IN TH PH	CLUDED HIS ROJECT	BEGIN WITH SHEET
	ROADWAY	1
	PERMANENT SIGNS	1001
	TRAFFIC SIGNALS	2001
	ITS COMPONENTS	3001
	LIGHTING	4001
	(RESERVED)	5001
	ROADWAY STANDARD DWGS	6001
	BOX CULVERT STD. DRAWINGS (LRFD) .	7001
	BOX CULVERT STD. DRAWINGS (STD. SP	EC.)7501
\mathbf{X}	BRIDGE	8001
	CROSS SECTIONS	9001

BRIDGE STRUCTURES REQ'D.

(A) STA. 214+80 **BRIDGE NO. 107.9 REPAIRS REO'D. BENT 3 & 4**

BOX BRIDGES REQ'D. NONE





CONVENTIONAL SYMBOLS

COUNTY LINE
TOWN CORPORATION LINE
SECTION LINE
EXISTING ROAD OR TRAVELED WAY
PROPOSED ROAD OR TRAVELED WAY
SURVEY LINE
BRIDGES

LENGTH DATA

LENGTH OF ROADWAY	FT.	0.00	MI.
LENGTH OF BRIDGES	FT.	0.08	MI.
LENGTH OF PROJECT (NET)		0.08	MI.
LENGTH OF EXCEPTIONS	FT.	0.00	MI.
LENGTH OF PROJECT (GROSS)		0.08	MI.

106793/102000 P.E. ER-0063-04(010)

STATE	PROJECT NUMBER	SHE NC
MISSISSIPPI	ER-0063-04(010)	1

FMS CON. NO. 106793/302000



DESIGN C	ONTROL				
		M)			
		N)			
ADT () =: AD)T ()	=			
	0/ T	0/			
DHV = D =	% I	=70			
PERMITS ACQUIF	red by N	/IDOT			
WETLANDS AND W	ATERS PERM	TS			
	WATERS	WETLANDS			
GENERAL*	N				
GENERAL					
STORMWATER PERMIT					
REQUIRED, CNOI SUBMITTED BY MDOT					
Y (DISTURBED AREA = 5 ACRES)					
S REQUIRED, SCNOI TO BE SUBMITTED BY					
CONTRACTOR (1 TO 4.99 ACRES)					
N NO STORMWATER PERMIT REQUIRED (<1 ACRE)					
APPROVED BY:					



GREENE COUNTY ER-0063-04(010)

1st	O.R	REV.

DESCRIPTION OF SHEETS	WORKING NO(S).	SHEET NO(S).
DETAILED INDEX	DI-BR-1	8001
SR 42 ACROSS CHICKASAWHAY RIVER BRIDGE REPAIR	1	8002
SR 42 ACROSS CHICKASAWHAY RIVER	2	8003
FOUNDATION PLAN	3	8004
BENT NO. 3 REPLACEMENT DETAILS	4	8005
BENT NO. 3 REPLACEMENT DETAILS	5	8006
BENT NO. 3 REPLACEMENT DETAILS	6	8007
BENT NO. 4 REPLACEMENT DETAILS	7	8008
BENT NO. 4 REPLACEMENT DETAILS	8	8009
BENT NO. 4 REPLACEMENT DETAILS	9	8010
BENT NOS. 3 & 4 REPLACEMENT DETAILS	10	8011
DRILLED SHAFT DETAILS	11	8012
CAP BEAM SIDE PLATING DETAILS	12	8013
NEOPRENE PAD DETAILS	13	8014
PILE DEMOLITION PLAN	14	8015
MDOT BORING LOGS	15	8016
BURNS, COOLEY, DENNIS BORINGS	16	8017
INFORMATION PLANS - PROJECT NO. FH-S391(1)/S-0221(1)A		8018-8020

							MISS.	ER-0063-04(010)
		N						
	REVISIONS							
DATE	SHEET NO.		BY					
6/12/2019	8002, 8004		PCC					
				BΥ	MISSISSIPP	I DEPARTMEN	OF TRAN	SPORTATION
					BRI	DGE @ STA	. 214+8	0.00
Г				NS		DETAILEL	JINUEX	
	NC. CAM	.		EVISIO				
	S SED PROFESSION			¥	PROJECT	106/93/3 FP_0063	02000	
	Rujon Campl	ul)				LK-0003-		WORKING NUMBER
	27681 71, 05 MICS				GREENE	(COUNTY	DI-BR-1
	C C C MID S	,		ATE	DESIGNER <u>Amanda Blan</u> DETAILER <u>Amanda Blan</u>	kenship CHECKER P kenship ISSUE DATE RFS STATE RPIDGE ENGINEER	reston Campbell	SHEET NUMBER
	DATE: 06/12/19	/			DEP. DIR. OF STRUCTURES, AS	SSIST. STATE BRIDGE ENGINEER - J	SCOTT WESTERFIELD PE.	

STATE PROJECT NO.

DRILLED SHAFT NOTES: 1st O.REV.	STRUCTURAL STEE
The contractor shall notify the State Geotechnical Engineer at least three (3) days in advance of any shaft construction. Trial shafts shall be constructed as specified in Section 803 of the specifications. The trial shaft shall be constructed at locations shown on this sheet. The trial shaft will require the use of a temporary casing that shall be	Material surfaces for flam for welding to remove side web, and the web With the exception of su
the same length as the permanent casing specified for production shafts. The Contractor may reuse this casing in a production shaft. For computation of quantities, top of trial shaft shall be elev. 102.0. (approximate ground). Bottom of trial shaft shall be elev13.0.	that includes supporting Reports and the Fabric Of Structures, State D Repairs to base metal (in
reinforcing steel shall be identical to the production shall reinforcing steel as shown on sheet no. []. The length of trial shaft reinforcing steel cage shall be []5 ft. Roller type centralizers are required for construction of all drilled shafts. Under no circumstance shall the pitch of the spiral reinforcement be adjusted	an approved welding reposed welding reposed welding reposed and location of the conformance report. Application conformance required processes and the conformation of
to accommodate the installation of the chosen centralizer device. All excavated material from drilled shaft construction shall be hauled from the site expeditiously in order to prevent the material from getting into the river. The Contractor will not be allowed to stockpile material along the riverbank. Those will be so considered.	where welding or other Quality control inspections inspections. Quality con to the MDOT Shop Insp
absorbed in the other items bid.	NDE applications for unus fabricator to determine and acceptance standar
 Construct work platform at bent nos. 3 & 4. Construct replacement bent nos. 3 & 4 per these plans. Remove existing piling at bent nos. 3 & 4 per the demolition plan on sheet no. 14. All refuse will become property of contractor and removed from site 	the Director Of Struct Radiography of weld trans side of the transition. A floating center punch s and shall be visible on
INFORMATION PLANS	Prior to any fabrication, procedures, a procedur wire and flux and a f
Original Plans Project No. FH-S-39-1(1)/S-0221(1)A For priginal bridge plans, see INFORMATION PLANS on sheet A	approved by the Direct shall begin until a pre-
nos. 8018-8020. Additional information on the existing bridge is available for inspection in the bridge division.	have been inspected an Engineer. A pre-fabrica location unless otherwis Engineer.
<u>GENERAL NOTES:</u>	Prior to fabrication, the procedures to the Dire
Specifications: Mississippi Standard Specifications For Road And Bridge Construction, 2017	The NDE procedure sho each inspection process
No change of plans will be permitted except by written approval of the Director of Structures, State Bridge Engineer. Minor changes in details of design or construction procedure may be authorized by the Director of Structures, State Bridge Engineer, provided such	Breaks in fabrication shall Director Of Structures mobilization of MDOT M Field connections shall be
changes will not be cause for contract price adjustment. Bridge concrete shall be Class "AA" unless noted otherwise. Bar bending details shall be in accordance with "Manual Of Standard Prostice for Detailing Reinforced Concrete Structures" (ACL 315R-04)	Gr. A325 Type 3, unit with threaded ends pro NOTES ON BOLTS, NU
Reinforcement order lists and required placing plans shall be furnished in accordance with section 805 of the Mississippi Standard Specifications.	Each high strength bolt si joint are tight, at leas I" Dia. Bolts 51,
Concrete surfaces shall receive a Class 2 rubbed or spray finish in accordance with the specifications. Rainforcing stool shall be ASTM 4615 Grade 60 unless otherwise noted	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Work for which no pay items are provided in the proposal will not be paid for directly and compensation therefore will be included in the prices and payments for bid items.	High strength bolts, nuts, domestic products and containers or approved with the rotational cap
<u>STRUCTURAL STEEL NOTES:</u>	, possible at any stage the weather in a locat
Special attention is called to section 810 of The Mississippi Standard Specifications concerning shop drawings, assembly and erection of steel structures	remain unopened until i All fasteners shall be sau

structures. Structural steel plates and shapes shall conform to ASTM designation A709, Grade 50W as noted in the plans.

All girder webs and flanges shall meet the longitudinal charpy-v-notch toughness test.

Miscellaneous steel less than $\frac{1}{4}$ thick shall be approved by The Director Of Structures, State Bridge Engineer and shall be identified on the shop drawings. This steel will be included in the structural steel quantity and payment will be made as ASTM A709, Grade 50W Steel.

Web and flange material heat numbers shall be stenciled on each girder using low stress die stamps. The heat numbers shall be stamped on the near side of the web in the upper left hand corner or as directed by The MDOT Shop Inspector. All welding shall be done by the electric arc process and shall conform to the

AASHTO/AWS DI.5 BRIDGE WELDING CODE, and as directed herein.

Certification for all welders to be used on this project shall be submitted to the Director Of Structures, State Bridge Engineer through the Shop Inspector. Welding machines shall have operating, properly calibrated current meters with attached calibration stickers.

Run-off tabs of adequate length shall be used to help prevent weld defects at weld edges.

	TRIAL SHAFT SCHEDULE									
	Station	Location	Shaft Diameter (In.)	Estimated Length (Ft.)	Tip Elevation					
\triangle	215+30	40' It. Lt. of £ SR 42	60	115	-13.0					

containers shall be marked stamped by the MDOT Inspe Bent No.

3

4

<u>Z N</u>

ange all n edge

- urface groov ing doc
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- shall each the
- ire for flux re stor 0. -fabric and app ation ise dir
- Fabri rector hall ind ano
- all requ os, Sta Inspec e 8
- nless c otecte UTS, shall b ast a 1,500 2,250

- 400
- ,200
- wasi ' shall equa oacity prior tion a the co
- ampled

TIP ELEVATION SCHEDULE							
Shaft Diameter (In.)	Estimated Length (Ft.)	Minimum Tip Elevation					
60	100	12.8					
60	100	7. 7					

21 MUCLINAL SIEL INVIES ICONVINCEUX: The Contractor shall submit a falsewark and erection plan for erection of the steel structure in accordance with section 810 of the specifications to the Director of Structures, State Bridge Engineer for approval. MA To be elgible for advance payment as allowed by the Specifications, all structural And steel shall be completely fabricated and ready for shipment. Structures steel And to considered fabricated when all welding, testing, bissing, repair, fit up is and shap assembly, including the drilling of the members and spice plates, a shall be considered fabricated when all welding, testing, bissing, repair the Director The Engineer. Dec (i) Structures, State Bridge Engineer. The office shall be provided as directed by the Director Di Structures, State Bridge Engineer. The office shall be provided with adequate healing, ventilation and air conditioning. The office shall be provided with adequate healing, ventilation and air conditioning. The office shall be access to convenient sontary facilities with running water. The office shall be provided with adequate healing, ventilation and air conditioning. The office shall be provided with adequate healing, ventilation and air conditioning water. The office shall be provided the Fabricator shall provide Engineer. MDD shap inspection personnel convenient supection personnel only. Convenient and adequate parking shall be provided. The Fabricator shall provide Engineer. MDD shap inspection or facilities shall be made only upon machine charges in clice localition or facilities shall be made only upon the approval of the Director Of Structures, State Bridge Engineer. MDD shap inspection or facilities shall be andee only upon testherely and the approval. <t< th=""><th>MISS. ER-0003-04(010) INTERNANCE OF TRAFFIC NOTE: aintenance of traffic plan will not be required. The bridge is currently closed and will remain closed to traffic for the wration of the project. IFT REMOVAL NOTE: Contractor shall be responsible for removing all drift build up t bent nos. 3 and 4. All cost associated with the removal of rift shall be absorbed. MOVAL OF WORK PLATFORM NOTE: completion of work, the riprap work platform shall be removed d/or regraded to the slope(s) indicated in the Project No. PCOB3-04(1006) plans. Any excess riprap following removal of the park platform is to be hauled to and stockpiled at a location signated by the Engineer within two (2) miles of the project. The st associated with the removal, regrading, hauling, and stockpiling e to be absorbed in the pay item 815-A007 Loose Riprap, ze 300. ITRACTOR FIELD VERIFICATION & SHOP DRAWING MITTAL NOTES: Prior to fabrication and construction, the Contractor shall field verify the dimensions of the existing structure. The Contractor shall be responsible for adjusting the elements of the new construction to ensure proper fit with the existing structure. Prior to fabrication and construction, the Contractor shall submit verification of the existing bridge elements associated with pay items nos. 803-K008 Drilled Shaft, 60° Diameter, 803-009 Permanent Casing, 60° Diameter, and 810-A007 Structural Steel, A 709, Grade 50W to the Director of Structures, State Bridge Engineer for approval.</th></t<>	MISS. ER-0003-04(010) INTERNANCE OF TRAFFIC NOTE: aintenance of traffic plan will not be required. The bridge is currently closed and will remain closed to traffic for the wration of the project. IFT REMOVAL NOTE: Contractor shall be responsible for removing all drift build up t bent nos. 3 and 4. All cost associated with the removal of rift shall be absorbed. MOVAL OF WORK PLATFORM NOTE: completion of work, the riprap work platform shall be removed d/or regraded to the slope(s) indicated in the Project No. PCOB3-04(1006) plans. Any excess riprap following removal of the park platform is to be hauled to and stockpiled at a location signated by the Engineer within two (2) miles of the project. The st associated with the removal, regrading, hauling, and stockpiling e to be absorbed in the pay item 815-A007 Loose Riprap, ze 300. ITRACTOR FIELD VERIFICATION & SHOP DRAWING MITTAL NOTES: Prior to fabrication and construction, the Contractor shall field verify the dimensions of the existing structure. The Contractor shall be responsible for adjusting the elements of the new construction to ensure proper fit with the existing structure. Prior to fabrication and construction, the Contractor shall submit verification of the existing bridge elements associated with pay items nos. 803-K008 Drilled Shaft, 60° Diameter, 803-009 Permanent Casing, 60° Diameter, and 810-A007 Structural Steel, A 709, Grade 50W to the Director of Structures, State Bridge Engineer for approval.
structure, in accordance with section 8/0 of the specifications to the Director of Structures, State Bridge Engineer for approval. To be eligible for advance payment as allowed by the Specifications, all structural the stall be completely labricated and ready for shipment. Since the stall be considered fabricated when all wolding, testing, blasting, repair, fill up in and shop assembly, including the drilling of the members and spice polates, and scope test developed by the Director Of Structures, State Bridge Engineer. The Fabricator shall furnish MDOT shop inspection personnel with at least 140 square the fabricated when all wolding, testing, blasting, repair, fill up in the fabricated when all wolding, testing, blasting, repair, fill up in the fabricator shall furnish MDOT shop inspection personnel with at least 140 square faet of floor space. Additional space shall be provided as directed by the Director of Structures, State Bridge Engineer. The office shall be provided with adequate heating, ventilation and air conditioning. The office shall be provided with adequate heating, ventilation and are contexient payse inspection personnel only. Upon convenient and adequate parking shall be provided. The Fabricator shall provide developed where there is MDOT shop inspection personnel convenient access to a lax machine and a copy EX MDOT shop inspection personnel convenient access for a law machine. Changes in office location or facilities shall be made only upon doproval of the Director Of Structures, State Bridge Engineer. The formation shall meet the requirements of Zone 1 for fracture critical, T, material. State Bridge Fabricaton with shall be clonered shall be cleaned in accordance with section 814 of the Standard Specifications. CONSTRUCTION FIELO WELDING NOTES: All field welding shall be cleaned in accordance with section 814 of the Standard Specifications. CONSTRUCTION FIELO WELDING NOTES: All field welding shall be conserved shall be present for all field welding shall be construction of the ASTM A	INTERNANCE OF TRAFFIC NOTE: aintenance of traffic plan will not be required. The bridge is currently closed and will remain closed to traffic for the invation of the project. IT REMOVAL NOTE: Contractor shall be responsible for removing all drift build up t bent nos. 3 and 4. All cost associated with the removal of rift shall be absorbed. MOVAL OF WORK PLATFORM NOTE: Completion of work, the riprap work platform shall be removed d/or regraded to the slope(s) indicated in the Project No. R-0063-041006) plans. Any excess riprap following removal of the rist associated with the removal, regrading, hauling, and stockpiling to be absorbed in the pay item 815-A007 Loose Riprap, ze 300. ITRACTOR FIELD VERIFICATION & SHOP DRAWING MITTAL NOTES: Prior to fabrication and construction, the Contractor shall field verify the dimensions of the existing structure. The Contractor shall be responsible for adjusting the elements of the new construction to ensure proper fit with the existing structure. Prior to fabrication and construction, the Contractor shall submit verification of the existing bridge elements of the new construction to ensure proper fit with the existing structure. Prior to fabrication and construction, the Contractor shall submit verification of the existing bridge elements of the new construction to ensure proper fit with the existing structure. Prior to fabrication and construction, the Contractor shall submit verification of the existing bridge elements of Structure. Prior to fabrication and construction of Structures, State Bridge Engineer for approval. Gaps shall be reduced to 0,005" or less 8 measured with a feeler gauge.
Engineer. The Fabricator shall furnish MDOT shop inspection personnel with at least 140 square feet of floor space. Additional space shall be provided as directed by the Director OF Structures, State Bridge Engineer. The office shall contain desks, chairs, file a cobinets, telephone with long distance access, electric lights, power outlets, shelves and tables. The office shall be provided with adequate heating, ventilation and air conditioning. The office shall be provided with adequate heating, ventilation and air conditioning water. The office shall be used for MDOT shop inspection personnel only. EEM office shall be used for MDOT shop inspection personnel only. Out excessive noise and shall be used for MDOT shop inspection personnel only. at adoption personnel convenient access to a fax machine and a copy machine. Charges in office location or facilities shall be made only upon approval of the Director Of Structures, State Bridge Engineer. de For the plate girder components designated as "ASTM ATO9, Gr. SOW," provide steel at STM ATO9, Gr. SOW." provide steel at plate girder components shall be cleaned in accordance with Section 814 of the Structure Structures, State Bridge Engineer. i. CONSTRUCTION FIELD WELDING NOTES: i. i. All field welding shall be performed by certified welders with approved electrodes and supplies specifications. i. MI field welding shall be performed by certified welders with approved electrodes and supplies specification with give a code, the latest edition of the ASSIM Contorn to the ANSI/AASHTO/AWS DI.5 bridge welding code, the latest edition of the ASSIM ASTO Guide Specification is and approcedure for start grade and anding of electrode	IFT REMOVAL NOTE: Contractor shall be responsible for removing all drift build up then nos. 3 and 4. All cost associated with the removal of rift shall be absorbed. MOVAL OF WORK PLATFORM NOTE: completion of work, the riprap work platform shall be removed d/or regraded to the slope(s) indicated in the Project No. R-063-041006) plans. Any excess riprap following removal of the reform is to be hauled to and stockpiled at a location signated by the Engineer within two (2) miles of the project. The st associated with the removal, regrading, hauling, and stockpiling to be absorbed in the pay item 815-A007 Loose Riprap, ze 300. ITRACTOR FIELD VERIFICATION & SHOP DRAWING MITTAL NOTES: Prior to fabrication and construction, the Contractor shall field verify the dimensions of the existing structure. The Contractor shall be responsible for adjusting the elements associated with pay items nos. 803-K008 Drilled Shaft, 60" Diameter, 803-0009 Permenent Casing, 60" Diameter, and 810-A007 Structural Steel, A 709, Grade 50W to the Director of Structures, State Bridge Engineer for approval.
contrioning, the office shall be access to convenient senitery locitities RETM with running water. The office shall be in good repair, located where there is If in a excessive noise and shall be used for MDOT ship inspection personnel only. Convenient and adequate parking shall be provided. The Fabricator shall provide Office and the provide of MDOT ship inspection personnel only. MDOT shop inspection personnel convenient access to a fax machine and a copy Office and the provide of the Director Of Structures, State Bridge Engineer. For the plate girder components designated as "ASTM ATO9, Gr. 50W." provide steel Octation of the requirement of ASTM ATO9, Gr. 50W." provide steel Critical, T, material. Structures, shall meet the requirements of Zone I for fracture Structure of the Specifications. CONSTRUCTION FIELD WELDING NOTES: I I Structure of the shall be done by the electric arc process and shall conform to the ANSI/AASHTO/AWS D1.5 bridge welding code, the latest edition of the AASHTO Guide Specification for Highway Bridge Fabrication with high performance steel. A Certified Welding Inspector shall be present for all field welding. I All field welding shall be performed by certified welders with approved electrodes and materials to be used for field welding shall be submitted to the Director of Structures, State Bridge Engineer through the project engineer for approval prior to construction. MI field welding shall be inspected by a Certified Welding Inspector (CWI) specific to ASTM A TO9 Gr. 50W. Welding prior to acceptance by MDOT. Any field weld fo	IDVAL OF WORK PLATFORM NOTE: completion of work, the riprap work platform shall be removed d/or regraded to the slope(s) indicated in the Project No. P-0063-04(006) plans. Any excess riprap following removal of the new platform is to be hauled to and stockpiled at a location isignated by the Engineer within two (2) miles of the project. The st associated with the removal, regrading, hauling, and stockpiling to be absorbed in the pay item 815-A007 Loose Riprap, a 300. ITRACTOR FIELD VERIFICATION & SHOP DRAWING MITTAL NOTES: Prior to fabrication and construction, the Contractor shall field verify the dimensions of the existing structure. The Contractor shall be responsible for adjusting the elements of the new construction to ensure proper fit with the existing structure. Prior to fabrication and construction, the Contractor shall submit verification of the existing bridge elements associated with pay items nos. 803-K008 Drilled Shaft, 60" Diameter, 803-0009 Permanent Casing, 60" Diameter, and 810-A007 Structural Steel, A 709, Grade 50W to the Director of Structures, State Bridge Engineer for approval.
that conforms to the requirement of ASTM A709, Gr. 50WT. Impact testing for all plate girder components shall meet the requirements of Zone I for fracture critical, T, material. Structural steel surfaces shall be cleaned in accordance with Section 814 of the Standard Specifications. CONSTRUCTION FIELD WELDING NOTES: All field welding shall be done by the electric arc process and shall conform to the ANSI/AASHTO/AWS DI.5 bridge welding code, the latest edition of the AASHTO Guide Specification for Highway Bridge Fabrication with high performance steel. A Certified Welding Inspector shall be present for all field welding shall be performed by certified welders with approved electrodes and supplies specific to weathering steel ASTM A709, Gr. 50W. Certification for all welders and a procedure for storage and handling of electrodes and materials to be used for field welding shall be submitted to the Director of Structures, State Bridge Engineer through the project engineer for approval prior to construction. All field welds shall be inspected by a Certified Welding Inspector (CWI) specific to ASTM A 709 Gr. 50W welding prior to acceptance by MDOT. Any field weld found not to be in conformance by the CWI shall be redone and any material damaged beyond repair shall be replaced at the Contractor's expense. DEBRIS REMOVAL NOTE: To the duration of the project, care shall be exercised to ensure that no	e to be absorbed in the pay item 815-A007 Loose Riprap, ize 300. <u>ITRACTOR FIELD VERIFICATION & SHOP DRAWING</u> <u>MITTAL NOTES:</u> Prior to Sabrication and construction, the Contractor shall field verify the dimensions of the existing structure. The Contractor shall be responsible for adjusting the elements of the new construction to ensure proper fit with the existing structure. Prior to Sabrication and construction, the Contractor shall submit verification of the existing bridge elements associated with pay items nos. 803-KO08 Drilled Shaft, 60" Diameter, 803-0009 Permanent Casing, 60" Diameter, and 810-A007 Structural Steel, A 709, Grade 50W to the Director of Structures, State Bridge Engineer for approval. Gaps shall be reduced to 0.005" or less & measured with a feeler gauge.
Standard Specifications. Standard Specifications. Standard Specifications. CONSTRUCTION FIELD WELDING NOTES: I. All field welding shall be done by the electric arc process and shall conform to the ANSI/AASHTO/AWS D1.5 bridge welding code, the latest edition of the AASHTO Guide Specification for Highway Bridge Fabrication with high 2. All field welding shall be performed by certified welders with approved electrodes and supplies specific to weathering steel ASTM ATO9, Gr. SOW. Certification for all welders and a procedure for storage and handling of electrodes and materials to be used for field welding shall be submitted to the Director of Structures, State Bridge Engineer through the project engineer for approval prior to construction. All field welds and I be inspected by a Certified Welding Inspector (CWI) specific to ASTM A TO9 Gr. SOW welding prior to acceptance by MDOT. Any field weld found not to be in conformance by the CWI shall be redone and any material damaged beyond repair shall be replaced at the Contractor's expense. DEBRIS REMOVAL NOTE: For the duration of the project, care shall be exercised to ensure that no	Prior to Subscription and construction, the Contractor shall field verify the dimensions of the existing structure. The Contractor shall be responsible for adjusting the elements of the new construction to ensure proper fit with the existing structure. Prior to Subscription and construction, the Contractor shall submit verification of the existing bridge elements associated with pay items nos. 803-KOO8 Drilled Shaft, 60" Diameter, 803-0009 Permanent Casing, 60" Diameter, and 810-A007 Structural Steel, A 709, Grade 50W to the Director of Structures, State Bridge Engineer for approval. Gaps shall be reduced to 0.005" or less & measured with a feeler gauge.
CONSTRUCTION FIELD WELDING NOTES: All field welding shall be done by the electric arc process and shall conform to the ANSI/AASHTO/AWS DI.5 bridge welding code, the latest edition of the AASHTO Guide Specification for Highway Bridge Fabrication with high 2: performance steel. A Certified Welding Inspector shall be present for all field welding. All field welding shall be performed by certified welders with approved electrodes and supplies specific to weathering steel ASTM ATO9, Gr. 50W. Certification for all welders and a procedure for storage and handling of electrodes and materials to be used for field welding shall be submitted to the Director of Structures, State Bridge Engineer through the project engineer for approval prior to construction. All field welds shall be inspected by a Certified Welding Inspector (CWI) specific to ASTM A TO9 Gr. 50W welding prior to acceptance by MDOT. Any field weld found not to be in conformance by the CWI shall be redone and any material damaged beyond repair shall be replaced at the Contractor's expense. DEBRIS REMOVAL NOTE: For the duration of the project, care shall be exercised to ensure that no	verify the dimensions of the existing structure. The Contractor shall be responsible for adjusting the elements of the new construction to ensure proper fit with the existing structure. Prior to fabrication and construction, the Contractor shall submit verification of the existing bridge elements associated with pay items nos. 803-K008 Drilled Shaft, 60" Diameter, 803-0009 Permanent Casing, 60" Diameter, and 810-A007 Structural Steel, A 709, Grade 50W to the Director of Structures, State Bridge Engineer for approval.
 All field weiding shall be done by the electric arc process and shall conform to the ANSI/AASHTO/AWS D1.5 bridge weiding code, the latest edition of the AASHTO Guide Specification for Highway Bridge Fabrication with high 2. performance steel. A Certified Welding Inspector shall be present for all field welding. All field welding shall be performed by certified welders with approved electrodes and supplies specific to weathering steel ASTM A709, Gr. 50W. Certification for all welders and a procedure for storage and handling of electrodes and materials to be used for field welding shall be submitted to the Director of Structures, State Bridge Engineer through the project engineer for approval prior to construction. All field welds shall be inspected by a Certified Welding Inspector (CWI) specific to ASTM A 709 Gr. 50W welding prior to acceptance by MDOT. Any field weld found not to be in conformance by the CWI shall be redone and any material damaged beyond repair shall be replaced at the Contractor's expense. DEBRIS REMOVAL NOTE: 	construction to ensure proper fit with the existing structure. Prior to fabrication and construction, the Contractor shall submit verification of the existing bridge elements associated with pay items nos. 803-K008 Drilled Shaft, 60" Diameter, 803-0009 Permanent Casing, 60" Diameter, and 810-A007 Structural Steel, A 709, Grade 50W to the Director of Structures, State Bridge Engineer for approval. Gaps shall be reduced to 0.005" or less 8 measured with a feeler gauge.
 All field welding shall be performed by certified welders with approved electrodes and supplies specific to weathering steel ASTM A709, Gr. 50W. Certification for all welders and a procedure for storage and handling of electrodes and materials to be used for field welding shall be submitted to the Director of Structures, State Bridge Engineer through the project engineer for approval prior to construction. All field welds shall be inspected by a Certified Welding Inspector (CWI) specific to ASTM A 709 Gr. 50W welding prior to acceptance by MDOT. Any field weld weld found not to be in conformance by the CWI shall be redone and any material damaged beyond repair shall be replaced at the Contractor's expense. DEBRIS REMOVAL NOTE: 	Permanent Casing, 60" Diameter, and 810-A007 Structural Steel, A 709, Grade 50W to the Director of Structures, State Bridge Engineer for approval. Gaps shall be reduced to 0.005" or less & measured with a feeler gauge.
prior to construction. All field welds shall be inspected by a Certified Welding Inspector (CWI) specific to ASTM A 709 Gr. 50W welding prior to acceptance by MDOT. Any field weld found not to be in conformance by the CWI shall be redone and any material damaged beyond repair shall be replaced at the Contractor's expense. <u>DEBRIS REMOVAL NOTE:</u> For the duration of the project, care shall be exercised to ensure that no	Gaps shall be reduced to 0.005" or less & measured with a feeler gauge.
<u>DEBRIS REMOVAL NOTE:</u> For the duration of the project, care shall be exercised to ensure that no	
For the duration of the project, 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.	Tension indicator under head.
DESIGN DATA	Turn nut to tighten.
SpecificationsA.A.S.H.T.O. 2002 LoadingHS-20 Seismic Performance ZoneZone I	<u>ECT TENSION INDICATOR INSTALLATION</u>
Site ClassD Operational ClassOther Cancroto	
Stephene Steel Casing	<u>AND DIRECT TENSION INDICATORS:</u>
STructural Steel	ngth bolts shall meet the requirements of ASTM A325, Gr. A325 3. Maximum hardness for high strength bolts shall be 33
<u>SPECIAL PROVISIONS REQUIRED</u> Nuts for Maturity Meters In Drilled Shafts	II C (RC). high strength bolts shall be heavy hex and meet the requirements TM A563, Grade DH3. steel washers shall meet the requirements of ASTM F436
Type Type	3. nsion indicators shall meet the requirements of ASTM F959, 325-3.
High stre. after Mill test	ngth bolts, nuts, or direct tension indicators shall not be reused tightening. reports. certified test reports. and certificates of compliance are
E OUANTITIES require tension	d for high strength bolts, nuts, hardened washers and direct indicators.
e Piling 14 Each	
Diameter 400 1F	MISSISSIPPI DEPARTMENT OF TRANSPORTATION
Diameter 115 LF	BRIDGE @ STA. 214+80.00
40 LF 0" Diameter 280 3" Diameter 76	SR 42 ACROSS CHICKASAWHAY RIVER
Image: construction Image: construction Imag	
P. Grade 50W 104,169 LBS De 300 * 7,700 TON	ER-0063-04(010)
sumed 6,600 square foot work platform at	UNCLINE UNCLINE DESIGNER Amanda Blankenship CHECKER Preston Campbell DETAILER Amanda Blankenship
DATE: 06/12/19	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER PE. 8002 DEP. DIR. OF STRUCTURES, ASSIST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD PE.

<u>SIRUCIUKAL SIE</u> The Contractor shall su structure in accorda								
structure in accorda	<u>EL IVUIES (CUNII)</u> ubmit a falsework and ei	<u>IVUEUI:</u> rection plan for d	erection of the steel		MISS.	ER-0063-04(010)		
structure in accordance with section 810 of the specifications to the Director of Structures, State Bridge Engineer for approval. To be eligible for advance payment as allowed by the Specifications, all structural steel shall be completely fabricated and ready for shipment. Structural steel shall be considered fabricated when all welding, testing, blasting, repair, fit up				<u>MAINTENANCE OF TRAFFIC NOTE:</u> A maintenance of traffic plan will not be required. The bridge is currently closed and will remain closed to traffic for the				
and shop assembly, i have been completed	including the drilling of 1 and accepted by the Di	the members and Pirector Of Struc.	splice plates, tures, State Bridge	duration of the project.				
Engineer. The Fabricator shall furnish MDOT shop inspection personnel with at least 140 square feet of floor space. Additional space shall be provided as directed by the Director Of Structures, State Bridge Engineer. The office shall contain desks, chairs, file cabinets, telephone with long distance access, electric lights, power outlets, shelves and tables. The office shall be provided with adequate heating, ventilation and air				<u>DRIFT REMOVAL NOTE:</u> The Contractor shall be responsible for removing all drift build up at bent nos. 3 and 4. All cost associated with the removal of drift shall be absorbed.				
conditioning. The offic with running water. I not excessive noise Convenient and adequ MDOT shop inspection machine. Changes in a approval of the Dire	ice shall have access to The office shall be in go and shall be used for N nate parking shall be pro on personnel convenient a office location or facilit octor Of Structures, Sta	convenient sanit nod repair, locate MDOT shop inspect vided. The Fabric faccess to a fax ties shall be made ate Bridge Engine	ary facilities ed where there is tion personnel only. cator shall provide machine and a copy e only upon er.	<u>REMOVAL OF WORK PLATFORM</u> Upon completion of work, the riprap work and/or regraded to the slope(s) indica ER-0063-04(006) plans. Any excess i work platform is to be hauled to and designated by the Engineer within two	<u><i>1 NOTE:</i></u> by platform shall be ted in the Project riprap following re stockpiled at a lo (2) miles of the p	e removed t No. moval of the pcation project. The		
For the plate girder co that conforms to the plate girder componen critical. T. material.	omponents designated as e requirement of ASTM nts shall meet the requi	"ASTM A709, C A709, Gr. 50W rements of Zone	Gr. 50W," provide steel T. Impact testing for all for fracture	cost associated with the removal, regr are to be absorbed in the pay item 8 Size 300.	rading, hauling, and 215-A007 Loose F	' stockpiling Riprap,		
Structural steel surfact Standard Specificatic	res shall be cleaned in a ons.	accordance with S	Section 814 of the	<u>CONTRACTOR FIELD VERIFICAT</u> <u>SUBMITTAL NOTES:</u>	TION & SHOP	<u>DRAWING</u>		
<u>CONS TRUCTION F</u>	IELD WELDING NO	0 <i>TES:</i>		I. Prior to Tabrication and construction verify the dimensions of the existing	n, the Contractor g structure. The	shall Tield Contractor		
411 field welding shall be the ANSI/AASHTO/A AASHTO Guide Specin performance steel. A	e done by the electric d WS D1.5 bridge welding fication for Highway Brid Certified Welding Inspec	arc process and code, the latest dge Fabrication w ctor shall be pre	shall conform to ' edition of the with high sent for all	shall be responsible for adjusting th construction to ensure proper fit w 2. Prior to fabrication and construction verification of the existing bridge en	he elements of the with the existing s n, the Contractor lements associated	e new tructure. shall submit with pay		
field welding. All field welding shall be and supplies specific for all welders and e materials to be used Structures, State Br	e performed by certified to weathering steel AS a procedure for storage for field welding shall b ridge Engineer through th	l welders with ap TM A709, Gr. 5 and handling of be submitted to e project enginee	oproved electrodes OW. Certification electrodes and the Director of or for approval	items nos. 803-K008 Drilled Shaft, Permanent Casing, 60" Diameter, an A 709, Grade 50W to the Director Bridge Engineer for approval.	60" Diameter, E d 810-A007 Stru r of Structures,	303-0009 ictural Steel, State		
prior to construction. 411 field welds shall be to ASTM A 709 Gr. found not to be in con damaged beyond repair	inspected by a Certified 50W welding prior to a nformance by the CWI s shall be replaced at th	d Welding Inspect cceptance by MD shall be redone at the Contractor's e	tor (CWI) specific OT. Any field weld nd any material xpense.		— Gaps shall be to 0.005" or measured with gauge.	reduced less & a feeler		
DEBRIS REMOVAL For the duration of the debris fall into the hy is removed from the b and shall be removed i	<u>NOTE:</u> project, care shall be draulic crossing below the bridge shall become the p from the construction si	exercised to ens he structure. The property of the o te.	sure that no debris that Contractor		Tension indicator	r under head.		
				Hardened washer —		htop		
<u>DESIGN DATA</u>					lurn nut to tigi	// <i>E//.</i>		
<u>DESIGN DATA</u> Specifications Loading		4. <i>5.H.T.O. 2002</i> - <i>20</i>		<i>DIRECT TENSION INDICATOR I</i>	Turn nut to tigi NSTALLATION	/		
<u>DESIGN DATA</u> Specifications Loading Seismic Performance Zo Site Class	A.A HS oneZon D	4. <i>5.H.T.O. 2002</i> - <i>20</i> e I		<i>DIRECT TENSION INDICATOR I</i>	Turn nut to tigi NSTALLATION	/		
<u>DESIGN DATA</u> Specifications Loading Seismic Performance Zo Site Class Operational Class Concrete	A.A. 	4. S. H. T. O. 2002 -20 e 1 er er	osil	DIRECT TENSION INDICATOR I	lurn nut to tigi			
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						STATE PROJECT NO.	
IOTES (CONTINUED):		<u>STRUCTURAL STEEL</u>	<u>NOTES (CONTINUED):</u>			MISS. ER-0063-04(010)	
to web fillet welds shall be ground mill scale. This area includes the fil	prior to lit-up Janae. near and lar	The Contractor shall submit structure in accordance	a falsework and erection plan with section 810 of the specific	for erection of the steel cations to the Director of			
e.		Structures, State Bridge	Engineer for approval.			0 T C	
e condition repairs to correct under we welds require an approved weldin	rcut or overlap	To be eligible for advance p steel shall be completely	payment as allowed by the Spec. Sabricated and ready for shipm	cifications, all structural	MAINTENANCE OF TRAFFIC NO	<u>J/E:</u>	
cumentation, size and location of th	he repair, NDE	shall be considered fabric	ated when all welding, testing, b	blasting, repair, fit up	A mainienance of Trattic plan will not be required. The bridge is currently closed and will remain closed to traffic for the		
's non-conformance report. Approval	I from the Director	and shop assembly, includ	ling the drilling of the members	and splice plates,	duration of the project.		
e Engineer is required prior to per no flame cut edges with excessive	forming These repairs. poupes) require	have been completed and Engineer.	accepted by the Director UI S	Tructures, State Bridge			
procedure that includes supporting	documentation,	The Fabricator shall furnish	MDOT shop inspection personne	of with at least 140 square	<u>DRIFT REMOVAL NOTE:</u>		
epair, NDE reports and the Fabrican val from the Director Of Structures	tor's non-	feet of floor space. Add	litional space shall be provided d ideo Engineer. The office shall o	as directed by the Director	The Contractor shall be responsible for	removing all drift build up	
to performing these repairs.	, State Drivge	cabinets, telephone with I	long distance access, electric lig	hts, power outlets, shelves	drift shall be absorbed.	Tareg with the removal of	
Certified Welding Inspector (CWI) of	n each work shift	and tables. The office sh	hall be provided with adequate he	eating, ventilation and air			
nilicant work is performed. r acceptance shall precede quality o	assurance	conditioning. The office si with running water. The c	hall have access to convenient s office shall be in good renair. Ic	sanıtary Tacılıtıes ocated where there is	<u>REMOVAL OF WORK PLATFORN</u>	<u>1 NOTE:</u>	
shop inspection records shall be m	ade available	not excessive noise and	shall be used for MDOT shop in	nspection personnel only.	Upon completion of work, the riprap work	platform shall be removed	
or.		Convenient and adequate	parking shall be provided. The F	abricator shall provide	and/or regraded to the slope(s) indica. FR-0063-04(006) plans Any excess i	ted in the Project No. riprap following removal of the	
or nonstandard weld geometries sna ecific inspection procedures that inc	ni require The clude techniques	machine. Changes in office	e location or facilities shall be	rax macnine and a copy made only upon	work platform is to be hauled to and	stockpiled at a location	
These inspection procedures shall b	e submitted to	approval of the Director	Of Structures, State Bridge Ei	ngineer.	designated by the Engineer within two	(2) miles of the project. The	
s, State Bridge Engineer for approve as shall be performed by placing the	al. • film on the flat	For the plate girder component that conforms to the red	nents designated as ASIM AIU nuirement of ASTM A709 Gr. 5	19, Gr. 50W, provide steel 50WT Impact testing for all	cusi associated with the removal, regrading, nauling, and stockpiling are to be absorbed in the pay item 815-A007 Loose Riprap.		
		plate girder components s	shall meet the requirements of 2	Zone for fracture	Size 300.	, , , ,	
be placed on the base metal adjace	ent to the weld	critical, T, material.	hall ha alassad is secondared with	:the Santian RIA of the	CONTRACTOR FIFLO VERIFICAT	FINN & SHOP DRAWING	
n radiographic i'im in the area of it Fabricator shall have shop drawings	nieresi. . welding	Standard Specifications.	nall de cleaned in accordance wi	IIN SECTION OT4 OF THE	SURMITTAL NOTES.	TUN & SHUF DRAVIIVO	
or storage and handling of welding e	plectrodes,				I. Prior to Sabrication and construction	n. the Contractor shall field	
recovery procedure (if applicable) ti Of Structures State Bridge Enginee	hat have been	<u>CONSTRUCTION_FIELD</u>	D WELDING NOTES:		verify the dimensions of the existing	g structure. The Contractor	
ication conference has been held and	d the facilities	All field welding shall be doi	ne by the electric arc process	and shall conform to	shall be responsible for adjusting th	e elements of the new	
pproved by the Director Of Structu	ires, State Bridge	AASHTO Guide Specificati	ion for Highway Bridge Fabricatic	on with high	2. Prior to Sabrication and construction	n, the Contractor shall submit	
meeting shall be held at each labri irected by the Director Of Structu	ication ires. State Bridge	performance steel. A Cer	tified Welding Inspector shall be	present for all	verification of the existing bridge en	ements associated with pay	
		field welding. All field welding shall be per	rformed by certified welders wit	th approved electrodes	items nos. 803-K008 Drilled Shalt, Permanent Casina, 60" Diameter, an	60 Diameter, 803-0009 d 810-A007 Structural Steel	
cicator and/or Subcontractor shall s	ubmit their NDE	and supplies specific to v	weathering steel ASTM A709, G	Fr. 50W. Certification	A 709, Grade 50W to the Director	r of Structures, State	
nclude a written practice, a method	' procedure for	for all welders and a pro	ncedure for storage and handling	of electrodes and	Bridge Engineer for approval.		
d personnel certifications.	· 	Structures, State Bridge	Engineer through the project en	ngineer for approval			
guire at least two weeks advance no tate Bridge Engineer prior to restar	rting work for	prior to construction.				— Gans shall be reduced	
ctors.		All field welds shall be inspe to ASTM A 709 Gr. 50W	ected by a Certified Welding Ins ' welding prior to acceptance by	spector (CWI) specific MDOT. Any field weld		to 0.005" or less &	
diameter high strength bolts per AS	STM F3125, s shall be placed	found not to be in conform	nance by the CWI shall be redoi	ne and any material		measured with a leeler gauge.	
ed from the weather, where feasible	e. See SPECIAL	damaged beyond repair shal	ll be replaced at the Contractor	's expense.			
WASHERS AND DIRECT TENSION	INDICA TORS	NERDIS DENANIAI NI	TE.				
pe ligniened to provide, when all bo minimum tension as follows:	olis in ine	Ear the duration of the pro	<u>IL:</u> liact care shall be exercised to	a posura that po			
Lbs.		debris fall into the hydraul	lic crossing below the structure.	The debris that			
Lbs.		is removed from the bridge	shall become the property of i	the Contractor			
Lbs.					Hardened washer	Tension indicator under head. Turn put to tichton	
shers and direct tension indicators s	shall be	DESIGN DATA				runn nur ro righten.	
al. Each container shall be permaner	ntly marked	Specifications	A.A.S.H.T.O. 20	002			
v lot number such that identification	n will be	Loading			DIRECT TENSION INDICATOR IN	<u>VSTALLATION</u>	
r to installation. They shall be stor approved by the Engineer The cont.	red out of ainer shall	Site Class					
contents are needed for erection.		Operational Class	Other				
A for testing to be performed by MDOT. Fastener		Concrete Drilled Shaft Concrete	Class AA (40 Class "DS" (40	100 psil 100 psil	<u>SPECIAL NOTES ON BOLTS,</u>	<u>NUTS, WASHERS</u>	
as sampled after samples are ob pector once samples are approved b	y MDOT.	Permanent Steel Casing	ASTM A252, Gr	rade ['] 2 (Fy = 35 ksi)	<u>AND DIRECT TENSION I</u>	<u>'NDICATORS:</u>	
		Structural Steel	ASTM A709, Gr	rade 50W (Fγ = 50 ksi)		4 (ASTIA 1225 C. 1225	
				r.	Type 3. Maximum hardness for high strengt	th bolts shall be 33	
LEVATION SCHEDULE		<u>SPECIAL PROVISIONS</u>	<u>REOUIRED</u>		Rockwell C (RC). Nuts for high strength holts shall be beaux hi	ex and meet the requirements	
Diameter Estimated Length Mil	inimum Flevation	Maturity Meters In Drilled .	Shafts Eag Daillad Shafta	No. 907-803	of ASTM A563, Grade DH3.		
	12.0	Sell-Consolidating Concrete	For Drilled Sharts		Tardened steel washers shall meet the require Type 3.	oments of ASTM F436,	
60 100 1 60 100	7.7			L	Direct tension indicators shall meet the requir Type 325-3	ements of ASTM F959,	
				, A	High strength bolts, nuts, or direct tension in	dicators shall not be reused	
				Λ	arrer rigniening. Mill test reports, certified test reports, and	certificates of compliance are	
	ESTIMATED BRIL	DGE OUANTITIES			required for high strength bolts, nuts, hard	ened washers and direct	
PAY ITEM CODE	DESCRI	PTION	OUANTITIES UNIT				
202-B036	Removal of B	Bridge Piling	14 Each	Г	υ .		
803-K008	NIODIIIZE Drillad Shaft 4	50" Diameter	1 L3 400 IF	Ļ	MISSISSIPPI DEPARTME	NT OF TRANSPORTATION	
803-M007	Trial Shaft, 60	0" Diameter	115 LF		Image: Second se	IA. 214+80.00	
803-N001	Explore	ation	40 LF				
803-0009	Permanent Casing,	60" Diameter	280 LF			HICKASAWHAY RIVER	
803-0025	Temporary Casing,	78" Diameter	76 LF			<u> </u>	
804-AUU/ 805-1001	Bridge Concrete,	<i>Llass AA</i>	41.50 CY	S CED PROFESSION		/302000	
810-4007	Structural Steel A	emeni 709 Grade 50W	1,017 LDS	S ENGINEER	FR-006	3-04(010)	
815-A007	Loose Riprap.	Size 300 *	7,700 TON	Kuron Cample		WORKING NUMBER	
				2/001 Q		CUUNIY of 16	
* Estimated quantity bent nos_3 and a	r snown is based on an A and does not include	assumed 6,600 square foot we riprap required for access to	ork plattorm at work platform.	MUDDI-	DESIGNER <u>Amanda Blankenship</u> CHECKER DETAILER <u>Amanda Blankenship</u> ISSUE DA	Preston Campbell SHEET NUMBER	
		, , , , ,	· · · · · · · · · · · · · · · · · · ·	DATE: 06/12/19	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEE DEP. DIR. OF STRUCTURES, ASSIST. STATE BRIDGE ENGINE	? - JUSTIN WALKER PE. 8002 ER - SCOTT WESTERFIELD PE.	
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