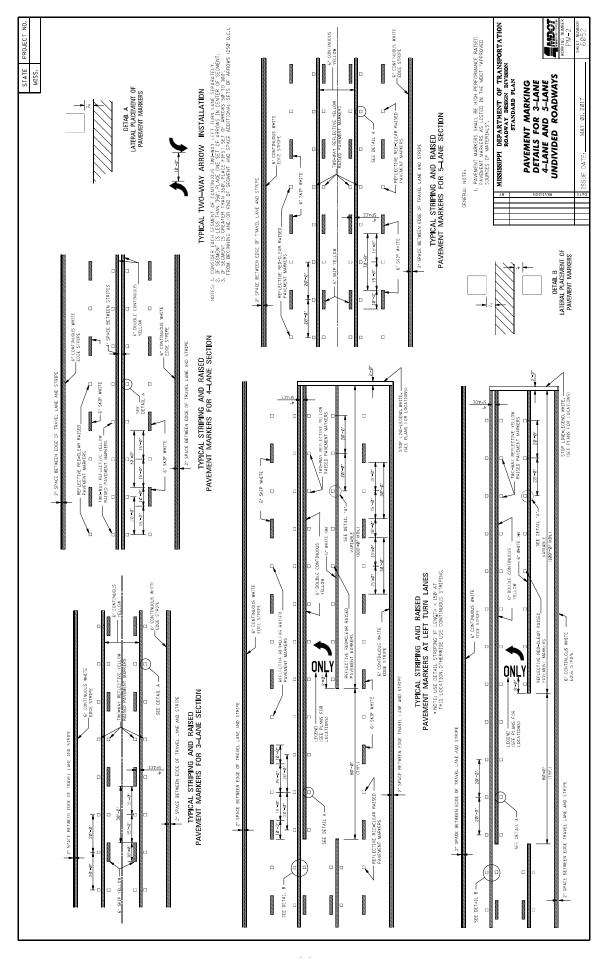
Larger copies of Standard Drawings may be purchased from:

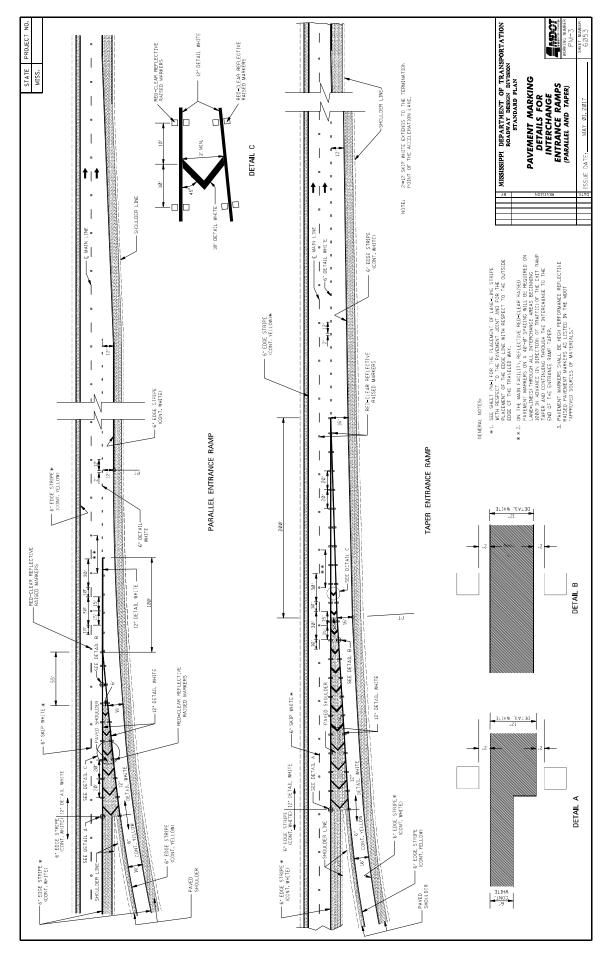
MDOT Plans Print Shop MDOT Shop Complex, Building C, Room 114 2567 North West Street P.O. Box 1850 Jackson, MS 39215-1850 Telephone: (601) 359-7460

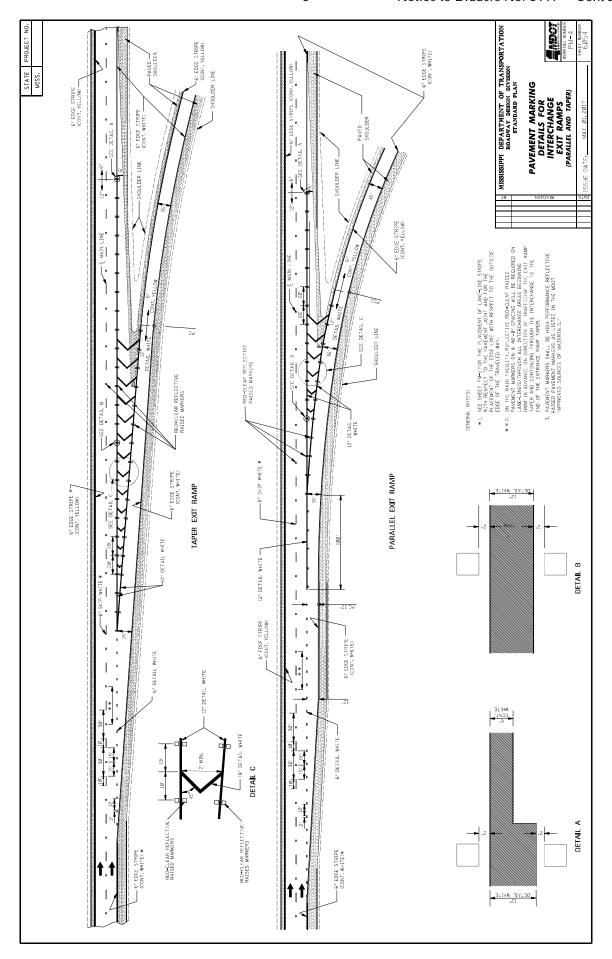
or FAX: (601) 359-7461

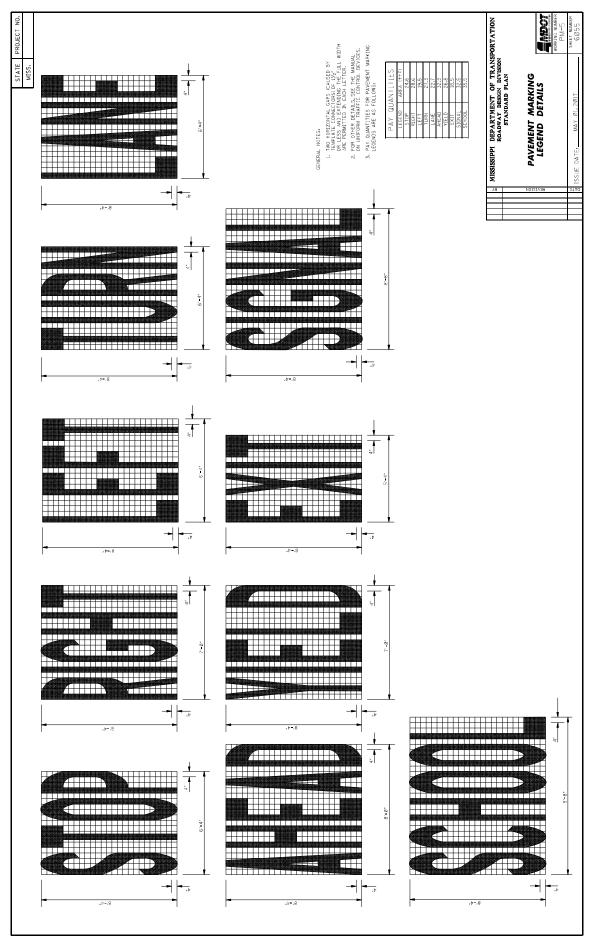
or e-mail: plans@mdot.state.ms.us

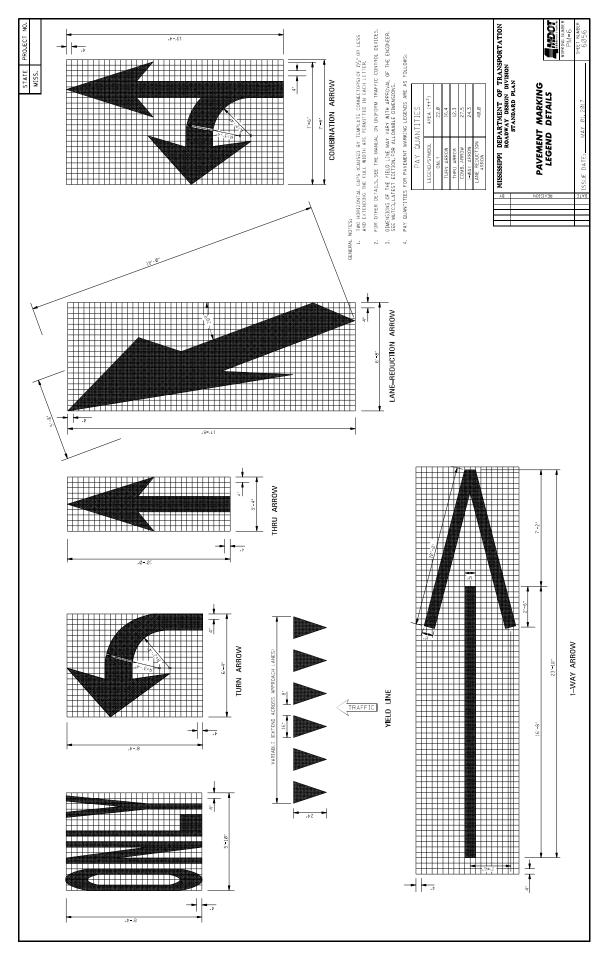


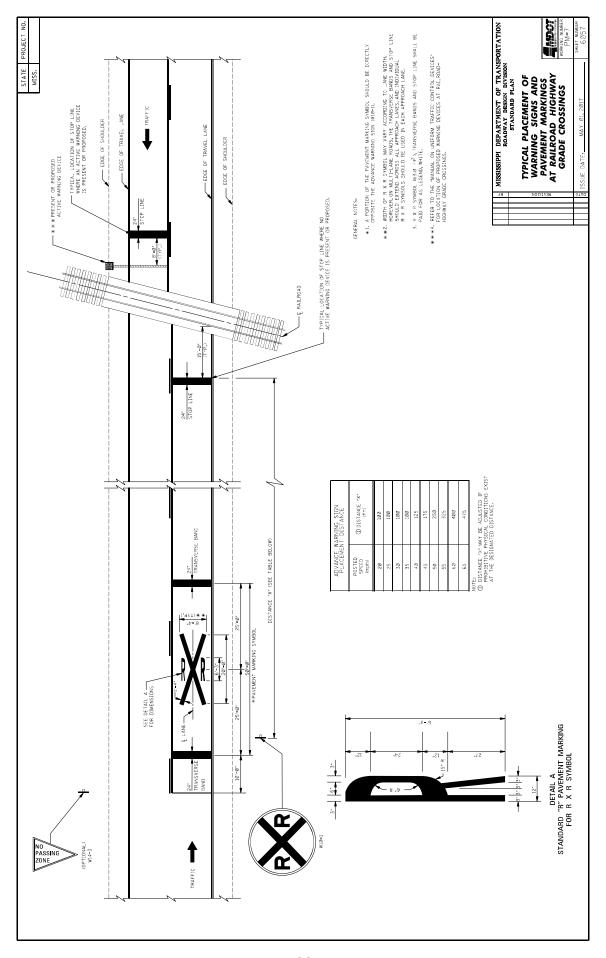


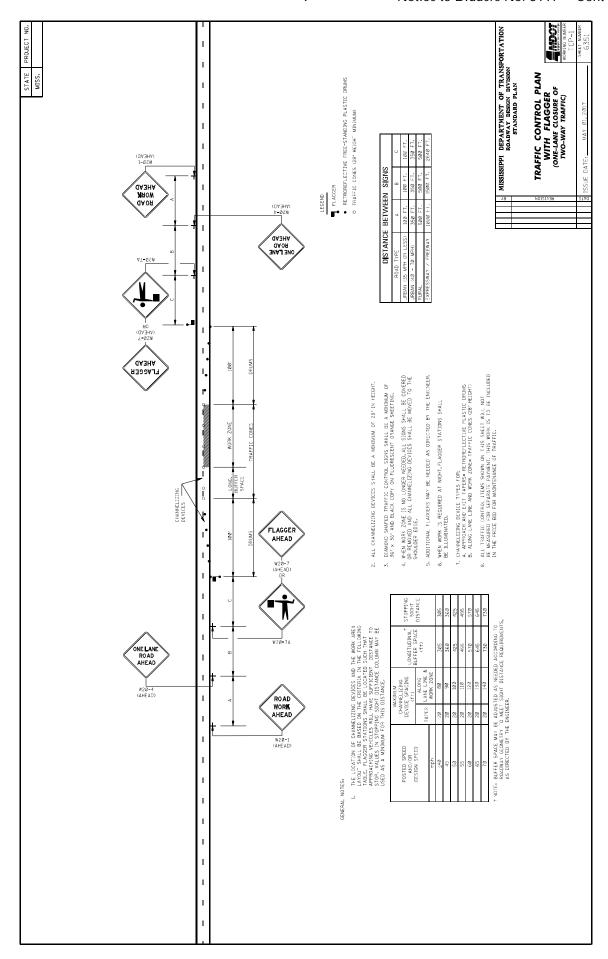


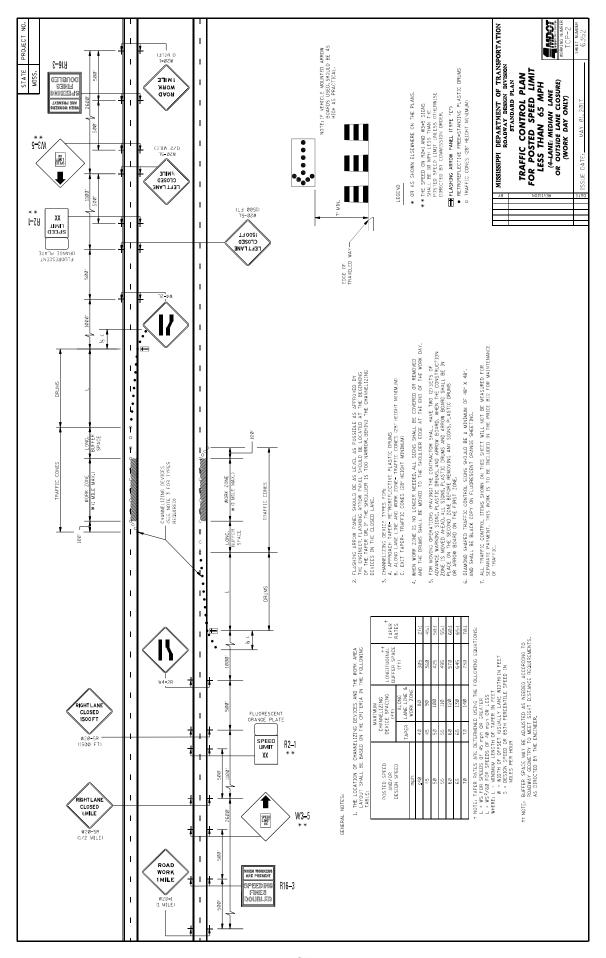


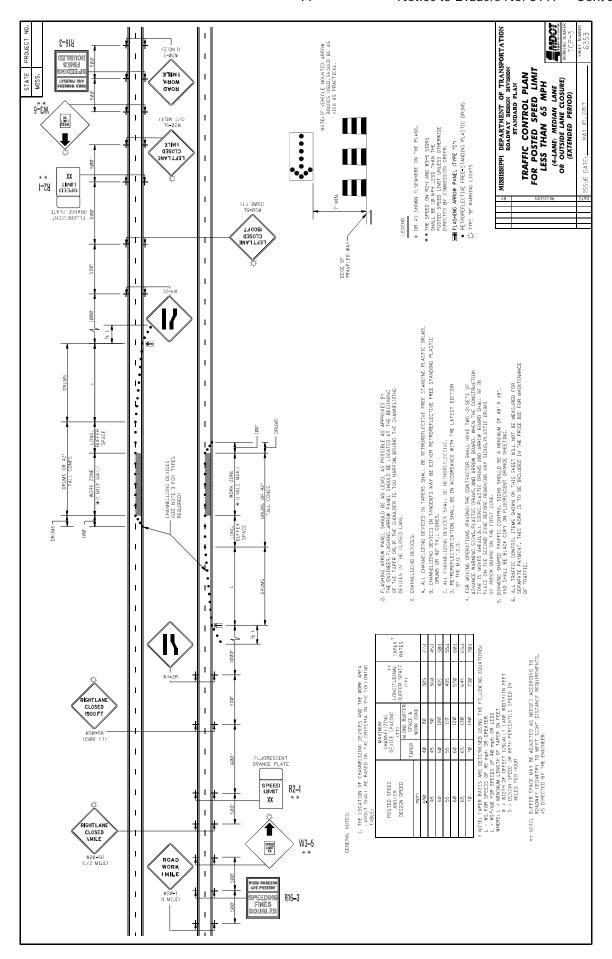


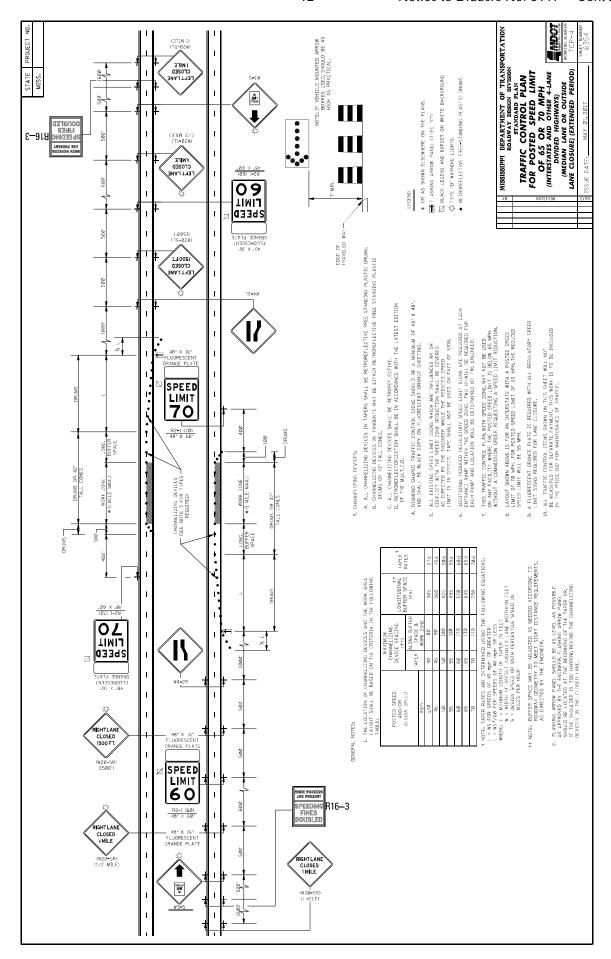


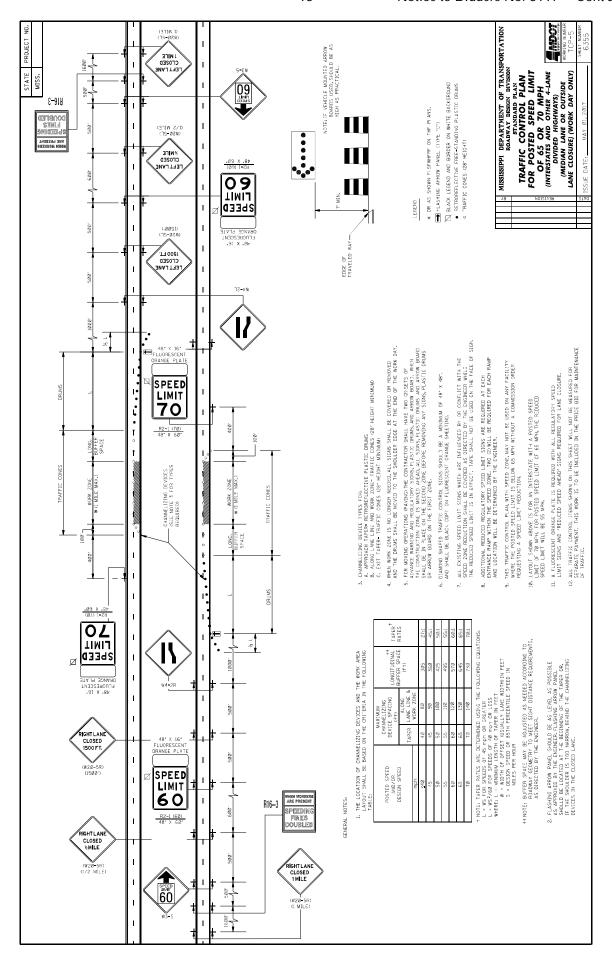


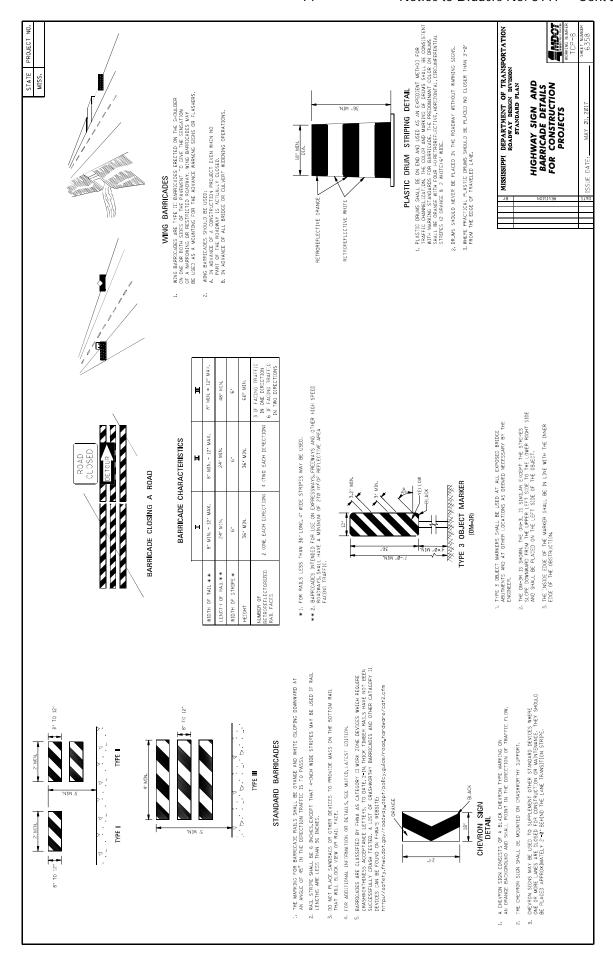


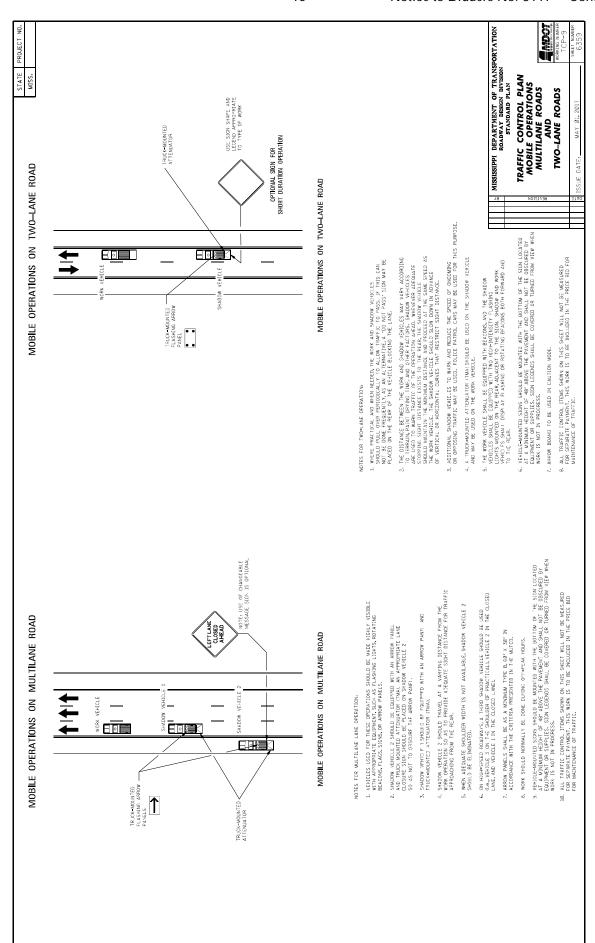


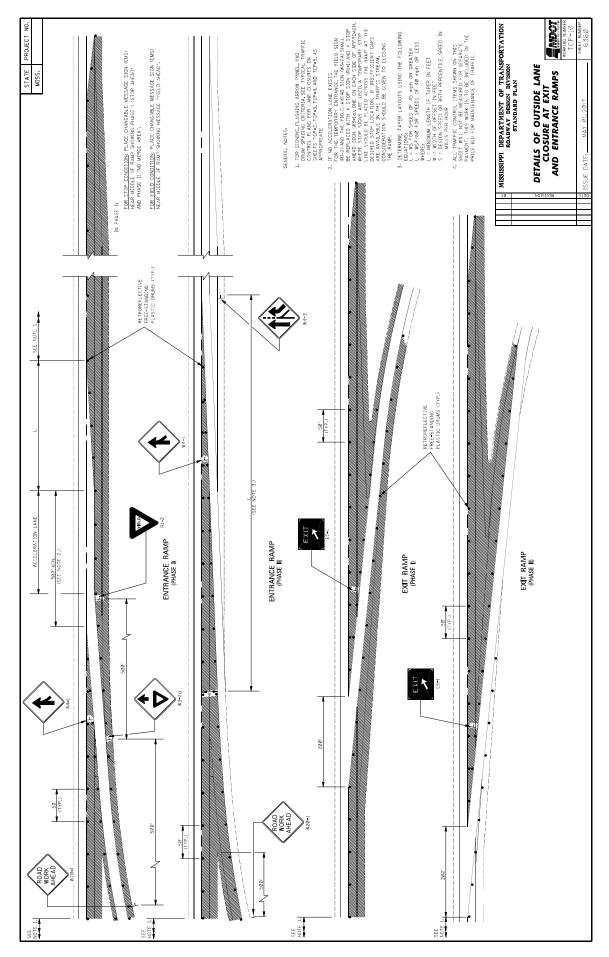


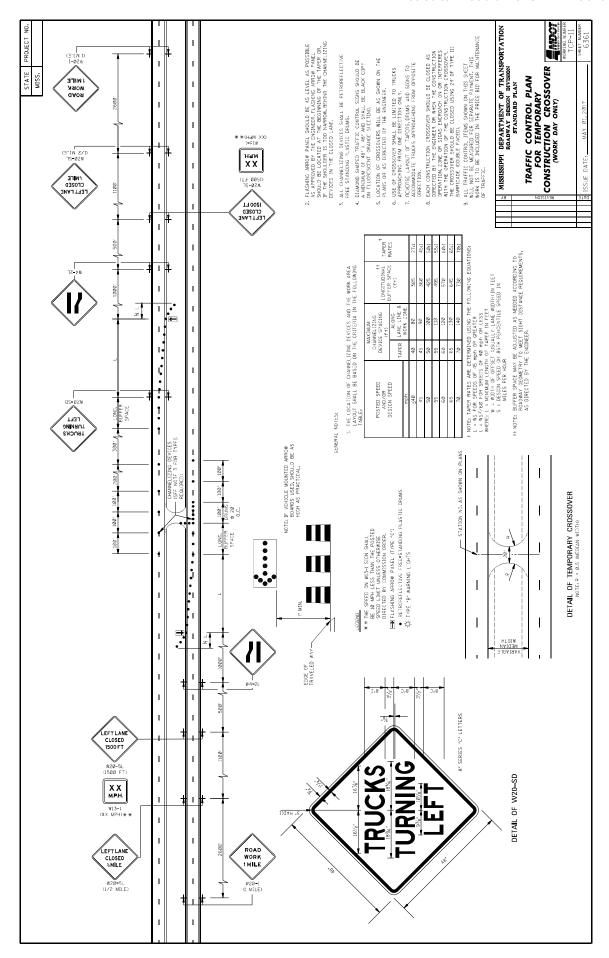


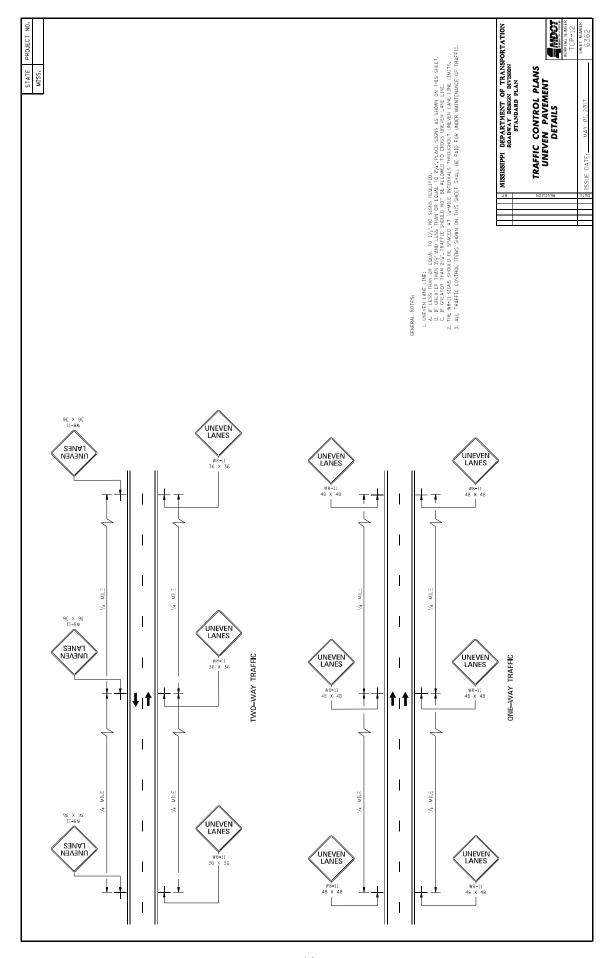


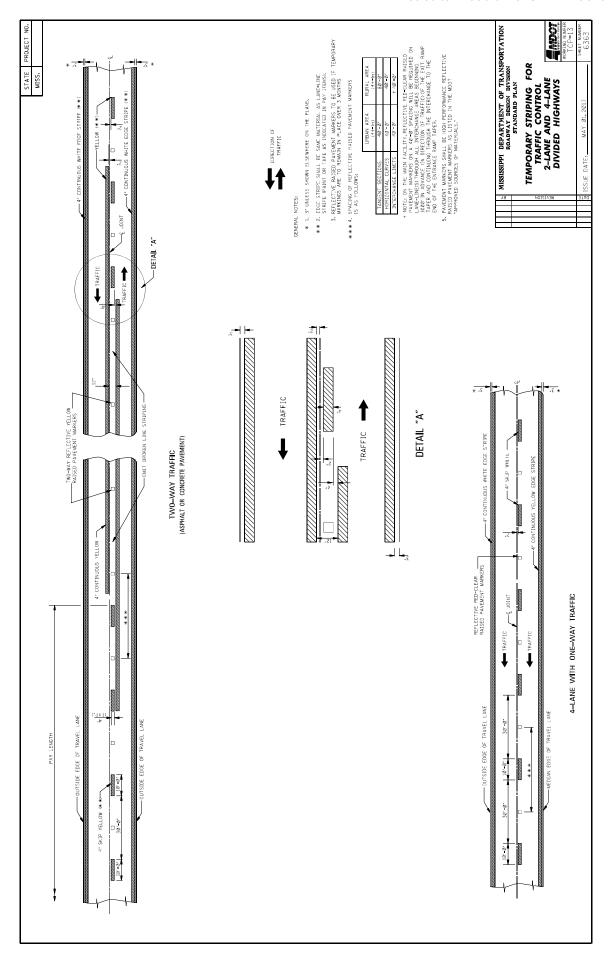


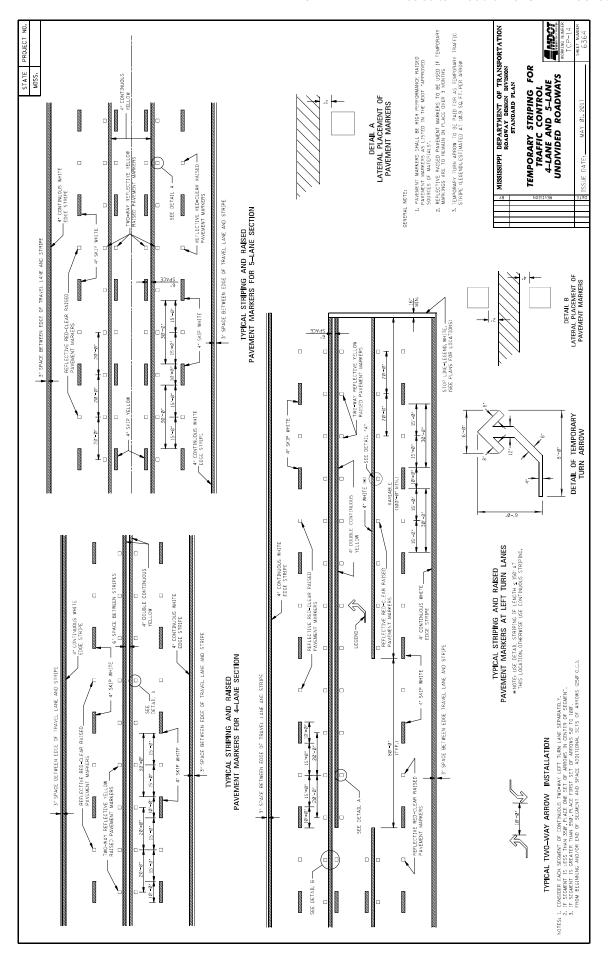


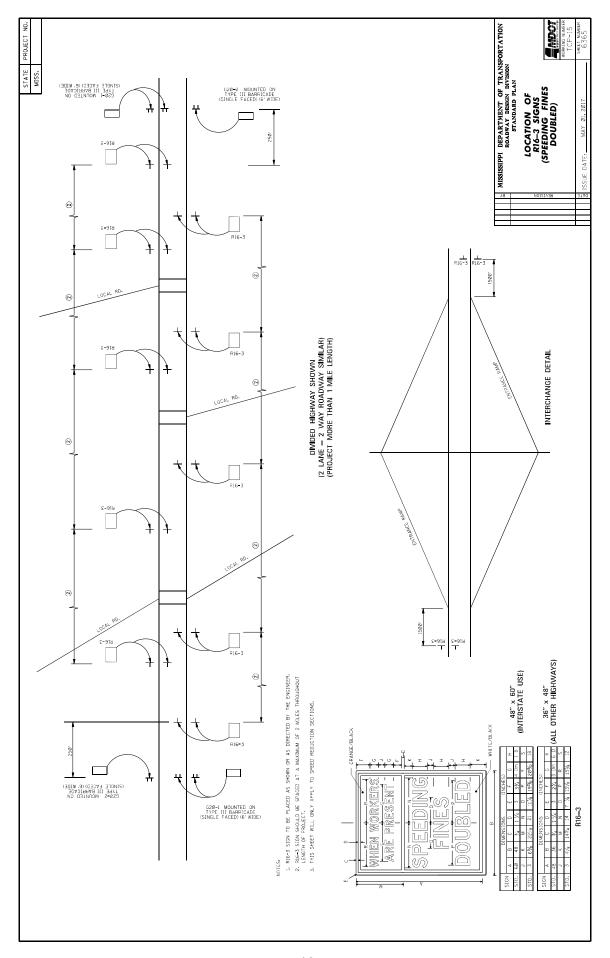


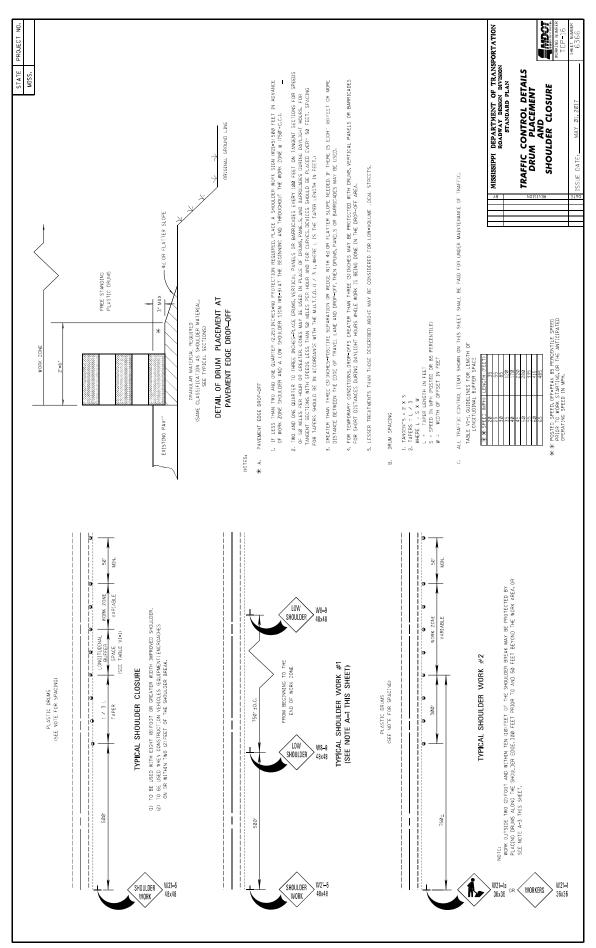


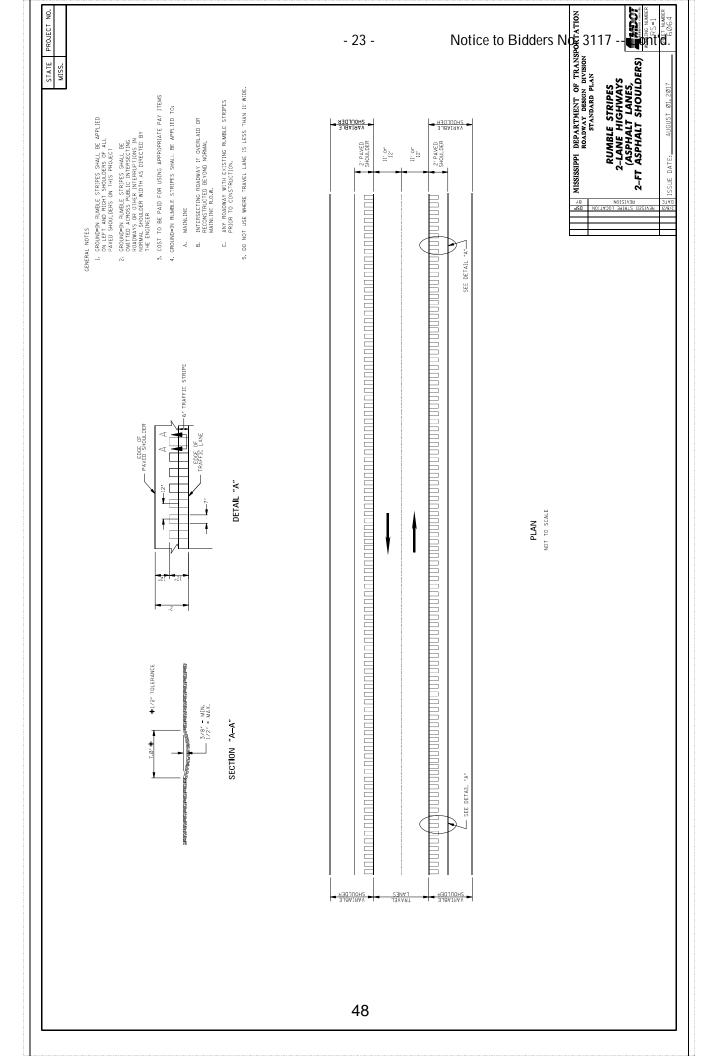


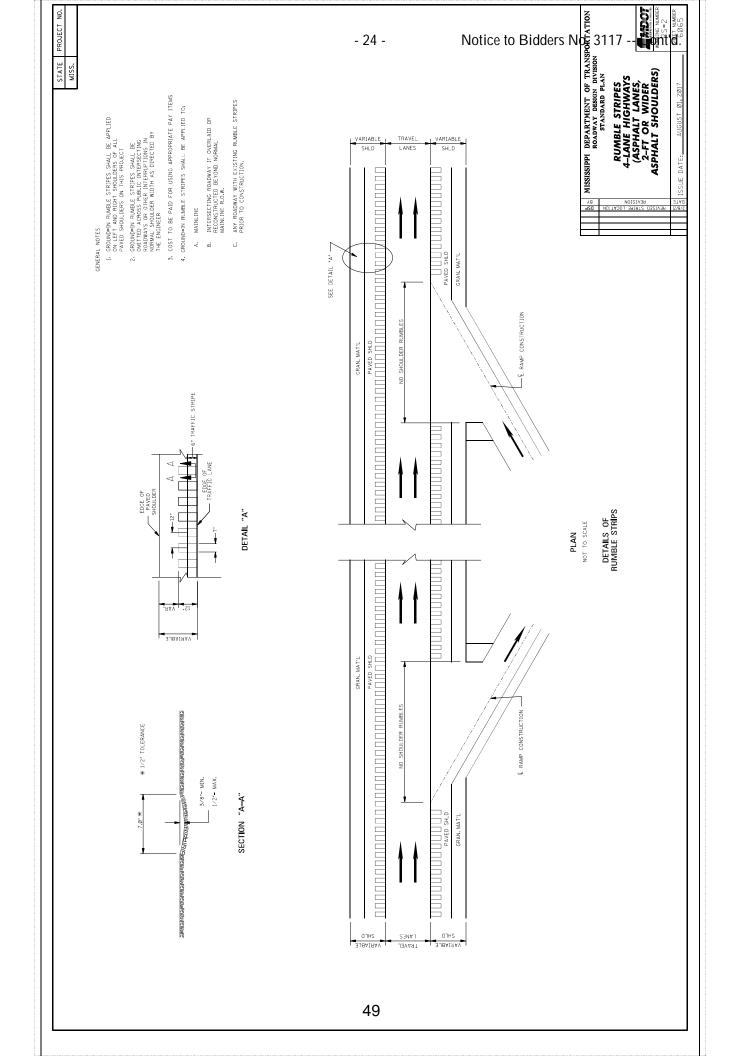


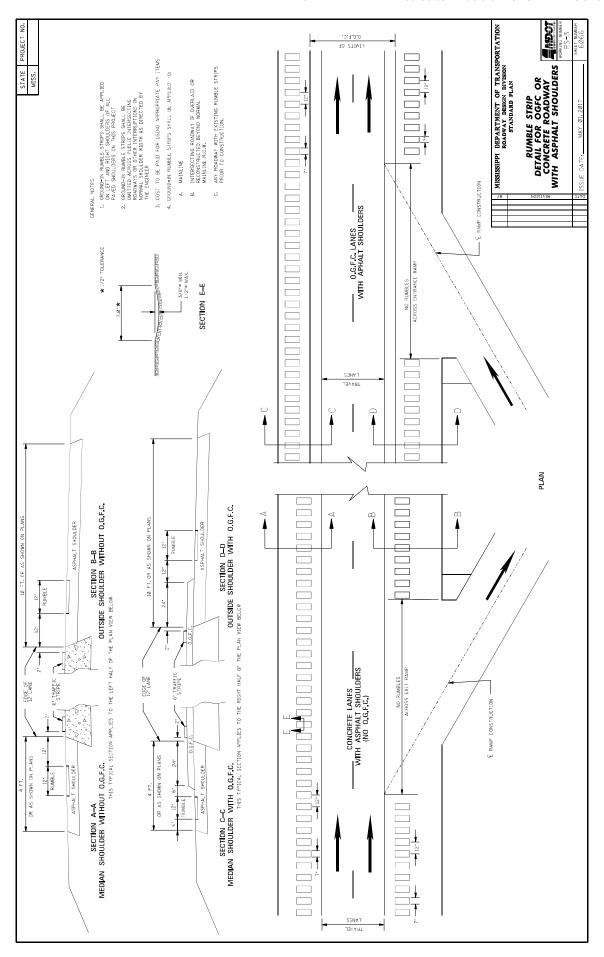












SECTION 904 - NOTICE TO BIDDERS NO. 3202 CODE: (SP)

DATE: 03/16/2021

SUBJECT: Contract Time

PROJECT: SP-0003-01(203) / 108278301 – Jackson County

The completion of work to be performed by the Contractor for this project will not be a specified date but shall be when all allowable working days are assessed, or any extension thereto as provided in Subsection 108.06. It is anticipated that the Notice of Award will be issued no later than May 11, 2021.

The Contractor shall request a Notice to Proceed/Beginning of Contract Time date between the dates of <u>June 10, 2021 and July 8, 2021</u>.

Should the Contractor request a Notice to Proceed earlier than <u>June 10, 2021</u> and it is agreeable with the Department for an early Notice to Proceed, the requested date will become the new Notice to Proceed and Beginning of Contract Time date.

Should the Contractor not request a Notice to Proceed by <u>July 8, 2021</u>, the date for the Notice to Proceed and Beginning of Contract Time will be <u>July 8, 2021</u>.

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

<u>76</u> Working Days have been allowed for the completion of work on this project.

The progress schedule for this project shows the Notice to Proceed and Beginning of Contract Time starting at the latest possible date. If the Contractor requests a Notice to Proceed earlier than this date, the Contractor shall submit a revised progress schedule showing the work beginning at the new Notice to Proceed and Beginning of Contract Time date.

CODE: (SP)

SECTION 904 - NOTICE TO BIDDERS NO. 3203

DATE: 2/3/2021

SUBJECT: Scope of Work

PROJECT: SP-0003-01(203) / 108278301 – Jackson 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.

Work on the project shall consist of milling and overlaying US 90 from SR 57 to the West Pascagoula Bridge as follows.

GENERAL CONDITIONS

- (A) All work requiring a lane closure within the limits of SR 57 and the West Pascagoula Bridge shall be restricted to Sunday through Thursday between the hours of 5:00 PM to 4:30 AM. Changes or variances from these restrictions shall be submitted to the Project Engineer for review and written approval. A lane rental fee of \$1,500.00 per full or partial 5-minute period shall be assessed for closures or obstructions that extend beyond the times mentioned above. No exposed signs shall be viewable to the traveling public prior to or after the above-mentioned times. No part of a closure, including drums or cones, shall be in the roadway prior to or after the above-mentioned times. Work requiring a shoulder or lane closure shall begin within one (1) hour of the completion of the closure setup. Lane closures will be allowed only at times when work requiring a lane closure is underway. Failure to begin working within this 1-hour period will result in the Contractor being assessed a lane rental fee of \$1,500.00 for each full or partial 5-minute period until work has begun.
- (B) Prior to the overlay, centerline alignment shall be determined by the Contractor by measuring the existing roadway at 500-foot intervals in tangent sections and 100-foot intervals in horizontal curves.
- (C) A uniform cross slope of $\pm 2\%$ in tangent sections and correction/maintenance of super elevation in the curves is required. Super-elevation rates shall be in accordance with the super elevation Standard Drawings.
- (D) Temporary stripe along the mainline, as well as temporary detail stop bars of all intersecting local roads shall be placed on the asphalt surface upon the completion of each lift of mainline operations. Temporary and permanent striping shall be placed where existing stripes are located, and shall conform to finished stripe specifications for

alignment, neatness, reflectivity, and straightness. All permanent pavement markings on asphalt are to be hot thermoplastic. Edge lines will be placed so as to maintain the original lane width.

- (E) It will be the responsibility of the Contractor to protect existing structures such as pipes, inlets, bridges, aprons, etc. from damage which might occur during construction. The Contractor shall replace or repair, as directed by the Project Engineer, any structures damaged by the Contractor's operations during the life of the contract. No payment will be made for the replacement or repair of damaged items.
- (F) The Contractor shall erect and maintain construction signing, and provide all signs and traffic handling devices in accordance with the latest edition of the <u>Manual on Uniform</u> Traffic Control Devices (MUTCD).
- (G) Incidental work such as removing vegetation, shaping and compaction of shoulder, removing excess asphalt material, project clean-up, and other incidental work necessary to complete the project will not be measured for separate payment, but will be included in other bid items.
- (H) If pavement section marking tape is encountered on this project, it shall be located prior to overlaying and placed back in same location after paving operations have ceased. The section marking shall be 8-inch high performance cold plastic detail stripe and shall be four feet (4') in length. The marking shall be centered across the centerline stripe. The cost of this item shall be absorbed in other bid items.
- (I) The Contractor shall mill around all castings, gratings, and other utility appurtenances to ensure that the newly placed asphalt matches the existing grade.

RESURFACING 6.73 MILES OF US Hwy 90 From SR 57 to West Pascagoula Bridge

Drainage Items

The Contractor shall:

- 1. Remove debris and sand from 24" and 36" pipes under US 90 East and West bound lanes between Shaw Drive and Guillotte Drive.
- 2. Video inspect 24" and 36" pipes under US 90 East and West bound lanes.
- 3. Construct 24" and 36" Cured-In-Place Pipe under US 90 East and West bound lanes.

Pavement Items

Fine Milling Areas

1. Traffic will only be allowed to travel on fine milled surface for a maximum of five (5) days.

- 2. MDOT shall retain 50% or 10,000 tons of the reclaimed asphalt pavement, whichever is less. The Contractor shall haul it to the nearest MDOT Maintenance Headquarters. (6100 Highway 57, Ocean Springs, MS 39564).
- 3. Both the east and west bound lanes shall be fine milled from the BOP through the intersection of US 90 and SR 57 to a depth of 2". This shall include fine milling along SR 57 and around concrete islands. The Contractor shall fine mill a 150-foot long transition from 2" to 0" just east of the intersection. (9,380 SY on US 90, 5,403 SY on SR 57 North, and 5,080 SY on SR 57 South)
- 4. Both the east and west bound lanes shall be fine milled at the intersection of US 90 and Ladnier Road to a depth of 2". This shall include a 150-foot transition from 0" to 2" before the start of the curb and gutter located on the south side of the east bound lane of US 90. This shall also include a 150-foot transition from 2" to 0" beginning at the end of the island located in the median on the east side of Ladnier Road. The area to be fine milled shall include Ladnier Road. (12,729 SY)
- 5. The outside shoulders that have curb and gutter from Ladnier Road to the crossover just west of Mary Walker Drive shall be fine milled. The depth of the milling at the edge of the travel lane shall be 0". The depth of the milling located at the curb and gutter shall be 1½".

Location	SY	
East Bound Shoulder between Ladnier to Jo Beth Terrace		
East Bound Shoulder between Shaw to passed C&G area	619	
West Bound Shoulder between Ladnier to Shamrock Ct	735	
West Bound Shoulder between Shamrock Cr to De La Pointe Drive	4,556	
West Bound Shoulder between Shaw to Guillotte Drive	1,665	
West Bound Shoulder between Guillotte Drive and Crossover west of Mary Walker Drive	1,124	

- 6. The east and west bound lanes including shoulders and crossovers shall be fine milled from the crossover west of Mary Walker Road to the West Pascagoula Bridge to a depth of 2". This shall include a 150-foot transition from 0" to 2" before the start of the curb and gutter located in the first crossover west of Mary Walker Road. (37,948 SY)
- 7. Channelize intersections and local road tie-ins shall be fine milled to a depth of $1\frac{1}{2}$ ". (17,403 SY)
- 8. All service roads shall be fine milled to a depth of 1½". (12,454 SY)

Asphalt Pavement

- 1. Prior to overlaying US 90 Mainline and SR 57 Mainline, a leveling course of 3/4" of Ultra-Thin Asphalt Pavement shall be placed from BOP to EOP. (12,060 tons).
- 2. US 90 Mainline and SR 57 Mainline shall be overlaid with 1¼" of 9.5-mm, HT, asphalt. (20,100 tons).
- 3. A 2' wide and 3" deep trench widening shall be placed on both sides of all crossovers that do not have curb and gutter using 9.5-mm, ST, asphalt. The Contractor shall complete the trench widening operation in concurrence with the asphalt lift outlined in part (4)

- 4 -
- 4. Crossovers shall be overlaid with 1½" of 9.5-mm, ST, asphalt. This lift shall be placed in concurrence with the trench widening as outlined in part (3). (3,780 Tons)
- 5. Turn lanes, shoulders, side roads, driveway pads, and service roads shall be overlaid with 1½" of 9.5-mm, ST, asphalt (Turn Lanes & Shoulders 6,480 Tons, Side Roads & Driveway Pads 1,940 Tons, Service Roads 1,408 Tons)
- 6. Shoulders shall be raised with crushed stone to match new asphalt pavement edge.
- 7. If water stands when project is complete, the Contractor shall correct at no additional cost to the State.

Pavement Marking Items

- 1. Temporary stripe shall be placed after each day's operation.
- 2. Regardless of the spacing shown on sheet PM-1, raised pavement markers shall be placed along the centerline of roadway at 40-foot intervals. Only flexible adhesive meeting the requirements of Subsection 720.03.7.7 shall be used for placement of raised pavement markers.
- 3. Rumble strips shall be required along US 90 from SR 57 to crossover just east of Shell Landing Blvd.

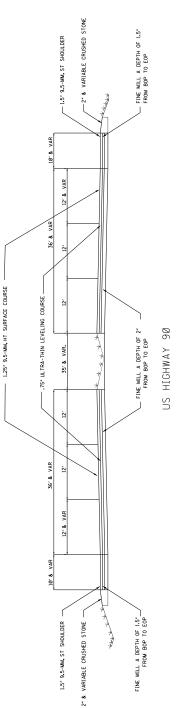
Traffic Signal Items

1. 6' x 6' Vehicle loop assemblies shall be installed at the intersection of US 90 and following.

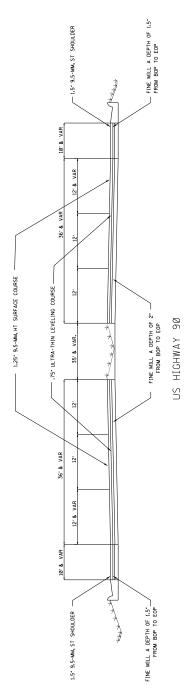
Intersection	Direction	Loop Size	Number of Loops
SR 57	West Bound	6'x6'	2
SR 57	East Bound	6'x6'	2
Dolphin Drive	West Bound	6'x6'	3
Dolphin Drive	East Bound	6'x6'	2
Mall Entrance	West Bound	6'x6'	3
Mall Entrance	East Bound	6'x6'	3
Gautier-Vancleave Road	West Bound	6'x6'	3
Gautier-Vancleave Road	East Bound	6'x6'	3
Ladnier Road	West Bound	6'x6'	3
Ladnier Road	East Bound	6'x6'	3
Suter Road	West Bound	6'x6'	3
Suter Road	East Bound	6'x6'	3
Oak Street	West Bound	6'x6'	3

JACKSON COUNTY

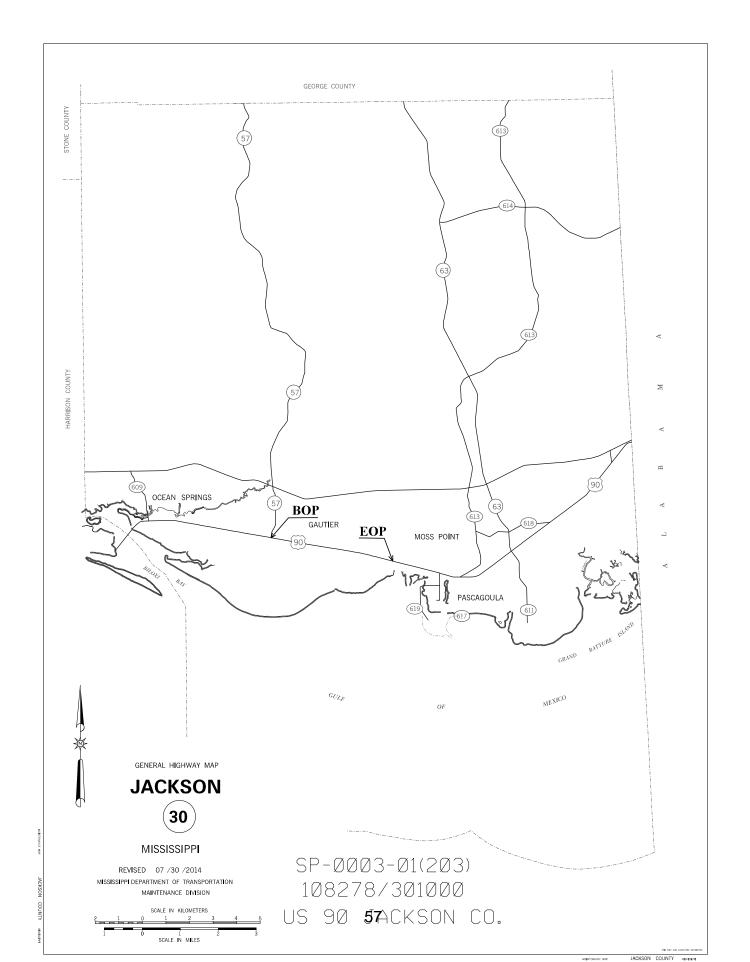
US HIGHWAY 90 FROM SR 57 TO WEST PASCAGOULA BRIDGE

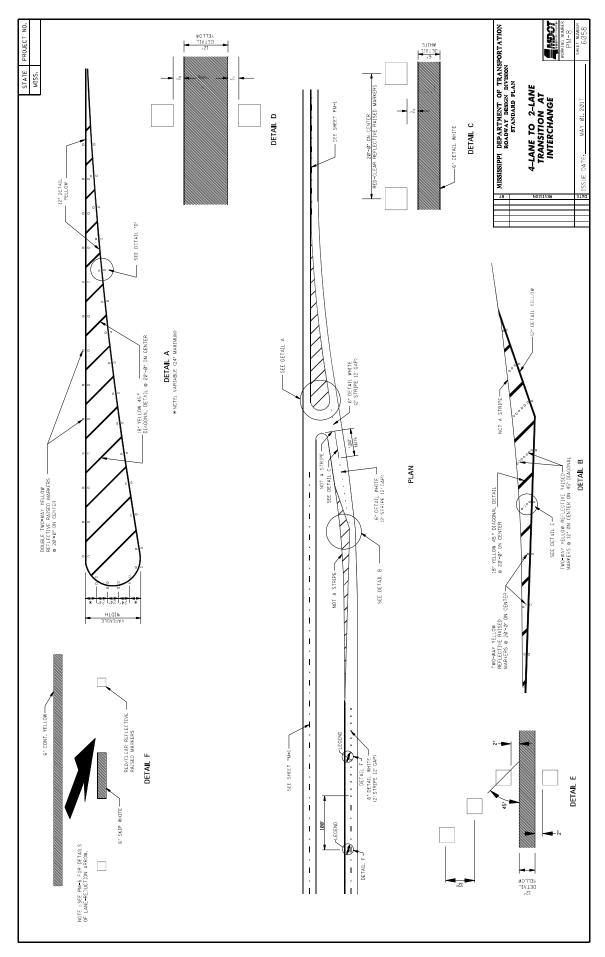


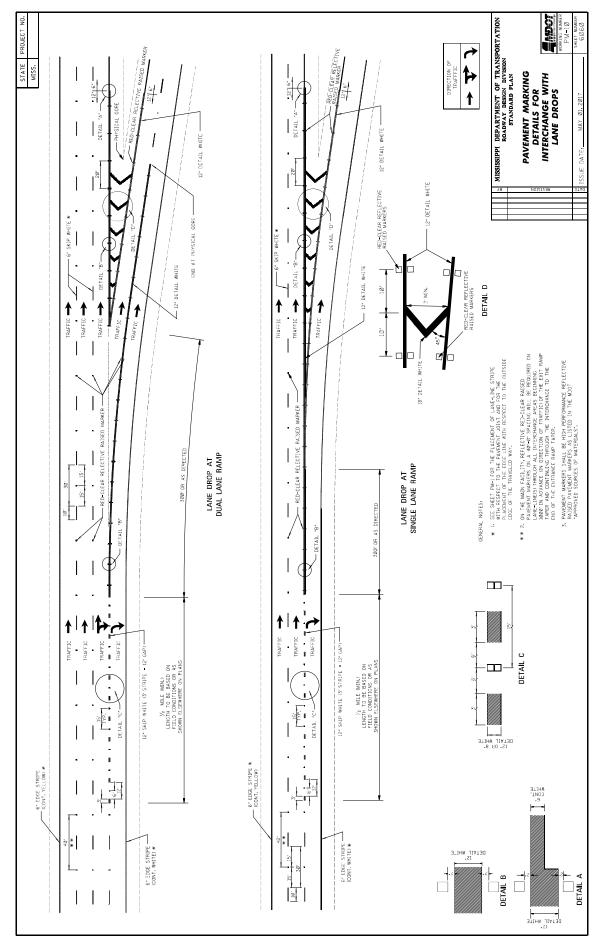
TYPICAL SECTION AT AREAS WITH OUT CURB & GUTTER

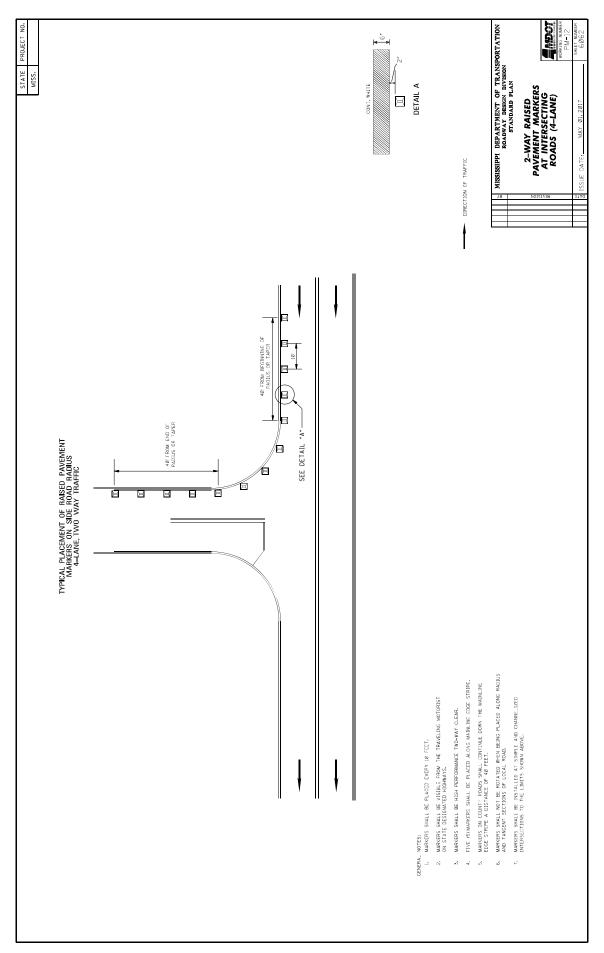


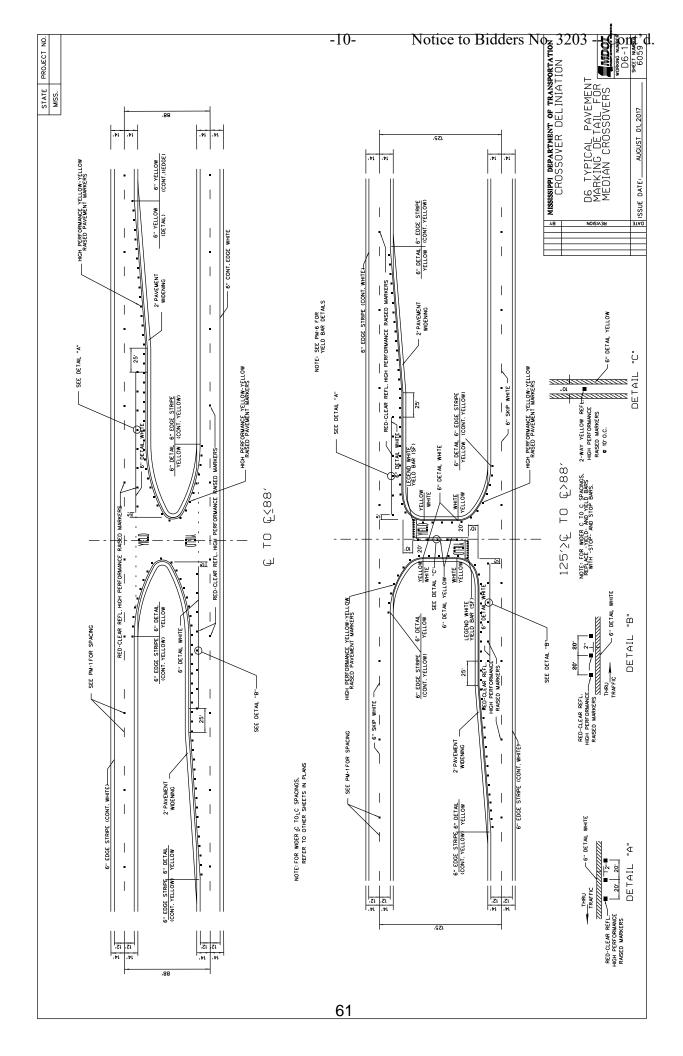
TYPICAL SECTION AT CURB & GUTTER AREAS

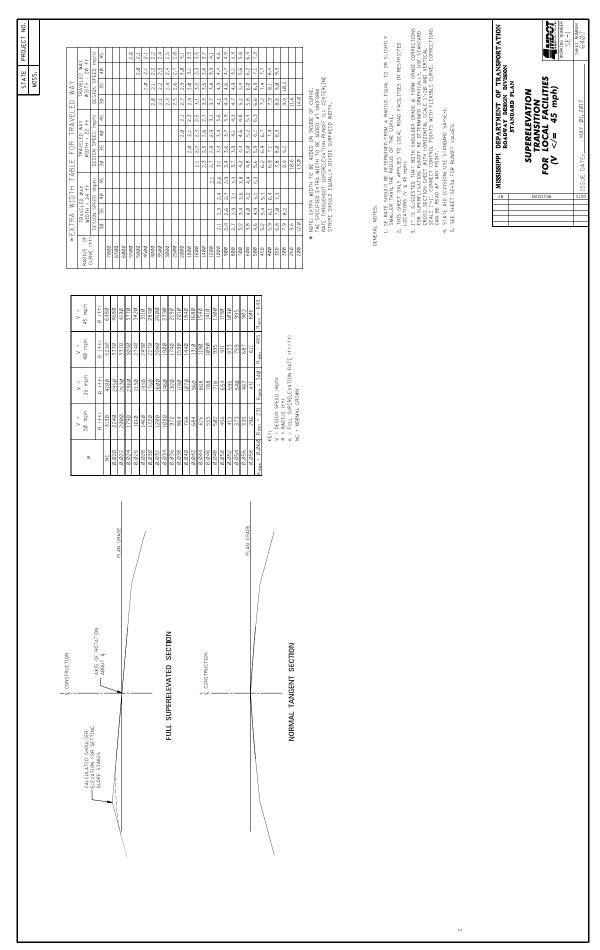


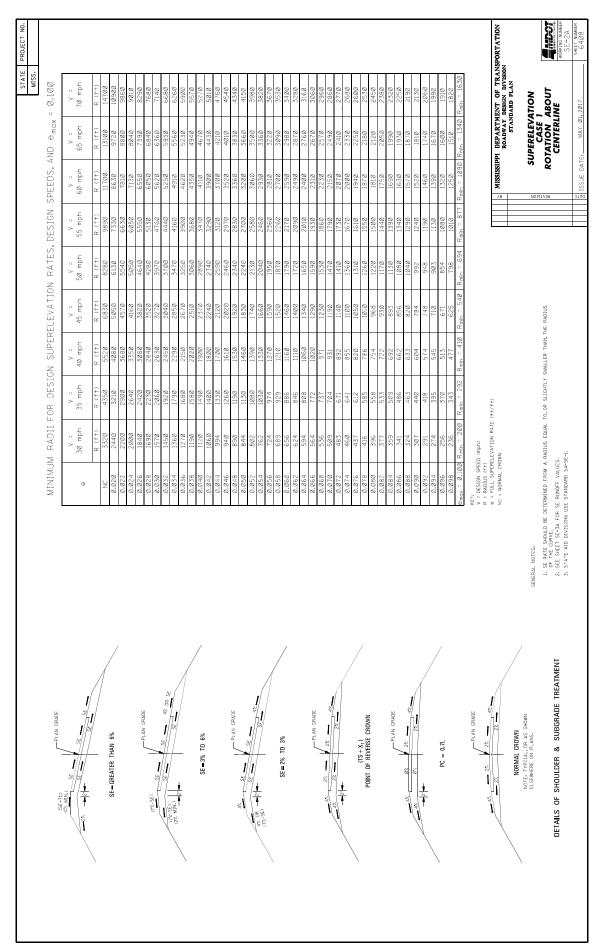


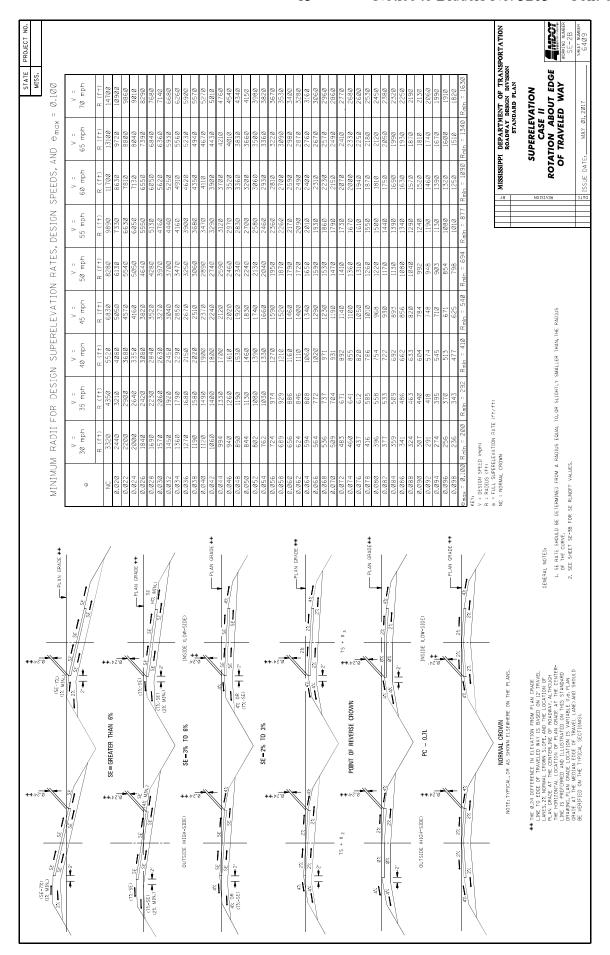


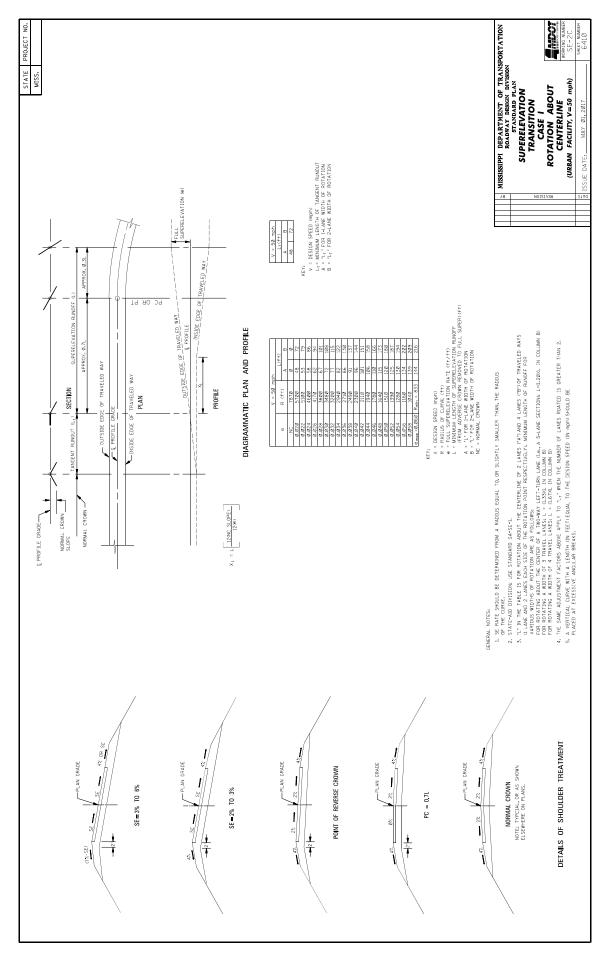


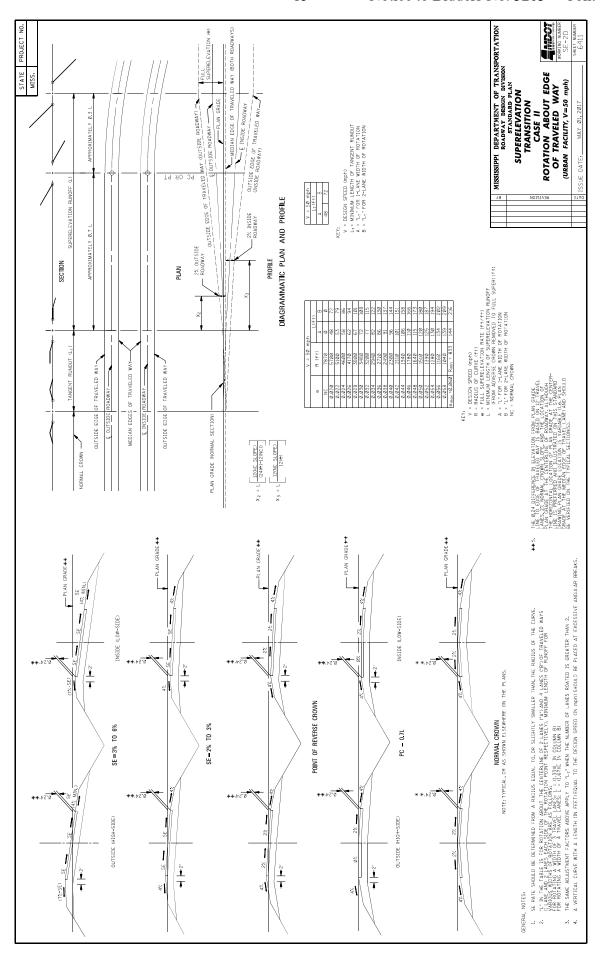


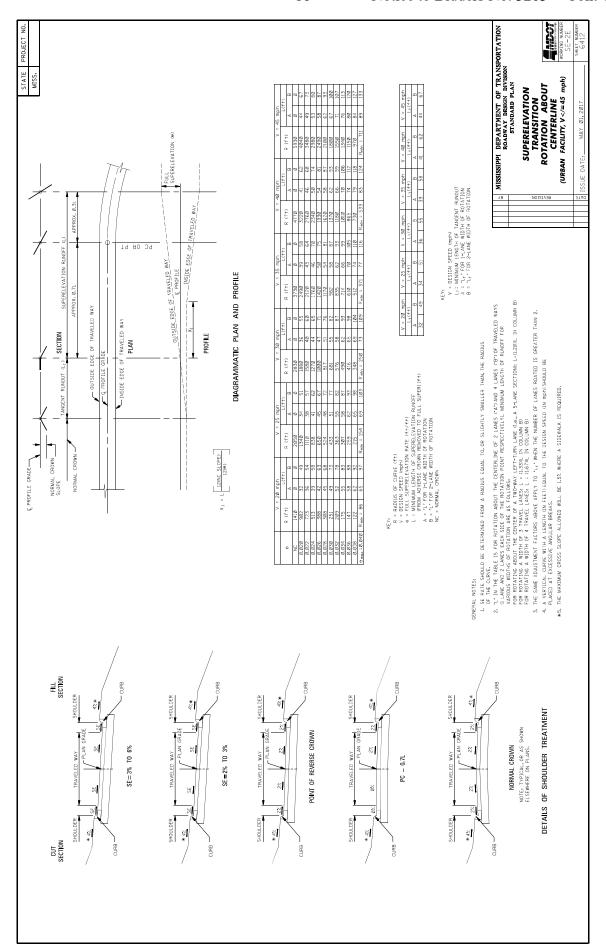


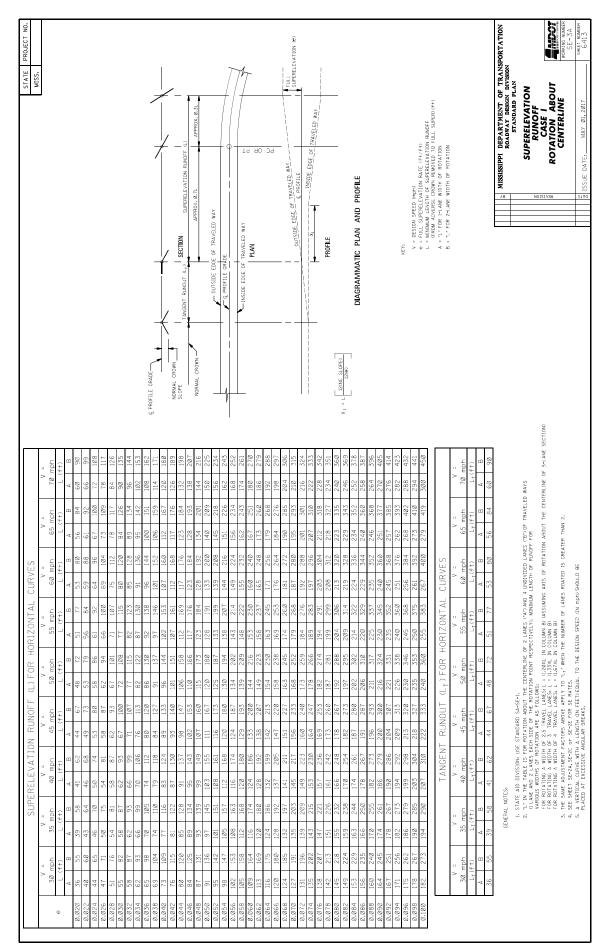


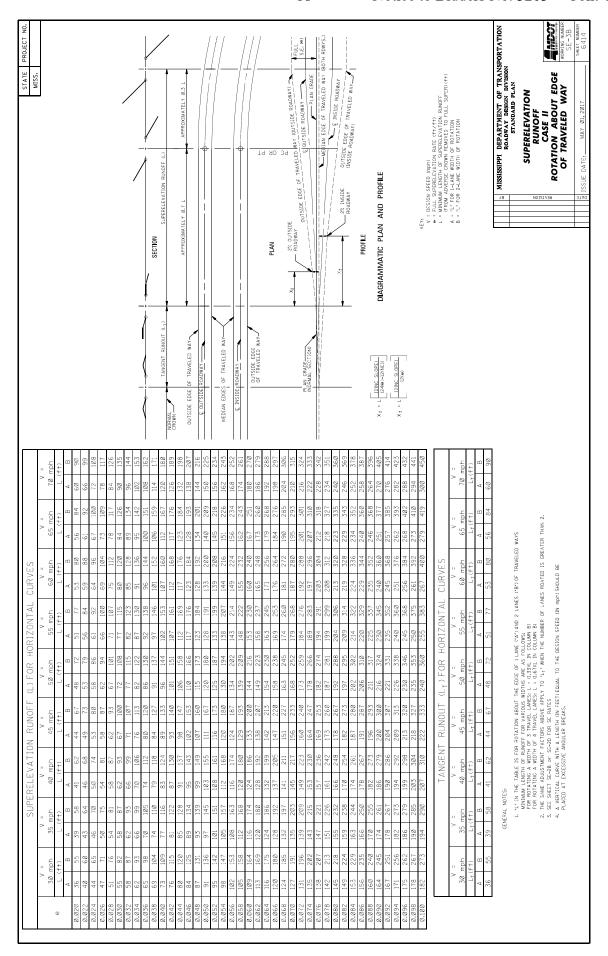












CODE: (IS)

SPECIAL PROVISION NO. 907-102-2

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.

<u>907-102.01--Prequalification of Bidders.</u> 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.

<u>907-102.02--Contents of Proposal Forms</u>. 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.

CODE: (SP)

SPECIAL PROVISION NO. 907-103-2

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.

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

<u>907-103.01.1--For Projects Constructed Without Federal Funds.</u> 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.

CODE: (SP)

SPECIAL PROVISION NO. 907-108-4

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.

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

CODE: (SP)

SPECIAL PROVISION NO. 907-109-3

DATE: 02/23/2021

SUBJECT: Measurement and Payment

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

<u>907-109.01--Measurement of Quantities</u>. Delete the sixth full paragraph of Subsection 109.01on 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.

<u>907-109.04.1--Supplemental Agreement</u>. Delete the second paragraph of Subsection 109.04.1 on page 90.

907-109.06--Partial Payment.

<u>907-109.06.2--Advancement on Materials</u>. 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.

CODE: (IS)

SPECIAL PROVISION NO. 907-411-1

DATE: 06/13/2018

SUBJECT: Material Transfer Equipment

Section 411, Ultra-Thin Asphalt Pavement, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

<u>907-411.03--Construction Requirements.</u> After Subsection 411.03.10 on page 327, add the following.

<u>907-411.03.11--Material Transfer Equipment</u>. Excluding the areas mentioned below, the material transferred from the hauling unit shall be remixed prior to being placed in the paver hopper or insert by using an approved Materials Transfer Device. Information on approved devices can be obtained from the State Construction Engineer. Areas excluded from this requirement include: temporary work of short duration, detours, bridge replacement projects having less than 1,000 feet of pavement on each side of the structure, acceleration and deceleration lanes less than 1,000 feet in length, tapered sections, transition sections (for width), shoulders less than 10 feet in width, crossovers, ramps, side street returns and other areas designated by the Engineer.

907-411.05-Basis of Payment. Add the "907" prefix to the pay item listed on page 328.

CODE: (SP)

SPECIAL PROVISION NO. 907-603-2

DATE: 01/17/2017

SUBJECT: Cured-In-Place Pipe

Section 603, Culverts and Storm Drains, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as modified by this special provision, is applicable to Cured-In-Place Pipe Only.

<u>907-603.01--Description.</u> This work shall consist of the installation of a resin-impregnated flexible tube, which is formed to the original conduit by use of a hydrostatic head. The resin is cured using hot water under hydrostatic pressure within the tube. The Cured-In-Place Pipe (CIPP) will be continuous and tight fitting. This work shall meet the requirements of ASTM Designations: F 1216, F 1743 and D 790, as modified by this specification.

The Contractor is advised that the liquid flowing through the pipe is storm water.

<u>907-603.01.1--Qualification of Contractor.</u> The person(s) or firm performing the work described in this specification shall be knowledgeable of trenchless rehabilitation products and installation procedures in accordance with the following minimum experience requirements:

The rehabilitation product must have a minimum of 1,000,000 linear feet or 4,000 manhole-to-manhole line sections of successful drainage collection system installation. In addition, at least 50,000 linear feet of the product shall have been in successful service within the State for a minimum of five years.

The manufacturer of the rehabilitation product must provide third party test results supporting the long term performance and structural strength of the product and such data shall be satisfactory to the State. Test samples shall be prepared so as to simulate installation methods and trauma of the product. No product will be approved without independent third party testing verification.

The person(s) or firm performing the work must have had at least five (5) years of active experience in the commercial installation of the product. In addition, the person(s) or firm must have successfully installed at least 50,000 feet of the product in drainage collection systems.

Both the rehabilitation manufacturing and installation processes shall operate under a quality management system which is third-party certified to ISO 9000 or other internationally recognized organization standards. Proof of certification shall be required.

At the preconstruction conference or prior to starting CIPP installation, the Contractor shall furnish evidence of the following requirements.

- (A) A signed statement from the person(s) or firm performing the work that the project site has been visited, and that the drainage system has been inspected.
- (B) Ability of the Contractor/firm responsible for installation of the CIPP to complete a project of this type. This is to be supported by a list containing a detailed description of the requirements listed above. This list shall include project locations and names/phone numbers of the project owner's representatives who can verify the Contractor/firm's participation on the project, and the names of the person(s) who were in charge of the Contractor's operations.

907-603.02--Materials.

<u>907-603.02.1--Tube.</u> The sewn tube shall consist of one or more layers of absorbent non-woven felt fabric and meet the requirements of ASTM Designation: F 1216 or F 1743, Section 5. The tube shall be constructed to withstand installation pressures, have sufficient strength to bridge missing pipe, and stretch to fit irregular pipe sections.

The wet out tube shall have a uniform thickness that when compressed at installation pressures will meet or exceed the Design thickness.

The tube shall be sewn to a size that when installed will tightly fit the internal circumference and length of the original pipe. Allowance should be made for circumferential stretching during inversion. Overlapped layers of felt in longitudinal seams that cause lumps in the final product shall not be utilized.

The outside layer of the tube, before wet out, shall be coated with an impermeable, flexible membrane that will contain the resin and facilitate monitoring of resin saturation during the resin impregnation (wet out) procedure.

The tube shall be homogeneous across the entire wall thickness containing no intermediate or encapsulated elastomeric layers. No material shall be included in the tube that may cause delamination in the cured CIPP. No dry or unsaturated layers shall be evident.

The wall color of the interior pipe surface of CIPP after installation shall be a light reflective color so that a clear detailed examination with closed circuit television inspection equipment may be made.

Seams in the tube shall be stronger than the non-seamed felt.

The outside of the tube shall be marked for distance at regular intervals along its entire length, not to exceed five feet. Such markings shall include the Manufacturers name or identifying symbol.

<u>907-603.02.2--Resin.</u> The resin system shall be a corrosion resistant polyester, vinyl ester, or epoxy and catalyst system that when properly cured within the tube composite meets the

requirements of ASTM Designations: F1216 and F 1743, the physical properties herein, and those which are to be utilized in the Design of the CIPP for this project. The resin shall produce CIPP which will comply with the structural and chemical resistance requirements of this specification.

<u>907-603.02.3--Design Requirements.</u> The CIPP shall be designed as per ASTM Designation: F 1216, Appendix X.1. The CIPP design shall assume no bonding to the original pipe wall.

The Contractor must have performed long-term testing for flexural creep of the CIPP pipe material. Such testing results are to be used to determine the Long-term, time dependent flexural modulus to be utilized in the product design. This is a performance test of the materials (Tube and Resin) and general workmanship of the installation and curing. A percentage of the instantaneous flexural modulus value, as measured by ASTM Designation: D 790, will be used in design calculations for external buckling. The percentage, or the long-term creep retention value utilized, will be verified by this testing. Values in excess of 50% will not be applied unless substantiated by qualified third party test data. The materials utilized for the contracted project shall be of a quality equal to or better than the materials used in the long-term test with respect to the initial flexural modulus used in Design.

The Enhancement Factor, K, to be used in 'Partially Deteriorated' Design conditions shall be assigned a value of seven (7). Application of Enhancement Factors (K) in excess of seven shall be substantiated through independent test data.

The layers of the cured CIPP shall be uniformly bonded. It shall not be possible to separate any two layers with a probe or point of a knife blade so that the layers separate cleanly or the probe or knife blade moves freely between the layers. If separation of the layers occur during testing of field samples, new samples will be cut from the work. Any reoccurrence may cause rejection of the work.

The cured CIPP pipe material shall conform to the following structural properties.

MINIMUM PHYSICAL PROPERTIES

Property	Test Method	Cured Composite *	Cured Composite **
Modulus of Elasticity	ASTM D 790	250,000 psi	400,000 psi
	(short term)		
Flexural Stress	ASTM D 790	4,000 psi	4,500 psi

- * minimum per ASTM Designation: F 1216
- ** 400,000 psi Resin

The required structural CIPP wall thickness shall be based as a minimum, on the physical properties above and in accordance with the Design Equations in the Appendix of ASTM Designation: F 1216, and the following design parameters:

Design Safety Factor	
Retention Factor for Long-Term Flexural Modulus	
to be used in Design as determined by Long-Term tests	assume 70%
Ovality	vitrified clay - assume 2%
Enhancement Factor, k	Subsection 907-603.02.3
Groundwater Depth, above invert of the existing pipe	0.0 feet
Soil Depth, above crown of the existing pipe	0 to 6 feet
Soil Modulus	Assume sand - 3,000 PSI
Soil Density	assume 120 lbs. per ft^3
Live Load	H20 Highway

Any layers of the tube that are not saturated with resin prior to insertion into the existing pipe shall not be included in the structural CIPP wall thickness computation.

<u>907-603.02.4--Testing Requirements.</u> The CIPP shall meet the chemical resistance requirements of ASTM Designation: F 1216, Appendix X2. CIPP samples for testing shall be of tube and resin system similar to that proposed for actual construction. It is required that CIPP samples with and without plastic coating meet these chemical testing requirements.

Overall, the hydraulic profile shall be maintained as large as possible. The CIPP shall have a minimum of the full flow capacity of the original pipe before rehabilitation. Calculated capacities may be derived using a commonly accepted roughness coefficient for the existing pipe material taking into consideration its age and condition.

The Contractor may be required to submit test results from field installations of the same resin system and tube materials as proposed for the actual installation. These test results must verify that the CIPP physical properties specified have been achieved in previous field applications. Samples for this project shall be made and tested as described in Subsection 907-603.03.3.

The Contractor shall furnish the Engineer with three (3) copies of the manufacturer's certification stating that the materials used meets the requirements of this specifications.

<u>907-603.02.5--Bypassing.</u> The Contractor, when required, shall provide for the flow around the pipe designated for repair. Plugging the line at an existing upstream manhole and pumping the flow into a downstream manhole or adjacent system shall make the bypass. The pump(s) and bypass line(s) shall be of adequate capacity to accommodate the flow.

907-603.03--Construction Requirements.

907-603.03.1--Installation.

<u>907-603.03.1.1--Cleaning.</u> All pipe which is scheduled to be lined-in-place shall be cleaned prior to lining.

Lines designated for cleaning shall be scheduled with the Engineer. Daily logs shall be maintained to record the location of the lines cleaned, the lengths of the lines cleaned, the volume and type of

debris removed from the line, and other pertinent information to assist the Engineer with regard to the condition of the line.

Cleaning shall generally be accomplished from the upstream manhole. If an obstruction prevents cleaning from the upstream manhole, the Contractor shall attempt to remove the obstructions from the downstream manhole. If obstructions prevent the proper cleaning, the Engineer may order a point repair as hereinafter specified.

Acceptable cleaning method are:

<u>Bucket Machine</u>: Rod the line with power driven steel rods of sufficient length, gauge and augers to loosen all solids and materials. Remove the loosened solids by means of a clam-shell bucket or other acceptable means dragged through the line. Brush the line with mechanically driven power brushes. Flush the line with clean water.

Hydraulic Cleaning: High velocity clean water shall be pumped through the line at 800 to 1000 psi. The hydraulic cleaning shall be accomplished with self-propelled nozzles specifically designed to clean and flush the lines. The cleaning shall be accomplished with as many passes as necessary to properly clean the system.

The Contractor shall be responsible for removing and disposing of all debris collected during the cleaning operation in accordance to the applicable solid waste disposal regulations in the State of Mississippi.

The Contractor shall have equipment available to remove roots which have penetrated the pipe.

The selection of the equipment necessary to perform the cleaning operation shall be the sole responsibility of the Contractor. If the equipment fails to properly clean the pipe, the Contractor shall replace the equipment at his own expense.

<u>907-603.03.1.2--Video Inspection.</u> All pipe which is scheduled to be lined-in-place shall be televised after pipe cleaning but prior to lining.

Video inspection shall be performed by experienced personnel trained in locating breaks, obstacles and service connections using closed-circuit color television camera pulled through the selected line. The Contractor's inspector shall view the video during the inspection and shall verbally identify the sources and estimated quantity and location of infiltration into the system.

A written video report log and video CD shall be furnished on each line inspected. The observations are to be recorded on a video inspection report form. This log shall indicate the internal condition of the line, the deviations in line and grade, abnormal conditions of the pipe barrel and joints, and the location and quantity of each source of infiltration and inflow. The distance from the beginning manhole shall be noted for each observation made on the report form. Photographs of each defect shall be made from the video monitor for further study and justification for rehabilitation.

<u>907-603.03.2--Installation.</u> CIPP installation shall be in accordance with ASTM F1216, Section 7, or ASTM F1743, Section 6, with the following modifications.

<u>907-603.03.2.1--Resin Impregnation</u>. The quantity of resin used for tube impregnation shall be sufficient to fill the volume of air voids in the tube with additional allowances for polymerization shrinkage and the potential loss of resin during installation through cracks and irregularities in the original pipe wall.

The Contractor shall designate a location where the tube will be impregnated with resin using distribution rollers and vacuum to thoroughly saturate the tube felt fiber prior to installation. The Contractor shall allow the Engineer to inspect the materials and impregnation procedure.

<u>907-603.03.2.2--Tube Insertion.</u> The tube shall inserted through an existing manhole or other approved access point.

The tube can be installed in the pipe using either inversion or a pull-in method as defined within the relevant ASTM standards and fully extend to the next designated manhole or termination point.

If pulled into place, a power winch or its equivalent should be utilized and care should be exercised not to damage the tube as a result of pull-in friction.

Temperature gauges shall be placed between the tube and the host pipe's invert position to monitor the temperatures during the cure cycle.

Curing shall be accomplished by utilizing hot water under hydrostatic pressure or steam pressure in accordance with the Resin Manufacturer's recommended cure schedule.

A cool-down process shall be conducted that complies with the Resin Manufacturer's specification.

<u>907-603.03.2.3--Sealing at Manholes</u>. If the CIPP fails to make a tight seal at a manhole, the Contractor shall apply a seal at that point. The seal will be of a material compatible with the CIPP material.

<u>907-603.03.2.4--Reinstatement Of Connections.</u> It is the intent of these specifications that lateral connections be re-opened without excavation, utilizing a remotely controlled cutting device, monitored by a closed circuit television.

Contractor shall certify a minimum of two complete functional cutters plus key spare components are on the job site before each installation or are in the immediate area of the jobsite and can be quickly obtained.

Unless otherwise directed by Engineer, all laterals will be reinstated. No additional payment will be made for cutting or excavation for the purpose of reopening connections. The Contractor will be responsible for all costs and liability associated with such cutting/excavation and restoration

work.

Payment will be made under-

<u>907-603.03.3--Field Control.</u> CIPP samples shall be prepared for each installation designated by the Engineer or approximately 20 percent of the project's installations. Pipe physical properties will be tested in accordance with ASTM F1216 or ASTM F1743, Section 8, using either method. The flexural properties must meet or exceed the values listed in this specification, Table 1 of ASTM F1216 or the values submitted to the Engineer for this project's CIPP wall design, whichever is greater.

Wall thickness of samples shall be determined as described in paragraph 8.1.6 of ASTM F1743. The minimum wall thickness at any point shall not be less than 87.5 percent of the submitted minimum design wall thickness based on the design information provided in paragraph 1.4.3 of this specification.

Visual inspection of the CIPP shall be in accordance with ASTM F1743, Section 8.6.

<u>907-603.03.4--Clean-Up</u>. The Contractor shall maintain the project site in a reasonable neat and orderly condition, free from accumulations of waste materials and rubbish during the entire CIPP installation period. Crates, cartons, trash, and flammable waste materials shall be remove from the work areas by the end of each working day. Trash or debris shall not be disposed of by burning on project site.

Upon acceptance of the installation work and testing, the Contractor shall restore the project area affected by the operations to a condition at least equal to that existing prior to the work.

<u>907-603.04--Method of Measurement.</u> Cured-in-place pipe of the sizes designated, completed and accepted, will be measured by the linear foot.

<u>907-603.05--Basis of Payment.</u> Cured-in-place pipe, measured as prescribed above, will be paid for at the contract unit price per linear foot, which shall be full compensation for all labor, tools, equipment, testing, design requirements, bypass construction, video inspection, lateral connections, and all other incidentals necessary to complete the work.

Tayment will be made under.	
907-603-D:" Cured-In-Place Pipe	- per linear foo

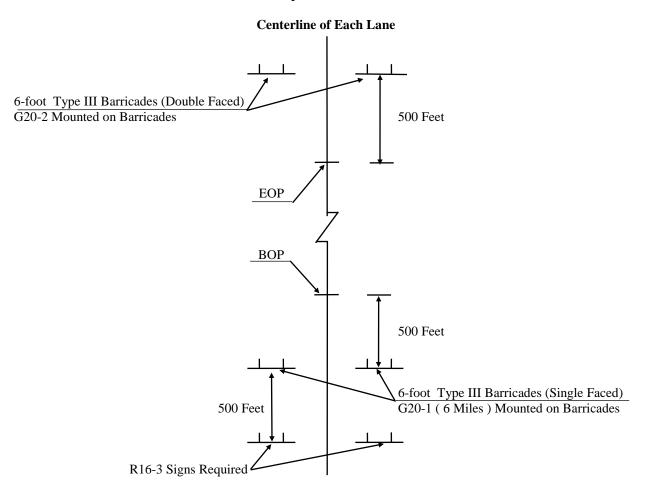
SUPPLEMENT TO SPECIAL PROVISION NO. 907-618-4

DATE: 03/05/2021

PROJECT: SP-0003-01(203) / 108278301 – Jackson County

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

Additional traffic control devices will be required as follows.

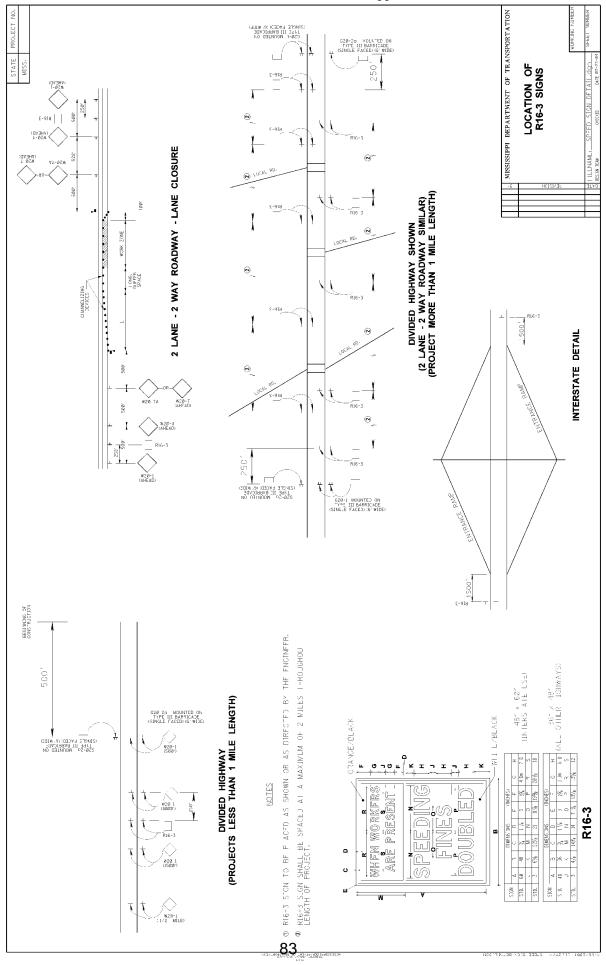


ADDITIONAL TRAFFIC CONTROL SIGNS REQUIRED:

- <u>41</u> W20-1 "AHEAD" signs required. One (1) sign is required at each local road or street entering the project.
- 16 R16-3 "SPEEDING FINES DOUBLED" signs required.

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

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



CODE: (SP)

SPECIAL PROVISION NO. 907-618-4

DATE: 02/01/2018

SUBJECT: Additional Signing Requirements

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

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

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

CODE: (IS)

SPECIAL PROVISION NO. 907-640-1

DATE: 11/15/2017

SUBJECT: Inductive Loop Vehicle Detection Systems

Section 640, Inductive Loop Vehicle Detection Systems, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

<u>907-640.01--Description.</u> Delete the first sentence of Subsection 640.01 on page 578, and substitute the following.

This work consists of furnishing all component materials required to form complete independent vehicle inductive loop detection systems as specified herein.

907-640.02--Materials.

<u>907-640.02.2.4.1--Tuning.</u> Delete the sentence in Subsection 640.02.2.4.1 on page 579, and substitute the following.

The amplifier card shall tune automatically upon the application of power in accordance with NEMA TS 2-2003 v02.06 Section 6.5.2.20.

<u>907-640.02.2.4.2--Modes of Operation.</u> Delete the sentence in Subsection 640.02.2.4.2 on page 579, and substitute the following.

Each amplifier card channel shall be capable of functioning in both presence and pulse mode in accordance with NEMA TS 2-2003 v02.06 Section 6.5.2.17.

<u>907-640.02.2.4.3--Sensitivity Control.</u> Delete the sentence in Subsection 640.02.2.4.3 on page 579, and substitute the following.

Each channel of the amplifier card shall meet NEMA TS 2-2003 v02.06 Section 6.5.2.15 requirements for sensitivity controls.

<u>907-640.02.2.4.4--Crosstalk Avoidance.</u> Delete the sentence in Subsection 640.02.2.4.4 on page 579, and substitute the following.

The amplifier card shall be capable of preventing crosstalk between channels of the same unit in accordance with NEMA TS 2-2003 v02.06 Section 6.5.2.23.

<u>907-640.02.2.4.5--Outputs.</u> Delete the sentence in Subsection 640.02.2.4.5 on page 579, and substitute the following.

Each output device shall conform to NEMA TS 2-2003 v02.06 Section 6.5.2.26 requirements.

<u>907-640.02.2.4.6--Controls and Indicators.</u> Delete the sentence in Subsection 640.02.2.4.6 on page 580, and substitute the following.

All amplifier card controls and indicators shall be in accordance with NEMA TS 2-2003 v02.06 Section 6.5.2.25.

<u>907-640.02.2.4.7--Self-Tracking.</u> Delete the sentence in Subsection 640.02.2.4.7 on page 580, and substitute the following.

The amplifier card shall automatically accommodate after-tuning changes in the loop/lead-in in accordance with NEMA TS 2-2003 v02.06 Section 6.5.2.21.

<u>907-640.02.2.4.10--Loop Detector Amplifier Tests.</u> Delete the sentence in Subsection 640.02.2.4.10 on page 580, and substitute the following.

Each amplifier card shall conform to the performance requirements set forth in NEMA TS 2-2003 v02.06 Section 2.8.

<u>907-640.02.2.4.12--Delay and Extension Timing.</u> Delete the last two sentences in Subsection 640.02.2.4.12 on page 580, and substitute the following.

Detector card delay timing capabilities shall be provided in accordance with NEMA TS 2-2003 v02.06 Section 6.5.2.24.1. Detector card extension timing capabilities shall be provided in accordance with NEMA TS 2-2003 v02.06 Section 6.5.2.24.2.

<u>907-640.03.1.2--Saw Cuts</u>. Delete the second sentence of the second paragraph of Subsection 640.03.1.2 on page 581, and substitute the following.

Where lead-in cable is required to pass through the curbside, it shall be installed in ¾-inch PVC or rigid steel conduit.

<u>907-640.04--Method of Measurement</u>. Delete the first paragraph of Subsection 640.04 on page 583.

Vehicle Loop Assembly and Shielded Cable will be measured by the linear foot computed horizontally along the saw slot, regardless of number of turns, in which the loop wire or shielded cable is installed and will include the loop lead-in to the pull box.

<u>907-640.05--Basis of Payment.</u> Delete the pay items listed on pages 583 and 584, and substitute the following.

907-640-A: Vehicle Loop Assembly - per linear foot
907-640-B: Shielded Cable, AWG __, __ Conductor - per linear foot
907-640-C: Loop Detector Amplifier * - per each

^{*} Additional information may be indicated

CODE: (IS)

SPECIAL PROVISION NO. 907-701-2

DATE: 01/08/2020

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.

<u>907-701.01--General</u>. 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.

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

The Equivalent alkali content for all cement types in this Subsection shall not exceed 0.60%.

<u>907-701.02.2--Replacement by Other Cementitious Materials.</u> 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.

Water-soluble Sulfate Sulfate (SO₄) in sulfate (SO₄) in Cementitious material required Exposure water, ppm soil, % by mass Moderate 0.10 - 0.20 150 - 1.500 Type I cement with one of the following and replacements of cement by weight: Seawater 24.5 - 25.0% Class F fly ash, or 49.5 - 50.0% GGBFS Type II*,** cement Type I cement with a replacement by weight Severe 0.20 - 2.001,500 - 10,000 of 49.5 - 50.0% GGBFS, 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

Table 1- Cementitious Materials for Soluble Sulfate Conditions or Seawater

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

<u>907-701.02.2.2--Portland Cement for Soil Stabilization Exposed to Soluble Sulfate Conditions or Seawater.</u> 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.

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

Type IL - Portland-limestone cement

Type IP - Portland-pozzolan cement

Type IS – Portland blast-furnace slag cement

Blended cement Types IL, 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.

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

^{*} 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.

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.

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

The maximum replacement of blended cement Type IL 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	Water-soluble	Sulfate (SO ₄)	Cementitious material required
Exposure	sulfate (SO ₄) in	in water, ppm	
	soil, % by mass		
Moderate	0.10 - 0.20	150 - 1,500	Type IL (MS)* cement,
and			Type IL cement with one of the following
Seawater			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.

<u>907-701.04.2.2--Blended Cement for Soil Stabilization Exposed to Soluble Sulfate Conditions</u> <u>or Seawater</u>. 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.

CODE: (IS)

SPECIAL PROVISION NO. 907-702-4

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.

<u>907-702.04--Sampling.</u> 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.

<u>907-702.07--Emulsified Asphalt.</u> 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.

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

TABLE V SPECIFICATION FOR FOG SEAL

	Ll	D-7	CH	PF-1	
Test Requirements	Min.	Max.	Min.	Max.	Test Method
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.

CODE: (IS)

SPECIAL PROVISION NO. 907-703-1

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.

<u>907-703.03.2.4--Gradation.</u> In the table in Subsection 703.03.2.4 on page 734, add 100 for the percent passing by weight on the $1\frac{1}{2}$ -inch sieve for Size No. 67 aggregates.

CODE: (IS)

SPECIAL PROVISION NO. 907-705-1

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.

<u>907-705.04--Stone Riprap</u>. 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 preapproved source and be visually approved prior to use.

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.

<u>907-707.02.3--Wood</u>. 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.

<u>907-707.06--Flexible Plastic Gasket for Joining Conduit</u>. 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.

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.

CODE: (IS)

SPECIAL PROVISION NO. 907-720-2

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.

<u>907-720.01.4--Acceptance Procedures.</u> 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.

CODE: (IS)

SPECIAL PROVISION NO. 907-721-2

01/08/2020

DATE:

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.

<u>907-721.06.2--Performance Requirements.</u> 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/fc/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.

- 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 <u>five percent (5%) of total bid</u> 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
	BYSignature
	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 names, titles and business addresses of the executives are as	State of and the follows:
President	Address
Secretary	Address
Treasurer	Address

Revised 1/2016

The following is my (our) itemized proposal.

Overlay approximately 7 miles on US 90 from SR 57 to the West Pascagoula River Bridge, known as State Project No. SP-0003-01(203) / 108278301 in Jackson County.

Line no.	Item Code	Adj Code	Quantity	Units Roadway I	Description[Fixed Unit Price]
0010	202-B114		256	Linear Feet	Removal of Debris and Sand From Pipe, All Sizes
0020	403-A013	(BA1)	20,100	Ton	9.5-mm, HT, Asphalt Pavement
0030	403-A015	(BA1)	13,608	Ton	9.5-mm, ST, Asphalt Pavement
0040	406-D001		108,485	Square Yard	Fine Milling of Bituminous Pavement, All Depths
0050	407-A001	(A2)	40,538	Gallon	Asphalt for Tack Coat
0060	423-A001		11	Mile	Rumble Strips, Ground In
0070	618-A001		1	Lump Sum	Maintenance of Traffic
0080	618-B001		1	Square Feet	Additional Construction Signs (\$10.00)
0090	619-A1001		24	Mile	Temporary Traffic Stripe, Continuous White
0100	619-A2001		26	Mile	Temporary Traffic Stripe, Continuous Yellow
0110	619-A3001		42	Mile	Temporary Traffic Stripe, Skip White
0120	619-A5001		50,000	Linear Feet	Temporary Traffic Stripe, Detail
0130	619-A6001		9,301	Square Feet	Temporary Traffic Stripe, Legend
0140	619-A6002		23,408	Linear Feet	Temporary Traffic Stripe, Legend
0150	620-A001		1	Lump Sum	Mobilization
0160	626-A001		20	Mile	6" Thermoplastic Double Drop Traffic Stripe, Skip White
0170	626-B002		3	Mile	6" Thermoplastic Double Drop Traffic Stripe, Continuous White
0180	626-C002		11	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous White
0190	626-E001		9	Mile	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
0200	626-F001		10	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous Yellow
0210	626-G002		34,886	Linear Feet	Thermoplastic Detail Stripe, White
0220	626-G003		18,124	Linear Feet	Thermoplastic Detail Stripe, Yellow
0230	626-H004		4,651	Square Feet	Thermoplastic Legend, White
0240	626-H005		11,704	Linear Feet	Thermoplastic Legend, White
0250	627-J001		572	Each	Two-Way Clear Reflective High Performance Raised Markers
0260	627-K001		3,380	Each	Red-Clear Reflective High Performance Raised Markers
0270	627-L001		1,849	Each	Two-Way Yellow Reflective High Performance Raised Markers
0280	907-411-A001	(BA1)	12,060	Ton	Ultra Thin Asphalt Pavement
0290	907-603-D003	(S)	128	Linear Feet	24" Cured-In-Place Pipe
0300	907-603-D011	(S)	128	Linear Feet	36" Cured-In-Place Pipe
0310	907-603-V001		256	Linear Feet	Video Pipe Inspection, All Sizes
0320	907-640-A001		1,953	Linear Feet	Vehicle Loop Assemblies
				ERNATE GROUP	
0330	304-D001	(GT)	3,336	Ton	Granular Material, Crushed Concrete
0340	304-F002	(GT)	ALT 3,336	ERNATE GROUP Ton	YAA NUMBER 2 Size 610 Crushed Stone Base
03 10	2011002	(31)	5,550	1011	ELECTION CHANGE CHOICE DADE

Section 905 SP-0003-01(203)/ 108278301000 Proposal(Sheet 2-2) Jackson

Line no.	Item Code	Adj Code	Quantity	Units	Description[Fixed Unit Price]
			AL	ΓERNATE	GROUP AA NUMBER 3
0350	304-F003	(GT)	3,336	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.

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COMBINATION BID PROPOSAL

* of Subsection 102.11 on the following contracts: This proposal is tendered as one part of a Combination Bid Proposal utilizing option * Option to be shown as either (a), (b), or (c).

County					
Project No.	6.	7.	8.	9.	10.
County					
Project No.	1.	2.	3.	.4	5.

- (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)

SECTION 905 - COMBINATION BID PROPOSAL (Continued)

(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 \$_

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

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 <u>DOES</u> <u>N</u>	OT constitute <u>APPROVAL</u> of the subcontracts.
	(Individual or Firm)	(Address)
sul acc	bcontracts, if any, equal to or in exces	OT preclude subsequent subcontracts. Subsequent s of fifty thousand dollars (\$50,000.00) will be in d and adopted by the Mississippi State Board of
	Contra	ctor

CERTIFICATION

I, ,
(Name of person signing bid)
individually, and in my capacity asof
(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. SP-0003-01(203)/ 108278301000
In Jackson 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; no
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 SP-0003-01(203)/ 108278301000

LOCATED IN THE COUNTY(IES) OF Jackson

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.

Witne	ess our signatures this the	day of
Contractor(s)		
Ву		MISSISSIPPI TRANSPORTATION COMMISSION
Title	By	
Signed and sealed in the presence of (names and addresses of witnesses)		Executive Director
		Secretary to the Commission
		Commission in session on the day of, Page No
Revised 8/06/2003		

S E C T I O N 9 0 3 PERFORMANCE AND PAYMENT BOND

CONTRACT BOND FOR: SP-0003-01(203)/ 108278301000

LOCATED IN THE COUNTY(IES) OF: <u>Jackson</u>

STATE OF MISSISSIPPI, COUNTY OF HINDS

Know all men by these pr	resents: that we,
	(Contractor)
	Principal, a
residing at	in the State of
and	
residing at	(Surety) 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 an	d 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 presen	ts.
The conditions of this bo	nd are such, that whereas the said
principal, has (have) ente	red 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 a	s mentioned in said contract in accordance with the Contract Documents therefor, on file in the
	Department of Transportation, Jackson, Mississippi.
Now therefore, if the abo	
singular the terms, cover observed, done, kept and material and equipment	Il things shall stand to and abide by and well and truly observe, do keep and perform all and nants, conditions, guarantees and agreements in said contract, contained on his (their) part to be a performed and each of them, at the time and in the manner and form and furnish all of the specified in said contract in strict accordance with the terms of said contract which said plans.
	of provisions are included in and form a part of said contract and shall maintain the said work all completion and acceptance as specified in Subsection 109.11 of the approved specifications,
and save harmless said N	Mississippi Transportation Commission from any loss or damage arising out of or occasioned by
	or criminal act, overcharge, fraud, or any other loss or damage whatsoever, on the part of said
	agents, servants, or employees in the performance of said work or in any manner connected
	iable and responsible in a civil action instituted by the State at the instance of the Mississippi ion or any officer of the State authorized in such cases, for double any amount in money or
	ose or be overcharged or otherwise defrauded of, by reason of wrongful or criminal act, if any, of
	eir) 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,
	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
Ву	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 PRE	SENTS, that we		
	, <u> </u>	Contractor	
		Address	
		City, State ZIP	
As principal, hereinafter called the Pr	rincipal, and	Surety	
a corporation duly organized under the		·	
as Surety, hereinafter called the Sure	ty, are held and firmly	bound unto _ State of Mississip	pi, Jackson, Mississippi
As Obligee, hereinafter called Oblige	ee, in the sum of Five	Per Cent (5%) of Amount Bid	
	Dollars(\$)	
for the payment of which sum will a executors, administrators, successors			
Pascagoula River Bridge, known as NOW THEREFORE, the condition of said Principal will, within the time reperformance of the terms and condition will pay unto the Obligee the different which the Obligee legally contracts which in no event shall liability hereunder.	f this obligation is such quired, enter into a for ons of the contract, the nce in money between with another party to pe er exceed the penal sun	that if the aforesaid Principal sharmal contract and give a good and in this obligation to be void; other the amount of the bid of the said erform the work if the latter amount hereof.	Il be awarded the contract, the I sufficient bond to secure the wise the Principal and Surety Principal and the amount for
	(Principal)		(Seal)
	Ву	7:(Title)	
(Witness)	(Name)	(Title)	
	(Surety)	(Seal)	
(Witness)	(Attorney-in-Fac	By:	
	(MS Agent)		
	Mississ	ippi Insurance ID Number	

														-	Jar	TOS.	Jackson		ı	
<u> </u>	LINE NUMBERS	JAN FEB	MAR	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER OCTOBER	CTOBER NOV	OV DEC JAN FEB	N FEB MAR	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER OC	OCTOBER NO	NOV DEC
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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.