

Missouri Department of Transportation  
*Patrick K. McKenna, Director*

1.888.ASK MODOT (275.6636)

## ADDENDUM 001 Request for Bid Fulton Wash Bay Enclosure Project RFB 9-161115KH1

Bidders should acknowledge receipt of Addendum 001 (ONE) by signing and including it with the original bid. The due date for receipt of bids **has not** changed by this Addendum; the due date is **November 15, 2016 2:00 PM Central Time**. Accordingly, the following clarifications, and or additional information, are believed to be of general interest to all potential bidders. All other terms and conditions remain unchanged and in full force.

Name and Title of Signer (Print or type)	Name and Title of Department Authority  Kristi Hixson General Services Senior Specialist
Contractor/Offeror Signature  <hr/> (Signature of person authorized to sign)	Department of Transportation  <i>Kristi Hixson</i> <hr/> (Authorizing Signature)
Date Signed:	Date Signed: 11/2/2016

Replace original Callaway County Wage Order with the updated Callaway County Wage Order (separate attachment)

Replace Specification 15500 Heating, Ventilating and Air Conditioning with the attached updated Specification.

Contractor shall install a 40 foot long natural gas infrared tube heater (Sunstar SPS/U 150-L5 or equal) in lieu of any references of natural gas fired unit heater. Radiant tube heater with deflector at a 45 degree angle. Tube heater shall be relocated on side wall opposite the cat walk staircase.

MoDOT will allow contractor to substitute R21 close cell insulation for R30 SimpleSaver Insulation System.



*Our mission is to provide a world-class transportation experience that delights our customers and promotes a prosperous Missouri.*

[www.modot.org](http://www.modot.org)

Gas Line: MoDOT to coordinate with gas company to run a new service up to southern sidewall near southeast corner of existing wash bay. Prior to installing the tube heater and its gas line, contractor shall verify with MoDOT where gas line will be stubbed out of side wall. Contractor to notify MoDOT 72 hours prior to needing the service line tied into the contractor provided gas line.

Electrical Panel: Prior to contractor beginning work, MoDOT will upgrade current 50 amp electrical panel box to a size capable of servicing all electrical component tied into the wash bay enclosure project.

MoDOT will allow sleeves that fit securely over the bollards in lieu of painting the bollards.

MoDOT will relocate the shed near the wash bay prior to construction of the project.

### **Questions:**

**Question:** Regarding the wall insulation, what they are thinking in terms of the vapor barrier and placement of the insulation. It isn't specified as typical pre-engineered insulation, but almost residential.

**Answer:** Yes

**Question:** Are they planning to have insulation between the metal panel and the girt as typical for PEMB? Or is this cavity between the girts filled with bat insulation only as it appears?

**Answer:** Cavity is filled insulation between girts with thermal-break mastic strip continuous horizontally and vertically along outside of all exterior girts before the attachment of the exterior metal panels.

**Question:** Facing is specified as 6 mil poly, I assume that would be installed before/along with the hat channels, and not as typical PEMB insulation w facing?

**Answer:** See answer to previous question.

**Question:** Can we get the actual column line locations? It appears to be about 23' between each column, but I don't see this shown anywhere, to size the length and gauge of the wall girts, and to design connections for the endwall girt connections.

**Answer:** Corner columns are 5"x11 1/2" and mid columns are 6"x11 1/2"  
Column to Column are approximately 23' on center..  
Contractor is responsible for field verifying all dimensions.

**HEATING, VENTILATING AND AIR CONDITIONING**

**PART 1 GENERAL**

1.1 SUMMARY

- A. Provide heating, ventilating, and air conditioning systems where shown on the Drawings, as specified herein and as needed for a complete and proper installation including but not necessarily limited to:
  - 1. Infrared tube heater.
  - 2. Temperature control system including low-voltage wiring.
  - 3. Engineering and design, refer to drawings.
- B. Related work:
  - 1. Documents affecting work of this Section include, but are not necessarily limited to, General Conditions, Supplementary Conditions and Sections in Division 1 of these Specifications.

1.2 SUBMITTALS

- A. Product data: Within 30 calendar days after the Contractor has received the Owner's Notice to Proceed, submit:
  - 1. Manufacturers catalogs, samples and other items needed to fully demonstrate the quality of the proposed materials and equipment.
- B. Record drawings:
  - 1. Comply with pertinent provisions of Section 01720.
  - 2. Include a copy of the Record Drawings in each copy of the operation and maintenance manual described below.
- C. Upon completion of this portion of the Work, and as a condition of its acceptance, deliver to the Architect two copies of an operation and maintenance manual compiled in accordance with the provisions of Section 01730 of these Specifications.

1.3 QUALITY ASSURANCE

- A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.
- B. Without additional cost to the Owner, provide such other labor and materials as are required to complete the work of this Section in accordance with the requirements of governmental agencies having jurisdiction, regardless of whether such materials and associated labor are called for elsewhere in these Contract Documents.
- C. Provide minimum 1-year manufacturer's warranty on all units.

**PART 2 PRODUCTS**

2.1 Infrared Tube Heater

- A. Sunstar SPS/U 150-L5 or equal.

2.2 PIPING

- A. As required by infrared tube heater manufacturer.

### 2.3 AUTOMATIC TEMPERATURE CONTROL

- A. Provide a system of temperature control with the attributes listed below.
  - 1. Include thermostats, sensors, temperature controllers, and air piping as requiring for a complete and operable system compatible with approved Infrared Tube Heater.
  - 2. Provide devices calibrated and adjusted with the actual operating conditions.

### 2.4 OTHER MATERIALS

- A. Provide other materials, not specifically described but required for a complete and proper installation, as selected by the Contractor subject to the approval of the Architect.

## **PART 3 EXECUTION**

### 3.1 SURFACE CONDITIONS

- A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

### 3.2 COORDINATION

- A. Coordinate as required with other trades to assure proper and adequate provision in the work of those trades for interface with the work of this Section.

### 3.3 EQUIPMENT INTERFACE

- A. For electrically operated equipment, verify the electrical characteristics actually available for the work of this Section and provide equipment meeting those characteristics.

### 3.4 INSTRUCTIONS

- A. Upon completion of this portion of the Work, and prior to its acceptance by the Owner, provide a qualified engineer and fully instruct the Owner's maintenance personnel in the proper operation and maintenance of items provided under this Section.
- B. Demonstrate the contents of the approved operation and maintenance manual required under Article 1.2 above.

### 3.5 TESTING AND ADJUSTING

- A. Test and adjust each piece of equipment and each system as required to assure proper balance and operation.
  - 1. Test and regulate ventilation and air conditioning systems to conform to the air volumes shown on the approved design drawings.
  - 2. Make tests and adjustments in apparatus and ducts for securing the proper volume and face distribution of air for each grille and ceiling outlet.

**END OF SECTION**