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Addendum 2

Caesar Rodney School District
Wyoming, DE

Bid No.: SRS-18006-Fiferren

Caesar Rodney School District – Fifer Middle School HVAC Improvements

Tt Project No. 163183-17001-04

Addendum No. 2 to Drawings and Project Manual

March 2, 2017

To: ALL BIDDERS

This ADDENDUM forms a part of the BIDDING AND CONTRACT DOCUMENTS and modifies the following documents:

Original DRAWINGS dated February 14, 2018.

PROJECT MANUAL dated February 14, 2018.

Acknowledge receipt of the ADDENDUM in the space provided on the FORM OF PROPOSAL

This ADDENDUM consists of three (3) pages not including the attachments:

1.1 PROJECT MANUAL – MODIFICATIONS

A. Spec Section 05 12 00; Structural Steel Framing

1. Page 05 12 00-2; Paragraph 1.8 Quality Assurance; **DELETE** Items 1.8A Fabricator Qualifications & 1.8B Installer Qualifications.

B. Spec Section 09 91 13; Exterior Painting

1. **ADD** Spec Section in its entirety, attached to this Addendum.

C. Spec Section 23 06 00; Heating, Ventilating, and Air Conditioning

1. Page 23 03 00-13; Paragraph 2.7.A; **ADD** “Rittling” as an approved manufacturer for horizontal recessed cabinet unit heaters.
2. Page 23 03 00-14; Paragraph 2.7.A; **ADD** “Rittling” as an approved manufacturer for horizontal hot water unit heaters.

1.2 DRAWINGS - MODIFICATIONS

A. Drawing A-120; PARTIAL FIRST FLOOR REFLECTED CEILING PLAN AREA 'A'

1. **DELETE** General Note 9 and **REPLACE** with the following:

“SEE DEMOLITION DRAWINGS FOR EXTENT OF REMOVAL AND REINSTALLATION OF THE EXISTING ACOUSTICAL CEILING GRID AND TILE THAT IS AFFECTED BY ALTERNATE NUMBER 1.”

B. Drawing A-121; PARTIAL FIRST FLOOR REFLECTED CEILING PLAN AREA 'B'

1. **DELETE** General Note 9 and **REPLACE** with the following:

“SEE DEMOLITION DRAWINGS FOR EXTENT OF REMOVAL AND REINSTALLATION OF THE EXISTING ACOUSTICAL CEILING GRID AND TILE THAT IS AFFECTED BY ALTERNATE NUMBER 1.”

C. Drawing A-122; PARTIAL SECOND FLOOR REFLECTED CEILING PLAN AREA 'A'

1. **DELETE** General Note 9 and **REPLACE** with the following:

“SEE DEMOLITION DRAWINGS FOR EXTENT OF REMOVAL AND REINSTALLATION OF THE EXISTING ACOUSTICAL CEILING GRID AND TILE THAT IS AFFECTED BY ALTERNATE NUMBER 1.”

D. Drawing A-123; PARTIAL SECOND FLOOR REFLECTED CEILING PLAN AREA 'B'

1. **DELETE** General Note 9 and **REPLACE** with the following:

“SEE DEMOLITION DRAWINGS FOR EXTENT OF REMOVAL AND REINSTALLATION OF THE EXISTING ACOUSTICAL CEILING GRID AND TILE THAT IS AFFECTED BY ALTERNATE NUMBER 1.”

E. Drawing A-141; PARTIAL ROOF PLAN AREA "B"

1. **REPLACE** with Revised Drawing attached to this Addendum.

- a. **ADDED** More Plan Information regarding Keynote #2.

F. Drawing A-501; ROOF DETAILS

1. **REPLACE** with Revised Drawing attached to this Addendum.

- a. **REMOVED** Reference to "AESS" Steel from Notes in Details 2/A-501 & 3/A-501.

- b. **UPDATED** Dimension Note in Detail 3/A-501.

G. Drawing M-501; SCHEDULES HVAC

1. FOUR PIPE FAN COIL UNIT SCHEDULE

- a. **REVISE** MAX WPD Column Cooling Coil: The maximum allowable water pressure drop (WPD) for all fan coil units' cooling coils considering 30% propylene glycol shall be 12 feet.

- b. **REVISE** MAX WPD Column Heating Coil: The maximum allowable water pressure drop (WPD) for all fan coil units' heating coils considering 30% propylene glycol shall be 10 feet.

1.3 REQUEST FOR CLARIFICATIONS/REQUEST FOR INFORMATION

A. **Question 1:** Demo key note 2 – Alternate 1- states to remove acoustical ceiling panels as required to perform new pipe insulation work with grids, hangers & trim to remain. Will the existing ceiling tiles be reused or will the contractor need to provide new acoustical ceiling tiles in these areas.

Response: Answered within this Addendum.

B. **Question 2:** Sheet A-140 Roofing general note 3 states Existing EPDM roofing is still under warranty. Can you please provide the roofing contractors name that is honoring the warranty?

Response: The roofing contract warranty is listed under specification section 02 41 19 SELECTIVE DEMOLITION. The roofing contractor Ken Balagur can be contacted by phone at 484-557-8041.

C. **Question 3:** Spec section 05 12 00 – Structural Steel framing – this spec section is labeled Carrcroft Elementary, not Fifer Middle School. Is this a typo or will a new spec section be provided.

Response: This is a typo a new spec section will not be provided.

D. **Question 4:** Is the AISC quality certification be waived for this project?

Response: Answered within this Addendum.

ATTACHMENT LIST

1. Spec Section 09 91 13 Exterior Painting
2. Revised Drawing A-141
3. Revised Drawing A-501

END OF ADDENDUM No. 2

SECTION 09 91 13
EXTERIOR PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes surface preparation and the application of paint systems on exterior substrates.
 - 1. Steel.

1.3 DEFINITIONS

- A. MPI Gloss Level 1: Not more than five units at 60 degrees and 10 units at 85 degrees, according to ASTM D 523.
- B. MPI Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523.
- C. MPI Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D 523.
- D. MPI Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D 523.
- E. MPI Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D 523.
- F. MPI Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D 523.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
 - 1. Include printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
 - 2. Indicate VOC content.
- B. Samples for Initial Selection: For each type of topcoat product.
- C. Samples for Verification: For each type of paint system and each color and gloss of topcoat.

1. Submit Samples on rigid backing, 8 inches square.
 2. Apply coats on Samples in steps to show each coat required for system.
 3. Label each coat of each Sample.
 4. Label each Sample for location and application area.
- D. Product List: Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules. Include color designations.

1.5 QUALITY ASSURANCE

- A. Mockups: Apply mockups of each paint system indicated and each color and finish selected to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
1. Architect will select one surface to represent surfaces and conditions for application of each paint system.
 - a. Vertical and Horizontal Surfaces: Provide samples of at least 100 sq. ft..
 - b. Other Items: Architect will designate items or areas required.
 2. Final approval of color selections will be based on mockups.
 - a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.
1. Maintain containers in clean condition, free of foreign materials and residue.
 2. Remove rags and waste from storage areas daily.

1.7 FIELD CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.
- B. Do not apply paints in snow, rain, fog, or mist; when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, available Manufacturer's offering products that may be incorporated into the work include; but are not limited to the following:

1. Benjamin Moore & Co.
2. Sherwin-Williams Company (The).
3. Valspar Corporation - Architectural (Pro).

2.2 PAINT, GENERAL

- A. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products Lists."
- B. Material Compatibility:
 1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
- C. Colors: As selected by Architect from manufacturer's full range.
 1. Thirty percent of surface area will be painted with deep tones.

2.3 SOURCE QUALITY CONTROL

- A. Testing of Paint Materials: Owner reserves the right to invoke the following procedure:
 1. Owner will engage the services of a qualified testing agency to sample paint materials. Contractor will be notified in advance and may be present when samples are taken. If paint materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.
 2. Testing agency will perform tests for compliance with product requirements.
 3. Owner may direct Contractor to stop applying paints if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying paint materials from Project site, pay for testing, and repaint surfaces painted with rejected materials. Contractor will be required to remove rejected materials from previously painted surfaces if, on repainting with complying materials, the two paints are incompatible.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.

- C. Proceed with coating application only after unsatisfactory conditions have been corrected.
 - 1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and paint systems indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.
- C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
 - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.
- D. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer.
 - 1. SSPC-SP 2.
 - 2. SSPC-SP 3.
 - 3. SSPC-SP 7/NACE No. 4.
 - 4. SSPC-SP 11.
- E. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and areas where shop paint is abraded. Paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.

3.3 APPLICATION

- A. Apply paints according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."
 - 1. Use applicators and techniques suited for paint and substrate indicated.
 - 2. Paint surfaces behind movable items same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed items with prime coat only.
 - 3. Paint both sides and edges of exterior doors and entire exposed surface of exterior door frames.
 - 4. Paint entire exposed surface of window frames and sashes.
 - 5. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
 - 6. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.

- B. Tint undercoats same color as topcoat, but tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

3.4 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.
 - 1. Contractor shall touch up and restore painted surfaces damaged by testing.
 - 2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.

3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.6 EXTERIOR PAINTING SCHEDULE

- A. Steel and Iron Substrates:
 - 1. Water-Based Light Industrial Coating over Epoxy System MPI EXT 5.1R:
 - a. Prime Coat: Primer, epoxy, anti-corrosive MPI #101.
 - 1) Sherwin Williams
 - b. Intermediate Coat: Epoxy, high build, low gloss MPI #108.

- c. Topcoat: Light industrial coating, exterior, water based, gloss (MPI Gloss Level 6), MPI #164.
 - 1) Sherwin Williams.

END OF SECTION