

Call 03 Roadway Weather Information System Installation on I-55 Southbound to the Stack at I-20, known as Federal Aid Project No.HSIP-0055-02(241) / 106870301 & 302 in Rankin & Hinds Counties.

- Q1. There is currently an extremely long delivery period for fiber optic cable of 50 weeks to over a year with possible increases for next year. Though the time frame for this project appears to be sufficient if all goes well, would MDOT be willing to increase project days or stop time if the fiber optic delivery period becomes too great?
- A1. A time extension may be considered and the review would be based on when the fiber optic cable was ordered and the delivery schedule.
- Q2. **1.** Concerning the updated contract dates in Add. #1, it shows a notice of award on Nov. 12, 2014 and a notice to proceed on Mar. 12, 2015. Is there any reason why the time from award to NTP so long? Also, concerning the completion date of Sep. 9th, 2015, when taking the 3 month burn period into consideration, all work must be completed by June 9th, giving the contractor just under 3 months to complete all work. **2.** What pay item, if any, will cover the power supply to the flashing light assemblies from the cabinets?
- A2. **1.** It is standard procedure for all jobs let in October. However, an early Notice to Proceed can be requested as per NTB 5195. **2.** Sheet 3032, Power Service Details, note 13... "Cost of aerial or underground power feed, pole, weather head, conduit, conductors, meter base, disconnects, fuses, circuit breakers, and ground to be absorbed in other items
- Q3. Worksheet Number CCCTV-2 (sheet 3022) indicates a 5-foot horizontal mount for the fixed cameras. Is this an error or typo? Would MDOT consider the previously used standard side of pole mounts with approximately 12-14 inches of horizontal distance acceptable for this project?
- A3. This seems to be a typo on the detail sheet. There is no minimum requirement laterally away from the pole. We normally don't show any dimension here. The only lateral distance away from the pole will be based on the size of the bracket arm holding the camera.
- Q4. **1.** Regarding the requirement for a Pavement based "Snow Depth" sensor: Actual Snow Depth would typically be on the roadside, as it cannot be located in the roadway. Does MDOT want a roadside snow depth sensor? **2.** Precipitation Classifier: Is MDOT requesting a falling precipitation classifier (snow, ice, rain, etc.) - this is not typically a "pavement sensor", rather a sensor mounted with the atmospheric on the RWIS assembly (versus a pavement sensor) that would indicate snow, rain, freezing rain, etc.
- A4. **1.** No. **2.** Yes
- Q5. **1.** Plan Sheet Drawings item RWIS Details (Working no. RWIS-1, Sheet no. 3033). a. This sheet calls for the RWIS to have a sensor cabinet (20"X16"X10") mounted on the same structure as the sensors. b. Appears this is the standard RWIS RPU cabinet as used on the last MDOT project with RWIS (MS River ITS). c. The Special Provisions section 907-

664.02.5, page 164 calls out specific requirements for the RWIS cabinet that are a larger roadside cabinet. d. Is the intent of the Special Provision section is to outline the Type B Cabinet for all the incoming power and communications, and keeping in line with RWIS manufacturer requirements, the actual RWIS RPU smaller enclosure is mounted near the RWIS sensors on the bridge? e. Please provide clarification that the RPU & RWIS equipment can be mounted in the Sensor Cabinet per the RWIS Details drawings and not in the Type B cabinet, as listed in the Special Provisions. **2.** Plan Sheet Drawings item Special Post Design for Advance Warning Flashing Assembly (Working no. SSD-1, Sheet no. 12). a. This sheet calls for 8" Yellow Beacons to be provided for signals. b. The Special Provisions section 907-664.02.8, page 166 calls for two (2) twelve (12) inch LED beacons. c. Are the beacons 12" or 8"? **3.** Special Provisions section 907-664.02.8, page 166 calls for flashing beacons to activate from RWIS central processing server site based (RPU). a. If one sign is activated based on temperature threshold settings, should all signs for project turn on at same time? b. If a sign (or all signs) is/are activated for a period of time and the conditions do not change, are signs to continue to flash? c. If signs are expected to flash for duration of event, what constitutes the time-out feature request to turn the signs off (stop flashing)? **4.** Plan Sheet Drawings item Warning Details for Flashing Beacon with Type B cabinet details (Working no. WAR-2, Sheet no. 3035). a. Radio Interconnect TVBR, LARGE RANGE antenna is shown on plans mounted to top of pole. b. The Special Provisions section 907-664.02.8, page 166 outlines Ethernet and wireless communications from central server to remote warning sign sites. c. Will Ethernet be wired into each site or is this wireless only? d. Specific interface wireless controller is not listed. Is there a specific type needed or requested? e. What alternative activation system would be optional for this project? For example, would cellular data modem, pager, wimax, etc. all be acceptable forms of wireless communication or is there a specific communications type desired? f. It appears the locations for the RWIS flashing beacon signs are NOT in line of site from the RWIS or each other... Is this correct? Is there a list of the specific locations for these signs?

A5. **1.** Sheet 3033 is a standard detail sheet for Typical RWIS stations that show a size 20"x16" RWIS control cabinet. We are asking for a Type B traffic cabinet in the Special Provisions for the project. The Type B cabinet should over-ride the standard details.

2. Sheet SSD-1 is a standard flasher detail sheet that show 8" beacons. We are asking for a 12" beacon in the special provisions for the project. The 12" Beacons should over-ride the standard details.

3. a) We expect the beacons to all activate at once when our warning conditions are met.

b) We expect the beacons to continue flashing if our warning conditions to continue.

c) the time out feature would be user-defined (we need to ability to turn them off remotely or automatically if the warning conditions are no longer met for example during a freezing event, once temperature rise the beacons may automatically switch off, or we can manually turn them on or off from the TMC.)

4. a-b-c) Fiber will be provided to all but two sites.

d-e) We are asking for a wireless communication system that meets the requirements of SP 907-648 Radio Interconnect System.

f) It is likely that the wireless links are non line-of-site. We have not set up a link. The 2 wireless sites are on ITS sheets 15 and 16.