

ADDENDUM NO.: THREE

DATE: November 22, 2017

PROJECT TITLE: **USC Lieber College HVAC Renovation  
H27-Z313**  
University of South Carolina

WRITTEN BY: J. Sanders Tate, AIA NCARB

TO: Prospective Bidders / Plan Holders

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This addendum is issued pursuant to Article 1.1.1 of the AIA General Conditions of the Contract (A201) in connection with the revision of Bidding Documents which have been previously issued.

Addenda are issued prior to execution of Contract. All instructions contained herein shall be reflected in the Contract Sum and this Addendum will be made a part of the Contract Documents, if, as, and when a Construction Contract is awarded.

This Addendum forms a part of the Contract Documents and modifies the original documents as noted below. Acknowledge receipt of this Addendum in this space provided on the Bid Form. Failure to do so will subject the Bidder to disqualification.

This Addendum consists of 3 pages and specification Section 09900 Painting consisting of 4 pages.

**REVISED BID OPENING DATE:**

Bid Time is extended. New Bid Opening date is December 7, 2017, at 2:00 pm. Same location at 1300 Pickens Street.

**REVISIONS TO THE PROJECT MANUAL:**

1. Add Section 09900, Painting as attached to this addendum
2. Refer to specifications section 23 21 13 PIPING, add paragraph 2.12:  
2.12 PUMPS
  - A. Furnish and install and inline type pumps with capacities as shown on drawings. All pumps shall be installed in strict accordance with the recommendations of the manufacturer.
  - B. Pump shall be Series "60", as manufactured by Bell and Gossett or equal by Taco, Armstrong, Grundfos or approved equal.

- C. Each unit shall be checked by the contractor and regulated for proper differential pressure, voltage and amperage draw. This data shall be noted on a permanent tag or label and fastened to the pump for owner's reference.
- D. Pumps shall be designed for in-line type installation in vertical or horizontal piping. Pump shall be capable of being serviced without disturbing piping connections.
- E. Pump body shall be of Class 30 cast iron, rated 175 psi working pressure, with gauge ports at nozzles, and with vent and drain ports.
- F. Impeller shall be non-ferrous material, enclosed type, dynamically balanced, keyed to the shaft and secured by a locking capscrew or nut.
- G. The liquid cavity shall be sealed from the pump bearing by an internally-flushed mechanical seal with ceramic seal seat of at least 98% alumina oxide content, and carbon seal ring, suitable for continuous operation at 225°F.
- H. A non-ferrous shaft sleeve shall completely cover the wetted area under the seal.
- I. Pump bearing bracket shall have oil lubricated bronze journal and thrust bearings. Bracket shaft shall be alloy steel having ground and hardened thrust bearing faces. A flexible coupling to dampen starting torque and torsional vibrations shall be employed.
- J. Each pump shall be factory tested. It shall then be thoroughly cleaned and painted with at least one coat of high-grade machinery enamel prior to shipment.
- K. All in-line pumps shall be supported from hot water pipes as recommended by manufacturer's written installation instructions. Provide vibration isolation in support rods. Support rods for hot water pipes adjacent to pumps shall be 3/8" diameter, minimum.
- L. The piping shall be arranged so that no weight of the piping is resting on the pump and so that no strain is placed on the pump. The pumps shall be placed in proper alignment (plus or minus 0.003" for pump face and rim) and secured to pump support before piping is connected. The pump installation, alignment and leveling in of the pump shall be performed according to the recommendations of a qualified representative of the pump manufacturer and the manufacturer's written installation instructions.
- M. After mounting of pump and piping, prior to pump start-up, each pump shall be field aligned and checked by a qualified technician.

- N. Provide seismic support connected to building structure as required by the 2015 International Building Code.

**REVISIONS TO THE DRAWINGS:**

1. All Architectural Drawings: Delete all references to "Painting by Owner". All items noted to be painted in the drawings are to be painted by Contractor as a part of this contract.

**END OF ADDENDUM**

## SECTION 09900 - PAINTING

### PART 1 - GENERAL

#### 1.1 SECTION INCLUDES

- A. Surface preparation and finishing
- B. Paint exposed surfaces whether or not colors are designated in schedules except where a surface or material is specifically indicated not to be painted or is to remain natural. Where an item or surface is not specifically mentioned, paint the same as similar materials or surfaces in color selected by Architect.
- C. Painting includes interior gypsum board, exposed metals, hollow metal door frames, and interior flush wood doors.
- D. Painting is not required on operating parts and labels.
- E. "Paint" includes coating systems materials, primers, emulsions, enamels, stains, sealers and fillers and other prime, intermediate, and finish coats.

#### 1.2 SYSTEM DESCRIPTION

- A. Finish Materials: Conform to applicable code for flame/fuel/smoke rating requirements.

#### 1.3 SUBMITTALS

- A. Product Data: Provide data on all finishing products.
- B. Paint Schedule: Submit schedule for each substrate type and paint product to be applied including number of coats and finish prep (between coats).
- C. Submit manufacturer's full color line for initial selection process.
- D. Samples: Submit two samples, 6 x 6 inch in size illustrating range of colors and textures available for each surface finishing product selected from initial submission.
- E. Final selection will be from job-applied samples only. Allow at least three minor shading changes of job-applied sample before final selection.

#### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Delivery, store, protect and handle products to site under provisions of Section 01001.
- B. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- C. Container label to include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions to mixing and reducing.

- D. Store paint materials at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F in ventilated area, and as required by manufacturer's instructions.

#### 1.5 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
- B. Do not apply exterior coatings during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
- C. Minimum Application Temperatures for All Coatings: 45 degrees F for interiors; 50 degrees F for exterior; 1 unless required otherwise by manufacturer's instructions.
- D. Provide lighting level of 80-footcandles measured mid-height at substrate surface.

#### 1.6 EXTRA MATERIALS

- A. Furnish under provisions of Division 1.
- B. Provide 1 gallon of each surface finishing product to Owner.
- C. Label each container with color, type, texture, and room locations in addition to the manufacturer's label.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. Manufacturers: (Premium Line Only) – Low Voc paint only.
  - 1. Sherwin-Williams Company – Basis of Design, or approved equal by one of the following.
    - a. Benjamin-Moore and Company
    - b. The Glidden Company
    - c. Rose Talbert Paint Company
    - d. Equal product approved during bidding process.
- B. Provide "Premium" line, top quality grade materials.
- C. Provide primers and undercoat paint produced by the same manufacturer as the finish coats.
- D. Coatings: Ready mixed, except field catalyzed coatings, of good flow and brushing properties, capable of drying or curing free of streaks or sags.
- E. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials required to achieve the finishes specified.
- F. All materials utilized must be lead-free and shall comply with Section 401(b) of the Lead-Based Poisoning Prevention Act.

- G. All paints, coatings, and accessory materials shall comply with Volatile Organic Compound (VOC) regulations currently in effect at the project location.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION AND PREPARATION

- A. Verify that substrate conditions are ready to receive Work.
- B. Measure moisture content of porous surfaces using an electronic moisture meter. Do not apply finishes unless moisture content is less than 12 percent.
- C. Galvanized Surfaces: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.
- D. Uncoated Ferrous Surfaces: Remove scale by wire brushing or sandblasting; wash clean with solvent. Apply treatment of phosphoric acid solution. Prime paint after repairs.
- E. Shop Primed Steel Surfaces: Sand and scrape to remove loose primer and rust, feather edges; clean surfaces with solvent. Prime bare steel surfaces.
- F. Interior Bare Wood Items Scheduled to Receive Paint Finish: Wipe surface clean; seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats.

#### 3.2 APPLICATION

- A. Apply products in accordance with manufacturer's instructions.

#### 3.3 PROGRESS CLEANING

- A. As work proceeds, promptly remove spilled, splashed, or spattered finishes.
- B. Collect waste material which may constitute a fire hazard, place in closed containers and remove daily from site

#### 3.4 SCHEDULE –SURFACES

- A. Steel – Unprimed:
  - 1. One coat Kem Kromik, B502 Series.
  - 2. Two coats alkyd enamel semi-gloss, Pro Mar 200, B34W201 Series.
- B. Steel – Primed:
  - 1. Touch up with original primer.
  - 2. Two coats alkyd enamel semi-gloss, Pro Mar 200, B34W201 Series.
- C. Steel – Galvanized:
  - 1. One coat Glavite HS-B50WZ230 Series.
  - 2. Two coats alkyd enamel semi-gloss, Pro Mar 200, B34W201 Series.

- D. Gypsum Drywall:
  - 1. One coat Promar #B Drywall Primer.
  - 2. Two coats alkyd eggshell, Cashmere.
  
- E. Wood (Where noted as "Paint" or "Opaque"):
  - 1. One coat alkyd enamel undercoat.
  - 2. Two coats interior alkyd enamel semi-gloss, Pro Mar 200, B34W201 Series.

END OF SECTION 09900