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09 -

SM No. CMP7013640041

# PROPOSAL AND CONTRACT DOCUMENTS

## FOR THE CONSTRUCTION OF

09

Scrub Seal & Thin Lift approximately 4 miles of SR 13 from Bowen Road to East Street, known as State Project No. MP-7013-64(004) /306646301 in Simpson County.

Project Completion: 45 Working Days

## (STATE DELEGATED)

## NOTICE

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

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

## **SECTION 900**

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

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#### **SECTION 901 - ADVERTISEMENT**

Electronic bids will be received by the Mississippi Transportation Commission at <u>10:00 o'clock</u> <u>A.M., Tuesday, July 23, 2019</u>, from the Bid Express Service and shortly thereafter publicly read on the Sixth Floor for:

Scrub Seal & Thin Lift approximately 4 miles of SR 13 from Bowen Road to East Street, known as State Project No. MP-7013-64(004) /306646301 in Simpson 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.

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

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

Plans must be purchased online at <<u>https://shopmdot.ms.gov></u>. Costs of plans will be on a per sheet basis plus a small convenience fee. If you have any questions, you can contact the MDOT Plans Print Shop at (601) 359-7460, or e-mail at plans@mdot.state.ms.us. Plans will be shipped upon receipt of payment. <u>Cash or checks will not be accepted as payment</u>.

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

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

MELINDA L. MCGRATH EXECUTIVE DIRECTOR

#### **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.

#### **SECTION 904 - NOTICE TO BIDDERS NO. 3**

CODE: (SP)

DATE: 01/17/2017

#### SUBJECT: Final Clean-Up

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

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

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

#### **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 7<sup>th</sup> 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. 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. 516**

CODE: (IS)

#### DATE: 11/28/2017

### SUBJECT: Errata and Modifications to the 2017 Standard Specifications

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

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

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#### **SECTION 904 - NOTICE TO BIDDERS NO. 1206**

CODE: (SP)

#### DATE: 10/16/2018

#### SUBJECT: MASH Compliant Devices

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

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

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

#### **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: (SP)

#### 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 <u>will</u> <u>not</u> 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: (SP)

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.

#### **SECTION 904 - NOTICE TO BIDDERS NO. 1689**

CODE: (SP)

DATE: 06/07/2019

**SUBJECT:** Contract Time

**PROJECT:** MP-7013-64(004) / 306646301 – Simpson 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 <u>August 13, 2019</u> and the effective date of the Notice to Proceed / Beginning of Contract Time will be simultaneous with the execution of the contract.

**<u>45</u>** Working Days have been allowed for the completion of work on this project.

#### **SECTION 904 – NOTICE TO BIDDERS NO. 1690**

CODE: (SP)

DATE: 06/07/2019

#### SUBJECT: Additional Scrub Seal Requirements

#### PROJECT: MP-7013-64(004) / 306646301 -- Simpson County

Bidders are hereby advised of the following restrictions on the above captioned project.

In Subsection 907-414.03.4, the minimum required number of pneumatic rollers weighing at least five (5) tons each is hereby amended from two (2) to three (3).

#### **SPECIAL PROVISION NO. 907-102-2**

CODE: (IS)

DATE: 11/22/2017

#### SUBJECT: Bidding Requirements and Conditions

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

<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 <a href="http://bidx.com">http://bidx.com</a>.

#### **SPECIAL PROVISION NO. 907-103-2**

CODE: (SP)

DATE: 06/22/2017

#### SUBJECT: Award and Execution of Contract

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

<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.

#### **SPECIAL PROVISION NO. 907-109-1**

CODE: (SP)

DATE: 05/08/2019

#### **SUBJECT:** Measurement and Payment

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

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

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

#### **SPECIAL PROVISION NO. 907-411-1**

CODE: (SP)

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.

#### **SPECIAL PROVISION NO. 907-414-1**

CODE: (SP)

#### DATE: 05/02/2017

#### SUBJECT: Polymer Modified Asphalt Rejuvenating Scrub Seal

Section 907-414, Scrub Seal, is hereby added to and made a part of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as follows.

#### SECTION 907-414 -- POLYMER MODIFIED ASPHALT REJUVENATING SCRUB SEAL

<u>907-414.01--Description</u>. This work shall consist of, but not be limited to, furnishing all labor, materials, equipment and transportation for the application of a polymer modified asphalt rejuvenating scrub seal. All ingredients shall be properly proportioned, mixed, and spread on the paved surface in accordance with this Specification and as directed by the Engineer.

#### <u>907-414.02--Materials.</u>

<u>907-414.02.1--Aggregate</u>. Unless otherwise noted, the aggregate material shall be one of the seal aggregate cover materials listed in and meeting the requirements of Subsection 703.14 of the Standard Specifications.

<u>907-414.02.2--Asphalt Emulsion for Scrub Seal.</u> The asphalt emulsion for scrub seal shall meet the requirements of the following table and shall be composed of a polymer modifier, a petroleum based rejuvenating agent, and asphalt.

Test on Emulsion	Method	Specification					
		(min)	(max)				
Viscosity @77 (SFS)	AASHTO T 59	50	350				
Residue, w% <sup>(1)</sup>	AASHTO T 59	60	-				
Storage Stability, 24 h, %	AASHTO T 59	-	1.0				
Sieve, w%	AASHTO T 59		0.1				
Oil distillate, w%	AASHTO T 59		0.5				
Test on Residue <sup>(1)</sup>							
Viscosity @ 140°F, P	AASHTO T 202	-	3000				
Penetration @ 4°C (39.2°F),	AASHTO T 59	30	-				
200 g, 60 sec							
<b>Test on Polymer Modifier</b>							
Swelling in rejuvenating	ASTM D 471 <sup>(2)</sup>	-	40%				
agent, %; 48 hours exposure @ 104°F	Modified		intact film				
Test on Rejuvenating Agent							
Flash point, COC, °F	AASHTO T 48	380	-				
Viscosity @ 140°F, CST	AASHTO T 201	50	175				
Saturate, % by weight	ASTM D 2007	-	30				
Asphaltenes	ASTM D 2007	-	1.0				
Test on Residue							
Weight Change, %			6.5				
Viscosity Ratio			3				

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- (1) Exception to AASHTO T59: Bring the temperature on the lower thermometer slowly to 350°F plus or minus 10°F. Maintain at this temperature for 20 minutes. Complete total distillation in 60 plus or minus 5 minutes from first application of heat.
- (2) Polymer Modifier Testing: Suitable substrate for film formation shall be polyethylene boards, silicone rubber sheeting, glass, or any substrate which produces a cured film of uniform cross-section. Polymer film shall be prepared from latex as follows:

Resistance to Swelling: Polymer films shall be formed by using a 50 mil drawdown bar and drawing down 50 mils of the latex on polyethylene boards. Films shall be cured for 14 days at 75°F and 50% humidity. Samples for resistance to swelling in rejuvenating agent shall be 1" by 2" rectangles cut from the cured film. Cut at least 3 specimens for each sample to be tested for swelling. Fill 3- 8 oz ointment tins with at least a  $\frac{1}{2}$ " deep of rejuvenating agent. Swelling samples shall be weighed and then placed in the ointment tins on top of the rejuvenating agent. Then, add at least another  $\frac{1}{2}$ " deep of rejuvenating agent over each of the latex samples. The ointment tins shall be covered and placed in an oven at 104°F for the specified 48 hours +/- 15 minutes. The ointment tins are allowed to cool to 75°F and then the latex films are removed from the tins. Unabsorbed rejuvenating agent is removed from the intact latex film by scraping with a rubber policeman and blotting with paper towels. If the latex film does not remain intact during removal from the tins or while removing the unabsorbed rejuvenating agent the sample shall be rejected. After the rejuvenating agent is removed from the sample shall be rejected as weight increase of the polymer film; report mass increase as a percent by weight of the original latex film mass upon exposure of films to the rejuvenating agent.

When a fog seal is required, the asphalt emulsion shall meet the requirements of Subsection 702.07.

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<u>907-414.03--Construction Requirements.</u> The attached sign drawings shall be used during scrub seal operations. Prior to any sealing operation, the rectangular "Loose Rock" signs shall be installed and remain in place until all sealing operations are complete. Prior to any daily sealing operation, the portable "Loose Rock" signs shall be installed in accordance with the attached drawings. Portable signs shall be installed and remain in place on a daily basis in the active sealing area. Payment for signs shown on the sign detail drawings shall be made under pay item no. 618-A, Maintenance of Traffic.

<u>907-414.03.1--Preparation</u>. The work shall be done in the following order: Prepare the pavement surface; apply the asphalt emulsion for scrub seal and scrub the applied emulsion with a scrub broom as specified herein; apply the aggregate, roll the aggregate, broom the aggregate with a secondary broom when specified; and sweep up and dispose of excess aggregate. Excess aggregate shall be removed from the project unless otherwise approved by the Engineer.

Prior to the scrub seal operation, the Contractor shall remove any and all vegetation within the limits of the scrub seal installation. The use of herbicides will be allowed at the discretion of the Engineer.

If used, the herbicide shall be applied at least 10 days prior to the scrub seal operation, or as directed by the manufacturer of the approved herbicide. The application of the herbicide shall be performed in accordance with all applicable regulations. Any and all fines or clean-up costs for unlawful misuse or discarding of herbicides shall be the sole responsibility of the Contractor. Mixtures and spread rates for the herbicides shall be determined by the manufacturer's specifications. Wash down of equipment or discarding of herbicides shall not enter catch basins or positive drainage facilities.

Prior to the scrub seal operation, the Contractor shall remove all existing thermoplastic striping, thermoplastic legends and raised pavement markers within the scrub seal limits. Removal shall be performed to the satisfaction of the Engineer.

Prior to the scrub seal operation, all drain inlet covers, monument covers, and all other utility covers shall be protected from the Contractor's scrub seal operations by applying a sheet of plastic over the exposed facilities, or other methods approved by the Engineer. All traces of plastic, residual emulsion and aggregate shall be removed from covered objects after the application of the scrub seal and/or prior to final inspection of the project.

Immediately prior to the scrub sealing operations, the Contractor shall sweep the entire pavement surface.

<u>907-414.03.2--Application</u>. The scrub seal shall be applied from edge of pavement to edge of pavement. The edges of the scrub seal application shall be maintained in a neat and uniform line. Scrub seal shall not be applied on concrete gutters or pads unless directed by the Engineer.

The application of the asphalt emulsion for scrub seal shall be applied only when the ambient and pavement temperatures are above 70°F.

The asphalt emulsion for scrub seal shall be applied with a distributor truck at the following target rates. The actual emulsion application rate shall be determined from the surface demands and aggregate used. Any adjustments of the application rate shall be approved by the Engineer, and manufacturer's representative if necessary.

The optimum application rate of bituminous material is dependent on the chosen seal aggregate gradation as well as the condition of the pavement in which the bituminous surface treatment is to be applied. The application rate of the bituminous material may be adjusted by the Engineer based on field conditions at the time of construction. Following are target application rates for bituminous material.

Seal Aggregate Gradation	Bituminous Material	Target Application Rate (gal/yd <sup>2</sup> )	Tolerance		
Size No. 7	Emulsified Asphalt	0.33	<u>+</u> 0.03		
Size No. 8 or 89	Emulsified Asphalt	0.30	<u>+</u> 0.03		

Note: Emulsified Asphalt shall not be diluted. A sample of emulsified asphalt should be obtained from the Contractor's distributor on the first day of production and thereafter at a frequency not to exceed 1 sample per 50,000 gallons. Because the time between sampling of the emulsified asphalt and the testing of the material can affect the test results, samples should be sent to the MDOT Central Lab for testing as soon as possible.

The asphalt emulsion for scrub seal temperature when applied shall be a minimum of 140° to 180°F. For smaller areas, the emulsion may be applied with a wand. The emulsion shall be immediately broomed to fill cracks and voids. The emulsion scrub broom shall be as described below.

Immediately following the application of the emulsion to the road surface, the material shall be scrubbed with a scrub broom for the purpose of forcing the emulsion into the existing surface and distributing the emulsion evenly over variable road surface contours.

The application of the asphalt emulsion for scrub seal and scrub broom operation shall cease 40 feet prior to the end of the application. The remaining asphalt emulsion for scrub seal shall be dragged out by the scrub broom, and the remaining emulsified material required to complete the pass shall be applied only by the distributor truck, at the specified rate.

Immediately following the scrubbing of emulsion, aggregate shall be applied at the following application rates.

Size 7 Slag, Stone, Gravel or Expanded Clay	$= 0.30 \pm 0.02 \text{ ft}^3 / \text{yd}^2$
Size 8 Expanded Clay	$= 0.25 \pm 0.02 \text{ ft}^3 / \text{yd}^2$
Size 89 Slag, Stone, or Gravel	$= 0.25 \pm 0.02 \text{ ft}^3 / \text{yd}^2$

The actual aggregate application rate shall be as required by the surface demands and the emulsion used. The rate shall be adjusted, within the specified limit, up or down so that no "bleed through" occurs during rolling.

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During the first day of production and at least once a week thereafter, the application rate of the aggregate shall be verified by the Department to assure that the appropriate application rate of the aggregate is applied. The rate can be verified by placing a tarp of at least  $1.0 \text{ yd}^2$  area on the roadway surface. After allowing the aggregate spreader to pass over the tarp, the aggregate on the tarp should be collected and weighed to determine the weight of aggregate. The measured weight should then be compared to the target weight calculated using the following formula.

 $W = 0.85(G_{sb})(U_w)(R)(A)(e)$ 

Where:

W = target weight of aggregate in lbs.

 $G_{sb}$  = bulk specific gravity of aggregate

 $U_w$  = Unit weight of water at 70°F = 62.3 lbs./ft<sup>3</sup>

- R = target application rate in  $ft^3/yd^2$
- A = area of tarp in  $yd^2$
- e = air voids in loose aggregate = 0.4

 $G_{sb}$  for gravel = 2.650  $G_{sb}$  for limestone = 2.700

Note: Bulk specific gravities of expanded clay and steel slag should be obtained from the seal aggregate supplier.

Upon determining the target weight, it should be compared to the actual measured weight. If the difference in the target weight and the actual measured weight is over 2.5 pounds, the aggregate distributor should be adjusted such that the spread rate is within the above tolerance. The above procedure shall be repeated until the spread rate is within the allowable tolerance.

If at any point during production, excessive aggregate is noted, the aggregate application rate should be verified and the spread rate adjusted. The intent is to minimize the amount of excess aggregate. Excess aggregate removed from the roadway surface after brooming shall be removed from the job site and should not be reused in the aggregate operation.

The dry aggregate shall be spread uniformly to cover the bituminous material with the quantity of mineral aggregate specified by the Engineer. All deficient areas shall be covered by additional material. All excess cover material shall be removed from the surface and stockpiled or used as directed.

A minimum of two self-propelled pneumatic-tired rollers shall be used for the required rolling of the aggregate. The pneumatic-tired rollers shall be in good working condition and actively rolling at all times during the scrub seal operation. The pneumatic-tired rollers shall be minimum 5-ton rollers. The pneumatic-tired rollers shall be operated in such a manner to prevent the dislodging of newly applied aggregate.

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If specified, a fog seal will be placed at a rate of 0.11 gallons per square yard, or as directed by the Project Engineer. The fog seal shall not be placed until after final brooming.

<u>907-414.03.3--Stockpile Sites.</u> Sites for stockpiles of materials shall be grubbed and cleaned prior to storing the aggregates, and the ground shall be firm, smooth, and well drained.

<u>907-414.03.4--Equipment.</u> The following equipment shall be used for the scrub-seal operations.

- A. <u>Asphalt Distributor</u>. The asphalt distributor for application of the emulsion shall have a full circulation spray bar that is adjustable to at least sixteen feet (16') wide in two (2) feet increments and capable of heating and circulating the emulsion simultaneously. It must have computerized rate control for adjusting and controlling the application from the cab within 0.01 gallons per square yard increments. The distributor shall also be equipped with a volume measuring device and a thermometer for measuring the emulsion temperature in the tank.
- B. <u>Scrub Broom</u>. A scrub broom as described herein shall be used to scrub the emulsion after application. The scrub broom frame shall be constructed of metal. The scrub broom shall be attached to and pulled by the distributor truck. The scrub broom must be equipped with a means of raising and lowering the scrub broom at desired points. It shall be towable in the elevated position to the next area of construction. The weight of the broom assembly shall be such that it does not squeegee the emulsion off the roadway surface.

The main body of the scrub broom shall have a frame size as shown in the drawing at the end of this special provision. The nearest and furthest members, paralleling the back of the distributor truck, and diagonal members shall be equipped with street brooms. The leading member and the trailing member shall have broom heads angled at 10 to 15 degrees off the centerline of the supporting member. The diagonal members shall have broom heads attached in line with the centerline of the supporting member. Each individual street broom attached to the scrub broom assembly shall be 3.5 inches wide x 6.5 inches high x 16 inches long and have stiff nylon bristles. Bristle height is to be maintained at a minimum of five inches (5"). The scrub broom shall be equipped with hinged wing assemblies attached to the main body not to exceed 4.5 feet per side, with diagonals and equipped with street brooms. The purpose of the maximum rigid frame width and the hinged wing extensions is not only for maximum width of 16 feet but to maintain the scrubbing process evenly as contours and cross-sections change across the existing road surface.

C. <u>Aggregate Spreader</u>. A self-propelled aggregate spreader with front discharge that can evenly distribute aggregate.

- D. <u>Roller.</u> A minimum of two (2) pneumatic rollers weighing at least five (5) tons each.
- E. Power Broom. Two (2) mechanically powered kick-brooms or vacuum type brooms.

<u>907-414.03.5--Opening to Traffic.</u> Unless otherwise advised, the Contractor's operations shall be schedule such that all lanes of traffic are open to the traveling public at the end of each day. Considering time needed for curing and preparation prior to opening traffic, the Contractor should not apply bituminous material two (2) hours before dusk, or longer, to allow sufficient time for bonding of the aggregates.

After the scrub seal has been rolled and the bituminous material has cured a minimum of one (1) hour, or longer if necessary to sufficiently hold the aggregate in place, the Contractor shall perform an initial brooming operation consisting of lightly sweeping excess aggregate material from the surface. After the initial brooming has been completed, public traffic will be allowed on the roadway.

Immediately the next morning, a final brooming shall be performed to remove any remaining excess aggregate material from the previous day's seal operation.

<u>907-414.04--Method of Measurement.</u> Scrub seal shall be measured by the square yard.

Accepted quantities for asphalt for fog seal will be measured by the gallon as prescribed in Subsection 109.01. Unless otherwise specified, distributor tank measurement will be used. The volume of material over five percent (5%) above the quantity ordered for each shot will be deducted from measured quantities, except that 15 percent will be allowed for irregular areas where hand spraying is necessary.

<u>907-414.05--Basis of Payment.</u> Scrub seal, measured as prescribed above, will be paid for at the contract bid price per square yard, which shall be full compensation for furnishing all labor, materials, equipment, temporary markers, vegetation removal, cleaning of the surface, presweeping, post-sweeping, doing all the work involved in mixing, applying and protecting the polymer modified asphaltic rejuvenating scrub seal, and all incidentals necessary to complete the work.

Asphalt for fog seal will be paid for at the contract unit price per gallon, which shall be full compensation for furnishing all labor, materials, equipment, applying and protecting the fog seal, and all incidentals necessary to complete the work.

Payment will be made under:

907-414-A: Scrub Seal

907-414-B: Asphalt for Fog Seal

- per square yard

- per gallon



Scrub Broom



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"LOOSE ROCK" D; "NEXT XX MILES" D; "TRAVEL AT OWN RISK" D; Table of letter and object lefts.

L 22.8	<b>0</b> 27	.6	<b>0</b> 33	.0	<b>S</b> 38.3	3 <b>E</b> 43	3.7	<b>R</b> 53	.4	<b>0</b> 58.	5 6	3.9	<b>K</b> 69	.0							
<b>n</b> 17.1	<b>E</b> 22.	5	<b>X</b> 27.	3	<b>T</b> 32.1	<b>X</b> 41	.7	<b>X</b> 46.	9	<b>N</b> 56.9	<b>I</b> 63	5.0	L 65.	3	<b>E</b> 70.	1	<b>S</b> 74.	9			
<b>T</b> 3.2	<b>R</b> 8.0	<b>A</b> 13	3.2	<b>V</b> 18	8.6 Z	24.2	L 29	9.0	<b>A</b> 38	.6 4	<b>r</b> 14.0	<b>0</b> 5	3.7	<b>W</b> 59	9.0	N 6	l 5.4	<b>R</b> 75.4	l 80.9	<b>S</b> 83.2	<b>K</b> 88.6



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48.0" across sides 1.9" Radius, 0.8" Border, 0.5" Indent, Black on Orange; "LOOSE" D; "ROCK" D; "35 MPH" D;

Table of letter and object lefts.

<b>L</b>	<b>0</b>	<b>0</b>	<b>S</b>	<b>E</b>
20.9	25.7	31.0	36.4	41.8
<b>R</b>	<b>0</b>	<b>C</b>	<b>K</b>	
23.3	28.4	33.8	38.9	
<b>3</b>	<b>5</b>	M	<b>P</b>	<b>H</b>
17.7	23.1	33.1	39.2	44.6

#### **SPECIAL PROVISION NO. 907-619-6**

CODE: (SP)

#### DATE: 03/21/2018

#### **SUBJECT:** Temporary Portable Rumble Strips

Section 619, Traffic Control for Construction Zones, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-619.02--Materials. After Subsection 619.02.15 on page 472, add the following.

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

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

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

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

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

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

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

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

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

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

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

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

907-619-B: Temporary Portable Rumble Strips

- per linear foot



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**Detail of Temporary Portable Rumble Strips** 

#### **SPECIAL PROVISION NO. 907-624-1**

CODE: (SP)

DATE: 01/17/2017

#### SUBJECT: Inverted Profile Thermoplastic Traffic Stripe

Section 907-624, Inverted Profile Thermoplastic Traffic Stripe, is hereby added to and made part of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as follows.

<u>907-624.01--Description</u>. Inverted profile thermoplastic pavement markings consists of furnishing materials and placing inverted profile thermoplastic pavement markings in reasonably close conformity with these specifications and the details shown on the plans or established.

Inverted profile thermoplastic pavement markings, high contract, shall consist of furnishing materials and placing inverted profile thermoplastic pavement markings over a black thermoplastic pavement marking in order to enhance the marking's visibility.

#### 907-624.02--Materials.

<u>907-624.02.1--General.</u> The inverted profile thermoplastic marking material shall consist of an alkyd/maleic or hydrocarbon based formulation. The material shall be so manufactured as to be applied to the pavement in a molten form, with internal and surface application of glass spheres, and upon cooling to normal pavement temperature, shall produce an adherent, reflectorized pavement marking of specified thickness and width, capable of resisting deformation.

Materials shall be obtained from approved sources as listed on the Department's "List of Approved Sources" for Inverted Profile Thermoplastic Pavement Marking Materials. The material shall not scorch, break down, discolor, or deteriorate when held at the application temperature for four hours or when reheated four times to the application temperature. Temperature-vs-viscosity characteristics of the plastic material shall remain constant when reheated four times, and shall be the same from batch to batch.

The thermoplastic material shall be a product especially compounded for pavement markings. The pavement markings shall maintain their original dimension and shall not smear or spread under normal traffic at temperatures below 140°F. The markings shall have a uniform cross section. Pigment shall be evenly dispersed throughout its thickness. The exposed surface shall be free from tack and shall not be slippery when wet. The material shall not lift from pavement in freezing weather. Cold ductility of the material shall be such as to permit normal movement with the pavement surface without chipping or cracking.

Black thermoplastic compound for the placement of inverted profile thermoplastic pavement markings, high contract, shall consist of a hydrocarbon or alkyd/maleic based formulation.
The manufacturers of the thermoplastic compound, glass beads and epoxy primer sealer shall furnish to the Engineer three copies of certified test reports showing results of all tests specified herein and shall further certify that the materials meet all requirements. The Contractor shall provide the warranty as specified herein to the Engineer.

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<u>907-624.02.2--Inverted Profile Thermoplastic Material.</u> The thermoplastic material shall consist of homogeneously mixed pigments, fillers, resins and glass beads, and shall be available in both white and yellow. The material shall be free from all skins, dirt, and foreign objects. Materials shall conform to AASHTO M 249 with the following modifications:

<u>907-624.02.2.1--Intermixed Glass Beads.</u> The thermoplastic material shall contain a minimum of 40 percent Class H glass beads by weight. Class H glass beads shall meet the requirements of ASTM D 1155, and shall be coated with an adhesion promoting coating which shall also provide moisture resistance as tested by AASHTO M 247, Section 4.4.2. Class H beads shall have a minimum of 70 percent true spheres and the +20 sieve shall be tested visually.

The gradation of the Class H beads shall meet the following:

<u>U. S. Standard Sieve</u>	<u>% Passing</u>
12	100
14	95 - 100
16	80 - 100
18	30 - 100
20	15 - 100
30	10 - 100
50	0 - 50
100	0 - 5

<u>907-624.02.2.2--Binder Content.</u> The binder content of the thermoplastic material shall be 19 percent minimum.

<u>907-624.02.2.3--Titanium Dioxide.</u> The titanium dioxide shall meet ASTM D 476, Type II, Rutile grade - 10 percent minimum titanium content.

<u>907-624.02.2.4--Yellow Pigment.</u> The yellow pigment for the yellow thermoplastic material shall be five (5) percent minimum.

<u>907-624.02.2.5--Specific Gravity.</u> The specific gravity of the thermoplastic pavement marking material shall not exceed 2.35.

# 907-624.02.2.6--Flow Characteristics.

<u>907-624.02.2.6.1--Flowability</u>. After heating the thermoplastic material for four (4) hours  $\pm 5$  minutes at 425  $\pm 3^{\circ}$ F and testing flowability, the white thermoplastic shall have a maximum percent residue of 22 percent and the yellow thermoplastic shall have a maximum residue of 24 percent.

<u>907-624.02.2.6.2--Flow Resistance.</u> The material shall exhibit a maximum flow of 10%. The material's ability to form ribs on the markings shall be evaluated by casting a disc of material approximately 3.5 inches wide by 1.0 inch long by and 0.60 inch deep. After the material is cooled to ambient temperature, measure the exact height. The material shall then be stored at 190°F for four (4) hours. After the material is cooled to ambient temperature, re-measure the exact height and express the flow resistance as a flow percentage.

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<u>907-624.02.2.7--Reflectivity.</u> The initial reflectance for the in-place marking shall have a minimum reflectance value of 450 mcd/fc/sq. ft. for white and 350 mcd/fc/sq. ft. for yellow, when measured with a Mirolux Ultra 30 retroreflectometer, or approved equal.

<u>907-624.02.2.8--Wet Reflectivity</u>. The initial reflectance for the in-place marking when wet shall have a minimum reflectance value of 200 mcd/fc/sq. ft. for white and 175 mcd/fc/sq. ft. for yellow, when measured with an approved retroreflectometer. The stripe shall be wetted utilizing a pump type sprayer for five (5) seconds. After 30 seconds, place the retroreflectometer on the stripe and measure the reflectance.

<u>907-624.02.2.9--Inverted Profile</u>. The thermoplastic pavement marking material shall be applied to have individual profiles having a minimum height of 0.140 inches with the recessed inverted profiles having a thickness of 0.025 to 0.050 inches. The profiles shall be well defined, spaced approximately one (1) inch apart, and not excessively run back together.

# <u>907-624.02.3--Black Pavement Marking Material for High Contrast Inverted Profile</u> <u>Pavement Markings.</u>

<u>907-624.02.3.1--General.</u> In the molten state, the material shall not give off fumes that are toxic or otherwise injurious to persons or property. The manufacturer shall provide material safety data sheets for the product.

The temperature versus viscosity characteristic of the plastic material shall remain constant and the material shall not deteriorate in any manner during three reheating processes. There shall be no obvious change in color of the material as a result of up to three reheatings, or in maintaining the material at application temperature up to an aggregate time of four (4) hours, or from batch to batch. The maximum elapsed time after application at which normal traffic will leave no impression or imprint on the new stripe shall be 30 seconds when the air and road surface temperature is approximately  $68 \pm 5^{\circ}$ F. The applied stripe shall remain free from tack and shall not lift from the pavement under normal traffic conditions within a road temperature range of -20°F to 150°F. The stripe shall maintain its original dimensions and placement. Cold ductility of the material shall be such as to permit normal dimensional distortion as a result of tire impact within the temperature range specified.

The material shall provide a stripe that has a uniform thickness throughout its cross section.

<u>907-624.02.3.2--Binder.</u> The binder shall be hydrocarbon or alkyd/maleic based. The binder shall consist of a homogeneous mixture of pigment, fillers, resins, waxes and plasticizers. The total

binder content shall be well distributed throughout the compound. The binder shall be free from all foreign objects or ingredients that would cause bleeding, staining or discoloration. The binder shall be 19 percent minimum by weight of the thermoplastic compound.

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<u>907-624.02.3.3--Pigment.</u> The pigment used for black pavement marking compound shall be as required and shall be uniformly distributed throughout the marking compound.

<u>907-624.02.3.4--Filler</u>. The filler to be incorporated with the resins shall be a white calcium carbonate, silica or any approved substitute.

<u>907-624.02.3.5--Specific Gravity.</u> The specific gravity of the marking compound shall not exceed 2.0.

<u>907-624.02.3.6--Softening Point.</u> After heating the marking compound for 4 hours  $\pm 5$  minutes at 375  $\pm 3^{\circ}$ F and testing in accordance with ASTM E 28, the material shall have a minimum softening point of 180°F as measured by the ring and ball method.

<u>907-624.02.3.7--Tensile Bond Strength.</u> After heating the marking compound for 4 hours  $\pm 5$  minutes at 375  $\pm 3^{\circ}$ F, the tensile bond strength shall exceed 180 psi when tested in accordance with ASTM D 4806. The material shall be applied to unprimed, sandblasted Portland cement concrete block at a thickness of 0.0625-inch and at a temperature of 375  $\pm 3^{\circ}$ F. The test shall be conducted at room temperature.

<u>907-624.02.3.8--Impact Resistance.</u> After heating the marking compound for 4 hours  $\pm 5$  minutes at 375  $\pm 3^{\circ}$ F, the impact resistance shall be a minimum of 50 inch-pounds minimum when tested in accordance with ASTM D 2794. No cracks or bond loss shall occur when a 0.0625-inch thick film drawdown is made at 375  $\pm 3^{\circ}$ F on an unprimed sandblasted Portland cement concrete block. The sample is tested with a male indentor 5/8-inch and no female Die at room temperature.

<u>907-624.02.3.9--Identification</u>. Each package of material shall be stenciled with the manufacturer's name, the type of material and specification number, the month and year the material was packaged and lot number. The letters and numbers used in the stencils shall be a minimum of 1/2 inch in height.

<u>907-624.02.3.10--Packaging</u>. The material shall be packaged in suitable containers that will not adhere to the product during shipment and storage. The container of pavement marking material shall weigh approximately 50 lbs. Each container shall designate the color, type of resin, type of application and user information. The label shall warn the user that the material shall be heated in the range of  $350^{\circ}$  to  $425^{\circ}$ F.

<u>907-624.02.3.11--Storage Life.</u> The material shall meet the requirements of this specification for a period of one year. The material must also meet uniformly with no evidence of skins or unmelted particles for this one-year period. The manufacturer shall replace any material not meeting the above requirements.

<u>907-624.02.3.12--Certifications.</u> The material manufacturer shall furnish a certified copy of material test reports to the Engineer.

<u>907-624.02.4--Drop-On Glass Beads.</u> Drop-on glass beads shall be separated into two (2) classes, as follows:

<u>907-624.02.4.1--Class G Glass Beads.</u> Class G glass beads shall be coated with an adhesion promoting coating which shall also provide moisture resistance as tested by AASHTO M 247, Section 4.4.2 and shall exhibit the following characteristics:

- <u>Color and Clarity</u>: The glass beads shall be colorless and clear, and shall be free of carbon residues.
- Index of Refraction: minimum 1.50
- **<u>Roundness</u>**: The glass beads shall have a minimum of 80% true spheres per screen for the two highest sieve quantities, determined visually, and a maximum of 3% angular particles per sieve, determined visually. The remaining sieves shall have a minimum of 75% true spheres, determined visually per aspect ratio using microfiche reader.
- <u>Air Inclusions:</u> 10% maximum
- **Specific Gravity:** The specific gravity of the glass beads shall be a minimum of 2.50.
- Gradation: The gradation of Class G glass beads shall be as follows:

<u>U. S. Standard Sieve</u>	<u>% Passing</u>
12	100
14	100 - 95
16	100 - 80
18	100 - 20
20	90 - 20
30	100 - 50
Pan	100 - 90

All Class G glass beads shall be coated with an adhesion promoting coating.

<u>907-624.02.4.2--Class H Glass Beads.</u> Class H glass beads shall meet the requirements of ASTM D 1155, and shall be coated with an adhesion promoting coating which shall also provide moisture resistance as tested by AASHTO M 247, Section 4.4.2. Class H beads shall have a minimum of 70 percent true spheres and the +20 sieve shall be tested visually.

The gradation of the Class H beads shall meet the following:

<u>U. S. Standard Sieve</u>	<u>% Passing</u>
16	99 - 100
20	75 - 100
30	55 - 95
50	10 - 35
100	0 - 5

# 907-624.03--Construction Requirements.

**907-624.03.1--Equipment.** The application equipment shall be specifically designed for placing thermoplastic material in a hot molten state on the pavement surface utilizing a pressure type application method. The thermoplastic stripe shall be formed by a die that is allowed to drag along in proximity with the pavement surface. The die is pulled forward by a special linkage that will allow it to automatically level itself as to float and remain parallel with the pavement surface. The traffic stripe shall be formed by reason that the hot thermoplastic material is forced under pressure through four sides to the die onto the pavement surface. The top of the die shall be enclosed and provide entry means for the hot molten thermoplastic material to enter the die cavity. The bottom of the die shall contain a movable door that is remote controlled so as to start or stop the flow of thermoplastic material onto the pavement surface. When the movable door is open, thermoplastic material can flow through the die and will apply a thermoplastic stripe that will be formed rearward of the advancing die. The pavement surface shall be at the bottom of the die enclosure. Thermoplastic material shall be fed to the die under pressure through flexible oil-jacketed stainless steel hoses. The thermoplastic material must be either pumped or fed from a pressure vessel to the die under pressure in order to obtain the proper adhesion with the pavement surface.

The system shall consist of a low pressure drop-on type glass bead gun, (bead coat #1). The thermoplastic die shall be oil-jacketed on four (4) sides and is formed from a single solid block of steel. The glass bead gun shall dispense glass beads onto the hot thermoplastic stripe from a height of approximately one (1) inch above the pavement surface. The point at which the glass beads strike the surface of the stripe shall be approximately three inches (3") behind the strike point of the thermoplastic material itself. This reflective bead coat #1 shall utilize Class G glass beads as specified herein, and shall provide a surface coating of 50 percent of the thermoplastic stripe surface. Of this 50 percent stripe coverage, at least 50 percent of the beads shall be embedded to a depth of 60 percent of their diameter.

A second curtain coater, low pressure drop-on type glass bead gun capable of applying a continuous sheet or ribbon of glass beads, shall follow at an interval of approximately 10 inches behind the first bead gun. This second glass bead gun shall apply bead coat #2 which will form a continuous drop-on coat of Class H glass beads immediately in front of the profiling device. This second curtain of glass beads shall have a low impact speed so that they are not forced into the stripe under pressure.

A special rotatable wheel profiling device shall be located approximately eight (8) inches behind bead gun #2. This rotatable wheel device shall be approximately seven (7) inches in diameter and shall have a plurality of spaced projections located around its circumference. The profiling device shall be wider than the stripe being applied in order that the stripe shall be adequately covered. The projections on the rotatable profiling device shall have an angular profiling surface set at an angle to the pavement surface. The rotatable profile device shall be mounted with an automatic leveling device to the same carriage assembly as the thermoplastic gun. This is required so that a traffic stripe of accurate and uniform definition can be obtained. The inverted profile grooves shall be pressed into the hot molten thermoplastic stripe within one (1) second of the thermoplastic material application in order to insure proper bead adhesion to the stripe. Using rollers to place grooves in the traffic stripe utilizing a separate vehicle or grooves that are not pressed within one (1) second of the thermoplastic material application will not be allowed. To insure that no thermoplastic material adheres to the wheel as it rotates and profiles the stripe, a small air atomizer water jet shall apply a thin mist coat of water to the rotatable profile wheel. It is the intent of this specification that a minimum amount of water be used and that no water puddles greater than  $\frac{1}{4}$  inch in diameter be allowed to accumulate on the pavement surface in proximity to the freshly placed stripe. Excess water on the pavement surface can cause bond failure of the thermoplastic material.

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All parts of the thermoplastic holding tank including manifolds, hoses, pipes, dies, etc., shall be oil-jacketed to insure accurate temperature control. The thermoplastic material shall be preheated in kettles designed specifically for that purpose. Each kettle of preheated thermoplastic material shall be properly mixed and heated to the correct application temperature. The preheated material shall then be fed to the thermoplastic gun for application.

The striping machine shall contain enough glass beads and water to apply one full kettle of thermoplastic material.

<u>907-624.03.2--Cleaning of Pavement Surface.</u> Immediately before application, the areas to receive markings shall be cleaned thoroughly using equipment capable of cleaning without damaging the pavement surface. This will include, but not be limited to, all vegetation, loose soil, oils, and other debris. On areas of pavement cured with compound, the membrane shall be removed completely by "shot" blasting, sand blasting or other approved method. Striping shall follow as closely as practical after the pavement surface has been cleaned.

<u>907-624.03.3--Application Over Existing Striping</u>. Where shown on the plans or directed by the Engineer, the existing traffic stripe shall be removed by grinding or sandblasting. When placing inverted profile thermoplastic pavement markings on existing pavement that has more than one light coat (pavement not showing through stripe) of striping material, the existing stripe shall be removed to the point that 80 percent of the pavement surface is visible.

Removal of existing stripe will be paid for as a separate item of work.

Where unsatisfactory striping performed by the Contractor must be removed and replaced in accordance with these specifications, the Contractor shall use the removal method described above. No payment will be made for removal or replacement of the Contractor's unsatisfactory striping.

<u>907-624.03.4--Surface Conditions.</u> When placing inverted profile thermoplastic pavement markings, no striping shall be permitted when the pavement surface temperature is less than 60°F. A non-contact infrared pyrometer shall be furnished by the Contractor for use by the Engineer for verification of the temperature. Striping shall not be performed when there is moisture on the pavement surface or when winds exceed 12 mph. When unseen moisture is suspected to be present, a moisture test shall be performed. The test shall be as follows:

- 1) Place a piece of roofing felt on the pavement surface.
- 2) Pour 0.5 gallon of thermoplastic material at application temperature onto the paper.

4) If moisture is present, striping is not to begin until the surface is moist free.

Documentation of weather and pavement conditions shall be recorded as part of completing the MDOT Inverted Profile Thermoplastic Pavement Marking Inspectors Report.

<u>907-624.03.5--Application</u>. Prior to the placement of pavement markings, the Contractor shall furnish the Engineer three copies of the manufacturer's warranty stating that the manufacturer will guarantee the pavement marking to meet the requirements of this specification.

The thermoplastic material shall be preheated and thoroughly mixed. The application temperature of the thermoplastic material shall be between 400°F and 430°F. A digital thermometer complete with a 24-inch probe shall be furnished by the Contractor for use by the Engineer for verification of the temperature.

When measured at the highest point of the profile, the cold thickness of the in-place thermoplastic stripe shall be a minimum of 0.140 inch for Inverted Profile Thermoplastic Pavement Markings. The thickness of the thermoplastic material in the bottom of the profiles shall range from 0.025 to 0.050 inch. The individual profiles shall be located transversely across the stripe at intervals of approximately one (1) inch. The bottoms of these intervals shall be between 3/32 inch and 5/16 inch wide. In order to drain water and to reflect light, it is normal for the top surface of the inverted profiles to be irregular. The application rate of thermoplastic material for Inverted Profile Thermoplastic Pavement Markings shall be a minimum of  $2700\pm$  pounds per mile for a continuous 6-inch stripe.

The application rate for Class G glass beads (bead coat #1) shall be 300± pounds per mile for 6-inch continuous stripe.

The application rate for Class H glass beads (bead coat #2) shall be 300± pounds per mile for 6-inch continuous stripe.

The thickness of the striping materials shall be verified periodically (at least every 1320 feet) and any thickness more than five (5) percent under the designated thickness shall be reworked. A consistent, uncorrected under-run will not be allowed and the Contractor will be required to install the specified minimum thickness of 0.140 inch. A wet thickness gauge and cold thickness gauge shall be furnished by the Contractor for use by the Engineer for the verification of film thickness.

When striping over existing painted stripe (one light coat), on old oxidized asphalt, on all concrete surfaces or on asphalt surfaces when ambient temperatures are below 70°F, a two component epoxy primer sealer shall be used and installed as recommended in writing by the thermoplastic material manufacturer. The epoxy primer sealer shall be EX255/EX256 as manufactured by Crown Paint Company of Oklahoma City, Oklahoma, or approved equal. The Contractor shall furnish certification of compatibility of the epoxy primer sealer to be used with the thermoplastic material supplied. If an alternate epoxy primer sealer to the EX255/EX256 is used, the Contractor

shall furnish a mill analysis and proof of adequate performance of the alternate epoxy primer sealer when used with thermoplastic pavement markings.

<u>907-624.03.6--Inverted Profile Thermoplastic Traffic Stripe, High Contrast.</u> Before applying the black pavement marking material, the Contractor shall remove any dirt, glaze, grease or any other material that would reduce the adhesion of the thermoplastic to the pavement.

The pavement marking material shall be installed in a molten state by the spray method at a minimum temperature of 350°F and a maximum temperature of 425°F. Scorching or discoloration of material shall be cause for rejection by the Engineer. The machinery shall be constructed so that all mixing and conveying parts, up to and including the thermoplastic gun, maintain the material in the molten state.

The pavement marking materials shall not be applied when air and pavement surface temperatures are below 60°F or when the surface of the pavement contains any evidence of moisture.

The pavement marking material shall be applied at a thickness of not less than 0.040-inch.

The equipment used to install hot applied pavement marking material shall provide continuous mixing and agitation of the material while maintaining a minimum temperature exceeding 400°F. A strainer shall be in place between the main material reservoir and the gun to prevent accumulation and clogging. The equipment shall be constructed for easy accessibility to parts requiring cleaning and maintenance.

After the black thermoplastic pavement markings are applied, inverted profile thermoplastic markings shall be placed over the black thermoplastic pavement markings in accordance with the specifications and to the dimensions and details shown on the plans or established.

<u>907-624.03.7--Warranty</u>. The manufacturer shall warrant that the inverted profile thermoplastic markings will meet the minimum performance level of 150 mcd/fc/sq. ft. dry and 75 mcd/fc/sq. ft. wet for a period of 48 months from the date of final inspection when exposed to normal roadway conditions regardless of the average daily traffic. Failure to meet this requirement will result in the total replacement of the portion of the stripe shown to be below these minimums. All costs of labor, material and other incidentals necessary for the replacement of unacceptable pavement markings shall be at no additional costs to the State.

Compliance will be determined by an average brightness reading over a minimum zone marking length of 300 linear feet, using an approved reflectometer. The zone of measurement referred to includes centerline stripe, edge lines and skip lines.

Performance Requirements:	White		Yellow	
_	Dry	Wet	Dry	Wet
Initial Reflectivity, mcd/fc/sq. ft.	450	200	350	175
48-Month Retained Reflectivity	150	75	150	75

The measurement procedure for this warranty will entail a visual night inspection by a manufacturer representative and a MDOT representative to identify areas of the installation, which appear to be below the specified minimum, warranted reflectance value. All reflectance measurements for dry conditions shall be made on a clean dry surface at a minimum temperature of 40°F. All reflectance measurements for wet conditions shall be made using the setting conditions of Subsection 907-624.02.2.8 at a minimum temperature of 40°F.

Measurement intervals for installations with areas less than, or equal to, three (3) miles shall be at a minimum of three (3) check points for each zone. These check points should include the start point, approximate mid-point and the end point.

Measurement intervals for installations with areas greater than three (3) miles shall be at a minimum of three (3) check points, one at the start point, one at the end point and additional measurements spaced at 3-mile intervals between the start and end points of the area in question.

The number of measurements at each check point for each zone will be as follows:

- (A) Skip Lines: Eighteen (18) measurements, distributed over six (6) skip lines, shall be made at each check point.
- (B) Center Lines and/or Edge Lines: Eighteen (18) measurements shall be made over 300 linear feet of continuous stripe.

When taking reflectivity measurements, the value of the measurement shall be determined by averaging three measurements; one at the left edge of the stripe, one at the center of the stripe and one at the right edge of the stripe.

In addition, the reflectance values measured at each check point shall be averaged by zone to determine conformance to the minimum warranted reflective values.

<u>907-624.04--Method of Measurement.</u> Inverted profile thermoplastic traffic stripe of the type specified will be measured by the mile or by the linear foot, as indicated, from end-to-end of individual stripes. In the case of skip lines the measurement will include skips. The length used to measure centerline and edge stripes will be the horizontal length computed along the stationed control line. Inverted profile thermoplastic detail traffic stripe will be measured by the linear foot from end-to-end of individual stripes. Measurements will be made along the surface of each stripe and will exclude skip intervals where skips are specified. Stripes more than six (6) inches in width will be converted to equivalent lengths of six-inch widths.

<u>907-624.05-Basis of Payment.</u> Inverted profile thermoplastic traffic stripe, measured as prescribed above, will be paid for at the contract unit price per mile or linear foot, as applicable, which shall be full compensation for completing the work.

Payment will be made under:

907-624-A:	6" Inverted Profile Thermoplastic Traffic Stripe, Skip White *	- per linear foot or mile
907-624-B:	6" Inverted Profile Thermoplastic Traffic Stripe, Continuous White *	- per linear foot or mile
907-624-C:	6" Inverted Profile Thermoplastic Traffic Stripe, Skip Yellow *	- per linear foot or mile
907-624-D:	6" Inverted Profile Thermoplastic Traffic Stripe, Continuous Yellow *	- per linear foot or mile
907-624-E:	Inverted Profile Thermoplastic Detail Traffic Stripe, Color *	- per linear foot

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\* High Contrast may be specified

# SPECIAL PROVISION NO. 907-626-9

CODE: (SP)

# DATE: 09/05/2018

# **SUBJECT:** Audible Thermoplastic Traffic Markings

Section 626, Thermoplastic Traffic Markings, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

<u>907-626.01--Description.</u> After the first paragraph of Subsection 626.01 on page 492, add the following.

This work may also consist of placing a profile (raised shape) marking system on centerline or edge line that provides audible and vibratory warning when driven over. The markings system shall be a road marking system of the dimensions indicated at regular and predetermined intervals. When placed on centerline, the markings system shall consist of an extruded black transverse thermoplastic bars of the dimensions indicated at regular and predetermined intervals.

# 907-626.02--Materials.

<u>907-626.02.1--Thermoplastic Material</u>. After the paragraph in Subsection 626.02.1 on page 493, add the following.

Thermoplastic material for edge line transverse bars shall be white thermoplastic meeting the above requirements. Thermoplastic material for centerline transverse bars shall meet the above requirements but shall be black in color. The black color must be acceptable to the Engineer.

## 907-626.03--Construction Requirements.

<u>907-626.03.1--Thermoplastic Stripe.</u> After Subsection 626.03.1.2 on page 495, add the following.

<u>907-626.03.1.3--Transverse Bars</u>. The length of transverse bars is the measurement lateral to the travel way, also known as transverse width. The width of transverse bars is the measurement parallel to the travel way.

Transverse bars on centerline shall have a length of 10 inches, a width of three inches (3"), and a height of 350 mils (0.35"). Transverse bars on centerline shall be placed on 2-foot centers through no-passing zones and 5-foot centers through passing zones.

Transverse bars on edge line shall have a length of six inches (6"), a width of three inches (3"), and a height of 350 mils (0.35"). Transverse bars on edge lines shall be placed on 2-foot centers. The above dimensions are based on 6-inch stripe application.

The tolerance for the length and width measurements shall be 0.25 inch ( $\frac{1}{4}$ "), and the tolerance for height shall be 50 mils (0.05").

Transverse bars may be placed in advance of permanent thermoplastic markings or after placement of the permanent stripe. This may be accomplish in multiple-pass operations or in a single-pass operation. Regardless of which method is used, the required thicknesses and tolerances shall be met.

<u>907-626.04--Method of Measurements</u>. After the first paragraph of Subsection 626.04 on page 495, add the following.

Thermoplastic audible centerline skip stripe will be measured by the linear foot or mile. Measurements will be made along the surface from end-to-end of the stripe and will include skip intervals. The length used to measure audible centerline stripe will be the horizontal length computed along the stationed control line. The length measured for thermoplastic audible centerline skip stripe <u>will not</u> include the permanent centerline continuous or skip stripe. Permanent centerline continuous and skip stripe will be measured for payment under separate pay items.

Thermoplastic audible edge stripe will be measured by the linear foot or mile. Measurements will be made along the surface from end-to-end of the stripe. The length used to measure thermoplastic audible edge stripe will be the horizontal length computed along the stationed control line. The length measured for thermoplastic audible edge stripe <u>will not</u> include the permanent thermoplastic edge stripe. Permanent thermoplastic edge stripe will be measured for payment under a separate pay item.

<u>907-626.05--Basis of Payment.</u> Add the following to the list of pay items on pages 495and 496.

907-626-A: Thermoplastic Audible Traffic Stripe, Centerline Skip - \* - per linear foot or mile

907-626-C: Thermoplastic Audible Edge Stripe

- per linear foot or mile

\* Indicate Passing Zone, or No-Passing Zone



- 3 -



Top View

# Detail of Audible Centerline Markings



- 4 -

Top View

# Detail of Audible Edge Line Markings

Note: The above detail shows the transverse bars being place before the permanent edge stripe. Placement of transverse bars before or after the permanent edge stripe is acceptable. Permanent edge stripe will be paid for separately from the audible edge stripe.

# SPECIAL PROVISION NO. 907-626-10

CODE: (SP)

## DATE: 09/12/2018

# **SUBJECT:** Audible Bump Thermoplastic Traffic Markings

Section 626, Thermoplastic Traffic Markings, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

<u>907-626.01--Description.</u> After the first paragraph of Subsection 626.01 on page 492, add the following.

This work may also consist of placing an audible bump (puck) marking system on the edge line that provides audible and vibratory warning when driven over. The markings system shall be a road marking system of the dimensions indicated at regular and predetermined intervals.

907-626.02--Materials. After Subsection 626.02.2 on page 493, add the following.

<u>907-626.02.3--Audible Bumps.</u> Audible bumps shall have a profile such that the leading and trailing edges are sloped at a sufficient angle to create an audible and vibratory warning.

Audible bumps shall be at least 0.45 inches above the pavement surface at the highest point of the bump. The height shall be measured after the application of drop-on beads. The bumps shall have a minimum dimension of two and one-half inches  $(2\frac{1}{2})$  in both transverse and longitudinal directions. The bumps may have a drainage channel. The width of each drainage channel shall not exceed  $\frac{1}{4}$  of an inch at the bottom of the channel.

## 907-626.03--Construction Requirements.

<u>907-626.03.1.1--Equipment.</u> After the last paragraph of Subsection 626.03.1.1 on page 494, add the following.

The equipment for placing the audible bumps shall be an automated device attached to the striper that will dispense and seat the bumps in the center of the freshly placed thermoplastic marking at a spacing of 30 inches.

<u>907-626.04--Method of Measurements</u>. After the last sentence of the first paragraph of Subsection 626.04 on page 495, add the following.

The length measured for thermoplastic audible bump edge stripe <u>will not</u> include the permanent thermoplastic edge stripe. Permanent thermoplastic edge stripe will be measured for payment under a separate pay item.

907-626.05--Basis of Payment. Add the following to the list of pay items on pages 495 and 496.

907-626-C: Thermoplastic Audible Bump Edge Stripe - per linear foot or mile

# **SPECIAL PROVISION NO. 907-701-1**

CODE: (SP)

DATE: 10/23/2018

# 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 third paragraph of Subsection 701.01 on page 718, change "mills" to "plants."

In the second sentence of the seventh paragraph of Subsection 701.01 on pages 718 and 719, change "shall" to "will."

## 907-701.02--Portland Cement.

## <u>907-701.02.1-General</u>.

<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.

# <u>907-701.02.2.1--Portland Cement Concrete Exposed to Soluble Sulfate Conditions or Seawater</u>.

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.

Sulfate Exposure	Water-soluble sulfate (SO <sub>4</sub> ) in soil, % by mass	Sulfate (SO <sub>4</sub> ) in water, ppm	Cementitious material required
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
			or
			Type II <sup>*,**</sup> cement
Severe	0.20 - 2.00	1,500 - 10,000	Type I cement with a replacement by weight
			of 49.5 - 50.0% GGBFS,
			or
			Type II <sup>*</sup> 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

- 2 -

- \* Type III cement conforming to AASHTO M85 with a maximum 8% tricalcium aluminate (C<sub>3</sub>A) may be used in lieu of Type II cement as allowed in Subsection 701.02.1; this cement is given the designation "Type III(MS)."
- \*\* Class F fly ash or GGBFS may be added as a replacement for cement as allowed in Subsection 907-701.02.2.

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

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

# 907-701.04--Blended Hydraulic Cement.

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

<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:</u>** 

- 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.

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.

- 3 -

<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.

**<u>907-701.04.2.1--Blended Cement Concrete Exposed to Soluble Sulfate Conditions or</u></u> <u>Seawater</u>. 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.** 

Sulfate	Water-soluble	Sulfate (SO <sub>4</sub> )	Cementitious material required
Exposure	sulfate (SO <sub>4</sub> ) 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

 Table 2- Cementitious Materials for Soluble Sulfate Conditions or Seawater

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

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

# 907-701.04.2.2--Blended Cement for Soil Stabilization Exposed to Soluble Sulfate Conditions

**or Seawater.** When blended cement for use in soil stabilization is exposed to moderate or severe soluble sulfate conditions, or to seawater, cement types and replacement of cement by Class F fly ash or GGBFS shall meet the requirements of Subsection 701.04.2.1.

Delete Subsection 701.04.3 on page 721.

# **SPECIAL PROVISION NO. 907-702-4**

CODE: (IS)

## DATE: 09/11/2018

# **SUBJECT:** Bituminous Materials

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

<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.

	LI	)-7	СН	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

# TABLE V SPECIFICATION FOR FOG SEAL

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

# **SPECIAL PROVISION NO. 907-703-1**

CODE: (IS)

DATE: 06/13/2018

# **SUBJECT:** Gradation

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

# 907-703.03--Course Aggregates for Hydraulic Cement Concrete.

# 907-703.03.2--Detail Requirements.

<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.

# **SPECIAL PROVISION NO. 907-705-1**

CODE: (IS)

DATE: 06/13/2018

# **SUBJECT:** Stone Riprap

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

<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. 907-711-2**

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.

# <u>907-711.02.3--Steel Welded and Non-Welded Wire Reinforcement, Plain and Deformed, for</u> <u>Concrete</u>.

<u>907-711.02.3.1--Plain Steel Wire.</u> 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.

# **SPECIAL PROVISION NO. 907-720-2**

CODE: (IS)

# DATE: 09/11/2018

# SUBJECT: Acceptance Procedure for Glass Beads

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

## 907-720.01--Glass Beads.

<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.

# 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) h	nereinafter 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, cashiet's check, or Proposal Guaranty Bond in the amount as required in the Advertisement (or, by law) is submitted electronically with the proposal or is delivered to the Contract Administration Engineer prior to the bid opening time specified in the advertisement.

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

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

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

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

I (We) shall submit electronically with our proposal or deliver prior to the bid opening time a certified check, cashier's check or bid bond for <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.

# $S \ E \ C \ T \ I \ O \ N \quad 9 \ 0 \ 5 \ -- \ P \ R \ O \ P \ O \ S \ A \ L \quad (CONTINUED)$

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
	6
	Contractor BY
	Signature
	TITLE
	ADDRESS
	CITY, STATE, ZIP
	PHONE
	FAX
	E-MAIL
(To be filled in if a corporation)	
Our corporation is chartered under the Laws of the names, titles and business addresses of the executives are as	State of and the follows:
President	Address
Secretary	Address
Treasurer	Address

The following is my (our) itemized proposal.

Scrub Seal & Thin Lift approximately 4 miles of SR 13 from Bowen Road to East Street, known as State Project No. MP-7013-64(004) /306646301 in Simpson County.

Line no.	Item Code	Adj Code	Quantity	Units Roadway I	Description[Fixed Unit Price]
0010	202-B240		2,260	Linear Feet	Removal of Traffic Stripe
0020	203-G002	(E)	109	Cubic Yard	Excess Excavation, LVM, AH
0030	304-A008	(GY)	861	Cubic Yard	Granular Material, LVM, Class 6, Group D
0040	403-A006	(BA1)	587	Ton	19-mm, ST, Asphalt Pavement
0050	403-B012	(BA1)	948	Ton	9.5-mm, ST, Asphalt Pavement, Leveling
0060	406-D001		12,715	Square Yard	Fine Milling of Bituminous Pavement, All Depths
0070	407-A001	(A2)	6,528	Gallon	Asphalt for Tack Coat
0080	412-A001		1,416	Square Feet	Pre-Grinding (\$3.25)
0090	423-A001		6	Mile	Rumble Strips, Ground In
0100	618-A001		1	Lump Sum	Maintenance of Traffic
0110	618-B001		1	Square Feet	Additional Construction Signs (\$10.00)
0120	619-A1001		21	Mile	Temporary Traffic Stripe, Continuous White
0130	619-A2001		19	Mile	Temporary Traffic Stripe, Continuous Yellow
0140	619-A4002		16	Mile	Temporary Traffic Stripe, Skip Yellow
0150	619-A5001		10,520	Linear Feet	Temporary Traffic Stripe, Detail
0160	619-A6001		28	Square Feet	Temporary Traffic Stripe, Legend
0170	619-A6002		2,364	Linear Feet	Temporary Traffic Stripe, Legend
0180	620-A001		1	Lump Sum	Mobilization
0190	626-C004		6	Mile	6" Thermoplastic Edge Stripe, Continuous White
0200	626-D003		3	Mile	6" Thermoplastic Traffic Stripe, Skip Yellow
0210	626-E004		5	Mile	6" Thermoplastic Traffic Stripe, Continuous Yellow
0220	626-G002		7,340	Linear Feet	Thermoplastic Detail Stripe, White
0230	626-G003		3,180	Linear Feet	Thermoplastic Detail Stripe, Yellow
0240	626-H004		28	Square Feet	Thermoplastic Legend, White
0250	626-Н005		2,364	Linear Feet	Thermoplastic Legend, White
0260	627-H002		500	Each	Chip Seal Reflective Raised Markers. Two-Way Yellow
0270	627-J001		440	Each	Two-Way Clear Reflective High Performance Raised Markers
0280	627-L001		864	Each	Two-Way Yellow Reflective High Performance Raised Markers
0290	627-P001		20	Each	Two-Way Blue Reflective High Performance Raised Markers
0300	907-411-A001	(BA1)	5,408	Ton	Ultra Thin Asphalt Pavement
0310	907-414-A001		38,031	Square Yard	Scrub Seal
0320	907-619-B001		66	Linear Feet	Temporary Portable Rumble Strips
				ERNATE GROUP	
0330	907-624-B002		1,452	Linear Feet	6" Inverted Profile Thermoplastic Traffic Stripe, Continuous White
0340	907-624-C001		80	Linear Feet	6" Inverted Profile Thermoplastic Traffic Stripe, Skip Yellow
0350	907-624-D002		800	Linear Feet	6" Inverted Profile Thermoplastic Traffic Stripe, Continuous Vellow

(Date Printed 06/25/19)

Innersing     Innersing     Aufgreend     Quantity     Units     Description/Proceed/Partice       0360     628-1001     102     100     Linear Feer     0° Hild Performance Cold Plastic Traffic Stripe, Continuous Wall       0370     628-0001     80     Linear Feer     0° Hild Performance Cold Plastic Traffic Stripe, Continuous Wall       0380     628-0001     2     Mile     Thermoplastic Audible Edge Stripe       0300     97-626-C000     2     Mile     Thermoplastic Audible Edge Stripe       0300     97-626-C010     2     Mile     Thermoplastic Audible Edge Stripe       0300     97-626-C010     2     Mile     Thermoplastic Audible Edge Stripe       0300     97-626-C010     2     Mile     Thermoplastic Audible Edge Stripe						-
0406       628-H001       1,452       Lincar Feet       6" High Performance Cold Plastic Traffic Stripe, Continuous Whi         0308       628-J001       800       Lincar Feet       6" High Performance Cold Plastic Traffic Stripe, Continuous         0390       628-J001       800       Lincar Feet       6" High Performance Cold Plastic Traffic Stripe, Continuous         0390       907-626-C003       2       Mile       Thermoplastic Audible Edge Stripe         0400       907-626-C010       2       Mile       Thermoplastic Audible Edge Stripe         0400       907-626-C010       2       Mile       Thermoplastic Audible Edge Stripe         0400       907-626-C010       2       Mile       Thermoplastic Audible Ramp Fdge Stripe	Line no.	Item Code	Adj Code	Quantity	Units	Description[Fixed Unit Price]
030       628-002       80       Linear Faat       6" High Performance Cold Plastic Traffic Stripe, Continuous 2000         0380       628-001       800       Linear Faat       6" High Performance Cold Plastic Traffic Stripe, Continuous 2000         0390       907-626-C003       2       Mic       Thermoplastic Audible Edge Stripe         0400       907-626-C010       2       Mic       Thermoplastic Audible Edge Stripe         0400       907-626-C010       2       Mic       Thermoplastic Audible Edge Stripe         0400       907-626-C010       2       Mic       Thermoplastic Audible Biomp Edge Stripe         0400       907-626-C010       2       Mic       Thermoplastic Audible Biomp Edge Stripe         0400       907-626-C010       2       Mic       Thermoplastic Audible Biomp Edge Stripe				ALT	ERNATE GROUP	AA NUMBER 2
030       628-001       800       Linear Feet       0° High Performance Cold Plastic Traffic Stripe, Continuous Yeallow         030       90°-628-C003       2       Mile       Thermoplastic Audible Edge Stripe         0400       90°-628-C010       2       Mile       Thermoplastic Audible Edge Stripe         0400       90°-628-C010       2       Mile       Thermoplastic Audible Edge Stripe         0400       90°-628-C010       2       Mile       Thermoplastic Audible Bamp Edge Stripe	0360	628-H001		1,452	Linear Feet	6" High Performance Cold Plastic Traffic Stripe, Continuous White
Value       1.1.TERNATE GROUP Be NUMBER I         0390       907-626-C010       2       Mile       Thermoplastic Audible Edge Stripe         0400       907-626-C010       2       Mile       Thermoplastic Audible Bamp Edge Stripe	0370	628-I002		80	Linear Feet	6" High Performance Cold Plastic Traffic Stripe, Skip Yellow
030       907-626-C003       2       Mik       Thermoplastic Audible Edge Stripe         0400       907-626-C010       2       Mik       Thermoplastic Audible Edge Stripe	0380	628-J001				Yellow
040       907-626-C010       2       Mit       Thermoplastic Audible Bump Edge Stripe						
	0390	907-626-C003				
Formational purposes						
(Date Printed 06/25/19)						
(Date Printed 06/25/19)						
				(D	Date Printed 06/25/19	

If a bidder elects to submit a combined bid for two or more of the contracts listed for this month's letting, the bidder must complete and execute these sheets of the proposal in each of the individual proposals to constitute a combination bid. In addition to this requirement, each individual contract shall be completed, executed and submitted in the usual specified manner.
Failure to execute this Combination Bid Proposal in each of the contracts combined will be just cause for each proposal to be received and evaluated as a separate bid.
It is understood that the Mississippi Transportation Commission not only reserves the right to reject any and all proposals, but also the right to award contracts upon the basis of lowest separate bids or combination bids most advantageous to the State.
It is further understood and agreed that the Combination Bid Proposal is for comparison of bids only and that each contract shall operate in every respect as a separate contract in accordance with its proposal and contract documents.
I (We) agree to complete each contract on or before its specified completion date.
***************************************
COMBINATION BID PROPOSAL
This proposal is tendered as one part of a Combination Bid Proposal utilizing option* of Subsection 102.11 on the following contracts:
* Option to be shown as either (a), (b), or (c).
Project No. County County County
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27.
3.
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<ul><li>(a) If Combination A has been selected, your Combination Bid is complete.</li><li>(b) If Combination B has been selected, then complete the following page.</li></ul>

SECTION 905 - COMBINATION BID PROPOSAL (Continued)

T	I otal Contract Reduction								0	
T 1 T4	I otal Item Reduction									
U 7: - 11	Unit Price Reduction									
T T14	Unit									
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SECTION 905 - COMBINATION BID PROPOSAL (Continued)

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	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 \$	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 \$	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 \$	<ul> <li>c) If Combination C has been selected, then initial and complete ONE of the following.</li> <li>I (We) desire to be awarded work not to exceed a total monetary value of \$</li></ul>	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 \$	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 \$	<ul> <li>c) If Combination C has been selected, then initial and complete ONE of the following.</li> <li>I (We) desire to be awarded work not to exceed a total monetary value of \$</li></ul>	<ul> <li>c) If Combination C has been selected, then initial and complete ONE of the following.</li> <li>I (We) desire to be awarded work not to exceed a total monetary value of \$</li> <li>I (We) desire to be awarded work not to exceed number of contracts.</li> </ul>	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 \$	c) If Combination C has been selected, then initial and complete ONE of the following.          I (We) desire to be awarded work not to exceed a total monetary value of \$         I (We) desire to be awarded work not to exceed	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 \$	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 \$	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 \$	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 \$	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 \$	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 \$	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 \$	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 \$	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 \$	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 \$
	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 \$	<ul> <li>c) If Combination C has been selected, then initial and complete ONE of the following.</li> <li>I (We) desire to be awarded work not to exceed a total monetary value of \$\$ </li> <li>I (We) desire to be awarded work not to exceed number of contracts.</li> </ul>	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 \$	<ul> <li>c) If Combination C has been selected, then initial and complete ONE of the following.</li> <li>I (We) desire to be awarded work not to exceed a total monetary value of \$</li></ul>	<ul> <li>c) If Combination C has been selected, then initial and complete ONE of the following.</li> <li>I (We) desire to be awarded work not to exceed a total monetary value of \$</li></ul>	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 \$	<ul> <li>c) If Combination C has been selected, then initial and complete ONE of the following.</li> <li>I (We) desire to be awarded work not to exceed a total monetary value of \$</li></ul>	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 \$	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 \$	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 \$	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 \$	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 \$	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 \$	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 \$	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 \$	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 \$	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 \$	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 \$	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 \$	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 \$
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Ś TION BID PROPOSAL SECTION 905 - COMBINA

# 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 NOT</u> constitute <u>APPROVAL</u> of the subcontracts.

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

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

Contractor \_\_\_\_\_

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION CERTIFICATION

I,
(Name of person signing bid)
individually, and in my capacity as
(Title of person signing bid)
(Name of Firm, partnership, or Corporation)
do hereby certify under penalty of perjury under the laws of the United States and the State of Mississippi
that, Bidder
(Name of Firm, Partnership, or Corporation)
on Project No. MP-7013-64(004)/ 306646301000
in <u>Simpson</u> directly or indirectly entered into any agreement, participated in any collusion; or otherwise taken any action in restraint of free competitive bidding in connection with this contract; nor have any of its corporate officers or principal owners.
Except as noted hereafter, it is further certified that said legal entity and its corporate officers, principal owners, managers, auditors and others in a position of administering federal funds are not currently under suspension, debarment, voluntary exclusion or determination of ineligibility; nor have a debarment pending; nor been suspended, debarred, voluntarily excluded or determined ineligible within the past three years by the Mississippi Transportation Commission, the State of Mississippi, any other State or a federal agency; nor been indicted, convicted or had a civil judgment rendered by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past three years.
Do exceptions exist and are made a part thereof? Yes / No
Any exceptions shall address to whom it applies, initiating agency and dates of such action.
Note: Exceptions will not necessarily result in denial of award but will be considered in determining bidder responsibility. Providing false information may result in criminal prosecution or administrative sanctions.
All of the foregoing is true and correct.

(1/2016 S)

#### CONTRACT FOR MP-7013-64(004)/ 306646301000

#### LOCATED IN THE COUNTY(IES) OF Simpson

#### STATE OF MISSISSIPPI, COUNTY OF HINDS

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

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

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

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

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

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

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

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

Witness our signature	es this the day of
Contractor(s)	
By	MISSISSIPPI TRANSPORTATION COMMISSION
Title	By
Signed and sealed in the presence of: (names and addresses of witnesses)	Executive Director
	Secretary to the Commission
	nsportation Commission in session on the day of

# S E C T I O N 903 PERFORMANCE AND PAYMENT BOND

#### CONTRACT BOND FOR: MP-7013-64(004)/ 306646301000

#### LOCATED IN THE COUNTY(IES) OF: Simpson

#### STATE OF MISSISSIPPI, COUNTY OF HINDS

Principal, a	Know all men by these presents: that we, _	((	Contractor)
and	Principa	l, a	
residing at	residing at	in the State of	
residing at	and		6
shown below, are held and firmly bound unto the State of Mississippi in the sum of	residing at	(Surety) in the State of	,
(s) Dollars, lawful money of the United States of America, to be paid to it for which payment well and truly to be made, we bind ourselves, our heirs, administrators, successors, or assigns jointly and severally by these presents. The conditions of this bond are such, that whereas the said	authorized to do business in the State of M	ississippi, under the laws thereo	of, as surety, effective as of the contract date
payment well and truly to be made, we bind ourselves, our heirs, administrators, successors, or assigns jointly and severally by these presents. The conditions of this bond are such, that whereas the said	shown below, are held and firmly bound up	nto the State of Mississippi in th	ne sum of
payment well and truly to be made, we bind ourselves, our heirs, administrators, successors, or assigns jointly and severally by these presents. The conditions of this bond are such, that whereas the said			
severally by these presents. The conditions of this bond are such, that whereas the said	(\$) Dollar	s, lawful money of the United S	tates of America, to be paid to it for which
The conditions of this bond are such, that whereas the said	payment well and truly to be made, we bin	d ourselves, our heirs, administ	rators, successors, or assigns jointly and
principal, has (have) entered into a contract with the Mississippi Transportation Commission, bearing the date ofday ofA.Dhereto annexed, for the construction of certain projects(s) in the State of Mississippi as mentioned in said contract in accordance with the Contract Documents therefor, on file in the offices of the Mississippi Department of Transportation, Jackson, Mississippi. Now therefore, if the above boundenin all things shall stand to and abide by and well and truly observe, do keep and perform all singular the terms, covenants, conditions, guarantees and agreements in said contract, contained on his (their) part to observed, done, kept and performed and each of them, at the time and in the manner and form and furnish all of material and equipment specified in said contract in strict accordance with the terms of said contract which said pl specifications and special provisions are included in and form a part of said contract and shall maintain the said w contemplated until its final completion and acceptance as specified in Subsection 109.11 of the approved specification ad axe harmless said Mississippi Transportation Commission from any loss or damage whatsoever, on the part of sprincipal (s), his (their) agents, servants, or employees in the performance of said work or in any manner connec therewith, and shall be liable and responsible in a civil action instituted by the State at the instance of the Mississ Transportation Commission or any officer of the State authorized in such cases, for double any amount in morey property, the State may lose or be overcharged or otherwise defrauded of, by reason of wrongful or criminal act, if any the Contractor (s), his (their) agents or employees, and shall promptly pay the said agents, servants and employees and the responsible in a civil action instituted by the State at the instance of the Mississ Transportation Commission or any officer of the State authorized of, by reason of wrongful or criminal act, if any the Contractor	severally by these presents.		
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the negligence, wrongful or criminal act, overcharge, fraud, or any other loss or damage whatsoever, on the part of s principal (s), his (their) agents, servants, or employees in the performance of said work or in any manner connect therewith, and shall be liable and responsible in a civil action instituted by the State at the instance of the Mississ Transportation Commission or any officer of the State authorized in such cases, for double any amount in money property, the State may lose or be overcharged or otherwise defrauded of, by reason of wrongful or criminal act, if any the Contractor(s), his (their) agents or employees, and shall promptly pay the said agents, servants and employees and			
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the Contractor(s), his (their) agents or employees, and shall promptly pay the said agents, servants and employees and			· · · ·
persons furnishing labor, material, equipment or supplies therefor, including premiums incurred, for Surety Bor			

Liability Insurance, and Workmen's Compensation Insurance; with the additional obligation that such Contractor shall

promptly make payment of all taxes, licenses, assessments, contributions, damages,

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

(Contractors) Principal	Surety
By	By
-	By (Signature) Attorney in Fact
	Address
Title (Contractor's Seal)	
(Contractor's Seal)	(Printed) MS Agent
	(Signature) MS Agent
	Address
	(Surety Seal)
	Mississippi Insurance ID Number

Revised 9/02/2014



# **BID BOND**

KNOW ALL MEN BY THESE P	RESENTS, that we			
	· · · · · · · · · · · · · · · · · · ·		Contractor	
			Address	
			City, State ZIP	
As principal, hereinafter called the	e Principal, and		Surety	
a corporation duly organized unde				
as Surety, hereinafter called the S	urety, are held and firmly b	oound unto <u>State</u>	of Mississippi, Jacks	on, Mississippi
As Obligee, hereinafter called Ob	ligee, in the sum of <b>Five I</b>	Per Cent (5%) of A	mount Bid	
		Dollars(	\$	)
for the payment of which sum w executors, administrators, success				urselves, our heirs,
NOW THEREFORE, the condition said Principal will, within the time performance of the terms and com- will pay unto the Obligee the diffe- which the Obligee legally contract but in no event shall liability hered	e required, enter into a forr ditions of the contract, ther erence in money between t ts with another party to per	nal contract and give this obligation to be he amount of the big form the work if the	e a good and sufficien e void; otherwise the I d of the said Principal	t bond to secure the Principal and Surety and the amount for
Signed and sealed this	day of	, 2	0	
			(Principal)	(Seal)
(Witness)		By:	(Name)	(Title)
			(Surety)	(Seal)
(Witness)		By:	(Attorney-in-Fa	lect)
			(MS Agent)	

Mississippi Insurance ID Number



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