

SECTION 905 -- PROPOSAL (CONTINUED)

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

Bidder acknowledges receipt of and has added to and made a part of the proposal and contract documents the following addendum (addenda):

ADDENDUM NO. <u>1</u>	DATED <u>5/16/2018</u>	ADDENDUM NO. _____	DATED _____
ADDENDUM NO. <u>2</u>	DATED <u>6/14/2018</u>	ADDENDUM NO. _____	DATED _____
ADDENDUM NO. _____	DATED _____	ADDENDUM NO. _____	DATED _____

Number	Description
1	Postponed till June Letting; Amendment EBS Download Required.
2	Revised Advertisement; Revised Table of Contents; Revised NTB Nos. 812 & 813; Add NTB No. 814; SP 907-410-2, replaces SP 907-410-1; SP 907-702-3, replaces SP 907-702-1; Revised BidItems; Delete Progress Schedule; Amendment EBS Download Required.

TOTAL ADDENDA: 2
(Must agree with total addenda issued prior to opening of bids)

Respectfully Submitted,

DATE _____

Contractor

BY _____
Signature

TITLE _____

ADDRESS _____

CITY, STATE, ZIP _____

PHONE _____

FAX _____

E-MAIL _____

(To be filled in if a corporation)

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

_____ President	_____ Address
_____ Secretary	_____ Address
_____ Treasurer	_____ Address

The following is my (our) itemized proposal.

IM-0055-04(108) / 107797301000 & IM-0055-03(093) / 107797302000

Yalobusha & Panola County(ies)

Revised 01/26/2016

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION
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IM-0055-03(093) / 107797302 - Yalobusha**

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

06/14/2018 02:21 PM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 901 - ADVERTISEMENT

Electronic bids will be received by the Mississippi Transportation Commission at 10:00 o'clock A.M., Tuesday, June 26, 2018, from the Bid Express Service and shortly thereafter publicly read on the Sixth Floor For:

Fog Seal Approximately 27 miles of I-55 from Cobb Road to 0.4 Miles North of SR 330, known as Federal Aid Project Nos. IM-0055-04(108) & IM-0055-03(093) / 107797301 & 302 in Panola & Yalobusha Counties.

The attention of bidders is directed to the Contract Provisions governing selection and employment of labor. Minimum wage rates have been predetermined by the Secretary of Labor and are subject to Public Law 87-581, Work Hours Act of 1962, as set forth in the Contract Provisions.

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

The award of this contract will be contingent upon the Contractor satisfying the DBE requirements.

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

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

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

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

MELINDA L. MCGRATH
EXECUTIVE DIRECTOR

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 812

CODE: (SP)

DATE: 6/14/2018

SUBJECT: Contract Time

**PROJECT: IM-0055-04(108) & IM-0055-03(093) / 107797301 & 302 –
Panola and Yalobusha Counties**

The calendar date for completion of work to be performed by the Contractor for this project shall be **September 28, 2018** which date or extended date as provided in Subsection 108.06 shall be the end of contract time. It is anticipated that the Notice of Award will be issued no later than **July 10, 2018** and the effective date of the Notice to Proceed / Beginning of Contract Time will be **July 25, 2018**.

Should the Contractor request a Notice to Proceed earlier than **July 25, 2018** and it is agreeable with the Department for an early Notice to Proceed, the requested date will become the new Notice to Proceed date.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 813

CODE: (SP)

DATE: 06/14/2018

SUBJECT: Scope of Work

**PROJECT: IM-0055-04(108) & IM-0055-03(093) / 107797301 & 302 –
Panola and Yalobusha Counties**

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

The work to be accomplished using the pay items and corresponding specifications set forth in this contract, which is for the rejuvenating fog sealing of Interstate 55, beginning 0.3 miles North of SR 330 in Yalobusha County and going northerly for approximately 27.1 miles to Cobb Road in Panola County.

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

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

Work on the project shall consist of the following:

1. Brooming, or other approved method of cleaning the existing asphalt roadway is required prior to placing the rejuvenating fog seal.
2. The existing raised pavement markers shall remain in place.
3. Before placing rejuvenating fog seal, the temperature shall be 70°F and rising, and no threat of rain in the forecast.
4. The rejuvenating fog seal shall cover the existing OGFC asphalt surface course. The rejuvenating fog seal shall be completely dry before turning traffic.
5. Placement of Temporary Traffic Stripe daily as per Section 618 of the Standard Specification.

6. Removal of cold plastic traffic stripe from bridge decks. Traffic stripe shall be removed by water blasting or other non-destructive methods.
7. Place permanent pavement markings (double drop thermoplastic striping and red-clear reflective high performance raised markers) as required.

There is 5,190 linear feet of bridge deck in Panola County and 2,240 linear feet of bridge deck in Yalobusha County.

Maximum lane closure allowed is three (3) miles. A three (3) mile interval is required between work zones in adjacent lanes in the same direction of travel. A two (2) mile interval is required between work zones in the same lane in the same direction of travel.

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 814

CODE: (SP)

DATE: 06/14/2018

SUBJECT: Fuel Adjustment for Rejuvenating Fog Seal

**PROJECT: IM-0055-04(108) & IM-0055-03(093) / 107797301 & 302 –
Panola and Yalobusha Counties**

Bidders are advised that the fuel adjustment factor for bituminous material Grade CMS-1PF will be adjusted using the prices shown for Grade CSS-1.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-410-2

CODE: (SP)

DATE: 06/13/2018

SUBJECT: Rejuvenating Fog Seal

**PROJECT: IM-0055-04(108) & IM-0055-03(093) / 107797301 & 302 –
Yalobusha and Panola Counties**

Section 410, Bituminous Surface Treatment, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-410.01--Description. After the paragraph in Subsection 410.01 on page 313, add the following.

When specified on the plans or in the contract documents, this work may require the placement of a rejuvenating fog seal coat on an existing surface. The rejuvenating fog seal shall be placed at locations shown on the plans or as directed by the Engineer.

907-410.03--Construction Requirements. After Subsection 410.03.7 on page 319, add the following.

907-410.03.8--Rejuvenating Fog Seal. The placement of the rejuvenating fog seal shall be in accordance with the requirements set forth in Subsections 410.03.2, 410.03.3, 410.03.5, and 410.03.7, as applicable.

The rejuvenating fog seal shall be placed at a rate of 0.11 gallons per square yard, or as directed by the Engineer.

907-410.04--Method of Measurement. After the last paragraph of Subsection 410.04 on page 319, add the following.

Accepted quantities for asphalt for rejuvenating 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.

907-410.05--Basis of Payment. After the paragraph in Subsection 410.05 on page 319, add the following.

Asphalt for rejuvenating fog seal, measured as prescribed above, 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 rejuvenating fog seal, and all incidentals necessary to complete the work.

After the last pay item listed on page 319, add the following.

907-410-D: Asphalt for Rejuvenating Fog Seal, CMS-1PF - per gallon

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-702-3

CODE: (SP)

DATE: 06/13/2017

SUBJECT: Rejuvenating Fog Seal

**PROJECT: IM-0055-04(108) & IM-0055-03(093) / 107797301 & 302 –
Yalobusha and Panola Counties**

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

907-702.07--Emulsified Asphalt. After the last paragraph in Subsection 702.07 on page 724, and add the following.

CMS-1PF shall conform to the requirements of Subsection 907-702.12, Table VII.

907-702.12--Tables. After Table VI in Subsection 702.12 on page 730, add the following.

**TABLE VII
SPECIFICATION FOR REJUVENATING FOG SEAL**

Test Requirements	CMS-1PF		Test Method
	Min.	Max.	
Viscosity, Saybolt Furol, @ 25°C, Sec.	10	100	AASHTO T 72
Storage Stability Test, 24 hr, %	-	1	AASHTO T 59
Oil Distillate, %	-	0.5	AASHTO T 59
Sieve Test, % *	-	0.1	AASHTO T 59
Residue by Distillation, %	30 ⁽¹⁾	-	AASHTO T 59
Test on Residue from Distillation			
Penetration @ 4°C, 200g, 60s	30	-	AASHTO T 49
MSCR @ 52°C, Jnr @ 3.2/kPa	-	2.0	AASHTO T 350
Polymer Properties⁽²⁾			
Swelling in rejuvenating agent, % max weight increase: 48 hrs	-	40	ASTM D471 Modified ⁽²⁾
Tensile Strength (psi)	800	-	ASTM D412a Modified ⁽²⁾
Glass Transition Temperature (Tg) – Midpoint by DSC (°C)	0	-	ASTM D7426 Modified ⁽²⁾
Latex Density at 23°C (g/cm ³)	1.00	1.05	ASTM D6937 Modified ⁽²⁾
Latex pH	6.0	8.0	ASTM E70 Modified ⁽²⁾
Test on Rejuvenating Agent			
Flash Point, COC, °F	380	-	ASTM D92
Viscosity, 140 °F, cSt	50	175	ASTM D2170
Saturate, %w	-	30	ASTM D2007
Asphaltenes, %w	-	1.0	ASTM D2007
Test on Residue from RTFO			
Weight change, %w	-	6.5	ASTM D2872
Viscosity Ratio (RTFO/Orig.)	-	3	ASTM D2170

- Exception to AASHTO T59: Bring the temperature on the lower thermometer slowly to 350°F plus or minus 10°F. Maintain this temperature for 20 minutes. Complete the total distillation in 60 plus or minus 5 minutes.

2. For modifications for Polymer Properties testing, refer to Appendix A Test Modifications.
3. The emulsion supplier shall receive quarterly certificates of analysis from both the polymer and rejuvenating agent manufacturers. The COAs will be provided to the agency upon request.

Appendix A Test Modifications

ASTM D471 Standard Test Method for Rubber Property-Effect of Liquids: Modifications for Polymer Testing, Resistance to Swelling:

1. Using a syringe, place 0.8g of latex into an 18 mm diameter DSR mold.
2. Allow the sample to dry at ambient lab conditions (air conditioned) on the bench for 72 hours. Sample should be easily removable from the mold.
3. Take the "button" out of the mold and place the sample into a forced air oven at 40°C (104°F) for 48 hours (on release paper). If at the end of the ambient dry, the sample sticks to the mold, place it into the oven and check it after 1-2 hours.
4. After 48 hours cool and weigh the sample to the nearest 0.0001 gram and record the weight.
5. Put ½ inch of Rejuvenating Agent into a 3 oz penetration tin.
6. Place the "button" on the Rejuvenating Agent, and add another ½ inch Of Rejuvenating Agent, so that the "button" is covered.
7. Put the cap on the penetration tin and place it into the 40°C oven for 48 hours. .
8. Remove the "button" from the Rejuvenating Agent, blot surface of the "button" to remove excess Rejuvenating Agent, cool the "button" to room temperature and weigh it.
9. Calculate weight gain of the "button", express as %.

ASTM D412A Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension:Modifications

1. To prepare the polymer film, dilute the waterborne polymer to 40% Total Solids Content and pour 57g into a Teflon or silicone release mold of dimensions 7'' X 7'' X ¼''.
2. Allow to dry at 23°C (73°F) and 50% RH (controlled conditions) for 7 – 10 days total time, during which time the film should be flipped around once, preferably after 3 or 4 days. The film should be transparent in the end.
3. To drive out any residual water, place the film in an oven at 50°C for 30 min. Dried film thickness should be 25 mil +/- 5 mils. Discard films <20 mil.
4. Cut out dumbbell-shaped test specimens of dimension 75 mm total length, 25 mm mid-section (L) and 4 mm width of mid-section.
5. Grip in Instron machine with gap size 1 inch, use 8 inch/min cross-head speed.

ASTM D7426 Standard Test Method for Assignment of the DSC Procedure for Determining Tg of a Polymer or an Elastomeric Compound: Modifications

Use between 3 – 30 mg dry polymer. Instrument used is TA Q2000 Differential Scanning Calorimeter (DSC). Heating rate is 20°C/min.

ASTM D6937 Standard Test Method for Determining Density of Emulsified Asphalt: Modifications

Replace "Emulsified Asphalt" with "Latex" in text of test method. The testing temperature used should be 25 +/- 3°C. The calculation in Section 7 should be as follows:

Calculation:

$$D = (W_f - W_t) * 0.1$$

$$S.G. = D / 8.337$$

Where: W_f = Weight of filled cup (g)

W_t = Weight of empty cup (g)

**ASTM E70 Standard Test Method for pH of Aqueous Solutions with the Glass Electrode:
Modifications**

A pH meter with automatic temperature measurement should be used in the evaluation with a calomel cell assembly or combination electrode. Calibration should be made using the procedure with the pH meter, according to ASTM method, prior to testing the pH of the latex. In Section 9, the procedure for measuring pH of the latex should be as follows:

- a) Place the electrode and probe into the dispersion that is to be measured and swirl the sample cup or beaker gently. (You may also use the probe in a stirring motion.)
- b) Wait for the reading to stabilize (usually less than a minute) and read/record this value. Note the temperature if not utilizing an ATC probe.
- c) Take the Electrode and ATC probes from the sample and rinse thoroughly with de-ionized water. Pat dry and place back into appropriate solution recommended by electrode manufacturer for storage.

Fog Seal Approximately 27 miles of I-55 from Cobb Road to 0.4 Miles North of SR 330, known as Federal Aid Project Nos. IM-0055-04(108) & IM-0055-03(093) / 107797301 & 302 in Panola & Yalobusha Counties.

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
Roadway Items					
0010	202-B240		22,290	Linear Feet	Removal of Traffic Stripe
0020	618-A001		1	Lump Sum	Maintenance of Traffic
0030	618-B001		2	Square Feet	Additional Construction Signs [\$10.00]
0040	619-A1001		55	Mile	Temporary Traffic Stripe, Continuous White
0050	619-A2001		55	Mile	Temporary Traffic Stripe, Continuous Yellow
0060	619-A3001		55	Mile	Temporary Traffic Stripe, Skip White
0070	619-A5001		17,250	Linear Feet	Temporary Traffic Stripe, Detail
0080	620-A001		1	Lump Sum	Mobilization
0090	626-A001		55	Mile	6" Thermoplastic Double Drop Traffic Stripe, Skip White
0100	626-C002		55	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous White
0110	626-F001		55	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous Yellow
0120	626-G004		17,250	Linear Feet	Thermoplastic Double Drop Detail Stripe, White
0130	627-K001		5,025	Each	Red-Clear Reflective High Performance Raised Markers
0140	907-410-D001	(A2)	118,050	Gallon	Asphalt for Rejuvenating Fog Seal, Grade CMS-1PF