

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> 5/17/2023 </u>	ADDENDUM NO. <u> </u>	DATED <u> </u>
ADDENDUM NO. <u> </u>	DATED <u> </u>	ADDENDUM NO. <u> </u>	DATED <u> </u>
ADDENDUM NO. <u> </u>	DATED <u> </u>	ADDENDUM NO. <u> </u>	DATED <u> </u>

Number	Description
1	Revised Table of Contents; Revised NTB Nos. 4869 & 4872; Added NTB No. 4873; Revised Bid Items; Revised or Added Plan Sheet Nos. 8001-8003, 8005, 8024 & 8026; 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.

BR-0042-01(010)/ 100573301000
Kemper County(ies)

Revised 01/26/2016

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION
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PROJECT: BR-0042-01(010)/100573301 - Kemper

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

05/17/2023 09:49 AM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 4869

CODE (SP)

DATE: 05/17/2023

SUBJECT: Placement of Fill Material in Federally Regulated Areas

PROJECT: BR-0042-01(010) / 100573301 – Kemper County

A Permit (404, General, Nationwide, etc.) for placing fill material in federally regulated sites is required on this project.

The Department has acquired the following permits for permanently filling at regulated sites that are identified during project development:

**Nationwide Permit No. 23 (Wetlands and Waters of U.S.) -- All sites.
(ID No. SAM-2023-417)**

Copies of said permit(s) are available at the below referenced link for the appropriate letting date under the column titled “Permit Doc.”

<http://mdot.ms.gov/Applications/BidSystem/Home.aspx>

The permit may have plan sheets attached as reference but these sheets are not to be used for construction. Official plans sheets are those included in the Project Plans.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 4872

CODE: (SP)

DATE: 05/15/2023

SUBJECT: Removal of Obstructions

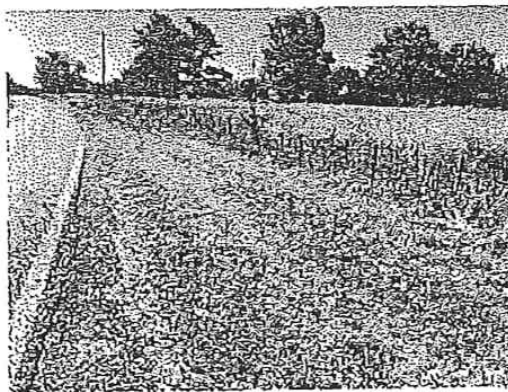
PROJECT: BR-0042-01(010) / 100573301 – Kemper County

Bidders are hereby advised of the following obstructions that will be removed from the right-of-way by the Contractor.

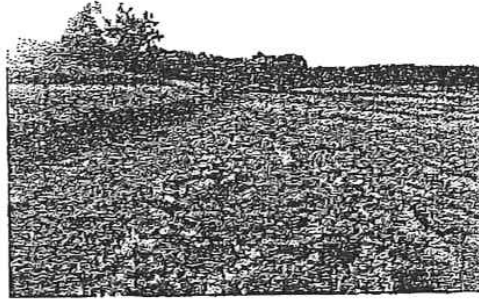
If buildings are listed below, there may be a potential for the buildings to contain materials contaminated with asbestos, a hazardous air pollutant. The bidder's attention is called to the Notices to Bidders entitled "Status of Right-of-Way" for pertinent information concerning asbestos, if any, contained in the buildings listed below to be removed by the Contractor.

The Contractor shall remove the following obstructions in accordance with Section 202, Removal of Structures and Obstructions, and, if necessary, Subsection 107.25, Hazardous and/or Toxic Waste Procedures, of the Mississippi Standard Specifications for Road and Bridge Construction. Payment for removal and disposal of the obstruction(s) listed herein, including demolition, handling, loading, transporting, and disposal of any asbestos containing materials, shall be made under the Pay Item Number **202-B126 Removal of Fence, All Types**.

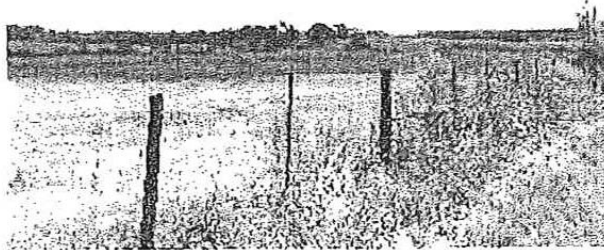
1. 2,100 linear feet of wire fencing located approximately 28 feet left of Station 234+00. The improvement has been inspected and no ACM'S were identified.



2. 1,850 linear feet of wire fencing located approximately 29 feet right of Station 233+50. The improvement has been inspected and no ACM'S were identified.



3. 1,190 linear feet of wire fencing located approximately 31 feet right of Station 255+00. The improvement has been inspected and no ACM'S were identified.



Bidders are also advised that the Plans show the quantity for the Pay Item Number 202-B126, Removal of Fence, All Types to be 5,285 Linear Feet. This is in error. The correct quantity for Removal of Fence, All Types is **5,140 Linear Feet**. Revised Bid Items are correct.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 4873

CODE: (SP)

DATE: 5/12/2023

SUBJECT: Project Number Change

PROJECT: BR-0042-01(010) / 100573301 – Kemper County

Bidders are hereby advised that any references to Project Number SP-0042-01(006) / 100573301 in the plans or specifications shall be understood to mean Project Number BR-0042-01(010) / 100573301.

Bridge Replacements on SR 397 between SR 16 and the Winston County Line (Bridge Nos. 13.4 & 13.9), known as Federal Aid Project No. BR-0042-01(010) / 100573301 in Kemper County.

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
Roadway Items					
0010	201-B001		1	Acre	Clearing and Grubbing
0020	201-C002		1	Acre	Random Clearing and Grubbing
0040	202-B007		10,665	Square Yard	Removal of Asphalt Pavement, All Depths
0050	202-B023		2	Each	Removal of Bridge
0060	202-B126		5,140	Linear Feet	Removal of Fence, All Types
0070	202-B136		728	Linear Feet	Removal of Guard Rail
0080	202-B191		90	Linear Feet	Removal of Pipe, 8" And Above
0090	202-B215		10	Each	Removal of Sign Including Post & Footing
0100	202-B240		1,000	Linear Feet	Removal of Traffic Stripe
0110	203-A001	(E)	7,761	Cubic Yard	Unclassified Excavation, FM, AH
0120	203-EX010	(E)	30,562	Cubic Yard	Borrow Excavation, AH, FME, Class B17
0124	203-G001	(E)	2,479	Cubic Yard	Excess Excavation, FM, AH
0130	206-A001	(S)	28	Cubic Yard	Structure Excavation
0140	206-B001	(E)	100	Cubic Yard	Select Material for Undercuts, Contractor Furnished, FM
0150	209-A005		28,260	Square Yard	Geotextile Stabilization, Type V, Non-Woven
0160	211-B001	(E)	2,000	Cubic Yard	Topsoil for Slope Treatment, Contractor Furnished
0170	213-C001		6	Ton	Superphosphate
0180	216-A001		145	Square Yard	Solid Sodding
0190	217-A001		3,509	Square Yard	Ditch Liner
0200	219-A001		3	Thousand Gallon	Watering [\$20.00]
0210	220-A001		12	Acre	Insect Pest Control [\$30.00]
0220	221-A001	(S)	12	Cubic Yard	Concrete Paved Ditch
0230	223-A001		23	Acre	Mowing [\$50.00]
0240	225-A001		12	Acre	Grassing
0250	225-B001		6	Ton	Agricultural Limestone
0260	225-C001		23	Ton	Mulch, Vegetative Mulch
0270	226-A001		12	Acre	Temporary Grassing
0280	236-A008		5	Each	Silt Basin, Type D
0290	237-A002		1,203	Linear Feet	Wattles, 20"
0300	239-A001		1,000	Linear Feet	Temporary Slope Drains
0310	245-A001		608	Linear Feet	Silt Dike
0320	249-A001		2,617	Ton	Riprap for Erosion Control

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0330	249-B001		200	Cubic Yard	Remove and Reset Riprap
0340	403-A003	(BA1)	2,291	Ton	12.5-mm, ST, Asphalt Pavement
0350	403-A006	(BA1)	1,808	Ton	19-mm, ST, Asphalt Pavement
0360	403-A015	(BA1)	1,827	Ton	9.5-mm, ST, Asphalt Pavement
0370	403-C003	(BA1)	293	Ton	19-mm, ST, Asphalt Pavement, Trench Widening
0380	406-D001		448	Square Yard	Fine Milling of Bituminous Pavement, All Depths
0390	407-A001	(A2)	3,664	Gallon	Asphalt for Tack Coat
0400	413-E001		147	Linear Feet	Sawing and Sealing Transverse Joints in Asphalt Pavement
0410	423-A001		2	Mile	Rumble Strips, Ground In
0420	501-E001		147	Linear Feet	Expansion Joints, Without Dowels
0430	501-K001		49	Square Yard	Transverse Grooving
0440	502-A001	(C)	332	Square Yard	Reinforced Cement Concrete Bridge End Pavement
0450	601-B001	(S)	1	Cubic Yard	Class "B" Structural Concrete, Minor Structures
0460	603-ALT006	(S)	200	Linear Feet	24" Type A Alternate Pipe
0470	603-ALT009	(S)	96	Linear Feet	30" Type A Alternate Pipe
0480	603-ALT014	(S)	48	Linear Feet	42" Type A Alternate Pipe
0490	603-CA026	(S)	48	Linear Feet	24" Reinforced Concrete Pipe, Class III
0500	603-CB004	(S)	2	Each	24" Reinforced Concrete End Section
0510	603-CE039	(S)	56	Linear Feet	73" x 45" Concrete Arch Pipe, Class A III
0520	603-CF009	(S)	2	Each	73" x 45" Concrete Arch Pipe End Section
0530	605-AA001	(S)	94	Square Yard	Geotextile for Subsurface Drainage, Type III
0540	605-O002	(S)	163	Linear Feet	4" Perforated Sewer Pipe for Underdrains, SDR 23.5
0550	605-P003	(S)	120	Linear Feet	4" Non-perforated Sewer Pipe for Underdrains, SDR 35
0560	605-W001	(GY)	6	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type A, FM
0570	606-B001		600	Linear Feet	Guard Rail, Class A, Type 1
0580	606-D022		8	Each	Guard Rail, Bridge End Section, Type I
0590	606-E001		8	Each	Guard Rail, Terminal End Section
0600	614-A001	(S)	107	Square Yard	Concrete Driveway, Without Reinforcement
0610	615-A024	(S)	80	Linear Feet	Concrete Bridge End Barrier, 37.5"
0620	617-A001		57	Each	Right-of-Way Marker
0630	618-A001		1	Lump Sum	Maintenance of Traffic
0640	619-A1002		24,606	Linear Feet	Temporary Traffic Stripe, Continuous White
0650	619-A2002		17,470	Linear Feet	Temporary Traffic Stripe, Continuous Yellow
0660	619-A4001		4,560	Linear Feet	Temporary Traffic Stripe, Skip Yellow

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0670	619-A5001		320	Linear Feet	Temporary Traffic Stripe, Detail
0680	619-A6002		208	Linear Feet	Temporary Traffic Stripe, Legend
0690	619-C7001		138	Each	Two-Way Yellow Reflective High Performance Raised Marker
0700	619-D1001		1,008	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
0710	619-D2001		359	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
0720	619-D3001		7	Each	Remove and Reset Signs, All Sizes
0730	619-G4001		18	Linear Feet	Barricades, Type III, Double Faced
0740	619-G4005		164	Linear Feet	Barricades, Type III, Single Faced
0750	619-G5001		12	Each	Free Standing Plastic Drums
0760	619-G7001		49	Each	Warning Lights, Type "B"
0770	620-A001		1	Lump Sum	Mobilization
0780	626-C001		12,303	Linear Feet	6" Thermoplastic Double Drop Edge Stripe, Continuous White
0790	626-D002		2,280	Linear Feet	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow
0800	626-E002		8,735	Linear Feet	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
0810	626-G004		160	Linear Feet	Thermoplastic Double Drop Detail Stripe, White
0820	626-H002		104	Linear Feet	Thermoplastic Double Drop Legend, White
0830	627-J001		34	Each	Two-Way Clear Reflective High Performance Raised Markers
0840	627-L001		156	Each	Two-Way Yellow Reflective High Performance Raised Markers
0850	630-A003		109	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness
0860	630-A005		8	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.1" Thickness
0870	630-C005		84	Linear Feet	Square Tube Posts, 2.0 lb/ft
0880	630-F006		32	Each	Delineators, Guard Rail, White
0890	630-G005		8	Each	Type 3 Object Markers, OM-3R or OM-3L, Post Mounted
0900	699-A001		1	Lump Sum	Roadway Construction Stakes
0910	815-A007	(S)	1,876	Ton	Loose Riprap, Size 300
0920	815-E001	(S)	3,241	Square Yard	Geotextile under Riprap
0930	815-F002	(S)	300	Ton	Sediment Control Stone
0940	907-234-A001		10,000	Linear Feet	Temporary Silt Fence
0950	907-234-C001		504	Linear Feet	Super Silt Fence
0960	907-234-F001		250	Linear Feet	Turbidity Barrier
0970	907-253-A001		816	Linear Feet	Coir Fiber Baffle
0980	907-619-E3001		3	Each	Changeable Message Sign
0990	907-906001		720	Hours	Trainees [\$5.00]

ALTERNATE GROUP AA NUMBER 1

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1000	304-F001	(GT)	11,688	Ton	3/4" and Down Crushed Stone Base
ALTERNATE GROUP AA NUMBER 2					
1010	304-F002	(GT)	11,688	Ton	Size 610 Crushed Stone Base
ALTERNATE GROUP AA NUMBER 3					
1020	304-F003	(GT)	11,688	Ton	Size 825B Crushed Stone Base
ALTERNATE GROUP BB NUMBER 1					
1030	605-W002	(GY)	127	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type B, FM
ALTERNATE GROUP BB NUMBER 2					
1040	605-W003	(GY)	127	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type C, FM
Bridge Items					
1050	501-K001		1,776	Square Yard	Transverse Grooving
1060	803-D006	(S)	5,345	Linear Feet	HP 14 x 73 Steel Piling
1070	804-C188	(S)	1,193	Linear Feet	80' Prestressed Concrete Beam, Type FIB-36
1080	804-C209	(S)	573	Linear Feet	115' Prestressed Concrete Beam, Type FIB-45
1090	804-C210	(S)	395	Linear Feet	40' Prestressed Concrete Beam, Type MFIB-25
1100	804-C216	(S)	417	Linear Feet	60' Prestressed Concrete Beam, Type MFIB-25
1110	805-A001	(S)	175,457	Pounds	Reinforcement
1120	805-C001	(S)	6,742	Pounds	Reinforcement, Corrosion Resistant
1130	813-A004	(S)	999	Linear Feet	Concrete Railing, 36"
1140	815-A007	(S)	2,478	Ton	Loose Riprap, Size 300
1150	815-E001	(S)	2,282	Square Yard	Geotextile under Riprap
1160	907-803-B001	(S)	2	Each	Conventional Static Pile Load Test [\$5,000.00]
1170	907-803-I003	(S)	5	Each	PDA Test Pile, HP Steel Pile
1180	907-803-J001	(S)	5	Each	Pile Restrike
1190	907-804-A001	(S)	538	Cubic Yard	Bridge Concrete, Class BDX
1200	907-804-A002	(S)	240	Cubic Yard	Bridge Concrete, Class AA
1210	907-823-A001		149	Linear Feet	Preformed Joint Seal, Type I

ADDENDUM

STATE	PROJECT NO.
MISS.	BR-0042-01(010)

WORKING NUMBER SHEET NUMBER

WORKING NUMBER SHEET NUMBER

DESCRIPTION OF SHEETS

DESCRIPTION OF SHEETS

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115 FT. BEAM NO. 115-1 DETAILS (TYPE FIB-45)
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BEARING PAD DETAILS
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60 FT. BEAM NO. 60-1 DETAILS (TYPE MOD. FIB-25)
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GENERALIZED SOIL PROFILE SR 397 ACROSS UNNAMED CREEK
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BRIDGE A EROSION CONTROL ELEVATION
BRIDGE A EROSION CONTROL PLAN
BRIDGE B EROSION CONTROL ELEVATION
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INFORMATION PLANS: BRIDGE B

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BRIDGE DIVISION		
REVISIONS		
DATE	SHEET NO.	BY
5/10/2023	8001, 8002, 8003, 8005, 8024, 8026	JMF

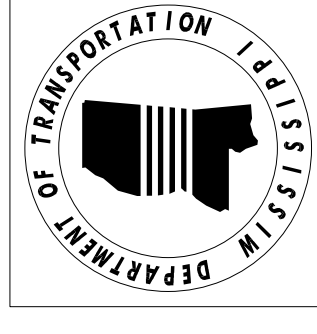
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX (BRIDGE)

FMS: 100573 / 301000
COUNTY: KEMPER
PROJECT NUMBER: BR-0042-01(010)

DATE	REVISION	BY
5/10/23	Project Number	JMF

DESIGNER: Josh. Foster
CHECKER: Shane Wehler
ISSUE DATE: 2023-03-28
PROJECT NUMBER: BR-0042-01(010)
DRAWN BY: JMF
PROJECT NUMBER: BR-0042-01(010)
SHEET NUMBER: 8001
WORKING NUMBER: 01-BR-1

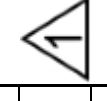


ADDENDUM

STATE	PROJECT NO.
MISS.	BR-0042-01(010)

SUMMARY OF QUANTITIES

PAY ITEM NO.	PAY ITEM	QUANTITIES	
		UNIT	PRELIMINARY
	Bridge Summary		FINAL
501-K001	Transverse Grooving	SY	1,776
907-803-B001	Conventional Static Pile Load Test	EA	2
803-D006	HP 14 x 73 Steel Piling	LF	5,345
907-803-I003	PDA Test Pile, HP Steel Pile	EA	5
907-803-I001	Pile Restrike	EA	5
907-804-A001	Bridge Concrete, Class BDX	CY	538
907-804-A002	Bridge Concrete, Class AA	CY	240
804-C188	80' Prestressed Concrete Beam, Type FIB-36	LF	1,193
804-C209	115' Prestressed Concrete Beam, Type FIB-45	LF	573
804-C210	40' Prestressed Concrete Beam, Type MFIB-25	LF	395
804-C216	60' Prestressed Concrete Beam, Type MFIB-25	LF	417
805-A001	Reinforcement	LBS	175,457
805-C001	Reinforcement, Corrosion Resistant	LBS	6,742
813-A004	Concrete Railing, 36"	LF	999
815-A007	Loose Riprap, Size 300	TON	2,478
815-E001	Geotextile under Riprap	SY	2,282
907-823-A001	Preformed Joint Seal, Type I	LF	149



By	Revision	MISSISSIPPI DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES (BRIDGE ITEMS) PROJECT BR-0042-01(010) 100573-301000	WORKING NUMBER
B1	Revised Test Piles		KEMPER COUNTY
Date	05/11/2023	DESIGNER Barbara Jones, PE DETAILER CHECKER ISSUE DATE 2022-04-29	SHEET NUMBER
		DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E. DEF. DIR OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - MICAH DEW, P.E.	8002

ADDENDUM

GENERAL NOTES:

Specifications: 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 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.

The final surface texture of the bridge deck shall be smooth finish (SFC) as specified in the specifications.

Span Details for limits of 14 ft. or less shall be indicated in plans. Reinforcing steel shall be brimous fiber type unless otherwise noted.

No payment will be allowed for excavation incidental to the construction of and for.

Bar bending details shall be in accordance with "Manual of Standard Practices for Detailing Reinforced Concrete Structures" (ACI 315P-04).

Reinforcement order lists and required placing plans shall be furnished in accordance with Section 805 of the Mississippi Standard Specifications. Partial submittals are not acceptable.

Shop drawings of prestressed beams, including an erection plan, shall be submitted in duplicate to the Director of Structures, State Bridge Engineer for approval prior to the manufacture of beams.

The fabricator shall provide camber data at release and immediately prior to shipping.

The Contractor shall provide camber data after erection. The Contractor should be aware that the deflection diagram may be modified based on the provided camber data. Therefore deck grades should be set only after notification from the Director of Structures, State Bridge Engineer.

Concrete surfaces shall receive a Class 2 rubbed or spray finish in accordance with the specifications.

Reinforcing steel shall be ASTM A615, Grade 60, unless otherwise noted.

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.

NOTE:

The girder deflection diagrams shown in these plans were prepared and intended for design and estimation purposes only. Actual bridge girder deflections may differ from the deflection diagrams shown in these plans.

It is the Contractor's responsibility to construct the bridge to meet the requirements of the plans and specifications including, but not limited to, the requirements for bridge deck smoothness.

Prior to formwork construction, the Contractor shall submit three (3) copies of a Proposed BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN to the Director of Structures, State Bridge Engineer for review, through the Project Engineer. This submittal shall include all calculations, assumptions and parameters used by the Contractor to determine bridge girder deflections and form grade elevations. This submittal shall also include an erection and construction procedure that addresses the construction means and methodologies used by the Contractor and shall consider effects including, but not limited to, construction phasing, pouring schedules, applied permanent and construction loading, and shall include calculations and details of temporary girder bracing systems used to ensure girder stability and to counter the effects of girder tilt.

After girder erection and prior to deck construction, the Contractor shall submit deck thickness verification calculations for each girder. These calculations shall include a comparison of the erected girder top flange profiles versus the plan deck grade elevations over each girder plus the anticipated girder deflection due to applied permanent dead load and creep.

Three (3) copies of the deck thickness verification calculations and any proposed remediation measures to correct for thin deck areas shall be submitted to the Director of Structures, State Bridge Engineer for review, through the Project Engineer.

The BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN and the deck thickness verification calculations shall be prepared and stamped by a Mississippi Registered Professional Engineer.

REQUIRED ULTIMATE PILE BEARING CAPACITY AND TIP ELEVATION SCHEDULE

Bent No.	Pile Type	Req'd Ult. Bearing (Tons)	Estimated Length (ft.)	Pile Size	Min. Tip Elevation	LRFD Resistance Factor	Controlling Limit State
1	Steel HP	91	40	HP 14x73	419.5	0.65	Strength I
2	Steel HP	127	50	HP 14x73	416.5	0.65	Strength I
3	Steel HP	179	75	HP 14x73	403.4	0.65	Strength I
4	Steel HP	169	75	HP 14x73	403.4	0.65	Strength I
5	Steel HP	93	40	HP 14x73	420.5	0.65	Strength I

ESTIMATED QUANTITIES

Item	Transverse Grooving	S.Y.	Each	Class AA Bridge Concrete	Class BBY Bridge Concrete	80 Ft. Pres. Conc. Beam FIB-36	115 Ft. Pres. Conc. Beam FIB-45	Reinforcement	Reinforcement Resistant	Concrete Railing	Loose Riprap (300%)	Geotextile Under Riprap	Performed Joint Seal Type I
Location	1270.03	1	1	64.37	389.43	1192.50	572.50	LB	LB	L.F.	Ton	S.Y.	L.F.
Spans	1270.03	1	1	64.37	389.43	1192.50	572.50	4002	4002	714.39	1370	1260	76
End Bents		1	2	75.62				6822					
Int. Bents		1	2	75.62									
Total	1270.03	1	3	3080	389.43	1192.50	572.50	117507	4002	714.39	1370	1260	76

PILE NOTES:

Test piles shall be driven with an approved impact hammer as a location pile at the location shown in the PDA TEST PILE SCHEDULE and will be paid for as test piles only.

The first PDA test pile driven shall be an indicator PDA test pile as shown on the Foundation Plan. The indicator PDA test pile shall be driven continuously using an approved impact hammer, until the PDA indicator test pile is complete.

The PDA monitored indicator test pile will be out-of-position pile driven with mandatory restrikes and PDA results analyzed prior to driving any PDA test piles. Based on the results of the PDA indicator test pile, the plan lengths of the PDA test piles may change. The PDA indicator test pile is complete.

The Director of Structures, State Bridge Engineer may authorize test piles to be driven outside the structural boundaries to the ultimate pile bearing and tip elevations otherwise directed by the Director of Structures, State Bridge Engineer.

Permanent piles shall be driven, elevation no higher than the elevation shown in the REQUIRED ULTIMATE PILE BEARING CAPACITY AND TIP ELEVATION SCHEDULE.

The tip elevation of piles for hydraulic structures, may be determined by the sur line.

When feasible bearing piles shall be driven full length and be spaced only as approved by the Director of Structures, State Bridge Engineer.

HP piles are not acceptable for test piles. Welding shall be done by the ELECTRIC ARC process. Welders shall be certified and electrodes shall be approved.

When loading tests are required, the maximum test load shall be one and one half (1 1/2) times the minimum pile bearing capacity.

PDA test piles shall require a 1 day restrike unless otherwise directed by the Engineer.

Pile lengths and driving criteria shall be provided based on the results of the PDA test piles.

The required ultimate pile bearing shown in the REQUIRED ULTIMATE PILE BEARING AND TIP ELEVATION SCHEDULE includes the LRFD resistance factor for PDA of 0.65.

Pile hammer leads used for all PDA test piles and PDA restrikes shall be large enough to provide a minimum of 3" of clearance on each side of the pile in order to properly place and protect PDA cages.

Steel HP piles shall be driven with a maximum rated energy no less than 58,000 ft-lbs to the anticipated tip elevations specified unless the Contractor's Drivability Analysis utilizing the Contractor's selected alternative hammer is approved by the Director of Structures, State Bridge Engineer.

NOTE:

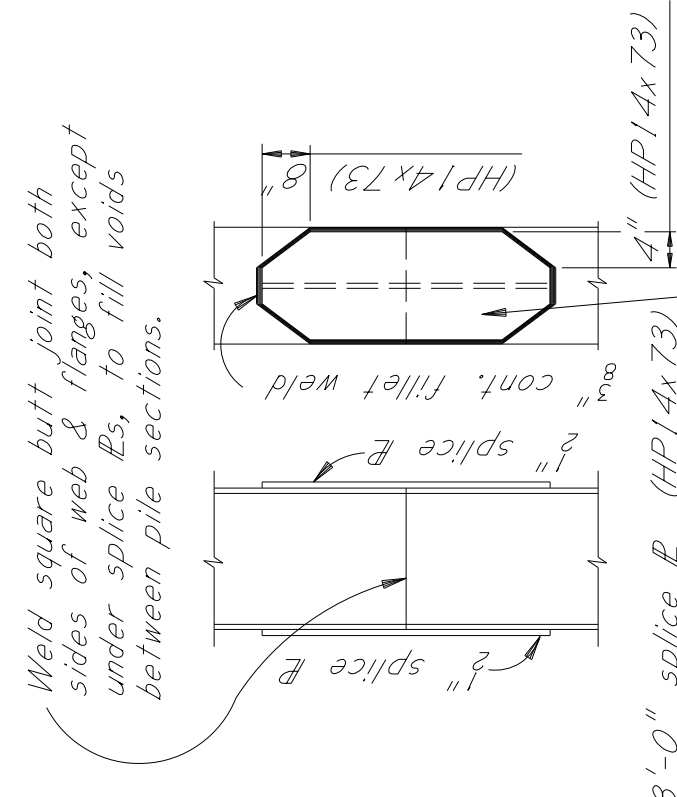
Indicator test piles shall be 25'-0" from proposed centerline at Bents No. 2 & 4. See sheet no. A3 for location of test piles.

NOTE:

Anywhere SP-0042-01(006) is shown as the project number, it shall be understood as BR-0042-01(010).

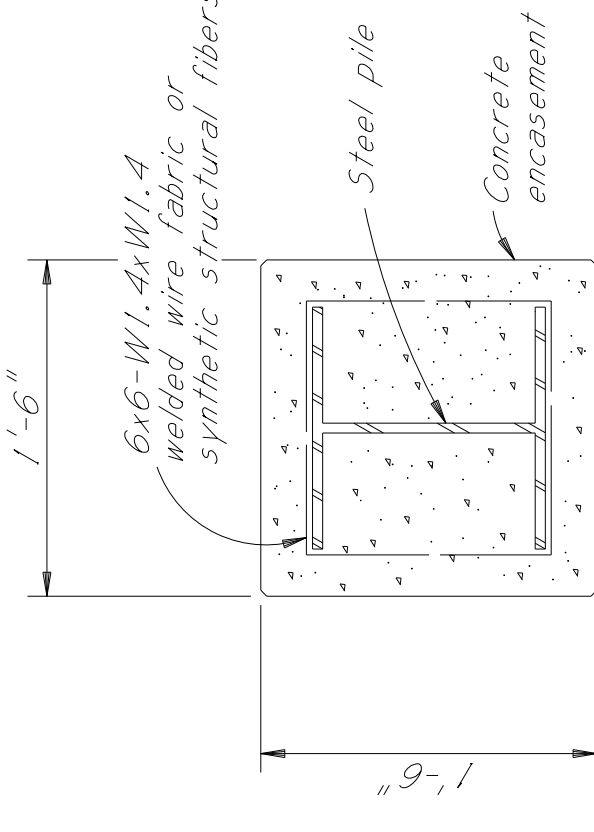
NOTE: In lieu of splice plates, prefabricated splicers may be used. Prefabricated splicers shall be submitted for approval by the Director of Structures, State Bridge Engineer.

Bent No.	Min. Lgth.-Ft.	Tip Elevation
1	50	397.1
⊕	60	387.1
⊕	85	362.0



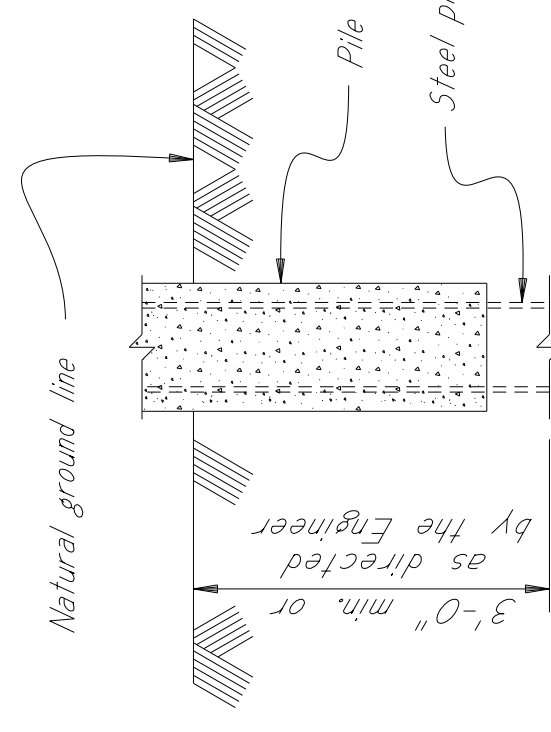
PILE SPLICE DETAIL
HP14x73 steel piles

Weld square butt joint both sides of web & flanges, except under splice E_s, to fill voids between pile sections.



PILE ENCASEMENT DETAIL
HP14x73 steel piles

NOTE: Concrete for pile encasement shall be class "AA" and will be paid for as bridge concrete. Class AA concrete with #6 aggregate may be used for pile encasement. Pile encasement shall be reinforced with 6x6-W1.4xW1.4 welded wire fabric weighing 0.21 lbs. per sq. ft. (not a separate pay item) or synthetic structural fiber applied at a dosage rate of 4 lbs. per cubic yd. Synthetic structural fiber shall meet requirements of Special Provision no. 907-711 (not a separate pay item). Chamfer corners of encasement.

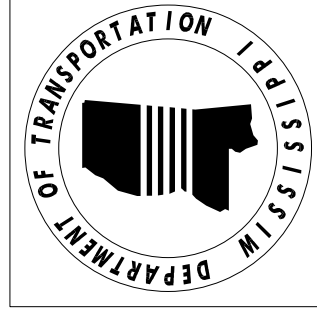


PILE ENCASEMENT DETAIL

DATE	REVISION	BY
5/10/23	Indicator Test Pile Notes & Quantities	JWF

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE AT STA. 222+83.88
GENERAL NOTES & ESTIMATED QUANTITIES

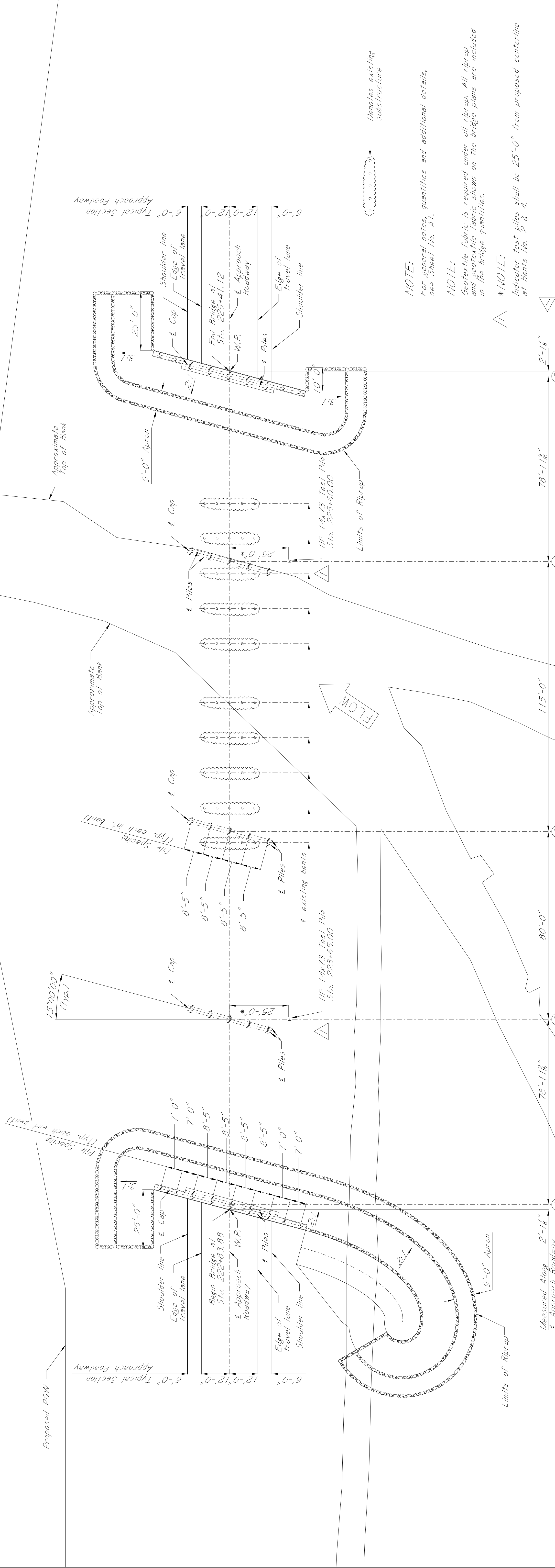
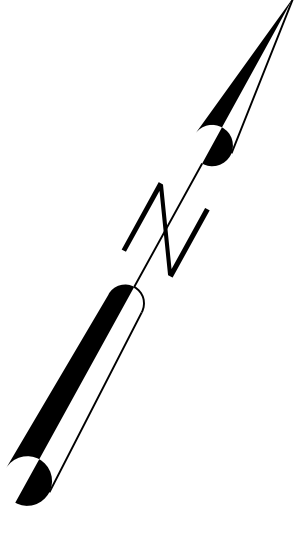
FMS: 100573 / 301000
COUNTY: KEMPER
PROJECT NUMBER: BR-0042-01(010)



DESIGNER	CHECKER	ISSUE DATE	WORKING NUMBER
Jacob E. Foster	State	2023-03-28	A1 OF A21
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER	STATE BRIDGE ENGINEER		8003

ADDENDUM

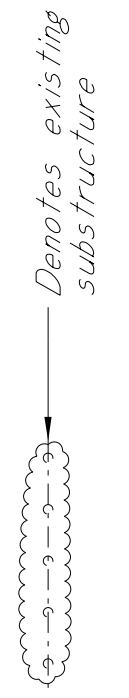
STATE PROJECT NO.
MISS. BR-0042-01(010)



NOTE:
For general notes, quantities and additional details, see Sheet No. A1.

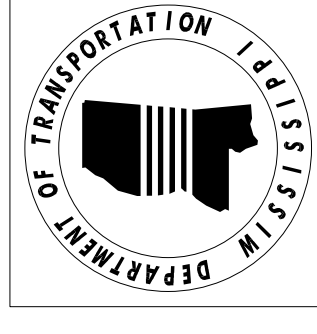
NOTE:
Geotextile fabric is required under all riprap. All riprap and geotextile fabric shown on the bridge plans are included in the bridge quantities.

***NOTE:**
Indicator test piles shall be 25'-0" from proposed centerline at Bents No. 2 & 4.



DATE	BY	REVISION
5/10/23	JWF	Out-of-Place Test Piles, Project Number

DESIGNER: John E. Foster
 CHECKER: Shana Wehler
 ISSUE DATE: 2023-03-28
 PROJECT NO.: BR-0042-01(010)
 PROJECT NUMBER: BR-0042-01(010)
 COUNTY: KEMPER
 FMS: 100573 / 301000
 BRIDGE ENGINEER: MICHAEL P. E.



MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 BRIDGE AT STA. 222+83.88
 SR 397 ACROSS NANAWAYA CREEK TRIBUTARY FOUNDATION PLAN

WORKING NUMBER
A3 OF A21
 SHEET NUMBER
 8005

FOUNDATION PLAN
 Scale: 1" = 20'-0"

NOTE:
 50' Right Spur Dike Required on Upstream Side of Abutment Per Details on Sheet No. ED-1 of MDOT Roadway Design Standard Drawings.

ADDENDUM

GENERAL NOTES:

Specifications: 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 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.

The final surface texture of the bridge deck shall be Section 501 and 804 approved in accordance with Span Details for limits of 1/4" gypcrete grooving on bridge deck. Bridge concrete shall be Class 60 or Class 60/40 as indicated in plans. Rebar expansion joint material shall be bituminous fiber type unless otherwise noted.

No payment will be allowed for excavation incidental to the construction of and on beams, including an erection plan shall be submitted in duplicate to the Director of Structures. The fabricator shall provide camber data at release and immediately after notification from the Director of Structures, State Bridge Engineer.

Finish in accordance with the specifications. Reinforcing steel shall be ASTM A615, Grade 60, unless otherwise noted.

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.

NOTE:
 The girder deflection diagrams shown in these plans were prepared and intended for design and estimation purposes only. Actual bridge girder deflections may differ from the deflection diagrams shown in these plans. It is the Contractor's responsibility to construct the bridge to meet the requirements of the plans and specifications including, but not limited to, the requirements for bridge deck smoothness.

Prior to formwork construction, the Contractor shall submit three (3) copies of a Proposed BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN to the Director of Structures, State Bridge Engineer for review, through the Project Engineer. This submittal shall include all calculations, assumptions and parameters used by the Contractor to determine bridge girder deflections and form grade elevations. This submittal shall also include an erection and construction procedure that addresses the construction means and methodologies used by the Contractor and shall consider effects including, but not limited to, construction phasing, pouring schedules, applied permanent and construction loading, and shall include calculations and details of temporary girder bracing systems used to ensure girder stability and to counter the effects of girder tilt.

After girder erection and prior to deck construction, the Contractor shall submit deck thickness verification calculations for each girder. These calculations shall include a comparison of the erected girder top flange profiles versus the plan deck grade elevations over each girder plus the anticipated girder deflection due to applied permanent dead load and creep.

Three (3) copies of the deck thickness verification calculations and any proposed remediation measures to correct for thin deck areas shall be submitted to the Director of Structures, State Bridge Engineer for review, through the Project Engineer. The BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN and the deck thickness verification calculations shall be prepared and stamped by a Mississippi Registered Professional Engineer.

NOTE:
 The girder deflection diagrams shown in these plans were prepared and intended for design and estimation purposes only. Actual bridge girder deflections may differ from the deflection diagrams shown in these plans. It is the Contractor's responsibility to construct the bridge to meet the requirements of the plans and specifications including, but not limited to, the requirements for bridge deck smoothness.

Prior to formwork construction, the Contractor shall submit three (3) copies of a Proposed BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN to the Director of Structures, State Bridge Engineer for review, through the Project Engineer. This submittal shall include all calculations, assumptions and parameters used by the Contractor to determine bridge girder deflections and form grade elevations. This submittal shall also include an erection and construction procedure that addresses the construction means and methodologies used by the Contractor and shall consider effects including, but not limited to, construction phasing, pouring schedules, applied permanent and construction loading, and shall include calculations and details of temporary girder bracing systems used to ensure girder stability and to counter the effects of girder tilt.

After girder erection and prior to deck construction, the Contractor shall submit deck thickness verification calculations for each girder. These calculations shall include a comparison of the erected girder top flange profiles versus the plan deck grade elevations over each girder plus the anticipated girder deflection due to applied permanent dead load and creep.

Three (3) copies of the deck thickness verification calculations and any proposed remediation measures to correct for thin deck areas shall be submitted to the Director of Structures, State Bridge Engineer for review, through the Project Engineer. The BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN and the deck thickness verification calculations shall be prepared and stamped by a Mississippi Registered Professional Engineer.

NOTE:
 In lieu of splice plates, prefabricated splicers may be used. Prefabricated splicers shall be submitted for approval by the Director of Structures, State Bridge Engineer.

Anywhere SP-0042-01(006) is shown as the project number, it shall be understood as BR-0042-01(010).

REQUIRED ULTIMATE PILE BEARING CAPACITY AND TIP ELEVATION SCHEDULE

Bent No.	Pile type	Req'd Ult. Bearing (Tons)	Pile Size	Estimated Length (ft.)	Min Tip Elevation	LRFD Resistance Factor	Controlling Limit State
1	Steel HP	67	HP 14x73	35	420.0	0.65	Strength I
2	Steel HP	77	HP 14x73	55	390.1	0.65	Strength I
3	Steel HP	77	HP 14x73	55	390.1	0.65	Strength I
4	Steel HP	67	HP 14x73	35	418.4	0.65	Strength I

ESTIMATED QUANTITIES

Item	Transverse Grooving	S.Y.	Each	Class AA Bridge Concrete	60 Ft. Prest. Conc. Beam MF-1B-25	40 Ft. Prest. Conc. Beam MF-1B-25	Reinforcement, Corrosion Resistant	Concrete Railing	Loose Riprap (300%)	Geotextile Under Riprap	Preformed Joint Seal Type 1
Spans	505.48		1	148.94	416.50	395.00	2740	284.33	1108	1022	73
End Bents			1	55.19	416.50	395.00	8323				
Int. Bents			2	45.23	416.50	395.00	4256				
Total	505.48		3	148.94	100.42	2740	57950	284.33	1108	1022	73

PILE NOTES:

Test piles shall be driven with an approved impact hammer as a production pile at the location shown in the PDA TEST PILE SCHEDULE and will be paid for as test piles only. The first PDA test pile driven shall be an indicator PDA test pile as shown on the Foundation Plan. The indicator PDA test pile shall be driven continuously using an approved impact hammer, with the PDA indicator operating until the PDA test pile shall be monitored until PDA.

The PDA monitored indicator test pile will be out-of-position pile driven with mandatory restrikes and PDA results analyzed prior to driving any PDA test piles. Based on the results of the PDA indicator test pile, the plan lengths of the PDA test piles may change. The PDA indicator operating until the PDA test piles after analysis of the PDA indicator operating is complete.

The Director of Structures, State Bridge Engineer, may authorize test piles driven outside the structural boundaries to the piles shall be driven with continuous operation, to the PDA TEST PILE SCHEDULE unless otherwise directed by the Director of Structures, State Bridge Engineer, elevation no higher than Permanent piles shall be in the REQUIRED ULTIMATE PILE BEARING CAPACITY AND TIP ELEVATION SCHEDULE.

The tip elevation of piles for hydraulic structures, may be determined by the sur line.

When feasible bearing piles shall be driven full length and be spliced, only as approved by the Director of Structures, State Bridge Engineer. H piles are not acceptable for test piles.

Welding shall be done by the ELECTRIC ARC process. Welders shall be certified and electrodes shall be approved. When loading tests are required, the maximum test load shall be one and one half (1½) times the minimum pile bearing capacity.

PDA test piles shall require a 1 day restrike unless otherwise directed by the Engineer.

Pile lengths and driving criteria shall be provided based on the results of the PDA test piles.

The required ultimate pile bearing shown in the REQUIRED ULTIMATE PILE BEARING AND TIP ELEVATION SCHEDULE includes the LRFD resistance factor for PDA of 0.65.

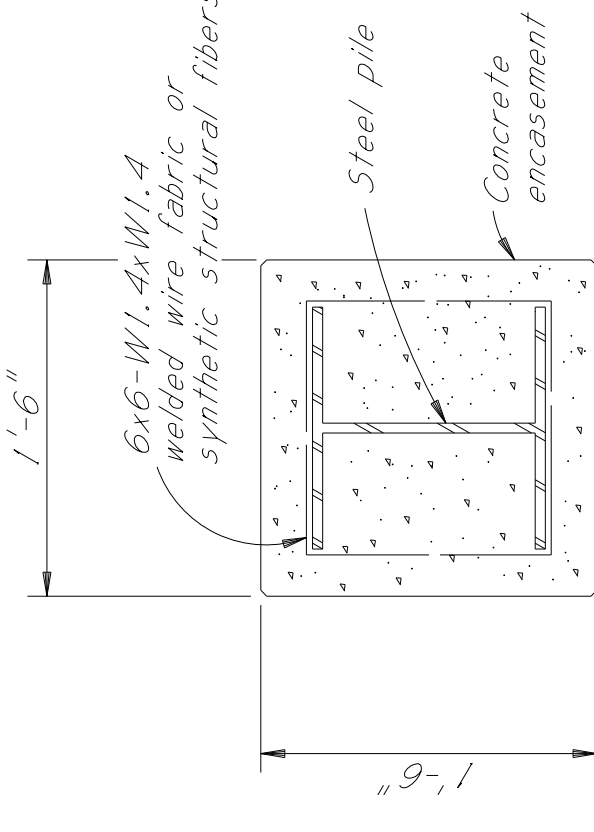
Pile hammer leads used for all PDA test piles and PDA restrikes shall be large enough to provide a minimum of 3" of clearance on each side of the pile in order to properly place and protect PDA gages.

Steel HP piles shall be driven with a maximum rated energy no less than 58,000 ft-lbs to the anticipated tip elevations specified unless the Contractor's Drivability Analysis utilizing the Contractor's selected alternative hammer is approved by the Director of Structures, State Bridge Engineer.

NOTE:
 Indicator test pile shall be 25'-0" from proposed centerline at Bent No. 2. See sheet no. B3 for location of test pile.

NOTE:
 Anywhere SP-0042-01(006) is shown as the project number, it shall be understood as BR-0042-01(010).

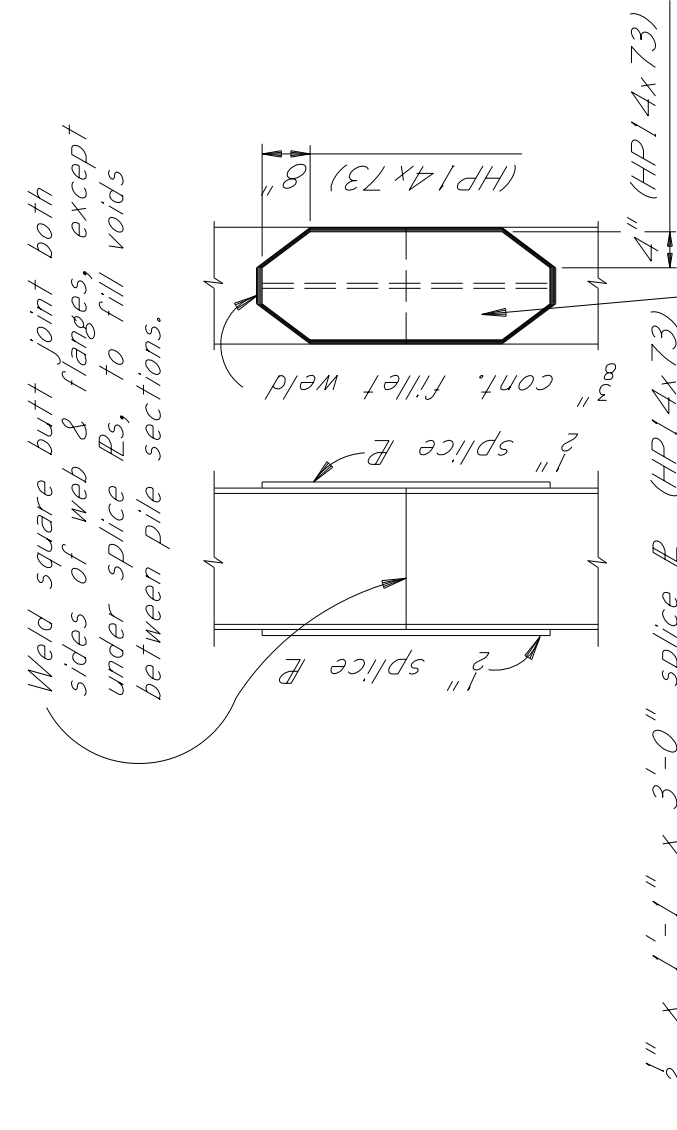
STATE	PROJECT NO.
MISS.	BR-0042-01(010)



NOTE: Concrete for pile encasement shall be class "AA" and will be paid for as bridge concrete. Class "AA" concrete with #67 aggregate may be used for pile encasement. Pile encasement shall be reinforced with 6x6-W1.4xW1.4 welded wire fabric weighing 0.21 lbs. per sq. ft. (not a separate pay item) or synthetic structural fiber applied at a dosage rate of 4 lbs. per cubic yd. Synthetic structural fiber shall meet requirements of Special Provision no. 907-711 (not a separate pay item). Chamfer corners of encasement #.

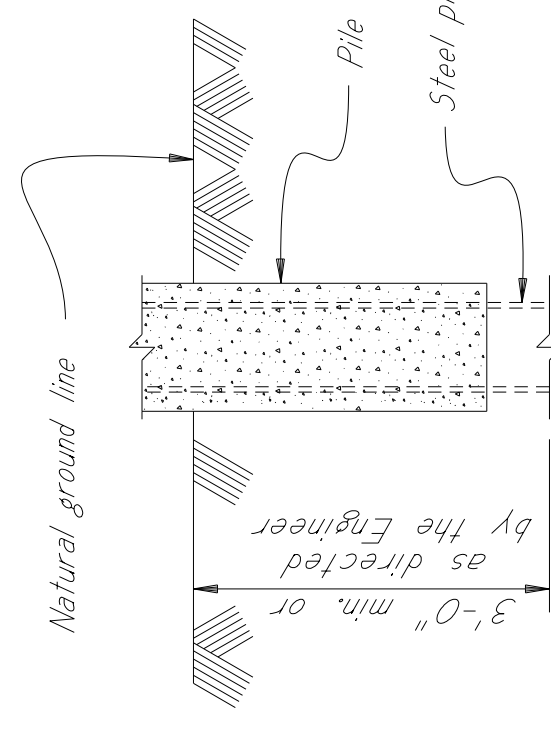
PILE ENCASEMENT DETAIL

HPI4x73 steel piles



PILE SPLICE DETAIL

HPI4x73 steel piles



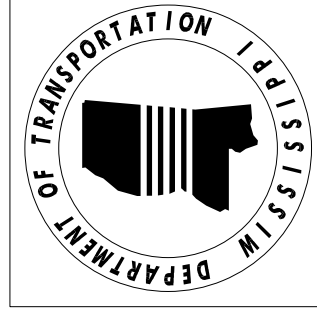
PILE ENCASEMENT DETAIL

HPI4x73 steel piles

PDA TEST PILE SCHEDULE		
Bent No.	Min. Lgth.-FF	Tip Elevation
1	45	399.4
⊕	65	381.4

NOTE: In lieu of splice plates, prefabricated splicers may be used. Prefabricated splicers shall be submitted for approval by the Director of Structures, State Bridge Engineer.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 BRIDGE AT STA. 248+58.92
 GENERAL NOTES &
 ESTIMATED QUANTITIES



FMS: 100573 / 301000
 COUNTY: KEMPER

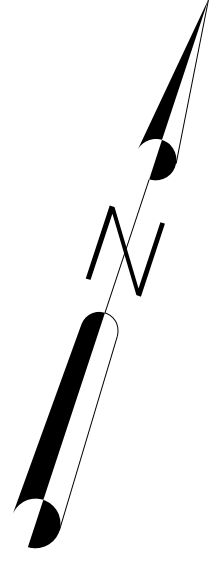
PROJECT NUMBER: BR-0042-01(010)

WORKING NUMBER
 BI OF B17
 SHEET NUMBER
 8024

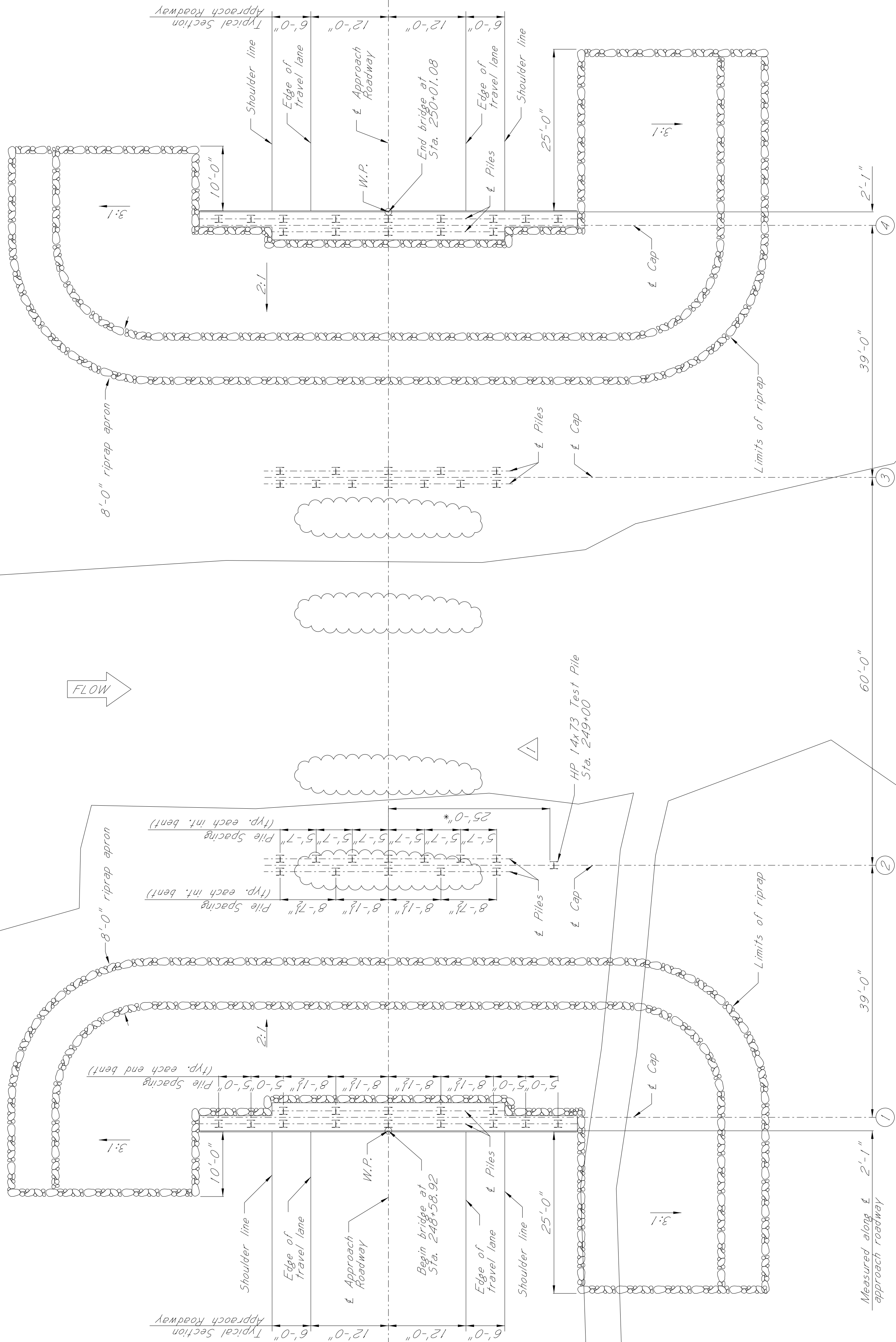
DATE	REVISION	BY
5/10/23		JMF

DESIGNER: Jason E. Foster
 CHECKER: Shime W. Abate
 ISSUED DATE: 2023-03-28
 DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER: W. MICHAEL PEE
 DEPT. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER: W. MICHAEL PEE

ADDENDUM



STATE PROJECT NO.
MISS. BR-0042-01(010)

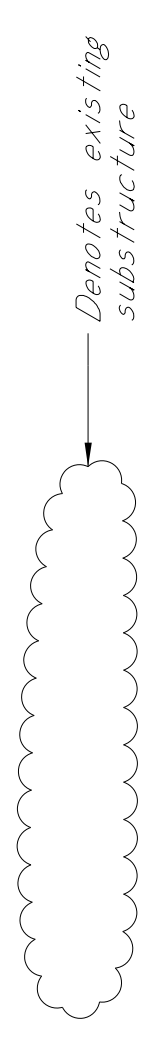


FOUNDATION PLAN
Scale: 1" = 10'-0"

NOTE:
Geotextile fabric is required under all riprap. All riprap and geotextile fabric shown on the bridge plans are included in the bridge quantities.

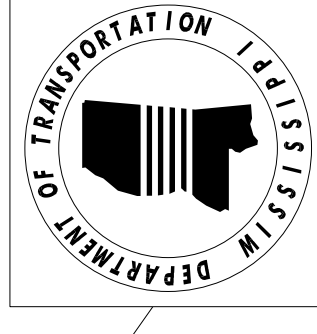
NOTE:
For general notes, quantities and additional details, see Sheets No. B1.

***NOTE:**
Indicator test pile shall be 25'-0" from proposed centerline at Bent No. 2.



Denotes existing substructure

DATE	REVISION	BY
5/10/23	Out-of-Place Test Pile Project Number	JWF



MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE AT STA. 248+58.92
SR 397 ACROSS UNNAMED CREEK
FOUNDATION PLAN

FMS: 100573 / 301000
COUNTY: KEMPER
PROJECT NUMBER: BR-0042-01(010)

WORKING NUMBER
B3 OF B17
SHEET NUMBER
8026

DESIGNER: Josh. Foster
CHECKER: Shime. W. Abal
ISSUE DATE: 2023-03-28
PROJECT NO.: BR-0042-01(010)
PROJECT TITLE: SR 397 UNNAMED CREEK
PROJECT NUMBER: BR-0042-01(010)
PROJECT ENGINEER: W. KEMPER, P.E.
DIRECTOR OF STRUCTURES, EAST STATE BRIDGE DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION