

## 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>6/27/2022</u>	ADDENDUM NO.	_____	DATED	_____
ADDENDUM NO.	_____	DATED	_____	ADDENDUM NO.	_____	DATED	_____
ADDENDUM NO.	_____	DATED	_____	ADDENDUM NO.	_____	DATED	_____

Number

Description

- 1 Revised Table of Contents; Added NTB No. 4307; Added SP 907-804-10; Deleted SP 907-826-1; Revised Bid Items; Amendment EBSx Download Required.

TOTAL ADDENDA: 1

(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.

NHPP-0055-04(120)/ 109139301000

Panola County(ies)

Revised 01/26/2016

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**  
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**PROJECT: NHPP-0055-04(120)/109139301 - Panola**

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

06/27/2022 07:56 AM

## **MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

**SECTION 904 - NOTICE TO BIDDERS NO. 4307**

**CODE: (SP)**

**DATE: 6/24/2022**

**SUBJECT: Pay Item Corrections**

**PROJECT: NHPP-0055-04(120) / 109139301 – Panola County**

Bidders are hereby advised of the following pay item corrections.

Pay Item 907-826-A001, Waterproofing Membrane, 4542 SY, is in error. The correct pay item is 907-824-PP003, Bridge Repair, Deck Surface Sealing, 40,878 SF. Furthermore, Special Provision 907-826-1 is hereby removed from the contract documents.

The bid sheets are correct.

Bidders are further advised the bridge decks shall be sealed, as per the manufacturer's recommendations, using one of the products from the link below.

<https://file-exchange.mdot.state.ms.us/dl/?f=932644e78a7c393b53d965bc1b749ea31e55f498>

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-804-10

CODE: (SP)

DATE: 07/28/2020

SUBJECT: Bridge Deck Overlay

Section 804, Concrete Bridges and Structures, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as modified by this special provision is applicable to Bridge Deck Overlays Only.

**907-804.01--General.** This work consists of placing a concrete overlay over an existing bridge deck or a bridge deck that has been partially removed by hydrodemolition, or other methods of removal, to the line, grade and cross-section shown on the plans or as directed by the Engineer.

**907-804.02--Materials.**

**907-804.02.1--General.** Concrete produced and controlled from this specification will be accepted upon proper certification of concrete production through verification by job site acceptance criteria performed by Department personnel.

The materials for partial depth repair of concrete, when sampled and tested in accordance with Subsection 700.03, shall meet the requirements of the following Subsections:

Portland Cement .....	701.01 and 701.02
Fine Aggregate .....	703.02
Coarse Aggregate .....	703.03
Joint Material .....	707.01, 707.02, and 707.07
Reinforcing Steel .....	711.02
Structural Synthetic Fibers .....	711.04
Liquid Membrane Compound .....	713.01.02
Admixtures .....	713.02
Fly Ash .....	714.05
Water .....	714.01.1 and 714.01.2

**907-804.02.2--Mixture Design.** The concrete mixture shall be designed by a technician holding a current MDOT Certified Class III certification representing the Contractor to meet the requirements set out in the following:

Minimum Cementitious Content .....	564 lbs/cy
Minimum Fly Ash Replacement Required .....	15%
Coarse Aggregate Size .....	#7, #8, or #78
Coarse Aggregate Type .....	see Subsection 907-804.02.2.1
Synthetic Structural Fibers .....	see Subsection 907-804.02.2.2
Total Air Content .....	3 - 6%
Maximum Slump .....	6 inches
Required Compressive Strength .....	2,500 psi in 24 hours

Either a Type F or Type G water reducing chemical admixture shall be used in the concrete mixture. Type S admixtures may be used. No other water reducing chemical admixtures shall be used in the mixture.

**907-804.02.2.1--Coarse Aggregate Requirements.** The coarse aggregate for areas of concrete repair which will be milled to obtain the final grade requirements shall be limestone. All other areas may use either limestone or gravel as the coarse aggregate.

**907-804.02.2.2--Synthetic Structural Fiber Requirements.** Concrete mixture used on bridge decks or for other single areas of concrete repair 25 square feet or greater shall contain synthetic structural fibers added in accordance with the requirements of Subsection 711.04 based on the dosage required for the applicable synthetic structural fiber per the Department's Approved Products List.

**907-804.02.2.3--Basis of Proportioning.** The Contractor shall establish the proportions based on a laboratory trial mixture in accordance with the requirements of Subsection 804.02.10.1.2 with the following exception: the minimum required average strength of the laboratory trial mixture listed in Subsection 804.02.10.1.2.e shall not be required.

**907-804.02.3--Sampling & Testing.** Sampling and testing of plastic concrete will be performed by Department personnel having the applicable certifications in Table 2 in Section 804 and in accordance with the applicable test methods listed in Table 1 in Section 804 at the following sampling and testing frequency.

The slump, temperature, and total air content will be determined on the first batch each production day and other subsequent batches until requirements for these plastic properties are met. Slump, temperature, and total air content shall be determined at a minimum frequency of one (1) per each 50 cubic yards of concrete repair, or fraction thereof, but more often if the slump, temperature, or total air content are in question on subsequent batches. Once a batch has been determined to meet the requirements for slump, temperature, and total air content, additional testing on the batch is not required.

At least three concrete test cylinders for acceptance will be cast per day per section of lane for which an individual lane closure is affected and concrete is replaced. The slump, temperature, and total air content will be determined for the concrete test cylinders. The concrete test cylinders will be made from approximately the last batch of concrete produced each day.

Compressive strength cylinders for opening to traffic shall be cast and tested by the Contractor in accordance with Subsection 804.03.

**907-804.02.4--Basis of Acceptance.** The slump of plastic concrete mixture shall meet the requirements of Subsection 907-804.02.2 with the minus slump limits of AASHTO M157.

Sampling shall meet the requirements of AASHTO T141. For additional information concerning sampling concrete, see the Department's *Concrete Field Manual*.

The total air content of the plastic concrete mixture shall meet the requirements of Subsection 907-

## 804.02.2.

The maximum plastic concrete acceptance temperature shall be 90°F. Plastic concrete with a temperature exceeding 90°F shall be rejected and not used in Department work. The minimum acceptance temperature shall meet the requirements of Subsection 804.03.16.1 for Cold Weather Concreting.

A check test shall be made on another portion of the obtained sample before rejection of any batch.

The compressive strength shall meet the requirements of Subsection 907-804.02.2.

**907-804.03--Construction Requirements.** When the overlay is to be placed on a bridge deck that has been partially removed, the bridge deck overlay shall begin as soon as practical following the deck removal and cleaning of the bridge deck. Any bridge deck repairs shall be performed prior to or concurrent with the placement of the overlay. Any damage to the reinforcing steel as a result of the Contractor's operations shall be corrected to the satisfaction of the Engineer at no additional costs to the State.

During placement of the overlay, the concrete shall be thoroughly consolidated by internal vibration. Finishing may be performed by either machine or hand methods. The concrete shall be screeded longitudinally unless otherwise permitted by the Engineer. The screed shall be metal of a type normally used on bridge deck pours. The overlay shall be checked longitudinally and transversely in order to meet a 1/8-inch in 10 feet smoothness requirement.

After the screeding and floating has been completed and while the concrete is still plastic, the surface of the concrete shall be tested with a 10-foot straightedge. For this purpose the Contractor shall furnish and use an accurate 10-foot straightedge swung from handles three feet longer than one-half the width of the slab. The straightedge shall be held in contact with the surface in successive positions parallel to the road centerline and the whole area gone over from one side of the slab to the other as necessary. Advance along the road shall be in successive stages of not more than one-half the length of the straightedge. All depressions found shall be immediately filled with freshly mixed concrete, struck off, consolidated, and refinished. High areas shall be cut down and refinished. Special attention shall be given to assure that the surface across joints meets any requirements for smoothness. Straightedge testing and surface corrections shall continue until the entire surface is found to be free from observable departures from the straightedge, and the slab conforms to the required grade and cross section.

The concrete surface shall be protected from premature drying by covering as soon as possible with wetted burlap. It shall be cured with Class 3 burlap, or its equivalent, covered with plastic sheeting. The burlap shall be kept continuously and thoroughly wet. Careful attention shall be given to the proper curing and protection of the concrete, and curing shall continue until the 2,500 psi strength is attained. Twelve (12) test cylinders for verifying strength requirements shall be made and cured under the same conditions as the bridge deck. Three (3) test cylinders shall be tested and the results averaged to represent a test break. Traffic shall not be allowed on the concrete overlay until the required 2,500 psi strength is attained.

**907-804.04--Method of Measurement.** Bridge deck overlay concrete, complete and accepted, will be measured by the cubic yard, determined by calculating the theoretical volume of bridge

deck overlay plus any additional concrete placed. Additional concrete placed with the overlay will be calculated by subtracting the theoretical volume of bridge deck overlay from the total ticketed volume of concrete delivered minus the volume estimated by the Engineer of any wasted concrete.

**907-804.05--Basis of Payment.** Bridge deck overlay concrete, measured as prescribed above, will be paid for at the contract unit price per cubic yard, which price shall be full compensation for all materials, tools, equipment, labor, and incidentals necessary to complete the work.

Payment will be made under:

907-804-O: Bridge Deck Overlay Concrete

- per cubic yard



Bridge Repair on I-55 over Long Creek (Bridge Nos. 237.7A & 237.7B), known as Federal Aid Project No. NHPP-0055-04(120) / 109139301 in Panola County.

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
<b>Roadway Items</b>					
0010	615-B001	(S)	407	Linear Feet	Precast Concrete Median Barrier
0020	618-A001		1	Lump Sum	Maintenance of Traffic
0030	619-A1010		1,460	Linear Feet	Temporary Traffic Stripe, Continuous White, Type 2 Tape
0040	619-A2010		1,460	Linear Feet	Temporary Traffic Stripe, Continuous Yellow, Type 2 Tape
0050	619-A3009		1,460	Linear Feet	Temporary Traffic Stripe, Skip White, Type 2 Tape
0060	619-C6001		20	Each	Red-Clear Reflective High Performance Raised Marker
0070	619-D1001		137	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
0080	619-D2001		366	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
0090	619-E1001		1	Each	Flashing Arrow Panel, Type C
0100	619-G4005		108	Linear Feet	Barricades, Type III, Single Faced
0110	619-G7001		7	Each	Warning Lights, Type "B"
0120	620-A001		1	Lump Sum	Mobilization
0130	626-A002		1,460	Linear Feet	6" Thermoplastic Double Drop Traffic Stripe, Skip White
0140	626-C001		1,460	Linear Feet	6" Thermoplastic Double Drop Edge Stripe, Continuous White
0150	626-F002		1,460	Linear Feet	6" Thermoplastic Double Drop Edge Stripe, Continuous Yellow
0160	907-619-E3001		5	Each	Changeable Message Sign
<b>Bridge Items</b>					
0170	907-505-A001		4,542	Square Yard	Grinding Concrete Bridge Deck
0180	907-808-A003	(S)	30	Linear Feet	Joint Repair Without Epoxy
0190	907-823-A002		30	Linear Feet	Preformed Joint Seal, Type II
0200	907-824-PP003		4	Square Feet	Bridge Repair, Epoxy Repair, Per Plans
0210	907-824-PP003		1,521	Square Feet	Bridge Repair, Removal of Bridge Deck and Overhang, Per Plans
0220	907-824-PP003		1,521	Square Feet	Bridge Repair, Replacement of Bridge Deck and Overhang, Per Plans
0222	907-824-PP003		40,878	Square Feet	Bridge Repair, Deck Surface Sealing
0230	907-824-PP006		20	Each	Bridge Repair, Install State Furnished Bearing Stiffeners, Per Plans
0240	907-824-PP006		2	Each	Bridge Repair, Installation of State Furnished Top Flange Splice Plates, Per Plans
0250	907-824-PP006		7	Each	Bridge Repair, Removal and Re-Installation of Diaphragms, Per Plans
0260	907-824-PP006		2	Each	Bridge Repair, Temporary Shoring and Bracing, Per Plans
0270	907-824-PP008		140	Linear Feet	Bridge Repair, Installation of State Furnished Steel Girder, Per Plans
0280	907-824-PP008		140	Linear Feet	Bridge Repair, Removal of Steel Girder, Per Plans