**Call 16 Bridge Repair on SR 609 over Old Fort Bayou, Bridge No. 0.2, known as Federal Aid Project No. BR-9385-00(017) / 107705301 in Jackson County.**

Q1. Are the as-built plans available for this project?

A1. The as-built plans can be downloaded at the following link: https://file-exchange.mdot.state.ms.us/dl/?f=daad56d95dd77285ab3e21c2371ad9815277c869

Q2. Item 810-A006 Structural Steel lists 116,253 LBS of material. Can MDOT provide a table showing what this bid item includes and how this weight was calculated?

A2. The calculations for this pay item can be downloaded at the following link: https://file-exchange.mdot.state.ms.us/dl/?f=99abb033038dce5366a8ff7720871bf1d3ca8c5d

Q3. What is the average amount of openings per month for this bridge?

A3. The average amount of openings per month as recorded in the past year is 18.

Q4. Sheet GN-BR-1, 8003, Note 17 states the Contractor is to furnish a bridge operator and operate the bridge during construction. Does the Contractor take over the operation of the bridge from the start of construction, or from the time the bridge begins operation with the temporary hydraulic system? Also, to what extent is the requirement of the Contractor to operate the bridge?

A4. **1.)** As per subsection 907-851.03.1.3: "Provide a qualified bridge operator for operation, testing, and adjusting of the bridge from the first chargeable workday through final acceptance." In addition: "Provide a foreman, who is qualified to operate the bridge, to supervise its operation, and to make any minor adjustments that may be required to the electrical or mechanical equipment." **2.)** As per subsection 907-851.06.1.6: "Assume responsibility for the operation and all maintenance on the movable bridge as directed by the Engineer."

Q5. Are there any special provisions available for bid item 907-824?

A5. No. All pay items designated "PP" indicate "Per Plans". All information and requirements for these items are contained within the contract plans.

Q6. **1.)** Where is the sewer line to be tied into the sewer main? **2.)** Will the Contractor be allowed to bore the 2" sewer and water lines? **3.)** Who will be responsible for final connections and tie-ins to existing utilities? **4.)** Will the Contractor be required to have a specific permit to tie into the existing utilities?

A6. **1.)** The sewer line will be tied into the sewer main located along the east side of SR 609 near the south abutment of the bridge. **2.)** Yes. **3.)** The City of Ocean Springs will provide

taps. The Contractor will be responsible for making the connection. **4.)** The Contractor will be responsible for any required permits with the City of Ocean Springs. For more information, contact the City of Ocean Springs Public Works Department at 228-875-3955.

Q7. Plan sheet 8059 lists numerous bridge item repairs but does not say how these are paid. It appears it encompasses several different bid items. This is extremely confusing hard to follow. Can MDOT clarify which bid item(s) these are to be paid under? All of the 907 Bridge Repair items were set up as Lump Sum items on this project, but we are not really given a summary of what these items include. We really need a narrative that clearly defines the scope of each item.

A7. See addendum.

Q8. Sheet S-01 shows a "new bicycle, modified grating at existing shoulders (typ.)". Also "remove and replace sidewalk grating with slip resistant aluminum floor plate". Can you provide further detail for these items including dimensions, connection and support details, trim details, material requirements? Also, how are these items to be paid for?

A8. The dimensions for the repairs are found on Plan Sheet S-48 and in the existing as-built plans. The pedestrian sidewalk on the west side of the bascule span width VARIES (3’-9” in the vicinity of the lock bar housing and widens TO 4’-6”) is to be replaced with 1.25” slip resistant aluminum floor planking. Aluminum material is specified in Note 7 on Plan Sheet GN-BR-1. The 3’-0” (each side) wide bicycle modified grating details can be found on Plan Sheet S-49. The pay item for steel grid deck and aluminum sidewalk is 812-A001. See addendum for additional notes regarding slip resistant coating.

Q9. Can MDOT provide more detail and plan elevations with dimensions for the required cabinets and casework for the control house?

A9. Control house furniture dimensions can be found in Special Provision No. 907-258-2 Building Amenities Section 907-258.03.13 Furniture. Regarding electrical enclosures (MCC, control panel, control desk, etc.), the location details can be found in the Control House Equipment Layout (E-09) and Bascule Pier Equipment Layout (E-11). The respective cabinet detail sheets for custom fabricated items (E-13 through E-16 and E-35) include elevation views. These are drawn to scale with critical details dimensioned. Please note that the layouts assume “design basis” equipment. Special Provision 907-852.01.1.3 “Field Verification” requires that the Contractor “perform the detail design of the system as necessary to accommodate the existing bridge structure and proposed electrical equipment.”

Q10. Reference plan sheet E01, Note 2, second paragraph - 'furnish and install new telephone service, wire, and telephone jacks'. Please provide service location and cable make-up details, jack locations, and specifications.

A10. Please coordinate with the telephone company as required in Special Provision 907-852.01.3.1.4 “New Power and Telephone Service” and interface with the existing service

in accordance with the utility company's requirements. The service is brought up to the Control House with the network interface (NI) installed inside. The Contractor shall provide new equipment downstream of the NI. Four (4)-conductor twisted shielded pair shall be used for the listed locations installed. The material listing requirement is covered in Special Provision 907-852.01.1.5 "Materials and Equipment to Install." Provide new jacks adjacent to the new Upper Level counter and Lower Level lockers (at height for wall-mount). Ensure coordination with the final, approved Control House layout (Special Provision 907-852.01.1.4 "Coordination of Electrical Work"). Special Provision 907-852.03.10.2 "Materials" includes information regarding the telephone jacks.

Q11. Reference plan sheet E-40 concerning CCTV. Could we please get specifications for the CCTV system?

A11. See addendum.

Q12. Can MDOT provide a finish schedule and interior elevations per level for the control house?

A12. Elevations per Control House level are found on Contract Plan Sheet 8031. Information on building finishes are found in Special Provision 907-258-2 Building Amenities Section 3.10, Section 3.11, and Sections 13-15.

Q13. Sheet 8059 references 4,862 LF of Cable Rope to be installed, and based on the sheet reference of 8019 it appears this is for the new safety cable. How is this item paid? Is the intent to retrofit the entire pedestrian rail?

A13. See addendum.

Q14. Sheet E-05 indicates that 45KVA transformer X-LP and panelboard LP are located inside the MCC. Sheet E-07 indicates the LP is located inside the control house. Sheet E-09 shows LP inside the control house, outside the MCC. Sheet E-09 does not show X-LP location at all. Sheet E-15 shows X-LP feeder breaker only located in the MCC. Please confirm that LP is located on the control house wall outside of the MCC, and advise where X-LP is to be located.

A14. The lighting panel and transformer are external to the MCC but within the control house/bascule pier electrical rooms, with the transformer located adjacent to the generator suspended from the ceiling as shown on E-11, and the lighting panel located adjacent to the MCC as shown on E-09. Please note that we will review alternative configurations proposed by the Contractor where they do not contravene the specifications and the requirement to locate equipment above flood elevations wherever feasible.

Q15. Par. 907.852.03.19.2.18 says "Size batteries to provide power for load connected plus 25% for the duration shown on the plans." I can't find any duration stated on the plans. Please advise.

A15. The UPS should provide a backup runtime of at least one hour at full UPS rating. Please refer to Note 4 on General Electrical Notes, E-01 Sheet 8201 on the plans.

Q16. **1.)** Note 1 on M-10 sheet no. 8110 - the note mentions that the temporary hydraulic drive assembly can be moved to either leaf as required. How many temporary units are required (1) per leaf or (2) per leaf? **2.)** 907-850.03.4.1.5 Submittal requirements - (2.d) what is the functional load and speed profile of the bridge opening & closing operation for which the cushion calcs need to be created? **3.)** 907-850.03.4.1.5 submittal requirements - (3.a) will drawings be available in AutoCAD format for existing electrical panels to be included in control drawings? **4.)** 907-850.03.4.1.5 submittal requirements - (3.b) how many HPU control panels are required? Should there be (1) local control panel per HPU (2 total), and (1) control console in bridge house?

A16. **1.)** One per leaf if adequate based on the requirements of the TSP, which states the use of a certified fluid power engineer or certified fluid power specialist to prepare or check all calculations required to be performed for detailing the hydraulic system. **2.)** The operating speed shall match the speed of the original main drive system when open to vehicular traffic. **3.)** MDOT will provide unstamped CADD files to the Contractor awarded the project. **4.)** There should be one control panel for the HPU and one control panel for the operator house.

Q17. **1.)** 907-850.03.4.1.5 submittal requirements (5.b) the specs mentions the span lock HPU's but the plans show electrically actuated span locks. Will the span locks be hydraulically activated? **2.)** 907-850.03.4.2.1 hydraulic fluid: The spec mentions standard petroleum based hydraulic oil for the main HPU and biodegradable oil for the span lock HPU. Will the span locks be hydraulically actuated? **3.)** 907-850.03.4.2.4 hydraulic cylinders (L) can the pressure transducers be mounted in the main HPU manifold instead of the directly on the cylinder? **4.)** 907-850.4.3.1 plumbing & fittings **a.)** (B) since the system is temporary, would it be possible to use long hose runs instead of welded pipe or tubing? This is being utilized on a similar system in Ohio with no issues. **b.)** (F) Why is thermal insulation needed for a system located near the Gulf of Mexico? For items 1 & 2, these items could be integral to the reservoir removing the need for any insulation. **5.)** 907-850.03.4.4.6 hydraulic system computer simulation: What program should be utilized for this simulation and is there an example of a similar simulation to base this simulation on? Suggested program would be Automation Studio.

A17. **1.)** Span locks are electrically actuated as shown in plans. **2.)** Span locks are electrically actuated as shown in plans. **3.)** Yes. **4.) a.)** Yes. **b.)** These items should be separated from the reservoir and insulated as per the specifications. **5.)** Use a program with the specific capabilities as provided in the specifications.

Q18. Are the existing bridge barrier rails and sidewalk rail base to be cleaned and painted?

A18. The existing concrete bridge barrier railing does not require painting. The existing steel barrier on the bascule span shall be cleaned and painted. The existing bridge pedestrian (sidewalk) railing is aluminum and does not require painting. The sidewalk rail base

requires cleaning of the corroded anchor bolts to determine the extent of corrosion for replacement of corroded nuts. (Sheet 8019)

Q19. Sheet Number 8202 states to "Trench and Cover to Depth Required by Permit". Can a copy of this permit be made available for the bid?

A19. Please download and refer to the Department of Marine Resources Certificate of Waver regarding this information at the following link: http://mdot.ms.gov/bidsystem_data/20191022/REPORTS/permit107705301.pdf