

## 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>8/13/2021</u>	ADDENDUM NO.	_____	DATED	_____
ADDENDUM NO.	_____	DATED	_____	ADDENDUM NO.	_____	DATED	_____
ADDENDUM NO.	_____	DATED	_____	ADDENDUM NO.	_____	DATED	_____

Number

Description

1 Revised Notice To Bidders No. 3534; 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.

STBG-9999-01(402)/ 108620301000

Tishomingo County(ies)

Revised 01/26/2016

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION

**SECTION 904 -NOTICE TO BIDDERS NO. 3534**

**CODE: (SP)**

**DATE: 07/06/2021**

**SUBJECT: Scope of Work**

**PROJECT: STBG-9999-01(402) / 108620301 – Tishomingo County**

The contract documents do not include an official set of construction plans but may, by reference, include some Standard Drawings when so specified in a Notice to Bidders entitled, "Standard Drawings".

Minor changes in detail of design or construction procedure may be authorized by the Director of Structures, State Bridge Engineer provided such changes will not be cause for contract price adjustment. Work for which no pay item is provided will not be paid for directly and shall therefore be considered an absorbed item of work.

It shall be the responsibility of the Contractor to protect existing structures from damage which might occur during construction. The Contractor shall replace or repair, as directed by the Engineer, any structures damaged by the Contractor during the life of the contract. No payment will be made for replacement or repair of damaged items.

All details are based on the dimensions shown on the original plans for the existing structure. The Contractor shall be responsible for adjusting the elements of the new construction to ensure a proper fit with the existing structure. The Contractor shall verify all dimensions of the existing structure prior to beginning work.

During construction, care shall be exercised to ensure that no debris falls into the roadway crossing below the structures. All debris, including any material that has accumulated on the bridge caps, shall become the property of the Contractor and shall be removed from the construction site.

Work on the project shall consist of the following:

<b>Bridge ID</b>	<b>Structure #</b>	<b>County</b>	<b>Route</b>	<b>Feature Intersected</b>
14750	310036507101780	Tishomingo	SR 365	Little Yellow Creek
14751	310036507101810	Tishomingo	SR 365	Caney Creek

## **Joint Repair & Sealing**

The joint repair shall include installation of the preformed joint seal and other necessary work per the included standard drawings or as directed by the Engineer. All existing joint armor shall remain in place. All concrete approach slab joints shall be sealed. If the bridge has an asphalt approach, the joint between the asphalt and concrete shall not be disturbed.

The joints shall be sealed by one of the three approved Manufacturers listed in Special Provision 907-823 and installed according to the Manufacturer's specifications.

### **Cap Cleaning**

The surface of all caps shall be cleaned to the satisfaction of the Engineer. All large debris shall be removed by hand. All other debris (dirt and rust) shall be removed by pressure washing to the satisfaction of the Project Engineer. All pressure washers shall be able to maintain 3,500 psi. This item of work shall be paid for under pay item 907-824-PP: Bridge Repair, Cap Cleaning.

### **Field Painting**

Bearings located at the end bents of Bridge 14750 and 14751 shall be cleaned and coated in an encapsulating paint. All pack rust and scale within the designated areas shall be removed by using small hand tools, mechanical process, or needle gun. All areas required to be painted containing grease films after the initial cleaning shall be cleaned with a biodegradable solvent. All debris removed from the existing structure shall become property of the Contractor and shall be disposed of properly. The Contractor shall provide technical data for the proposed encapsulating paint to be used on this project to the Project Engineer for approval by the Director of Structures, State Bridge Engineer. New paint shall be applied by hand, with either a brush or roller. This item of work shall be paid for under pay item 907-824-PP: Bridge Repair, Field Painting.

### **Bearing Replacements**

All bearings shall be removed and replaced according to Bearing Assembly Details. All structural steel shall conform to ASTM A709 grade 50. All steel shall be new. Extreme care shall be exercised in removing the existing bearing plates that are welded to the ¾-inch anchor plates embedded in the prestressed beams. Existing anchor bolts shall be ground to ¼" below the concrete surface and grouted with epoxy mortar.

The bottom of the existing anchor plates shall be finished smooth to accommodate the new steel plates and painted with approved encapsulating paint. All pack rust and scale within the designated areas shall be removed by using small hand tools, mechanical process, or needle gun. All areas required to be painted containing grease films after the initial cleaning shall be cleaned with a biodegradable solvent. All debris removed from the existing structure shall become property of the Contractor and shall be disposed of properly. The Contractor shall provide technical data for the proposed encapsulating paint to be used on this project to the Project Engineer for approval by the Director of Structures, State Bridge Engineer. New paint shall be applied by hand, with either a brush or roller.

After the pads are vulcanized to the new steel plates, the new steel plates shall be cleaned and then painted with one shop coat of inorganic zinc, one field intermediate coat of acrylic latex, and one field top coat of acrylic latex per Section 814 of the Standard Specifications.

Prior to any construction or fabrication, the Contractor shall comply with the submittal requirements listed in the bearing replacement details. The Contractor shall be responsible for adjusting the elements of the new construction to ensure a proper fit with the existing structure.

The Contractor shall provide adequate bracing and jacking arrangements as required to replace the

existing bearings. The beam end shall only be raised to ¼" from its original position. Traffic shall be maintained on the bridge during the duration of the repair.

The Contractor shall employ the service of a Mississippi Registered Professional Engineer who is knowledgeable in the field of Bridge Design. A complete set of bracing and jacking arrangement plans along with design calculations shall be submitted to the Director of Structures, State Bridge Engineer through the Project Engineer for review prior to construction and shall bear the design engineer's seal.

Jacks shall be coupled to a common manifold. Jacking point shall be under the bottom flange of the beam at the bent and no jacking points will be allowed under any diaphragm or bay. After the beam is raised into position, temporary blocking shall be provided to secure the beam in this position while work is being performed. Temporary blocking points shall be under the bottom flange of the beam at the bent and no temporary blocking will be allowed under any diaphragm or bay.

Any damage to the bridge resulting from uneven or improper jacking shall be repaired by the Contractor at no additional cost to the State.

Payment for this work shall be made under pay item 907-824-PP: Bridge Repair, Bearing Replacement.

#### **Epoxy Repairs**

Concrete spalls on the bridge shall be repaired according to the Epoxy Repair Details to the satisfaction of the Project Engineer. Repair areas shall include but are not limited to cap bearing areas.

All areas of the bridge repaired with epoxy mortar shall be restored to the original dimensions and details as shown in the information plans, unless noted otherwise.

#### **Materials:**

- a. Epoxy Resin: Resin shall be selected from the MDOT approved materials list
- b. Silica Sand: Silica sand material shall be bagged general purpose blast cleaning sand
- c. Epoxy Mortar Mix: Epoxy mortar mix shall consist of part liquid epoxy and part clean, dry sand mixed in the ratio recommended by the manufacturer

#### **Application:**

- a. A representative of the epoxy manufacturer must be present for sufficient time to ensure the Contractor is properly schooled in the use of the epoxy materials.
- b. Prior to placement of the mortar mix, the prepared surface shall be lightly primed with neat epoxy.
- c. Curing time shall be in accordance with manufacturer's recommendations.

All work and material required to perform this item of work shall be paid for under pay item 907-824-PP: Bridge Repair, Epoxy Repair.

This item shall be bid such that this item may be increased, decreased, or eliminated as directed by the Project Engineer.

**Contractor Submittals**

Prior to any construction or fabrication, the Contractor shall comply with the following submittal requirements.

Field Verification Submittal: All dimensions of the existing bearing assemblies and caps shall be field verified.

Shop Drawing Submittal: The Contractor shall submit shop drawings of the new bearing assemblies and anchor bolts for approval by the Director of Structures, State Bridge Engineer for approval.

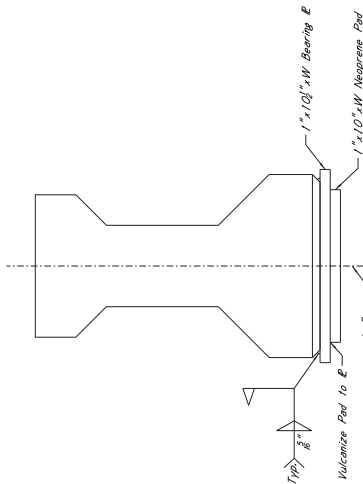
Welding Submittal:

- a. Certification for all welders
- b. Welding procedures
- c. Procedure for storage and handling of welding electrodes, wires, and flux
- d. A flux recovery procedure if applicable

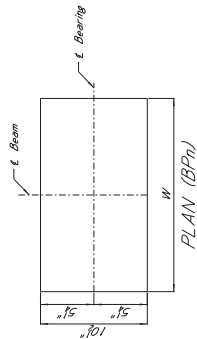
Jacking Plan Submittal: The Contractor shall submit a set of bracing and jacking arrangement plans along with design calculations. The Contractor shall employ the services of a Mississippi registered Professional Engineer knowledgeable in the field of bridge design. The submitted plans shall bear the seal of the Professional Engineer.

**Traffic Control Plan**

The Contractor shall erect and maintain construction signing and provide all signs and traffic handling devices necessary to safely maintain traffic around or through the work areas in accordance with the Traffic Control Plan. Payment shall be included in the price bid for pay item 618-A: Maintenance of Traffic.



ELEVATION BEARING ASSEMBLY



PLAN (BPR)

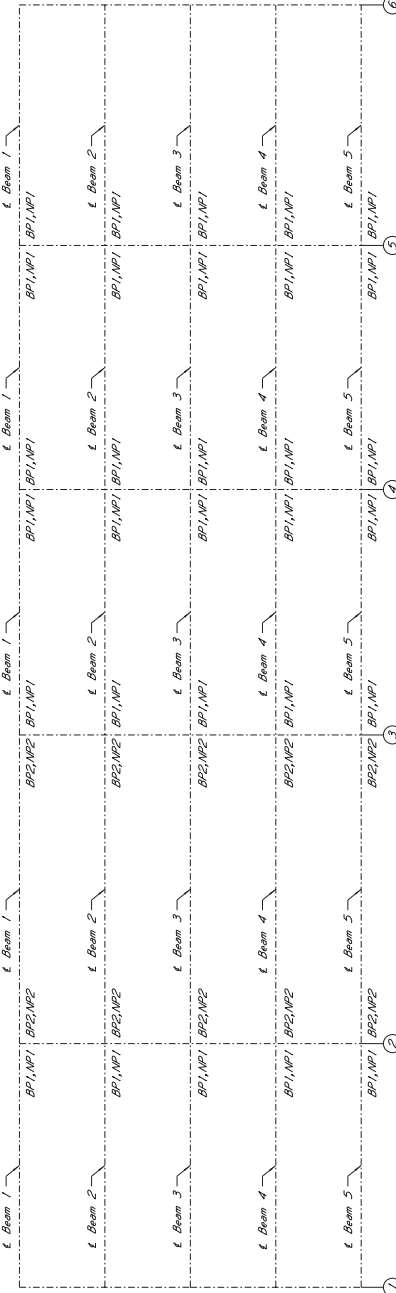
ELEVATION (BPR)

PLAN (NPR)

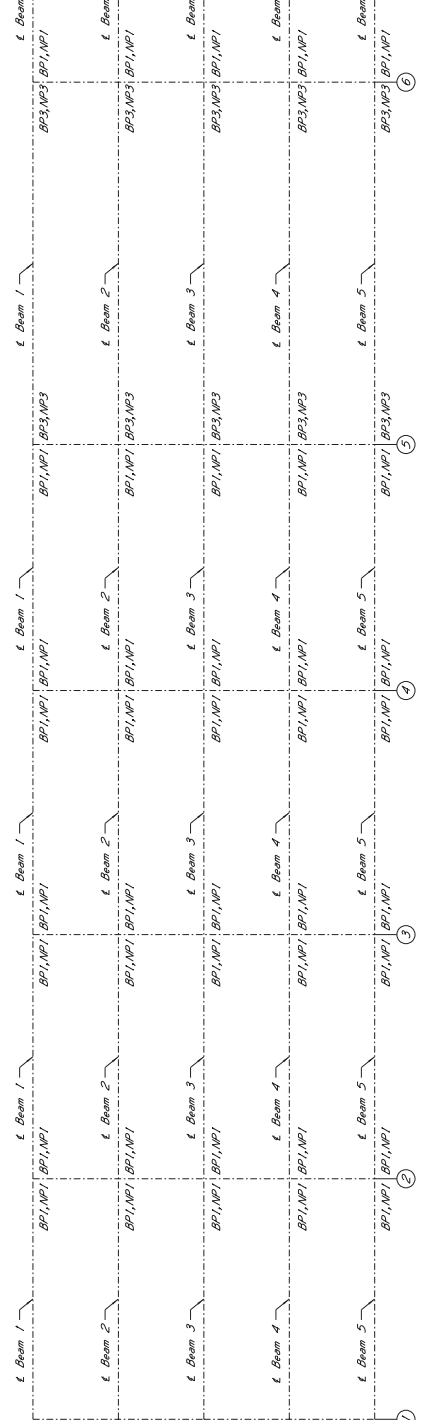
ELEVATION (NPR)

BEARING PLATE DIMENSIONS TABLE			
Bearing Plate	L	W	T
BPR	10'	1'-7"	1"
BPR	10'	1'-9"	1"
BPR	10'	1'-11"	1"

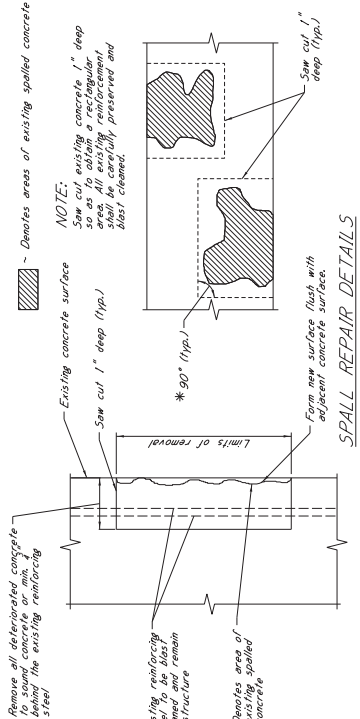
NEOPRENE PAD DIMENSIONS TABLE			
Neoprene Pad	L	W	T
NPR	10'	1'-3"	1"
NPR	10'	1'-5"	1"
NPR	10'	1'-7"	1"



BRIDGE A STA. 325+52 ACROSS LITTLE YELLOW CREEK (BRIDGE 14750, BR. 17.8, SR 365, TISHOMINGO COUNTY)



BRIDGE B STA. 341+27 ACROSS CANEY CREEK (BRIDGE 14751, BR. 18.1, SR 365, TISHOMINGO COUNTY)



SPALL REPAIR DETAILS