

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION
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03/18/2021 01:04 PM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3082

CODE: (SP)

DATE: 03/18/2021

SUBJECT: Contract Time

PROJECT: STP-9401-00(002) / 108286301 – Jackson County

The completion of work to be performed by the Contractor for this project will not be a specified date but shall be when all allowable working days are assessed, or any extension thereto as provided in Subsection 108.06. It is anticipated that the Notice of Award will be issued no later than **April 13, 2021** and the date for Notice to Proceed / Beginning of Contract Time will be **June 14, 2021**.

Should the Contractor request a Notice to Proceed earlier than **June 14, 2021** and it is agreeable with the Department for an early Notice to Proceed, the requested date will become the new Notice to Proceed date. Regardless of whether or not an early Notice to Proceed is granted, contract time will start at the original Notice to Proceed date.

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3085

CODE: (SP)

DATE: 03/18/2021

SUBJECT: Pay Item Correction

PROJECT: STP-9401-00(002) / 108286301 – Jackson County

The Bidder's attention is called to the Summary of Quantities in the plans.

Pay Item 202-B240, Removal of Traffic Stripe, 5000 LF, was inadvertently omitted from the plans and have been added to the bid sheets.

Bidders are also advised that removal of existing raised pavement markers will be considered an absorbed item of work.

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:

Table listing materials and their corresponding 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:

Table listing mixture design requirements: 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 Preservation on SR 617 (Litton Access) over the CSX Railroad (Bridge No. 0.9), known as Federal Aid Project No. STP-9401-00(002) / 108286301 in Jackson County.

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
Roadway Items					
0010	202-B240		5,000	Linear Feet	Removal of Traffic Stripe
0020	618-A001		1	Lump Sum	Maintenance of Traffic
0030	619-A1002		4,000	Linear Feet	Temporary Traffic Stripe, Continuous White
0040	619-A2002		2,000	Linear Feet	Temporary Traffic Stripe, Continuous Yellow
0050	619-A3002		3,000	Linear Feet	Temporary Traffic Stripe, Skip White
0060	619-D1001		54	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
0070	619-D2001		522	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
0080	619-E1001		3	Each	Flashing Arrow Panel, Type C
0090	619-G4005		36	Linear Feet	Barricades, Type III, Single Faced
0100	619-G5001		125	Each	Free Standing Plastic Drums
0110	619-G7001		8	Each	Warning Lights, Type "B"
0120	620-A001		1	Lump Sum	Mobilization
0130	627-K001		75	Each	Red-Clear Reflective High Performance Raised Markers
0140	627-L001		50	Each	Two-Way Yellow Reflective High Performance Raised Markers
0180	907-619-E3001		2	Each	Changeable Message Sign
0182	907-899-A001		1	Lump Sum	Railway-Highway Provisions
ALTERNATE GROUP AA NUMBER 1					
0190	907-624-A003		3,000	Linear Feet	6" Inverted Profile Thermoplastic Traffic Stripe, Skip White, High Contrast
0200	907-624-B003		4,000	Linear Feet	6" Inverted Profile Thermoplastic Traffic Stripe, Continuous White, High Contrast
0210	907-624-D001		2,000	Linear Feet	6" Inverted Profile Thermoplastic Traffic Stripe, Continuous Yellow, High Contrast
ALTERNATE GROUP AA NUMBER 2					
0220	628-G001		3,000	Linear Feet	6" High Performance Cold Plastic Traffic Stripe, Skip White
0230	628-H001		4,000	Linear Feet	6" High Performance Cold Plastic Traffic Stripe, Continuous White
0240	628-J001		2,000	Linear Feet	6" High Performance Cold Plastic Traffic Stripe, Continuous Yellow
Bridge Items					
0248	201-D002		5	Acre	Random Clearing
0250	815-A007	(S)	80	Ton	Loose Riprap, Size 300
0260	815-E001	(S)	46	Square Yard	Geotextile under Riprap
0262	907-202-B001		1,246	Square Yard	Removal of Bridge Deck, Hydrodemolition
0264	907-417-A001		7,174	Square Yard	Polymer Cement Surface System
0266	907-420-A001		10,800	Pounds	Undersealing
0268	907-804-O001	(S)	35	Cubic Yard	Bridge Deck Overlay Concrete

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0270	907-808-A002	(S)	1,776	Linear Feet	Joint Repair
0280	907-823-A001		1,072	Linear Feet	Preformed Joint Seal, Type I
0290	907-823-B001		1,845	Linear Feet	Saw Cut, Type I
0300	907-824-PP003		752	Square Feet	Bridge Repair, Epoxy Repair
0310	907-824-PP003		299	Square Feet	Bridge Repair, Removal Of Bridge Deck
0320	907-824-PP006		312	Each	Bridge Repair, Bearing Replacement
0330	907-824-PP006		14	Each	Bridge Repair, Cap Cleaning

