

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>9/19/2025</u>	ADDENDUM NO.	<u>4</u>	DATED	<u>10/3/2025</u>
ADDENDUM NO.	<u>2</u>	DATED	<u>9/22/2025</u>	ADDENDUM NO.	<u>5</u>	DATED	<u>10/9/2025</u>
ADDENDUM NO.	<u>3</u>	DATED	<u>9/26/2025</u>	ADDENDUM NO.	<u>6</u>	DATED	<u>10/17/2025</u>

Number	Description	TOTAL ADDENDA: <u>6</u>
1	Postponed til October 3, 2025 Letting; Amendment EBSx Download Required.	(Must agree with total addenda issued prior to opening of bids)
2	Revised Postponed til October 3, 2025 Letting; Amendment EBSx Download Required.	Respectfully Submitted,
3	Revised Table of Contents; Revised Advertisement; Revised NTB No. 7311; Added SP 907-202-9; SP 907-824-4 replaces SP 907-824-3; Revised Bid Items; Revised or Added Plan Sheet Nos. 8001- 8003 & 8005; Amendment EBSx Download Required.	DATE _____
4	Postponed til October 29, 2025 Letting; Amendment EBSx Download Required.	_____ Contractor
5	Revised Table of Contents; Revised Advertisement; Deleted NTB Nos. 5605 w/ Supplement & NTB No. 7077; Deleted OCR-485; Amendment EBSx Download Required.	BY _____ Signature
6	Revised Table of Contents; Revised NTB Nos. 7171 & 7172; SP 907-828-6 replaces SP 907-828-5; Revised Bid Items; Revised or Added Plan Sheet Nos. 8001-8004, 8006 & 8007; Amendment EBSx Download Required.	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-0220-03(038)/ 109677301000 & NHPP-0055-02(283)/ 109678301000

Madison & Hinds County(ies)

Revised 01/26/2016

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
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PROJECT: NHPP-0220-03(038)/109677301 - Hinds
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(REVISIONS TO THE ABOVE WILL BE INDICATED ON THE SECOND SHEET
OF SECTION 905 AS ADDENDA)

10/17/2025 12:34 PM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 7171

CODE: (SP)

DATE: 10/17/2025

SUBJECT: Milestone Completion Date

PROJECT: NHPP-0220-03(038) / 109677301 -- Hinds County
NHPP-0055-02(283) / 109678301—Madison County

This Notice to Bidders ONLY applies to project NHPP-0055-02(283) / 109678301 in Madison County.

Milestone – Interim Completion date. Bidders are advised that this project carries a Project Milestone for **Bridge No. 11.4** that is an interim completion date for completion of all work necessary to reopen the roadway. This work includes signing of the detour, full depth repairs (removal of bridge deck and replacement with High Early Strength Concrete), placement of hybrid polymer concrete overlay, and application of temporary stripe items. The Milestone Completion Date shall be **21 calendar days after the date that the road is shut down as determined by the Engineer.**

The road shall be reopened by the **Milestone Completion Date** as described in the paragraph above. **The Contractor will be allowed to work 24/7 to complete Milestone Work only and with the exception of the restrictions shown in Notice to Bidders No. 7311, Lane Closure Restrictions.**

Should the Contractor complete the milestone work and open Bridge No. 11.4 to normal traffic earlier than the **Milestone Completion Date**, the Contractor will receive an incentive. Should the Contractor fail to complete the milestone work and open Bridge No. 11.4 to normal traffic by the **Milestone Completion Date**, the Contractor will receive a disincentive. The Notice to Bidders entitled “Incentive / Disincentive” further addresses this provision.

Bidders are further advised that the 21 calendar day closure for Milestone work must occur prior to June 15, 2026.

Final Completion Date. Final completion date to complete all remaining work required in the contract shall be as referenced in Notice to Bidders No. 7167, Contract Time.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904- NOTICE TO BIDDERS NO. 7172

CODE: (SP)

DATE: 10/17/2025

SUBJECT: Incentive/Disincentive

PROJECT: NHPP-0220-03(038) / 109677301 – Hinds County
NHPP-0055-02(283) / 109678301 – Madison County

This Notice to Bidders ONLY applies to project NHPP-0055-02(283) / 109678301 in Madison County.

The Department desires to expedite construction on this project in order to minimize the inconvenience to the traveling public and to reduce the time of construction. In order to achieve this goal, an Incentive / Disincentive provision has been established for this contract.

The Incentive/Disincentive will be based on a conditions as defined in the Notice To Bidders entitled “Milestone Completion Date”.

Incentive

The total project incentive payment shall not exceed **\$105,000.00**. The Department will pay the Contractor an incentive payment in the amount of **\$15,000.00** for each Calendar Day the completion of the milestone work as described in Notice to Bidders No. 7171 and opening of traffic actually precedes the Milestone Completion Date.

For purposes of the calculation and the determination of entitlement to the incentive payment stated above, the hours in the selected scheduled work period will not be adjusted for any reason, cause or circumstance whatsoever, regardless of fault, except in the instance of a nationally catastrophic event (e.g., tornado, earthquake, hurricane, named tropical storm, or declared state of emergency).

The parties to this contract anticipate that delays may be caused by or arise from any number of events during the course of the contract, included but not limited to work performed, work deleted, change orders, supplemental agreements, quantity adjustments, delays, disruptions, differing site conditions, utility conflicts, design changes/revisions or defects, extra work, right-of-way issues, permitting issues, actions of suppliers, Subcontractor or other Contractor, actions by third parties, shop drawing approval process delays, plan review and approval process delays, weather, special events, holidays, suspension of Contractor’s operations, or other such events, forces or factors sometimes experienced in highway and bridge construction work. Such delays or events and their potential impact on performance by the Contractor are specifically contemplated and acknowledged by the parties in entering into this contract and shall not extend the milestone completion date. Further, any and all cost or impacts whatsoever incurred by the Contractor in accelerating the Contractor’s work to overcome or absorb such delays or event impacts in an effort

to complete the contract by the milestone completion date, regardless of whether the Contractor successfully does so or not, shall be the sole responsibility of the Contractor in every instance.

If a catastrophic event occurs through no fault of the Contractor (e.g., tornado, earthquake, hurricane, named tropical storm, or declared state of emergency) directly and substantially affecting the Contractor's operations on the contract, the Contractor shall provide any and all documentation to support their justification to extend the completion date to the Department within fourteen (14) calendar days of the event. The Department will have fourteen (14) calendar days to review the Contractor's request to extend the milestone completion date. If the Contractor and the Department are unable to reach an agreement, the Department shall unilaterally determine the number of calendar days to extend the milestone completion date reasonably necessary and due solely to the catastrophic event and the Contractor shall have no right whatsoever to contest such determination, save and except that the Contractor establishes that the number of calendar days determined by the Department was arbitrary or without reasonable basis.

The Contractor shall have no rights under the contract to make any claims arising out of this Incentive/Disincentive provision except as is expressly set forth herein.

As conditions precedent to the Contractor's entitlement to any incentive, the Contractor must:

- (1) Actually complete the milestone work and opening of traffic before the time set out in the contract documents. This shall include all milestone work as shown in Notice to Bidders No. 7171.
- (2) The Contractor shall notify the Department in writing within fifteen (15) calendar days of receiving written verification by the Engineer that the required work was completed before the specified time and that the Contractor elects to be paid the Incentive which the Contractor is eligible to paid based on completing the required work before the specified time, and such written notice shall constitute full and complete waiver, release and acknowledgement of satisfaction by the Contractor of any and all claims, causes of action, issues, demands, disputes, matters or controversies, of any nature or kind whatsoever, known or unknown, against the Commission, its employees, officers, agents, representatives, consultants, and their respective employees, officers and representatives, the Contractor has or may have as to the work performed. Work deleted, change orders, supplemental agreements, quantity adjustments, delays, disruptions, differing site conditions, utility conflicts, design changes/revisions or defects, extra work, right-of-way issues, permitting issues, actions of suppliers, Subcontractor or other Contractor, actions by third parties, shop drawing approval process delays, plan review and approval process operations, extended or unabsorbed home office of job site overhead, lost profits, prime mark-up on Subcontractor work, acceleration cost, any and all direct and indirect costs, any other adverse impacts, events, conditions, circumstances or potential damages, on or pertaining to, or as to arising out of the contract. This waiver, release and acknowledgement of satisfaction shall be all-inclusive and absolute, save any change orders, supplemental agreements that may be pending on the milestone completion date, which will be resolved within fifteen (15) days and prior to the eligible payment to the Contractor of the Incentive.

Should the Contractor fail to actually complete the required milestone work on or before the specified time, or should the Contractor complete the work before the specified time, but fail to timely request the Incentive for any reason, and including but not limited to the Contractor choosing not to fully waive, release and acknowledge satisfaction as set forth in item (2) above, the Contractor shall have no right to any payment whatsoever under this provision.

Disincentive

Should the Contractor fail to complete the work as outlined in Subparagraph (1) under Incentive above within the specified work period, the Department shall deduct **\$15,000.00** for each Calendar Day until the milestone work and opening of traffic is completed as documented by the Project Engineer's concurrence with satisfactory completion, from the monies due the Contractor. This deduction shall be for the Contractor's failing to timely pursue the necessary items of work as outlined in Subparagraph (1) under Incentive above. The maximum disincentive amount shall be **unlimited**. Subsection 108.07 relating to liquidated damages remains in effect. The applicable daily charge will be made for each calendar day after the milestone completion date of the total project.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-828-6

CODE: (SP)

DATE: 10/14/2025

SUBJECT: Hybrid Polymer Concrete Overlay

Sections 907-828, Hybrid Polymer Concrete Overlay, 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 907-828 -- HYBRID POLYMER CONCRETE OVERLAY

907-828.01--General. This work consists of placing a hybrid polymer concrete overlay system over a concrete surface / bridge deck as indicated on the Plans.

The Contractor shall furnish all submittals indicating the materials, equipment, installation plan and supervision required for the application of the hybrid polymer concrete overlay system to the Director of Structures, State Bridge Engineer through the Project Engineer prior to construction.

907-828.02--Materials. The material used for the overlay shall be the following.

Hybrid Polymer CE700
Manufactured by FasTrac Construction Products
www.fastracproducts.com

907-828.03--Construction Requirements. The hybrid polymer concrete (HPC) overlay shall be placed at a thickness such that the original grade of the bridge deck shall be raised by the thickness indicated on the Contract Plans. It shall be the Contractor's responsibility to adjust equipment during placement to ensure that the grade requirements are maintained Hybrid polymer concrete shall not be used for full depth repairs. Hybrid polymer concrete shall not be placed at a thickness greater than three inches (3").

A Manufacturer's representative shall be present for sufficient time to ensure that the Contractor is properly schooled in surface preparation and placement requirements for the overlay.

The hybrid polymer concrete overlay shall have a calcined bauxite topping such that will meet the requirements of Table 1. The calcined bauxite shall be applied by a fully-automated continuous process.

Table 1 Friction Testing Requirements			
Test Measurement	Requirement	Frequency/Application Area	Test Method
Skid Resistance Using Dynamic Friction Tester (12 mph/20 kmh)	min 0.65	1 per 200 lane-feet	ASTM E 1911

Friction test shall be performed in the presence of the Engineer. The Engineer shall be notified at least 48 hours before friction testing and shall occur within 30 days after installation.

907-828.03.1--Preparation.

907-828.03.1.1--Bridge Expansion Joints. All bridge expansion joints shall be protected from being contaminated with the HPC components of epoxy resin binder and calcined bauxite aggregate. The bridge expansion joints shall be sealed with taped during the application of the HPC. Any materials entering the bridge expansion joints during the application of the HPC will be removed by the Contractor prior to opening the bridge to traffic.

907-828.03.1.2--Special Bridge Deck Preparation Adjacent to the Expansion Joints. In preparation for the installation of the HPC, the bridge deck area adjacent to the bridge expansion joint steel headers shall be recessed to a depth range of $\frac{1}{2}$ " to $\frac{3}{4}$ " below the surface of the expansion joint. This bridge deck area shall be ground the entire length along the expansion joints and a width [necessary to achieve the bridge deck smoothness requirements of section 804.03.19.7.4](#) on both sides of the expansion joints. A lightweight non-impacting drum grinder or similar approved apparatus shall be used to achieve the desired recessed profile. Prior to grinding the contractor shall field verify the depth of the reinforcing steel. All damage to the reinforcing steel resulting from the Contractor's operation shall be repaired or replaced at the Contractor's expense as directed by the Engineer.

907-828.03.1.3--Surface Preparation. Any concrete surface to be treated with HPC shall be shot blasted to remove all visible containments and excess cement paste, yield an open pore structure and expose some aggregate within the concrete. Sand blasting is acceptable for patches, headers, vertical surfaces, and corners inaccessible to the shot blaster. All dirt, slurry, curing compound, laitance, and any other debonding material shall be removed from the surface of the concrete. Vehicular traffic shall be kept from the shot blasted surface unless required by the overlay operation and approved by the Engineer. Concrete substrates that have contaminates that may interfere with the bonding or curing of the overlay shall be cleaned prior to placing the overlay, at no additional cost to the Department. Primer and overlay shall only be applied to clean and dry concrete substrate.

907-828.04--Method of Measurement. Hybrid polymer concrete overlay, complete and accepted, will be measured by the cubic yard, determined by calculating the theoretical volume of the overlay plus any additional hybrid polymer concrete placed. Additional hybrid polymer concrete placed with the overlay will be calculated by subtracting the theoretical volume of hybrid polymer concrete overlay from the total ticketed volume of hybrid polymer concrete delivered minus the volume estimated by the Engineer of any wasted hybrid polymer concrete.

907-828.05--Basis of Payment. Hybrid polymer concrete overlay, 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:

907-828-A: Hybrid Polymer Concrete Overlay - per cubic yard

Bridge Repair on I-220 over Lynch Street (Bridge Nos. 0.5A & 0.5B) & on I-55 North to I-220 West (Bridge No. 11.4), known as Federal Aid Project Nos. NHPP-0220-03(038) / 109677301 & NHPP-0055-02(283) / 109678301 in Hinds & Madison Counties.

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
Roadway Items					
0010	202-B240		3,100	Linear Feet	Removal of Traffic Stripe
0020	619-A1003		1,900	Linear Feet	Temporary Traffic Stripe, Continuous White, Paint
0030	619-A2003		1,900	Linear Feet	Temporary Traffic Stripe, Continuous Yellow, Paint
0040	619-A3004		700	Linear Feet	Temporary Traffic Stripe, Skip White, Paint
0050	619-A5002		700	Linear Feet	Temporary Traffic Stripe, Detail, Paint
0060	619-D1001		173	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
0070	619-D2001		412	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
0080	619-G4001		108	Linear Feet	Barricades, Type III, Double Faced
0090	619-G4005		138	Linear Feet	Barricades, Type III, Single Faced
0100	619-G5001		13	Each	Free Standing Plastic Drums
0110	619-G7001		4	Each	Warning Lights, Type "B"
0120	619-G8001		6	Each	Warning Lights, Type "C"
0130	620-A001		1	Lump Sum	Mobilization
0140	699-A001		1	Lump Sum	Roadway Construction Stakes
0150	699-B001		1	Lump Sum	Bridge Construction Stakes
0160	907-618-A001		1	Lump Sum	Maintenance of Traffic
0170	907-618-M2001		750	Hours	Work Zone Law Enforcement [\$60.00]
0180	907-619-E3001		7	Each	Changeable Message Sign
0190	907-626-A008		700	Linear Feet	6" Thermoplastic Double Drop Traffic Stripe, Skip White
0200	907-626-B003		1,900	Linear Feet	6" Thermoplastic Double Drop Traffic Stripe, Continuous White
0210	907-626-E004		1,900	Linear Feet	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
0220	907-626-G006		1,100	Linear Feet	Thermoplastic Double Drop Detail Stripe, White
0230	907-626-G007		300	Linear Feet	Thermoplastic Double Drop Detail Stripe, Yellow
0240	907-627-K001		127	Each	Red-Clear Reflective High Performance Raised Markers
0250	907-627-K002		48	Each	Red-Yellow Reflective High Performance Raised Markers
Bridge Items					
0260	202-B169		116	Linear Feet	Removal of Joint Material
0272	907-202-B004		1	Each	Removal of Bird Debris
0300	907-808-A002	(S)	918	Linear Feet	Joint Repair
0310	907-823-A002		459	Linear Feet	Preformed Joint Seal, Type II
0320	907-823-B002		918	Linear Feet	Saw Cut, Type II
0330	907-824-A003		52	Square Feet	General Epoxy Repair

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0340	907-824-C001		8	Each	Cap Cleaning
0352	907-824-D003		9	Each	Bearing Replacements, Concrete Box Girder
0354	907-824-D003		16	Each	Bearing Replacements, Concrete Box Girder , Dapped Ends
0360	907-824-F001		220	Square Feet	Encapsulating Field Painting
0370	907-824-PP003		310	Square Feet	Bridge Repair, Removal of Bridge Deck
0380	907-824-PP004		1	Lump Sum	Bridge Repair, Temporary Shoring
0390	907-824-PP006		23	Each	Bridge Repair, Welding Repair
0400	907-824-PP007		2	Cubic Yard	Bridge Repair, Elastomeric Concrete
0408	907-824-PP007		8	Cubic Yard	Bridge Repair, High Early Strength Concrete
0410	907-824-PP008		1,280	Linear Feet	Bridge Repair, Class 2 Spray Finish
0412	907-824-PP008		185	Linear Feet	Bridge Repair, Clean Joint Assembly
0420	907-824-PP008		227	Linear Feet	Bridge Repair, Endwall Repair
0430	907-828-A001	(S)	151	Cubic Yard	Hybrid Polymer Concrete Overlay



ADDENDUM

DESIGNED BY: JACOB FRIESS

DETAILED BY: JACOB FRIESS

CHECKED BY: ALEX HAWKINS

DATE: 2024-10-23 13:05:53

FMS CON: 109678/301000

PROJECT NO.: NHP-0055-02(283)

COUNTY: MADISON

DETAILED INDEX (BRIDGE)

DIR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.
DEP. DIR OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - MICAH DEW, P.E.

WK. NO.
DI-BR-1

SHEET NO.
8001

DESCRIPTION OF SHEETS - BRIDGE PRESERVATION

DETAILED INDEX (BRIDGE)

I-55/I-220W SOUTH TO WEST RAMP OVER I-55 ~ BRIDGE AT STA. 25+78.681

GENERAL NOTES & ESTIMATED QUANTITIES

1 SHEET LEFT INTENTIONALLY BLANK

1 PLAN OF DECK REPAIR DETAILS

BEARING REPLACEMENT DETAILS

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EPOXY REPAIR DETAILS

INFORMATION PLANS

DI-BR-1

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8009-8021

BRIDGE DIVISION			
REVISIONS			
DATE	SHEET NO.	DESCRIPTION	BY
9/24/2025	8003	REVISED TEMPORARY SHORING NOTES	JAF
9/24/2025	8002	UPDATED PAY ITEMS & QUANTITIES	JAF
9/24/2025	8005	REVISED BEARING REPLACEMENT NOTES	JAF
10/10/2025	8001	REVISED SHEET NAMES	JAF
10/10/2025	8002	REVISED QUANTITIES, PAY ITEMS, & NOTES	JAF
10/10/2025	8003, 8006, 8007	LEFT SHEET INTENTIONALLY BLANK	JAF
10/10/2025	8004	REVISED NOTES & DETAILS. ADDED NEW DETAIL.	JAF



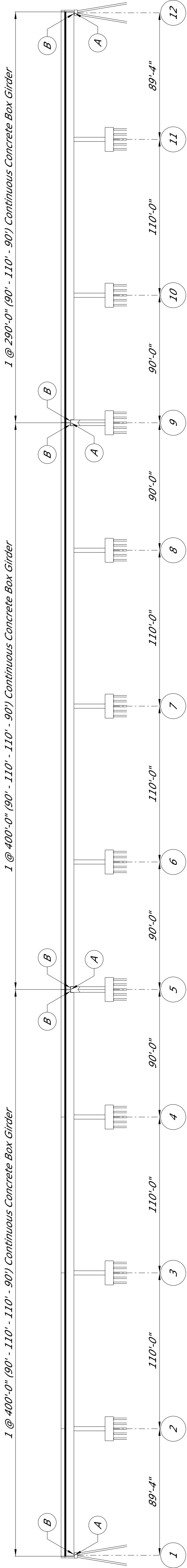
ADDENDUM

DESIGNED BY: JACOB FRIESS
DETAILED BY: JACOB FRIESS
CHECKED BY: ALEX HAWKINS
DATE: 2024-10-23 13:05:53

FMS CON: 109678/301000
PROJECT NO.: NHP-0055-02(283)
COUNTY: MADISON

GENERAL NOTES & ESTIMATED QUANTITIES
DIR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E. DEP. DIR OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - MICAH DEW, P.E.

WK. NO. 1 OF 7
SHEET NO. 8002



ELEVATION WITH PROFILE ALONG C_R BRIDGE

Not to Scale

ESTIMATED QUANTITIES		
PAY ITEM NO.	DESCRIPTION	TOTAL QUANTITIES
907-202-B004	Removal of Bird Debris	1 EACH
907-824-A003	General Epoxy Repairs	18 SF
907-824-C001	Cap Cleaning	4 EACH
907-824-D003	Bearing Replacements, Concrete Box Girder	9 EACH
907-824-D003	Bearing Replacements, Concrete Box Girder, Dapped Ends	16 EACH
907-824-P0003	Bridge Repair, Removal of Bridge Deck	310 SF
907-824-P0004	Bridge Repair, Temporary Shoring	1 LS
907-824-P0007	Bridge Repair, High Early Strength Concrete	8 CY
907-824-P0008	Bridge Repair, Clean Joint Assembly	185 CY
907-828-A001	Hybrid Polymer Concrete Overlay	72 CY

INFORMATION PLANS

Additional as-built information plans are available at the Contractor's request & can be provided by Bridge Division.

TEMPORARY SHORING NOTES:

- Temporary shoring towers may be used to perform the bearing replacements at bents no. 5 & 9. This shoring shall not interfere with the roadway crossing underneath the bridge. Determining the Contractor shall assume all responsibility for determining the shoring system. The shoring system shall be designed and calculated by a Professional Engineer that is registered in the State of Mississippi.
- Prior to beginning construction, the Contractor shall submit plans of the proposed temporary shoring and a set of design calculations to the Director of Structures, State Bridge Engineer for review and comments.
- The Contractor's Engineer shall determine the shoring required to support the span's dead load, traffic loading, and any deflection that occurs in the box girder for the duration of the bearing replacement. Any damage caused by this item of work shall be repaired by the Contractor at no cost to the State.
- Any cost of removal and replacement of slope paving, fill material, etc. associated with installing the temporary shoring system shall be absorbed items of work not paid for directly and included in other items bid.

SCOPE OF WORK:

- Perform full depth repairs to the specified locations of the bridge deck in accordance with the notes and details on sheet no. 3. The full depth removal areas shall be repaired with High Early Strength Concrete. In accordance with the notes on this sheet. The removal of bridge deck shall be paid for under pay item no. 907-824-P0003: Bridge Repair, Removal of Bridge Deck. The replacement of bridge deck shall be paid for under pay item no. 907-824-P0007: Bridge Repair, High Early Strength Concrete.
- Install Hybrid Polymer Concrete Overlay across the entire bridge deck in accordance with the notes on sheet no. 1. This item of work shall be paid for under pay item no. 907-828-A001: Hybrid Polymer Concrete Overlay.
- Repair and locations with epoxy mortar in accordance with the notes, details, and locations specified on this sheet and sheet no. 7. This item of work shall be paid for under pay item no. 907-824-A003: General Epoxy Repairs.
- Remove and replace bearing assemblies in accordance with the notes, details, and locations shown on sheets no. 4. Bearing replacement at the end bents no. 1 & 12 shall be paid for under pay item no. 907-824-D003: Bearing Replacement, Concrete Box Girder. Bearing replacement at bents no. 5 & 9 shall be paid for under pay item no. 907-824-D003: Bearing Replacements, Concrete Box Girder, Dapped Ends.
- Clean caps at open joints in accordance with the notes and details on this sheet. This item of work shall be paid for under pay item no. 907-824-C001: Cap Cleaning.
- Clean all expansion joint assemblies in accordance with the notes on this sheet. This item of work shall be paid for under pay item no. 907-824-P0008: Bridge Repair, Clean Joint Assembly.

JOINT ASSEMBLY CLEANING NOTE:

- The joint assemblies at bents 1, 5, 9, & 12 shall be cleaned to the satisfaction of the Project Engineer after all other work has been completed.
- All debris shall be removed by blowing it with compressed air. Large debris may be removed by hand. This work shall be paid for under pay item no. 907-824-P0008: Bridge Repair, Clean Joint Assembly.

GENERAL NOTES:

Mississippi Standard Specifications for Road and Bridge Construction, 2017. No change of plans will be permitted except by written approval of the Director of Structures, State Bridge Engineer. Minor changes in detail or 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 in the proposal will not be paid for directly and compensation therefore will be included in the prices and payments for bid 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 construction to ensure a proper fit with the existing structure. Any damage that occurs to the existing structure during the duration of the project shall be repaired to the satisfaction of the Engineer by the Contractor at no additional cost to the State.

HYBRID POLYMER CONCRETE OVERLAY NOTES:

- Hybrid Polymer Concrete Overlay shall be placed in accordance with Special Provision Subsection 907-828.03 and with the approved materials outlined in Special Provision Subsection 907-828.02.
- The overlay shall be placed at a minimum thickness of $\frac{1}{2}$ " and maximum thickness of $\frac{3}{4}$ ". The total quantity was calculated using a thickness of $\frac{3}{4}$ ".
- All materials and labor associated with this item of work shall be paid for per cubic yard under pay item no. 907-828-A001: Hybrid Polymer Concrete Overlay.
- Hybrid Polymer Concrete Overlay shall be applied to the entire length and width of bridge deck.
- In preparation for the installation of Hybrid Polymer Concrete Overlay, the bridge deck area adjacent to the bridge expansion joint assembly (at bents 1, 5, 9, & 12) shall be recessed to a depth range of $\frac{1}{2}$ " to $\frac{3}{4}$ " below the surface of the expansion joint assembly. The bridge deck area shall be ground the entire length along the expansion joint assembly a width of 25' on one side of the joint at bents 1 & 12, and both sides of the joint at bents 5 & 9. A lightweight non-impacting drum grinder or similar approved apparatus shall be used to achieve the desired recessed profile. Prior to grinding, the contractor shall field verify the depth of reinforcing steel. All damage to the reinforcing steel resulting from the Contractor's operation shall be repaired or replaced at Contracot's expense as directed by the Engineer.

EPOXY MORTAR REPAIR NOTES:

General Epoxy Repair shall be done in accordance with Special Provision Subsection 907-824.03.1 and with the approved materials outlined in Special Provision Subsection 907-824.02.1. All work and material required to perform this item of work shall be paid for under Pay Item No. 907-824-A003 General Epoxy Repair. For EPOXY REPAIR DETAILS, see sheet no. 7.

It should be noted that hammers used for concrete removal should be limited to 15 lbs. for box girder repairs and 30 lbs. for all other epoxy repairs.

CAP CLEANING NOTE:

Cap cleaning shall be done in accordance with Special Provision Subsection 907-824.03.3. This item of work shall be paid for under Pay Item No. 907-824-C001 Bridge Repair, Cap Cleaning.

DEBRIS NOTE:

During construction care shall be exercised to ensure that no debris fall into the hydraulic crossing below the structure. The debris that is removed from the bridge shall become the property of the Contractor and shall be removed from the construction site.

SPECIAL PROVISIONS REQUIRED:

- 907-808: Joint Repair
- 907-823: Perform Joint Seal
- 907-824: Routine Bridge Repair
- 907-828: Hybrid Polymer Concrete Overlay

HIGH EARLY STRENGTH CONCRETE NOTES:

- The concrete mixture design shall be furnished by the Contractor for approval by the Materials Division. Mixture Design parameters are as follows:
 - Required Strength = 4000 psi prior to releasing to traffic
 - Total Air Content = 3% - 6%
 - Maximum Slump = 6 inches
- Non-chloride based accelerator may be used if the ambient temperature is 50°F or less, but shall not be used if the ambient temperature is greater than 50°F.
- Synthetic structural fibers shall be used. The Contractor shall select a manufacturer from MDOT's Approved Products List and the manufacturer's recommendations shall be followed for the dosage rate.
- Curing is to be continuous until 4000 psi is attained. Traffic is to be diverted from the repair area until this value is reached. The Contractor may use the Maturity Method per Section 907-804 to estimate the concrete compressive strength for the purpose of releasing the repair area to traffic. However, final acceptance of the in-place concrete shall be determined using twelve concrete test cylinders, which shall be cured in a container next to the concrete placement. Three cylinders are to be tested at 24, 48, and 72 hour intervals. The two remaining cylinders shall be used to determine the 28-day compressive strength of the concrete.

CONTRACTOR SUBMITTALS:

Prior to fabrication and construction, the following shall be submitted to the Director of Structures, State Bridge Engineer through the Project Engineer for approval. No work shall begin until all submittals have been authorized by the Director of Structures, State Bridge Engineer.

FIELD VERIFICATION SUBMITTAL:

- All dimensions of the existing structure and clearances shall be field verified by the Contractor. The Contractor shall be responsible for adjusting the elements of the new construction to ensure proper fit with the existing structure. The Contractor shall submit verification of the existing bridge elements checked with the work items described herein. This shall include, but is not limited to:
 - Finish grades at existing bridge
 - Depth to reinforcement in bridge deck at bents 1, 5, 9 & 12.
 - Existing bearing dimensions.
 - Existing cap dimensions.
 - Any other element that will affect the work described herein.

BEARING SHOP DRAWING SUBMITTAL:

The Contractor shall submit shop drawings for new bearing assemblies to be installed at bents 1, 5, 9 & 12. Shop drawings shall not be approved without the corresponding field verification submittal outlined above.

JACKING PLANS SUBMITTAL:

The Contractor shall submit a complete set of bracing and jacking arrangement plans along with design calculations associated with bearing replacements for each bearing replacement location.

SHORING PLAN SUBMITTAL:

The Contractor shall submit a proposed shoring plan and a set of design calculations to the Director of Structures, State Bridge Engineer for review.

CONTAINMENT PLAN SUBMITTAL:

The Contractor shall submit a containment plan associated with the work items described in these plans to the Director of Structures, State Bridge Engineer for approval.



ADDENDUM

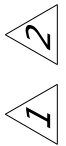
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DETAILED BY: JACOB FRIESS	PROJECT NO.: NHP-0055-02(283)
CHECKED BY: ALEX HAWKINS	COUNTY: MADISON
DATE: 2024-10-23 13:05:53	

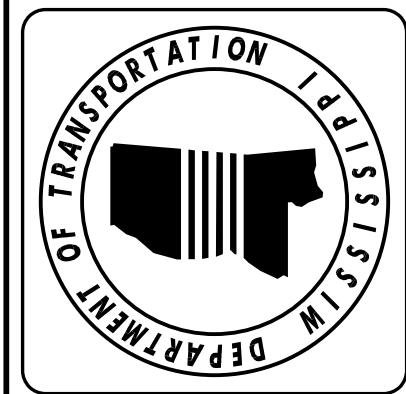
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WK. NO.
2 OF 7

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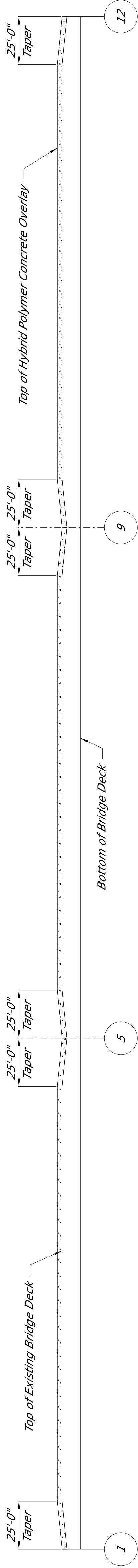
ADDENDUM

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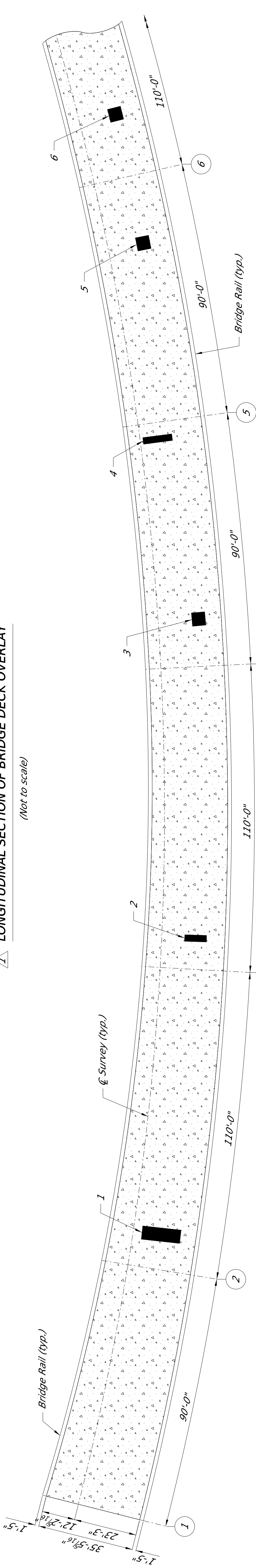
BRIDGE PRESERVATION
PLAN OF DECK REPAIR DETAILS

WK. NO. 3 OF 7
SHEET NO. 8004



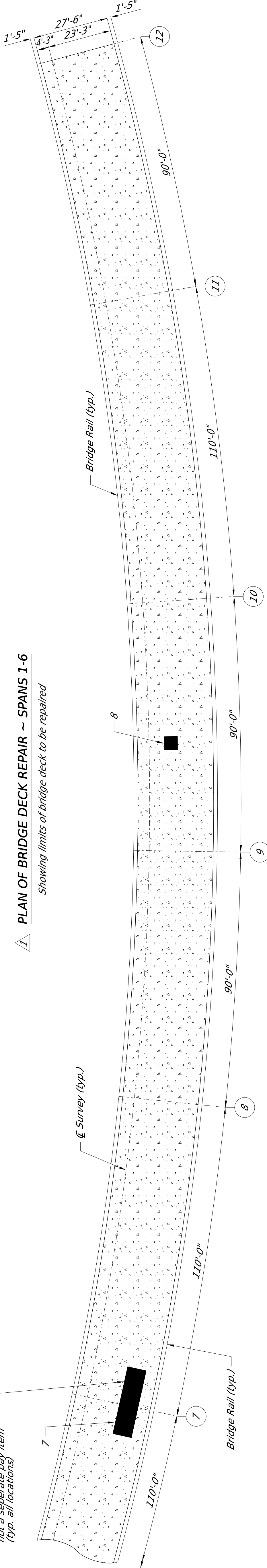
LONGITUDINAL SECTION OF BRIDGE DECK OVERLAY

(Not to scale)



PLAN OF BRIDGE DECK REPAIR ~ SPANS 1-6

Showing limits of bridge deck to be repaired

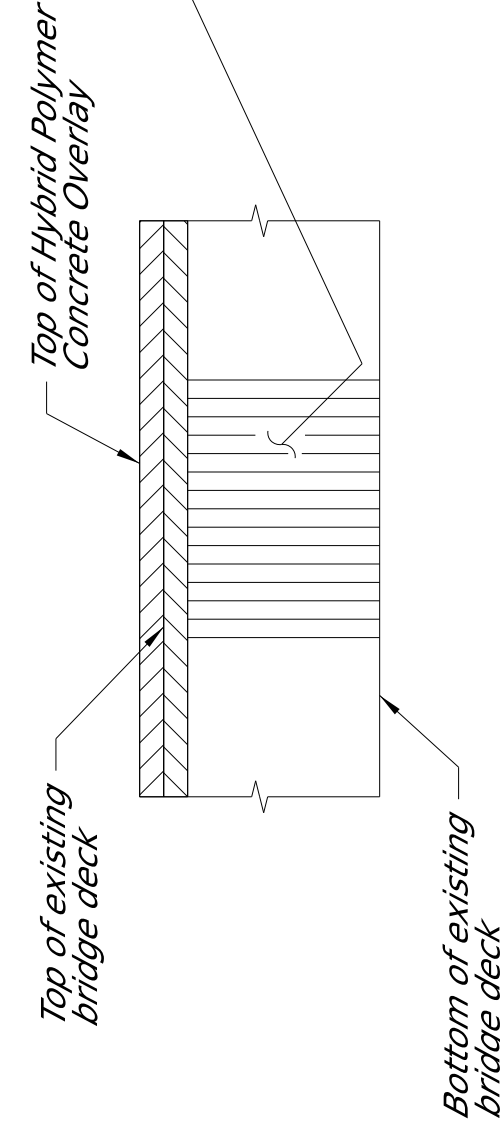


PLAN OF BRIDGE DECK REPAIR ~ SPANS 6-11

Showing limits of bridge deck to be repaired

NOTE:
Locations of full-depth bridge deck repair are only approximate for estimation purposes only. Actual locations shall be verified by the Project Engineer.

NOTE:
New High Early Strength Concrete shall be placed in 1 lift.

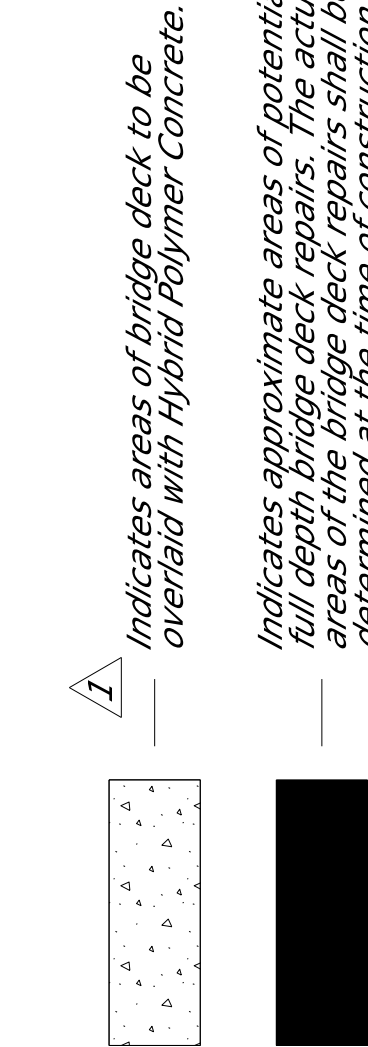


DETAIL OF FULL DEPTH REPAIR

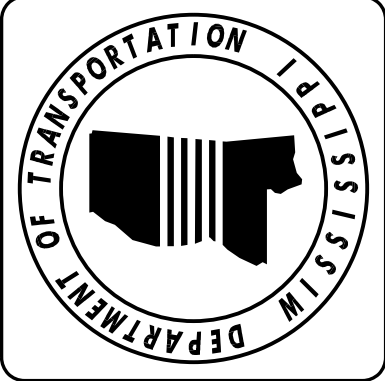
Deck reinforcement not shown for clarity

NOTE:
The deck surface shall be sounded and any additional areas of unsound, delaminated, or otherwise deteriorated concrete shall be removed at the direction of the Engineer by sawcut and 30 lb hammer removal under pay item no. 907-824-PP003: Bridge Repair: Removal of Bridge Deck. All concrete shall be High Early Strength Concrete, paid for under pay item 907-824-PP007: Bridge Repair: High Early Strength Concrete.

NOTE:
**During full or partial depth removal, the Contractor shall ensure that only bridge deck concrete is removed. No damage shall be sustained by the existing beams, diaphragms, or any other part of the structure beyond the depth of the bridge deck. Any damage that occurs to the existing structure or reinforcement as a result of the full depth removal of the bridge deck shall be repaired by the Contractor to the satisfaction of the Engineer at no additional cost to the State.



MARK	DESCRIPTION
1	Asphalt Patch, Spall with Exposed Rebar ~ 15'-0" x 5'-0"
2	Asphalt Patch, Spall with Exposed Rebar ~ 7'-0" x 3'-0"
3	Asphalt Patch, Spall with Exposed Rebar ~ 5'-0" x 5'-0"
4	Asphalt Patch, Spall with Exposed Rebar ~ 8'-0" x 3'-0"
5	Asphalt Patch, Spall with Exposed Rebar ~ 5'-0" x 5'-0"
6	Asphalt Patch, Spall with Exposed Rebar ~ 5'-0" x 5'-0"
7	Asphalt Patch, Spall with Exposed Rebar ~ 20'-0" x 7'-0"
8	Asphalt Patch, Spall with Exposed Rebar ~ 5'-0" x 5'-0"



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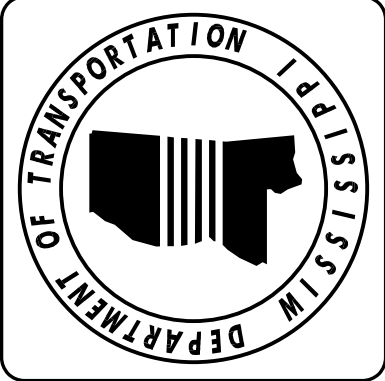
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