

SECTION 905 -- PROPOSAL (CONTINUED)

I (We) hereby certify by digital signature and electronic submission via Bid Express of the Section 905 proposal below, that all certifications, disclosures and affidavits incorporated herein are deemed to be duly executed in the aggregate, fully enforceable and binding upon delivery of the bid proposal. I (We) further acknowledge that this certification shall not extend to the bid bond or alternate security which must be separately executed for the benefit of the Commission. This signature does not cure deficiencies in any required certifications, disclosures and/or affidavits. I (We) also acknowledge the right of the Commission to require full and final execution on any certification, disclosure or affidavit contained in the proposal at the Commission's election upon award. Failure to so execute at the Commission's request within the time allowed in the Standard Specifications for execution of all contract documents will result in forfeiture of the bid bond or alternate security.

Bidder acknowledges receipt of and has added to and made a part of the proposal and contract documents the following addendum (addenda):

ADDENDUM NO.	<u>1</u>	DATED	<u>9/4/2025</u>	ADDENDUM NO.	_____	DATED	_____
ADDENDUM NO.	<u>2</u>	DATED	<u>9/16/2025</u>	ADDENDUM NO.	_____	DATED	_____
ADDENDUM NO.	_____	DATED	_____	ADDENDUM NO.	_____	DATED	_____

Number

Description

- 1 Revised Table of Contents; Revised NTB No. 4638; Added NTB Nos. 7302 & 7304; Added SP 907-713-1, SP 907-803-6 & SP 907-804-13 with Supplement; Revised Bid Items; Amendment EBSx Download Required.
- 2 Revised Table of Contents; Added SP 907-207-2 & SP 907-661-6 w/Supplement; Revised Bid Items; Revised or Added Plan Sheet Nos. 2, 5, 32-40, 43, 48, 51, 53, 68-69, 422-424, 2001-2003, 8004 & 8008; Amendment EBSx Download Required.

TOTAL ADDENDA: 2

(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.

STP-0019-02(065)/ 102168301000

Lafayette County(ies)

Revised 01/26/2016

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

09/16/2025 12:46 PM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-207-2

CODE: (SP)

DATE: 03/25/2019

SUBJECT: Settlement Plate

Section 907-207, Settlement Plate, is added to and becomes a part of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as follows.

907-207.02--Materials. Delete the paragraph in Subsection 207.02 on page 123, and substitute the following.

The required material lengths and quantities are the responsibility of the Contractor based on the embankment total height, plus surcharge height, if required, plus stick-up. The settlement plate assembly details and materials shall be as shown in Figure 1. Actual quantities will vary based on site conditions at the time of placement. The Contractor shall be responsible for verification of ground line at the time of construction and adjustment of quantities, as needed.

After Subsection 207.02.3 on page 123, add the following figure.

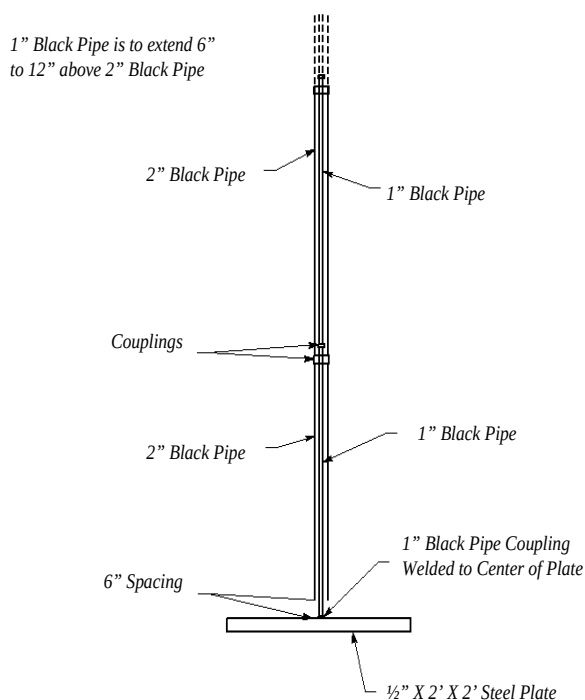


Figure 1. Settlement Plate Assembly Detail

907-207.03--Construction Requirements.

907-207.03.2--Monitoring. Delete the paragraph in Subsection 207.03.2 on page 124, and substitute the following.

Monitoring of the settlement plate(s) will be done weekly commencing immediately after each settlement plate is set and shall continue until a 180- day waiting period is completed. The 180- day waiting period does not begin until the embankment and, if applicable, the surcharge construction is complete. The settlement plate(s) elevation shall be surveyed weekly and recorded to the nearest hundredth of a foot (0.01'). The data shall be recorded on a Department furnished settlement plate excel data sheet(s). The data sheet can be downloaded at www.GoMDOT.com under Construction Division Forms. A sample of the data sheet is attached. An electronic data shall be reported weekly to the Project Engineer for review. The data from the settlement plate(s) shall be forward to the Geotechnical Engineer, with copies to the Project Engineer, every 30 days for evaluation. Monitoring shall be performed from an established survey location outside the limits of anticipated settlement.

907-207.04--Method of Measurement. Delete the paragraph in Subsection 207.04 on page 124, and substitute the following.

Settlement plate will be measured per each. No separate payment will be made for maintaining, monitoring or reporting the settlement plate(s) data for the 180-day waiting period. Cost associated with maintaining, monitoring, surveying, and reporting settlement plate(s) data shall be included in the cost of the settlement plate.

907-207.05--Basis of Payment. Delete the pay item listed on page 124, and substitute the following.

907-207-A: Settlement Plate

- per each

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPPLEMENT TO SPECIAL PROVISION NO. 907-661-6

DATE: 08/06/2024

SUBJECT: Fiber Optic Cable (OSP)

After Subsection 907-661.03.17 on page 18, add the following.

907-661.03.18--As-Builts. The Contractor shall collect survey data of the location of the fiber optic cables, (including fiber trunk lines and fiber drop lines) (including buried fiber and aerial fiber), ITS pull boxes, and ITS and traffic signal cabinets. The survey data shall be accurate within three feet (3') and shall include the type of fiber patch panel inside the cabinets and the number of strands terminated on each patch panel. The Contractor shall furnish to the Department survey data of the locations and other attributes in both KMZ and Shapefile (SHP) formats. Since the survey data submittal is considered a part of the pay item, and the pay item is not complete until the survey data submittal is received, contract time will not be suspended until such time the Contractor submits the survey data to the Department.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-661-6

CODE: (IS)

DATE: 05/25/2021

SUBJECT: Fiber Optic Cable (OSP)

Section 907-661, Fiber Optic Cable, is hereby added to and becomes part of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as follows.

SECTION 907-661 -- FIBER OPTIC CABLE (OSP)

907-661.01--Description. The work shall consist of the construction of the infrastructure required to install, replace, or upgrade fiber optic cable. The infrastructure shall include all necessary conduits, pull boxes, pole line hardware, building entries, risers and fiber cable to make a complete system.

907-661.02--Materials.

907-661.02.1--Single Mode Fiber Optic Cable (FO Cable). The Contractor shall provide 72-count fiber optic cable, [unless otherwise stated in the plans](#), that meets the following requirements:

- All-dielectric, [outdoor hardened](#) (outside plant – OSP), loose tube cable with central strength/anti-buckling member
- Dry water blocking materials and construction
- Reverse oscillating “SZ” stranded buffer tube construction
- High tensile strength yarn
- Medium density polyethylene outer jacket
- 72-fiber cable with six (6) active buffer tubes and 12 individual stranded fibers per buffer tube, [unless otherwise stated in the plans](#)
- Cable construction design that allows for no more than [the number of active](#) buffer tube positions
- Maximum diameter 0.48 inches
- Maximum weight 0.07 pounds per foot
- [Attenuation shall not exceed 0.4 dB/km at 1310 nm and 0.3 dB/km at 1550 nm.](#)

The Contractor shall provide a Corning ALTOS All-Dielectric, Pirelli FlexLink, OFS MiDia, or approved equivalent cable. This cable shall be designated as a trunk cable.

The Contractor shall ensure that the cable can withstand a maximum pulling tension of 600 pounds (lbf) during installation and 180 pounds (lbf) installed long term (at rest).

The cable shall have a shipping, storage and operating temperature range of -30°C to +70°C and installation temperature range of -30°C to +60°C.

The Contractor shall provide cable with outer jacket marking using the following template.

Manufacturer's Name - "Optical Cable" - Month/Year of Manufacture - Telephone Handset
Symbol - "MDOT" - "72F SM" (if applicable, replace 72 with the actual number of fibers)

The Contractor shall include in the outer jacket marking the cable sequential length in accordance with the following:

- In English units every two (2) feet
- Within -0/+1% of the actual length of the cable
- In contrasting color to the cable jacket
- Marking font height no less than 0.10 inch
- On any single length of cable on a reel, the sequential length markings do not run through "00000"

907-661.02.2--Single Mode Fiber Optic Cable Indoor/Outdoor Riser Rated. The Contractor shall provide fiber optic plenum rated cable that meets the following requirements when called for on the Plans:

- All-dielectric, inside plant, loose tube central core cable
- High tensile strength yarn surrounding the central tube core
- Dry water blocking materials and construction
- 72-fiber cable with six (6) active buffer tubes and 12 individual stranded fibers per buffer tube, unless otherwise stated on the plans
- Corning Freedom LST All-Dielectric, Pirelli CentraLink, OFS Allwave, or approved equivalent cables shall be provided. This cable shall be designated as the building entry cable.
- Attenuation shall not exceed 0.4 dB/km at 1310 nm and 0.3 dB/km at 1550 nm.

The Contractor shall ensure that the cable can withstand a maximum pulling tension of 300 pounds (lbf) during installation.

The cable shall have a shipping, storage and operating temperature range of -30°C to +70°C and an installation temperature range of -10°C to +60°C.

The Contractor shall provide cable with outer jacket marking using the following template.

Manufacturer's Name - "Optical Cable" - Month/Year of Manufacture - Telephone Handset
Symbol - "MDOT" - "72F SM" (if applicable, replace 72 with the actual number of fibers)

The Contractor shall include in the outer jacket marking the cable sequential length in accordance with the following:

- English units every two (2) feet.
- Within -0/+1% of the actual length of the cable
- Contrasting color to the cable jacket
- Marking font height no less than 0.10 inch
- The sequential length markings do not run through "00000" on any single length of cable

on a reel

907-661.02.3--Single Mode Fiber Optic Drop Cable (FO Drop Cable). The Contractor shall provide 12-count Single Mode Fiber, Pre-Terminated Drop Cable Assemblies. These assemblies shall be employed when connecting a camera, traffic controller, DMS or other device to the main cable.

Assemblies shall be factory assembled and terminated on one end with ceramic ferrule, LC compatible, heat cured epoxy connectors with an operational temperature of -40°C to +70°C. Each connector shall have a minimum of a 1-inch strain relief boot.

Insertion loss for each connector shall not exceed 0.30 dB.

Return loss for single mode connectors shall be greater than 45 dB.

Each assembly shall be fully tested and those test results placed on a test tag for each assembly.

Each assembly shall be individually packaged within a box or reel, with the submitted manufacturer's part number marked on the outside of the package.

Individual 250-µm coated fibers shall be up-jacketed to 1/8-inch using fan-out tubing. This tubing shall contain a 900-µm Teflon inner tube, aramid yarn strength members and an outer jacket.

The fan-out tubing shall be secured to the cable in a hard epoxy plug transition. Length of the individual legs shall be a minimum of three feet with the length difference between the shortest and longest legs of the assembly being no more than two inches.

The 12-Fiber, Pre-terminated Drop Cable Assemblies provided shall meet the following minimum requirements:

- All-dielectric, **outdoor hardened**, loose tube central core cable shall be used
- High tensile strength yarn surrounding the central tube core
- Dry water blocking materials and construction
- Twelve (12) individual stranded fibers contained within the central tube core
- Corning Freedom LST All-Dielectric, Pirelli CentraLink, OFS Allwave, or approved equivalent cables shall be used. This cable shall be designated as the drop cable

The Contractor shall ensure that the cable can withstand a maximum pulling tension of 300 pounds (lbf) during installation.

The cable shall have a shipping, storage and operating temperature range of -30°C to +70°C and an installation temperature range of -10°C to +60°C.

The Contractor shall provide cable with outer jacket marking using the following template.

Manufacturer's Name - "Optical Cable" - Month/Year of Manufacture - Telephone Handset Symbol - "MDOT" - "12F SM"

The Contractor shall include in the outer jacket marking the cable sequential length in accordance with the following:

- English units every two (2) feet
- Within -0/+1% of the actual length of the cable
- Contrasting color to the cable jacket
- Marking font height no less than 0.10 inch
- The sequential length markings do not run through "00000" on any single length of cable on a reel

907-661.02.4--Multimode Fiber Optic Drop Cable (MM FO Drop Cable). The Contractor shall provide 12-count Multimode Fiber, Pre-Terminated Drop Cable Assemblies. These assemblies shall be employed when connecting a camera, traffic controller, DMS or other device to the main cable.

Cable Assembly shall be rated for outdoor environment and have operational temperature of -40°C to +70°C. Each connector shall have a minimum of a 1-inch strain relief boot. The Cable Assembly shall also be pre-terminated on one end.

Insertion loss for each connector shall not exceed 0.30 dB.

Attenuation shall not exceed 3 dB/km for 850 nm and 1dB/km for 1300 nm.

Each assembly shall be fully tested and those test results placed on a test tag for each assembly.

Each assembly shall be individually packaged within a box or reel, with the submitted manufacturer's part number marked on the outside of the package.

The fan-out tubing shall be secured to the cable in a hard epoxy plug transition. Length of the individual legs shall be a minimum of three feet with the length difference between the shortest and longest legs of the assembly being no more than two inches.

The 12-Fiber, Pre-terminated Drop Cable Assemblies provided shall meet the following minimum requirements:

- All-dielectric, **outdoor hardened**, loose tube central core cable shall be used
- High tensile strength yarn surrounding the central tube core
- Dry water blocking materials and construction
- Twelve (12) individual stranded fibers contained within the central tube core
- Corning Freedm LST All-Dielectric, Pirelli CentraLink, or approved equivalent cables shall be used. This cable shall be designated as the drop cable

The Contractor shall ensure that the cable can withstand a maximum pulling tension of 300 pounds (lbf) during installation.

The cable shall have a shipping, storage and operating temperature range of -30°C to +70°C and

an installation temperature range of -10°C to +60°C.

The Contractor shall provide cable with outer jacket marking using the following template.

Manufacturer's Name - "Optical Cable" - Month/Year of Manufacture - Telephone Handset
Symbol - "MDOT" - "12F MM"

The Contractor shall include in the outer jacket marking the cable sequential length in accordance with the following:

- English units every two (2) feet
- Within -0/+1% of the actual length of the cable
- Contrasting color to the cable jacket
- Marking font height no less than 0.10 inch
- The sequential length markings do not run through "00000" on any single length of cable on a reel

907-661.02.5--Plenum Rated Nonmetallic Corrugated Raceway. The Contractor shall provide plenum rated nonmetallic corrugated raceway inside buildings when cable is not in rigid conduit or when it is called for on the plans.

The installation shall conform to NEC articles 770 and 800.

Raceway shall meet UL Standards 910 and 2024.

The Contractor shall provide 2-inch diameter raceway unless larger is called for in the plans.

907-661.02.6--Fiber Optic Splices. All splices shall be created according to the latest version of the manufacturer's cable installation procedures unless otherwise noted in the plans or by the Project Engineer.

The Contractor shall utilize a Fiber Optic Fusion Splicer for the splicing of all fibers with a fully automatic, portable fusion splicer that provides consistent low loss (max 0.10 dB) splices. The splicer shall provide three-axis fiber core alignment using light injection and loss measurement techniques. The fusing process shall be automatically controlled. The splicer shall provide splice loss measurements on an integral display, as well as a magnified image of the fiber alignment.

907-661.02.7--Fiber Optic Connectors. The Contractor shall provide fiber optic connectors for all fiber optic infrastructures including but not limited to fiber optic termination cabinets, fiber optic drop panels, and fiber optic patch cords.

The Contractor shall provide only factory-installed keyed LC compatible connectors for all fiber optic infrastructures.

Field-installed connectors shall not be used.

Adapter couplers shall not be used to change connector types.

Ceramic ferule connectors, factory-installed, with a thermal-set heat-cured epoxy and machine polished mating face shall be used.

Connectors shall be installed as per manufacturer application and recommendations, including proper termination to the outer-tubing (900-micron tubing, 3-mm fan out tubing, etc.) required for the application.

Connectors rated for an operating temperature of -40°C to +75 °C shall be used.

Simplex connectors for all male LC connectors shall be used and a latching cover for two male connectors being used in a duplex configuration shall be provided. Female couplers may be duplex but must allow simplex mating connectors.

Dust caps shall be provided for all exposed male connectors and female couplers at all times until permanent connector installation.

907-661.02.8--Fiber Optic Termination Cabinet (FO Termination Cabinet). Fiber optic termination cabinets shall be provided in communications hubs, field junctions, and the MDOT Traffic Management Center (TMC) as shown in the Plans for termination of **all fibers of the fiber optic** cable(s).

The Contractor shall provide wall/shelf mount 12-fiber distribution **cabinets** equipped with fiber optic connector modules in a 12-fiber configuration. These will be used in field equipment and communication cabinet locations. **Pre-terminated fiber distribution cabinets shall not be used without prior approval from Project Engineer.**

Termination cabinets with cable management features included shall be provided.

The Contractor shall use termination cabinets that are fully compatible with all components of the fiber optic infrastructure as specified, including, but not limited to, fiber optic cable, fiber optic fusion splices and fiber optic connectors.

The Contractor shall provide rack-mount termination cabinets designed to fit standard 19-inch EIA equipment racks.

The Contractor shall provide all mounting hardware and supports to mount the termination cabinets in the locations shown in the Plans.

The Contractor shall provide fiber optic termination cabinets providing **a minimum of 72-fiber** connectors and capable of storing **a minimum of 72** fusion splices in splice trays.

The Contractor shall provide termination cabinets that integrate the splice trays and connector modules into one compartment within one cabinet, or houses the splice trays and connector modules in separate compartments integrated into one cabinet.

The maximum dimensions of a complete termination cabinet shall be 7-rack units, 12¼ inches high by 16 inches deep.

Fiber optic termination cabinets shall be fully enclosed metallic construction with a protective hinged front cover for the connector ports.

The cabinet shall have cable access on all sides of the enclosed area behind the connector port panel.

The Contractor shall provide sufficient splice trays for storing a minimum of 72 fusion splices in 12 or 24-splice increments.

The Contractor shall provide termination cabinets with fiber optic connector modules in a 12 fiber configuration of six (6) rows of one (1) duplex connector couplers. Connector modules shall mount vertically in the termination cabinet front panel.

Connector modules shall include clearly legible and permanent labeling of each of the 12 fiber connector couplers, and shall be labeled and identified as shown in the Plans.

The Contractor shall provide factory-assembled 12-fiber termination interconnect cables (pigtail cables) to be fusion spliced to the outdoor hardened or indoor cable and connected to the rear of the connector modules.

Termination interconnect cables shall be all-dielectric, single jacketed cable with high tensile strength yarn surrounding 12 individual 900-micron fibers following EIA/TIA-598B color identification with factory-installed connectors.

The Contractor shall provide all incidental and ancillary materials including but not limited to grommets, cable strain relief and routing hardware, blank connector panels and labeling materials.

The cable shall be new (unused) and of current design and manufacture.

907-661.02.9--OSP Closures for Aerial, Pole Mount, Pedestal and Hand Hold Environments.

OSP closures for aerial, pole mount, pedestal and hand hole shall be capable of accepting up to eight cables. The closures shall be capable of storing up to eight 90-inch lengths of expressed buffer tubes and up to 96 splices.

Assembly shall be accomplished without power supplies, torches, drill kits or any special tools. Re-entry shall require no additional materials.

Sealing shall be accomplished by enclosing the splices in a polypropylene case that is clamped together with a stainless steel latch and sealed with an O-ring.

Closure shall be capable of strand mounting with the addition of a strand mounting bracket.

Splice case shall be non-filled, non-encapsulate to prevent water intrusion, and shall allow re-entry without any special tools.

The closure shall be capable of preventing a 10-foot water head from intruding into the splice compartment for a period of seven (7) days.

It is the responsibility of the Contractor to ensure that the water immersion test has been performed by the manufacturer or an independent testing laboratory, and the appropriate documentation has been submitted to the Engineer.

907-661.02.10--OSP Closures for Drop Cable Splice Points. OSP closures for aerial, pole mount, pedestal and hand hold shall be capable of accepting the trunk cable and two drop cables. The closures shall be capable of storing up to eight 90-inch lengths of expressed buffer tubes and up to 48 splices.

Assembly shall be accomplished without power supplies, torches, drill kits or any special tools. Re-entry shall require no additional materials.

Sealing shall be accomplished by enclosing the splices in a polypropylene case that is clamped together with a stainless steel latch and sealed with an O-ring.

Closure shall be capable of strand mounting with the addition of a strand mounting bracket.

Splice case shall be non-filled, non-encapsulate to prevent water intrusion, and shall allow re-entry without any special tools.

The closure shall be capable of preventing a 10-foot water head from intruding into the splice compartment for a period of seven days.

It is the responsibility of the Contractor to ensure that the water immersion test has been performed by the manufacturer or an independent testing laboratory, and the appropriate documentation has been submitted to the Engineer.

907-661.02.11--Patch Cords and Jumper Cables. Any patch cords or jumper cables required to connect the new fiber and equipment at existing locations shall be considered incidental and shall be included in the cost of pay items 907-661-A and 907-661-B.

Any patch cords used for system configuration shall be compatible with fiber types and connectors specified herein.

Single-mode patch cords shall be yellow in color.

Jacketing material shall conform to the appropriate NEC requirement for the environment in which installed.

All cordage shall incorporate a 900-μm buffered fiber, aramid yarn strength members and an outer jacket.

Patch cords may be simplex or duplex, depending on the application.

Attenuation shall be less than 1.0 dB/km @ 1310 nm, 0.75 dB/km @ 1550 and have a total attenuation of less than .5 dB.

The Contractor shall be responsible to determine and provide attenuators with the proper attenuation to not exceed the optical budgets of the equipment connected by patch cables.

907-661.02.12--Cable Labels. The Contractor shall provide cable labels that meet the following requirements:

- Self-coiling wrap-around type
- PVC or equivalent plastic material with UV and fungus inhibitors
- Base materials and graphics/printing inks/materials designed for underground **outdoor hardened** use including solvent resistance, abrasion resistance and water absorption
- Minimum size of 2.5 inches wide by 2.5 inches long
- Minimum thickness of 0.010 inches
- Orange label body with pre-printed text in bold black block-style font with minimum text height of 0.375 inches
- The Contractor shall pre-print the following text legibly on labels used for all fiber optic trunk cables:

Caution Fiber Optic Cable Mississippi Department of Transportation (601) 359-1454

- The Contractor shall pre-print the following text legibly on labels used on all fiber optic drop cables (FO Drop Cable):

Caution Fiber Optic Drop Cable Mississippi Department of Transportation (601) 359-1454

- On all cable labels, the Contractor shall print the text specified above twice on the label with the text of the second image inverted. The end result shall be text which “reads correctly” when the label is coiled onto a cable.

907-661.02.13--Cable Markers. The Contractor shall provide low profile soil cable markers which meet the following requirements:

- 3.5 inches in diameter
- UV stabilized for Maximum fade resistance
- Durable and abrasion resistant
- Lawn mower resistant
- Orange in color
- Printed Legend:

Fiber Optic Cable
Mississippi Department of Transportation
Traffic Engineering Division (601)359-1454

The Contractor shall install cable markers with a 13-inch nylon stake every 500 feet along the fiber run.

907-661.02.14--Tracer Cable. Tracer cable requirements as defined in Section 636, along with

the requirements in this specification, shall be met. Conduit detection wire shall be #10 AWG stranded copper, orange-insulated, THHN -THWN conductor.

907-661.02.15--Project Submittal Program Requirements. The Contractor shall provide project submittals for all fiber optic infrastructures. The project submittals for fiber optic infrastructure shall include all items in this provision and any additional requirements included in any Notice to Bidders.

The Contractor shall provide project submittals including manufacturer recommended operations, maintenance and calibration procedures for the following equipment:

- Fiber optic installation and testing tools
- Fusion splicers
- Cable pulling strain dynamometers and breakaway links
- Cable air jetting/blowing systems
- OTDRs
- Optical attenuation testers (light sources and power meters)

The Contractor shall submit documentation and proof of manufacturer recommended operator training and certification for the following equipment:

- Fusion splicers
- Cable air jetting/blowing systems
- OTDRs
- Optical attenuation testers (light sources and power meters)

907-661.03--Construction Requirements. All equipment shall be installed according to the manufacturer's recommendations, the Plans and as follows.

907-661.03.1--General Requirements. Fiber optic cable shall meet the following general requirements.

- a) The Contractor shall install all fiber optic infrastructures according to the manufacturer's recommended procedures and specifications.
- b) The Contractor shall provide all necessary interconnections, services and adjustments required for a complete and operable data transmission system.
- c) The Contractor shall ensure conduit is clean and undamaged prior to installing fiber optic cable.
- d) The Contractor shall install all fiber trunk, drop, and patch cables such that attenuation shall be less than 1.0 dB/km @ 1310 nm, 0.75 dB/km @ 1550.
- e) All pole attachments, service loops and conduit risers shall be placed to minimize the possibility of damage as well as to facilitate future expansion or modernization.
- f) The cable shall be installed in continuous runs as indicated on the plans. Splices shall be allowed only at drop points or reel end points specified in the plans.
- g) At drop locations only, those fibers necessary to complete the communication path shall be spliced. Other fibers in the cable(s) shall be left undisturbed, with a minimum of five feet of buffer tube coiled inside the closure.

- h) Sufficient slack shall be left at each drop point to enable access of the cable components and splicing to occur on the ground. This is typically two times the pole height plus 15 feet.
- i) For aerial (not including aerial fiber in conduit attached to bridges) installations, the following minimum slack requirements shall apply:
 - For aerial slack storage at splice points, a radius controlling device shall be used for securing resulting cable slack at aerial splice points and shall be mounted directly to the strand.
 - For aerial cable runs exceeding 6-pole spans between splice points as indicated on the plans, two opposing radius controlling devices shall be placed on the span 50 feet apart to provide for a 100-foot service loop for future drops and for slack for repair and pole relocations.
- j) Drop cable shall be routed to the controller cabinets via conduit risers as illustrated in the plans. The cable entrance shall be sealed with a duct plug designed for fiber optic cable to prevent water ingress.
- k) The minimum requirement for fiber protection outside a fiber optic enclosure in ALL cases shall be 1/8-inch fan-out tubing, containing a hollow 900- μ m tube, aramid strength members and an outer jacket, and shall be secured to the cable sheath.
- l) The minimum requirement for fiber protection inside wall mount or rack mount fiber enclosure shall be 900- μ m buffering, intrinsic to the cable in the case of tight buffered fibers, or in the case of 250- μ m coated fibers, a fan-out body and 900- μ m tubing secured to the buffer tube(s).
- m) When high airspeed blowing (HASB) method or piston method is used, ensure that the volume of air passing through the conduit does not exceed the conduit manufacturer's recommendation.
- n) The manufacturer's recommended maximum pulling tension shall not be exceeded. Pulling attachments shall be designed to not degrade the optical and mechanical characteristics of the fiber optic cable during installation.
- o) During installation, even if the tension specifications for the cable are not exceeded the first ten feet shall be discarded.
- p) Warning tape shall be placed 12 inches above the cable not to deviate ± 18 inches from the centerline of the optical cable. Warning tape shall be at least two inches wide and colored orange.

907-661.03.2--Cable Shipping and Delivery. The cable shall be packaged on reels for shipment. Each package shall contain only one continuous length of cable. The packaging shall be constructed as to prevent damage to the cable during shipping and handling.

Both ends of the cable shall be sealed to prevent the ingress of moisture.

A weatherproof reel tag shall be attached to each reel identifying the reel and cable so that it can be used by the manufacturer to trace the manufacturing history of the cable and the fiber. A cable data sheet shall be included with each reel containing the following information:

- Manufacturer name
- Cable part number
- Factory order number
- Cable length.

- Factory measured attenuation of each fiber

The Contractor shall cover the cable with a protective and thermal wrap.

The outer end of the cable shall be securely fastened to the reel head so as to prevent the cable from becoming loose in transit. The inner end of the cable shall be projected a minimum of 6.5 feet into a slot in the side of the reel, or into housing on the inner slot of the drum, in such a manner as to make it available for testing.

Each reel shall be plainly marked to indicate the direction in which it is to be rolled to prevent loosening of the cable on the reel.

907-661.03.3--Cable Handling and Installation. The Contractor shall not exceed the maximum recommended pulling tension during installation as specified by the cable manufacturer.

The Contractor shall continuously monitor pulling tensions with calibrated measuring devices, such as a strain dynamometer.

The Contractor shall ensure that the minimum depth of the cable is a minimum of 36 inches unless shown otherwise in plans.

All pulled installations shall be protected with calibrated breakaway links.

The Contractor shall ensure that the minimum recommended bend radius is not exceeded during installation as specified by the cable manufacturer. Unless the manufacturer's recommendations are more stringent, the following guidelines shall be used for minimum bend radius:

- 20 X Cable Diameter Short Term - During Installation
- 10 X Cable Diameter Long Term - Installed

Before cable installation, the cable reels and reel stands shall be carefully inspected for imperfections or faults such as nails that might cause damage to the cable as it is unreeled.

All necessary precautions shall be taken to protect reeled cable from vandals or other sources of possible damage while unattended. Any damage to reeled cable or the reel itself shall necessitate replacement of the entire cable section at no additional cost to the State.

Whenever unreeled cable is placed on the pavement or surface above a pull box, the Contractor shall provide means of preventing vehicular or pedestrian traffic through the area in accordance with the safe maintenance of traffic provisions.

The cable shall be kept continuous throughout the pull. Cable breaks and reel end splices are permitted only in Type 5 pull boxes and occur at a minimum of 10,000 feet.

Where a cable ends in an underground fiber optic closure, all unused fibers and buffer tubes shall be secured and stored in splice trays in preparation for future reel end splicing and continuation.

907-661.03.4--Cable Storage. The Contractor shall properly store all cable to minimize susceptibility to damage. The proper bend radius shall be maintained, both short and long term, during cable storage.

Storage coils shall be neat in even length coils, with no cross over or tangling.

Storage coils of different cables shall be kept completely separate except when the cables terminate in the same splice closure.

Storage coils shall be secured to cable racking hardware with tie wraps, Velcro straps, or non-metallic cable straps with locking/buckling mechanism. No adhesive or self-adhering tapes, metal wires and straps, or rope/cord shall be used to secure coils.

Unless otherwise noted on the plans, the following are the requirements for cable storage for underground applications:

- Trunk cable in Type 4 pull box 25 feet
- Trunk cable in Type 5 pull box 200 feet
- Trunk cable in Surface Mounted pull box 5 feet
- Drop cable in Type 4 pull box 10 feet
- Drop cable in Type 5 pull box, not terminated in a splice closure 10 feet
- Drop cable in Surface Mounted pull box, not terminated in a splice closure 5 feet
- Drop cable in Type 5 pull box, terminated in a splice closure with the trunk cable 100 feet
- Drop cable in Surface Mounted pull box, terminated in a splice closure with the trunk cable 5 feet
- Trunk cable end in Type 5 pull box 200 feet
- Drop cable terminated in same splice closure as trunk cable end 200 feet
- Trunk cable end in Surface Mounted pull box 10 feet

The Contractor shall label each pull box with a numbered disk obtained from the Traffic Engineering Division. The disk shall be installed in accordance with the [manufacturer's](#) specification on the lid of each pull box. Numbers shall be noted on the As-Built plans for each pull box.

No slack cable shall be stored inside the communications hub building or Control Center.

907-661.03.5--Cable Labels. Cable labels shall be installed on all trunk and drop fiber optic cables. The installed cable shall be cleaned of all dirt and grease before applying any label.

The Contractor shall label all cables in or at every location where the cable is exposed outside of a conduit, innerduct or pole using the cable IDs for trunk cables or the device number for drop cables.

As a minimum, cable labels shall be installed in the following locations:

- Within 12 inches of every cable entry to a pull box, equipment cabinet, communications

- hub, or the TMC
- Within 12 inches of the exterior entry point of every fiber optic splice closure, termination cabinet and drop panel
- Every 30 feet for the entire length of cable in any storage coil in pull boxes
- Within one (1) foot of every pole attachment
- On every riser
- On every splice enclosure

907-661.03.6--Tracer Cable. Tracer cable requirements as defined in Section 636 Electrical Cable, along with the requirements in this specification, shall be met. The Contractor shall install one tracer cable where one or more conduits are installed. Tracer cable is required for all installation methods, including trenching, directional boring, or plowing. Conduit or Fiber Optic Cable with preinstalled tracer cable shall not be used without prior approval from Project Engineer.

Only one tracer wire is required per installed conduit bank regardless of the number of conduits installed in that segment. Tracer cable shall be installed inside the conduit.

Tracer cable is not required for structure mounted conduit, except where underground segments of structure mounted conduit are greater than 20 feet in length.

The tracer cable shall be continuous and unspliced between pull boxes and shall enter the pull boxes at the same location as the conduit with which it is installed, entering under the lower edge of the pull box.

Four (4) feet of tracer cable shall be coiled and secured in each pull box or vault.

When two or more tracer cables are in any pull box, the Contractor shall mechanically splice all tracer cable together.

Tracer cable is required in drop cable conduits.

A tracer cable surge protection system shall be furnished and installed. Tracer cables shall be attached to surge protection systems designed to dissipate high transient voltages or other electrical surges. The tracer cable surge protection system shall be grounded to a driven rod within 10 feet of the system using AWG #6 single conductor wire as detailed in the plans. Grounding shall be done through a stand alone system not connected to power or ITS device grounding. The surge protection system shall normally allow signals generated by locate system to pass through the protection system without going to ground.

907-661.03.7--Splicing into Existing Fiber Optic Cable. At some locations, the Contractor may be required to splice new drop cable into existing fiber optic cable at existing pull boxes. The Contractor is responsible to protect all existing fiber during this work. No separate payment shall be made for splicing into the existing fiber. The cost for all fiber optic work and equipment shall be included in the bid price for pay items 907-661-A and 907-661-B.

The Contractor must notify the Project Engineer in writing no less than ten (10) days in advance of doing any work to existing fiber optic cable. Before any work can begin the Contractor must

have obtained approval from the Project Engineer.

907-661.03.8--Replace Fiber Optic Cable. In locations specified in the Plans, the Contractor shall be required to remove and replace existing fiber optic cable with new fiber optic cable. The new fiber optic cable shall be an equivalent cable having the same cable type, assembly, connectors, size, construction, buffer tube construction, temperature characteristics, tensile strength, and optical characteristics. The cable type and mode shall be the same unless specified as otherwise in the Plans or Notice to Bidders. The new cable shall be a compatible replacement having equivalent or improved link characteristics. The Contractor shall install the cable as per manufacturer application and recommendations and adhere to the Installation Requirements and Testing specifications as stated herein. No separate payment will be made for this work. The cost for pulling new fiber optic cable for cable replacement, and splicing/terminating all fibers shall be included in the cost of pay item 907-661-D.

907-661.03.9--Replace Fiber Optic Drop Cable. In locations specified in the Plans, the Contractor shall be required to remove and replace existing fiber optic drop cable with new fiber optic drop cable. The new fiber optic drop cable shall be an equivalent cable having the same cable type, assembly, connectors, size, construction, buffer tube construction, temperature characteristics, tensile strength, and optical characteristics. The cable type and mode shall be the same unless specified as otherwise in the Plans or Notice to Bidders. The new cable shall be a compatible replacement having equivalent or improved link characteristics. The Contractor is required to install the cable as per manufacturer application and recommendations and adhere to the Installation Requirements and Testing specifications as stated herein. No separate payment will be made for this work. The cost for pulling new fiber optic drop cable for cable replacement, and splicing/terminating all fibers shall be included in the cost of pay item 907-661-E.

907-661.03.10--Upgrade Fiber Optic Cable. In locations specified in the Plans, the Contractor shall be required to upgrade existing fiber optic cable to new cable that adheres to the respective cable specification and requirements. The cable type and mode shall be the same unless specified as otherwise in the Plans or Notice to Bidders. The cable upgrade shall be treated as a new cable installation and adhere to all corresponding specifications and requirements stated herein. No separate payment will be made for this work. The cost for pulling new fiber optic to upgrade existing cable, and splicing/terminating all fibers shall be included in the cost of pay item 907-661-G.

907-661.03.11--Fiber Optic Connections at Existing Communication Nodes. In some locations, the Contractor shall be required to pull new fiber optic cable into an existing communications hut. No separate payment will be made for this work. The cost for pulling the fiber into the hut, providing and installing the termination equipment, and terminating all the fibers shall be included in the cost of pay items 907-661-A and 907-661-B.

907-661.03.12--Drop and Insert Applications. The signal from the TMC to local controllers, cameras, and/or dynamic message signs will be conveyed via the backbone and branch cables.

The appropriate closure (Subsection 907-661.02.8) shall be used.

A 12-port fiber distribution cabinet and appropriate jumper shall be installed within the cabinet at locations approved by the Engineer.

At each device, the applicable fibers will be routed in and out of the equipment cabinet using a pre-terminated drop cable.

Only fibers required for the drop and insert shall be cut, no other fibers in the cable shall be cut without the approval of the Engineer.

The fibers shall be connected to the transmission equipment via LC/LC fiber optic patch cables.

The drop cable shall be routed in a position that will allow access to all installed components without movement of the cable.

In traffic signal control boxes, the drop cable shall be routed up the left rear corner to a shelf mounted fiber optic termination cabinet.

In ITS equipment or communication cabinets the cable shall be routed neatly allowing for service of all installed components.

907-661.03.13--Testing. The fiber optic infrastructure shall undergo testing to verify conformance to requirements of the plans and these special provisions. The Contractor shall conduct a Project Testing Program as required in the Notice to Bidders entitled "ITS General Requirements." All costs associated with the Project Testing Program shall be included in the overall contract price; no separate payment will be made for any testing.

907-661.03.13.1--Pre-Installation Test (PIT). In addition to the requirements set forth in the Notice to Bidders entitled "ITS General Requirements", the Contractor shall, at a minimum, perform a PIT on all FO Cable prior to any cable removal from the shipping reels.

The Contractor shall perform a PIT on each cable reel delivered to the job site.

The PIT for FO Cable shall include but is not limited to:

- A visual inspection of each cable and reel
- An OTDR Test and documentation as required in the Standalone Acceptance Test (SAT) for three randomly selected fibers from each buffer tube

An Optical Attenuation Test is not required. However, if the Contractor decides to perform one of these tests for his or her own protection, it should be documented and provided to the Engineer.

907-661.03.13.2--Standalone Acceptance Test (SAT). In addition to the requirements set forth in the Notice to Bidders entitled "ITS General Requirements", the Contractor shall, at a minimum, perform an SAT on all fiber optic infrastructures on this project after field installation is complete, including but not limited to all splicing and terminations. All fiber in pull boxes shall be in its final position, mounted to the racks, prior to the start of testing.

An SAT for each fiber in each cable shall include OTDR Tests and Optical Attenuation Tests.

For the Attenuation Tests, all fibers in all FO Cables and FO Drop Cables shall be tested from termination point to termination point, including:

- Fibers from FO Termination Cabinet to FO Termination Cabinet
- Fibers from FO Termination Cabinet to FO Drop Panel
- Fibers from FO Drop Panel to FO Drop Panel
- Fibers from FO Termination Cabinet to the end of the cable run in the last FO closure

All test results shall confirm compliance with this TSP including but not limited to optical fibers and fusion splices. No event in any given fiber may exceed 0.10 dB. Any event measured above 0.10 dB shall be replaced or repaired at the event point.

Test documentation shall include but is not limited to:

- Cable & fiber identification
- Cable & fiber ID and location - Physical location (device ID and station number of FO Termination Cabinet, FO Drop Panel, or cable end FO closure), fiber number, and truck or drop cable ID for both the beginning and end point
- Operator name
- Engineer's representative
- Date & time
- Setup and test conditions parameters
- Wavelength
- Pulse width Optical Time Domain Reflectometer (OTDR)
- Refractory index (OTDR)
- Range (OTDR)
- Scale (OTDR)
- Ambient temperature
- Test results for OTDR test (each direction and averaged)
- Total fiber trace (miles)
- Splice loss/gain (dB)
- Events > 0.05 dB
- Measured length (cable marking)
- Total length (OTDR measurement)
- Test results for attenuation test (each direction and averaged)
- Measured cable length (cable marking)
- Total length (OTDR measurement from OTDR test)
- Number of splices (determined from as-builts)
- Total link attenuation

The OTDR Test shall be conducted using the standard operating procedure and recommended materials as defined by the manufacturer of the test equipment.

The Contractor shall use a factory patch cord ("launch cable") of a length equal to the "dead zone" of the OTDR to connect the OTDR and the fiber under test.

Bi-directional OTDR tests shall be conducted and bi-directional averages calculated for each fiber.

All tests shall be conducted at 1310 and 1550 nm for single mode cable.

The Contractor shall conduct the Optical Attenuation Test using the standard operating procedure and recommended materials as defined by the manufacturer of the test equipment.

Bi-directional Optical Attenuation tests shall be conducted and bi-directional averages calculated for each fiber.

Tracer Cable shall undergo testing to verify conformance to requirements of the plans and these special provisions. A continuity or tone test shall be performed after installation to confirm that a continuous run of tracer cable was installed for the full length of the conduit runs.

The Traffic Engineering ITS Department may perform additional testing of any and all infrastructure using their own equipment. The Contractor may observe this testing.

The burn-in period cannot start until the Traffic Engineering ITS Department is satisfied with the installation.

907-661.03.14--Submittals. The submittal requirements defined in the Notice to Bidders entitled "ITS General Requirements", along with the requirements below and throughout this specification, shall be met. All costs associated with submittals shall be included in the overall contract price; no separate payment will be made for any documenting and submitting.

907-661.03.15--Quality Assurance. The quality assurance requirements defined in the Notice to Bidders entitled "ITS General Requirements" shall be met. All costs associated with the quality assurance requirements shall be included in the overall contract price.

907-661.03.16--Warranty. At a minimum, the warranty requirements defined in the Notice to Bidders entitled "ITS General Requirements" shall be met.

907-661.03.17--Training. The minimum training requirements shall be as defined in the Notice to Bidders entitled "ITS General Requirements."

907-661.04--Method of Measurement. Fiber optic cable of the type specified will be measured by the linear foot, and shall be obtained by accurate measurement of the runs including horizontally, vertically, aerially along the messenger cable, from the trunk line to the controller cabinet, and with liberal allowances made for slack in boxes, as indicated in the plans.

The cost for all fiber optic work, equipment and testing shall be included in the bid price for fiber optic cable.

All required cabinet facilities shall not be measured for separate payment. All standard or special fiber optic modems, fan out boxes, connectors, termination cabinets, patch cords, raceways, splicing devices, splicing, warning tape, above ground markers, backplane facilities, twisted pair communications cable interface devices, etc., and any other cabinet modifications required for the fiber optic system shall be included in the price bid for other items of work.

Fiber Optic Cable Training shall be measured as a lump sum which shall include all coordination, materials, labor, training location costs, and all incidentals required to complete the training as described in the Notice to Bidders entitled "ITS General Requirements."

907-661.05--Basis of Payment. Fiber optic cable, measured as prescribed above, will be paid for at the contract unit price bid per linear foot, which price shall be full compensation for documentation and submittals, warranties, furnishing all materials, for all installing, connecting, cutting, pulling and testing, all equipment, tools, labor, quality assurance, and all incidentals necessary to complete the work.

Fiber Optic Cable Training, measured as prescribed above, will be paid for at the contract unit lump sum price, which price shall be full compensation for all training costs including coordination, materials, labor, training location costs, and all incidentals required to complete the training as described in the Notice to Bidders entitled "ITS General Requirements."

Payment will be made under:

907-661-A: Fiber Optic Cable, *	- per linear foot
907-661-B: Fiber Optic Drop Cable, *	- per linear foot
907-661-D: Replace Fiber Optic Cable, *	- per linear foot
907-661-E: Replace Fiber Optic Drop Cable, *	- per linear foot
907-661-G: Upgrade Fiber Optic Cable, *	- per linear foot
907-661-H Fiber Optic Cable Training	- lump sum

* Indicate the type of cable. Cable may be aerially supported as indicated in the plans.

Grade, Drain, Bridge & Pave 4 Lanes on SR 7 from CR 370 to 0.4 miles south of SR 6, known as Federal Aid Project No. STP-0019-02(065) / 102168301 in Lafayette County.

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
Roadway Items					
0010	201-A001		1	Lump Sum	Clearing and Grubbing
0020	201-B001		11	Acre	Clearing and Grubbing
0030	202-A001		1	Lump Sum	Removal of Obstructions
0040	202-B004		14,841	Square Yard	Removal of Asphalt Driveways, All Depths
0050	202-B007		37,082	Square Yard	Removal of Asphalt Pavement, All Depths
0052	202-B016		129	Linear Feet	Removal of Box Bridge
0060	202-B019		209	Linear Feet	Removal of Box Culvert
0070	202-B023		3	Each	Removal of Bridge
0080	202-B039		393	Linear Feet	Removal of Cable Barrier
0090	202-B040		1	Each	Removal of Cable Barrier Terminal Section
0100	202-B052		287	Square Yard	Removal of Concrete Driveways, All Depths
0110	202-B059		660	Square Yard	Removal of Concrete Median & Island Pavement, All Depths
0120	202-B063		6,526	Square Yard	Removal of Concrete Paved Ditch
0130	202-B073		2,574	Square Yard	Removal of Concrete Pavement, All Depths
0140	202-B080		252	Square Yard	Removal of Concrete Sidewalk
0150	202-B088		7,457	Linear Feet	Removal of Curb & Gutter, All Types
0160	202-B129		10	Each	Removal of Flared End Section, All Sizes
0170	202-B158		1,965	Linear Feet	Removal of Guard Rail, Including Rails, Posts and Terminal Ends
0180	202-B164		5	Each	Removal of Inlet and Junction Box, All Types & Sizes
0190	202-B178		14	Each	Removal of Low Mast Lighting Assembly and Foundation
0200	202-B191		3,016	Linear Feet	Removal of Pipe, 8" And Above
0210	202-B204		395	Linear Feet	Removal of Retaining Wall
0220	203-A001	(E)	781,690	Cubic Yard	Unclassified Excavation, FM, AH
0230	203-EX020	(E)	1,598,642	Cubic Yard	Borrow Excavation, AH, FME, Class B9
0240	203-G001	(E)	27,134	Cubic Yard	Excess Excavation, FM, AH
0250	206-A001	(S)	10,211	Cubic Yard	Structure Excavation
0260	206-B001	(E)	928	Cubic Yard	Select Material for Undercuts, Contractor Furnished, FM
0270	209-A005		48,223	Square Yard	Geotextile Stabilization, Type V, Non-Woven
0280	211-B001	(E)	42,091	Cubic Yard	Topsoil for Slope Treatment, Contractor Furnished
0290	213-C001		79	Ton	Superphosphate
0300	216-A001		17,114	Square Yard	Solid Sodding
0310	217-A001		10,362	Square Yard	Ditch Liner

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0320	219-A001		346	Thousand Gallon	Watering [\$20.00]
0330	220-A001		78	Acre	Insect Pest Control [\$30.00]
0340	221-A001	(S)	2,477	Cubic Yard	Concrete Paved Ditch
0350	223-A001		156	Acre	Mowing [\$50.00]
0360	225-A001		157	Acre	Grassing
0370	225-B001		78	Ton	Agricultural Limestone
0380	225-C001		313	Ton	Mulch, Vegetative Mulch
0390	226-A001		317	Acre	Temporary Grassing
0400	229-A001		17,253	Square Yard	Erosion Mat
0410	235-A001		2,372	Each	Temporary Erosion Checks
0420	236-A008		50	Each	Silt Basin, Type D
0430	237-A002		17,950	Linear Feet	Wattles, 20"
0440	239-A001		17,857	Linear Feet	Temporary Slope Drains
0450	245-A001		4,997	Linear Feet	Silt Dike
0460	246-A001		53,710	Linear Feet	Sandbags
0470	247-A001		16	Each	Temporary Stream Diversion
0480	249-A001		7,560	Ton	Riprap for Erosion Control
0490	249-B001		3,640	Cubic Yard	Remove and Reset Riprap
0492	304-C004	(GY)	29,200	Cubic Yard	Granular Material, AEA, Class 5, Group D
0494	304-C008	(GY)	62,000	Cubic Yard	Granular Material, AEA, Class 9, Group B
0520	307-B003	(M)	160,311	Square Yard	6" Soil-Lime-Water Mixing, Class B
0530	307-D001		2,164	Ton	Lime
0540	307-S001	(A3)	40,078	Gallon	Bituminous Curing Seal
0550	308-A001		4,369	Ton	Cement
0560	308-B002	(M)	259,020	Square Yard	Soil-Cement-Water Mixing, Optional Mixers, Base
0570	308-B003	(M)	160,311	Square Yard	Soil-Cement-Water Mixing, Optional Mixers, Design Soil
0580	308-S001	(A3)	64,755	Gallon	Bituminous Curing Seal
0590	406-D001		92,735	Square Yard	Fine Milling of Bituminous Pavement, All Depths
0600	407-A001	(A2)	61,519	Gallon	Asphalt for Tack Coat
0610	423-A001		14	Mile	Rumble Strips, Ground In
0620	501-E001		11	Linear Feet	Expansion Joints, Without Dowels
0630	501-K001		376	Square Yard	Transverse Grooving
0640	503-C010		9,500	Linear Feet	Saw Cut, Full Depth
0650	602-A001	(S)	641,464	Pounds	Reinforcing Steel

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0660	603-A045	(S)	104	Linear Feet	24" Steel Pipe, Jacked or Bored
0670	603-A046	(S)	96	Linear Feet	30" Steel Pipe, Jacked or Bored
0680	603-A049	(S)	104	Linear Feet	48" Steel Pipe, Jacked or Bored
0690	603-ALT003	(S)	4,722	Linear Feet	18" Type A Alternate Pipe
0700	603-ALT006	(S)	552	Linear Feet	24" Type A Alternate Pipe
0710	603-ALT009	(S)	184	Linear Feet	30" Type A Alternate Pipe
0720	603-ALT011	(S)	232	Linear Feet	36" Type A Alternate Pipe
0730	603-ALT013	(S)	40	Linear Feet	36" x 23" Type A Alternate Pipe
0740	603-ALT017	(S)	56	Linear Feet	51" x 31" Type A Alternate Pipe
0750	603-ALT021	(S)	384	Linear Feet	73" x 45" Type A Alternate Pipe
0760	603-CA011	(S)	4,840	Linear Feet	18" Reinforced Concrete Pipe, Class III
0770	603-CA013	(S)	432	Linear Feet	18" Reinforced Concrete Pipe, Class IV
0780	603-CA026	(S)	2,207	Linear Feet	24" Reinforced Concrete Pipe, Class III
0790	603-CA040	(S)	380	Linear Feet	30" Reinforced Concrete Pipe, Class III
0800	603-CA042	(S)	664	Linear Feet	30" Reinforced Concrete Pipe, Class IV
0810	603-CA048	(S)	136	Linear Feet	30" Reinforced Concrete Pipe, Class V
0820	603-CA055	(S)	16	Linear Feet	36" Reinforced Concrete Pipe, Class III
0830	603-CA066	(S)	96	Linear Feet	42" Reinforced Concrete Pipe, Class III
0840	603-CA068	(S)	744	Linear Feet	42" Reinforced Concrete Pipe, Class IV
0850	603-CA073	(S)	720	Linear Feet	42" Reinforced Concrete Pipe, Class V, Class B Bedding
0860	603-CA076	(S)	240	Linear Feet	48" Reinforced Concrete Pipe, Class III
0870	603-CA084	(S)	328	Linear Feet	48" Reinforced Concrete Pipe, Class V, Class B Bedding
0880	603-CA087	(S)	120	Linear Feet	54" Reinforced Concrete Pipe, Class III
0890	603-CA095	(S)	104	Linear Feet	54" Reinforced Concrete Pipe, Class V, Class B Bedding
0900	603-CA099	(S)	880	Linear Feet	60" Reinforced Concrete Pipe, Class III
0910	603-CB003	(S)	48	Each	18" Reinforced Concrete End Section
0920	603-CB004	(S)	31	Each	24" Reinforced Concrete End Section
0930	603-CB005	(S)	13	Each	30" Reinforced Concrete End Section
0940	603-CB006	(S)	2	Each	36" Reinforced Concrete End Section
0950	603-CB007	(S)	14	Each	42" Reinforced Concrete End Section
0960	603-CB008	(S)	5	Each	48" Reinforced Concrete End Section
0970	603-CB009	(S)	2	Each	54" Reinforced Concrete End Section
0980	603-CB010	(S)	9	Each	60" Reinforced Concrete End Section

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0990	603-CE002	(S)	224	Linear Feet	22" x 13" Concrete Arch Pipe, Class A III
1000	603-CE008	(S)	32	Linear Feet	29" x 18" Concrete Arch Pipe, Class A III
1010	603-CE013	(S)	128	Linear Feet	36" x 23" Concrete Arch Pipe, Class A III
1020	603-CE034	(S)	488	Linear Feet	65" x 40" Concrete Arch Pipe, Class A III
1030	603-CF002	(S)	3	Each	22" x 13" Concrete Arch Pipe End Section
1040	603-CF003	(S)	2	Each	29" x 18" Concrete Arch Pipe End Section
1050	603-CF004	(S)	3	Each	36" x 23" Concrete Arch Pipe End Section
1060	603-CF008	(S)	4	Each	65" x 40" Concrete Arch Pipe End Section
1070	604-A001		1,952	Pounds	Castings
1080	604-B001		13,100	Pounds	Gratings
1090	605-AA001	(S)	605	Square Yard	Geotextile for Subsurface Drainage, Type III
1100	605-O002	(S)	1,088	Linear Feet	4" Perforated Sewer Pipe for Underdrains, SDR 23.5
1110	605-P002	(S)	132	Linear Feet	4" Non-perforated Sewer Pipe for Underdrains, SDR 23.5
1120	605-W001	(GY)	40	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type A, FM
1130	606-A003		162	Each	Guard Posts
1140	606-B001		2,463	Linear Feet	Guard Rail, Class A, Type 1
1150	606-C003		2	Each	Guard Rail, Cable Anchor, Type 1
1160	606-D022		24	Each	Guard Rail, Bridge End Section, Type I
1170	606-E005		24	Each	Guard Rail, Terminal End Section, Flared
1180	609-B002	(S)	140	Linear Feet	Concrete Curb, Header
1190	609-B003	(S)	1,654	Linear Feet	Concrete Curb, Special Design
1200	609-D003	(S)	11,677	Linear Feet	Combination Concrete Curb and Gutter Type 2
1210	609-D004	(S)	2,171	Linear Feet	Combination Concrete Curb and Gutter Type 2 Modified
1220	609-D008	(S)	380	Linear Feet	Combination Concrete Curb and Gutter Type 3A
1230	609-D012	(S)	15,284	Linear Feet	Combination Concrete Curb and Gutter Type 3A Modified
1240	609-D013	(S)	3,334	Linear Feet	Combination Concrete Curb and Gutter Type 3B
1250	609-D014	(S)	2,165	Linear Feet	Combination Concrete Curb and Gutter Type 3B Modified
1260	610-A001		270	Linear Feet	Cable Barrier
1270	610-B001		1	Each	Cable Barrier Terminal Section
1280	612-A001		100	Cubic Yard	Flowable Fill, Excavatable
1290	613-D003		7	Each	Adjustment of Inlet
1300	614-A001	(S)	3,025	Square Yard	Concrete Driveway, Without Reinforcement
1310	615-A011	(S)	564	Linear Feet	Concrete Type I Cast-in-Place Median Barrier, 42" High
1312	615-A022	(S)	573	Linear Feet	Concrete Type IV Modified Cast-in-Place Median Barrier

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1320	615-A024	(S)	538	Linear Feet	Concrete Bridge End Barrier, 37.5"
1330	616-A001	(S)	7,375	Square Yard	Concrete Median and/or Island Pavement, 10-inch
1340	616-A004	(S)	2,956	Square Yard	Concrete Median and/or Island Pavement, 4-inch
1350	617-A001		338	Each	Right-of-Way Marker
1360	619-A1001		33	Mile	Temporary Traffic Stripe, Continuous White
1370	619-A2001		30	Mile	Temporary Traffic Stripe, Continuous Yellow
1380	619-A3001		14	Mile	Temporary Traffic Stripe, Skip White
1390	619-A5001		90,191	Linear Feet	Temporary Traffic Stripe, Detail
1400	619-A6002		1,753	Linear Feet	Temporary Traffic Stripe, Legend
1402	619-C7001		1,062	Each	Two-Way Yellow Reflective High Performance Raised Marker
1410	619-C9001		75	Each	One-Way Yellow Reflective High Performance Raised Marker
1420	619-D1001		121	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
1430	619-D2001		4,179	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
1440	619-D3001		894	Each	Remove and Reset Signs, All Sizes
1450	619-E1001		1	Each	Flashing Arrow Panel, Type C
1460	619-F1001		478	Linear Feet	Concrete Median Barrier, Precast
1470	619-F3001		88	Each	Delineators, Guard Rail, White
1480	619-F3002		66	Each	Delineators, Guard Rail, Yellow
1490	619-G4001		246	Linear Feet	Barricades, Type III, Double Faced
1500	619-G4005		3,342	Linear Feet	Barricades, Type III, Single Faced
1510	619-G5001		203	Each	Free Standing Plastic Drums
1520	619-G7001		33	Each	Warning Lights, Type "B"
1530	619-G8001		38	Each	Warning Lights, Type "C"
1540	619-J1002		3	Each	Impact Attenuator, 45 MPH
1550	619-J2002		3	Each	Impact Attenuator, 45 MPH, Replacement Package
1560	620-A001		1	Lump Sum	Mobilization
1570	621-A001		1	Each	Field Laboratory
1578	629-A001		1	Each	Vehicular Impact Attenuator, 40 MPH
1580	629-A004		2	Each	Vehicular Impact Attenuator, 60 MPH
1590	629-B001		2	Each	Median Barrier End Section
1600	630-A001		485	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness
1610	630-A003		2,378	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness
1620	630-B002		438	Square Feet	Interstate Directional Signs, Bolted Extruded Aluminum Panels, Ground Mounted

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1630	630-C001		855	Linear Feet	Square Tube Posts, 4.0 lb/ft
1640	630-C005		3,481	Linear Feet	Square Tube Posts, 2.0 lb/ft
1650	630-D010		193	Linear Feet	Structural Steel Beams, W8 x 21
1660	630-E001		182	Pounds	Structural Steel Angles & Bars, 3 1/2" x 3 1/2" x 1/4" Angles
1670	630-E005		204	Pounds	Structural Steel Angles & Bars, Aluminum Unistrut
1680	630-F006		88	Each	Delineators, Guard Rail, White
1690	630-F007		66	Each	Delineators, Guard Rail, Yellow
1700	630-F009		12	Each	Delineators, Median Barrier Mounted, Type I, Yellow
1710	630-F010		68	Each	Delineators, Post Mounted, Double White
1720	630-F011		8	Each	Delineators, Post Mounted, Double Yellow
1730	630-F012		65	Each	Delineators, Post Mounted, Single White
1740	630-F013		13	Each	Delineators, Post Mounted, Single Yellow
1750	630-G005		20	Each	Type 3 Object Markers, OM-3R or OM-3L, Post Mounted
1760	635-A059		16	Each	Traffic Signal Head, Type 1
1770	635-A060		4	Each	Traffic Signal Head, Type 1A
1780	635-A061		11	Each	Traffic Signal Head, Type 2
1790	635-A063		6	Each	Traffic Signal Head, Type 2R
1800	635-A069		2	Each	Traffic Signal Head, Type 2U
1810	647-A001		1	Lump Sum	Removal of Existing Traffic Signal Equipment
1820	682-A028		500	Linear Feet	Underground Branch Circuit, AWG 4, 3 Conductor
1830	682-E003		2	Each	Underground Junction Box With Concrete Pad
1840	684-A003		16	Cubic Yard	Pole Foundation, 24" Diameter
1850	684-B003		18	Linear Feet	Slip Casing, 24" Diameter
1860	699-A001		1	Lump Sum	Roadway Construction Stakes
1870	815-A007	(S)	19,110	Ton	Loose Riprap, Size 300
1880	815-E001	(S)	8,003	Square Yard	Geotextile under Riprap
1890	815-F002	(S)	2,190	Ton	Sediment Control Stone
1892	907-207-A001		4	Each	Settlement Plate
1900	907-234-A001		141,050	Linear Feet	Temporary Silt Fence
1910	907-234-D001		35	Each	Inlet Siltation Guard
1920	907-234-E001		35	Each	Reset Inlet Siltation Guard
1930	907-253-A001		8,778	Linear Feet	Coir Fiber Baffle
1940	907-403-A002	(BA1)	26,616	Ton	12.5-mm, MT, Asphalt Pavement
1950	907-403-A003	(BA1)	3,837	Ton	12.5-mm, ST, Asphalt Pavement

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
1960	907-403-A005	(BA1)	31,152	Ton	19-mm, MT, Asphalt Pavement
1970	907-403-A006	(BA1)	36,934	Ton	19-mm, ST, Asphalt Pavement
1980	907-403-A014	(BA1)	27,193	Ton	9.5-mm, MT, Asphalt Pavement
1990	907-403-A015	(BA1)	641	Ton	9.5-mm, ST, Asphalt Pavement
2000	907-403-B002	(BA1)	106	Ton	12.5-mm, MT, Asphalt Pavement, Leveling
2010	907-413-E001		1,200	Linear Feet	Sawing and Sealing Transverse Joints in Asphalt Pavement
2020	907-501-A001	(C)	497	Square Yard	6" Reinforced Cement Concrete Pavement, Broom Finish
2030	907-502-A001	(C)	2,739	Square Yard	Reinforced Cement Concrete Bridge End Pavement
2040	907-601-A001	(S)	3,416	Cubic Yard	Class "B" Structural Concrete
2050	907-601-B001	(S)	224	Cubic Yard	Class "B" Structural Concrete, Minor Structures
2060	907-618-A001		1	Lump Sum	Maintenance of Traffic
2070	907-619-E3001		5	Each	Changeable Message Sign
2080	907-626-A007		15	Mile	6" Thermoplastic Double Drop Traffic Stripe, Skip White
2090	907-626-C012		17	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous White
2100	907-626-E003		2	Mile	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
2110	907-626-F003		11	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous Yellow
2120	907-626-G006		99,874	Linear Feet	Thermoplastic Double Drop Detail Stripe, White
2130	907-626-G007		38,329	Linear Feet	Thermoplastic Double Drop Detail Stripe, Yellow
2140	907-626-H006		5,862	Square Feet	Thermoplastic Double Drop Legend, White
2150	907-626-H007		1,753	Linear Feet	Thermoplastic Double Drop Legend, White
2160	907-627-J001		547	Each	Two-Way Clear Reflective High Performance Raised Markers
2170	907-627-K001		3,668	Each	Red-Clear Reflective High Performance Raised Markers
2180	907-627-L001		514	Each	Two-Way Yellow Reflective High Performance Raised Markers
2190	907-632-A007		3	Each	Solid State Traffic Cabinet Assembly, Type III Cabinet, Type 1 Controller
2200	907-632-J001		3	Each	Power Service Pedestal
2210	907-634-A042		1	Each	Traffic Signal Equipment Pole, Type II(L), 30' Shaft, 30' Arm
2220	907-634-A044		3	Each	Traffic Signal Equipment Pole, Type II(L), 30' Shaft, 40' Arm
2230	907-634-A045		2	Each	Traffic Signal Equipment Pole, Type II(L), 30' Shaft, 45' Arm
2240	907-634-A047		3	Each	Traffic Signal Equipment Pole, Type II(L), 30' Shaft, 55' Arm
2250	907-634-A048		1	Each	Traffic Signal Equipment Pole, Type II(L), 30' Shaft, 60' Arm
2260	907-634-A247		1	Each	Traffic Signal Equipment Pole, Type III(L), 30' Shaft, 35' & 60' Arm
2270	907-634-A539		10	Each	Traffic Signal Equipment Pole, Type V, 10' Shaft
2280	907-634-C001		34	Cubic Yard	Pole Foundations, Class "B" Concrete

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
2290	907-636-B003		2,688	Linear Feet	Electric Cable, Underground in Conduit, IMSA 20-1, AWG 10, 2 Conductor
2300	907-636-B016		10,026	Linear Feet	Electric Cable, Underground in Conduit, IMSA 20-1, AWG 14, 8 Conductor
2310	907-636-B028		742	Linear Feet	Electric Cable, Underground in Conduit, IMSA 20-1, AWG 8, 3 Conductor
2320	907-637-A002		22	Each	Pullbox Enclosure, Type 2
2330	907-637-A003		4	Each	Pullbox Enclosure, Type 3
2340	907-637-C028		1,259	Linear Feet	Traffic Signal Conduit, Underground, Type 4, 2"
2350	907-637-C030		1,562	Linear Feet	Traffic Signal Conduit, Underground, Type 4, 3"
2360	907-637-D003		1,148	Linear Feet	Traffic Signal Conduit, Underground Drilled or Jacked, Rolled Pipe, 3"
2370	907-641-A002		11	Each	Signal Stop Bar Radar Vehicle Detection Sensor, Type 2
2380	907-641-B002		6	Each	Signal Advanced Radar Vehicle Detection Sensor, Type 2
2390	907-641-D001		6,645	Linear Feet	Radar Vehicle Detection Cable
2400	907-641-F002		3	Each	Signal Radar Vehicle Detection Processor, Type 2
2410	907-650-A004		2	Each	On Street Video Equipment, PTZ Type, Signal Monitoring
2420	907-653-A001		170	Square Feet	Traffic Sign
2430	907-653-B001		116	Square Feet	Street Name Sign
2432	907-661-B002		1,050	Linear Feet	Fiber Optic Drop Cable, 12 SM
2440	907-662-D002		2	Each	Radio Interconnect, Broadband, Short Range
2448	907-663-A001		2	Each	Network Switch, Type A
2450	907-663-A006		1	Each	Network Switch, Type F
2460	907-683-PP001		4	Each	Lighting Assembly, Per Plans
2470	907-809-A005	(S)	981	Square Feet	Retaining Wall System, Temporary Shoring
2480	907-906001		1,040	Hours	Trainees [\$5.00]
ALTERNATE GROUP AA NUMBER 1					
2490	304-F001	(GT)	24,650	Ton	3/4" and Down Crushed Stone Base
ALTERNATE GROUP AA NUMBER 2					
2500	304-F002	(GT)	24,650	Ton	Size 610 Crushed Stone Base
ALTERNATE GROUP AA NUMBER 3					
2510	304-F003	(GT)	24,650	Ton	Size 825B Crushed Stone Base
ALTERNATE GROUP BB NUMBER 1					
2520	605-W002	(GY)	524	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type B, FM
ALTERNATE GROUP BB NUMBER 2					
2530	605-W003	(GY)	524	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type C, FM
Bridge Items					
2540	501-K001		18,182	Square Yard	Transverse Grooving

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
2550	803-D007	(S)	3,660	Linear Feet	HP 14 x 89 Steel Piling
2560	803-P003	(S)	1,840	Linear Feet	30" Steel Pipe Piling, Wall Thickness 0.500"
2570	803-P004	(S)	2,925	Linear Feet	30" Steel Pipe Piling, Wall Thickness 0.750"
2580	803-P009	(S)	675	Linear Feet	30" Steel Pipe Piling, Wall Thickness 0.625"
2590	803-P010	(S)	11,885	Linear Feet	20" Steel Pipe Piling, Wall Thickness 0.625"
2600	803-P015	(S)	15,175	Linear Feet	24" Steel Pipe Piling, Wall Thickness 0.625"
2610	804-C186	(S)	1,314	Linear Feet	110' Prestressed Concrete Beam, Type FIB-45
2620	804-C188	(S)	15,369	Linear Feet	80' Prestressed Concrete Beam, Type FIB-36
2630	804-C192	(S)	595	Linear Feet	100' Prestressed Concrete Beam, Type FIB-36
2640	804-C196	(S)	835	Linear Feet	140' Prestressed Concrete Beam, Type FIB-63
2650	804-C200	(S)	1,114	Linear Feet	75' Prestressed Concrete Beam, Type FIB-36
2660	804-C201	(S)	2,453	Linear Feet	95' Prestressed Concrete Beam, Type FIB-36
2670	804-C207	(S)	895	Linear Feet	150' Prestressed Concrete Beam, Type FIB-63
2680	804-C208	(S)	1,428	Linear Feet	60' Prestressed Concrete Beam, Type FIB-36
2690	804-C272	(S)	1,315	Linear Feet	102' Prestressed Concrete Beam, Type FIB-45
2700	805-A001	(S)	1,762,719	Pounds	Reinforcement
2710	805-C001	(S)	62,348	Pounds	Reinforcement, Corrosion Resistant
2720	813-A004	(S)	8,334	Linear Feet	Concrete Railing, 36"
2730	815-A002	(S)	3,199	Ton	Loose Riprap, Size 100
2740	815-A007	(S)	37,122	Ton	Loose Riprap, Size 300
2750	815-E001	(S)	33,507	Square Yard	Geotextile under Riprap
2760	907-803-B001	(S)	11	Each	Conventional Static Pile Load Test [\$5,000.00]
2770	907-803-I003	(S)	1	Each	PDA Test Pile, HP Steel Pile
2780	907-803-I004	(S)	23	Each	PDA Test Pile, Steel Pipe Pile
2790	907-803-J001	(S)	24	Each	Pile Restrike
2800	907-804-A001	(S)	5,635	Cubic Yard	Bridge Concrete, Class BDx
2810	907-804-A002	(S)	2,718	Cubic Yard	Bridge Concrete, Class AA
2820	907-809-A001	(S)	6,305	Square Feet	Retaining Wall System
2830	907-823-A001		738	Linear Feet	Preformed Joint Seal, Type I
2840	907-823-A002		416	Linear Feet	Preformed Joint Seal, Type II

ADDENDUM

STATE	PROJECT NO.
MISS	STP-0019-02(065)

SUMMARY OF QUANTITIES (SHEET 1)

PAY ITEM NO.	PAY ITEM	UNIT	LAFAYETTE : 102168-301000 PrelimFinal
201-A001	Clearing and Grubbing	LS	1
201-B001	Clearing and Grubbing	ACRE	11
202-A001	Removal of Obstructions	LS	1
202-B004	Removal of Asphalt Driveways, All Depths	SY	14,841
202-B007	Removal of Asphalt Pavement, All Depths	SY	37,082
202-B016	Removal of Box Bridge	LF	129
202-B019	Removal of Box Culvert	LF	209
202-B023	Removal of Bridge	EA	3
202-B039	Removal of Cable Barrier	LF	393
202-B040	Removal of Cable Barrier Terminal Section	EA	1
202-B052	Removal of Concrete Driveways, All Depths	SY	287
202-B059	Removal of Concrete Median & Island Pavement, All Depths	SY	660
202-B063	Removal of Concrete Paved Ditch	SY	6,526
202-B073	Removal of Concrete Pavement, All Depths	SY	2,574
202-B080	Removal of Concrete Sidewalk	SY	252
202-B088	Removal of Curb & Gutter, All Types	LF	7,457
202-B129	Removal of Flared End Section, All Sizes	EA	10
202-B158	Removal of Guard Rail, Including Rails, Posts and Terminal Ends	LF	1,965
202-B164	Removal of Inlet and Junction Box, All Types & Sizes	EA	5
202-B178	Removal of Low Mast Lighting Assembly and Foundation	EA	14
202-B191	Removal of Pipe, 8" And Above	LF	3,016
202-B204	Removal of Retaining Wall	LF	395
203-A001	Unclassified Excavation, FM, AH	CY	781,690
203-EX020	Borrow Excavation, AH, FME, Class B9	CY	1,598,642
203-G001	Excess Excavation, FM, AH	CY	27,134
206-A001	Structure Excavation	CY	10,211
206-B001	Select Material for Undercuts, Contractor Furnished, FM	CY	928
907-207-A001	Settlement Plate	EA	4
209-A005	Geotextile Stabilization, Type V, Non-Woven	SY	48,223
211-B001	Topsoil for Slope Treatment, Contractor Furnished	CY	42,091
213-C001	Superphosphate	TON	79
216-A001	Solid Sodding	SY	17,114
217-A001	Ditch Liner	SY	10,362
219-A001	Watering	KGAL	346
220-A001	Insect Pest Control	ACRE	78
221-A001	Concrete Paved Ditch	CY	2,477
223-A001	Mowing	ACRE	156
225-A001	Grassing	ACRE	157
225-B001	Agricultural Limestone	TON	78
225-C001	Mulch, Vegetative Mulch	TON	313
226-A001	Temporary Grassing	ACRE	317
229-A001	Erosion Mat	SY	17,253
907-234-A001	Temporary Silt Fence	LF	141,050
907-234-D001	Inlet Siltation Guard	EA	35

① INCLUDES 24 CY FOR PAVED APRON, INCLUDES 2,255 CY FOR DITCH TREATMENT, AND INCLUDES 200 CY FOR PAVED FLUME

② FOR TEMPORARY CONSTRUCTION EASEMENTS

③ INCLUDES 84' OF 4'X4' RCBC, 37' OF 3'X3' RCBC, AND 88' OF 6'X4' RCBC

④ INCLUDES REMOVAL OF CONCRETE PAVEMENT IN PARKING LOTS AND TO INCLUDE ANY ASPHALT OVERLAYS ON PARKING LOTS

⑤ INCLUDES REMOVAL OF GUARDHOUSE AT VILLAGES BLVD AND REMOVAL OF GRAND OAKS SIGN STRUCTURE BRIDGE NO. 111.9 (5@40'), BRIDGE 112.1 (13@40') AND BRIDGE NO. 112.4 (1@40, 1@60', 1@280'(80'-120'-80'), 2@40')

⑦ INCLUDES 5359 CY FOR PIPE CULVERTS, 3910 CY FOR BOX CULVERTS, AND 942 CY FOR BOX BRIDGES

⑧ PAY ITEM INCLUDES REMOVAL, STORAGE AND RESETTling OF EXISTING LIGHTING POLES; MODIFICATIONS TO EXISTING CONCRETE PULLBOX SLABS; AND REMOVAL OF EXISTING LIGHTING FOUNDATION TO A MINIMUM OF 1' BELOW GRADE.

⑨ INCLUDES 770 CY FOR BOX CULVERTS AND 158 CY FOR BOX BRIDGES

⑩ INCLUDES TEMPORARY GRASSING FOR TWO APPLICATIONS

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

By

SM

Revision

QUANTITIES

PROJ NO: STP-0019-02(065)
COUNTY: LAFAVETTE

MAINEBLACKBURNSTATE ENGINEERING & CONSULTANTS INC.1977

08/15/2025Working Number

09/15/2025	Date	Design Team	GARVER
FILENAME: SQS		Checked	TWE
Date		SEP 2025	
PROJ NO: STP-0019-02(065) COUNTY: LAFAYETTE			
ADDED AND REVISID	QUANTITIES	Revision	By
SM			

ADDENDUM

SUMMARY OF QUANTITIES (SHEET 2)				
PAY ITEM NO.	PAY ITEM	UNIT	LAFAYETTE : 102168-301000	
			Prelim	Final
907-234-E001	Reset Inlet Siltation Guard	EA	35	
235-A001	Temporary Erosion Checks	EA	2,372	
236-A008	Silt Basin, Type D	EA	50	
237-A002	Wattles, 20"	LF	17,950	
239-A001	Temporary Slope Drains	LF	17,857	
245-A001	Silt Dike	LF	4,997	
246-A001	Sandbags	LF	53,710	
247-A001	Temporary Stream Diversion	EA	16	2
249-A001	Riprap for Erosion Control	TON	7,560	
249-B001	Remove and Reset Riprap	CY	3,640	
907-253-A001	Coir Fiber Baffle	LF	8,778	
304-C004	Granular Material, AEA, Class 5, Group D	CY	29,200	2
304-C008	Granular Material, AEA, Class 9, Group B	CY	62,000	2
304-F001	3/4" and Down Crushed Stone Base	TON	24,650	3 10 2
	OR			
304-F002	Size 610 Crushed Stone Base	TON	24,650	3 10 2
	OR			
304-F003	Size 825B Crushed Stone Base	TON	24,650	
307-B003	6" Soil-Lime-Water Mixing, Class B	SY	160,311	3 10 2
307-D001	Lime	TON	2,164	
307-S001	Bituminous Curing Seal	GAL	40,078	
308-A001	Cement	TON	4,369	1
308-B002	Soil-Cement-Water Mixing, Optional Mixers, Base	SY	259,020	
308-B003	Soil-Cement-Water Mixing, Optional Mixers, Design Soil	SY	160,311	
308-S001	Bituminous Curing Seal	GAL	64,755	2
907-403-A002	12.5-mm, MT, Asphalt Pavement	TON	26,616	5
907-403-A003	12.5-mm, ST, Asphalt Pavement	TON	3,837	
907-403-A005	19-mm, MT, Asphalt Pavement	TON	31,152	
907-403-A006	19-mm, ST, Asphalt Pavement	TON	36,934	
907-403-A014	9.5-mm, MT, Asphalt Pavement	TON	27,193	4
907-403-A015	9.5-mm, ST, Asphalt Pavement	TON	641	
907-403-B002	12.5-mm, MT, Asphalt Pavement, Leveling	TON	106	
406-D001	Fine Milling of Bituminous Pavement, All Depths	SY	92,735	
407-A001	Asphalt for Tack Coat	GAL	61,519	
907-413-E001	Sawing and Sealing Transverse Joints in Asphalt Pavement	LF	1,200	
423-A001	Rumble Strips, Ground In	MI	14	
907-501-A001	6" Reinforced Cement Concrete Pavement, Broom Finish	SY	497	2
501-E001	Expansion Joints, Without Dowels	LF	11	9
501-K001	Transverse Grooving	SY	376	
907-502-A001	Reinforced Cement Concrete Bridge End Pavement	SY	2,739	2
503-C010	Saw Cut, Full Depth	LF	9,500	
907-601-A001	Class "B" Structural Concrete	CY	3,416	8 2
907-601-B001	Class "B" Structural Concrete, Minor Structures	CY	224	6 2
602-A001	Reinforcing Steel	LBS	641,464	7

STATE	PROJECT NO.
MISS	STP-0019-02(065)

- 1 INCLUDES 1356 TON FOR DESIGN SOIL AND 3013 TON FOR GRANULAR MATERIAL
- 2 FOR TREATMENT OF GRANULAR MATERIAL
- 3 INCLUDES 20% INCREASE FROM CALCULATED QUANTITY
- 4 INCLUDES 621 TON FOR DRIVEWAYS
- 5 INCLUDES 828 TON FOR DRIVEWAYS
- 6 INCLUDES 165.63 CY FOR PIPE CULVERT MINOR STRUCTURES, 2.16 CY FOR BOX CULVERT MINOR STRUCTURES, 0.90 CY FOR BOX BRIDGE MINOR STRUCTURES, 43.70 CY FOR JUNCTION BOXES, 7.10 CY FOR DIRECTIONAL SIGN FOOTINGS, AND 4.50 CY FOR STANDARD SIGN FOOTINGS
- 7 INCLUDES 13,472 LBS FOR PIPE CULVERT MINOR STRUCTURES, 512,609 FOR BOX CULVERTS, 110,842 FOR BOX BRIDGES, 3205 LBS FOR JUNCTION BOXES, 1336 LBS FOR DIRECTIONAL SIGN FOOTINGS
- 8 INCLUDES 2,763.18 CY FOR BOX CULVERTS AND 652.86 CY FOR BOX BRIDGES
- 9 TO BE USED AS SHOWN ON SHEET DOM-1
- 10 INCLUDES 1000 TONS TO BE USED AS DIRECTED BY PROJECT ENGINEER



MISSISSIPPI DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

ADDED AND REVISED QUANTITIES

SM

By

Revision

PROJ NO: STP-0019-02(065)
COUNTY: LAFAYETTE

09/15/2025
Working Number

SQ-2

FILENAME: SQS
Design Team GAAVER

Checked TMG
Date SEP 2025

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ADDENDUM

STATE	PROJECT NO.
MISS	STP-0019-02(065)

SUMMARY OF QUANTITIES (SHEET 3)

PAY ITEM NO.	PAY ITEM	UNIT	LAFAYETTE : 102168-301000	
			Prelim	Final
603-A045	24" Steel Pipe, Jacked or Bored	LF	104	
603-A046	30" Steel Pipe, Jacked or Bored	LF	96	
603-A049	48" Steel Pipe, Jacked or Bored	LF	104	
603-ALT003	18" Type A Alternate Pipe	LF	4,722	
603-ALT006	24" Type A Alternate Pipe	LF	552	
603-ALT009	30" Type A Alternate Pipe	LF	184	
603-ALT011	36" Type A Alternate Pipe	LF	232	
603-ALT013	36" x 23" Type A Alternate Pipe	LF	40	
603-ALT017	51" x 31" Type A Alternate Pipe	LF	56	
603-ALT021	73" x 45" Type A Alternate Pipe	LF	384	
603-CA011	18" Reinforced Concrete Pipe, Class III	LF	4,840	
603-CA013	18" Reinforced Concrete Pipe, Class IV	LF	432	
603-CA026	24" Reinforced Concrete Pipe, Class III	LF	2,207	
603-CA040	30" Reinforced Concrete Pipe, Class III	LF	380	
603-CA042	30" Reinforced Concrete Pipe, Class IV	LF	664	
603-CA048	30" Reinforced Concrete Pipe, Class V	LF	136	
603-CA055	36" Reinforced Concrete Pipe, Class III	LF	16	
603-CA066	42" Reinforced Concrete Pipe, Class III	LF	96	
603-CA068	42" Reinforced Concrete Pipe, Class IV	LF	744	
603-CA073	42" Reinforced Concrete Pipe, Class V, Class B Bedding	LF	720	
603-CA076	48" Reinforced Concrete Pipe, Class III	LF	240	
603-CA084	48" Reinforced Concrete Pipe, Class V, Class B Bedding	LF	328	
603-CA087	54" Reinforced Concrete Pipe, Class III	LF	120	
603-CA095	54" Reinforced Concrete Pipe, Class V, Class B Bedding	LF	104	
603-CA099	60" Reinforced Concrete Pipe, Class III	LF	880	
603-CB003	18" Reinforced Concrete End Section	EA	48	
603-CB004	24" Reinforced Concrete End Section	EA	31	
603-CB005	30" Reinforced Concrete End Section	EA	13	
603-CB006	36" Reinforced Concrete End Section	EA	2	
603-CB007	42" Reinforced Concrete End Section	EA	14	
603-CB008	48" Reinforced Concrete End Section	EA	5	
603-CB009	54" Reinforced Concrete End Section	EA	2	
603-CB010	60" Reinforced Concrete End Section	EA	9	
603-CE002	22" x 13" Concrete Arch Pipe, Class A III	LF	224	
603-CE008	29" x 18" Concrete Arch Pipe, Class A III	LF	32	
603-CE013	36" x 23" Concrete Arch Pipe, Class A III	LF	128	
603-CE034	65" x 40" Concrete Arch Pipe, Class A III	LF	488	
603-CF002	22" x 13" Concrete Arch Pipe End Section	EA	3	
603-CF003	29" x 18" Concrete Arch Pipe End Section	EA	2	
603-CF004	36" x 23" Concrete Arch Pipe End Section	EA	3	
603-CF008	65" x 40" Concrete Arch Pipe End Section	EA	4	
604-A001	Castings	LBS	1,952	
604-B001	Gratings	LBS	13,100	
605-AA001	Geotextile for Subsurface Drainage, Type III	SY	605	



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	Revision	SUMMARY OF QUANTITIES	
ADDED AND UPDATE PAY ITEMS		PROJ NO: STP-0019-02(065) COUNTY: LAFAYETTE	
Date	07/28/2025	Working Number	SQ-3
Design Team		Checked	Sheet Number
GARVER		TJVB	35
Date SEP 2025		FILENAME: SQS	

- ① INCLUDES 12,350 LBS FOR PIPE CULVERT MINOR STRUCTURES, 500 LBS FOR BOX CULVERT MINOR STRUCTURES, AND 250 LBS FOR BOX BRIDGE MINOR STRUCTURES
- ② INCLUDES 1174 LF FOR TEMPORARY CULVERTS AND STORM SEWER CULVERTS, 3048 LF FOR SIDE DRAINS, AND 500 LF TO BE USED AS DIRECTED BY PROJECT ENGINEER
- ③ INCLUDES 144 LF FOR TEMPORARY CULVERTS AND 408 LF FOR SIDE DRAINS
- ④ INCLUDES 160 LF FOR SIDE DRAINS

ADDENDUM

STATE	PROJECT NO.
MISS	STP-0019-02(065)

- 1

TO BE PLACED AS DIRECTED BY THE PROJECT ENGINEER
- 2

INCLUDES 98LF FOR BARRIER ON DMB-1 AND DMB-2
- 3

INCLUDES CAPPING OR MODIFYING EXISTING INLETS

SUMMARY OF QUANTITIES (SHEET 4)				
PAY ITEM NO.	PAY ITEM	UNIT	LAFAYETTE : 102168-301000	
			Prelim	Final
605-O002	4" Perforated Sewer Pipe for Underdrains, SDR 23.5	LF	1,088	
605-P002	4" Non-perforated Sewer Pipe for Underdrains, SDR 23.5	LF	132	
605-W001	Filter Material for Combination Storm Drain and/or Underdrains,Type A, FM	CY	40	
605-W002	Filter Material for Combination Storm Drain and/or Underdrains,Type B, FM	CY	524	
	OR			
605-W003	Filter Material for Combination Storm Drain and/or Underdrains,Type C, FM	CY	524	
606-A003	Guard Posts	EA	162	
606-B001	Guard Rail, Class A, Type 1	LF	2,463	
606-C003	Guard Rail, Cable Anchor, Type 1	EA	2	
606-D022	Guard Rail, Bridge End Section, Type I	EA	24	
606-E005	Guard Rail, Terminal End Section, Flared	EA	24	
609-B002	Concrete Curb, Header	LF	140	
609-B003	Concrete Curb, Special Design	LF	1,654	
609-D003	Combination Concrete Curb and Gutter Type 2	LF	11,677	
609-D004	Combination Concrete Curb and Gutter Type 2 Modified	LF	2,171	
609-D008	Combination Concrete Curb and Gutter Type 3A	LF	380	
609-D012	Combination Concrete Curb and Gutter Type 3A Modified	LF	15,284	
609-D013	Combination Concrete Curb and Gutter Type 3B	LF	3,334	
609-D014	Combination Concrete Curb and Gutter Type 3B Modified	LF	2,165	
610-A001	Cable Barrier	LF	270	
610-B001	Cable Barrier Terminal Section	EA	1	
612-A001	Flowable Fill, Excavatable	CY	100	
613-D003	Adjustment of Inlet	EA	7	3
614-A001	Concrete Driveway, Without Reinforcement	SY	3,025	
615-A011	Concrete Type I Cast-in-Place Median Barrier, 42" High	LF	564	
615-A022	Concrete Type IV Modified Cast-in-Place Median Barrier	LF	573	2
615-A024	Concrete Bridge End Barrier, 37.5"	LF	538	2 2
616-A001	Concrete Median and/or Island Pavement, 10-inch	SY	7,375	
616-A004	Concrete Median and/or Island Pavement, 4-inch	SY	2,956	
617-A001	Right-of-Way Marker	EA	338	
907-618-A001	Maintenance of Traffic	LS	1	
619-A1001	Temporary Traffic Stripe, Continuous White	MI	33	2
619-A2001	Temporary Traffic Stripe, Continuous Yellow	MI	30	2
619-A3001	Temporary Traffic Stripe, Skip White	MI	14	
619-A5001	Temporary Traffic Stripe, Detail	LF	90,191	2
619-A6002	Temporary Traffic Stripe, Legend	LF	1,753	2
619-C7001	Two-Way Yellow Reflective High Performance Raised Marker	EA	1,062	2
619-C9001	One-Way Yellow Reflective High Performance Raised Marker	EA	75	
619-D1001	Standard Roadside Construction Signs, Less than 10 Square Feet	SF	121	
619-D2001	Standard Roadside Construction Signs, 10 Square Feet or More	SF	4,179	
619-D3001	Remove and Reset Signs, All Sizes	EA	894	
619-E1001	Flashing Arrow Panel, Type C	EA	1	
907-619-E3001	Changeable Message Sign	EA	5	1
619-F1001	Concrete Median Barrier, Precast	LF	478	



ADDED AND REVISED QUANTITIES	Revision	MISSISSIPPI DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES	
SM	BY	PROJ NO: STP-0019-02(065) COUNTY: LAFAYETTE	
		09/15/2025 Working Number	SQ-4
		09/15/2025 Date	
		Design Team	Sheet Number
		GARVER	36
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		TMG	



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STATE	PROJECT NO.
MISS	STP-0019-02(065)

SUMMARY OF QUANTITIES (SHEET 5)

PAY ITEM NO.	PAY ITEM	UNIT	LAFAYETTE : 102168-301000	
			Prelim	Final
619-F3001	Delineators, Guard Rail, White	EA	88	
619-F3002	Delineators, Guard Rail, Yellow	EA	66	
619-G4001	Barricades, Type III, Double Faced	LF	246	
619-G4005	Barricades, Type III, Single Faced	LF	3,342	
619-G5001	Free Standing Plastic Drums	EA	203	
619-G7001	Warning Lights, Type "B"	EA	33	
619-G8001	Warning Lights, Type "C"	EA	38	
619-J1002	Impact Attenuator, 45 MPH	EA	3	
619-J2002	Impact Attenuator, 45 MPH, Replacement Package	EA	3	
620-A001	Mobilization	LS	1	
621-A001	Field Laboratory	EA	1	
907-626-A007	6" Thermoplastic Double Drop Traffic Stripe, Skip White	MI	15	①
907-626-C012	6" Thermoplastic Double Drop Edge Stripe, Continuous White	MI	17	②
907-626-E003	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow	MI	2	
907-626-F003	6" Thermoplastic Double Drop Edge Stripe, Continuous Yellow	MI	11	③
907-626-G006	Thermoplastic Double Drop Detail Stripe, White	LF	99,874	
907-626-G007	Thermoplastic Double Drop Detail Stripe, Yellow	LF	38,329	
907-626-H006	Thermoplastic Double Drop Legend, White	SF	5,862	
907-626-H007	Thermoplastic Double Drop Legend, White	LF	1,753	
907-627-J001	Two-Way Clear Reflective High Performance Raised Markers	EA	547	
907-627-K001	Red-Clear Reflective High Performance Raised Markers	EA	3,668	
907-627-L001	Two-Way Yellow Reflective High Performance Raised Markers	EA	514	
629-A001	Vehicular Impact Attenuator, 40 MPH	EA	1	⑤
629-A004	Vehicular Impact Attenuator, 60 MPH	EA	2	②
629-B001	Median Barrier End Section	EA	2	④
630-A001	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness	SF	485	
630-A003	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness	SF	2,378	
630-B002	Interstate Directional Signs, Bolted Extruded Aluminum Panels, Ground Mounted	SF	438	
630-C001	Square Tube Posts, 4.0 lb/ft	LF	855	
630-C005	Square Tube Posts, 2.0 lb/ft	LF	3,481	
630-D010	Structural Steel Beams, W8 x 21	LF	193	
630-E001	Structural Steel Angles & Bars, 3 1/2" x 3 1/2" x 1/4" Angles	LBS	182	
630-E005	Structural Steel Angles & Bars, Aluminum Unistrut	LBS	204	
630-F006	Delineators, Guard Rail, White	EA	88	
630-F007	Delineators, Guard Rail, Yellow	EA	66	
630-F009	Delineators, Median Barrier Mounted, Type I, Yellow	EA	12	
630-F010	Delineators, Post Mounted, Double White	EA	68	
630-F011	Delineators, Post Mounted, Double Yellow	EA	8	
630-F012	Delineators, Post Mounted, Single White	EA	65	
630-F013	Delineators, Post Mounted, Single Yellow	EA	13	
630-G005	Type 3 Object Markers, OM-3R or OM-3L, Post Mounted	EA	20	
907-632-A007	Solid State Traffic Cabinet Assembly, Type III Cabinet, Type 1 Controller	EA	3	
907-632-J001	Power Service Pedestal	EA	3	
907-634-A042	Traffic Signal Equipment Pole, Type II(L), 30' Shaft, 30' Arm	EA	1	



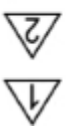
SM	ADDED AND REVISED QUANTITIES	By	Revision
MISSISSIPPI DEPARTMENT OF TRANSPORTATION			
SUMMARY OF QUANTITIES			
PROJ NO: STP-0019-02(065) COUNTY: LAFAYETTE		09/15/2025 Working Number SQ-5	
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STATE	PROJECT NO.
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SUMMARY OF QUANTITIES (SHEET 6)

PAY ITEM NO.	PAY ITEM	UNIT	LAFAYETTE : 102168-301000	
			Prelim	Final
907-634-A044	Traffic Signal Equipment Pole, Type II(L), 30' Shaft, 40' Arm	EA	3	
907-634-A045	Traffic Signal Equipment Pole, Type II(L), 30' Shaft, 45' Arm	EA	2	
907-634-A047	Traffic Signal Equipment Pole, Type II(L), 30' Shaft, 55' Arm	EA	3	
907-634-A048	Traffic Signal Equipment Pole, Type II(L), 30' Shaft, 60' Arm	EA	1	
907-634-A247	Traffic Signal Equipment Pole, Type III(L), 30' Shaft, 35' & 60' Arm	EA	1	
907-634-A539	Traffic Signal Equipment Pole, Type V, 10' Shaft	EA	10	
907-634-C001	Pole Foundations, Class "B" Concrete	CY	34	
635-A059	Traffic Signal Head, Type 1	EA	16	4
635-A060	Traffic Signal Head, Type 1A	EA	4	4
635-A061	Traffic Signal Head, Type 2	EA	11	4
635-A063	Traffic Signal Head, Type 2R	EA	6	4
635-A069	Traffic Signal Head, Type 2U	EA	2	4
907-636-B003	Electric Cable, Underground in Conduit, IMSA 20-1, AWG 10, 2 Conductor	LF	2,688	5 6
907-636-B016	Electric Cable, Underground in Conduit, IMSA 20-1, AWG 14, 8 Conductor	LF	10,026	5
907-636-B028	Electric Cable, Underground in Conduit, IMSA 20-1, AWG 8, 3 Conductor	LF	742	5 7
907-637-A002	Pullbox Enclosure, Type 2	EA	22	
907-637-A003	Pullbox Enclosure, Type 3	EA	4	
907-637-C028	Traffic Signal Conduit, Underground, Type 4, 2"	LF	1,259	2
907-637-C030	Traffic Signal Conduit, Underground, Type 4, 3"	LF	1,562	
907-637-D003	Traffic Signal Conduit, Underground Drilled or Jacked, Rolled Pipe, 3"	LF	1,148	
907-641-A002	Signal Stop Bar Radar Vehicle Detection Sensor, Type 2	EA	11	8
907-641-B002	Signal Advanced Radar Vehicle Detection Sensor, Type 2	EA	6	8
907-641-D001	Radar Vehicle Detection Cable	LF	6,645	9
907-641-F002	Signal Radar Vehicle Detection Processor, Type 2	EA	3	
647-A001	Removal of Existing Traffic Signal Equipment	LS	1	10
907-650-A004	On Street Video Equipment, PTZ Type, Signal Monitoring	EA	2	11
907-653-A001	Traffic Sign	SF	170	
907-653-B001	Street Name Sign	SF	116	
907-661-B002	Fiber Optic Drop Cable, 12 SM	LF	1,050	2
907-662-D002	Radio Interconnect, Broadband, Short Range	EA	2	12
907-663-A001	Network Switch, Type A	EA	2	13 2
907-663-A006	Network Switch, Type F	EA	1	14 2
682-A028	Underground Branch Circuit, AWG 4, 3 Conductor	LF	500	
682-E003	Underground Junction Box With Concrete Pad	EA	2	
907-683-PP001	Lighting Assembly, Per Plans	EA	4	3
684-A003	Pole Foundation, 24" Diameter	CY	16	
684-B003	Slip Casing, 24" Diameter	LF	18	1
699-A001	Roadway Construction Stakes	LS	1	
907-809-A005	Retaining Wall System, Temporary Shoring	SF	981	
815-A007	Loose Riprap, Size 300	TON	19,110	1
815-E001	Geotextile under Riprap	SY	8,003	
815-F002	Sediment Control Stone	TON	2,190	



By	Revision
SM	ADDED AND REVISED QUANTITIES
SJ	ADDED AND UPDATE PAY ITEMS

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

PROJ NO: STP-0019-02(065)
COUNTY: LAFAYETTE

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STATE	PROJECT NO.
MISS.	STP-0019-02(065)

GUARD RAIL REQUIRED														
WK. NO.	STATION	STATE STD. (INSTALL)	GUARD RAIL LENGTHS				GUARD RAIL	TERMINAL SECTION	BRIDGE END SECTION	SINGLE DELINEATORS		DOUBLE DELINEATORS		REMARKS
			DIST. A	DIST.B	DIST. C	DIST. D				WHITE	YELLOW	WHITE	YELLOW	
5	327+84.39	GR-4	168.1458	125.0			250	2	2	7	7			
5	330+55.67	GR-4	168.1458	125.0			250	2	2	7	7			
5	338+04.40	GR-4	168.1458	125.0			250	2	2	7	7			
5	339+95.91	GR-4	168.1458	125.0			250	2	2	7	7			
5	346+85.67	GR-4	168.1458	125.0			250	2	2	7	7			
5E	38+60.87	GR-4	118.1458	75.0			75	1	1	5	5			LT
5E	38+60.87	GR-4	105.6458	62.5			62.5	1	1	5	5			RT
6R	352+77.48	GR-4	168.1458	125.0			250	2	2	7	7			
6R	364+65.00	GR-4	168.1458	125.0			250	2	2	7	7			
6L	369+53.97	GR-4	168.1458	125.0			250	2	2	7	7			
8R	1217+84.00						50							CR 401 Closure
14R	1403+18.41	GR-4	168.1458	125.0			125	1	1	7	7			
14L	1406+15.59	GR-4	168.1458	125.0			125	1	1	7	7			
6R	370+14.31	TGR-2	98.7916	12.5			12.5	2	2	4	4			Temporary
14L	1403+62.41	TGR-2	98.7916	12.5			12.5	2	2	4	4			Temporary
		Total:					2462.5	24	24	88	66			

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BRIDGE END PAVEMENT REQUIRED																				
WK. NO.	BRIDGE ABUT. STATION	W ₁	W ₂	W _B	W	A	B	ANGLE "Z"	PAV'MT.	JOINT	TRANSVERSE GROOVING	37.5" RAIL	TYPE "A" FILTER MATERIAL	TYPE "B" OR "C" FILTER MATERIAL	4" PERFORATED DRAIN PIPE	4" NON- PERFORATED DRAIN PIPE	GEOTEXTILE TYPE III FABRIC	EDGE DRAIN OUTLET	REMARKS	
5	327+59.71	18	34	52.00	54.84	20.00	20.00	16	118.75	57.05	18.03	20	2.22	28.44	60.00	6.00	33.33	0.73	Over SR 9	
5	327+84.39	18	22	40.00	42.84	13.86	26.14	16	92.05	44.57	13.87	20	1.78	22.21	48.00	6.00	26.67	0.73	Over SR 9	
5	330+55.67	18	34	52.00	54.84	13.16	26.83	14	118.69	56.52	17.86	20	2.22	28.44	60.00	6.00	33.33	0.73	Over SR 9	
5	330+77.11	18	22	40.00	42.84	14.66	25.34	14	92.05	44.15	13.74	20	1.78	22.21	48.00	6.00	26.67	0.73	Over SR 9	
5	337+52.45	18	22	40.00	42.84	10.00	35.74	31	104.81	49.98	15.56	20	1.78	22.21	48.00	6.00	26.67	0.73	Murray Realign	
5	338+04.60	18	22	40.00	42.84	10.00	35.74	31	104.81	49.98	15.56	20	1.78	22.21	48.00	6.00	26.67	0.73	Murray Realign	
5	339+96.39	18	22	40.00	42.84	10.00	33.75	29	100.39	48.98	15.24	20	1.78	22.21	48.00	6.00	26.67	0.73	Murray Realign	
5	340+45.86	18	22	40.00	42.84	10.00	33.75	29	100.39	48.98	15.24	20	1.78	22.21	48.00	6.00	26.67	0.73	Murray Realign	
5	346+31.32	18	22	40.00	42.84	10.00	36.77	32	107.10	50.52	15.72	20	1.78	22.21	48.00	6.00	26.67	0.73	Existing Murray	
5	346+85.67	18	34	52.00	54.84	10.00	44.27	32	159.95	64.67	20.44	20	2.22	28.44	60.00	6.00	33.33	0.73	Existing Murray	
5E	38+60.33	10	22	32.00	34.84	15.00	24.99	16	74.26	36.24	11.10	20	1.48	18.07	40.00	6.00	22.22	0.73	Murray Realign	
5E	40+87.67	10	22	32.00	34.84	15.00	24.99	16	74.26	36.24	11.10	20	1.48	18.07	40.00	6.00	22.22	0.73	Murray Realign	
6R	352+77.48	18	22	40.00	42.84	10.00	32.78	28	98.23	48.52	15.10	20	1.78	22.21	48.00	6.00	26.67	0.73	Existing Murray	
6R	353+24.75	18	34	52.00	54.84	10.00	37.94	27	141.66	61.55	19.45	20	2.22	28.44	60.00	6.00	33.33	0.73	Existing Murray	
6R	364+65.00	18	22	40.00	42.84	10.00	40.00	35	114.28	52.30	16.28	20	1.78	22.21	48.00	6.00	26.67	0.73	Yocona	
6R	370+26.95	18	22	40.00	42.84	10.00	40.00	35	114.28	52.30	16.28	20	1.78	22.21	48.00	6.00	26.67	0.73	Yocona	
6L	364+01.99	18	22	40.00	42.84	10.00	40.00	35	114.28	52.30	16.28	20	1.78	22.21	48.00	6.00	26.67	0.73	Yocona	
6L	369+53.97	18	22	40.00	42.84	10.00	40.00	35	114.28	52.30	16.28	20	1.78	22.21	48.00	6.00	26.67	0.73	Yocona	
14R	1403+18.41	18	22	49.00	51.84	10.00	61.84	45	198.74	73.31	23.10	20	1.78	26.88	48.00	6.00	26.67	0.73	Burney Branch	
14L	1403+82.41	18	22	49.00	51.84	10.00	61.84	45	198.74	73.31	23.10	20	1.78	26.88	48.00	6.00	26.67	0.73	Burney Branch	
14R	1405+51.59	18	22	49.00	51.84	10.00	61.84	45	198.74	73.31	23.10	20	1.78	26.88	48.00	6.00	26.67	0.73	Burney Branch	
14L	1406+15.59	18	22	49.00	51.84	10.00	61.84	45	198.74	73.31	23.10	20	1.78	26.88	48.00	6.00	26.67	0.73	Burney Branch	
UNITS										LIN. FT.	SQ. YDS.	LIN. FT.	CU. YDS.	CU. YDS.	LIN. FT.	SQ. YDS.				
TOTALS										1200	376	440	40.32	523.94	1088.00	132.00	604.48			
																		CU.		
																		16.06		

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ESTIMATED QUANTITIES

GUARDRAIL &
BRIDGE END PAVEMENT

COUNTY: LAFAYETTE
PROJ. NUM.: STP-0019-02(065)

FILENAME: EQ_SH.DGN
DESIGN TEAM: GARVER CHECKED: TWB DATE SEP. 2025

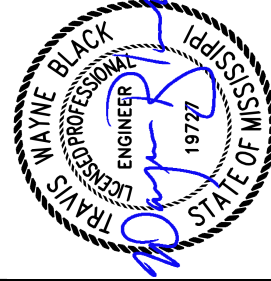
09/15/25
DATE

09/15/25
UPDATED WK. NO.

REVISION

BY

TWB


09/15/2025

EQ-5
WORKING NUMBER

43
SHEET NUMBER

STATE	PROJECT NO.
MISS.	STP-0019-02(065)

DRIVEWAYS REQUIRED										
WK. NO.	STATION	WIDTH	PAVED AREA (SQ. YDS.)	EXTRA AREA (SQ. YDS.)	ASPHALT 1.5", 9.5mm	ASPHALT 2", 12.5mm	CONCRETE (SQ. YDS.)	GRAN. MAT. CL. 5, GRP D	REMARKS	
9L	1288+53	16	0.0	179.7	14.8	19.8			MED. TEMPORARY	
10R	1280+10	16	26.6	40.9	2.2	2.9		6.8	RT	
10R	1280+12	16	0.0	179.6	0.0	0.0		29.9	MED. TEMPORARY	
10R	1282+36	16	0.0	179.6	0.0	0.0		29.9	MED. TEMPORARY	
10R	1294+17	16	25.9	137.8	2.1	2.9		23.0	RT	
10R	1294+17	16	0.0	176.7	0.0	0.0		29.8	MED. TEMPORARY	
10L	1277+44	16	0.0	176.2	0.0	0.0		29.4	MED. TEMPORARY	
10L	1277+44	16	26.5	833.5	2.2	2.9		138.9	LT	
10L	1282+35	16	26.5	129.8	2.2	2.9		21.6	LT	
10L	1282+35	16	0.0	176.9	0.0	0.0		29.5	MED. TEMPORARY	
10L	1297+00	16	26.5	165.3	0.0	0.0		27.6	LT	
10A	16+08	16	0.0	0.0	0.0	0.0	0.0	0.0	LT	
11R	1317+73	16	0.0	108.4	0.0	0.0		18.1	MED. TEMPORARY	
11R	1317+73	16	0.0	115.3	9.5	12.7			MED. TEMPORARY	
11R	1321+26	0	30.1	156.8	0.0	0.0	156.8		LT	
11R	1324+33	16	26.8	42.4	5.7	7.6			RT	
11R	1324+37	16	0.0	115.4	9.5	12.7			MED. TEMPORARY	
11R	1326+03	16	0.0	115.0	0.0	0.0		19.2	MED. TEMPORARY	
11R	1326+03	16	26.2	102.2	2.2	2.9		17.0	RT	
11R	1326+83	16	0.0	114.8	0.0	0.0		19.1	MED. TEMPORARY	
11L	1303+35	16	0.0	174.2	0.0	0.0		29.0	MED. TEMPORARY	
11L	1304+32	16	37.3	246.6	3.1	4.1		41.1	LT	
11L	1304+32	16	0.0	154.0	0.0	0.0		25.7	MED. TEMPORARY	
11L	1306+74	16	0.0	139.6	0.0	0.0		23.3	MED. TEMPORARY	
11L	1306+74	16	26.5	148.9	2.2	2.9		24.8	LT	
11L	1308+11	16	26.5	220.5	2.2	2.9		36.8	LT	
11L	1321+26	20	30.1	156.8	2.5	3.3	156.8		LT	
11L	1321+26	16	0.0	111.9	0.0	0.0		111.9	MED. TEMPORARY	
11L	1327+50	16	26.5	181.1	17.1	22.8			LT	
11L	1327+52	16	0.0	111.4	9.2	12.3			MED. TEMPORARY	
12R	1331+01	16	26.5	140.7	13.8	18.4			RT	
12R	1331+01	16	0.0	116.3	9.6	12.8			MED. TEMPORARY	
12R	1333+75	16	26.5	183.1	2.2	2.9		30.5	RT	
12R	1333+75	16	0.0	115.8	0.0	0.0		19.3	MED. TEMPORARY	
12R	1366+89	24	0.0	157.0	13.0	17.3			MED. TEMPORARY	
12R	1366+89	30	39.0	318.9	29.5	39.4			RT	
12L	1331+78	16	0.0	112.7	0.0	0.0		18.8	MED. TEMPORARY	
12L	1331+78	16	26.5	195.5	2.2	2.9		32.6	LT	
12L	1343+50	24	0.0	168.0	0.0	0.0		28.0	MED. TEMPORARY	
12L	1343+50	16	26.5	187.9	2.2	2.9		31.3	LT	
12L	1354+04	16	26.5	224.8	2.2	2.9		37.5	LT	
12L	1354+04	16	0.0	96.6	0.0	0.0		16.1	MED. TEMPORARY	
12L	1357+50	16	0.0	111.0	0.0	0.0		18.5	MED. TEMPORARY	
12L	1357+50	16	26.5	229.6	2.2	2.9		38.3	LT	
12A	3+84	16	10.1	11.5	0.8	1.1		1.9	RT	
12A	4+62	16	10.2	10.8	0.8	1.1		1.8	RT	
12A	5+61	16	10.2	119.2	0.8	1.1		19.9	RT	
12A	11+00	16	0.0	283.3	23.4	31.2			LT	
12A	11+27	16	0.0	62.7	0.0	0.0		10.5	RT	
13L	1372+55	30	39.0	372.0	3.2	4.3	372.0		LT	
13L	1372+55	30	39.0	291.0	3.2	4.3		48.5	MED. TEMPORARY	
13L	1388+39	20	41.5	96.6	3.4	4.6		16.1	LT	
13B	7+05	30	16.3	213.0	1.4	1.8	213.1		RT	
14R	1397+21	40	64.1	262.4	5.3	7.1	262.4		RT	
14R	1399+33	20	0.0	66.6	5.5	7.3			MED. TEMPORARY	
14R	1399+33	20	30.1	126.9	13.1	17.5			RT	
14L	1391+38	20	30.1	240.8	22.4	29.8			LT	
14L	1392+10	20	30.1	153.8	15.2	20.2			LT	
14L	1392+10	20	30.1	153.8	2.5	3.3		25.6	MED. TEMPORARY	
14L	1413+20	16	26.5	226.8	2.2	2.9		37.8	LT	
14B	396+00	22	112.5	207.5	0.0	0.0		34.6	LT	
14B	397+00	18	0.0	756.9	0.0	0.0			LT	
15A	12+71	32	35.1	76.3	9.2	12.3			RT	
15A	14+32	24	39.6	90.0	3.3	4.4	90.0		LT	
15A	16+53	16	37.3	129.8	3.1	4.1		21.6	RT	
15A	16+20	16	37.3	130.1	4.1	3.1		21.7	RT	
UNITS			TON	TON	TON	TON	SQ. YDS.	CU. YDS.		
TOTALS					821.4	828.5	3025.4	2778.0		

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

ESTIMATED QUANTITIES

DRIVEWAYS

09/15/2025

REVISION

BY

TWB

09/15/2025

CHANGED QUANTITY UNIT

DATE

TWB

COUNTY: LAFAYETTE

PROJ. NUM.: STP-0019-02(065)

FILENAME: EQ_SH.DGN

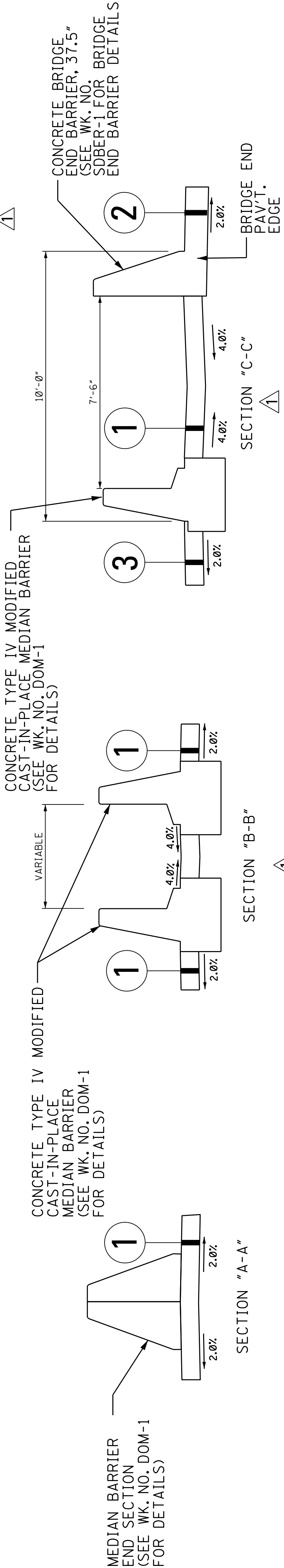
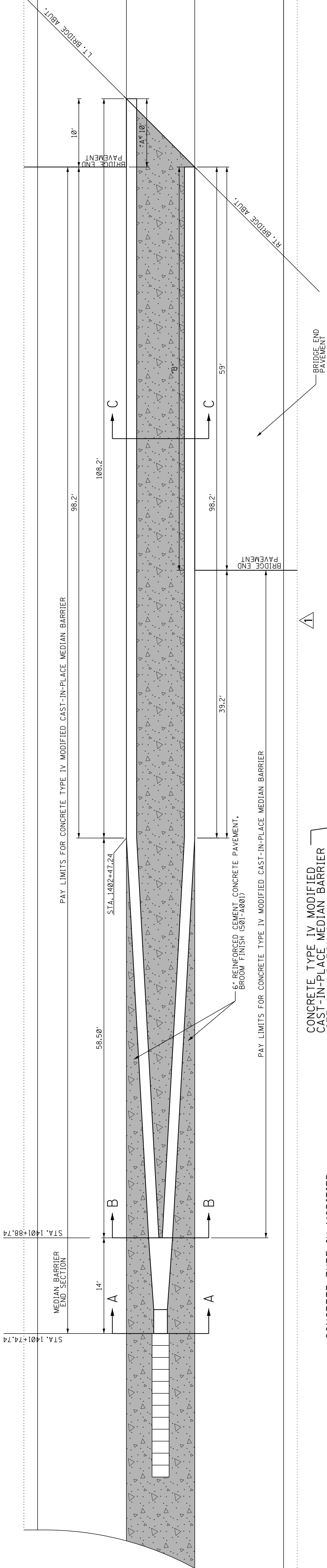
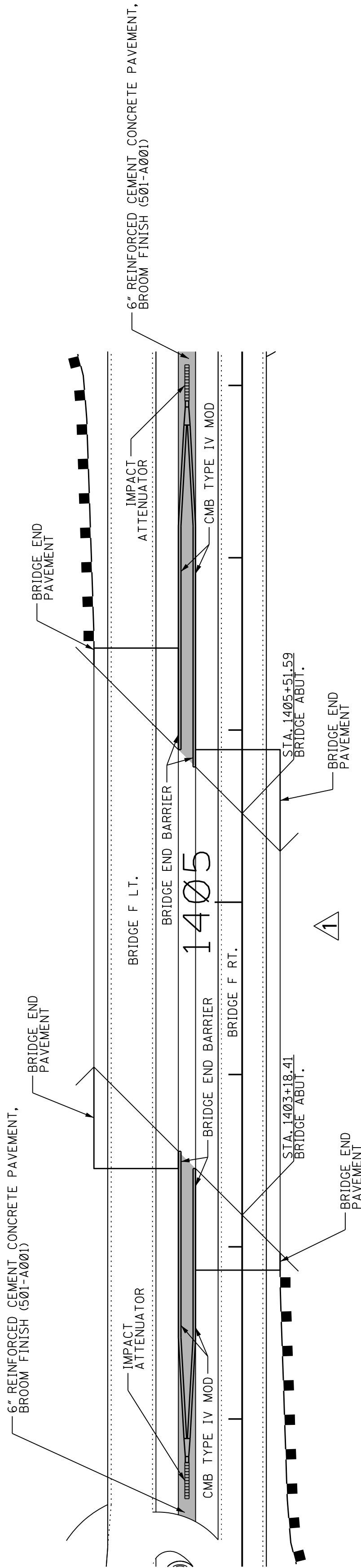
WORKING NUMBER

EQ-10

SHEET NUMBER

48

STATE	PROJECT NO.
MISS.	STP-0019-02(065)



NOTES:
2" X 4" KEYWAY REQ'D. IN AREA OF BRIDGE END PAVEMENT.
6" CONCRETE PAVEMENT (501-A001) REINFORCEMENT SHALL BE 6 X 6 - W1.4 X W1.4 OR 6 X 6 - D1.4 X D1.4 WIRE MESH. THE COST OF THE WIRE MESH TO BE ABSORBED.

DATE	09/15/25	MODIFIED	BARBER	DATE	09/15/2025
DESIGN TEAM	TWB	CHECKED	TWB	FILENAME:	DMB-1&2.DGN
PROJ. NUM.:	STP-0019-02(065)	COUNTY:	LAFAYETTE	WORKING NUMBER	DMB-1
PROJECT NAME:	MEDIAN BARRIER @ BRIDGE F	ENGINEER	WATKINS	STATE OF MISSISSIPPI	1972
PROJECT NO.	STP-0019-02(065)	STATE	MISS.	PROJECT NO.	STP-0019-02(065)

- 1 (6") REINFORCED CEMENT CONCRETE PAVEMENT, BROOM FINISH (501-A001)
- 2 REINFORCED CEMENT CONCRETE BRIDGE END PAVEMENT, (502-A001)
- 3 ASPHALT PAVEMENT

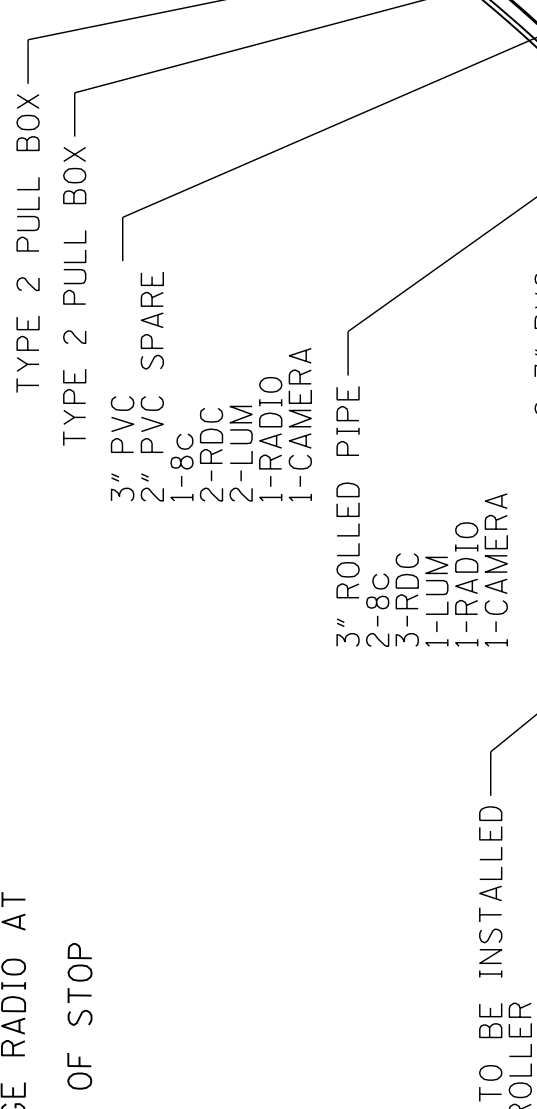
POLE SCHEDULE

POLE NO.	POLE TYPE	SHAFT LENGTH	MAST ARM LENGTH	DIRECTION	SPACING	STREET NAME SIGN LEGEND	FOUNDATION
A	II (L)	30'	60'	SOUTHBOUND	19, 31, 37, 43, 52, 55	GRAND OAKS BLVD. BELK BLVD.	36" X 12'
B	II (L)	30'	55'	WESTBOUND	17, 25, 33, 38, 41	MS HWY 7	36" X 12'
C	II (L)	30'	55'	NORTHBOUND	17, 27, 33, 39, 48, 51	BELK BLVD. GRAND OAKS BLVD.	36" X 12'
D	II (L)	30'	55'	EASTBOUND	15, 22, 30, 35, 38, 47, 50	MS HWY 7	36" X 12'

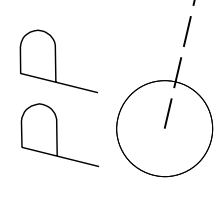
NOTE: COST OF SERVICE POLE TO BE ABSORBED

* FOUNDATION DIAMETERS MAY NEED TO BE ADJUSTED TO ACCOMMODATE SIGNAL POLE BOLT CIRCLES. CONTRACTOR TO PROVIDE ADEQUATE COVER TO ANCHOR BOLTS, AS DICTATED BY ANCHOR BOLTS CIRCLES PROVIDED BY POLE MANUFACTURER.

- NOTES:
- ALL SIGNAL HEADS SHALL BE LED, BLACK IN COLOR, AND EQUIPPED WITH RETRO-REFLECTIVE BACKPLATES AND VISORS.
 - DESIGN WIND SPEED FOR TRAFFIC SIGNAL POLES SHALL BE 90 MPH. ACCORDING TO 2013 AASHTO SPECIFICATIONS. USE FATIGUE CATEGORY II. USE 50 YEAR DESIGN SERVICE LIFE, AND DO NOT CONSIDER GALLOPING OR TRUCK-INDUCED GUSTS, ICE LOADS INCLUDED. TRAFFIC SIGNAL POLES SHALL BE POWDER COATED BLACK.
 - TRAFFIC SIGNAL CONTROLLER AND RADAR DETECTION SENSOR SHALL PROVIDE DYNAMIC ALL RED EXTENSION (DARE) COLLISION AVOIDANCE FUNCTIONALITY ON SR 7. ALL EQUIPMENT, LABOR, AND OTHER INCIDENTAL MATERIALS REQUIRED FOR DARE FUNCTIONALITY SHALL BE COST ABSORBED AS PER TSD-9R.
 - DARE SHALL BE OPERATIONAL PRIOR TO SIGNAL BEING PLACED IN OPERATION.
 - CONTRACTOR RESPONSIBLE FOR PROVIDING POWER FROM POWER SOURCE TO CABINET.
 - PROPOSED TRAFFIC SIGNAL MONITORING CAMERA TO BE MOUNTED ON POLE A SHAFT.
 - SHORT RANGE RADIO TO COMMUNICATE WITH SHORT RANGE RADIO AT SR 7 AT INDUSTRIAL PARK DR/OFFICE PARK DR.
 - SEE PAVEMENT MARKING DETAIL SHEETS FOR LOCATIONS OF STOP BARS.



TYPE A NETWORK SWITCH TO BE INSTALLED IN TRAFFIC SIGNAL CONTROLLER



TYPE 3 PULL BOX

3\"/>

2\"/>

EXISTING SIGNAL POLE TO BE REMOVED

1-8c, 1-RDC

3\"/>

2\"/>

1-RDC

1-LUM

TYPE 2 PULL BOX

3\"/>

2\"/>

1-RDC

1-LUM

EXISTING SIGNAL POLE TO BE REMOVED

1-8c, 1-RDC

1-LUM

TYPE 2 PULL BOX

3\"/>

2\"/>

1-RDC

1-LUM

EXISTING SIGNAL POLE TO BE REMOVED

1-8c, 1-RDC

1-LUM

TYPE 2 PULL BOX

3\"/>

2\"/>

1-RDC

1-LUM

SIGNAL PHASING

PROTECTED ONLY	PROTECTED ONLY	PROTECTED ONLY	PROTECTED ONLY
Ø1	Ø2	Ø3	Ø4
Ø5	Ø6	Ø7	Ø8

FLASHING OPERATION - RED: Ø4 & Ø8
YELLOW: Ø2 & Ø6
MIN. RECALL: Ø2 & Ø6

DETECTOR CHART

Ø/NUMBER	DETECTOR/AMP-CHANNEL	LOCATION PRESENCE
1	RD1	PRIORITY/DARE PER TSD-9R
2	RD2	PRIORITY/DARE PER TSD-9R
3	RD3	PRIORITY/DARE PER TSD-9R
4	RD4	PRIORITY/DARE PER TSD-9R
5	RD5	PRIORITY/DARE PER TSD-9R
6	RD6	PRIORITY/DARE PER TSD-9R
7	RD7	PRIORITY/DARE PER TSD-9R
8	RD8	PRIORITY/DARE PER TSD-9R

DETECTOR NUMBER CORRESPONDS WITH INPUT PHASE NUMBER.

LEFT TURN SIGNAL
R10-10L
(30" X 36")

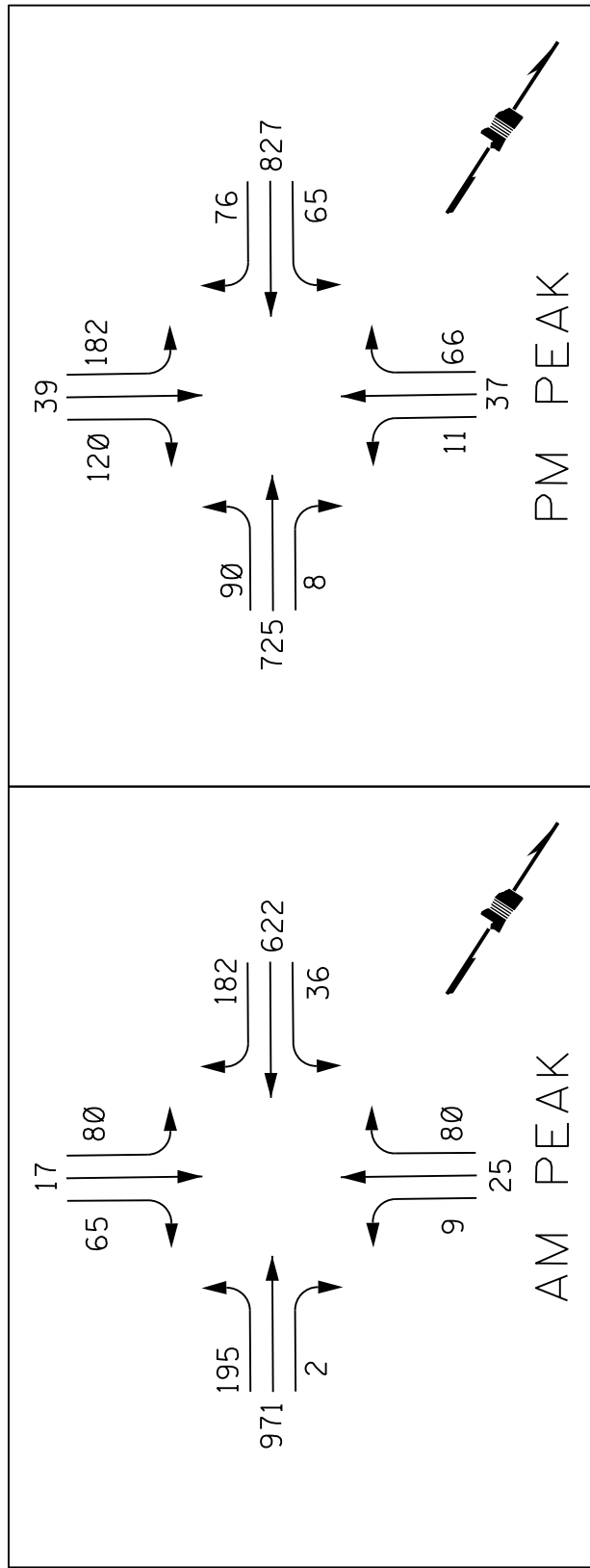
MS HWY 7
6'-0"

Grand Oaks Blvd
Belk Blvd
9'-6"

Grand Oaks Blvd
Belk Blvd
9'-6"

8" UPPER CASE & LOWER CASE LETTERS; SERIES "C" THICKNESS: 0.1" WHITE LETTERS AND BORDER ON GREEN TYPE XI PRISMATIC RETROREFLECTIVE SHEETING STREET NAME SIGNS REQUIRE A MINIMUM OF 2 MOUNTING BRACKETS (30" MAXIMUM SPACING BETWEEN BRACKETS)

2025 BUILD TURNING MOVEMENTS

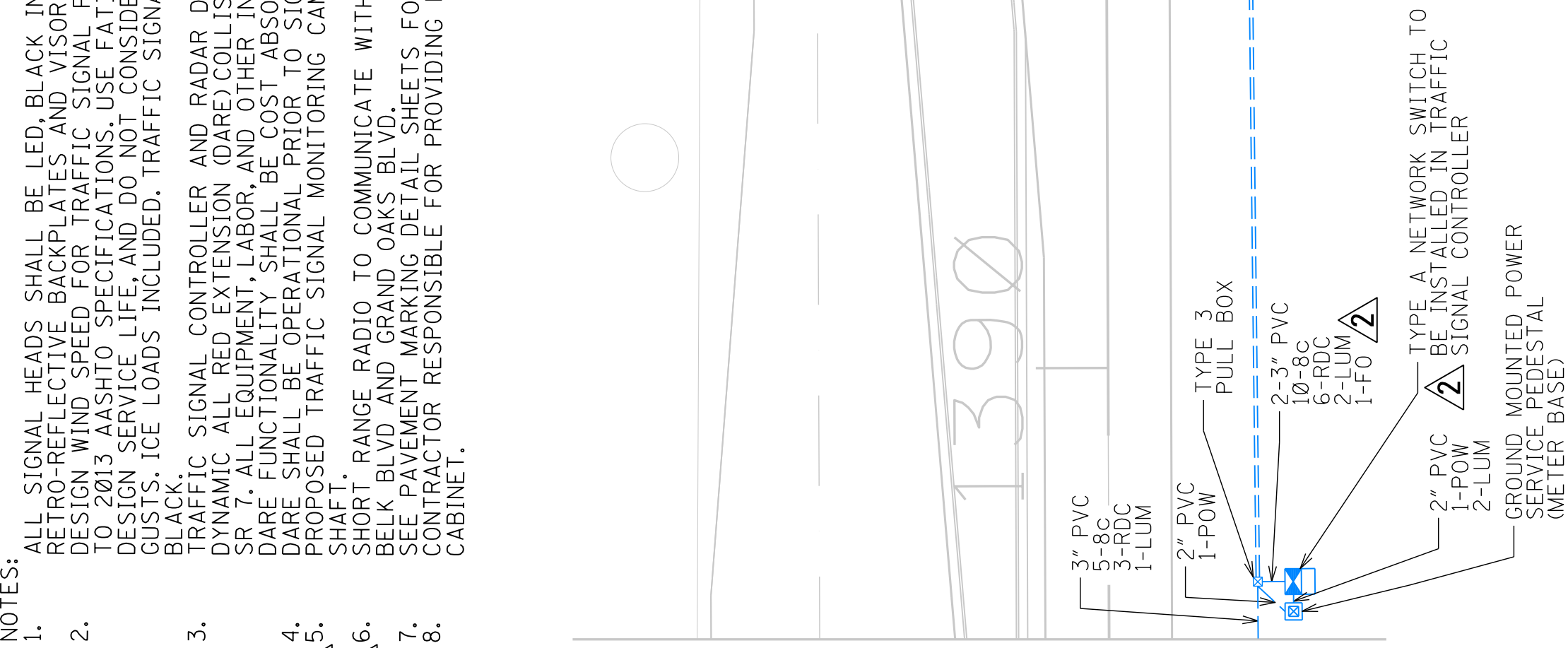
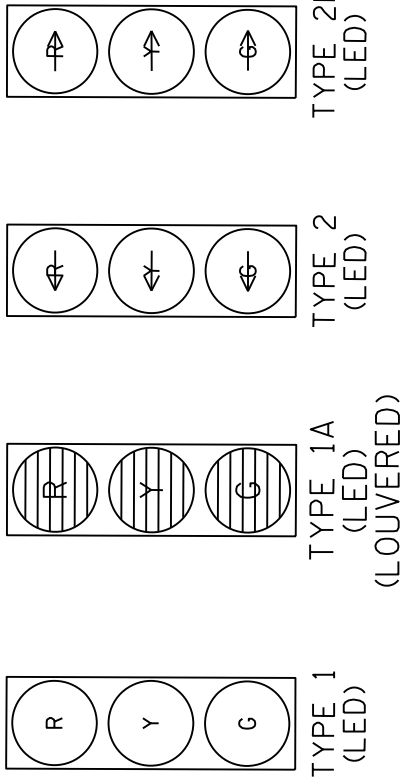


DATE	REVISION	BY
09/15/25	REVISED NETWORK SWITCH & CALLOUTS	AS

MISSISSIPPI DEPARTMENT OF TRANSPORTATION TRAFFIC SIGNAL PLAN		SR 7 Widening SIGNAL LAYOUT	PROJ. NO.: STP-0019-02(065) COUNTY: LAFAYETTE	FILENAME: TSI-01.DGN	DESIGN TEAM	GARVER	CHECKED	CEM	DATE	SEP 2025	SHEET NUMBER	2001
TSI-1												

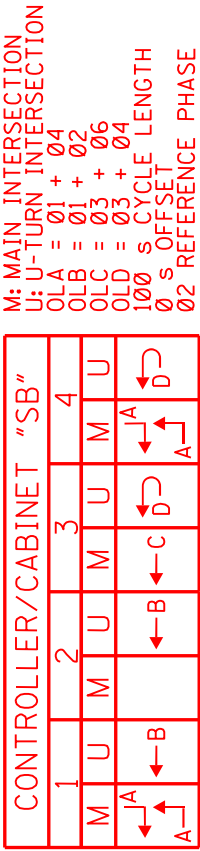
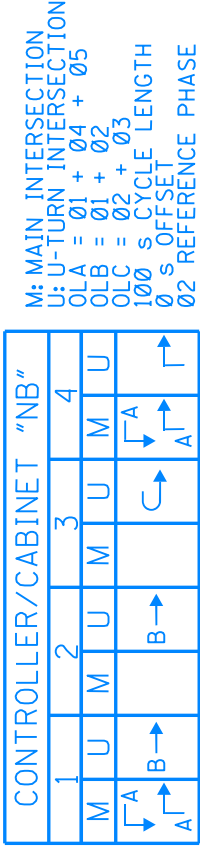
STATE	PROJECT NO.
MISS.	STP-0019-02(065)

- NOTES:
- ALL SIGNAL HEADS SHALL BE LED, BLACK IN COLOR, AND EQUIPPED WITH RETRO-REFLECTIVE BACKPLATES AND VISORS.
 - DESIGN WIND SPEED FOR TRAFFIC SIGNAL POLES SHALL BE 90 MPH, ACCORDING TO 2013 AASHTO SPECIFICATIONS. USE FATIGUE CATEGORY II. USE 50 YEAR DESIGN SERVICE LIFE, AND DO NOT CONSIDER GALLOPING OR TRUCK-INDUCED GUSTS. ICE LOADS INCLUDED. TRAFFIC SIGNAL POLES SHALL BE POWDER COATED BLACK.
 - TRAFFIC SIGNAL CONTROLLER AND RADAR DETECTION SENSOR SHALL PROVIDE DYNAMIC ALL RED EXTENSION (DARE) COLLISION AVOIDANCE FUNCTIONALITY ON SR 7. ALL EQUIPMENT, LABOR, AND OTHER INCIDENTAL MATERIALS REQUIRED FOR DARE FUNCTIONALITY SHALL BE COST ABSORBED AS PER TSD-9R.
 - DARE SHALL BE OPERATIONAL PRIOR TO SIGNAL BEING PLACED IN OPERATION. PROPOSED TRAFFIC SIGNAL MONITORING CAMERA TO BE MOUNTED ON POLE A SHAFT 1.
 - SHORT RANGE RADIO TO COMMUNICATE WITH SHORT RANGE RADIO AT SR 7 AT BELK BLVD AND GRAND OAKS BLVD.
 - SEE PAVEMENT MARKING DETAIL SHEETS FOR LOCATIONS OF STOP BARS.
 - CONTRACTOR RESPONSIBLE FOR PROVIDING POWER FROM POWER SOURCE TO CABINET.

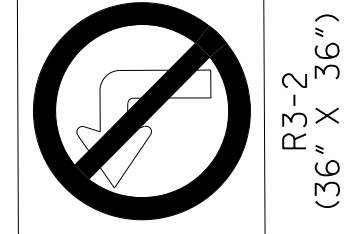


CONTROLLER/CABINET "NB"			
Ø/NUMBER	DETECTOR/AMP-CHANNEL	LOCATION	PRESENCE
1	R01		PRESENCE
2	R02		PRIORITY/DARE PER TSD-9R
3	R03		PRESENCE
4	R04		PRESENCE
5	R05		PRESENCE
6	R06		PRIORITY/DARE PER TSD-9R

DETECTOR NUMBER CORRESPONDS WITH INPUT PHASE NUMBER.



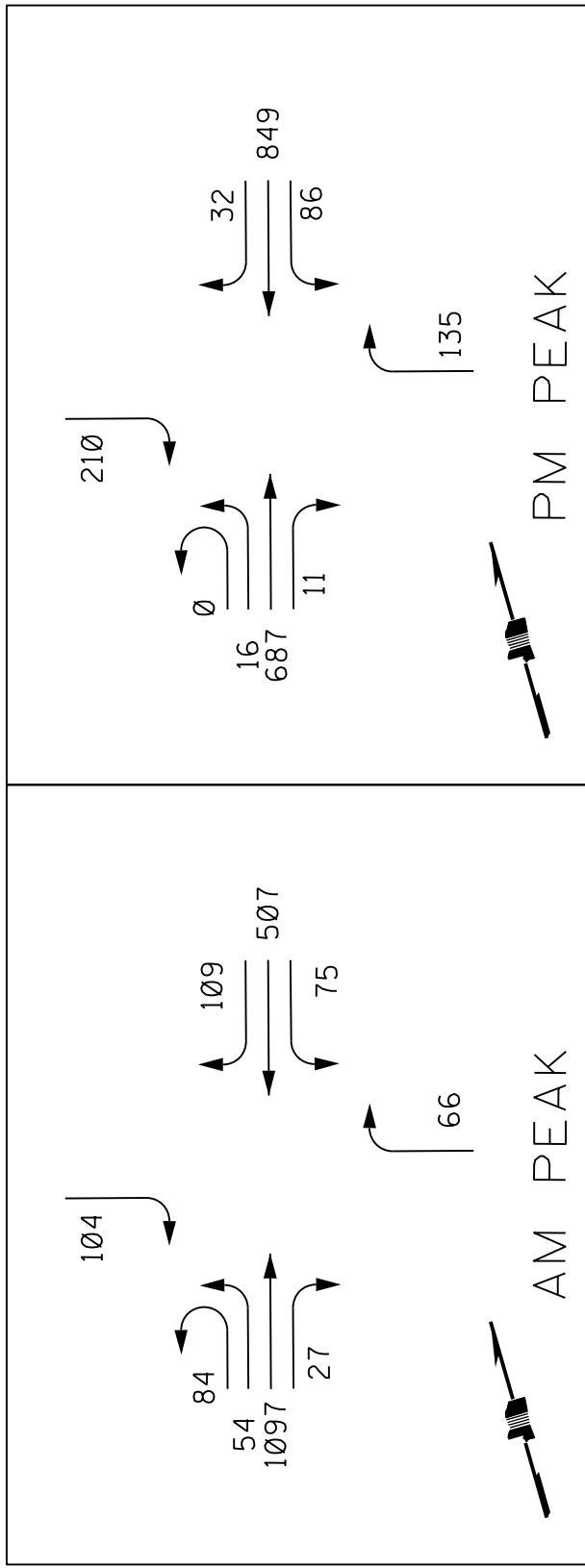
CONTROLLER/CABINET "SB"			
Ø/NUMBER	DETECTOR/AMP-CHANNEL	LOCATION	PRESENCE
1	R01		PRESENCE
2	R02		PRIORITY/DARE PER TSD-9R
3	R03		PRESENCE
4	R04		PRESENCE
6	R05		PRIORITY/DARE PER TSD-9R



POLE SCHEDULE

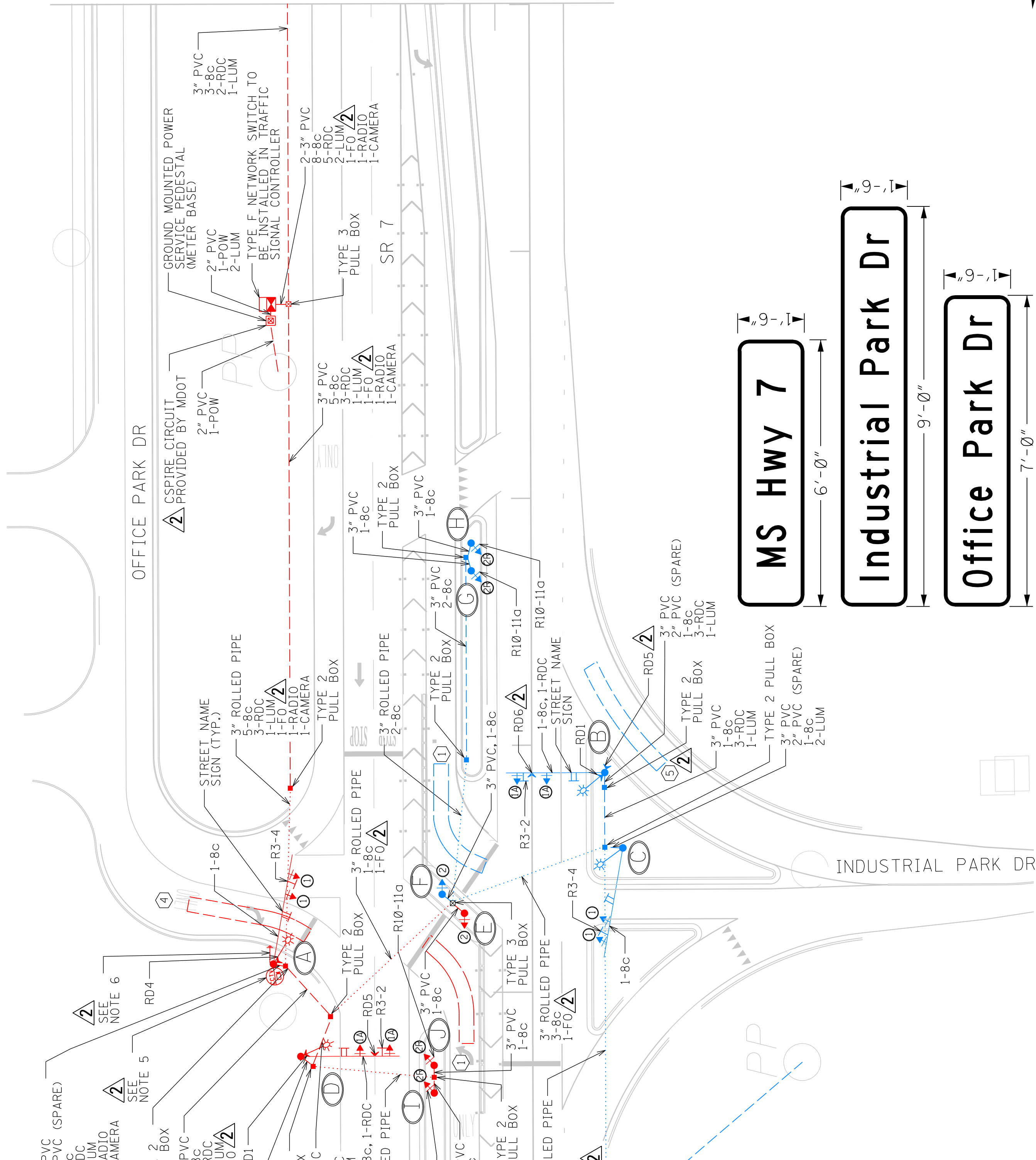
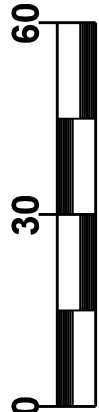
POLE NO.	POLE TYPE	SHAFT LENGTH	MAST ARM LENGTH	DIRECTION	SPACING	STREET NAME SIGN LEGEND	FOUNDATION
A	II (L)	30'	45'	WESTBOUND	21, 29, 34, 37	MS HWY 7	30" X 10'
B	II (L)	30'	40'	NORTHBOUND	13, 24, 30, 33, 36	INDUSTRIAL PARK DR	30" X 10'
C	II (L)	30'	45'	EASTBOUND	22, 31, 36, 39	MS HWY 7	30" X 10'
D	II (L)	30'	40'	SOUTHBOUND	18, 24, 30, 33, 36	OFFICE PARK DR	30" X 10'
E	V	10'	-	NORTHBOUND	-	-	24" X 5'
F	V	10'	-	SOUTHBOUND	-	-	24" X 5'
G	V	10'	-	WESTBOUND	-	-	24" X 5'
H	V	10'	-	EASTBOUND	-	-	24" X 5'
I	V	10'	-	WESTBOUND	-	-	24" X 5'
J	V	10'	-	EASTBOUND	-	-	24" X 5'

NOTE: COST OF SERVICE POLE TO BE ABSORBED.
* FOUNDATION DIAMETERS MAY NEED TO BE ADJUSTED TO ACCOMMODATE SIGNAL POLE BOLT CIRCLES. CONTRACTOR TO PROVIDE ADEQUATE COVER TO ANCHOR BOLTS, AS DICTATED BY ANCHOR BOLTS CIRCLES PROVIDED BY POLE MANUFACTURER.

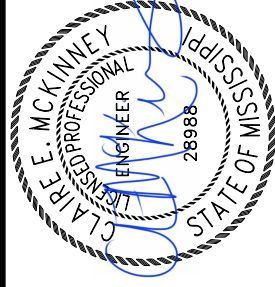


2025 BUILD TURNING MOVEMENTS

8" UPPER CASE & LOWER CASE LETTERS, SERIES "C"
THICKNESS=0.1"
WHITE LETTERS AND BORDER ON GREEN TYPE X1
PRISMATIC RETROREFLECTIVE SHEETING
STREET NAME SIGNS REQUIRE A MINIMUM OF 2 MOUNTING BRACKETS (30" MAXIMUM SPACING BETWEEN BRACKETS)

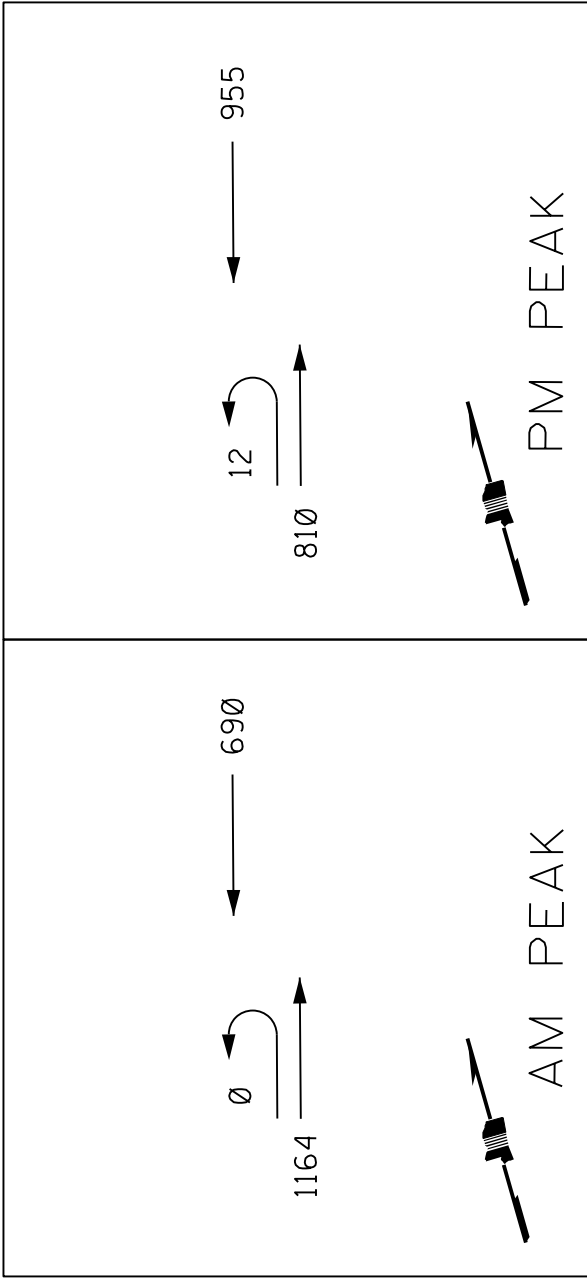


MISSISSIPPI DEPARTMENT OF TRANSPORTATION			
TRAFFIC SIGNAL PLAN			
SR 7 Widening SIGNAL LAYOUT			
PROJ. NO.: STP-0019-02(065) COUNTY: LAFAYETTE			
DATE	REVISION	FILENAME:	DESIGN TEAM
09/15/25	REVISED SIGNAL LAYOUT & CALLOUTS	TSI-02.DGN	GARVER
BY	AS	CHECKED	NDT
WORKING NUMBER			SHEET NUMBER
TSI-2			2002



09/15/2025

2025 BUILD
TURNING MOVEMENTS



MS HWY 7

8" UPPER CASE & LOWER CASE LETTERS; SERIES "C" THICKNESS=0.1" WHITE LETTERS AND BORDER ON GREEN TYPE XI PRISMATIC RETROREFLECTIVE SHEETING STREET NAME SIGNS REQUIRE A MINIMUM OF 2 MOUNTING BRACKETS (30" MAXIMUM SPACING BETWEEN BRACKETS)

POLE SCHEDULE

POLE NO.	POLE TYPE	SHAFT LENGTH	MAST ARM LENGTH	DIRECTION	SPACING	STREET NAME SIGN LEGEND	FOUNDATION
K	III (L)	30'	50'	SOUTHBOUND	45, 51, 54, 57	-	36" X 15'
L	V	10'	35'	WESTBOUND	11, 20, 23, 28, 31	MS HWY 7	-
M	V	10'	-	NORTHBOUND	-	-	24" X 5'
N	II (L)	30'	-	SOUTHBOUND	-	-	24" X 5'
O	V	10'	30'	EASTBOUND	6, 13, 16, 21, 24	MS HWY 7	30" X 10'
P	V	10'	-	WESTBOUND	-	-	24" X 5'
Q	II (L)	30'	40'	NORTHBOUND	20, 27, 31, 34	-	30" X 10'

NOTE: COST OF SERVICE POLE TO BE ABSORBED.
* FOUNDATION DIAMETERS MAY NEED TO BE ADJUSTED TO ACCOMMODATE SIGNAL POLE BOLT CIRCLES; CONTRACTOR TO PROVIDE ADEQUATE COVER TO ANCHOR BOLTS; AS DICTATED BY ANCHOR BOLTS CIRCLES PROVIDED BY POLE MANUFACTURER.

DETECTOR NUMBER CORRESPONDS WITH INPUT PHASE NUMBER.

M: MAIN INTERSECTION
O: L.A. = 01 + 02
O: L.B. = 01 + 02
O: L.C. = 03 + 04
O: L.D. = 03 + 05
O: L.E. = 03 + 06
O: L.F. = 03 + 07
O: L.G. = 03 + 08
O: L.H. = 03 + 09
O: L.I. = 03 + 10
O: L.J. = 03 + 11
O: L.K. = 03 + 12
O: L.L. = 03 + 13
O: L.M. = 03 + 14
O: L.N. = 03 + 15
O: L.O. = 03 + 16
O: L.P. = 03 + 17
O: L.Q. = 03 + 18
O: L.R. = 03 + 19
O: L.S. = 03 + 20
O: L.T. = 03 + 21
O: L.U. = 03 + 22
O: L.V. = 03 + 23
O: L.W. = 03 + 24
O: L.X. = 03 + 25
O: L.Y. = 03 + 26
O: L.Z. = 03 + 27
O: L.AA = 03 + 28
O: L.AB = 03 + 29
O: L.AC = 03 + 30
O: L.AD = 03 + 31
O: L.AE = 03 + 32
O: L.AF = 03 + 33
O: L.AG = 03 + 34
O: L.AH = 03 + 35
O: L.AI = 03 + 36
O: L.AJ = 03 + 37
O: L.AK = 03 + 38
O: L.AL = 03 + 39
O: L.AM = 03 + 40
O: L.AN = 03 + 41
O: L.AO = 03 + 42
O: L.AP = 03 + 43
O: L.AQ = 03 + 44
O: L.AR = 03 + 45
O: L.AT = 03 + 46
O: L.AU = 03 + 47
O: L.AV = 03 + 48
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O: L.AY = 03 + 51
O: L.AZ = 03 + 52
O: L.BA = 03 + 53
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O: L.BC = 03 + 55
O: L.BD = 03 + 56
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O: L.BH = 03 + 60
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O: L.BJ = 03 + 62
O: L.BK = 03 + 63
O: L.BL = 03 + 64
O: L.BM = 03 + 65
O: L.BN = 03 + 66
O: L.BO = 03 + 67
O: L.BP = 03 + 68
O: L.BQ = 03 + 69
O: L.BR = 03 + 70
O: L.BS = 03 + 71
O: L.BT = 03 + 72
O: L.BU = 03 + 73
O: L.BV = 03 + 74
O: L.BW = 03 + 75
O: L.BX = 03 + 76
O: L.BY = 03 + 77
O: L.BZ = 03 + 78
O: L.CA = 03 + 79
O: L.CB = 03 + 80
O: L.CC = 03 + 81
O: L.CD = 03 + 82
O: L.CE = 03 + 83
O: L.CF = 03 + 84
O: L.CG = 03 + 85
O: L.CH = 03 + 86
O: L.CI = 03 + 87
O: L.CJ = 03 + 88
O: L.CK = 03 + 89
O: L.CL = 03 + 90
O: L.CM = 03 + 91
O: L.CN = 03 + 92
O: L.CO = 03 + 93
O: L.CP = 03 + 94
O: L.CQ = 03 + 95
O: L.CR = 03 + 96
O: L.CS = 03 + 97
O: L.CT = 03 + 98
O: L.CU = 03 + 99
O: L.CV = 03 + 100
O: L.CW = 03 + 101
O: L.CX = 03 + 102
O: L.CY = 03 + 103
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O: L.DA = 03 + 105
O: L.DB = 03 + 106
O: L.DC = 03 + 107
O: L.DD = 03 + 108
O: L.DE = 03 + 109
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O: L.DI = 03 + 113
O: L.DJ = 03 + 114
O: L.DK = 03 + 115
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O: L.DN = 03 + 118
O: L.DO = 03 + 119
O: L.DP = 03 + 120
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O: L.EG = 03 + 137
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O: L.EJ = 03 + 140
O: L.EK = 03 + 141
O: L.EL = 03 + 142
O: L.EM = 03 + 143
O: L.EN = 03 + 144
O: L.EO = 03 + 145
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O: L.EQ = 03 + 147
O: L.ER = 03 + 148
O: L.ES = 03 + 149
O: L.ET = 03 + 150
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O: L.EV = 03 + 152
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O: L.GE = 03 + 187
O: L.GF = 03 + 188
O: L.GG = 03 + 189
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O: L.TB = 03 + 521
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O: L.TF = 03 + 525
O: L.TG = 03 + 526
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O: L.TL = 03 + 531
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O: L.TN = 03 + 533
O: L.TO = 03 + 534
O: L.TP = 03 + 535
O: L.TQ = 03 + 536
O: L.TR = 03 + 537
O: L.TS = 03 + 538
O: L.TT = 03 + 539
O: L.TU = 03 + 540
O: L.TV = 03 + 541
O: L.TW = 03 + 542
O: L.TX = 03 + 543
O: L.TY = 03 + 544
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O: L.UG = 03 + 552
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O: L.WQ = 03 + 614
O: L.WR = 03 + 615
O: L.WS = 03 + 616
O: L.WT = 03 + 617
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O: L.XC = 03 + 625
O: L.XD = 03 + 626
O: L.XE = 03 + 627
O: L.XF = 03 + 628
O: L.XG = 03 + 629
O: L.XH = 03 + 630
O: L.XI = 03 + 631
O: L.XJ = 03 + 632
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O: L.XO = 03 + 637
O: L.XP = 03 + 638
O: L.XQ = 03 + 639
O: L.XR = 03 + 640
O: L.XS = 03 + 641
O: L.XT = 03 + 642
O: L.XU = 03 + 643
O: L.XV = 03 + 644
O: L.XW = 03 + 645
O: L.XX = 03 + 646
O: L.XY = 03 + 647
O: L.XZ = 03 + 648
O: L.YA = 03 + 649
O: L.YB = 03 + 650
O: L.YC = 03 + 651
O: L.YD = 03 + 652
O: L.YE = 03 + 653
O: L.YF = 03 + 654
O: L.YG = 03 + 655
O: L.YH = 03 + 656
O: L.YI = 03 + 657
O: L.YJ = 03 + 658
O: L.YK = 03 + 659
O: L.YL = 03 + 660
O: L.YM = 03 + 661
O: L.YN = 03 + 662
O: L.YO = 03 + 663
O: L.YP = 03 + 664
O: L.YQ = 03 + 665
O: L.YR = 03 + 666
O: L.YS = 03 + 667
O: L.YT = 03 + 668
O: L.YU = 03 + 669
O: L.YV = 03 + 670
O: L.YW = 03 + 671
O: L.YX = 03 + 672
O: L.YY = 03 + 673
O: L.YZ = 03 + 674
O: L.ZA = 03 + 675
O: L.ZB = 03 + 676
O: L.ZC = 03 + 677
O: L.ZD = 03 + 678
O: L.ZE = 03 + 679
O: L.ZF = 03 + 680
O: L.ZG = 03 + 681
O: L.ZH = 03 + 682
O: L.ZI = 03 + 683
O: L.ZJ = 03 + 684
O: L.ZK = 03 + 685
O: L.ZL = 03 + 686
O: L.ZM = 03 + 687
O: L.ZN = 03 + 688
O: L.ZO = 03 + 689
O: L.ZP = 03 + 690
O: L.ZQ = 03 + 691
O: L.ZR = 03 + 692
O: L.ZS = 03 + 693
O: L.ZT = 03 + 694
O: L.ZU = 03 + 695
O: L.ZV = 03 + 696
O: L.ZW = 03 + 697
O: L.ZX = 03 + 698
O: L.ZY = 03 + 699
O: L.ZZ = 03 + 700

M: MAIN INTERSECTION
O: L.A. = 01 + 02
O: L.B. = 01 + 02
O: L.C. = 03 + 04
O: L.D. = 03 + 05
O: L.E. = 03 + 06
O: L.F. = 03 + 07
O: L.G. = 03 + 08
O: L.H. = 03 + 09
O: L.I. = 03 + 10
O: L.J. = 03 + 11
O: L.K. =

ADDENDUM

GENERAL NOTES:

Mississippi Standard Specifications for Road and Bridge Construction, 2017. No change of plans will be permitted except by written approval of the Director of Structures, State Bridge Engineer. Minor changes in detail of design or construction procedure may be authorized by the Director of Structures, State Bridge Engineer provided such changes will not be cause for contract price adjustment.

The final surface texture of the bridge deck shall be mechanically transverse grooving in accordance with Sections 501 and 804 of the specifications. See Miscellaneous Span Details for limits of transverse grooving on bridge deck. Bridge concrete shall be class "AA" or Class "BDX" as indicated in plans. Railing expansion joint material shall be bituminous fiber type unless otherwise noted.

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

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

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

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

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

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

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

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

Work for no pay item is provided in the proposal will not be paid for directly and compensation therefor will be included in the prices and payments for bid items.

REQUIRED ULTIMATE PILE BEARING CAPACITY AND TIP ELEVATION SCHEDULE (RIGHT LANE)

Bent No.	Pile type	Pile Size	Min. Tip Elevation	Est. Length L.F.	Req'd Bearing (Tons)	PDA Factor	Controlling Limit State
1R	Steel Pipe Pile 20" Ø, 8" wall thickness	250.0	250.0	80.0	271	0.65	Strength I
2R	Steel Pipe Pile 24" Ø, 8" wall thickness	250.0	250.0	95.0	358	0.65	Strength I
3R	Steel Pipe Pile 24" Ø, 8" wall thickness	250.0	250.0	95.0	358	0.65	Strength I
4R	Steel Pipe Pile 20" Ø, 8" wall thickness	250.0	250.0	75.0	271	0.65	Strength I

REQUIRED ULTIMATE PILE BEARING CAPACITY AND TIP ELEVATION SCHEDULE (LEFT LANE)

Bent No.	Pile type	Pile Size	Min. Tip Elevation	Est. Length L.F.	Req'd Bearing (Tons)	PDA Factor	Controlling Limit State
1L	Steel Pipe Pile 20" Ø, 8" wall thickness	250.0	250.0	80.0	277	0.65	Strength I
2L	Steel Pipe Pile 24" Ø, 8" wall thickness	250.0	250.0	95.0	368	0.65	Strength I
3L	Steel Pipe Pile 24" Ø, 8" wall thickness	250.0	250.0	95.0	368	0.65	Strength I
4L	Steel Pipe Pile 20" Ø, 8" wall thickness	250.0	250.0	75.0	277	0.65	Strength I

ESTIMATED QUANTITIES (RIGHT LANE)

Item	Transverse Grooving	Conventional Static Pile Load Test	20" Diam. Steel Pipe Piling	24" Diam. Steel Pipe Piling	PDA Test Steel Pipe Piling	Pile Restrike	Class AA Bridge Concrete	Class BDX Bridge Concrete	102 Ft. Prest. Conc. Beam FIB-45	Reinforce-ment	Concrete Railing	Loose Riprap (100%)	Geotextile Under Riprap	Performed Joint Seal (Type I)
Location	S.Y.	Each	L.F.	L.F.	Each	Each	C.Y.	C.Y.	L.F.	L.B.	L.F.	TON	S.Y.	L.F.
Span	1176.98		1475		1	1	81.93	360.48	607	84996	588.49	1401	1289	83.8
End Bents										13679				
Int. Bents		1	1045	1045	1	1	108.27			14896				
Total	1176.98	1	1475	1045	2	2	190.19	360.48	607	113571	588.49	1401	1289	83.8

ESTIMATED QUANTITIES (LEFT LANE)

Item	Transverse Grooving	Conventional Static Pile Load Test	20" Diam. Steel Pipe Piling	24" Diam. Steel Pipe Piling	PDA Test Steel Pipe Piling	Pile Restrike	Class AA Bridge Concrete	Class BDX Bridge Concrete	95 Ft. Prest. Conc. Beam FIB-36	Reinforce-ment	Concrete Railing	Loose Riprap (100%)	Geotextile Under Riprap	Performed Joint Seal (Type I)
Location	S.Y.	Each	L.F.	L.F.	Each	Each	C.Y.	C.Y.	L.F.	L.B.	L.F.	TON	S.Y.	L.F.
Span	1569.22		1625		1	1	96.14	464.19	1320.59	108171	588.46	1798	1653	108.8
End Bents										16124				
Int. Bents		1	1235	1235	1	1	131.40			17762				
Total	1569.22	1	1625	1235	2	2	227.55	464.19	1320.59	142057	588.46	1798	1653	108.8

NOTE:

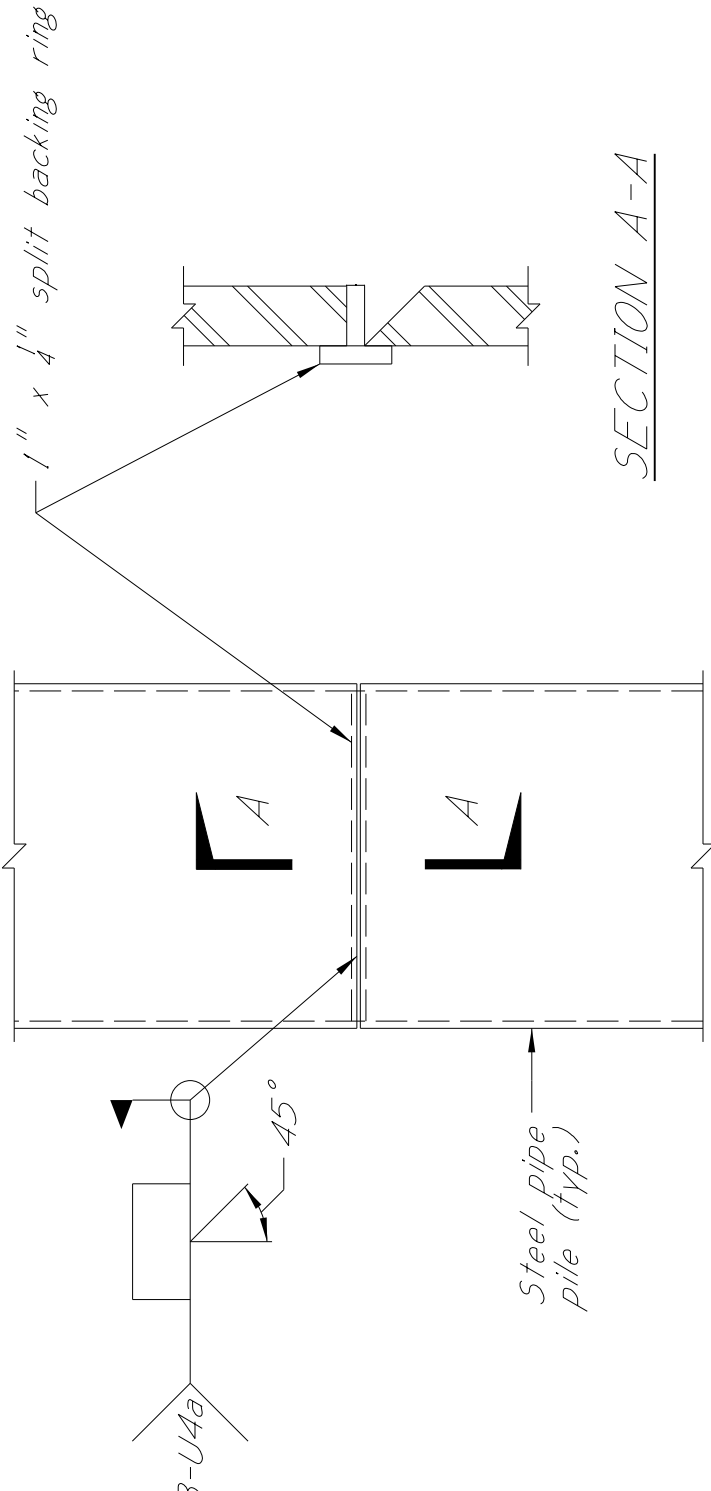
The girder deflection diagrams shown in these plans were prepared and intended for design and estimation purposes only. Actual bridge girder deflections may differ from the deflection diagrams shown in these plans.

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

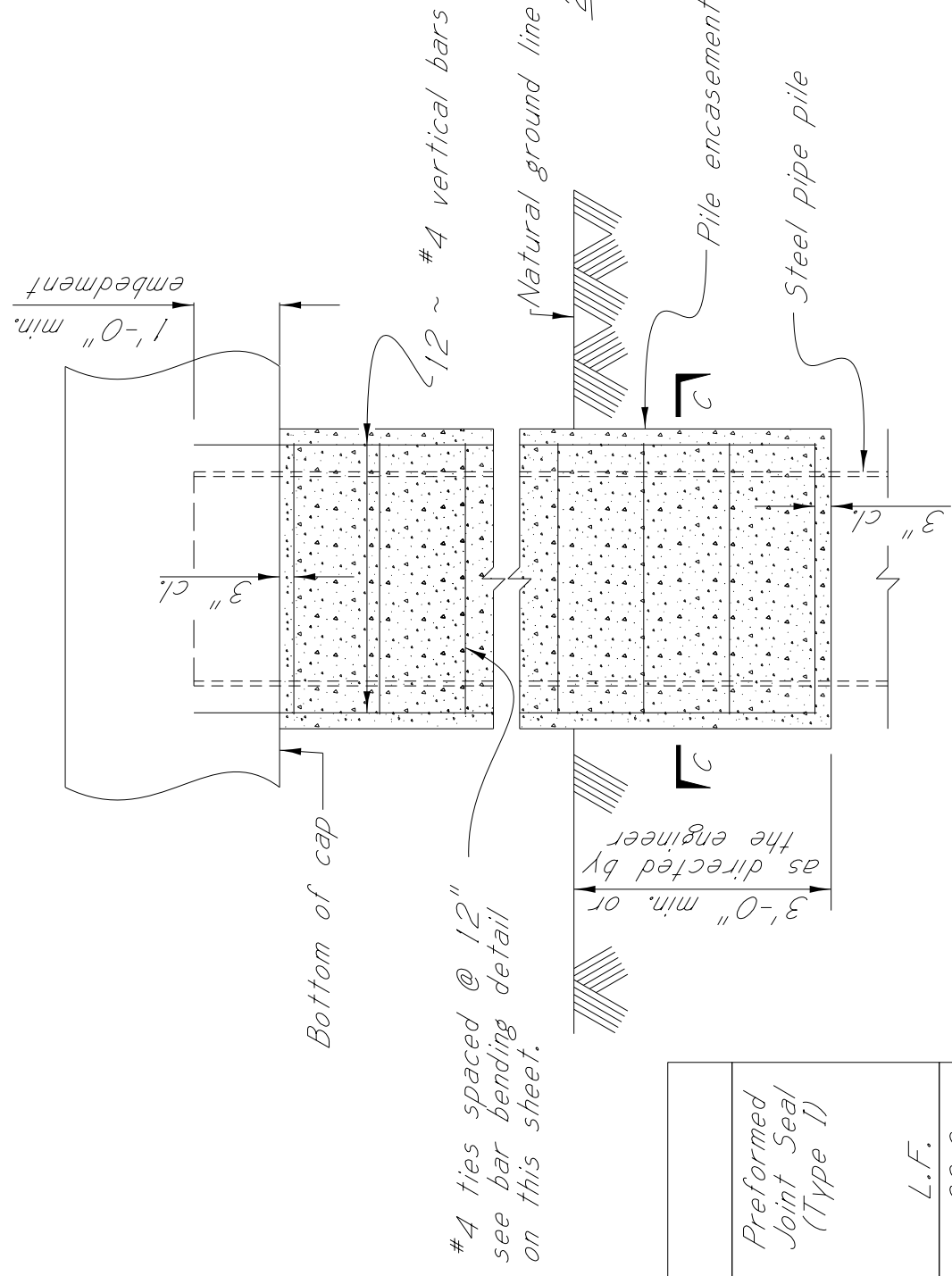
Prior to formwork construction, the Contractor shall submit three (3) copies of a proposed BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN to the Director of Structures, State Bridge Engineer for review, through the Project Engineer. This submittal shall include all calculations, assumptions and parameters used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

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

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



PIPE PILE SPLICING DETAIL
20" Ø & 24" Ø steel pipe piles



PILE ENCASEMENT DETAIL
24" Ø steel pipe piles

NOTE:
Contractor shall provide natural ground line elevation to determine final reinforcement lengths.

NOTE:
Concrete for pile encasement shall be class "AA" and will be paid for as bridge concrete. Class AA concrete with #6 aggregate may be used for pile encasement.



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STEEL PIPE PILE NOTES:

PDA test piles shall be driven with an approved impact hammer as a production pile at the location shown in the PDA TEST PILE SCHEDULE and will be paid for as test piles only. Test Piles shall be driven as a continuous operation. To the tip elevation shown in the PDA TEST PILE SCHEDULE, unless otherwise directed by the Director of Structures, State Bridge Engineer. Permanent piles shall be driven to an elevation no higher than the elevation shown in the REQUIRED ULTIMATE PILE BEARING CAPACITY AND TIP ELEVATION SCHEDULE.

The Director of Structures, State Bridge Engineer may authorize test piles driven outside the structural limits.

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

Welding shall be done by the ELECTRIC ARC process. Welders shall be certified and electrodes shall be approved.

When loading tests are required, the maximum test load shall be one and one half (1 1/2) times the minimum pile bearing capacity. PDA test piles shall require a 1 day restrike unless otherwise directed by the Engineer.

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

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

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

Steel Pipe Piles shall be driven with a maximum rated energy no less than 75,000 ft-lbs to the anticipated tip elevations specified unless the Contractor's Drivability Analysis utilizing the Contractor's selected alternative hammer is approved by the Director of Structures, State Bridge Engineer.

PDA monitored Steel Pipe Piles shall be at least 20'-0" longer than planned production pile lengths and an out of position test pile will not be required.

All Steel Pipe Piles shall be ASTM A252, Grade 3 (Mod), Fy=50,000 psi. Welding shall comply with ANSI/AWS D1.5 Bridge Welding Code and be performed by a certified welder.

The tip elevation of piling for hydraulic structures, may be determined by the scour line, but under no circumstances shall be greater than the minimum tip elevation shown in the REQUIRED ULTIMATE PILE BEARING CAPACITY.

BR	REVISION	DATE	DESIGNER	CHECKER	ISSUE DATE	WORKING NUMBER
		8-21-25	Station: 327+84.68	Josh. Foster	2025-06-11	A1 of A33
			DETAILER	STATE BRIDGE ENGINEER		SHEET NUMBER
			REVIEWER	MISSISSIPPI DEPARTMENT OF TRANSPORTATION		8008

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

BRIDGE AT STA. 327+84.68 RT.

BRIDGE AT STA. 327+59.50 LT.

GENERAL NOTES & ESTIMATED QUANTITIES

FMS:102168 / 301000

COUNTY: LAFAYETTE

PROJECT NUMBER: STP-0019-02(065)