

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>11/19/2019</u>	ADDENDUM NO. <u>4</u>	DATED <u>12/2/2019</u>
ADDENDUM NO. <u>2</u>	DATED <u>11/20/2019</u>	ADDENDUM NO. _____	DATED _____
ADDENDUM NO. <u>3</u>	DATED <u>11/25/2019</u>	ADDENDUM NO. _____	DATED _____

Number	Description
1	Revised Table of Contents; Revised NTB No. 1991; Added NTB Nos. 2055, 2056, 2057, 2058, & 2059; Deleted Progress Schedule; Amendment EBS Download Required.
2	Postponed til December 5, 2019; Amendment EBSx Download Required.
3	Revised NTB No. 2058; Amendment EBSx Download Required.
4	Revised Table of Contents; Add SP 907-804-8; Revised Bid Items; Revised or Added Plan Sheet Nos. 2, 7, 19, 23-35; 38, 41-42, 49, 71,81, 88, 96, 104, 111, & 120-124; Amendment EBSx Download Required.

TOTAL ADDENDA: 4
(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-0020-01(216)/ 105858302000 & BR-0020-01(216)/ 105858303000
Hinds & Rankin County(ies)

Revised 01/26/2016

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
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PROJECT: BR-0020-01(216)/105858302 - Hinds
BR-0020-01(216)/105858303 - Rankin

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PROJECT: BR-0020-01(216)/105858302 - Hinds
BR-0020-01(216)/105858303 - Rankin

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

12/02/2019 04:24 PM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-804-8

CODE: (SP)

DATE: 12/02/2019

SUBJECT: Mass Concrete

PROJECT: BR-0020-01(216) / 105858302 & 303 -- Hinds & Rankin Counties

Section 804, Concrete Bridges and Structures, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as modified by this Special Provision is applicable to Mass Concrete Only.

907-804.01--Description. The Contractor shall produce a structure free of shrinkage cracks that would be a result of heat of hydration during the curing of large concrete cross-sections. This shall be accomplished through appropriate concrete mix design and management of concrete temperature and temperature differential. Structural mass concrete shall be defined as any concrete placements with a least dimension greater than four feet (4'). This does not apply to concrete drilled shafts.

907-804.02--Materials. Materials for mass concrete shall be as follows:

- A. Cement shall be Type I, II, IL, IP, or IS.
- B. Use either Ground Granulated Blast Furnace Slag or Class F fly ash. Class C fly ash may also be used. The maximum total substitution of Portland cement shall not exceed 50%, including the amount in the blended cement.
- C. Maximum water to cementitious ratio shall be 0.45.

907-804.03--Construction Requirements.

907-804.03.1--Thermal Control Plan. The Contractor shall develop and submit a written Thermal Control Plan (TCP) to the Engineer describing the procedures that will be used during the period of heat dissipation following concrete placement, so the temperature requirements given in Subsection 907-804.03.2 of this specification are met. The TCP shall be submitted at least 30 calendar days before the first intended structural mass concrete placement.

Compliance with this specification may result in long cooling times. The Contractor should consider options to control heat of hydration that are compatible with their desired construction schedule and erection procedures.

Concrete covered by this specification shall not be placed until the TCP has received written approval by the Engineer and the equipment and materials necessary to facilitate the plan are on site and ready for use. Temperature sensing devices shall be provided and installed according to Subsection 907-804.03.2.1.2.3 of this specification.

The location of construction joints shall be as shown in the plans.

The TCP shall be developed using ACI 207.1R-05 as a guide and shall include, but not be limited to the following:

- Based on the concrete mix design, determine by lab testing the adiabatic heat generation for the concrete mix to be used.
- Proposed methods to achieve required concrete temperature and control concrete temperature differential through concrete mix design and construction practices for temperature control to prevent thermal cracking during both warm and cold weather.
- Provide information on the temperature sensing and recording equipment to be used and details of installation locations of the temperature probes for each planned mass concrete placement.
- Mass concrete placement plan to ensure prevention of concrete cold joints.
- Monitoring Plan to control temperature gradient for both warm and cold weather placements.

907-804.03.2--Thermal Control.

907-804.03.2.1--Concrete Temperature Limits. The maximum concrete temperature at time of placement shall be based on the TCP developed by the Contractor, in accordance with Subsection 907-804.03.2 of this specification. The maximum internal concrete temperature during the period of heat dissipation shall not exceed 160°.

907-804.03.2.2--Temperature Differential Restrictions. The temperature differential between the interior of the section and the outside surface of the section shall not exceed the limits in the following table:

After Placement Hours	Maximum Temperature Differential °F
0 - 24	20
24 - 48	30
48 - 72	40
> 72	50

Thermal control of each placement shall be maintained until the temperature of the interior is within 50°F of the average outside air temperature. The average outside air temperature shall be determined by averaging the daily high and low temperatures over the preceding seven (7) calendar days.

907-804.03.2.3--Temperature Sensing and Recording. For each placement of structural mass concrete, two temperature sensors shall be installed at each of the following locations (for a total of eight temperature sensors):

- Center of the placement,
- Midpoint of the side which is the shortest distance from the center (2-inch to 4- inch cover),

- Midpoint of the top surface (2-inch to 4-inch cover), and
- Air temperature.

The purpose for two sensors at each location is to provide a primary and secondary backup.

Temperatures shall be electronically recorded automatically by an approved recorder furnished by the Contractor and shall be capable of continuously recording a minimum of one reading per hour for the duration of the mass concrete temperature monitoring period. Sensors and recorder shall be accurate to within $+2^{\circ}\text{F}$ in the temperature range of 32°F to 185°F . A backup temperature sensing system, which shall include both backup temperature sensors and backup temperature readout device, shall be provided. The back-up system is intended to be used to complete the monitoring of a placement should the primary system fail. Primary system shall be repaired or replaced before the commencement of the next placement.

907-804.03.2.4--Production Concrete. The Contractor or their representative shall inspect and approve the installation of monitoring devices and verify the process for recording temperature data is effective for the first placement of each size and type mass component. Qualifications of all technicians employed to inspect or monitor mass concrete placements shall be submitted to the Engineer for approval. For placements other than the first, a representative designated by the Contractor as qualified to inspect monitor device installation, shall be designated to: 1) review temperature data, 2) be in contact at all times with the Contractor's Project Manager if adjustments must be made as a result of the temperature differential being exceeded, and 3) immediately implement adjustments to temperature control measures as directed by the Contractor's Project Manager.

Recorded temperature data shall be reviewed at intervals of no greater than four (4) hours. Recording of temperature data shall begin when the mass concrete placement is complete and shall continue until the maximum temperature differential (not maximum temperature) is reached and a decreasing temperature differential is confirmed as defined in the TCP. If conditions change, such as a drop in the ambient temperature or a change in insulation which may result in an increase in the temperature differential, the recording of temperature data shall be resumed. A copy of all recorded temperature data shall be furnished to the Engineer as they are determined, and a final report shall be furnished within three (3) days of completion of monitoring of each element.

Only approved mixtures shall be used for production concrete.

If the temperature differential within any structural mass concrete placement exceeds the limits in Subsection 907-804.03.2 of this specification, immediate corrective action shall be taken, future placement of structural mass concrete will be suspended, and a revised TCP shall be submitted to the Engineer for approval. Placement of mass concrete shall not resume without written approval from the Engineer.

When mass concrete temperature differentials are exceeded, all analyses and test results deemed necessary by the Engineer shall be provided by the Contractor for determining the structural integrity and durability of the mass concrete element, to the satisfaction of the Engineer. The analyses and/or test results shall be provided at no additional cost to the Department and without

additional time being granted.

Based on the analyses and test results, a determination of corrective action will be made by the Engineer which may include, but not be limited to, a deduction, epoxy injection of thermal cracks, a combination of both, or removal of the non-complying concrete.

Bridge Replacement on I-20, Bridge No. 44.9B, known as Federal Aid Project Nos. BR-0020-01(216) / 105858302 & BR-0020-01(216) / 105858303 in Hinds & Rankin Counties.

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
Roadway Items					
0010	201-A001		7	Lump Sum	Clearing and Grubbing
0020	202-B006		9,662	Square Yard	Removal of Asphalt Paved Shoulders, All Depths
0030	202-B023		1	Each	Removal of Bridge
0040	202-B029		428	Square Yard	Removal of Bridge End Pavement
0050	202-B042		3	Each	Removal of Camera Pole
0060	202-B061		2,083	Linear Feet	Removal of Concrete Median Barrier, Precast
0070	202-B063		1,595	Square Yard	Removal of Concrete Paved Ditch
0080	202-B079		175	Linear Feet	Removal of Concrete Retaining Wall
0090	202-B083		11,750	Square Yard	Removal of Concrete Slope Paving
0100	202-B124		1,280	Linear Feet	Removal of Electrical Conductors
0110	202-B136		6,875	Linear Feet	Removal of Guard Rail
0120	202-B161		1	Each	Removal of High Mast Lighting Foundation
0130	202-B162		1	Each	Removal of Impact Attenuator
0140	202-B170		1	Each	Removal of Junction Box
0150	202-B179		1	Each	Removal of Low Mast Lighting Foundation
0160	202-B185		2	Each	Removal of Overhead Sign Including Panels, Truss, Supports & Footing
0170	202-B188		6,795	Square Yard	Removal of Pavement, All Types and Depths
0180	202-B191		550	Linear Feet	Removal of Pipe, 8" And Above
0190	202-B219		3	Each	Removal of Sign, Ground Mounted with Posts
0200	202-B226		20,742	Square Yard	Removal of Soil Cement Treated Base, All Depths
0210	202-B241		18	Mile	Removal of Traffic Stripe
0220	203-A001	(E)	53,527	Cubic Yard	Unclassified Excavation, FM, AH
0230	203-EX021	(E)	29,227	Cubic Yard	Borrow Excavation, AH, FME, Class B9-6
0240	203-G001	(E)	38,658	Cubic Yard	Excess Excavation, FM, AH
0250	203-I002		3,112	Square Yard	Site Grading
0260	206-A001	(S)	936	Cubic Yard	Structure Excavation
0270	209-A004		2,981	Square Yard	Geotextile Stabilization, Type V
0280	209-A005		26,270	Square Yard	Geotextile Stabilization, Type V, Non-Woven
0290	213-C001		20	Ton	Superphosphate
0300	216-A001		1,032	Square Yard	Solid Sodding
0310	219-A001		1,936	Thousand Gallon	Watering [\$20.00]
0320	220-A001		20	Acre	Insect Pest Control [\$30.00]

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0330	221-A001	(S)	1,156	Cubic Yard	Concrete Paved Ditch
0340	223-A001		1,000	Acre	Mowing [\$50.00]
0350	225-A001		20	Acre	Grassing
0360	225-B001		10	Ton	Agricultural Limestone
0370	225-C001		40	Ton	Mulch, Vegetative Mulch
0380	226-A001		20	Acre	Temporary Grassing
0390	234-A001		20,000	Linear Feet	Temporary Silt Fence
0400	234-D001		40	Each	Inlet Siltation Guard
0410	237-A002		2,000	Linear Feet	Wattles, 20"
0420	239-A001		500	Linear Feet	Temporary Slope Drains
0430	246-B001		500	Each	Rockbags
0440	249-A001		1,000	Ton	Riprap for Erosion Control
0450	304-A004	(GY)	6,900	Cubic Yard	Granular Material, LVM, Class 5, Group C
0490	402-A002	(BA1)	2,564	Ton	Open Graded Friction Course, 9.5-mm Mixture
0500	402-B001	(A3)	5,513	Gallon	Bituminous Tack Coat
0510	403-A001	(BA1)	811	Ton	12.5-mm, HT, Asphalt Pavement
0520	403-A003	(BA1)	3,499	Ton	12.5-mm, ST, Asphalt Pavement
0530	403-A004	(BA1)	2,089	Ton	19-mm, HT, Asphalt Pavement
0540	403-A006	(BA1)	5,042	Ton	19-mm, ST, Asphalt Pavement
0550	403-A015	(BA1)	1,205	Ton	9.5-mm, ST, Asphalt Pavement
0560	403-B012	(BA1)	48	Ton	9.5-mm, ST, Asphalt Pavement, Leveling
0570	403-E004	(BA1)	1,150	Ton	9.5-mm, HT, Asphalt Pavement, Polymer Modified, Leveling
0580	403-S001		2	Mile	Joint Sealant
0590	405-A001	(BA1)	640	Ton	Stone Matrix Asphalt, 12.5 mm Mixture
0600	405-A002	(BA1)	1,629	Ton	Stone Matrix Asphalt, 9.5 mm Mixture
0610	406-A002		19,711	Square Yard	Cold Milling of Bituminous Pavement, All Depths
0620	407-A001	(A2)	15,420	Gallon	Asphalt for Tack Coat
0630	413-E001		40	Linear Feet	Sawing and Sealing Transverse Joints in Asphalt Pavement
0640	423-A001		3	Mile	Rumble Strips, Ground In
0650	501-K001		394	Square Yard	Transverse Grooving
0660	502-A001	(C)	430	Square Yard	Reinforced Cement Concrete Bridge End Pavement
0670	503-C010		14,545	Linear Feet	Saw Cut, Full Depth
0680	601-B001	(S)	36	Cubic Yard	Class "B" Structural Concrete, Minor Structures
0690	602-A001	(S)	2,895	Pounds	Reinforcing Steel

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0700	603-CA003	(S)	102	Linear Feet	15" Reinforced Concrete Pipe, Class III
0710	603-CA011	(S)	790	Linear Feet	18" Reinforced Concrete Pipe, Class III
0720	603-CA013	(S)	84	Linear Feet	18" Reinforced Concrete Pipe, Class IV
0730	603-CA040	(S)	158	Linear Feet	30" Reinforced Concrete Pipe, Class III
0740	603-CB002	(S)	2	Each	15" Reinforced Concrete End Section
0750	603-CB003	(S)	4	Each	18" Reinforced Concrete End Section
0760	603-CB005	(S)	1	Each	30" Reinforced Concrete End Section
0770	604-B001		4,864	Pounds	Gratings
0780	605-AA003	(S)	5,082	Square Yard	Geotextile for Subsurface Drainage, Type V, Non-Woven
0790	605-O001	(S)	5,700	Linear Feet	12" Perforated Sewer Pipe for Underdrains, SDR 35
0800	605-O004	(S)	390	Linear Feet	6" Perforated Sewer Pipe for Underdrains, SDR 23.5
0810	605-P004	(S)	70	Linear Feet	6" Non-perforated Sewer Pipe for Underdrains, SDR 23.5
0820	605-T001	(S)	160	Linear Feet	4" Perforated Pipe for Underdrains
0830	605-U001	(S)	143	Linear Feet	4" Non-perforated Pipe for Underdrains
0840	605-W001	(GY)	30	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type A, FM
0850	605-W002	(GY)	591	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type B, FM
0860	605-W004	(GY)	1,875	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type E, FM
0870	606-B001		5,050	Linear Feet	Guard Rail, Class A, Type 1
0880	606-C003		1	Each	Guard Rail, Cable Anchor, Type 1
0890	606-D020		4	Each	Guard Rail, Bridge End Section, Type H, Metal Post
0900	606-D023		17	Each	Guard Rail, Bridge End Section, Type I, Metal Post
0910	606-E005		5	Each	Guard Rail, Terminal End Section, Flared
0920	606-E007		7	Each	Guard Rail, Terminal End Section, Non-Flared
0930	607-B035		94	Linear Feet	96" Type I Chain Link Fence, Class I
0940	613-D003		5	Each	Adjustment of Inlet
0950	615-A003	(S)	113	Linear Feet	Concrete Bridge End Barrier, 42"
0960	615-A006	(S)	165	Linear Feet	Concrete Pier Protection Barrier, 42"
0970	615-A007	(S)	1,387	Linear Feet	Concrete Pier Protection Barrier, 54"
0980	615-A011	(S)	1,786	Linear Feet	Concrete Type I Cast-in-Place Median Barrier, 42" High
0990	615-A021	(S)	5,501	Linear Feet	Concrete Type IV Cast-in-Place Median Barrier, 42" High
1000	618-A001		1	Lump Sum	Maintenance of Traffic
1010	619-A1004		2	Mile	Temporary Traffic Stripe, Continuous White, Paint
1020	619-A1005		655	Linear Feet	Temporary Traffic Stripe, Continuous White, Type 1 Tape

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1030	619-A2004		3	Mile	Temporary Traffic Stripe, Continuous Yellow, Paint
1040	619-A2006		908	Linear Feet	Temporary Traffic Stripe, Continuous Yellow, Type 1 Tape
1050	619-A3003		3	Mile	Temporary Traffic Stripe, Skip White, Paint
1060	619-A5002		2,700	Linear Feet	Temporary Traffic Stripe, Detail, Paint
1070	619-A6001		240	Square Feet	Temporary Traffic Stripe, Legend
1080	619-C6001		1,824	Each	Red-Clear Reflective High Performance Raised Marker
1090	619-C9001		240	Each	One-Way Yellow Reflective High Performance Raised Marker
1100	619-D1001		540	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
1110	619-D2001		2,324	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
1120	619-D3001		110	Each	Remove and Reset Signs, All Sizes
1130	619-D4001		1,821	Square Feet	Directional Signs
1140	619-E1001		3	Each	Flashing Arrow Panel, Type C
1150	619-F1001		11,263	Linear Feet	Concrete Median Barrier, Precast
1160	619-F1004		200	Linear Feet	Portable Median Barrier, 60 MPH
1170	619-F2001		12,571	Linear Feet	Remove and Reset Concrete Median Barrier, Precast
1180	619-G4005		144	Linear Feet	Barricades, Type III, Single Faced
1190	619-G5001		86	Each	Free Standing Plastic Drums
1200	619-G7001		22	Each	Warning Lights, Type "B"
1210	619-J1004		7	Each	Impact Attenuator, 60 MPH
1220	619-J2004		4	Each	Impact Attenuator, 60 MPH, Replacement Package
1230	619-J3001		13	Each	Remove and Reset Impact Attenuator
1240	620-A001		1	Lump Sum	Mobilization
1250	626-A001		3	Mile	6" Thermoplastic Double Drop Traffic Stripe, Skip White
1260	626-C002		3	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous White
1270	626-F001		3	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous Yellow
1280	626-G004		10,899	Linear Feet	Thermoplastic Double Drop Detail Stripe, White
1290	626-G005		623	Linear Feet	Thermoplastic Double Drop Detail Stripe, Yellow
1300	626-H001		80	Square Feet	Thermoplastic Double Drop Legend, White
1310	627-K001		841	Each	Red-Clear Reflective High Performance Raised Markers
1320	629-A002		1	Each	Vehicular Impact Attenuator, 50 MPH
1330	630-B002		114	Square Feet	Interstate Directional Signs, Bolted Extruded Aluminum Panels, Ground Mounted
1340	630-B003		1,020	Square Feet	Interstate Directional Signs, Bolted Extruded Aluminum Panels, Overhead Mounted
1350	630-C003		70	Linear Feet	Steel U-Section Posts, 3.0 lb/ft

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1360	630-D007		43	Linear Feet	Structural Steel Beams, W6 x 15
1370	630-D008		29	Linear Feet	Structural Steel Beams, W6 x 9
1380	630-E001		53	Pounds	Structural Steel Angles & Bars, 3 1/2" x 3 1/2" x 1/4" Angles
1390	630-E002		22	Pounds	Structural Steel Angles & Bars, 3" x 3" x 1/4" Angles
1400	630-F006		142	Each	Delineators, Guard Rail, White
1410	630-F007		148	Each	Delineators, Guard Rail, Yellow
1420	630-G004		5	Each	Type 3 Object Markers, OM-3R or OM-3L
1430	630-I003		1	Lump Sum	Metal Overhead Sign Supports, Assembly No. 1, Contractor Designed
1440	630-I015		1	Lump Sum	Metal Overhead Sign Supports, Assembly No. 2, Contractor Designed
1450	630-I020		1	Lump Sum	Metal Overhead Sign Supports, Assembly No. 3, Contractor Designed
1460	660-A003		4	Each	Equipment Cabinet, Type B
1470	660-B001		2	Each	Cabinet Modifications
1480	682-A018		750	Linear Feet	Underground Branch Circuit, AWG 2, 3 Conductor
1490	682-B016		370	Linear Feet	Underground Branch Circuit, Jacked or Bored, AWG 2, 3 Conductor
1500	682-D003		1	Each	Underground Pull Box
1510	682-E002		3	Each	Underground Junction Box
1520	683-B195		1	Each	Lighting Assembly, Low Mast, LED, Type 40-1-15-171
1530	684-A003		1	Cubic Yard	Pole Foundation, 24" Diameter
1540	684-A006		8	Cubic Yard	Pole Foundation, 42" Diameter
1550	686-A001		1	Each	Relocation of Existing Lighting Assemblies
1560	699-A001		1	Lump Sum	Roadway Construction Stakes
1570	815-F002	(S)	1,000	Ton	Sediment Control Stone
1580	907-250-A001		200	Pounds	Polyacrylamide (PAM)
1590	907-619-E3001		4	Each	Changeable Message Sign
1600	907-626-U003		8	Mile	6" Thermoplastic Traffic Stripe, Skip White, 40-mil min.
1610	907-626-V003		6	Mile	6" Thermoplastic Traffic Stripe, Continuous White, 40-mil min.
1620	907-626-X003		6	Mile	6" Thermoplastic Traffic Stripe, Continuous Yellow, 40-mil min.
1630	907-626-Y002		13,691	Linear Feet	Thermoplastic Detail Traffic Stripe, White, 6" Equivalent Length, 40-mil min.
1640	907-626-Y004		257	Linear Feet	Thermoplastic Detail Traffic Stripe, Yellow, 6" Equivalent Length, 40-mil min.
1650	907-630-O004		16	Each	Remove and Reset Sign, All Sizes
1660	907-632-B007		1	Each	Remove and Replace Existing Traffic Signal Cabinet Assembly, Type III Cabinet, Type 1 Controller
1670	907-634-E001		2	Each	Camera Pole with Foundation, 50' Pole
1680	907-634-F002		1	Each	Detector Pole with Foundation, 35' Pole

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1690	907-634-I001		3	Each	Wood Pole, Class II Height 40'
1700	907-634-K001		1	Each	Camera Lowering Device
1710	907-636-B042		2,260	Linear Feet	Electric Cable, Underground in Conduit, THHN, AWG #2, 3 Conductor
1720	907-636-D018		11,565	Linear Feet	Electric Cable, Aerial Supported in Conduit, THHN, AWG #2, 3 Conductor
1730	907-636-E001		22,760	Linear Feet	Electric Cable, Underground in Conduit, Tracer Cable
1740	907-637-A002		15	Each	Pullbox Enclosure, Type 2
1750	907-637-A004		20	Each	Pullbox Enclosure, Type 4
1760	907-637-A005		18	Each	Pullbox Enclosure, Type 5
1770	907-637-B001		8	Each	Pull Box Enclosure, Structure Mounted, Type 1
1780	907-637-H001		8,700	Linear Feet	Traffic Signal Conduit Bank, Underground, Rolled Pipe, 2 @ 2"
1790	907-637-H002		330	Linear Feet	Traffic Signal Conduit Bank, Underground, Rolled Pipe, 2"
1800	907-637-H003		3,670	Linear Feet	Traffic Signal Conduit Bank, Underground, Rolled Pipe, 3 @ 2"
1810	907-637-I001		8,815	Linear Feet	Traffic Signal Conduit Bank, Underground, Drilled or Jacked, Rolled Pipe, 2 @ 2"
1820	907-637-I002		495	Linear Feet	Traffic Signal Conduit Bank, Underground, Drilled or Jacked, Rolled Pipe, 2"
1830	907-637-I003		750	Linear Feet	Traffic Signal Conduit Bank, Underground, Drilled or Jacked, Rolled Pipe, 3 @ 2"
1840	907-637-K001		3,245	Linear Feet	Traffic Signal Conduit Bank, Aerial Supported, Type 1, 2 @ 2"
1850	907-637-K002		700	Linear Feet	Traffic Signal Conduit Bank, Aerial Supported, Type 1, 3 @ 2"
1860	907-641-C001		1	Each	ITS Radar Detection Sensor
1870	907-650-A002		9	Each	On Street Video Equipment, Fixed Type
1880	907-650-A003		3	Each	On Street Video Equipment, PTZ Type
1890	907-659-A001		1	Lump Sum	Traffic Management Center Modifications
1900	907-661-A004		20,510	Linear Feet	Fiber Optic Cable, 72 SM
1910	907-661-A006		4,490	Linear Feet	Fiber Optic Cable, Aerial, 72 SM
1920	907-661-B002		2,535	Linear Feet	Fiber Optic Drop Cable, 12 SM
1930	907-663-A001		5	Each	Network Switch, Type A
1940	907-663-A003		2	Each	Network Switch, Type C
1950	907-663-D001		1,000	Linear Feet	Category 6 Cable, Installed in Conduit
1960	907-664-D001		2	Each	Communications Node Modifications
1970	907-672-B002		4	Each	Remove and Reset ITS Equipment
1980	907-682-A1019		530	Linear Feet	Branch Circuit Wire, AWG #4, 3 Conductor
1990	907-899-A001		1	Lump Sum	Railway-Highway Provisions
2000	907-906001		720	Hours	Trainees [\$5.00]

ALTERNATE GROUP AA NUMBER 1

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
2010	304-F001	(GT)	9,300	Ton	3/4" and Down Crushed Stone Base
ALTERNATE GROUP AA NUMBER 2					
2020	304-F002	(GT)	9,300	Ton	Size 610 Crushed Stone Base
ALTERNATE GROUP AA NUMBER 3					
2030	304-F003	(GT)	9,300	Ton	Size 825B Crushed Stone Base
ALTERNATE GROUP BB NUMBER 1					
2040	308-A001		136	Ton	Cement
2050	308-B003	(M)	29,200	Square Yard	Soil-Cement-Water Mixing, Optional Mixers, Design Soil
2060	308-S001	(A3)	7,300	Gallon	Bituminous Curing Seal
ALTERNATE GROUP BB NUMBER 2					
2062	307-C004	(M)	29,200	Square Yard	6" Soil-Lime-Water Mixing, Class C
2064	307-D001		216	Ton	Lime
2066	307-S001	(A3)	7,300	Gallon	Bituminous Curing Seal
Bridge Items					
2180	501-K001		12,466	Square Yard	Transverse Grooving
2190	605-AA002	(S)	12,563	Square Yard	Geotextile for Subsurface Drainage, Type V
2200	605-T001	(S)	3,751	Linear Feet	4" Perforated Pipe for Underdrains
2210	605-W001	(GY)	1,972	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type A, FM
2220	802-A001	(S)	3,494	Square Feet	Permanent Steel Sheet Piling
2230	802-C001	(S)	1,825	Square Feet	Temporary Steel Sheet Piling
2240	803-D006	(S)	13,440	Linear Feet	HP 14 x 73 Steel Piling
2250	803-K002	(S)	50	Linear Feet	Drilled Shaft, 24" Diameter
2260	803-K007	(S)	3,100	Linear Feet	Drilled Shaft, 54" Diameter
2270	803-K010	(S)	348	Linear Feet	Drilled Shaft, 72" Diameter
2280	803-L003	(S)	1	Each	Test Shaft, 54" Diameter
2290	803-M009	(S)	107	Linear Feet	Trial Shaft, 72" Diameter
2300	803-N001	(S)	560	Linear Feet	Exploration
2310	804-C172	(S)	448	Linear Feet	64' Prestressed Concrete Beam, Type FIB-78
2320	804-C173	(S)	857	Linear Feet	114' Prestressed Concrete Beam, Type FIB-78
2330	804-C174	(S)	1,020	Linear Feet	145' Prestressed Concrete Beam, Type FIB-78
2340	804-C175	(S)	1,713	Linear Feet	136' Prestressed Concrete Beam, Type FIB-78
2350	804-C176	(S)	2,077	Linear Feet	148' Prestressed Concrete Beam, Type FIB-78
2360	804-C177	(S)	1,708	Linear Feet	143' Prestressed Concrete Beam, Type FIB-78
2370	804-C178	(S)	846	Linear Feet	147' Prestressed Concrete Beam, Type FIB-78

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
2380	804-C179	(S)	674	Linear Feet	118' Prestressed Concrete Beam, Type FIB-78
2390	804-C180	(S)	1,673	Linear Feet	120' Prestressed Concrete Beam, Type FIB-78
2400	804-C183	(S)	1,186	Linear Feet	170' Prestressed Concrete Beam, Type FIB-84
2410	805-A001	(S)	1,541,753	Pounds	Reinforcement
2420	811-D001	(S)	2	Each	Disc Bearing Device
2430	813-A003	(S)	3,717	Linear Feet	Concrete Railing, 42"
2440	815-D001	(S)	1,787	Cubic Yard	Concrete Slope Paving
2450	907-607-PP001		1,580	Linear Feet	Safety Fence
2460	907-804-A002	(S)	1,632	Cubic Yard	Bridge Concrete, Class AA
2470	907-804-A002	(S)	380	Cubic Yard	Bridge Concrete, Class AA 6000 psi
2480	907-804-A004	(S)	4,568	Cubic Yard	Bridge Concrete, Class BD
2490	907-804-PP004	(S)	1	Lump Sum	Post Tensioning System
2500	907-822-B005		290	Linear Feet	4" Reinforced Elastomeric Molded Rubber Expansion Joint
2510	907-824-PP004		1	Lump Sum	Bridge Repair, Remove and replace bridge railing and deck, per plans
2520	907-824-PP006		12	Each	Bridge Repair, Cap Cleaning

ADDENDUM

STATE	PROJECT NO.
MISS.	BR-0020-01(216)

GENERAL NOTES

- (25) THE EROSION CONTROL DEVICES REFERENCED IN THESE PLANS ARE A MINIMUM REQUIREMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SILT DOES NOT LEAVE THE RIGHT OF WAY OR CONTAMINATE WATERS OF THE U. S. DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN PRIOR TO COMMENCEMENT OF WORK AND MAINTAIN THE PLAN DURING CONSTRUCTION. ANY ADDITIONAL SILT BASINS NOT SHOWN IN THE PLANS SHALL BE INCLUDED IN THE CONTRACTOR'S EROSION CONTROL PLAN PRIOR TO SUBMITTING FOR APPROVAL.
- (26) PRIOR TO EARTHWORK OPERATIONS, THE EXISTING TOP 4" TOPSOIL IS TO BE STRIPPED AND STOCKPILED. AFTER THE GRADING OPERATIONS ARE COMPLETED, SAID TOPSOIL SHALL BE PLACED ON ALL AREAS THAT ARE NOT TO BE PAVED OR OTHERWISE PROTECTED, IN ACCORDANCE WITH SECTION 211 OF THE SPECIFICATIONS, OR THE VEGETATION SCHEDULE (SEE WK. SH. VS-1). EXISTING TOPSOIL AND ALL COSTS ASSOCIATED WITH STRIPPING, HAULING, STOCKPILING, AND PLACEMENT OF THE EXISTING TOPSOIL IS TO BE ABSORBED IN OTHER EARTHWORK ITEMS.
- (27) THE CONTRACTOR IS RESPONSIBLE FOR FIELD-VERIFICATION OF EXISTING GRADES AND MAKING ADJUSTMENTS AS NECESSARY WITH THE APPROVAL OF THE PROJECT ENGINEER.
- (28) TEMPORARY STRIPING SHALL CONFORM TO FINISHED STRIPE SPECIFICATIONS FOR ALIGNMENT, NEATNESS, AND STRAIGHTNESS.
- (29) ALL ITEMS OF WORK ASSOCIATED WITH THE INSTALLATION OF A CONSTRUCTION ENTRANCE SHALL BE ABSORBED IN OTHER ITEMS OF WORK.
- (30) IF COLORS ARE USED ON PLAN/PROFILE SHEETS, THEY ARE INTENDED TO VISUALLY EASE THE LOCATION OF ELEMENTS FOR USERS OF THESE DRAWINGS. ALTHOUGH THE INTENT IS TO CATEGORIZE EVERYTHING AS EITHER EXISTING OR PROPOSED, IT IS THE END USER'S RESPONSIBILITY TO ENSURE ALL ELEMENTS ARE INTERPRETED CORRECTLY, REGARDLESS OF COLOR.
- (31) SEE BRIDGE PLANS FOR DETAILED INDEX SHEET(S), ESTIMATED AND SUMMARY OF QUANTITY SHEETS.
- (32) ALL ADDENDA TO THESE PLANS WILL BE POSTED TO WWW.MDOT.MS.GOV UNDER THE PROPOSAL ADDENDA COLUMN. BIDDERS ARE ADVISED THAT HARD COPIES OF ANY ADDENDA FOR THIS PROJECT WILL NOT BE MAILED. IT IS THE BIDDER'S RESPONSIBILITY TO CHECK AND SEE IF ANY ADDENDA HAVE BEEN POSTED FOR THIS PROJECT.
- (33) THE COST FOR REMOVAL OF ALL HEADWALLS AND WINGWALLS (PIPES, BOX CULVERTS, BOX BRIDGES) SHALL BE ABSORBED IN OTHER ITEMS BID.
- (34) THE BRIDGE DECKS SHALL BE GROOVED AND ALL BRIDGE JOINTS SHALL BE SEALED PRIOR TO OPENING THE BRIDGES TO TRAFFIC.
- (35) STORAGE OF FLAMMABLE MATERIALS WILL NOT BE ALLOWED UNDER ANY BRIDGE STRUCTURES.
- (36) INSTALLATION DATES SHALL BE CLEARLY WRITTEN IN BOLD BLACK MARKINGS ON THE BACK BOTTOM HALF OF ALL SIGNS WITH A PERMANENT MARKING STICK THAT IS WATERPROOF, FADE RESISTANT AND MARKS ON WET OR DRY SURFACES.
- (37) ALL POST, PIPE, AND I-BEAM LENGTHS IN THESE PLANS ARE ESTIMATES. POST LENGTHS FOR ALL SIGNS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO FABRICATION.
- (38) EXISTING SPECIFIC SERVICE (LOGO) SIGNS ARE TO REMAIN IN PLACE UNLESS NOTED IN THE PLANS OR DIRECTED OTHERWISE BY THE PROJECT ENGINEER. LOGO SIGNS THAT REQUIRE RELOCATION OR REMOVAL WILL BE DONE SO BY MISSISSIPPI LOGOS, INC. (601-853-7100).
- (39) MISSISSIPPI LOGOS SHALL BE NOTIFIED IF THERE ARE ANY CHANGES TO AN INTERCHANGE RAMP DESIGNATION OR CONFIGURATION.

GENERAL NOTES (CONT.)

- (40) ALL EXISTING SIGNS WHICH ARE TO BE REMOVED AS A PART OF THIS PROJECT THAT ARE NOT IN CONFLICT WITH CONSTRUCTION SHALL REMAIN IN PLACE UNTIL NEW SIGNS ARE INSTALLED UNLESS NOTED OR DIRECTED OTHERWISE BY THE PROJECT ENGINEER. ROADWAY SIGNS THAT ARE IN CONFLICT WITH CONSTRUCTION SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER, THE COST OF WHICH SHALL BE ABSORBED IN OTHER ITEMS BID.
- (41) ALL EXISTING SIGNS AND SUPPORTS REMOVED UNDER THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND ARE NOT A SEPARATE PAY ITEM WITH THE EXCEPTION OF THE GUIDE SIGN 0.0625" OVERLAY PANELS WHICH SHALL BECOME THE PROPERTY OF MDOT. CONTRACTOR SHALL ARRANGE WITH THE PROJECT ENGINEER A SUITABLE TIME FOR PICK-UP BY MDOT. MDOT RESERVES THE RIGHT TO REFUSE ANY MATERIAL THAT IS DAMAGED OR UNSUITABLE FOR REFURBISHMENT.
- (42) DIRECT-APPLIED LEGEND, BORDER, AND/OR SHIELDS ARE TO BE USED ON ALL GUIDE SIGNS. DIGITALLY PRODUCED SIGN COPY, SHIELDS, LEGEND, SYMBOLS, OR IMAGES WILL NOT BE ALLOWED WITHOUT WRITTEN APPROVAL FROM MDOT'S PROJECT ENGINEER.
- (43) AFTER THE PERMANENT SIGNS HAVE BEEN INSTALLED, THE CONTRACTOR SHALL SUBMIT TO THE PROJECT ENGINEER A DIGITAL COPY OF A MICROSOFT EXCEL SPREADSHEET WITH THE FOLLOWING INVENTORY DATA CAPTURED FOR EACH SIGN: LOCATION OF SIGN (LATITUDE-LONGITUDE GPS COORDINATES), MUTCD SIGN CODE, SIZE, BACKGROUND AND LEGEND COLORS, SUPPORT TYPE (POST, PIPE, SQUARE POST, OR I-BEAM), NUMBER OF SUPPORTS, DATE OF INSTALLATION, SIGN FACE DIRECTION, ROUTE NAME OR NUMBER, DIRECTION OF VEHICLE TRAVEL, AND LEGEND ON SIGN IF APPLICABLE. EACH SIGN SHALL BE ASSIGNED A UNIQUE ID NUMBER AND A DIGITAL PHOTO OF EACH SIGN SHALL BE SUBMITTED IN BITMAP FORMAT. THE PHOTO FILENAME SHALL CORRESPOND WITH THE UNIQUE ID NUMBER.
- (44) GUARDRAIL DESIGNATED TO BE REMOVED SHALL BE DELIVERED TO THE WHITEFIELD MAINTENANCE HEADQUARTERS AND STOCKPILED. THE ADDRESS OF THE MAINTENANCE HEADQUARTERS IS 3769 HWY. 468, PEARL, MISSISSIPPI. THE CONTRACTOR SHALL COORDINATE DELIVERY OF THE MATERIAL WITH MDOT MAINTENANCE PERSONNEL 2 DAYS PRIOR TO DELIVERY. MDOT MAINTENANCE PERSONNEL MAY BE REACHED AT 601-683-3341.
- (45) REMOVAL OF PRECAST BARRIERS ON I-20 WESTBOUND TO BE RETAINED BY MDOT AND DELIVERED TO THE MDOT STOCKPILE LOCATED ON US HWY 51 NORTHBOUND APPROXIMATELY 0.3 MILES EAST OF GALLATIN STREET. THE CONTRACTOR SHALL COORDINATE DELIVERY OF THE MATERIAL WITH MDOT MAINTENANCE PERSONNEL 2 DAYS PRIOR TO DELIVERY. MDOT MAINTENANCE PERSONNEL MAY BE REACHED AT 601-683-3341.
- (46) WITHIN RAILROAD CORRIDOR AREA, EXCAVATE CAREFULLY DUE TO UNDERGROUND LINES AND EXISTING SWITCH BOX.

BY	
DATE	
REVISION	
NOTE REMOVED	
DATE	11/22/19
DESIGN TEAM	HNTB
CHECKED	KBP
DATE	11-5-18

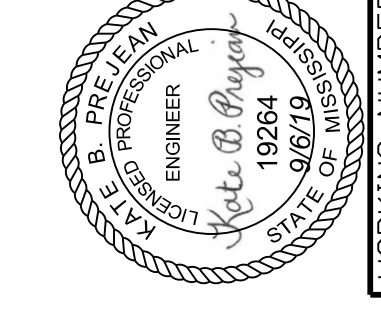
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
GENERAL NOTES
I-20 EASTBOUND

PROJ. NO.: BR-0020-01(216)
 COUNTY: HINDS

WORKING NUMBER
GN-2

FILENAME: gn_sh.dgn
 HINTB
 DATE 11-5-18

SHEET NUMBER
7



STATE	PROJECT NO.
MISS.	BR-0020-01(216)

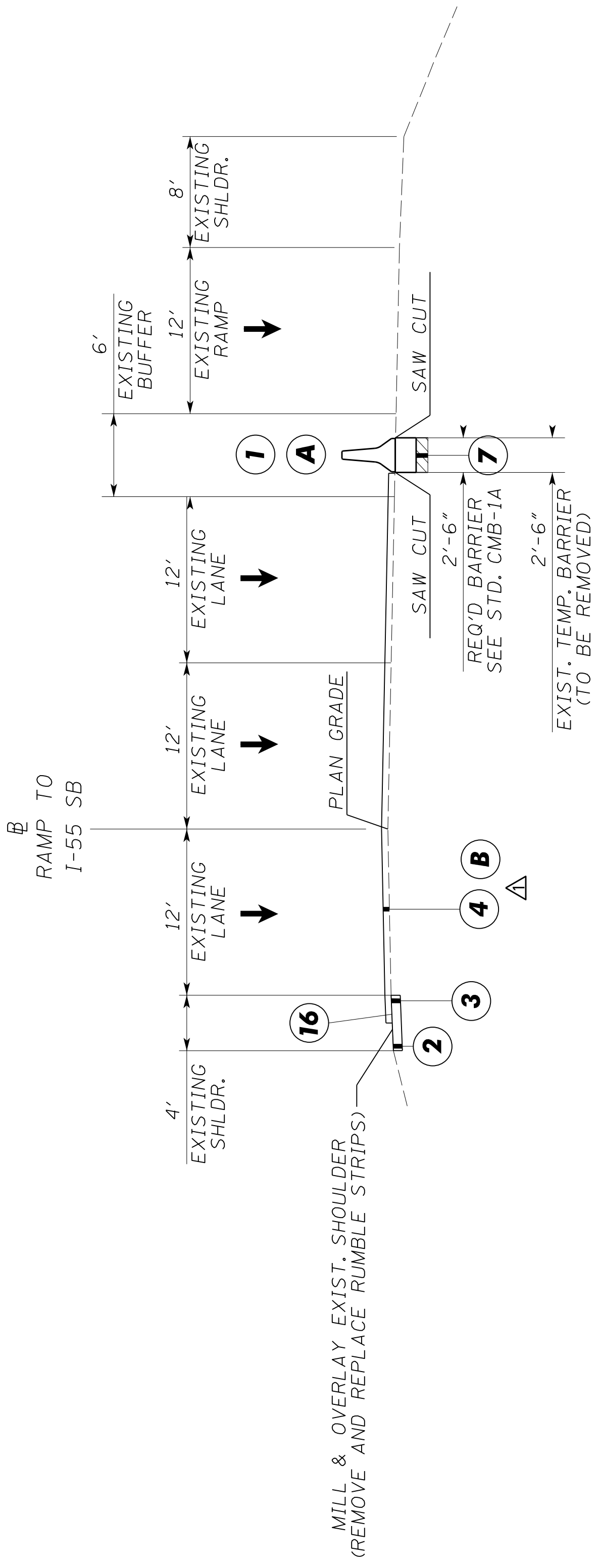
Required Protective Barriers

- ① 42" CONCRETE MEDIAN BARRIER REQ'D (SLOTTED)

Required Base and Pavement

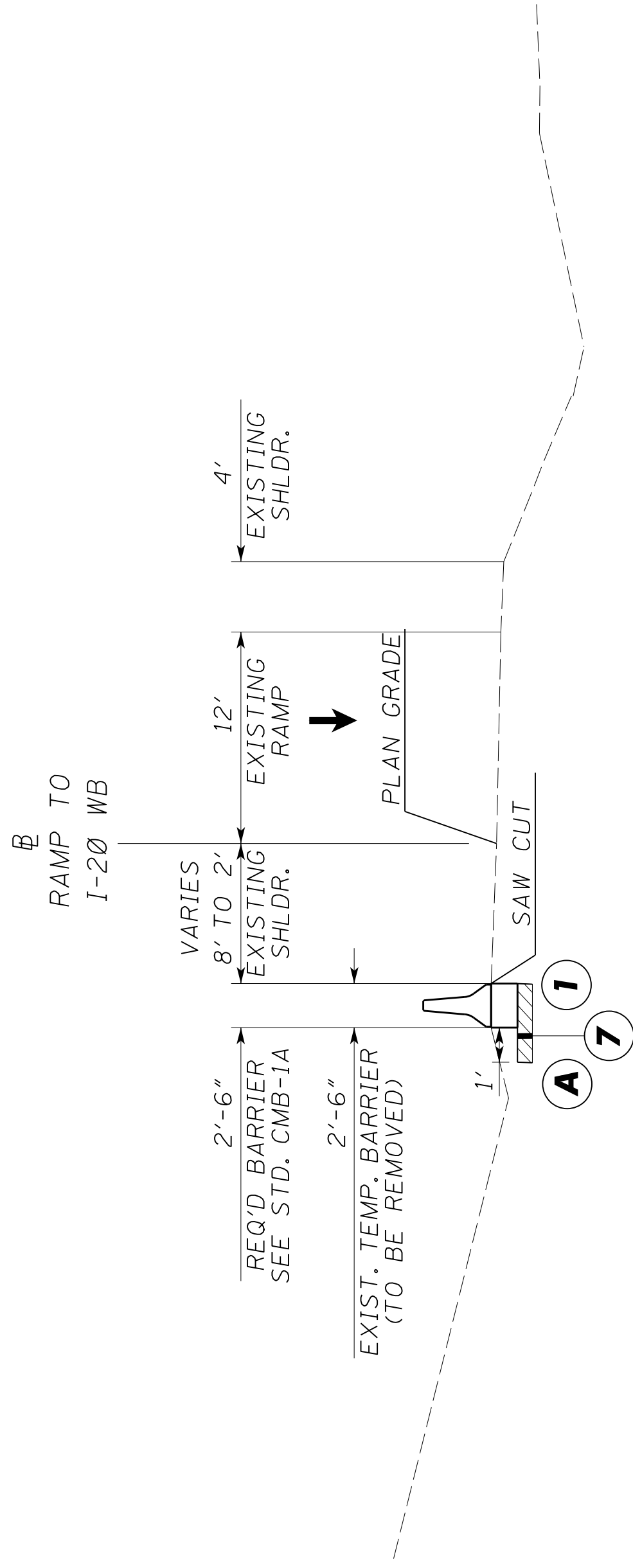
- ② 1.00" COLD MILLING
- ③ 1.00" 9.5mm, ST. (1.0) REQ'D.
- ④ 1.00" HMA, OGFC, (9.5mm MIX).
- ⑦ 8.00" CRUSHED STONE
- ⑩ RUMBLE STRIPS, GROUND-IN.

ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION



Typical Section

I-20 WESTBOUND
CONCRETE MEDIAN BARRIER REPLACEMENT



Typical Section

RAMP US-51 / GALLATIN ST. TO I-20 WESTBOUND
CONCRETE MEDIAN BARRIER REPLACEMENT

Typical Section Notes

- Ⓐ (SEE STANDARD CMB-1A FOR TYPICAL BARRIER INSTALLATION)
- Ⓑ STA. 534+20.92 TO STA. 574+00.00 I-20 WESTBOUND AND STA. 555+00.00 TO STA. 574+00.00 I-55 SOUTHBOUND - OGFC OVERLAY REQUIRED

General Notes

- * SEE TS-1 FOR PAVEMENT DETERMINATION DATA.
- * RUMBLE STRIPS TO BE INSTALLED AS REQUIRED. SEE RS-3 FOR DETAILS.

NOT TO SCALE

DATE	BY	REVISION
11/22/19	KBP	OGFC OVERLAY ADED

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
TYPICAL SECTION
I-20 WEST BOUND &
RAMP US-51 TO I-20 WB

Project No.: BR-0020-01(216)
County: Hinds

WORKING NUMBER
TS-12

SHEET NUMBER
19

DESIGN TEAM: HNTB CHECKED: KBP DATE: 11-5-18

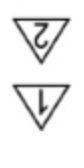
ADDENDUM


STATE	PROJECT NO.
MISS	BR-0020-01(216)/BR-0020-01(216)

SUMMARY OF QUANTITIES (SHEET 1)

PAY ITEM NO.	PAY ITEM	UNIT	HINDS : 105858-302000	
			Prelim	Final
	REMOVAL ITEMS			
201-B001	Clearing and Grubbing	ACRE	7	
202-B006	Removal of Asphalt Paved Shoulders, All Depths	SY	9,662	
202-B023	Removal of Bridge	EA	1	
202-B029	Removal of Bridge End Pavement	SY	428	
202-B042	Removal of Camera Pole	EA	3	
202-B061	Removal of Concrete Median Barrier, Precast	LF	2,083	
202-B063	Removal of Concrete Paved Ditch	SY	1,595	
202-B079	Removal of Concrete Retaining Wall	LF	175	
202-B083	Removal of Concrete Slope Paving	SY	11,750	
202-B124	Removal of Electrical Conductors	LF	1,280	
202-B136	Removal of Guard Rail	LF	6,875	
202-B161	Removal of High Mast Lighting Foundation	EA	1	
202-B162	Removal of Impact Attenuator	EA	1	
202-B170	Removal of Junction Box	EA	1	
202-B179	Removal of Low Mast Lighting Foundation	EA	1	
202-B185	Removal of Overhead Sign Including Panels, Truss, Supports & Footing	EA	2	
202-B188	Removal of Pavement, All Types and Depths	SY	6,795	
202-B191	Removal of Pipe, 8" And Above	LF	550	
202-B219	Removal of Sign, Ground Mounted with Posts	EA	3	
202-B226	Removal of Soil Cement Treated Base, All Depths	SY	20,742	
202-B241	Removal of Traffic Stripe	MI	18	
	EARTHWORK ITEMS			
203-A001	Unclassified Excavation, FM, AH	CY	53,527	
203-EX021	Borrow Excavation, AH, FME, Class B9-6	CY	29,227	
203-G001	Excess Excavation, FM, AH	CY	38,658	
203-I002	Site Grading	SY	3,112	
206-A001	Structure Excavation	CY	936	
209-A004	Geotextile Stabilization, Type V	SY	2,981	
209-A005	Geotextile Stabilization, Type V, Non-Woven	SY	26,270	
	EROSION CONTROL ITEMS			
213-C001	Superphosphate	TON	20	
216-A001	Solid Sodding	SY	1,032	
219-A001	Watering	KGAL	1,936	
220-A001	Insect Pest Control	ACRE	20	
221-A001	Concrete Paved Ditch	CY	1,156	
223-A001	Mowing	ACRE	1,000	
225-A001	Grassing	ACRE	20	
225-B001	Agricultural Limestone	TON	10	
225-C001	Mulch, Vegetative Mulch	TON	40	
226-A001	Temporary Grassing	ACRE	20	

- ① GUARDRAIL DESIGNATED FOR REMOVAL SHALL BE RETURNED TO MDOT. SEE GENERAL NOTES FOR DETAILS.
- ② ITEM INCLUDES ALL COSTS OF REMOVAL OF THE 1-20 WESTBOUND PRECAST CONCRETE MEDIAN BARRIER CURRENTLY IN PLACE AND DELIVERY TO MDOT. SEE GENERAL NOTES FOR DETAILS.
- ③ SEE BRIDGE PLANS FOR SUGGESTED DEMOLITION SEQUENCE;
SPANS: 1 @ 59', 1 @ 60', 2 @ 94', 1 @ 135', 3 @ 70', 3 @ 85', 1 @ 69'
INCLUDES 13 CY FOR PAVED FLUME
- ④ THE ESTIMATED ACREAGE FOR MOWING IS 100 ACRES. THE TOTAL IS BASED ON 5 MOWING CYCLES PER YEAR. THE NUMBER OF MOWING CYCLES REQUIRED WILL BE DETERMINED BY THE ENGINEER.
- ⑤ ESTIMATED QUANTITY TO USED AS DIRECTED BY THE ENGINEER
- ⑥ INCLUDES REMOVAL OF FLARED END SECTIONS
- ⑦ ITEM INCLUDES ALL COST OF REMOVING RETAINING WALL, FOOTINGS AND TIE BACKS.
- ⑧ TO BE USED FOR GRADING EXISTING RAILROAD DITCH TO DRAIN
- ⑨ INCLUDES 8658 CY FOR SLIDE REPAIR
- ⑩ INCLUDES 15,814 CY FOR SLIDE REPAIRS
- ⑪ INCLUDES 140 SY FOR SLIDE REPAIRS
- ⑫



	
MISSISSIPPI DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES FINAL PLANS	
11/21/2019 REVISION CH	11/21/2019 REVISION MS
PROJ NO: BR-0020-01(216) COUNTY: HINDS	
Working Number SQ-1	
Design Team HNTB Checked KEB Date 11/21/2019	
FILENAME: SQS Sheet Number 23	

ADDENDUM


STATE	PROJECT NO.
MISS	BR-0020-01(216)/BR-0020-01(216)

SUMMARY OF QUANTITIES (SHEET 2)

PAY ITEM NO.	PAY ITEM	UNIT	HINDS : 105858-302000	
			Prelim	Final
234-A001	Temporary Silt Fence	LF	20,000	
234-D001	Inlet Siltation Guard	EA	40	
237-A002	Wattles, 20"	LF	2,000	
239-A001	Temporary Slope Drains	LF	500	
246-B001	Rockbags	EA	500	
249-A001	Riprap for Erosion Control	TON	1,000	
907-250-A001	Polyacrylamide (PAM)	LBS	200	
815-F002	Sediment Control Stone	TON	1,000	
	BASE ITEMS			
304-A004	Granular Material, LVM, Class 5, Group C	CY	6,900	
304-F001	3/4" and Down Crushed Stone Base	TON	9,300	
	OR			
304-F002	Size 610 Crushed Stone Base	TON	9,300	
	OR			
304-F003	Size 825B Crushed Stone Base	TON	9,300	
	SUBGRADE TREATMENT ITEMS			
307-C004	6" Soil-Lime-Water Mixing, Class C	SY	29,200	
307-D001	Lime	TON	216	
307-S001	Bituminous Curing Seal	GAL	7,300	
	OR			
308-A001	Cement	TON	136	
308-B003	Soil-Cement-Water Mixing, Optional Mixers, Design Soil	SY	29,200	
308-S001	Bituminous Curing Seal	GAL	7,300	
	PAVEMENT ITEMS			
402-A002	Open Graded Friction Course, 9.5-mm Mixture	TON	2,564	
402-B001	Bituminous Tack Coat	GAL	5,513	
403-A001	12.5-mm, HT, Asphalt Pavement	TON	811	
403-A003	12.5-mm, ST, Asphalt Pavement	TON	3,499	
403-A004	19-mm, HT, Asphalt Pavement	TON	2,089	
403-A006	19-mm, ST, Asphalt Pavement	TON	5,042	
403-A015	9.5-mm, ST, Asphalt Pavement	TON	1,205	
403-B012	9.5-mm, ST, Asphalt Pavement, Leveling	TON	48	
403-E004	9.5-mm, HT, Asphalt Pavement, Polymer Modified, Leveling	TON	1,150	
403-S001	Joint Sealant	MI	2	
405-A001	Stone Matrix Asphalt, 12.5 mm Mixture	TON	640	
405-A002	Stone Matrix Asphalt, 9.5 mm Mixture	TON	1,629	
406-A002	Cold Milling of Bituminous Pavement, All Depths	SY	19,711	
407-A001	Asphalt for Tack Coat	GAL	15,420	
423-A001	Rumble Strips, Ground In	MI	3	
502-A001	Reinforced Cement Concrete Bridge End Pavement	SY	430	
503-C010	Saw Cut, Full Depth	LF	14,545	

- ① INCLUDES 20% INCREASE FOR ESTIMATING PURPOSES
- ② QUANTITY ROUNDED TO THE NEAREST 50 OR 100 UNIT
- ③ ESTIMATED QUANTITY TO USED AS DIRECTED BY THE ENGINEER
- ④ FOR TREATMENT OF SUBGRADE.



	
MISSISSIPPI DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES FINAL PLANS	
REVISION 11/21/2019	Working Number SQ-2
PROJ NO: BR-0020-01(216) COUNTY: HINDS	
FILENAME: SQS Design Team HNTB	Checked KEB Date 11/21/2019
Sheet Number 24	

ADDENDUM

STATE	PROJECT NO.
MISS	BR-0020-01(216)/BR-0020-01(216)

PAY ITEM NO.	PAY ITEM	UNIT	HINDS : 105858-302000	
			Prelim	Final
SUMMARY OF QUANTITIES (SHEET 3)				
	DRAINAGE ITEMS			
413-E001	Sawing and Sealing Transverse Joints in Asphalt Pavement	LF	40	
501-K001	Transverse Grooving	SY	394	
601-B001	Class "B" Structural Concrete, Minor Structures	CY	36	
602-A001	Reinforcing Steel	LBS	2,895	
603-CA003	15" Reinforced Concrete Pipe, Class III	LF	102	
603-CA011	18" Reinforced Concrete Pipe, Class III	LF	790	
603-CA013	18" Reinforced Concrete Pipe, Class IV	LF	84	
603-CA040	30" Reinforced Concrete Pipe, Class III	LF	158	
603-CB002	15" Reinforced Concrete End Section	EA	2	
603-CB003	18" Reinforced Concrete End Section	EA	4	
603-CB005	30" Reinforced Concrete End Section	EA	1	
604-B001	Gratings	LBS	4,864	
605-AA003	Geotextile for Subsurface Drainage, Type V, Non-Woven	SY	5,082	
605-O001	12" Perforated Sewer Pipe for Underdrains, SDR 35	LF	5,700	
605-O004	6" Perforated Sewer Pipe for Underdrains, SDR 23.5	LF	390	
605-P004	6" Non-perforated Sewer Pipe for Underdrains, SDR 23.5	LF	70	
605-T001	4" Perforated Pipe for Underdrains	LF	160	
605-U001	4" Non-perforated Pipe for Underdrains	LF	143	
605-W001	Filter Material for Combination Storm Drain and/or Underdrains, Type A, FM	CY	30	
605-W002	Filter Material for Combination Storm Drain and/or Underdrains, Type B, FM	CY	591	
605-W004	Filter Material for Combination Storm Drain and/or Underdrains, Type E, FM	CY	1,875	
613-D003	Adjustment of Inlet	EA	5	
	BARRIER ITEMS			
606-B001	Guard Rail, Class A, Type 1	LF	5,050	
606-C003	Guard Rail, Cable Anchor, Type 1	EA	1	
606-D020	Guard Rail, Bridge End Section, Type H, Metal Post	EA	4	
606-D023	Guard Rail, Bridge End Section, Type I, Metal Post	EA	17	
606-E005	Guard Rail, Terminal End Section, Flared	EA	5	
606-E007	Guard Rail, Terminal End Section, Non-Flared	EA	7	
607-B035	96" Type I Chain Link Fence, Class I	LF	94	
615-A003	Concrete Bridge End Barrier, 42"	LF	113	
615-A006	Concrete Pier Protection Barrier, 42"	LF	165	
615-A007	Concrete Pier Protection Barrier, 54"	LF	1,387	
615-A011	Concrete Type I Cast-in-Place Median Barrier, 42" High	LF	1,786	
615-A021	Concrete Type IV Cast-in-Place Median Barrier, 42" High	LF	5,501	
629-A002	Vehicular Impact Attenuator, 50 MPH	EA	1	
630-F006	Delineators, Guard Rail, White	EA	71	
630-F007	Delineators, Guard Rail, Yellow	EA	74	
	TRAFFIC CONTROL ITEMS			
618-A001	Maintenance of Traffic	LS	1	

- ① INCLUDES 34 CY FOR PIPE CULVERTS AND 2 CY FOR PERMANENT SIGNS
- ② LENGTH OF REQUIRED GUARD RAIL IS BASED ON A TERMINAL END SECTION OF 37.5'. FOR ANY OTHER LENGTH OF TERMINAL SECTION, THE LENGTH OF NORMAL GUARD RAIL WILL BE ADJUSTED.
- ③ INCLUDES 230 LBS FOR PERMANENT SIGNS & 2665 LBS FOR DRAINAGE ITEMS
- ④ ITEM TO INCLUDE ALL MATERIALS REQUIRED FOR INLET ADJUSTMENTS.
- ⑤ INCLUDES 23 CY FOR SLIDE REPAIRS


④

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④

②



CH	10/17/2019	REVISED PAY ITEMS
BY		Revision
FINAL PLANS		
MISSISSIPPI DEPARTMENT OF TRANSPORTATION		
SUMMARY OF QUANTITIES		
		
PROJ NO: BR-0020-01(216)		Working Number
COUNTY: HINDS		SQ-3
FILENAME: SQS	Checked: KEB	Sheet Number
Design Team: HNTB	Date: 11/21/201	25

ADDENDUM


STATE	PROJECT NO.
MISS	BR-0020-01(216)/BR-0020-01(216)

SUMMARY OF QUANTITIES (SHEET 4)

PAY ITEM NO.	PAY ITEM	UNIT	HINDS : 105858-302000	
			Prelim	Final
619-A1004	Temporary Traffic Stripe, Continuous White, Paint	MI	2	
619-A2004	Temporary Traffic Stripe, Continuous Yellow, Paint	MI	3	
619-A3003	Temporary Traffic Stripe, Skip White, Paint	MI	3	
619-A5002	Temporary Traffic Stripe, Detail, Paint	LF	2,700	
619-A6001	Temporary Traffic Stripe, Legend	SF	240	
619-C6001	Red-Clear Reflective High Performance Raised Marker	EA	1,824	A
619-C9001	One-Way Yellow Reflective High Performance Raised Marker	EA	240	A
619-D1001	Standard Roadside Construction Signs, Less than 10 Square Feet	SF	540	
619-D2001	Standard Roadside Construction Signs, 10 Square Feet or More	SF	2,324	
619-D3001	Remove and Reset Signs, All Sizes	EA	110	
619-D4001	Directional Signs	SF	1,821	
619-E1001	Flashing Arrow Panel, Type C	EA	3	A
907-619-E3001	Changeable Message Sign	EA	4	2
619-F1001	Concrete Median Barrier, Precast	LF	11,263	
619-F1004	Portable Median Barrier, 60 MPH	LF	200	
619-F2001	Remove and Reset Concrete Median Barrier, Precast	LF	12,571	
619-G4005	Barricades, Type III, Single Faced	LF	144	
619-G5001	Free Standing Plastic Drums	EA	86	
619-G7001	Warning Lights, Type "B"	EA	22	
619-J1004	Impact Attenuator, 60 MPH	EA	7	
619-J2004	Impact Attenuator, 60 MPH, Replacement Package	EA	4	
619-J3001	Remove and Reset Impact Attenuator	EA	13	
619-A1005	Temporary Traffic Stripe, Continuous White, Type 1 Tape	LF	655	A
619-A2006	Temporary Traffic Stripe, Continuous Yellow, Type 1 Tape	LF	908	A
620-A001	GENERAL ITEMS			
699-A001	Mobilization	LS	1	
	Roadway Construction Stakes	LS	1	
	PAVEMENT MARKING ITEMS			
626-A001	6" Thermoplastic Double Drop Traffic Stripe, Skip White	MI	3	
626-C002	6" Thermoplastic Double Drop Edge Stripe, Continuous White	MI	3	
626-F001	6" Thermoplastic Double Drop Edge Stripe, Continuous Yellow	MI	3	
626-G004	Thermoplastic Double Drop Detail Stripe, White	LF	10,899	
626-G005	Thermoplastic Double Drop Detail Stripe, Yellow	LF	623	
626-H001	Thermoplastic Double Drop Legend, White	SF	80	
907-626-U003	6" Thermoplastic Traffic Stripe, Skip White, 40-mil min.	MI	8	1
907-626-V003	6" Thermoplastic Traffic Stripe, Continuous White, 40-mil min.	MI	6	1
907-626-X003	6" Thermoplastic Traffic Stripe, Continuous Yellow, 40-mil min.	MI	6	1
907-626-Y002	Thermoplastic Detail Traffic Stripe, White, 6" Equivalent Length, 40-mil. min.	LF	13,691	1
907-626-Y004	Thermoplastic Detail Traffic Stripe, Yellow, 6" Equivalent Length, 40-mil. min.	LF	257	1
627-K001	Red-Clear Reflective High Performance Raised Markers	EA	841	

- ① ITEM TO BE USED AS TEMPORARY TRAFFIC STRIPE
- ② ITEM TO BE USED AS SHOWN OR AS DIRECTED BY THE ENGINEER
- ③ PORTABLE BARRIER TO BE USED AS DIRECTED BY THE ENGINEER




	
MISSISSIPPI DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES FINAL PLANS	
REVISION 11/21/2019 REVISD PAY ITEMS	REVISION 10/17/2019 REVISD PAY ITEMS
PROJ NO: BR-0020-01(216) COUNTY: HINDS	
Working Number SQ-4	Sheet Number 26
FILENAME: SQS <small>Design Team HNTB</small>	
Checked KEB	Date 11/21/2019

ADDENDUM

STATE	PROJECT NO.
MISS	BR-0020-01(216)/BR-0020-01(216)

PAY ITEM NO.	PAY ITEM	UNIT	HINDS : 105858-302000	
			Prelim	Final
	SIGNING ITEMS			
630-B002	Interstate Directional Signs, Bolted Extruded Aluminum Panels, Ground Mounted	SF	114	
630-B003	Interstate Directional Signs, Bolted Extruded Aluminum Panels, Overhead Mounted	SF	1,020	
630-C003	Steel U-Section Posts, 3.0 lb/ft	LF	70	
630-D007	Structural Steel Beams, W6 x 15	LF	43	
630-D008	Structural Steel Beams, W6 x 9	LF	29	
630-E001	Structural Steel Angles & Bars, 3 1/2" x 3 1/2" x 1/4" Angles	LBS	53	
630-E002	Structural Steel Angles & Bars, 3" x 3" x 1/4" Angles	LBS	22	
630-G004	Type 3 Object Markers, OM-3R or OM-3L	EA	5	
630-I003	Metal Overhead Sign Supports, Assembly No. 1, Contractor Designed	LS	1	
630-I015	Metal Overhead Sign Supports, Assembly No. 2, Contractor Designed	LS	1	
630-I020	Metal Overhead Sign Supports, Assembly No. 3, Contractor Designed	LS	1	
907-630-O004	Remove and Reset Sign, All Sizes	EA	16	
	ITS ITEMS			
907-632-B007	Remove and Replace Existing Traffic Signal Cabinet Assembly, Type III Cabinet, Type 1 Controller	EA	1	
907-634-E001	Camera Pole with Foundation, 50' Pole	EA	2	
907-634-F002	Detector Pole with Foundation, 35' Pole	EA	1	
907-634-I001	Wood Pole, Class II Height 40'	EA	3	
907-634-K001	Camera Lowering Device	EA	1	
907-636-B042	Electric Cable, Underground in Conduit, THHN, AWG #2, 3 Conductor	LF	2,260	
907-636-D018	Electric Cable, Aerial Supported in Conduit, THHN, AWG #2, 3 Conductor	LF	700	
907-636-E001	Electric Cable, Underground in Conduit, Tracer Cable	LF	11,895	
907-637-A002	Pullbox Enclosure, Type 2	EA	15	
907-637-A004	Pullbox Enclosure, Type 4	EA	15	
907-637-A005	Pullbox Enclosure, Type 5	EA	12	
907-637-B001	Pull Box Enclosure, Structure Mounted, Type 1	EA	8	
907-637-H001	Traffic Signal Conduit Bank, Underground, Rolled Pipe, 2 @ 2"	LF	4,495	
907-637-H002	Traffic Signal Conduit Bank, Underground, Rolled Pipe, 2"	LF	330	
907-637-H003	Traffic Signal Conduit Bank, Underground, Rolled Pipe, 3 @ 2"	LF	340	
907-637-I001	Traffic Signal Conduit Bank, Underground, Drilled or Jacked, Rolled Pipe, 2 @ 2"	LF	5,485	
907-637-I002	Traffic Signal Conduit Bank, Underground, Drilled or Jacked, Rolled Pipe, 2"	LF	495	
907-637-I003	Traffic Signal Conduit Bank, Underground, Drilled or Jacked, Rolled Pipe, 3 @ 2"	LF	750	
907-637-K001	Traffic Signal Conduit Bank, Aerial Supported, Type 1, 2 @ 2"	LF	2,805	
907-637-K002	Traffic Signal Conduit Bank, Aerial Supported, Type 1, 3 @ 2"	LF	700	
907-641-C001	ITS Radar Detection Sensor	EA	1	
907-650-A002	On Street Video Equipment, Fixed Type	EA	9	
907-650-A003	On Street Video Equipment, PTZ Type	EA	3	
907-659-A001	Traffic Management Center Modifications	LS	1	
660-A003	Equipment Cabinet, Type B	EA	4	
660-B001	Cabinet Modifications	EA	2	
907-661-A004	Fiber Optic Cable, 72 SM	LF	11,650	
907-661-A006	Fiber Optic Cable, Aerial, 72 SM	LF	3,505	
907-661-B002	Fiber Optic Drop Cable, 12 SM	LF	2,535	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
SUMMARY OF QUANTITIES	
FINAL PLANS	
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FILENAME: SQS	Checked KEB
Design Team HNTB	

STATE	PROJECT NO.
MISS	BR-0020-01(216)/BR-0020-01(216)

PAY ITEM NO.	PAY ITEM	UNIT	HINDS : 105858-302000	
			Prelim	Final
907-663-A001	Network Switch, Type A	EA	5	
907-663-A003	Network Switch, Type C	EA	1	
907-663-D001	Category 6 Cable, Installed in Conduit	LF	1,000	
907-664-D001	Communications Node Modifications	EA	1	
907-672-B002	Remove and Reset ITS Equipment	EA	4	
	LIGHTING ITEMS			
682-A018	Underground Branch Circuit, AWG 2, 3 Conductor	LF	750	
907-682-A1019	Branch Circuit Wire, AWG #4, 3 Conductor	LF	530	
682-B016	Underground Branch Circuit, Jacked or Bored, AWG 2, 3 Conductor	LF	370	
682-D003	Underground Pull Box	EA	1	
682-E002	Underground Junction Box	EA	3	
683-B195	Lighting Assembly, Low Mast, LED, Type 40-1-15-171	EA	1	
684-A003	Pole Foundation, 24" Diameter	CY	1	
684-A006	Pole Foundation, 42" Diameter	CY	8	
686-A001	Relocation of Existing Lighting Assemblies	EA	1	


SUMMARY OF QUANTITIES (SHEET 6)

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
SUMMARY OF QUANTITIES	
FINAL PLANS	Working Number
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PROJ NO: BR-0020-01(216)	
COUNTY: HINDS	
FILENAME: SQS	Date 11/21/201
Design Team HNTB	Checked KPB

STATE	PROJECT NO.
MISS	BR-0020-01(216)/BR-0020-01(216)

PAY ITEM NO.	PAY ITEM	UNIT	RANKIN : 105858-303000	
			Prelim	Final
	ITS ITEMS			
907-636-D018	Electric Cable, Aerial Supported in Conduit, THHN, AWG #2, 3 Conductor	LF	10,865	
907-636-E001	Electric Cable, Underground in Conduit, Tracer Cable	LF	10,865	
907-637-A004	Pullbox Enclosure, Type 4	EA	5	
907-637-A005	Pullbox Enclosure, Type 5	EA	6	
907-637-H001	Traffic Signal Conduit Bank, Underground, Rolled Pipe, 2 @ 2"	LF	4,205	
907-637-H003	Traffic Signal Conduit Bank, Underground, Rolled Pipe, 3 @ 2"	LF	3,330	
907-637-I001	Traffic Signal Conduit Bank, Underground, Drilled or Jacked, Rolled Pipe, 2 @ 2"	LF	3,330	
907-637-K001	Traffic Signal Conduit Bank, Aerial Supported, Type 1, 2 @ 2"	LF	440	
907-661-A004	Fiber Optic Cable, 72 SM	LF	8,860	
907-661-A006	Fiber Optic Cable, Aerial, 72 SM	LF	985	
907-663-A003	Network Switch, Type C	EA	1	
907-664-D001	Communications Node Modifications	EA	1	

SUMMARY OF QUANTITIES (SHEET 7)

MISSISSIPPI DEPARTMENT OF TRANSPORTATION			Working Number
SUMMARY OF QUANTITIES			SQ-7
FINAL PLANS			Sheet Number
PROJ NO: BR-0020-01(216)			29
COUNTY: RANKIN			
FILENAME: SQS		Checked: KPB	Date: 11/21/201
Design Team: HNTB			

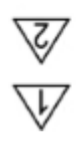
ADDENDUM

STATE	PROJECT NO.
MISS	BR-0020-01(216)/BR-0020-01(216)

SUMMARY OF QUANTITIES (SHEET 8)

PAY ITEM NO.	PAY ITEM	UNIT	Total Amount	
			Prelim	Final
	REMOVAL ITEMS			
201-B001	Clearing and Grubbing	ACRE	7	
202-B006	Removal of Asphalt Paved Shoulders, All Depths	SY	9,662	
202-B023	Removal of Bridge	EA	1	
202-B029	Removal of Bridge End Pavement	SY	428	
202-B042	Removal of Camera Pole	EA	3	
202-B061	Removal of Concrete Median Barrier, Precast	LF	2,083	
202-B063	Removal of Concrete Paved Ditch	SY	1,595	
202-B079	Removal of Concrete Retaining Wall	LF	175	
202-B083	Removal of Concrete Slope Paving	SY	11,750	
202-B124	Removal of Electrical Conductors	LF	1,280	
202-B136	Removal of Guard Rail	LF	6,875	
202-B161	Removal of High Mast Lighting Foundation	EA	1	
202-B162	Removal of Impact Attenuator	EA	1	
202-B170	Removal of Junction Box	EA	1	
202-B179	Removal of Low Mast Lighting Foundation	EA	1	
202-B185	Removal of Overhead Sign Including Panels, Truss, Supports & Footing	EA	2	
202-B188	Removal of Pavement, All Types and Depths	SY	6,795	
202-B191	Removal of Pipe, 8" And Above	LF	550	
202-B219	Removal of Sign, Ground Mounted with Posts	EA	3	
202-B226	Removal of Soil Cement Treated Base, All Depths	SY	20,742	
202-B241	Removal of Traffic Stripe	MI	18	
	EARTHWORK ITEMS			
203-A001	Unclassified Excavation, FM, AH	CY	53,527	
203-EX021	Borrow Excavation, AH, FME, Class B9-6	CY	29,227	
203-G001	Excess Excavation, FM, AH	CY	38,658	
203-I002	Site Grading	SY	3,112	
206-A001	Structure Excavation	CY	936	
209-A004	Geotextile Stabilization, Type V	SY	2,981	
209-A005	Geotextile Stabilization, Type V, Non-Woven	SY	26,270	
	EROSION CONTROL ITEMS			
213-C001	Superphosphate	TON	20	
216-A001	Solid Sodding	SY	1,032	
219-A001	Watering	KGAL	1,936	
220-A001	Insect Pest Control	ACRE	20	
221-A001	Concrete Paved Ditch	CY	1,156	
223-A001	Mowing	ACRE	1,000	
225-A001	Grassing	ACRE	20	
225-B001	Agricultural Limestone	TON	10	
225-C001	Mulch, Vegetative Mulch	TON	40	
226-A001	Temporary Grassing	ACRE	20	

- ① GUARDRAIL DESIGNATED FOR REMOVAL SHALL BE RETURNED TO MDOT. SEE GENERAL NOTES FOR DETAILS.
- ② ITEM INCLUDES ALL COSTS OF REMOVAL OF THE 1-20 WESTBOUND PRECAST CONCRETE MEDIAN BARRIER CURRENTLY IN PLACE AND DELIVERY TO MDOT. SEE GENERAL NOTES FOR DETAILS.
- ③ SEE BRIDGE PLANS FOR SUGGESTED DEMOLITION SEQUENCE;
SPANS: 1 @ 59', 1 @ 60', 2 @ 94', 1 @ 135', 3 @ 70', 3 @ 85', 1 @ 69'
INCLUDES 13 CY FOR PAVED FLUME
- ④ THE ESTIMATED ACREAGE FOR MOWING IS 100 ACRES. THE TOTAL IS BASED ON 5 MOWING CYCLES PER YEAR. THE NUMBER OF MOWING CYCLES REQUIRED WILL BE DETERMINED BY THE ENGINEER.
- ⑤ ESTIMATED QUANTITY TO USED AS DIRECTED BY THE ENGINEER
- ⑥ INCLUDES REMOVAL OF FLARED END SECTIONS
- ⑦ ITEM INCLUDES ALL COST OF REMOVING RETAINING WALL, FOOTINGS AND TIE BACKS.
- ⑧ TO BE USED FOR GRADING EXISTING RAILROAD DITCH TO DRAIN
- ⑨ INCLUDES 8658 CY FOR SLIDE REPAIR
- ⑩ INCLUDES 15,814 CY FOR SLIDE REPAIRS
- ⑪ INCLUDES 140 SY FOR SLIDE REPAIRS
- ⑫



CH	REVISED PAY ITEMS	10/17/2019
MS	REVISED PAY ITEMS	11/21/2019
BY	Revision	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES - PROJECT TOTALS
 FINAL PLANS

PROJ NO: BR-0020-01(216)/BR-0020-01(216)
 FMS: 105858-302000/105858-303000
 Working Number **SQ-8**

Design Team **HNTB** Checked **KBB** Date **11/21/2019**
 Sheet Number **30**

FILENAME: **SQS**

ADDENDUM


STATE	PROJECT NO.
MISS	BR-0020-01(216)/BR-0020-01(216)

SUMMARY OF QUANTITIES (SHEET 9)

PAY ITEM NO.	PAY ITEM	UNIT	Total Amount	
			Prelim	Final
234-A001	Temporary Silt Fence	LF	20,000	
234-D001	Inlet Siltation Guard	EA	40	
237-A002	Wattles, 20"	LF	2,000	
239-A001	Temporary Slope Drains	LF	500	
246-B001	Rockbags	EA	500	
249-A001	Riprap for Erosion Control	TON	1,000	
907-250-A001	Polyacrylamide (PAM)	LBS	200	
815-F002	Sediment Control Stone	TON	1,000	
	BASE ITEMS			
304-A004	Granular Material, LVM, Class 5, Group C	CY	6,900	
304-F001	3/4" and Down Crushed Stone Base	TON	9,300	
	OR			
304-F002	Size 610 Crushed Stone Base	TON	9,300	
	OR			
304-F003	Size 825B Crushed Stone Base	TON	9,300	
	SUBGRADE TREATMENT ITEMS			
307-C004	6" Soil-Lime-Water Mixing, Class C	SY	29,200	
307-D001	Lime	TON	216	
307-S001	Bituminous Curing Seal	GAL	7,300	
	OR			
308-A001	Cement	TON	136	
308-B003	Soil-Cement-Water Mixing, Optional Mixers, Design Soil	SY	29,200	
308-S001	Bituminous Curing Seal	GAL	7,300	
	PAVEMENT ITEMS			
402-A002	Open Graded Friction Course, 9.5-mm Mixture	TON	2,564	
402-B001	Bituminous Tack Coat	GAL	5,513	
403-A001	12.5-mm, HT, Asphalt Pavement	TON	811	
403-A003	12.5-mm, ST, Asphalt Pavement	TON	3,499	
403-A004	19-mm, HT, Asphalt Pavement	TON	2,089	
403-A006	19-mm, ST, Asphalt Pavement	TON	5,042	
403-A015	9.5-mm, ST, Asphalt Pavement	TON	1,205	
403-B012	9.5-mm, ST, Asphalt Pavement, Leveling	TON	48	
403-E004	9.5-mm, HT, Asphalt Pavement, Polymer Modified, Leveling	TON	1,150	
403-S001	Joint Sealant	MI	2	
405-A001	Stone Matrix Asphalt, 12.5 mm Mixture	TON	640	
405-A002	Stone Matrix Asphalt, 9.5 mm Mixture	TON	1,629	
406-A002	Cold Milling of Bituminous Pavement, All Depths	SY	19,711	
407-A001	Asphalt for Tack Coat	GAL	15,420	
423-A001	Rumble Strips, Ground In	MI	3	
502-A001	Reinforced Cement Concrete Bridge End Pavement	SY	430	
503-C010	Saw Cut, Full Depth	LF	14,545	

- ① INCLUDES 20% INCREASE FOR ESTIMATING PURPOSES
- ② QUANTITY ROUNDED TO THE NEAREST 50 OR 100 UNIT
- ③ ESTIMATED QUANTITY TO USED AS DIRECTED BY THE ENGINEER
- ④ FOR TREATMENT OF SUBGRADE.



	
MISSISSIPPI DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES - PROJECT TOTALS FINAL PLANS	
REVISION 11/21/2019	Working Number SQ-9
PROJ NO: BR-0020-01(216)/BR-0020-01(216) FMS: 105858-302000/105858-303000	
FILENAME: SQS Design Team HNTB Checked KEB Date 11/21/2019	
Sheet Number 31	

ADDENDUM


STATE	PROJECT NO.
MISS	BR-0020-01(216)/BR-0020-01(216)

SUMMARY OF QUANTITIES (SHEET 10)

PAY ITEM NO.	PAY ITEM	UNIT	Total Amount	
			Prelim	Final
	DRAINAGE ITEMS			
413-E001	Sawing and Sealing Transverse Joints in Asphalt Pavement	LF	40	
501-K001	Transverse Grooving	SY	394	
601-B001	Class "B" Structural Concrete, Minor Structures	CY	36	
602-A001	Reinforcing Steel	LBS	2,895	
603-CA003	15" Reinforced Concrete Pipe, Class III	LF	102	
603-CA011	18" Reinforced Concrete Pipe, Class III	LF	790	
603-CA013	18" Reinforced Concrete Pipe, Class IV	LF	84	
603-CA040	30" Reinforced Concrete Pipe, Class III	LF	158	
603-CB002	15" Reinforced Concrete End Section	EA	2	
603-CB003	18" Reinforced Concrete End Section	EA	4	
603-CB005	30" Reinforced Concrete End Section	EA	1	
604-B001	Gratings	LBS	4,864	
605-AA003	Geotextile for Subsurface Drainage, Type V, Non-Woven	SY	5,082	
605-O001	12" Perforated Sewer Pipe for Underdrains, SDR 35	LF	5,700	
605-O004	6" Perforated Sewer Pipe for Underdrains, SDR 23.5	LF	390	
605-P004	6" Non-perforated Sewer Pipe for Underdrains, SDR 23.5	LF	70	
605-T001	4" Perforated Pipe for Underdrains	LF	160	
605-U001	4" Non-perforated Pipe for Underdrains	LF	143	
605-W001	Filter Material for Combination Storm Drain and/or Underdrains, Type A, FM	CY	30	
605-W002	Filter Material for Combination Storm Drain and/or Underdrains, Type B, FM	CY	591	
605-W004	Filter Material for Combination Storm Drain and/or Underdrains, Type E, FM	CY	1,875	
613-D003	Adjustment of Inlet	EA	5	
	BARRIER ITEMS			
606-B001	Guard Rail, Class A, Type 1	LF	5,050	
606-C003	Guard Rail, Cable Anchor, Type 1	EA	1	
606-D020	Guard Rail, Bridge End Section, Type H, Metal Post	EA	4	
606-D023	Guard Rail, Bridge End Section, Type I, Metal Post	EA	17	
606-E005	Guard Rail, Terminal End Section, Flared	EA	5	
606-E007	Guard Rail, Terminal End Section, Non-Flared	EA	7	
607-B035	96" Type I Chain Link Fence, Class I	LF	94	
615-A003	Concrete Bridge End Barrier, 42"	LF	113	
615-A006	Concrete Pier Protection Barrier, 42"	LF	165	
615-A007	Concrete Pier Protection Barrier, 54"	LF	1,387	
615-A011	Concrete Type I Cast-in-Place Median Barrier, 42" High	LF	1,786	
615-A021	Concrete Type IV Cast-in-Place Median Barrier, 42" High	LF	5,501	
629-A002	Vehicular Impact Attenuator, 50 MPH	EA	1	
630-F006	Delineators, Guard Rail, White	EA	71	
630-F007	Delineators, Guard Rail, Yellow	EA	74	
	TRAFFIC CONTROL ITEMS			
618-A001	Maintenance of Traffic	LS	1	

- ① INCLUDES 34 CY FOR PIPE CULVERTS AND 2 CY FOR PERMANENT SIGNS
- ② LENGTH OF REQUIRED GUARD RAIL IS BASED ON A TERMINAL END SECTION OF 37.5'. FOR ANY OTHER LENGTH OF TERMINAL SECTION, THE LENGTH OF NORMAL GUARD RAIL WILL BE ADJUSTED.
- ③ INCLUDES 230 LBS FOR PERMANENT SIGNS & 2665 LBS FOR DRAINAGE ITEMS
- ④ ITEM TO INCLUDE ALL MATERIALS REQUIRED FOR INLET ADJUSTMENTS.
- ⑤ INCLUDES 23 CY FOR SLIDE REPAIRS



CH	10/17/2019	REVISED PAY ITEMS
DATE	Revision	FINAL PLANS
 MISSISSIPPI DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES - PROJECT TOTALS		
PROJ NO: BR-0020-01(216)/BR-0020-01(216)		Working Number
FMS: 105858-302000/105858-303000		SQ-10
FILENAME: SQS	Checked: KEB	Sheet Number
Design Team: HNTB	Date: 11/21/201	32

ADDENDUM

STATE	PROJECT NO.
MISS	BR-0020-01(216)/BR-0020-01(216)

SUMMARY OF QUANTITIES (SHEET 11)


PAY ITEM NO.	PAY ITEM	UNIT	Total Amount	
			Prelim	Final
619-A1004	Temporary Traffic Stripe, Continuous White, Paint	MI	2	
619-A2004	Temporary Traffic Stripe, Continuous Yellow, Paint	MI	3	
619-A3003	Temporary Traffic Stripe, Skip White, Paint	MI	3	
619-A5002	Temporary Traffic Stripe, Detail, Paint	LF	2,700	
619-A6001	Temporary Traffic Stripe, Legend	SF	240	
619-C6001	Red-Clear Reflective High Performance Raised Marker	EA	1,824	A
619-C9001	One-Way Yellow Reflective High Performance Raised Marker	EA	240	A
619-D1001	Standard Roadside Construction Signs, Less than 10 Square Feet	SF	540	
619-D2001	Standard Roadside Construction Signs, 10 Square Feet or More	SF	2,324	
619-D3001	Remove and Reset Signs, All Sizes	EA	110	
619-D4001	Directional Signs	SF	1,821	
619-E1001	Flashing Arrow Panel, Type C	EA	3	A
907-619-E3001	Changeable Message Sign	EA	4	2
619-F1001	Concrete Median Barrier, Precast	LF	11,263	
619-F1004	Portable Median Barrier, 60 MPH	LF	200	
619-F2001	Remove and Reset Concrete Median Barrier, Precast	LF	12,571	
619-G4005	Barricades, Type III, Single Faced	LF	144	3
619-G5001	Free Standing Plastic Drums	EA	86	A
619-G7001	Warning Lights, Type "B"	EA	22	
619-J1004	Impact Attenuator, 60 MPH	EA	7	
619-J2004	Impact Attenuator, 60 MPH, Replacement Package	EA	4	
619-J3001	Remove and Reset Impact Attenuator	EA	13	
619-A1005	Temporary Traffic Stripe, Continuous White, Type 1 Tape	LF	655	A
619-A2006	Temporary Traffic Stripe, Continuous Yellow, Type 1 Tape	LF	908	A
620-A001	GENERAL ITEMS			
620-A001	Mobilization	LS	1	
699-A001	Roadway Construction Stakes	LS	1	
626-A001	PAVEMENT MARKING ITEMS			
626-C002	6" Thermoplastic Double Drop Traffic Stripe, Skip White	MI	3	
626-F001	6" Thermoplastic Double Drop Edge Stripe, Continuous White	MI	3	
626-G004	6" Thermoplastic Double Drop Edge Stripe, Continuous Yellow	MI	3	
626-G005	Thermoplastic Double Drop Detail Stripe, White	LF	10,899	
626-H001	Thermoplastic Double Drop Detail Stripe, Yellow	LF	623	
907-626-U003	Thermoplastic Double Drop Legend, White	SF	80	
907-626-V003	6" Thermoplastic Traffic Stripe, Skip White, 40-mil min.	MI	8	1
907-626-X003	6" Thermoplastic Traffic Stripe, Continuous White, 40-mil min.	MI	6	1
907-626-Y002	6" Thermoplastic Traffic Stripe, Continuous Yellow, 40-mil min.	MI	6	1
907-626-Y004	Thermoplastic Detail Traffic Stripe, White, 6" Equivalent Length, 40-mil. min.	LF	13,691	1
627-K001	Thermoplastic Detail Traffic Stripe, Yellow, 6" Equivalent Length, 40-mil. min.	LF	257	1
	Red-Clear Reflective High Performance Raised Markers	EA	841	

- ① ITEM TO BE USED AS TEMPORARY TRAFFIC STRIPE
- ② ITEM TO BE USED AS SHOWN OR AS DIRECTED BY THE ENGINEER
- ③ PORTABLE BARRIER TO BE USED AS DIRECTED BY THE ENGINEER



10/17/2019	REVISED PAY ITEMS	CH
11/21/2019	REVISED PAY ITEMS	MS
	Revision	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES - PROJECT TOTALS
 FINAL PLANS




PROJ NO: BR-0020-01(216)/BR-0020-01(216) Working Number
 FMS: 105858-302000/105858-303000 SQ-11
 FILENAME: SQS Sheet Number
 Design Team HNTB Checked KEB Date 11/21/2019 33

ADDENDUM

STATE	PROJECT NO.
MISS	BR-0020-01(216)/BR-0020-01(216)

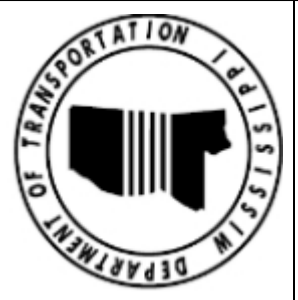
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			Prelim	Final
	SIGNING ITEMS			
630-B002	Interstate Directional Signs, Bolted Extruded Aluminum Panels, Ground Mounted	SF	114	
630-B003	Interstate Directional Signs, Bolted Extruded Aluminum Panels, Overhead Mounted	SF	1,020	
630-C003	Steel U-Section Posts, 3.0 lb/ft	LF	70	
630-D007	Structural Steel Beams, W6 x 15	LF	43	
630-D008	Structural Steel Beams, W6 x 9	LF	29	
630-E001	Structural Steel Angles & Bars, 3 1/2" x 3 1/2" x 1/4" Angles	LBS	53	
630-E002	Structural Steel Angles & Bars, 3" x 3" x 1/4" Angles	LBS	22	
630-G004	Type 3 Object Markers, OM-3R or OM-3L	EA	5	
630-I003	Metal Overhead Sign Supports, Assembly No. 1, Contractor Designed	LS	1	
630-I015	Metal Overhead Sign Supports, Assembly No. 2, Contractor Designed	LS	1	
630-I020	Metal Overhead Sign Supports, Assembly No. 3, Contractor Designed	LS	1	
907-630-O004	Remove and Reset Sign, All Sizes	EA	16	
	ITS ITEMS			
907-632-B007	Remove and Replace Existing Traffic Signal Cabinet Assembly, Type III Cabinet, Type 1 Controller	EA	1	
907-634-E001	Camera Pole with Foundation, 50' Pole	EA	2	
907-634-F002	Detector Pole with Foundation, 35' Pole	EA	1	
907-634-I001	Wood Pole, Class II Height 40'	EA	3	
907-634-K001	Camera Lowering Device	EA	1	
907-636-B042	Electric Cable, Underground in Conduit, THHN, AWG #2, 3 Conductor	LF	2,260	
907-636-D018	Electric Cable, Aerial Supported in Conduit, THHN, AWG #2, 3 Conductor	LF	11,565	
907-636-E001	Electric Cable, Underground in Conduit, Tracer Cable	LF	22,760	
907-637-A002	Pullbox Enclosure, Type 2	EA	15	
907-637-A004	Pullbox Enclosure, Type 4	EA	20	
907-637-A005	Pullbox Enclosure, Type 5	EA	18	
907-637-B001	Pull Box Enclosure, Structure Mounted, Type 1	EA	8	
907-637-H001	Traffic Signal Conduit Bank, Underground, Rolled Pipe, 2 @ 2"	LF	8,700	
907-637-H002	Traffic Signal Conduit Bank, Underground, Rolled Pipe, 2"	LF	330	
907-637-H003	Traffic Signal Conduit Bank, Underground, Rolled Pipe, 3 @ 2"	LF	3,670	
907-637-I001	Traffic Signal Conduit Bank, Underground, Drilled or Jacked, Rolled Pipe, 2 @ 2"	LF	8,815	
907-637-I002	Traffic Signal Conduit Bank, Underground, Drilled or Jacked, Rolled Pipe, 2"	LF	495	
907-637-I003	Traffic Signal Conduit Bank, Underground, Drilled or Jacked, Rolled Pipe, 3 @ 2"	LF	750	
907-637-K001	Traffic Signal Conduit Bank, Aerial Supported, Type 1, 2 @ 2"	LF	3,245	
907-637-K002	Traffic Signal Conduit Bank, Aerial Supported, Type 1, 3 @ 2"	LF	700	
907-641-C001	ITS Radar Detection Sensor	EA	1	
907-650-A002	On Street Video Equipment, Fixed Type	EA	9	
907-650-A003	On Street Video Equipment, PTZ Type	EA	3	
907-659-A001	Traffic Management Center Modifications	LS	1	
660-A003	Equipment Cabinet, Type B	EA	4	
660-B001	Cabinet Modifications	EA	2	
907-661-A004	Fiber Optic Cable, 72 SM	LF	20,510	
907-661-A006	Fiber Optic Cable, Aerial, 72 SM	LF	4,490	
907-661-B002	Fiber Optic Drop Cable, 12 SM	LF	2,535	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
SUMMARY OF QUANTITIES - PROJECT TOTALS	
	
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FMS: 105858-302000/105858-303000	
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Design Team HNTB	34
Checked KEB	Date 11/21/201

ADDENDUM

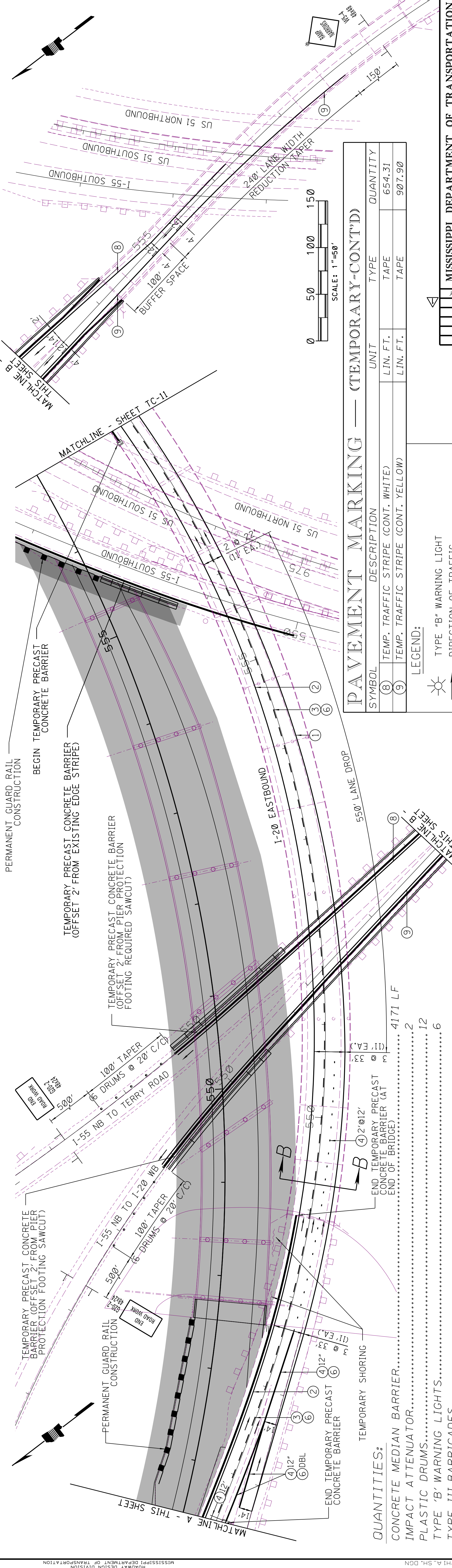
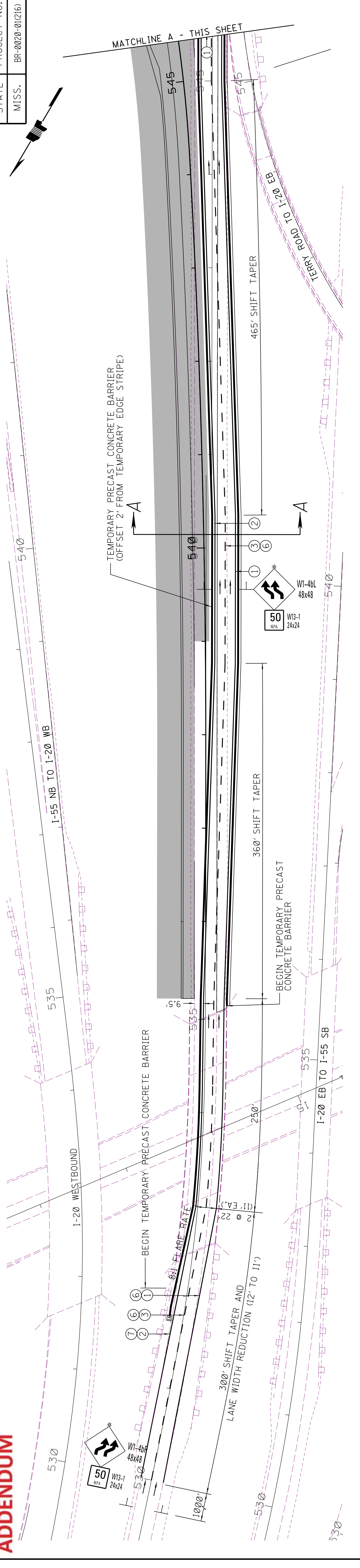
STATE	PROJECT NO.
MISS	BR-0020-01(216)/BR-0020-01(216)

PAY ITEM NO.	PAY ITEM	UNIT	Total Amount	
			Prelim	Final
907-663-A001	Network Switch, Type A	EA	5	
907-663-A003	Network Switch, Type C	EA	2	
907-663-D001	Category 6 Cable, Installed in Conduit	LF	1,000	
907-664-D001	Communications Node Modifications	EA	2	
907-672-B002	Remove and Reset ITS Equipment	EA	4	
	LIGHTING ITEMS			
682-A018	Underground Branch Circuit, AWG 2, 3 Conductor	LF	750	
907-682-A1019	Branch Circuit Wire, AWG #4, 3 Conductor	LF	530	
682-B016	Underground Branch Circuit, Jacked or Bored, AWG 2, 3 Conductor	LF	370	
682-D003	Underground Pull Box	EA	1	
682-E002	Underground Junction Box	EA	3	
683-B195	Lighting Assembly, Low Mast, LED, Type 40-1-15-171	EA	1	
684-A003	Pole Foundation, 24" Diameter	CY	1	
684-A006	Pole Foundation, 42" Diameter	CY	8	
686-A001	Relocation of Existing Lighting Assemblies	EA	1	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
SUMMARY OF QUANTITIES - PROJECT TOTALS	
FINAL PLANS	
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FILENAME: SQS	Sheet Number
Design Team HNTB	Checked KPB Date 11/21/201
	35

STATE	PROJECT NO.
MISS.	BR-0020-01(216)

ADDENDUM



PAVEMENT MARKING — (TEMPORARY-CONT'D)

SYMBOL	DESCRIPTION	UNIT	TYPE	QUANTITY
(8)	TEMP. TRAFFIC STRIPE (CONT. WHITE)	LIN. FT.	TAPE	654.31
(9)	TEMP. TRAFFIC STRIPE (CONT. YELLOW)	LIN. FT.	TAPE	907.90

LEGEND:

- TYPE "B" WARNING LIGHT
- DIRECTION OF TRAFFIC
- FLASHING ARROW PANEL (TYPE "C")
- TEMPORARY TRAFFIC CONTROL SIGN
- REFLECTORIZED FREE-STANDING PLASTIC DRUM
- TEMPORARY PRECAST CONCRETE BARRIER
- IMPACT ATTENUATOR
- TYPE III BARRICADE
- CONSTRUCTION THIS PHASE

PAVEMENT MARKING — (TEMPORARY)

SYMBOL	DESCRIPTION	UNIT	TYPE	QUANTITY	TYPE	SIZE	QTY
(1)	TEMP. TRAFFIC STRIPE (CONT. WHITE)	LIN. FT.	40 mil. THERMO	3452.51	W1-4bR	48x48	2
(2)	TEMP. TRAFFIC STRIPE (CONT. YELLOW)	LIN. FT.	40 mil. THERMO	3692.55	W13-1	24x24	4
(3)	TEMP. TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	40 mil. THERMO	2797.92	G20-2	48x24	4
(4)	TEMP. TRAFFIC STRIPE (DETAIL WHITE)	LIN. FT.	40 mil. THERMO	302.99	W5-4	48x48	2
(5)	TEMP. TRAFFIC STRIPE (DETAIL YELLOW)	LIN. FT.	40 mil. THERMO	122	W1-4bL	48x48	2
(6)	RED-CLEAR REFLECT. RAISED PAVEMENT MARKER	EACH					
(7)	ONE-WAY YELLOW REFLECT. RAISED PAVEMENT MARKER	EACH		24			

QUANTITIES:

CONCRETE MEDIUM BARRIER..... 4171 LF

IMPACT ATTENUATOR..... 2

PLASTIC DRUMS..... 12

TYPE "B" WARNING LIGHTS..... 12

TYPE III BARRICADES..... 6

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL PLAN

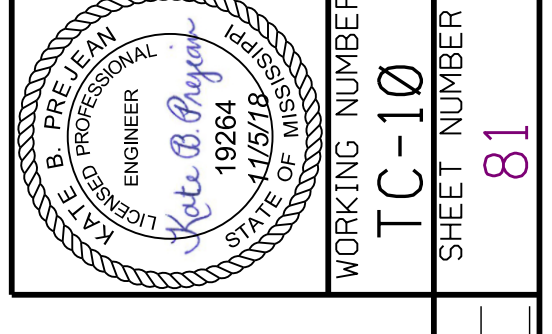
PHASE 1A
B.O.P. TO STA. 557+00

COUNTY: HINDS
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 DATE: 11-5-18

DESIGN TEAM: HNTB
 CHECKED: KBP

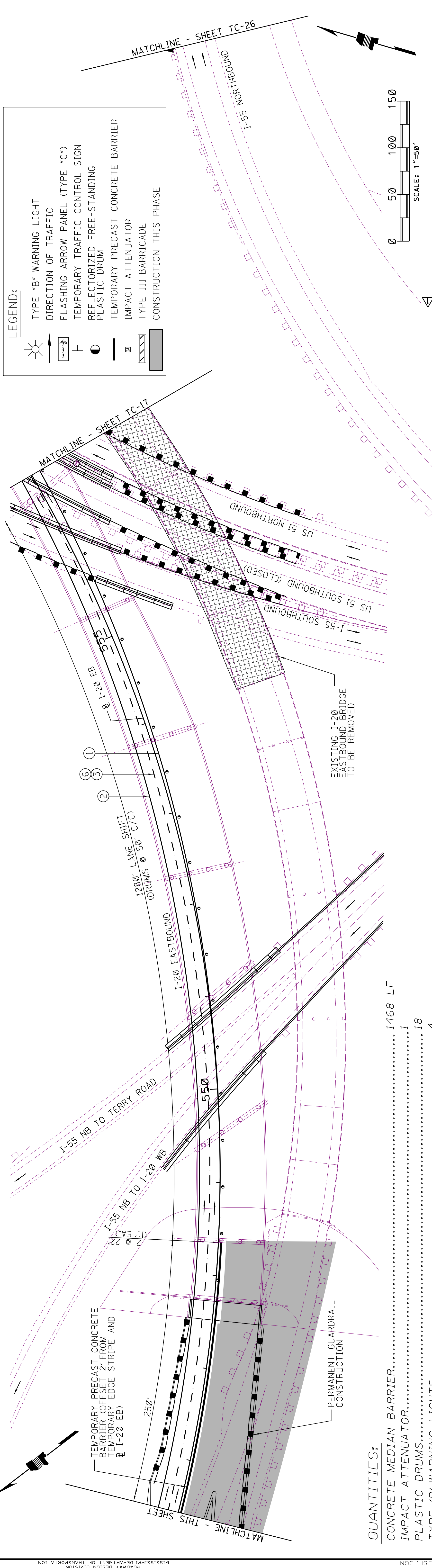
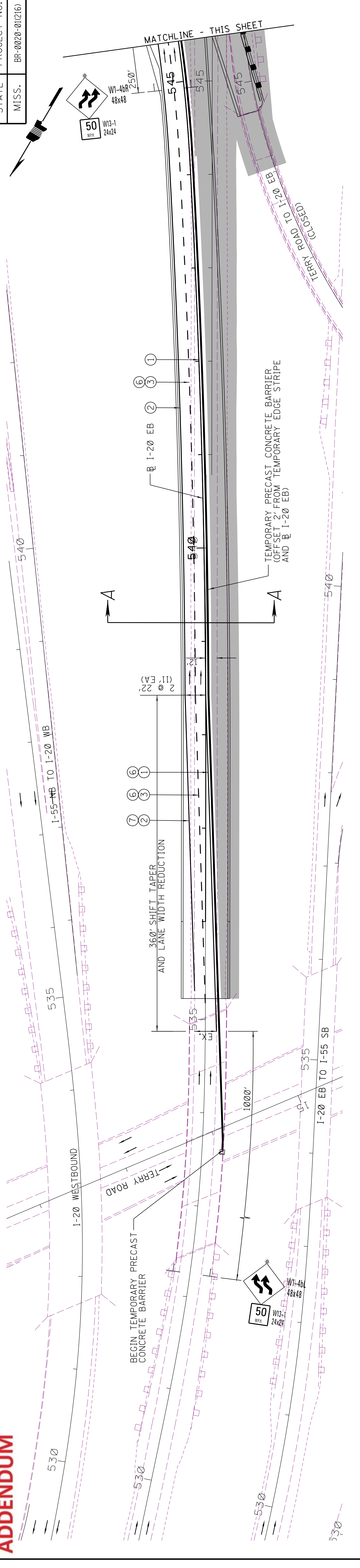
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 SHEET NUMBER: 81

REVISIONS:
 BY: KBP
 DATE: 11/22/19
 NOTE REMOVED



STATE	MISS.
PROJECT NO.	BR-0020-01(216)

ADDENDUM



LEGEND:

- TYPE "B" WARNING LIGHT
- DIRECTION OF TRAFFIC
- FLASHING ARROW PANEL (TYPE "C")
- TEMPORARY TRAFFIC CONTROL SIGN
- REFLECTORIZED FREE-STANDING PLASTIC DRUM
- TEMPORARY PRECAST CONCRETE BARRIER
- IMPACT ATTENUATOR
- TYPE III BARRICADE
- CONSTRUCTION THIS PHASE

QUANTITIES:

CONCRETE MEDIUM BARRIER.....	1468 LF
IMPACT ATTENUATOR.....	1
PLASTIC DRUMS.....	18
TYPE "B" WARNING LIGHTS.....	4
TYPE III BARRICADES.....	.....

PAVEMENT MARKING — (TEMPORARY)

SYMBOL	DESCRIPTION	UNIT	TYPE	QUANTITY	SIGNING — (Temp.)	
					TYPE	QTY
(1)	TEMP. TRAFFIC STRIPE (CONT. WHITE)	LIN. FT.	40 mil. THERMO	2219.74	W1-4bR	48x48
(2)	TEMP. TRAFFIC STRIPE (CONT. YELLOW)	LIN. FT.	40 mil. THERMO	2156.49	W1-4bL	48x48
(3)	TEMP. TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	40 mil. THERMO	2195.04	W13-1	24x24
(4)	TEMP. TRAFFIC STRIPE (DETAIL WHITE)	LIN. FT.	40 mil. THERMO	.....	.....	.....
(5)	TEMP. TRAFFIC STRIPE (DETAIL YELLOW)	LIN. FT.	40 mil. THERMO	70	.....	.....
(6)	RED-CLEAR REFLECT. RAISED PAVEMENT MARKER	EACH	.....	.....	.....	.....
(7)	ONE-WAY YELLOW REFLECT. RAISED PAVEMENT MARKER	EACH	.....	13	.....	.....

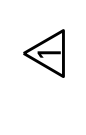
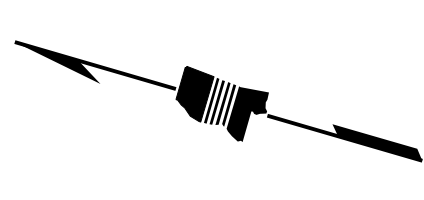
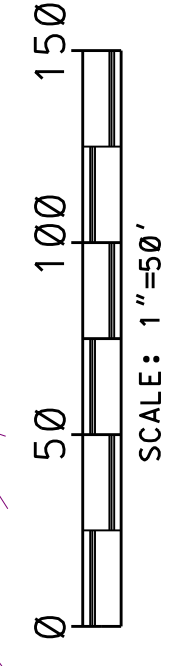
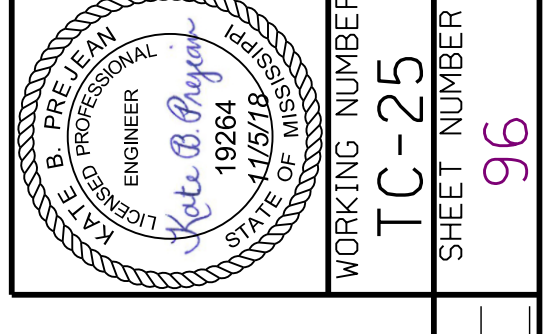
PAVEMENT MARKING — (TEMPORARY)

SYMBOL	DESCRIPTION	UNIT	TYPE	QUANTITY	SIGNING — (Temp.)	
					TYPE	QTY
(1)	TEMP. TRAFFIC STRIPE (CONT. WHITE)	LIN. FT.	40 mil. THERMO	2219.74	W1-4bR	48x48
(2)	TEMP. TRAFFIC STRIPE (CONT. YELLOW)	LIN. FT.	40 mil. THERMO	2156.49	W1-4bL	48x48
(3)	TEMP. TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	40 mil. THERMO	2195.04	W13-1	24x24
(4)	TEMP. TRAFFIC STRIPE (DETAIL WHITE)	LIN. FT.	40 mil. THERMO	.....	.....	.....
(5)	TEMP. TRAFFIC STRIPE (DETAIL YELLOW)	LIN. FT.	40 mil. THERMO	70	.....	.....
(6)	RED-CLEAR REFLECT. RAISED PAVEMENT MARKER	EACH	.....	.....	.....	.....
(7)	ONE-WAY YELLOW REFLECT. RAISED PAVEMENT MARKER	EACH	.....	13	.....	.....

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL PLAN
PHASE 2A
B.O.P. TO STA. 557+00
 COUNTY: HINDS
 PROJ. NO.: BR-0020-01(216)
 WORKING NUMBER: TC-25
 SHEET NUMBER: 96

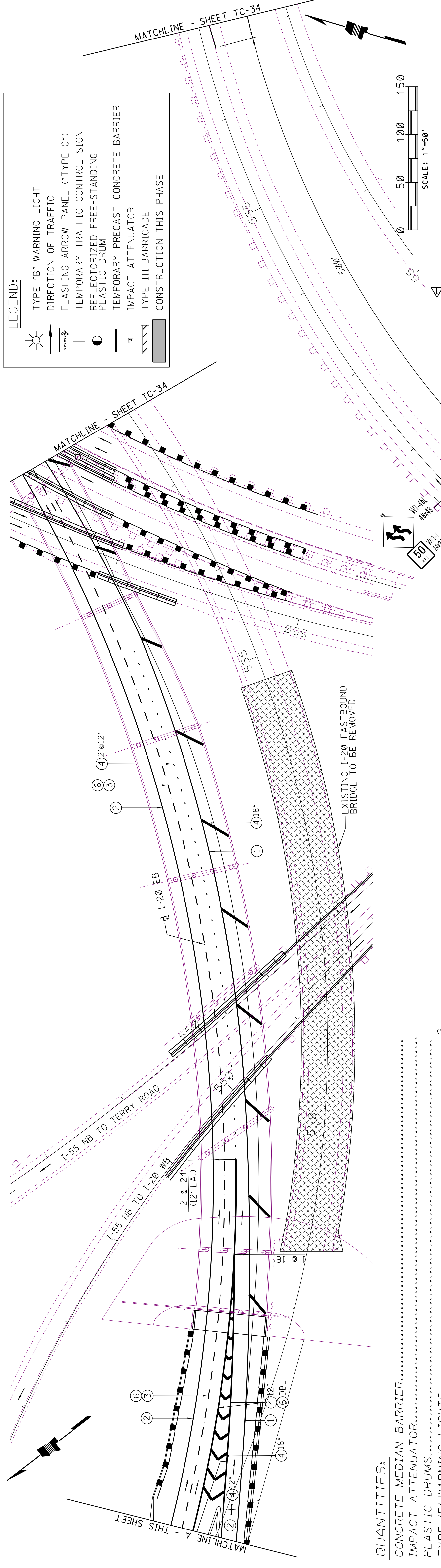
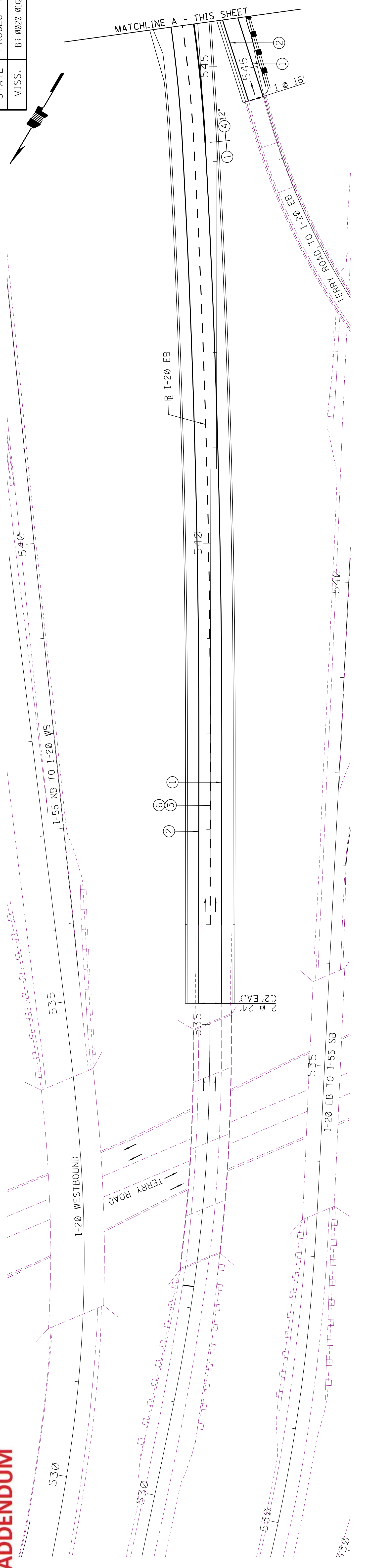
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 DESIGN TEAM: HNTB
 CHECKED: KBP
 DATE: 11-5-18

11/22/19
 DATE: 11-5-18



ADDENDUM

STATE	PROJECT NO.
MISS.	BR-0020-01(216)



LEGEND:

	TYPE "B" WARNING LIGHT
	DIRECTION OF TRAFFIC
	FLASHING ARROW PANEL ("TYPE C")
	TEMPORARY TRAFFIC CONTROL SIGN
	REFLECTORIZED FREE-STANDING PLASTIC DRUM
	TEMPORARY PRECAST CONCRETE BARRIER
	IMPACT ATTENUATOR
	TYPE III BARRICADE
	CONSTRUCTION THIS PHASE

QUANTITIES:

CONCRETE MEDIAN BARRIER.....	.....
IMPACT ATTENUATOR.....	.....
PLASTIC DRUMS.....	.....
TYPE "B" WARNING LIGHTS.....	.....
TYPE III BARRICADES.....	.....

PAVEMENT MARKING — (TEMPORARY)

SYMBOL	DESCRIPTION	UNIT	TYPE	QUANTITY	TYPE	SIZE	QTY
(1)	TEMP. TRAFFIC STRIPE (CONT. WHITE)	LIN. FT.	40 mil. THERMO	2089.49	W1-4BL	48x48	2
(2)	TEMP. TRAFFIC STRIPE (CONT. YELLOW)	LIN. FT.	40 mil. THERMO	2208.22	W13-1	24x24	2
(3)	TEMP. TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	40 mil. THERMO	2100.00			
(4)	TEMP. TRAFFIC STRIPE (DETAIL WHITE)	LIN. FT.	40 mil. THERMO	1826.83			
(5)	TEMP. TRAFFIC STRIPE (DETAIL YELLOW)	LIN. FT.	40 mil. THERMO				
(6)	RED-CLEAR REFLECT. RAISED PAVEMENT MARKER	EACH		104			
(7)	ONE-WAY YELLOW REFLECT. RAISED PAVEMENT MARKER	EACH					

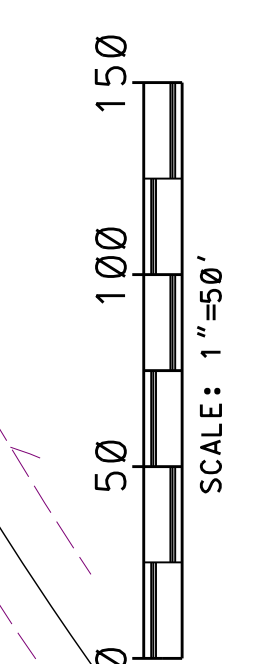
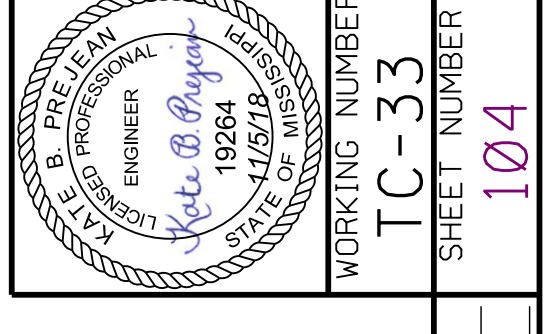
SIGNING — (Temp.)

SYMBOL	DESCRIPTION	UNIT	TYPE	QUANTITY	TYPE	SIZE	QTY
(1)	TEMP. TRAFFIC STRIPE (CONT. WHITE)	LIN. FT.	40 mil. THERMO	2089.49	W1-4BL	48x48	2
(2)	TEMP. TRAFFIC STRIPE (CONT. YELLOW)	LIN. FT.	40 mil. THERMO	2208.22	W13-1	24x24	2
(3)	TEMP. TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	40 mil. THERMO	2100.00			
(4)	TEMP. TRAFFIC STRIPE (DETAIL WHITE)	LIN. FT.	40 mil. THERMO	1826.83			
(5)	TEMP. TRAFFIC STRIPE (DETAIL YELLOW)	LIN. FT.	40 mil. THERMO				
(6)	RED-CLEAR REFLECT. RAISED PAVEMENT MARKER	EACH		104			
(7)	ONE-WAY YELLOW REFLECT. RAISED PAVEMENT MARKER	EACH					

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL PLAN
PHASE 2B
B.O.P. TO STA. 557+00
 COUNTY: HINDS
 PROJ. NO.: BR-0020-01(216)
 FILENAME: TC-33 PH2B SH.DGN
 DESIGN TEAM: HNTB
 CHECKED: KRP
 DATE: 11-5-18

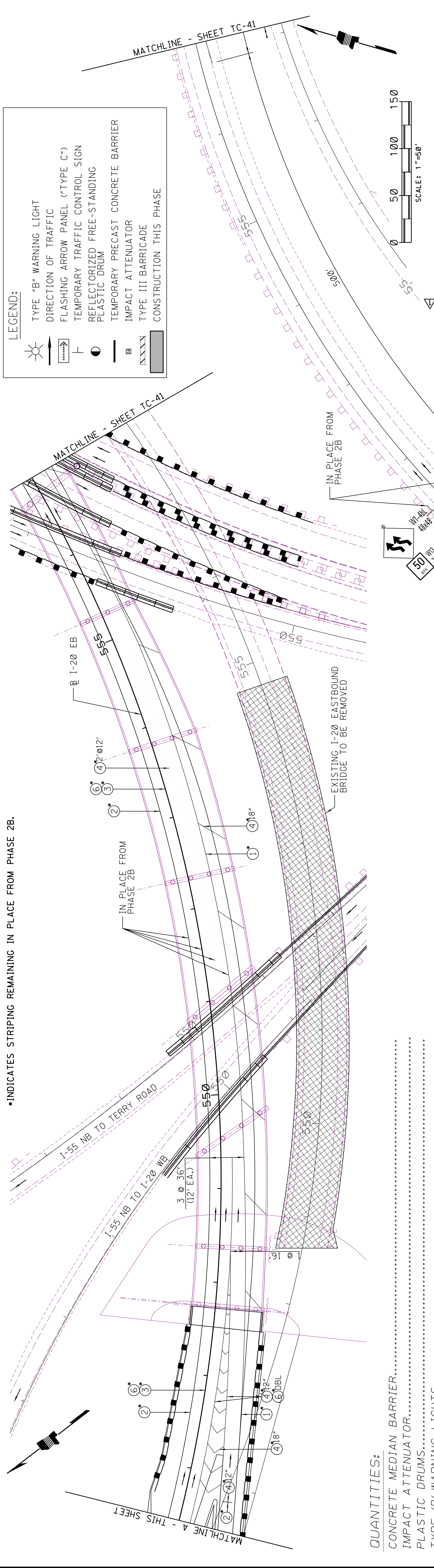
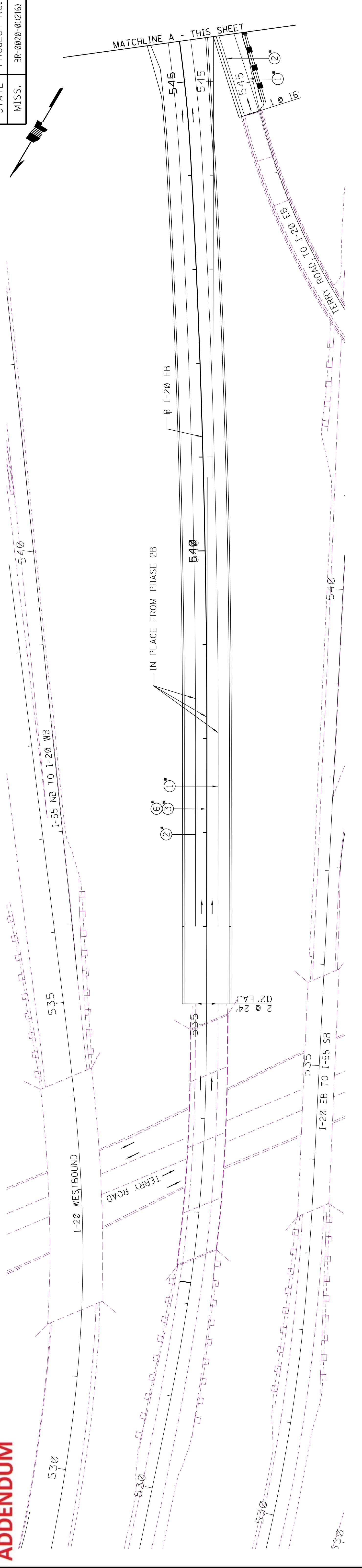
WORKING NUMBER: **TC-33**
 SHEET NUMBER: **104**

11/22/19
 DATE
 BY
 REVISION
 NOTE REMOVED



STATE	PROJECT NO.
MISS.	BR-0020-01(216)

ADDENDUM



• INDICATES STRIPING REMAINING IN PLACE FROM PHASE 2B.

LEGEND:

	TYPE "B" WARNING LIGHT
	DIRECTION OF TRAFFIC
	FLASHING ARROW PANEL ("TYPE C")
	TEMPORARY TRAFFIC CONTROL SIGN
	REFLECTORIZED FREE-STANDING PLASTIC DRUM
	TEMPORARY PRECAST CONCRETE BARRIER
	IMPACT ATTENUATOR
	TYPE III BARRICADE
	CONSTRUCTION THIS PHASE

QUANTITIES:

CONCRETE MEDIAN BARRIER.....	.....
IMPACT ATTENUATOR.....	.....
PLASTIC DRUMS.....	.....
TYPE "B" WARNING LIGHTS.....	.....
TYPE III BARRICADES.....	.....

PAVEMENT MARKING — (TEMPORARY)

SYMBOL	DESCRIPTION	UNIT	TYPE	QUANTITY	TYPE	SIZE	QTY
(1)	TEMP. TRAFFIC STRIPE (CONT. WHITE)	LIN. FT.	40 mil. THERMO				
(2)	TEMP. TRAFFIC STRIPE (CONT. YELLOW)	LIN. FT.	40 mil. THERMO				
(3)	TEMP. TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	40 mil. THERMO				
(4)	TEMP. TRAFFIC STRIPE (DETAIL WHITE)	LIN. FT.	40 mil. THERMO				
(5)	TEMP. TRAFFIC STRIPE (DETAIL YELLOW)	LIN. FT.	40 mil. THERMO				
(6)	RED-CLEAR REFLECT. RAISED PAVEMENT MARKER	EACH					
(7)	ONE-WAY YELLOW REFLECT. RAISED PAVEMENT MARKER	EACH					

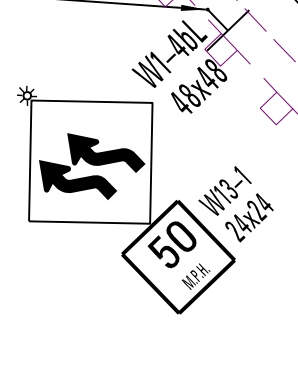
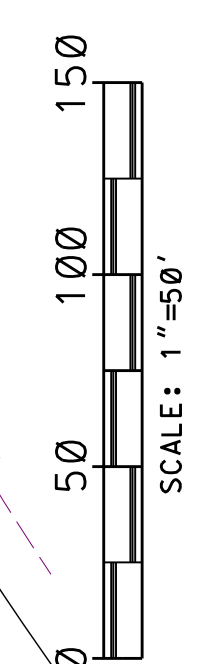
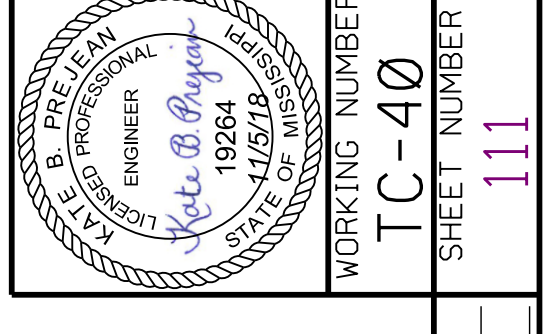
SIGNING — (TEMP.)

SYMBOL	DESCRIPTION	UNIT	TYPE	QUANTITY	TYPE	SIZE	QTY
(1)	TYPE III BARRICADE	EACH					
(2)	REFLECTORIZED FREE-STANDING PLASTIC DRUM	EACH					
(3)	TEMPORARY TRAFFIC CONTROL SIGN	EACH					
(4)	IMPACT ATTENUATOR	EACH					
(5)	TEMPORARY PRECAST CONCRETE BARRIER	LINEAL FT.					

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL PLAN
PHASE 2C
B.O.P. TO STA. 557+00
 COUNTY: HINDS
 PROJ. NO.: BR-0020-01(216)
 FILENAME: TC-40 PH2C SH.DGN
 DESIGN TEAM: HNTB
 CHECKED: KBP
 DATE: 11-5-18

11/22/19
 DATE
 BY
 REVISION
 NOTE REMOVED

WORKING NUMBER
TC-40
 SHEET NUMBER
111

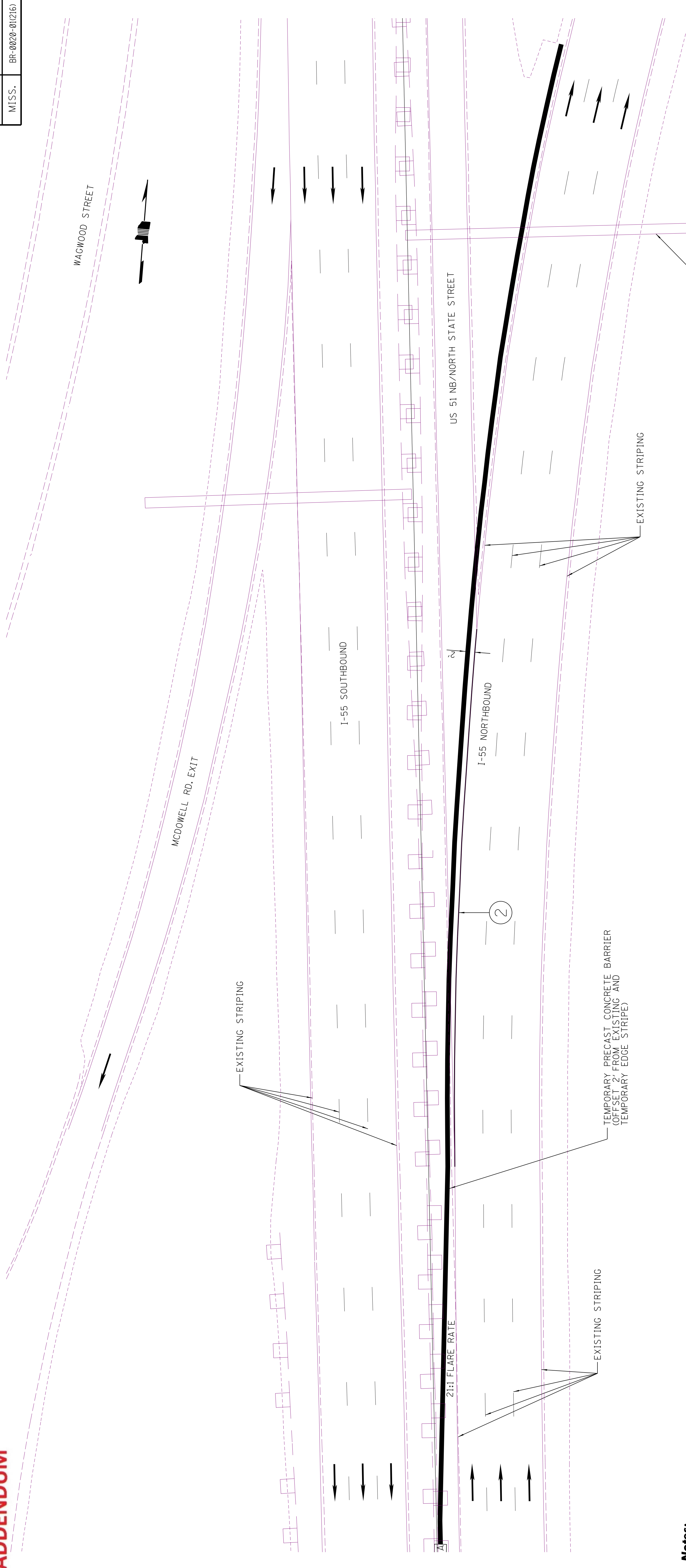


IN PLACE FROM PHASE 2B

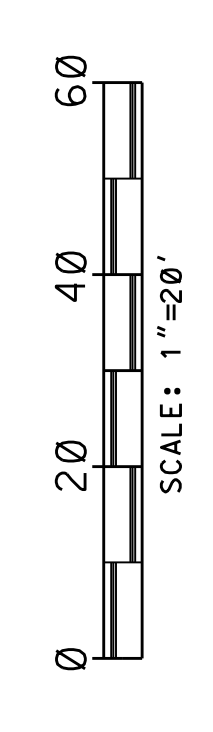
EXISTING I-20 EASTBOUND BRIDGE TO BE REMOVED

ADDENDUM

STATE	PROJECT NO.
MISS.	BR-0020-01(216)



COVER US 51 NB/STATE STREET OVERHEAD SIGN BY APPROVED METHODS (COST TO BE ABSORBED IN MAINTENANCE OF TRAFFIC)



Notes:

- FOR TEMPORARY TRAFFIC CONTROL FOR THIS PHASE, SEE TC SHEETS.
- FOR DETOUR ROUTE FOR US 51 NORTHBOUND CLOSURE, SEE DRP SHEETS.

QUANTITIES:

CONCRETE MEDIUM BARRIER.....	639 LF
IMPACT ATTENUATOR.....	1
PLASTIC DRUMS.....	
TYPE 'B' WARNING LIGHTS.....	
TYPE III BARRICADES.....	

PAVEMENT MARKING — (TEMPORARY)

SYMBOL	DESCRIPTION	UNIT	TYPE	QUANTITY	TYPE	SIZE	QTY
(1)	TEMP. TRAFFIC STRIPE (CONT. WHITE)	LIN. FT.	40 mil. THERMO				
(2)	TEMP. TRAFFIC STRIPE (CONT. YELLOW)	LIN. FT.	40 mil. THERMO	228.12			
(3)	TEMP. TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	40 mil. THERMO				
(4)	TEMP. TRAFFIC STRIPE (DETAIL WHITE)	LIN. FT.	40 mil. THERMO				
(5)	TEMP. TRAFFIC STRIPE (DETAIL YELLOW)	LIN. FT.	40 mil. THERMO				
(6)	RED-CLEAR REFLECT. RAISED PAVEMENT MARKER	EACH					
(7)	ONE-WAY YELLOW REFLECT. RAISED PAVEMENT MARKER	EACH					

SIGNING — (TEMP.)

SYMBOL	DESCRIPTION	UNIT	TYPE	QUANTITY	TYPE	SIZE	QTY
(1)	TYPE 'B' WARNING LIGHT						
(2)	DIRECTION OF TRAFFIC						
(3)	FLASHING ARROW PANEL ("TYPE C")						
(4)	TEMPORARY TRAFFIC CONTROL SIGN						
(5)	REFLECTORIZED FREE-STANDING PLASTIC DRUM						
(6)	TEMPORARY PRECAST CONCRETE BARRIER						
(7)	IMPACT ATTENUATOR						
(8)	TYPE III BARRICADE						
(9)	CONSTRUCTION THIS PHASE						

LEGEND:

	TYPE "B" WARNING LIGHT
	DIRECTION OF TRAFFIC
	FLASHING ARROW PANEL ("TYPE C")
	TEMPORARY TRAFFIC CONTROL SIGN
	REFLECTORIZED FREE-STANDING PLASTIC DRUM
	TEMPORARY PRECAST CONCRETE BARRIER
	IMPACT ATTENUATOR
	TYPE III BARRICADE
	CONSTRUCTION THIS PHASE

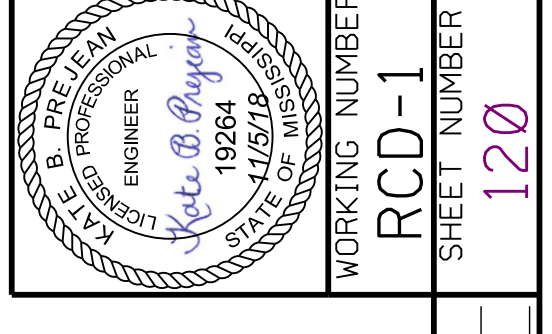
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
RAMP CLOSURE DETAIL

EXIT 92B TO US 51 NORTH (CLOSED)

COUNTY: HINDS
 PROJ. NO.: BR-0020-01(216)

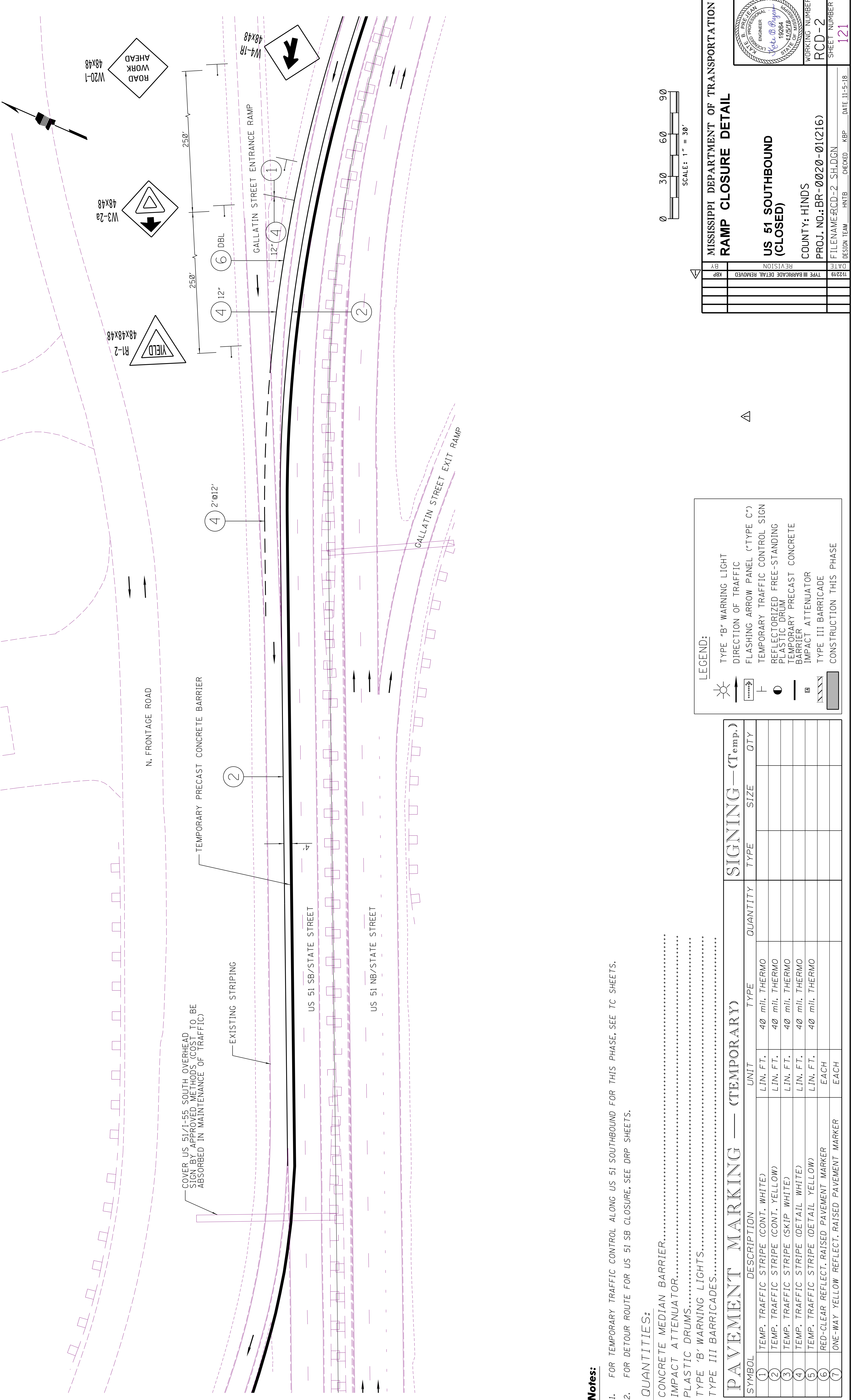
WORKING NUMBER: RCD-1
 SHEET NUMBER: 120

DATE: 11/22/19
 BY: KRP
 REVISION: HNTB
 FILENAME: RCD-1_S1.DGN
 DESIGN TEAM: HNTB
 CHECKED: KRP
 DATE: 11-5-18



ADDENDUM

STATE	PROJECT NO.
MISS.	BR-0020-01(216)



COVER US 51/1-55 SOUTH OVERHEAD SIGN BY APPROVED METHODS (COST TO BE ABSORBED IN MAINTENANCE OF TRAFFIC)

EXISTING STRIPING

TEMPORARY PRECAST CONCRETE BARRIER

US 51 SB/STATE STREET

US 51 NB/STATE STREET

GALLATIN STREET EXIT RAMP

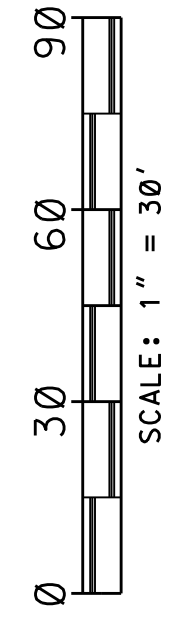
GALLATIN STREET ENTRANCE RAMP

- Notes:**
- FOR TEMPORARY TRAFFIC CONTROL ALONG US 51 SOUTHBOUND FOR THIS PHASE, SEE TC SHEETS.
 - FOR DETOUR ROUTE FOR US 51 SB CLOSURE, SEE DRP SHEETS.
- QUANTITIES:**
- CONCRETE MEDIAN BARRIER.....
- IMPACT ATTENUATOR.....
- PLASTIC DRUMS.....
- TYPE 'B' WARNING LIGHTS.....
- TYPE III BARRICADES.....

PAVEMENT MARKING — (TEMPORARY)		SIGNING — (Temp.)				
SYMBOL	DESCRIPTION	UNIT	QUANTITY	TYPE	SIZE	QTY
(1)	TEMP. TRAFFIC STRIPE (CONT. WHITE)	LIN. FT.	40	mil. THERMO		
(2)	TEMP. TRAFFIC STRIPE (CONT. YELLOW)	LIN. FT.	40	mil. THERMO		
(3)	TEMP. TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	40	mil. THERMO		
(4)	TEMP. TRAFFIC STRIPE (DETAIL WHITE)	LIN. FT.	40	mil. THERMO		
(5)	TEMP. TRAFFIC STRIPE (DETAIL YELLOW)	LIN. FT.	40	mil. THERMO		
(6)	RED-CLEAR REFLECT. RAISED PAVEMENT MARKER	EACH				
(7)	ONE-WAY YELLOW REFLECT. RAISED PAVEMENT MARKER	EACH				

LEGEND:

	TYPE "B" WARNING LIGHT
	DIRECTION OF TRAFFIC
	FLASHING ARROW PANEL ("TYPE C")
	TEMPORARY TRAFFIC CONTROL SIGN
	REFLECTORIZED FREE-STANDING PLASTIC DRUM
	TEMPORARY PRECAST CONCRETE BARRIER
	IMPACT ATTENUATOR
	TYPE III BARRICADE
	CONSTRUCTION THIS PHASE



MISSISSIPPI DEPARTMENT OF TRANSPORTATION
RAMP CLOSURE DETAIL

US 51 SOUTHBOUND (CLOSED)

COUNTY: HINDS
 PROJ. NO.: BR-0020-01(216)

WORKING NUMBER: RCD-2
 SHEET NUMBER: 121

DATE: 11/22/19
 BY: KRP
 REVISION: TYPE III BARRICADE DETAIL REMOVED

DESIGN TEAM: HNTB
 CHECKED: KRP
 DATE: 11-5-18

FILENAME: RCD-2_SH.DGN



STATE	PROJECT NO.
MISS.	BR-0020-01(216)

ADDENDUM

US 51 SB/STATE STREET

US 51 NB/STATE STREET

STATE STREET/GALLATIN STREET EXIT RAMP

I-20 EB / I-55 NB

Notes:
 1. FOR TEMPORARY TRAFFIC CONTROL FOR THIS PHASE, SEE TC SHEETS.
 2. FOR DETOUR ROUTE OF GALLATIN STREET EXIT RAMP CLOSURE, SEE DRP SHEETS.

PAVEMENT MARKING — (TEMPORARY)

SYMBOL	DESCRIPTION	UNIT		TYPE	QUANTITY	TYPE	SIZE	QTY
		LIN. FT.	40 mil. THERMO					
(1)	TEMP. TRAFFIC STRIPE (CONT. WHITE)	LIN. FT.	40 mil. THERMO					
(2)	TEMP. TRAFFIC STRIPE (CONT. YELLOW)	LIN. FT.	40 mil. THERMO					
(3)	TEMP. TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	40 mil. THERMO					
(4)	TEMP. TRAFFIC STRIPE (DETAIL WHITE)	LIN. FT.	40 mil. THERMO					
(5)	TEMP. TRAFFIC STRIPE (DETAIL YELLOW)	LIN. FT.	40 mil. THERMO					
(6)	RED-CLEAR REFLECT. RAISED PAVEMENT MARKER	EACH						
(7)	ONE-WAY YELLOW REFLECT. RAISED PAVEMENT MARKER	EACH						

SIGNING — (TEMP.)

SYMBOL	DESCRIPTION	UNIT	TYPE	QUANTITY	TYPE	SIZE	QTY
(1)	TEMP. TRAFFIC STRIPE (CONT. WHITE)	LIN. FT.	40 mil. THERMO				
(2)	TEMP. TRAFFIC STRIPE (CONT. YELLOW)	LIN. FT.	40 mil. THERMO				
(3)	TEMP. TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	40 mil. THERMO				
(4)	TEMP. TRAFFIC STRIPE (DETAIL WHITE)	LIN. FT.	40 mil. THERMO				
(5)	TEMP. TRAFFIC STRIPE (DETAIL YELLOW)	LIN. FT.	40 mil. THERMO				
(6)	RED-CLEAR REFLECT. RAISED PAVEMENT MARKER	EACH					
(7)	ONE-WAY YELLOW REFLECT. RAISED PAVEMENT MARKER	EACH					

LEGEND:

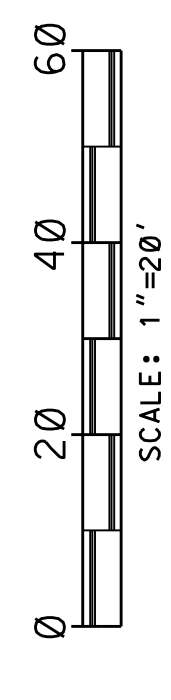
	TYPE "B" WARNING LIGHT
	DIRECTION OF TRAFFIC
	FLASHING ARROW PANEL ("TYPE C")
	TEMPORARY TRAFFIC CONTROL SIGN
	REFLECTORIZED FREE-STANDING PLASTIC DRUM
	TEMPORARY PRECAST CONCRETE BARRIER
	IMPACT ATTENUATOR
	TYPE III BARRICADE
	CONSTRUCTION THIS PHASE

STATE STREET/GALLATIN STREET OVERHEAD EXIT TRUSS TO BE INSTALLED PRIOR TO REMOVAL OF EXISTING TRUSS

TEMPORARY PRECAST CONCRETE BARRIER (OFFSET 2' FROM TEMPORARY EDGE STRIPE)

IN PLACE FROM PHASE 1A

IN PLACE FROM PHASE 1A



MISSISSIPPI DEPARTMENT OF TRANSPORTATION
RAMP CLOSURE DETAIL

**EXIT 45 STATE STREET/
 GALLATIN STREET (CLOSED)**

COUNTY: HINDS
 PROJ. NO.: BR-0020-01(216)
 FILENAME: RCD-3_S.H.DGN

WORKING NUMBER: RCD-3
 SHEET NUMBER: 122

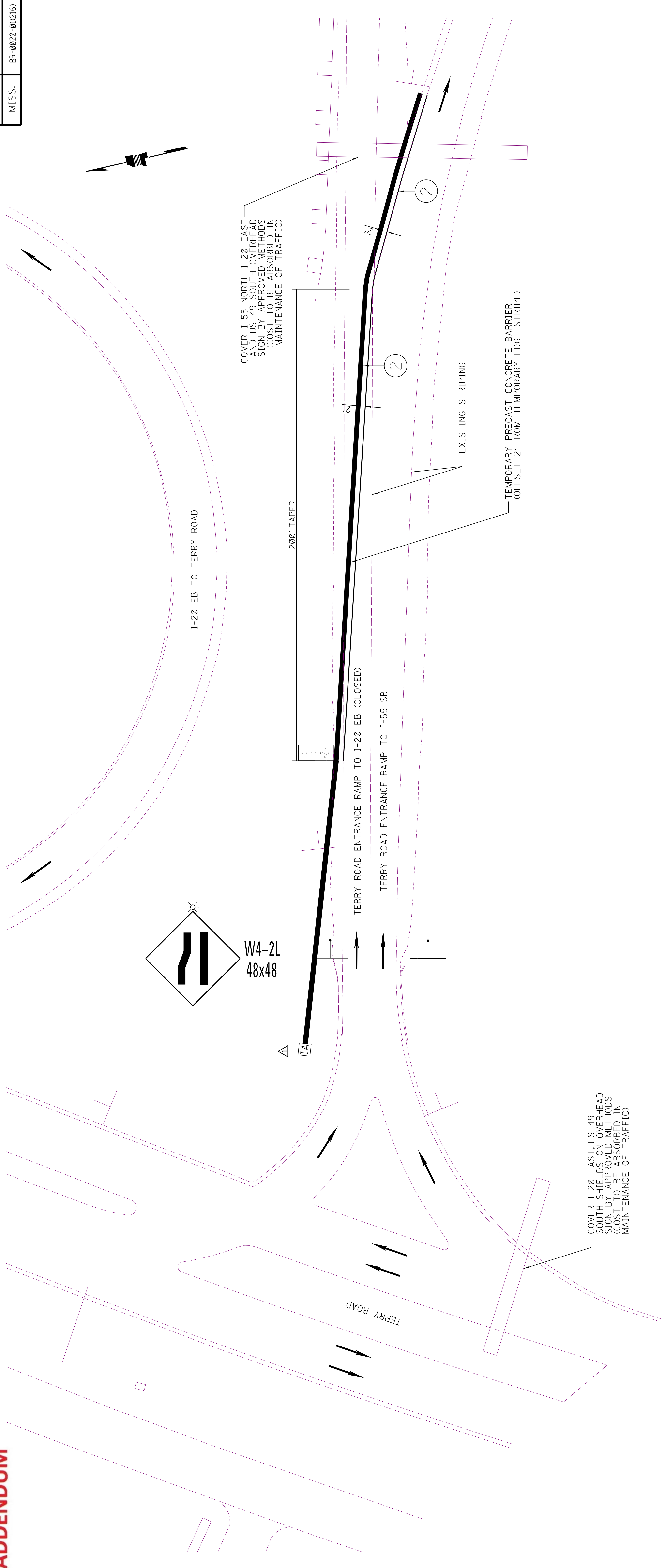
DATE	BY	REVISION
11/22/19	KBP	TYPE III BARRICADE DETAIL REMOVED

DESIGN TEAM: HNTB
 CHECKED: KBP
 DATE: 11-5-18



STATE	PROJECT NO.
MISS.	BR-0020-01(216)

ADDENDUM



Notes:

- FOR TEMPORARY TRAFFIC CONTROL FOR THIS PHASE, SEE TC SHEETS.
- FOR DETOUR ROUTE FOR TERRY ROAD TO I-20 EASTBOUND ENTRANCE RAMP CLOSURE, SEE DRP SHEETS.

QUANTITIES:

CONCRETE MEDIAN BARRIER.....	417 LF
IMPACT ATTENUATOR.....	1
PLASTIC DRUMS.....	1
TYPE 'B' WARNING LIGHTS.....	2
TYPE III BARRICADES.....	2

PAVEMENT MARKING — (TEMPORARY)

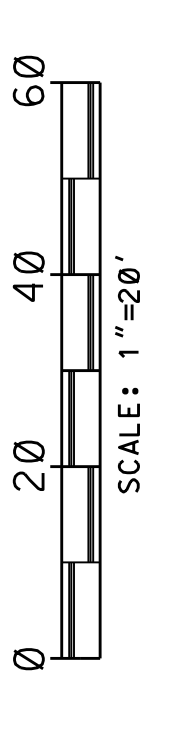
SYMBOL	DESCRIPTION	UNIT	TYPE	QUANTITY	SIGNING — (Temp.)	
					TYPE	QTY
(1)	TEMP. TRAFFIC STRIPE (CONT. WHITE)	LIN. FT.	40 mil. THERMO	285.80	W4-2L	2
(2)	TEMP. TRAFFIC STRIPE (CONT. YELLOW)	LIN. FT.	40 mil. THERMO			
(3)	TEMP. TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	40 mil. THERMO			
(4)	TEMP. TRAFFIC STRIPE (DETAIL WHITE)	LIN. FT.	40 mil. THERMO			
(5)	TEMP. TRAFFIC STRIPE (DETAIL YELLOW)	LIN. FT.	40 mil. THERMO			
(6)	RED-CLEAR REFLECT. RAISED PAVEMENT MARKER	EACH				
(7)	ONE-WAY YELLOW REFLECT. RAISED PAVEMENT MARKER	EACH				

SIGNING — (Temp.)

SYMBOL	DESCRIPTION	UNIT	TYPE	QUANTITY	SIZE	QTY
(1)	TEMP. TRAFFIC STRIPE (CONT. WHITE)	LIN. FT.	40 mil. THERMO	285.80	48x48	2

LEGEND:

	TYPE "B" WARNING LIGHT
	DIRECTION OF TRAFFIC
	FLASHING ARROW PANEL ("TYPE C")
	TEMPORARY TRAFFIC CONTROL SIGN
	REFLECTORIZED FREE-STANDING PLASTIC DRUM
	TEMPORARY PRECAST CONCRETE BARRIER
	IMPACT ATTENUATOR
	TYPE III BARRICADE
	CONSTRUCTION THIS PHASE



MISSISSIPPI DEPARTMENT OF TRANSPORTATION
RAMP CLOSURE DETAIL

TERRY ROAD TO I-20 EASTBOUND (CLOSED)

COUNTY: HINDS
 PROJ. NO.: BR-0020-01(216)
 WORKING NUMBER: RCD-4
 SHEET NUMBER: 123

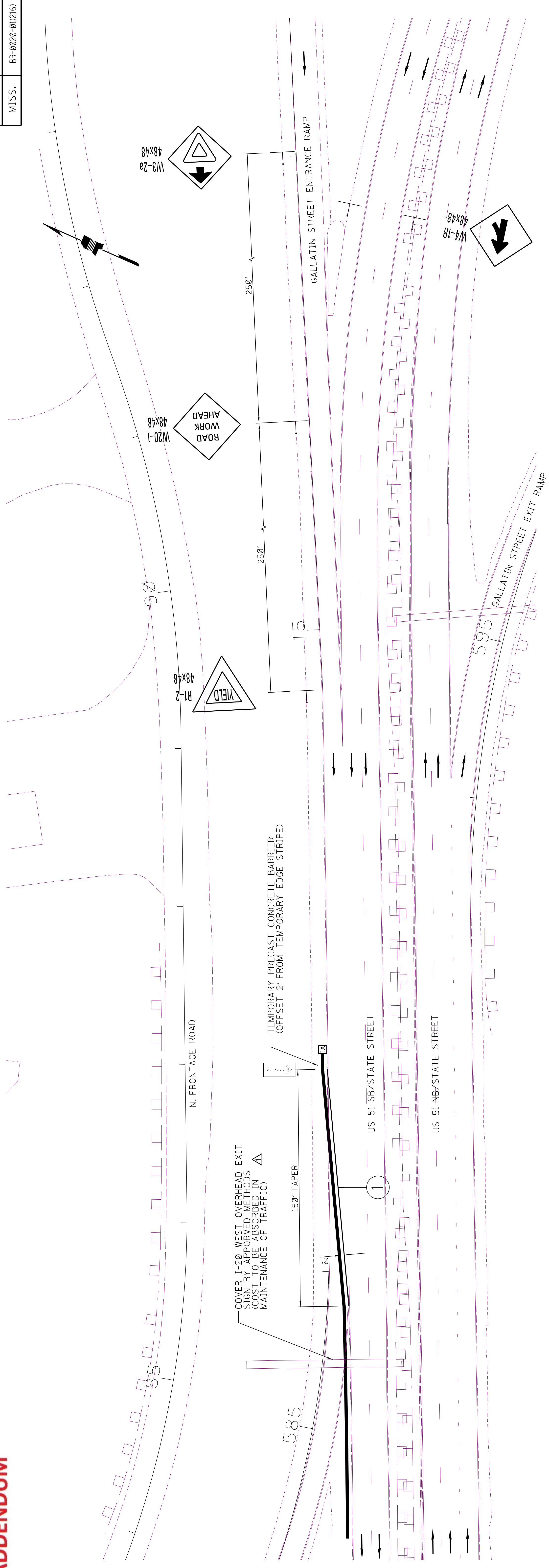
DATE: 11/22/19
 BY: KRP
 REVISION: TYPE III BARRICADE DETAIL REMOVED
 DATE: 11/22/19
 BY: KRP
 REVISION: IMPACT ATTENUATOR SYMBOL ADDED

DESIGN TEAM: HNTB
 CHECKED: KRP
 DATE: 11-5-18

STATE OF MISSISSIPPI
 ENGINEER
 KATE B. BYRD
 19984
 4/15/19

ADDENDUM

STATE	MISS.	PROJECT NO.	BR-0020-01(216)
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Notes:

- FOR TEMPORARY TRAFFIC CONTROL FOR THIS PHASE, SEE TC SHEETS.
- FOR DETOUR ROUTE FOR I-20 WESTBOUND RAMP CLOSURE, SEE DRP SHEETS.

QUANTITIES:

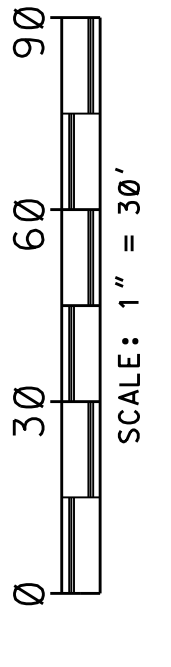
CONCRETE MEDIAN BARRIER.....	308 LF
IMPACT ATTENUATOR.....	1
PLASTIC DRUMS.....	1
TYPE 'B' WARNING LIGHTS.....	
TYPE III BARRICADES.....	

PAVEMENT MARKING — (TEMPORARY)

SYMBOL	DESCRIPTION	UNIT	TYPE	QUANTITY	SIGNING — (Temp.)	
					TYPE	QTY
①	TEMP. TRAFFIC STRIPE (CONT. WHITE)	LIN. FT.	40 mil. THERMO	150.62	R1-2	1
②	TEMP. TRAFFIC STRIPE (CONT. YELLOW)	LIN. FT.	40 mil. THERMO		W20-1	1
③	TEMP. TRAFFIC STRIPE (SKIP WHITE)	LIN. FT.	40 mil. THERMO		W3-2a	1
④	TEMP. TRAFFIC STRIPE (DETAIL WHITE)	LIN. FT.	40 mil. THERMO		W4-IR	2
⑤	TEMP. TRAFFIC STRIPE (DETAIL YELLOW)	LIN. FT.	40 mil. THERMO			
⑥	RED-CLEAR REFLECT. RAISED PAVEMENT MARKER	EACH				
⑦	ONE-WAY YELLOW REFLECT. RAISED PAVEMENT MARKER	EACH				

LEGEND:

	TYPE "B" WARNING LIGHT
	DIRECTION OF TRAFFIC
	FLASHING ARROW PANEL ("TYPE C")
	TEMPORARY TRAFFIC CONTROL SIGN
	REFLECTORIZED FREE-STANDING PLASTIC DRUM
	TEMPORARY PRECAST CONCRETE BARRIER
	IMPACT ATTENUATOR
	TYPE III BARRICADE
	CONSTRUCTION THIS PHASE



MISSISSIPPI DEPARTMENT OF TRANSPORTATION
RAMP CLOSURE DETAIL

GALLATIN STREET TO I-20 WESTBOUND (CLOSED)

COUNTY: HINDS
 PROJ. NO.: BR-0020-01(216)
 WORKING NUMBER: RCD-5
 SHEET NUMBER: 124

REVISIONS:

NO.	DATE	BY	REVISION
1	11/22/19	KBP	REVISED NOTE
2	11/22/19	KBP	TYPE III BARRICADE DETAIL REMOVED
3			
4			

DESIGN TEAM: HNTB
 CHECKED: KBP
 DATE: 11-5-19

STATE OF MISSISSIPPI
 PROFESSIONAL ENGINEER
 KATE B. BYRNE
 19984
 4/15/19