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.	**1**	DATED	**10/17/2019**	ADDENDUM NO.		DATED	
ADDENDUM NO		DATED		ADDENDUM NO.		DATED	
ADDENDUM NO		DATED		ADDENDUM NO.		DATED	

Number	Description
1	Revised Table of Contents; Added NTB No. 1844; Revised or Added Plan Sheet Nos. 8001-8002, 8004, 8052, 8059, 8209, & 8240; 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-9385-00(017)/ 107705301000
Jackson County(ies)

Revised 01/26/2016

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
TABLE OF CONTENTS

PROJECT: BR-9385-00(017)/107705301 - Jackson

PROJECT: BR-9385-00(017)/107705301 - Jackson

Section 905 - Proposal, Proposal Bid Items, Combination Bid Proposal
Certification of Performance - Prior Federal-Aid Contracts
Certification Regarding Non-Collusion, Debarment and Suspension
SAM.GOV Registration and DUNS Number
Section 902 - Contract Form
Section 903 - Contract Bond Forms
Form -- OCR-485

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

10/17/2019 01:22 PM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1844 **CODE: (SP)**

DATE: 10/17/2019

SUBJECT: Additional Requirements for Electrical Construction for Movable Bridges

PROJECT: BR-9385-00(017) / 107705301 -- Jackson County

Bidders are advised of the following requirements for the CCTV System on this project. Should information shown in the plans conflict with this Notice to Bidders, this Notice to Bidders shall supersede.

Description

Furnish and install a complete CCTV system for the bridge to monitor the approach traffic, channel, and Control House. Furnish and install cameras mounted and oriented to show the views as shown in the plans, a control panel in the Control House equipped with two flat screen color monitors, computer with monitor, a code distribution transmitter, a digital video recorder combination multiplexer unit, Ethernet transmitter for each camera, and a pan tilt zoom keyboard to control all cameras.

Camera

Each camera shall be equipped with dome housing, lens, and power supply. Each camera shall be Power- equipped with Pan-Tilt-Zoom (PTZ) controls operable from the Control House panel. The camera shall be complete with zoom lens, solid state CCD image device, power supply, and outdoor camera housing with environmental controls. The camera with housing and any optional equipment required shall be suitable for mounting in locations as indicated on the plans.

The camera shall be a:

- Zoom: 35X (minimum)
- Type: Day/Night

The camera shall be equipped with pan, tilt, zoom capability using remote control from the CCTV Work Station. The communication shall be Ethernet. The camera housing shall be a pressurized back box and lower dome. The dome shall be diffused and meet NEMA Type 6P standards. The back box shall be stainless steel and equipped with a sun shroud, heater, and fan to maintain a constant operating environment. The back box shall be pre-wired for all equipment.

Mounting Brackets

The camera mounting brackets shall be constructed of aluminum suitable for supporting the camera and its housing. Each camera shall be furnished and installed with a mounting bracket equipped with an access plate. It shall have an adjustable mounting bracket capable of supporting a 75-pound load. To prevent electrolytic action and corrosion due to the making of

dissimilar metals, a 1/8-inch thick neoprene gasket shall be furnished and installed between all dissimilar metals.

CCTV Panel

Furnish and install one work station panel made from 11-gauge sheet steel properly formed and reinforced to provide adequate strength. Mount the pan-tilt-zoom control keyboard on the station desk to provide all controls to operate the cameras and select the camera displays on the monitors.

Provide a door switch operated lamp rated to completely illuminate the panel interior.

Provide a permanent location in the CCTV Panel for the computer and sufficient cabling to allow slide in/slide out for the computer to be brought out of the work station to use. The cables shall have a storage device to neatly store the excess lengths cables while not in use.

Provide specification grade duplex receptacles as required for the monitor, computer, receivers, and multiplexer. All receptacles shall be 20-ampere, 125-volt, three-wire, grounding type, polarized, ground fault current interrupting (GFCI) duplex convenience outlets. Each indoor receptacle shall be flush mounted in existing outlet box and shall be provided with a Type 304 stainless steel cover plate.

Cables

The video transmission wiring to the cameras shall be CAT6 Ethernet cables.

Video Transmitter and Receivers

Furnish and install in the CCTV Panel a rack with communication network cards that provide bi-directional data. There shall be one communication card per camera. The communication network card shall transmit the broadcast quality video transmission camera signal from each camera to the work station and transmit the pan, tilt, zoom commands from the work station to each individual camera. The Control System integrator shall coordinate the selection of Ethernet cables and the network card requirements.

Furnish and install in each dome housing a communication network card. The card shall plug directly into the dome housing and be compatible with the network card rack mounted in the CCTV Work Station.

Monitors

Ceiling-mount two 23" flat screen monitors adjacent to the control desk. The monitors shall be designed for 24/7 operation. Coordinate mounting location with MDOT to not impede view and allow for bridge operation.

Computer and Software

Furnish and install all required digital video management system software required for the CCTV system on the new desktop computer. Coordinate the software requirements with the computer to ensure the correct operating system and memory is provided to properly operate the software.

The computer shall be dedicated to the CCTV system and be mounted in the CCTV Work Station.

The computer software shall be a graphical user interface that allows the user to monitor and manage any combination of analog and internet protocol (IP) devices through digital surveillance software. The software shall use tabs to easily switch between work spaces and live or recorded images. The software will provide a tab to manage critical data and allow the data to be accessed from multiple locations with safety password control. The software shall display the alarms and status from the individual cameras. The software shall be able to support multiple monitors, allowing each monitor to display independent camera feeds or multiple feeds on a single screen.

Provide laptop computer with specified software, suitable for programming the CCTV systems. The computer shall be the latest commercially available unit and be IBM compatible.

CCTV Testing

Tests shall be performed by the Contractor in the presence of the Engineer. The Contractor shall provide all test equipment and other devices necessary for such tests. The following tests shall be performed to demonstrate compliance with the Plans and specifications. Proposed test procedures shall be submitted to the Engineer for approval 14 calendar days prior to testing. All tests shall be documented, signed and submitted to the Engineer.

Each camera shall have the resolution, contrast and sensitivity tested to monitor path using the CCTV monitor in the control room.

Each camera shall be verified that it is properly adjusted for tilt, pan, & zoom remote control. Each monitor shall be tested to verify that it can provide quad view and single camera view, and each monitor must be capable of providing independent cameras. The cameras shall be adjusted to the Engineer's approval.

The Contactor shall demonstrate that all software has been provided. The Contractor shall demonstrate that all passwords and command codes have been provided to allow the client to fully operate and configure the system as required.

Spare Parts

The Contractor shall furnish one (1) spare CCTV camera assembly for each type provided.

Payment

All work required to furnish and install a complete, operational CCTV System shall be included in the price bid for pay item 907-852-A001 – Electrical Work, Lump Sum.

All training, manuals, and spare parts shall be included in the price bid for pay item 907-852-K001 – Training, Manuals, and Spare Parts, Lump Sum.

ADDENDUM

STATE	PROJECT NO.
MISS.	BR-9385-00(017)

DESCRIPTION OF SHEET	WORKING NO.	SHEET NO.
BRIDGE DESIGN DRAWINGS		
DETAILED INDEX BRIDGE 1	DI-BR-1	8001
DETAILED INDEX BRIDGE 2	DI-BR-2	8002
GENERAL NOTES 1	GN-BR-1	8003
GENERAL NOTES 2	GN-BR-2	8004
GENERAL PLAN AND ELEVATION 1	S-01	8005
GENERAL PLAN AND ELEVATION 2	S-02	8006
APPROACH TYPICAL SECTION	S-03	8007
UNDERSIDE OF DECK PLAN & BEARING LAYOUT 1	S-04	8008
UNDERSIDE OF DECK PLAN & BEARING LAYOUT 2	S-05	8009
UNDERSIDE OF DECK PLAN & BEARING LAYOUT 3	S-06	8010
CONCRETE REPAIR LOCATIONS	S-07	8011
COMPRESSION SEAL JOINT LAYOUT DETAILS	S-08	8012
ELASTOMER OR WABOTRANS FLEX JOINT LAYOUT DETAILS	S-09	8013
CONCRETE REPAIR DETAILS 1	S-10	8014
CONCRETE REPAIR DETAILS 2	S-11	8015
BEAM REPAIR DETAILS	S-12	8016
TRAFFIC GATE PLATFORM 1	S-13	8017
TRAFFIC GATE PLATFORM 2	S-14	8018
PEDESTRIAN RAILING IMPROVEMENT DETAILS	S-15	8019
ADA RAMP IMPROVEMENT DETAILS	S-16	8020
SOUTH BASCULE PIER ELEVATIONS 1	S-17	8021
SOUTH BASCULE PIER ELEVATIONS 2	S-18	8022
SOUTH BASCULE PIER ELEVATIONS 3	S-19	8023
SOUTH BASCULE PIER ROADWAY LEVEL PLAN	S-20	8024
SOUTH BASCULE PIER MACHINERY LEVEL PLAN	S-21	8025
SOUTH BASCULE PIER PIT LEVEL PLAN	S-22	8026
SOUTH BASCULE PIER TRANSVERSE SECTION	S-23	8027
SOUTH BASCULE PIER LONGITUDINAL SECTION	S-24	8028
SOUTH BASCULE PIER DETAILS 1	S-25	8029
BASCULE PIER DETAILS 2	S-26	8030
CONTROL HOUSE EXISTING AND NEW ELEVATIONS	S-27	8031
CONTROL HOUSE PLANS	S-28	8032
CONTROL HOUSE DETAILS 1	S-29	8033
CONTROL HOUSE DETAILS 2	S-30	8034
CONTROL HOUSE DETAILS 3	S-31	8035
CONTROL HOUSE DETAILS 4	S-32	8036
CONTROL HOUSE DETAILS 5	S-33	8037
CONTROL HOUSE HVAC AND PLUMBING	S-34	8038
FENDER SYSTEM DETAILS	S-35	8039
NEW FENDER WALKWAY	S-36	8040
FENDER ACCESS STAIRWAY DETAILS 1	S-37	8041
FENDER ACCESS STAIRWAY DETAILS 2	S-38	8042
FENDER ACCESS STAIRWAY DETAILS 3	S-39	8043
FENDER ACCESS STAIRWAY DETAILS 4	S-40	8044
FENDER ACCESS STAIRWAY DETAILS 5	S-41	8045

DESCRIPTION OF SHEET	WORKING NO.	SHEET NO.
BRIDGE DESIGN DRAWINGS		
BASCULE SPAN FRAMING PLAN	S-42	8046
BASCULE SPAN SECTIONS	S-43	8047
BASCULE SPAN BRACKET DETAILS 1	S-44	8048
BASCULE SPAN BRACKET DETAILS 2	S-45	8049
BASCULE SPAN LATERAL BRACING PLAN	S-46	8050
BASCULE SPAN LATERAL BRACING DETAILS	S-47	8051
BASCULE SPAN DECK PLAN	S-48	8052
BASCULE SPAN DECK GRATING DETAILS	S-49	8053
SPAN LOCK HOUSING DETAILS 1	S-50	8054
SPAN LOCK HOUSING DETAILS 2	S-51	8055
SPAN LOCK HOUSING DETAILS 3	S-52	8056
BASCULE SPAN BALANCE 1	S-53	8057
BASCULE SPAN BALANCE 2	S-54	8058
BRIDGE REPAIR ITEMS	S-55	8059

PS & E PLANS - DATE: 5-7-19

FMS # 107705/101000

REVISIONS

DATE	SHEET NO.	BY
8/21/19	8003	IF
10/16/19	8052, 8059	TN
10/16/19	8004	AB

TIMOTHY JOHNSON NOLES LICENSED PROFESSIONAL ENGINEER 21191 STATE OF MISSISSIPPI

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX BRIDGE 1

FMS: 107705 / 301000

COUNTY: JACKSON

PROJECT NUMBER: BR-9385-00(017)

DESIGNER R. SANCHEZ CHECKER C. GRANADOS

DETAILER T. BARTHLE ISSUE DATE 03/15/2019

DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.

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

WORKING NUMBER DI-BR-1

SHEET NUMBER 8001

PLAN
BRIDGE DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

001.00.AMPM.DGNFILENAME

ADDENDUM

STATE	PROJECT NO.
MISS.	BR-9385-00(017)

DESCRIPTION OF SHEET	WORKING NO.	SHEET NO.
MECHANICAL DRAWINGS		
MECHANICAL NOTES	M-01	8101
MACHINERY LAYOUT	M-02	8102
SPAN DRIVE MACHINERY PLAN	M-03	8103
SPAN DRIVE MACHINERY ELEVATION	M-04	8104
SPAN DRIVE MACHINERY TABLES	M-05	8105
RACK ASSEMBLY REPAIRS	M-06	8106
PINION SHAFT AND FLOATING SHAFT DETAILS	M-07	8107
SPAN DRIVE MACHINERY SUPPORT DETAILS 1	M-08	8108
SPAN DRIVE MACHINERY SUPPORT DETAILS 2	M-09	8109
TEMPORARY HYDRAULIC DRIVE ASSEMBLY ELEVATION	M-10	8110
TEMPORARY HYDRAULIC DRIVE ASSEMBLY PLAN	M-11	8111
TRUNNION ASSEMBLY REPAIRS	M-12	8112
TRUNNION ASSEMBLY REPAIR DETAILS	M-13	8113
FORWARD LIVE LOAD SHOE ASSEMBLY REPAIRS	M-14	8114
NEW SPAN LOCK ASSEMBLY	M-15	8115
SPAN LOCK ASSEMBLY DETAILS 1	M-16	8116
SPAN LOCK ASSEMBLY DETAILS 2	M-17	8117
SPAN LOCK ASSEMBLY DETAILS 3	M-18	8118
SPAN LOCK ASSEMBLY DETAILS 4	M-19	8119

DESCRIPTION OF SHEET	WORKING NO.	SHEET NO.
ELECTRICAL DRAWINGS		
GENERAL ELECTRICAL NOTES AND SCOPE OF ELECTRICAL WORK	E-01	8201
GENERAL ELECTRICAL PLAN AND ELEVATION	E-02	8202
ELECTRICAL ABBREVIATIONS	E-03	8203
ELECTRICAL LEGEND	E-04	8204
ONE-LINE DIAGRAM 1	E-05	8205
ONE-LINE DIAGRAM 2	E-06	8206
LIGHTING PANEL SCHEDULE	E-07	8207
LIGHTING CIRCUITS	E-08	8208
CONTROL HOUSE EQUIPMENT LAYOUT	E-09	8209
CONTROL HOUSE REFLECTED CEILING PLANS	E-10	8210
BASCULE PIER EQUIPMENT LAYOUT	E-11	8211
BASCULE PIER REFLECTED CEILING PLANS	E-12	8212
CONTROL CONSOLE LAYOUT	E-13	8213
CONTROL CONSOLE DETAILS	E-14	8214
MOTOR CONTROL CENTER LAYOUT	E-15	8215
CONTROL PANEL LAYOUT	E-16	8216
TYPICAL CONTROL OPERATOR DEVICES	E-17	8217
OPERATION SEQUENCE	E-18	8218

DESCRIPTION OF SHEET	WORKING NO.	SHEET NO.
ELECTRICAL DRAWINGS		
CONTROL CIRCUIT 1	E-19	8219
CONTROL CIRCUIT 2	E-20	8220
CONTROL CIRCUIT 3	E-21	8221
CONTROL CIRCUIT 4	E-22	8222
CONTROL CIRCUIT 5	E-23	8223
CONTROL CIRCUIT 6	E-24	8224
CONTROL CIRCUIT 7	E-25	8225
CONTROL CIRCUIT 8	E-26	8226
CONTROL CIRCUIT 9	E-27	8227
CONTROL CIRCUIT 10	E-28	8228
CONTROL CIRCUIT 11	E-29	8229
CONTROL CIRCUIT 12	E-30	8230
CONTROL CIRCUIT 13	E-31	8231
CONTROL CIRCUIT 14	E-32	8232
TRAFFIC CONTROL DEVICE DETAILS	E-33	8233
PA/INTERCOM SYSTEM DETAILS	E-34	8234
SUBMARINE CONDUIT SYSTEM DETAILS	E-35	8235
MISCELLANEOUS ELECTRICAL DETAILS	E-36	8236
CONDUIT RISER DIAGRAM 1	E-37	8237
CONDUIT RISER DIAGRAM 2	E-38	8238
CONDUIT AND CONDUCTOR SCHEDULE	E-39	8239
CCTV DIAGRAM	E-40	8240
LIGHTNING PROTECTION DETAILS	E-41	8241
LIMIT SWITCH DETAILS	E-42	8242

PS & E PLANS - DATE: 5-7-2019		
FMS # 107705/101000		
REVISIONS		
DATE	SHEET NO.	BY
8/13/19	8220, 8226, 8227	AB
10/16/19	8209, 8240	AB

JASON P. BARTHLE — REGISTERED PROFESSIONAL ENGINEER — 29633 — STATE OF MISSISSIPPI

AMAKA AMALU ANDERSON — LICENSED PROFESSIONAL ENGINEER — 29524 — STATE OF MISSISSIPPI

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX BRIDGE 2

FMS: 107705 / 301000

COUNTY: JACKSON

PROJECT NUMBER: BR-9385-00(017)

WORKING NUMBER: DI-BR-2

SHEET NUMBER: 8002

REVISION | BY | DATE

DESIGNER R. SANCHEZ — CHECKER C. GRANADOS

DETAILER T. BARTHLE — ISSUE DATE 05/07/19

DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.

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

PLAN
BRIDGE DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

001:00AMPM DGNFILENAME

ADDENDUM

STATE	PROJECT NO.
MISS.	BR-9385-00(017)

PAINTING NOTES

1. GENERAL:
   A. Clean And Paint All Structural Steel, Live Load Shoes And Bearings And Approach Span Bearings. Clean All Existing Safety Railings, Machinery And Auxiliary Equipment Including, Miscellaneous Decking, Plates, Bar Stock, Angle Iron, And Structural Steel Inside The Bascule Pier.
   B. Clean And Paint The Top Surfaces Of Stringers, Floor Beams, Diaphragms Made Accessible By Removal Of Deck Grating Prior To Installation Of New Grating. One (1) Coat Of Aluminum Epoxy Mastic Maintenance Painting System Shall Be Used At These Locations.
   C. The Existing Structural Steel Coatings Require Removal By Abrasive Blast Cleaning And Replacement With A New Three Coat Protective Coating System. Replacement Structural Steel Will Be Prepared And Prime Coated In The Shop And Receive The Intermediate And Finish Coats Following Erection.
   D. The Machinery Located In The Bascule Pier Requires Solvent Cleaning, Hand Or Power Tool Cleaning Followed By Spot Primer Application And Finish Coat Application. This Includes, But Is Not Limited To Racks, Gears, Trunnions, Motors, Shafts, Etc.
   E. Protect All Machinery, Platform Components (Hydraulic, Mechanical And Electric) From Abrasives, Water And Coating Overspray During Cleaning And Painting.
   F. Single Lane Closures May Be Used For Painting Bascule Span Structural Steel. See Traffic Control Plans For Requirements. See Note 11 On Previous Sheet For Navigation Channel Restrictions.
   G. Utilize A Containment System. To Be Submitted For Approval By The Project Engineer.

2. MATERIALS:
   A. Steel Grit Abrasive Shall Not Be Used For Blast Cleaning In The Bascule Pier.
   B. The Coating Materials For Machinery Located In The Bascule Pier Shall Include:
      a. Spot Coat Of Aluminum Epoxy Mastic To All Surfaces With Rust Or Exposed Substrate.
      b. Finish Coat Of Aliphatic Polyurethane, Colored To Match Existing.

3. FINISH COAT COLOR:
   Submit Color Coupons (3 Each) Of Finish Coat For Structural Steel To The Engineer Prior To Beginning The Painting Operations. The Finish Paint Color Pigment Shall be Submitted for Approval. Final Acceptance Of Colors Shall Be Determined By The Engineer.

4. HAZARDOUS MATERIALS:
   The Bridge On The Project Has Tested Positive For Metals In The Existing Paint Coating System. Toxic Characteristic Leaching Procedure (TCLP) Test Results Indicate That The Metals Are At Hazardous Concentrations. The Contractor Shall Conform To All Federal, State And Local Regulations When Working With Lead Based Paint.

SPECIFIC SCOPE OF WORK :

BASCULE SPAN:
1. Clean And Paint All Structural Steel.
2. Replace All High Strength Connection Bolts Exhibiting Corrosion With Mechanically Galvanized High Strength Bolts (A325).
3. Identify And Repair Cracks In Structural Steel.
4. Remove And Replace Roadway Grating With Galvanized Steel Roadway Grating. Furnish And Install Bicycle Friendly Grating In Shoulders.
5. Remove And Replace Sidewalk Grating With Aluminum Floor Plate With Slip Resistant Surface.
6. Remove And Replace Lateral Bracing To Bottom Flange Of Floorbeams.
7. Clean Out Counterweight Pockets, And Rebalance Bascule Leaves.
8. Clean And Seal Concrete Counterweight.
9. Jack Span For Trunnion Refurbishment.

APPROACH SPANS:
1. Repair Crack And Spall At Girder 7 Bent 12.
2. Repair Spalls In Bottom Flange Of Girders.
3. Repair Bearing Anchor Bolts.
4. Paint Bearing/Masonry Plates.
5. Remove And Replace Bridge Rail Anchor Bolt Nuts With Stainless Steel Nuts.
6. Furnish And Install Stainless Steel Wire Between Rails.
7. Furnish And Install Approach Guardrail Section Where Missing On North Side Of The Bridge.
8. Remove And Replace Strip Seal Joint Material.
9. Construct Sidewalk Handicap Ramp At South Approach At Control House.

BASCULE PIER:
1. Remove And Replace Bumper Block Assembly.
2. Install Pigeon Proofing In Bascule Pier.
3. Repair Miscellaneous Concrete Spalls And Cracks.
4. Repair/Replace Safety Railings, Access Ladders, Platforms And Walkways.
5. Furnish And Install Ventilation Fans.
6. Furnish And Install Hose Bibb On Machinery Level.

FENDER SYSTEM:
1. Remove And Replace Corroded Dolphin Cable Wraps With Stainless Steel Wire Rope.
2. Remove Timber Walkway Decking And Replace With Recycled Plastic Decking.
3. Furnish And Install Safety Railing On Fender Walkway.

CONTROL HOUSE:
1. Remove And Replace Doors And Windows With Wind Resistant Type.
2. Remove And Replace HVAC System.
3. Furnish And Install New Plumbing System.
4. Remove And Replace Roof.
5. Furnish And Install Fire, Security And Carbon Monoxide Detection System.
6. Repair Generator Room Metal Wall.
7. Furnish And Install Steel Platform Outside Of Generator Room Doors.
8. Rehabilitate Restroom.
9. Furnish And Install Keyless Entry System.
10. Furnish And Install Refrigerator And Microwave In Control House.
11. Paint Control House Exterior Walls. MDOT Will Select Color.
12. Furnish And Install New Platform And Stairs To Access Fender.
13. Furnish And Install New CCTV System. △

MECHANICAL:
1. Furnish And Install New Span Drive Machinery Except Racks. Existing Racks Are To Remain.
2. Furnish And Install New H.S. Turned Bolts For Rack/Rack Frame Connection And Rack/Girder Flange Connection.
3. Furnish And Install Temporary Hydraulic Operating Machinery.
4. Furnish And Install New H.S. Turned Bolts For Trunnion Hub/Main Girder Web Connection. Check And Align Trunnion Shafts As Necessary. Jack Each Leaf And Field Machine Trumnion Journals. Furnish And Install New Trunnion Bearing Bushings. Machine Existing Trunnions Bearing Base For New Bushings.
5. Shim And Grout Live Load Shoe Assemblies.
6. Furnish And Install New Span Lock Machinery.
7. Provide Training, Operation and Maintenance Manuals, and Spare Parts.

ELECTRICAL:
1. Remove And Replace Power Distribution System.
2. Remove And Replace Bridge Control System.
3. Remove And Replace Traffic Control System.
4. Remove And Replace All Navigation Lighting System.
5. Provide Training, Operation and Maintenance Manuals, and Spare Parts.

PHASING NOTES WITH SUGGESTED
TRAFFIC CONTROL SCHEME :

Preliminary Work (Single Lane Closure Allowed For Material Delivery)
1. Install Jacking Column Connections.
2. Locate Trunnion To Machinery Tolerance.
3. Install Temporary Electrical System.
4. Install Temporary Hydraulic System (Alternative To Single Leaf Operation).
5. Install New Submarine Cable.

Phase 1A (South Leaf - Trunnion Machining)
Single Leaf Operation - Navigation Uses North Half Of Channel, SR 609 Closed To Vehicular Traffic.
1. Disconnect South Leaf Machinery.
2. Raise South Leaf With Temporary Jack System.
3. Remove Trunnion Bearings And Transport To Rebore.
4. Machine South Leaf Trunnions.
5. Install New Electrical System.
6. Install Trunnion Bearings.
7. Lower South Leaf Onto Trunnion Bearings.

Phase 1B (North Leaf - Trunnion Machining)
Single Leaf Operation - Navigation Uses South Half Of Channel, SR 609 Closed To Vehicular Traffic.
1. Disconnect North Leaf Machinery.
2. Raise North Leaf With Temporary Jack System.
3. Remove Trunnion Bearings And Transport To Rebore.
4. Machine North Leaf Trunnions.
5. Complete Install Of New Electrical System.
6. Install Trunnion Bearings.
7. Lower North Leaf Onto Trunnion Bearings.

Phase 2A (South Leaf)
Single Leaf Operation - Navigation Uses North Half Of Channel, SR 609 Reduced To 1 Lane In Each Direction On The West Side Of Bridge.
1. Install Temporary Barrier On Movable Span.
2. Replace East Side of Bascule Span Grating.
3. Install New East Span Lock And Housing.
4. Clean And Paint East Side Of Bascule Span.
5. Adjust Counterweights.
6. Install New South Leaf Bracing.
7. Install New Span Lock Maintenance Inspection Platforms.

Phase 2B (North Leaf)
Single Leaf Operation - Navigation Uses North Half Of Channel, SR 609 Reduced To 1 Lane In Each Direction. On The East Side of Bridge.
1. Relocate Temporary Barrier On Movable Span.
2. Replace West Side of Bascule Span Grating.
3. Install New West Span Lock Receiver And Housing.
4. Remove Existing Span Locks.
5. Clean And Paint West Side of Bascule Span.
6. Install New North Leaf bracing.

PLAN
BRIDGE DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

001:00AMPM DGNFILENAME

△

BY	DATE	REVISION
AB	10/16/19	Added CCTV to Scope

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

BRIDGE AT STA. 8+74.03

GENERAL NOTES 2

FMS: 107705 / 301000

COUNTY: JACKSON

PROJECT NUMBER: BR-9385-00(017)

WORKING NUMBER
GN-BR-2

SHEET NUMBER
8004

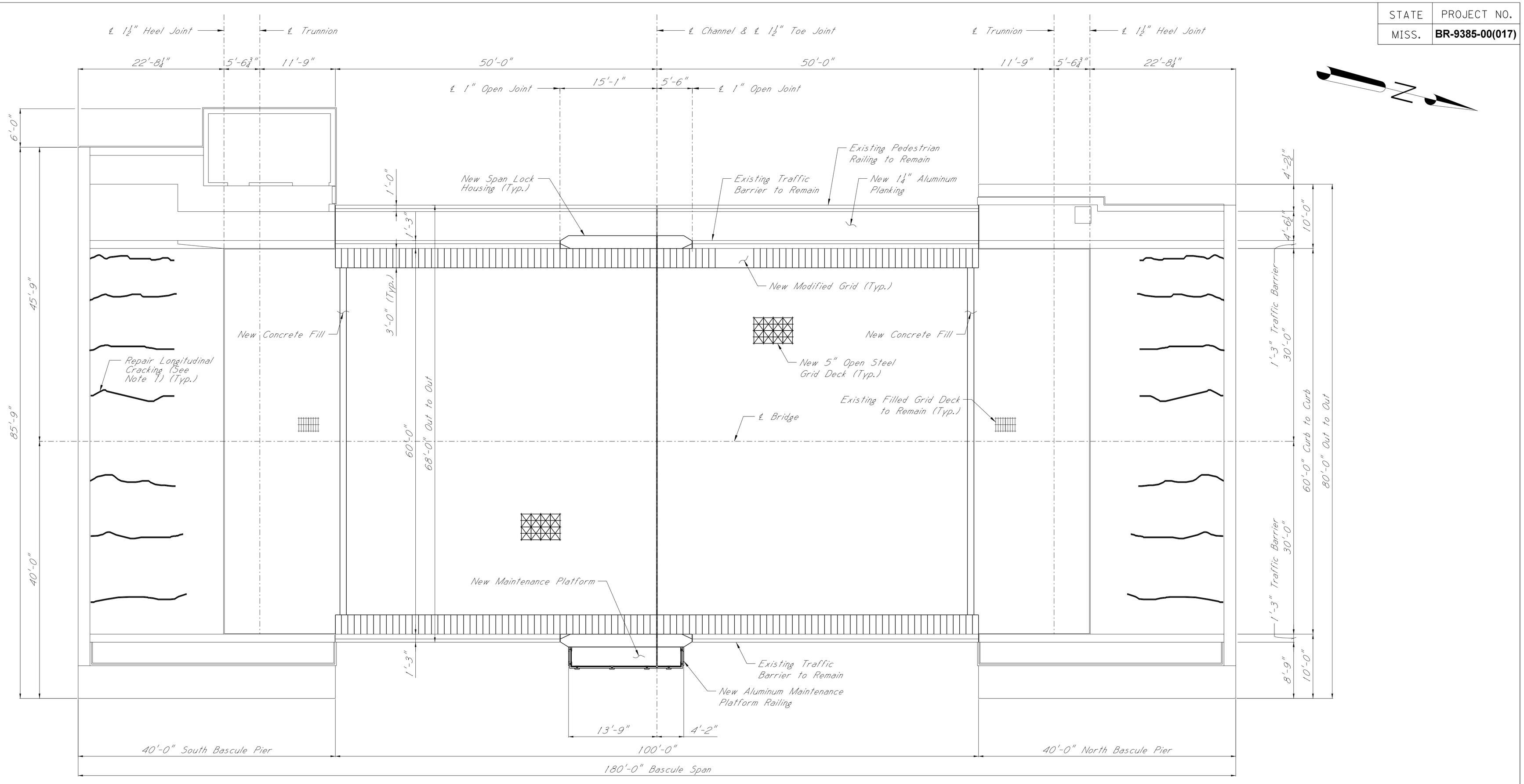
DESIGNER R. SANCHEZ
DETAILER T. BARTHLE
CHECKER C. GRANADOS
ISSUE DATE 00/00/0000

DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.

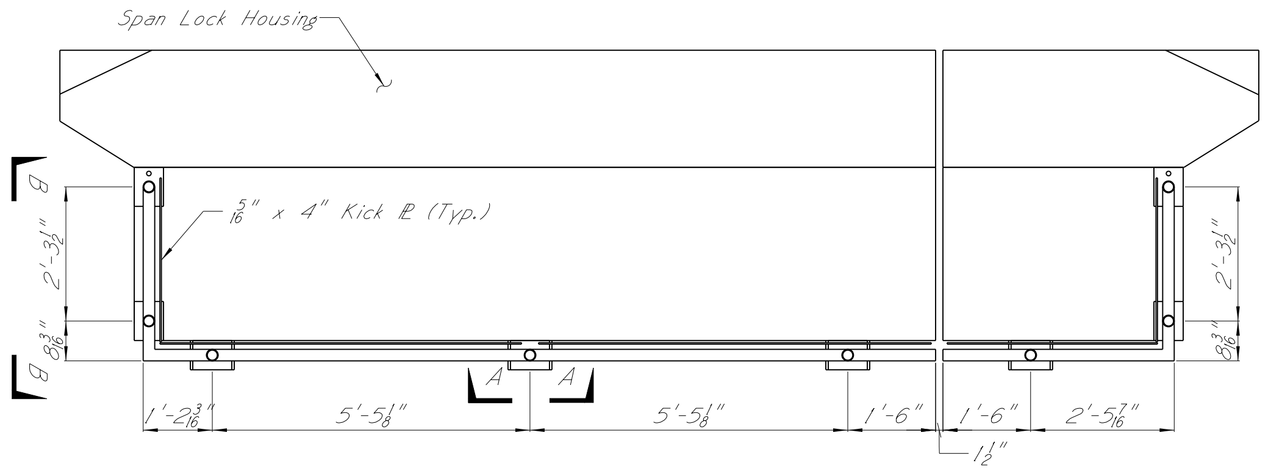
TIMOTHY JOHNSON NOLES
LICENSED PROFESSIONAL
ENGINEER
21191
STATE OF MISSISSIPPI

ADDENDUM

STATE	PROJECT NO.
MISS.	BR-9385-00(017)



BASCULE SPAN DECK PLAN



MACHINERY PLATFORM RAILING DETAIL

⚠ Aluminum Planking Notes:

1. Apply Mebac #1 (Or Equivalent) Aluminum Slip Resitant Coating To New Sidewalk Aluminum Plank And Hatch With A Minimum Coefficient Of Friction Of 1.0 Dry And 0.99 Wet Per Manufacturer Recommendations.

2. Provide ⅛" Resistance Between Aluminum Planking And Steel Support Angle (Typ.)

3. Snug Tighten Countersunk Bolts And Secure Nuts With Approved Anaerobyl Single-Component, Acrylic, Thread Locking Adhesive.

Note:

1. Map Cracking Shall Be Repaired With Penetrating Sealant From One Of The Following Manufactures:
   -Kwik Bond Ployniers
   -Pilgrim Permocoat Inc.
   -Simpson Strong-Tie

2. For sections A-A and B-B see sheet 8048.

T.N.	BY	REVISION	DATE
1		Added Aluminum Planking Notes	10/16/19

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

BRIDGE AT STA. 8+74.03

BASCULE SPAN DECK PLAN

FMS: 107705 / 301000

COUNTY: JACKSON

PROJECT NUMBER: BR-9385-00(017)

TIMOTHY JOHNSON NOLES LICENSED PROFESSIONAL ENGINEER 21191 STATE OF MISSISSIPPI

DESIGNER R. SANCHEZ CHECKER C. GRANADOS

DETAILER I. BARTHLE ISSUE DATE 03/15/2019

DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.

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

WORKING NUMBER S-48

SHEET NUMBER 8052

PLAN
BRIDGE DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

Ø01: Ø0ANPM DGNFILENAME

ADDENDUM

STATE	PROJECT NO.
MISS.	BR-9385-00(017)

1

BRIDGE REPAIR ITEMS				
DESCRIPTION	QUANTITY	UNIT	SHEET NUMBERS	PAY ITEM NO.
1¼" x 2'-4" ANCHOR BOLTS	28	EACH	8008	907-824-PP004 CONCRETE REPAIR
MAP CRACKING	646	SQ. FT.	8011	907-824-PP004 CONCRETE REPAIR
SPALL PATCH	N/A	N/A	N/A	907-824-PP004 CONCRETE REPAIR
SPALL REPAIR	N/A	N/A	N/A	907-824-PP004 CONCRETE REPAIR
ANCHOR TERMINAL SUPPORT PLATES	80	EACH	8019	907-824-PP004 FENDER SYSTEM AND ACCESS
CABLE ROPE	4862	L.F.	8019	907-824-PP004 FENDER SYSTEM AND ACCESS
TURN BUCKLE	80	EACH	8019	907-824-PP004 FENDER SYSTEM AND ACCESS
DOWEL CHAIRS	66	EACH	8020	907-824-PP004 CONCRETE REPAIR
NO. 3 DOWEL BARS	145.75	L.F.	8020	907-824-PP004 CONCRETE REPAIR
⅞" ADHESIVE ANCHOR BOLTS	19	EACH	8029	907-824-PP004 UTILITY PLATFORM
DOUBLE WALLED FUEL TANK	1	EACH	8029	907-824-PP004 UTILITY PLATFORM
A/C SYSTEM	1	EACH	8029	907-824-PP004 UTILITY PLATFORM
2.0" O.D. PIPE	4	EACH	8029	907-824-PP004 UTILITY PLATFORM
4" x 9" x ½" PLATE	8	EACH	8029	907-824-PP004 UTILITY PLATFORM
⅝" DIAMETER STAINLESS STEEL BOLTS	16	EACH	8029	907-824-PP004 UTILITY PLATFORM
⅞" DIAMETER STAINLESS STEEL BOLTS	24	EACH	8029	907-824-PP004 UTILITY PLATFORM
REMOVAL OF EXISTING SHIP LADDER	1	EACH	8030	907-824-PP004 REMOVE AND REPLACE CONTROL HOUSE LADDER
NEW SHIP LADDER	1	EACH	8030	907-824-PP004 REMOVE AND REPLACE CONTROL HOUSE LADDER
REMOVAL OF EXISTING BUMPER BLOCK	1	EACH	8030	907-824-PP004 REMOVE AND REPLACE BUMPER BLOCK
NEW NEOPRENE BUMPER BLOCK	4	EACH	8030	907-824-PP004 REMOVE AND REPLACE BUMPER BLOCK
1'-2" x 1'-2" x 0.5" PLATE	8	EACH	8030	907-824-PP004 REMOVE AND REPLACE BUMPER BLOCK
⅞" BOLT	16	EACH	8030	907-824-PP004 REMOVE AND REPLACE BUMPER BLOCK
1" S.S. ANCHOR BOLT	16	EACH	8030	907-824-PP004 REMOVE AND REPLACE BUMPER BLOCK
REMOVAL OF EXISTING WARNING GATE PLATFORMS	4	EACH	8017, 8018	907-824-PP004 REMOVE AND REPLACE WARNING GATES
NEW WARNING GATE PLATFORMS	4	EACH	8017, 8018	907-824-PP004 REMOVE AND REPLACE WARNING GATES
NO. 4 DOWEL BARS	220	L.F.	8017, 8018	907-824-PP004 REMOVE AND REPLACE WARNING GATES
NO. 6 DOWEL BARS	400	L.F.	8017, 8018	907-824-PP004 REMOVE AND REPLACE WARNING GATES

1

BRIDGE REPAIR ITEMS				
DESCRIPTION	QUANTITY	UNIT	SHEET NUMBERS	PAY ITEM NO.
ALUMINUM COVER PLATES	2	EACH	8018, 8019	907-824-PP004 FENDER SYSTEM & ACCESS
BIRD PROOFING - SPIKES	500	L.F.	8021 - 8023	907-824-PP004 BIRD PROOFING
ELECTRIC FANS	8	EACH	8021 - 8023	907-824-PP004 ELECTRIC FANS
2'-4" x 2" X 6" PLASTIC PLANKS	930	EACH	8039, 8040	907-824-PP004 FENDER SYSTEM & ACCESS
#10 x 3" STAINLESS STEEL DECK SCREWS	3720	EACH	8039, 8040	907-824-PP004 FENDER SYSTEM & ACCESS
SAFETY RAILING POSTS	105	EACH	8039, 8040	907-824-PP004 FENDER SYSTEM & ACCESS
SAFETY CABLE	1116	L.F.	8039, 8040	907-824-PP004 FENDER SYSTEM & ACCESS
U-CLAMP	212	EACH	8039, 8040	907-824-PP004 FENDER SYSTEM & ACCESS
PLASTIC CATWALK SUPPORT	212	EACH	8039, 8040	907-824-PP004 FENDER SYSTEM & ACCESS
DOLPHIN CABLE WRAP	500	L.F.	8039, 8040	907-824-PP004 FENDER SYSTEM & ACCESS
DOLPHIN CABLE STAPLE	8	EACH	8039, 8040	907-824-PP004 FENDER SYSTEM & ACCESS
¾" BOLTS	24	EACH	8039, 8040	907-824-PP004 FENDER SYSTEM & ACCESS
⅞" ADHESIVE ANCHOR BOLTS	16	EACH	8039, 8040	907-824-PP004 FENDER SYSTEM & ACCESS
2" x 6" x 18'-0" TIMBER BEAM	2	EACH	8039, 8040	907-824-PP004 FENDER SYSTEM & ACCESS
½" DIAMETER S.S. FOR THE CATWALK SUPPORT	210	EACH	8039, 8040	907-824-PP004 FENDER SYSTEM & ACCESS
⅞" ADHESIVE ANCHOR BOLTS	64	EACH	8040 - 8044	907-824-PP004 FENDER SYSTEM & ACCESS
⅞" DIAMETER BOLT	110	EACH	8040 - 8044	907-824-PP004 FENDER SYSTEM & ACCESS
¾" BOLTS	21	EACH	8040 - 8044	907-824-PP004 FENDER SYSTEM & ACCESS
2.5" O.D. PIPE	80	EACH	8040 - 8044	907-824-PP004 FENDER SYSTEM & ACCESS
4" x 9" x ½" PLATE	35	EACH	8040 - 8044	907-824-PP004 FENDER SYSTEM & ACCESS
FENCE	1	EACH	8040 - 8044	907-824-PP004 FENDER SYSTEM & ACCESS
GATE	1	EACH	8040 - 8044	907-824-PP004 FENDER SYSTEM & ACCESS
BRIDGE LEVEL PLATFORM	66.94	SQ. FT.	8040 - 8044	907-824-PP004 FENDER SYSTEM & ACCESS
MACHINERY LEVEL PLATFORM	65.25	SQ. FT.	8040 - 8044	907-824-PP004 FENDER SYSTEM & ACCESS
FENDER LEVEL PLATFORM	21.46	SQ. FT.	8040 - 8044	907-824-PP004 FENDER SYSTEM & ACCESS
SPRAY COAT ON CONTROL HOUSE	550	SQ. FT.	8040 - 8044	907-824-PP004 FENDER SYSTEM & ACCESS

PLAN
BRIDGE DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

00:00AMPM DGNFILENAME

1

T.N.	DATE	BY	REVISION
1	10/16/19		Added Pay Item No. and Description

TIMOTHY JOHNSON NOLES
REGISTERED PROFESSIONAL
ENGINEER
21191
STATE OF MISSISSIPPI

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

BRIDGE AT STA. 8+74.03

BRIDGE REPAIR ITEMS

FMS: 107705 / 301000

COUNTY: JACKSON

PROJECT NUMBER: BR-9385-00(017)

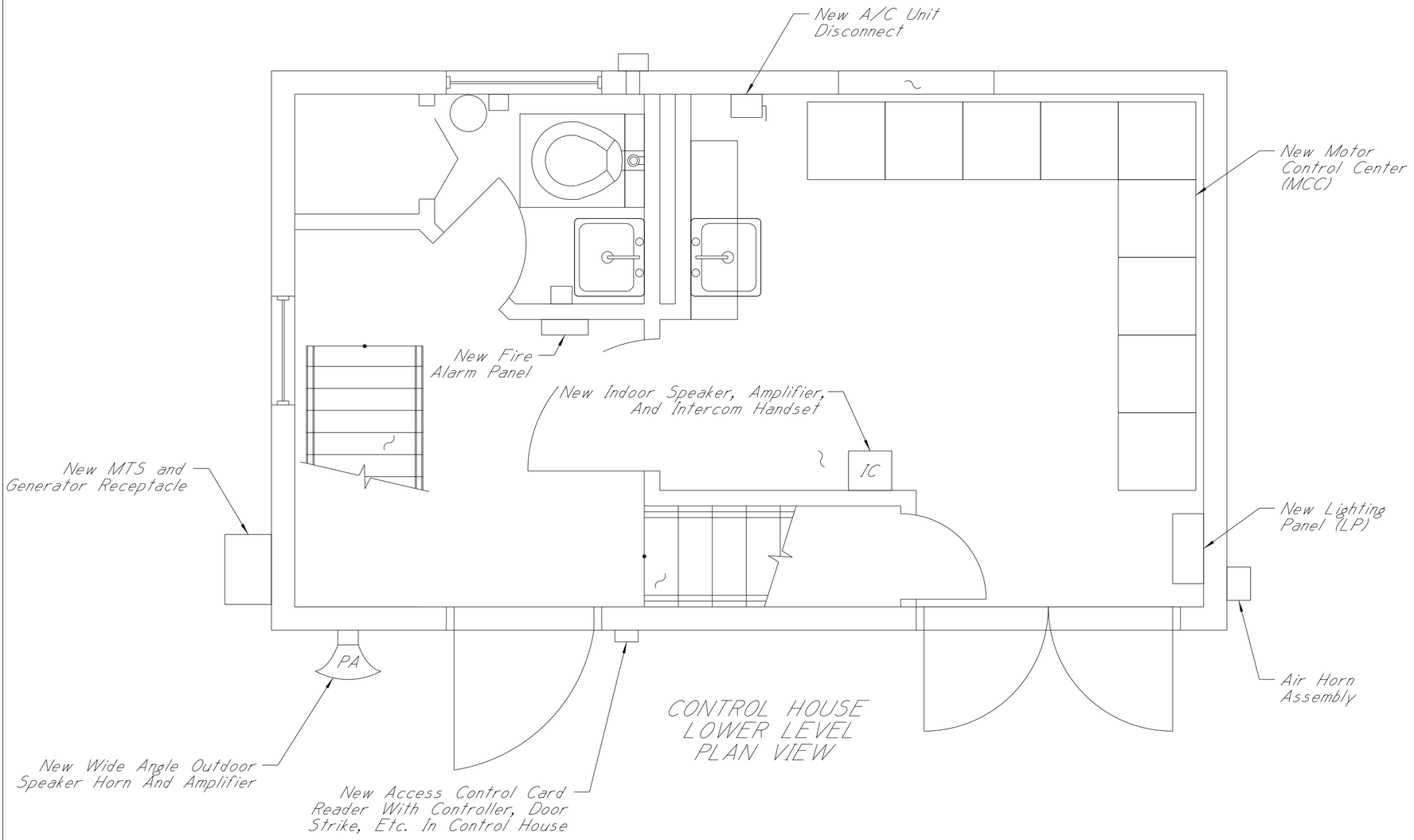
DESIGNER B. SMITH CHECKER E. WETEKAMM
DETAILER B. SMITH ISSUE DATE 03/15/2019
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.

WORKING NUMBER
S-55

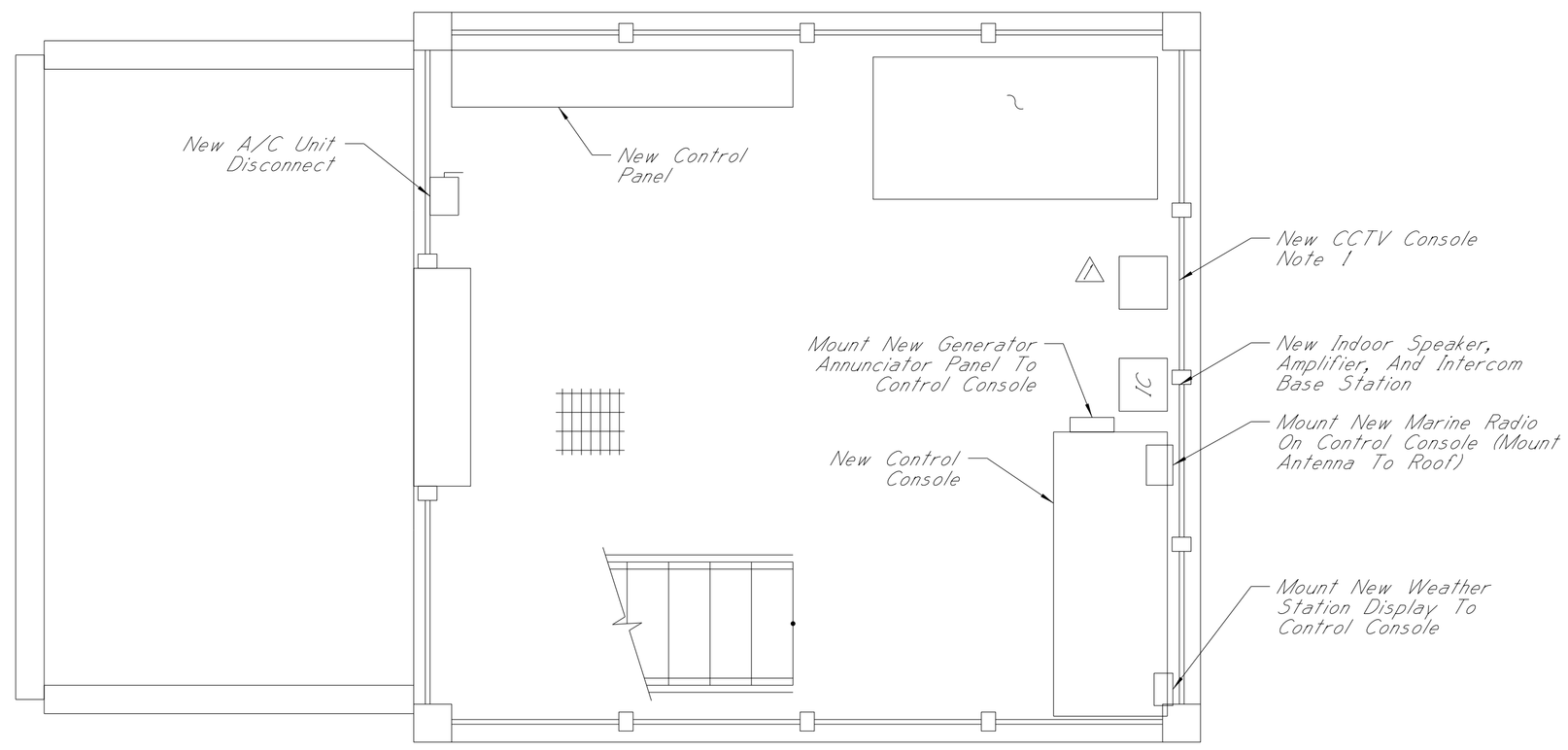
SHEET NUMBER
8059

ADDENDUM

STATE	PROJECT NO.
MISS.	**BR-9385-00(017)**



CONTROL HOUSE
LOWER LEVEL
PLAN VIEW



CONTROL HOUSE
UPPER LEVEL
PLAN VIEW

△ NOTES:
1. Contractor Shall Submit For Review And Approval The Final Location Of CCTV Console.

BY	REVISION	DATE
AB	Added CCTV To Drawing	10/16/19

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

BRIDGE AT STA. 8+74.03

CONTROL HOUSE
EQUIPMENT LAYOUT

FMS: 107705 / 301000

COUNTY: JACKSON

PROJECT NUMBER: BR-9385-00(017)

WORKING NUMBER
E-09

SHEET NUMBER
8209

DESIGNER APB
DETAILER SK
CHECKER AHN
ISSUE DATE 03/15/2019

DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.

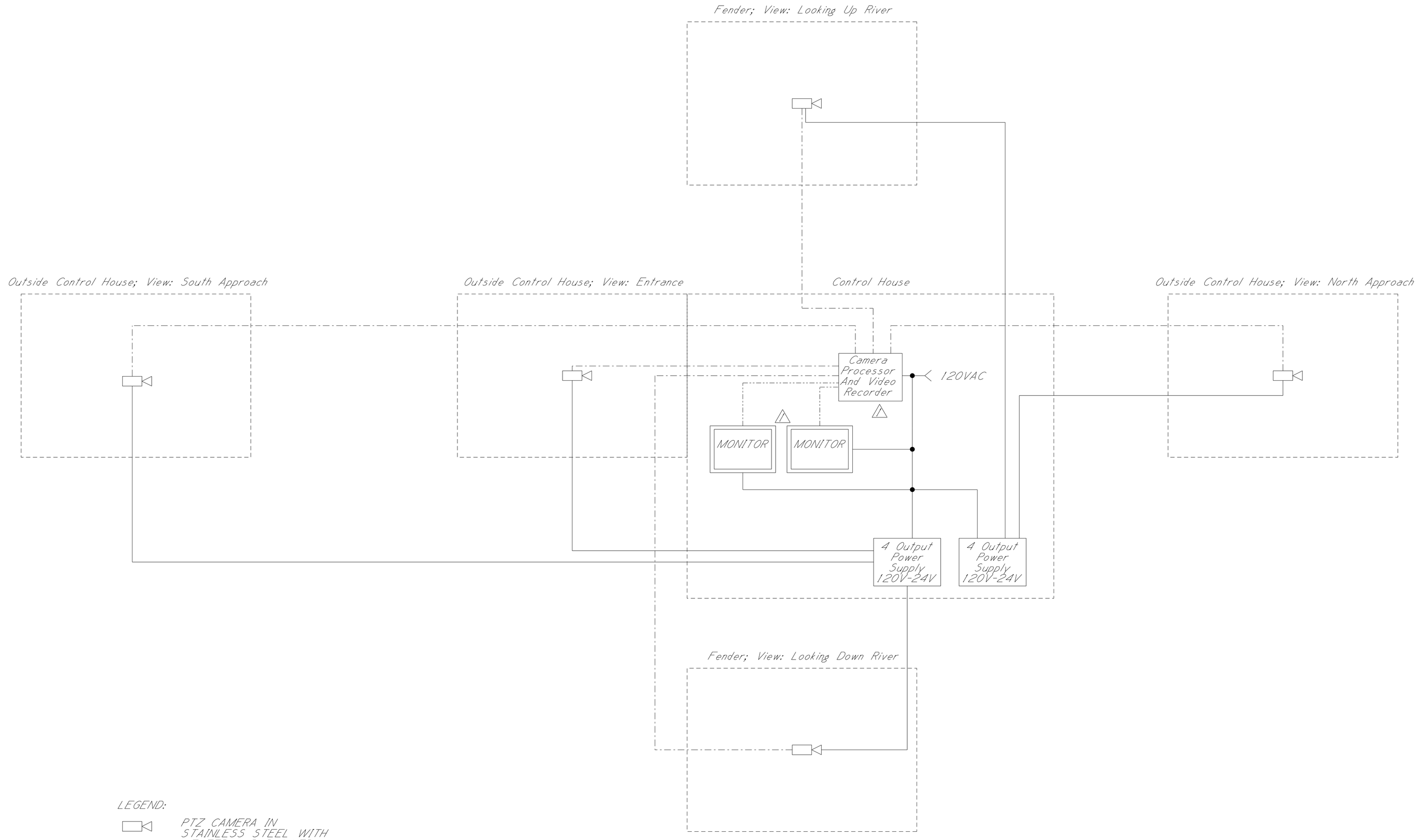
JASON P. BARNETT — REGISTERED PROFESSIONAL ENGINEER — 29633 — STATE OF MISSISSIPPI

PLAN
BRIDGE DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

001:00AMPM DGNFILENAME

ADDENDUM

STATE	PROJECT NO.
MISS.	**BR-9385-00(017)**



LEGEND:

- PTZ CAMERA IN STAINLESS STEEL WITH HEATER AND BLOWER
- MONITOR — Ceiling Mounted High Def. Flat Screen Color Monitor ⚠1 With All Mounting Hardware
- HDMI Cable
- CAT6 Ethernet Cable
- Power Cable (Either 120VAC or 24VAC)

NOTES: ⚠1

1. Contractor Shall Utilize Standard Manufacturer Mounts To Mount CCTV Cameras. Contractor Shall Submit For Review And Approval The Optimal Locations To Capture The Listed Views.
2. Minimum Conduit Size Shall Be 3/4" PVC-RGS. All Interconnections Shown On This Sheet Are Additional Required Conduits/Conductors To That Shown On The Cable And Conduit Schedules/Riser Diagrams.
3. All Components Shown Are New Unless Noted Otherwise.

PLAN
BRIDGE DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

Ø0: Ø0AMPM DGNFILENAME

DATE	REVISION	BY
10/16/19	Updated CCTV Equipment ⚠1	AB

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

BRIDGE AT STA. 8+74.03

CCTV DIAGRAM

FMS: 107705 / 301000

COUNTY: JACKSON

PROJECT NUMBER: BR-9385-00(017)

WORKING NUMBER E-40

SHEET NUMBER 8240

DESIGNER TK DETAILER TK CHECKER AHN ISSUE DATE 03/15/2019

DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E.
DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.

ANDREW P. BARNES — LICENSED PROFESSIONAL ENGINEER 29633 — STATE OF MISSISSIPPI