

Call No. 12 Installing ITS equipment on Interstate 20 and U.S. Highway 84 at the Mississippi River Bridges, known as Federal Aid Project No. ITS-9999-09(028) / 106397301 & 106397302 in Warren and Adams Counties of Mississippi & Madison and Concordia Parishes of Louisiana.

- Q1. Special Provision 907-648-4 is in the contract documents but there are no 907-648 pay items. Is the Wireless Communication specification needed?
- A1. No. The special provision was inadvertently included in the contract documents.
- Q2. Several special provisions reference the 2006 Louisiana Standard Specifications for Roads and Bridges. Where can this be found?
- A2. It can be found at the following ftp site.
<http://ftp.mdot.state.ms.us/ftp/Construction/District 7/April 2013/>
- Q3. 1. Will the Mississippi contractor be required to have a Louisiana contractor's license to bid this project? 2. Will Louisiana do the inspection when work is ongoing in Louisiana?
- A3. **Corrected** 1. No, however the bidder will be required to conform to Louisiana's requirements when working in Louisiana. 2. No.
- Q4. Who in Louisiana do you contact about the taxes?
- A4. Call the Louisiana State Tax Commission.
- Q5. Section 904 Notice to Bidders 4376 states the sixty day burn-in period is included in the Contract Time. Section 907-656.03.2 regarding the DMS signs calls for six month burn-in period. Is the six month burn-in period also included in the Contract Time?
- A5. The six (6) month burn-in period has been revised; see the addendum for this project.
- Q6. 1. Please In reviewing the specification section 666 for electrical cable I had a question, the spec states the cable is to be installed and installation would include all necessary items for installation, trench, conduit, etc Then looking at the plans each location is calling for a conduit (i.e.: 2" roll pipe). Should we include the labor, equipment, and materials as incidental to the wire, or will the conduit installation be paid for separate?
- A6. Conduit installation will be paid separately per linear foot.
- Q7. Per 907-655.02.19, Control of beacons with pager based and cellular based controller components. Are both of these types of controllers required per sign location or will one or the other be used based on what is available in each specified area?

- A7. One or the other will be used based on the available service in each specified area.
- Q8. Plan Sheet 3019 (page 84) shows standard enclosure mounted on pole, however project proposal & contract documents indicate ground-mounted cabinet for HAR 907-655.02.10. Are there plans from DOT to use a mixture of pole mounted and ground mounted cabinets for each specific HAR location? Should each location be consistent and have identical mounting (cabinets and equipment) throughout project?
- A8. Pole-Mounted cabinets, as shown on the plan sheets, should be used throughout the project.
- Q9. Are remote pavement sensors (solar powered/wireless communication) required for any RWIS or Advance Warn Sign location? If so, which ones in particular?
- A9. No.
- Q10. Advance warning signs for each bridge approach 907-664.02.10. Does DOT have plans that show detail of site installation for each location (Natchez and Vicksburg)? Will these locations have AC power available?
- A10. Refer to Notice to Bidders No. 4414—Roadway Weather Information System which advises that the Signs with Flashing Beacons are not required for this project.
- Q11. Proposal and Contract Documents list two fixed color video cameras to capture roadway approach and bridge from RWIS tower. Documents reference cameras are to be mounted on RWIS tower. 907-664.02.7. Site Drawings list 1 PTZ Cameras at RWIS sites versus Documents two fixed cameras. Does DOT have plans that show detail of site installation for each location (Natchez and Vicksburg)? Can a single pan, tilt, zoom (PTZ) camera be substituted for two fixed cameras? Should each location be consistent and have identical style of cameras (fixed or PTZ) throughout project?
- A11. Bidders are to disregard Subsection 904-664.02.7. All cameras shall be located and installed in the locations indicated on the plan drawings.
- Q12. Plans describe Cabinet is to be NEMA 4 aluminum tower or pad mounted. Sheet 33 (page 33) shows tower mounted enclosure under 907-664.02.5. Does DOT have plans that show detail of site installations for each location (Natchez and Vicksburg) to verify if tower mounted or pad mounted? Should each location be consistent and have identical mounting (pole or ground mounted) throughout project?
- A12. At the Natchez location, the RWIS sensor is to be installed on the existing mast arm pole with associated equipment to be installed in existing Communications Hub cabinet as shown on plan sheets. At the Vicksburg location, the RWIS sensor is to be installed as shown on CCTV-2. Associated RWIS equipment may be mounted in the new Pad Mounted Type B cabinet at this location if room is available. If room is not available,

then the Contractor will be responsible for providing an additional cabinet which may be pole mounted if shop drawing submittal of installation is approved.

- Q13. 907-664-2 and Sheet 33. Sheet 20 identifies Vicksburg RWIS location. Sheet 21 identifies Natchez RWIS location. Plans do not show detail of site installation (cabinet and sensor mounting). Plans do not show location or details for the advance warning signs in 907-664.02.10. Are there plans from DOT that show detail of site installation for each location (Natchez and Vicksburg) to include both the RWIS locations and the Advance Warn Sign locations? Can these be provided? Is the expectation that AC power is available at both RWIS stations and each Advance Warn Sign location? Should each location be consistent and have identical mounting (cabinets and sensors) throughout project?
- A13. Refer to NTB 4414. AC power is available at device locations. At the Natchez location, the RWIS sensor is to be installed on the existing mast arm pole with associated equipment to be installed in existing Communications Hub cabinet as shown on plan sheets. At the Vicksburg location, the RWIS sensor is to be installed as shown on CCTV-2. Associated RWIS equipment may be mounted in the new Pad Mounted Type B cabinet at this location if room is available. If room is not available then the Contractor will be responsible for providing an additional cabinet which may be pole mounted if shop drawing submittal of installation is approved.
- Q14. Sheet Number 22, Working Number FO-1 trenching detail – Typical Conduit Bank, shows a spare conduit for future use. Is this required for all installations as stated on the detail?
- A14. The spare conduit shown on the detail will only be required if shown elsewhere in the plans.
- Q15. DMS Site #1, Sheet 3015, does not show an equipment cabinet or controller. Are they required for this site? 2. DMS Site #3, Sheet 3017 shows a Type B DMS Cabinet mounted on the DMS support. Is this correct or should this be a Type C Cabinet?
- A15. 1. DMS Site #1 has a Type 1 LADOTD walk-in enclosure. All components associated with this sign are located within the sign enclosure. Special Provision No. 907-656-7 provides additional details of this walk-in type DMS. 2. LADOTD asked for a pole mounted cabinet at DMS #3 to reduce the overall footprint of the site. The type “B cabinet (pedestal mounted) at Site #3 should be able to house all components associated with this site. GN #2 on WKG. Sheet No. ITS-11 states that if additional cabinet space is required, the contractor shall submit alternate cabinet information to the Engineer for review/approval prior to installation, and the alternate cabinet shall be provided at no additional costs.
- Q16. Will there be any rescue boat required for bridge work, or any portion of bridge work?

- A16. Reference NTB 4383 entitled “Construction Operations on the River” and direct questions about Coast Guard requirements to Mr. David Orzechowski at 314-269-2382.
- Q17. Will the Department provide any geotechnical information to use in the foundation design or will the contractor be responsible for geotech?
- A17. No
- Q18. Sheet 22 of the plan set notes in the trenching detail that a spare conduit for future use (required at all installations). Is this taken into account in the plan quantities or do we need to allow for this above what the plans call for?
- A18. The plan quantities take this into account.
- Q19. Reviewing sheet 3016 in the plan set, there is mention of a leased line DS-3, but do not see any other details regarding the demarcation point or how to access it? Can we get clarification on how to deal with the leased line circuit at this location?
- A19. Communication for this site shall be provided via AT&T Backhaul connection, Contractor shall coordinate with AT&T to provide services at this location.
- Q20. I am working on the HAR beacon signs right now and am having a hard time distinguishing between the Type-I, Type-II, and Type-III on the bid form. The only 2 pay items I am seeing for HAR Beacon Signs on Call 12 are both 907-655-B001 with no other notes concerning the type of sign, and saw no mention of the Type-III Beacon at all, can we get clarification?
- A20. For bid line item 350 – 907-655-A001, HAR Flashing Beacon—there are five (5) Type 2 signs and one (1) Type 1 sign. For bid line item 360 – 907-655-B001, HAR Flashing Beacon, LADOTD --- there are six (6) Type 3 signs.
- Q21. Per 907-655.02.8, Can DOT advise of desired HAR frequency or if adding onto existing FCC license for the state?
- A21. A new HAR frequency will be required for each specific project area of the State.
- Q22. Plan Sheet 3019 (page 84) shows standard enclosure mounted on pole, however project proposal & contract documents indicate ground-mounted cabinet for HAR 907-655.02.10. Are there plans from DOT to use a mixture of pole mounted and ground mounted cabinets for each specific HAR location? Should each location be consistent and have identical mounting (cabinets and equipment) throughout project?
- A22. Pole-mounted cabinets, as shown on the plan sheets, should be used throughout the project.

- Q23. In reviewing the specification section 666 for electrical cable I had a question, the spec states the cable is to be installed and installation would include all necessary items for installation, trench, conduit, etc. Then looking at the plans each location is calling for a conduit (ie: 2" roll pipe). Should we include the labor, equipment, and materials as incidental to the wire, or will the conduit installation be paid for separate?
- A23. Conduit installation will be paid separately per linear foot.
- Q24. We are reviewing the Bid documents for Project ITS-9999-09(028) / 106397301 & 302, for work to be performed in Warren and Adams Counties, Mississippi, as well as work to be performed in Louisiana as well. Section 904 – Notice to Bidders No. 4379, states that 34% of the work will be performed in Mississippi and 66% of the work will be performed in Louisiana. The Q & A documents for this job also state that the contractor must have a Louisiana Contractor’s License to bid the work. We have the following questions: Does the contractor have to have a Louisiana Contractor’s license issued prior to executing the contract? Is the Contractor’s license that is required a Louisiana Electrical Contractors’ license? What happens if the contractor has applied for its Louisiana Contractor’s license prior to bid, and the contractor is awarded contract, but the Contractor’s license is not issued prior to expiration of the time for executing the contracting with MSDOT?
- A24. It is the bidder’s responsibility to inquire of Louisiana and Arkansas and to comply with the requirements of Louisiana and Arkansas when and as applicable. Bidder will not be compensated for any loss of time, expense or profits should prosecution of the work be affected by a failure to obtain the necessary licenses or certifications required. See also revised answer in QandA #3.
- Q25. Plan Sheet 3019 (page 84) shows Triad Ground System for grounding HAR, however project proposal and contract documents indicate horizontal radials of heavy gauge wire or loops extending outward from base of antenna. An alternate ground may be submitted depending on site conditions per the documents 907-655.02.13. Can the Triad Ground system be standardized for use at all proposed HAR locations? Should each location be consistent and have identical grounding throughout project?
- A25. Yes, based on site conditions. It is preferred that each location be consistent throughout the project.
- Q26. Will MDOT be supplying the absent RDS-*pages referenced in the plan sets prior to the bid?
- A26. There aren’t any separate RDS plan sheets; RDS information referenced has been included on existing plan sheets.
- Q27. ITS-1, ITS-3, ITS-6, ITS-20 & ITS-22 General Note 4 indicates that AT&T backhaul connection provides communications. What level of backhaul is required E Metro, T1, DS3 or other? What backhaul service should be assumed if undesignated? This significantly effects both the cost of equipment provided and MDOT’s recurring service

costs. Also for ITS-28 General Note 3, the network switch type D is expected to provide this service. To the best of my knowledge, no piece of equipment exists that meets this specification (the DS3 WAN module is the issue). This necessitates the addition of a costly external DS3 router. What does MDOT advise?

- A27. **Corrected** It is the Contractor's responsibility to provide what is in the project plans and all contract documents inclusive of network switches, routers and AT&T links as described. It is intended that AT&T links and equipment shall be provided that utilize the current AT&T MPLS (i.e. Metro E) network and fiber technology. At locations where AT&T back haul is not indicated in the plans, it is upon the Contractor's responsibility to determine appropriate equipment required to establish communications; it may be assumed that an additional DS3 router be provided at these locations. This should be absorbed in the cost for the Type D switch where applicable. Cisco routers are required at all communication hut locations in the Com Hut NTB. There are DS3 interfaces available for external Cisco Routers. **One (1) DS3 router shall be absorbed in your bid price for 907-658-A004 Hardened Network Switch, Type D.**