ADDENDUM NO. 03
May 25, 2023

To Drawings and Specifications dated April 27, 2023

Friendswood High School Natatorium Pool Unit Replacement

Prepared by: LEAF Engineers
11 Greenway Plaza, Suite 1510
Houston, TX 77046-1104

LEAF Project No: P2129800ME
FISD Project No: CSP #23-004

Notice to Bidders:

A. Receipt of this Addendum shall be acknowledged on the Bid Form.
B. This Addendum forms part of the Contract documents for the above referenced project and shall be incorporated integrally therewith.
C. Each bidder shall make necessary adjustments and submit his proposal with full knowledge of all modifications, clarifications, and supplemental data included therein. Where provisions of the following supplemental data differ from those of the original Contract Documents, this Addendum shall govern.

QUESTIONS AND ANSWERS

1. Is the existing roof under warranty? If so, by who?
    a. Answer: The existing roof is manufactured by GAF and was installed April 28, 2010 and is under warranty until August 23, 2030. It was originally installed by Antex.
2. Who is the district's preferred fire alarm company?
    a. Answer: There is an existing Simplex fire alarm panel at the Natatorium building.
3. Please confirm construction work hours.
    a. Work is expected to be performed during regular work hours.
4. Please confirm hours pool will be open for use by others during the construction period.
    a. The pool will be closed during the construction period.

SPECIFICATIONS

Item No 01 **00 40 10 – Alternate Proposal Form**

1. Find attached revised Alternate Proposal Form including alternates for additional manufacturers as follows:
    - **i.** For Custom Hydronic Pool Dehumidification Units – add
        - **a.** Climate Craft
        - **b.** Custom Air Products (CAPS)
        - **c.** Daikin Applied Custom
    - **ii.** For Packaged, Outdoor, Central Station Air Handling Units – add
        - **a.** Daikin (Rebel or Roofpak model)

Item No 02 **01 23 00 – Alternates**

1. Find attached revised section including the additional manufacturers noted in the Alternate Proposal Form above.

Item No 03 **22 11 16 – Domestic Water Piping**

1. Section 2.3: Delete A 2 (b) and (c)

DRAWINGS

Item No 04 **Sheet C101 – Site Plan**

1. Provide a local drain in the mechanical yard for condensate disposal, provide 4" connection to storm sewer below.
2. In SITE PLAN detail, at Prop. Raised Mechanical Pad, note to RE: MEP and STRUCTURAL.
3. In CONCRETE SIDEWALK & EXISTING TO PROPOSED CONCRETE DETAIL, detail on right shall apply to area inside the new fence. Detail on left shall apply to new sidewalk area. Equipment pad itself is shown on structural drawings. All concrete shall be 5" thick.

Item No 05 **Sheet S-031 – General Concrete and Steel Reinforcing Notes and Typical Details**

1. Delete Drilled Piers detail.

Item No 06 **Sheet S-050 – General Steel Notes and Typical Details**

1. This sheet has been revised. See attached sheet.

Item No 07 **Sheet S-051 – General Steel Notes and Typical Details**

1. Delete sheet in it's entirety.

Item No 08 **Sheet S-103 – Composite Existing Roof Plan**

1. This sheet has been revised. See attached sheet.

Item No 09 **Sheet S-104 – Mechanical Platform Framing Plan**

1. Add sheet in it's entirety.

Item No 10 **Sheet S-310 – General Foundation Notes and Typical Details**

1. In Detail 1, delete housekeeping pad detail that is shown to be set between adjacent concrete. Use pad detail above, pour on top of concrete.

Item No 11 **Sheet S-500 – Typical Steel Connection Details**

1. Delete sheet in it's entirety. For any and all connections the GC shall provide 3/8" thick shear plates or 3/8" thick angles. For angles GC shall have minimum 3" legs. For plates and angles the length shall match beam depth of connecting beams minus 2 ½" to miss flanges. Weld all connections with max allowed fillet weld all around. After welding provide (2) coats of zinc rich cold-galv paint.

Item No 12 **Sheet S-501 – Typical Steel Details**

1. This sheet has been revised. See attached sheet.

Item No 13 **Sheet S-502 – Typical Steel Details**

1. Delete sheet in it's entirety.

Item No 14 **Sheet S-503 – Typical Steel Details**

1. This sheet has been revised. See attached sheet.

Item No 15 **Sheet A101 - First Floor Plan**

1. Add note: Acoustical tile ceiling in Corridor L101 and Office L104 shall be replaced in order to accomplish installation of HVAC cassette, refrigerant lines, and structural steel. Re-install existing items in new ceiling.
2. Add note: Patch/ fill opening in wall between Corridor L101 and Office L104 where return duct was removed. RE: mechanical.
3. Add note: At new doors L106 and L110, modify CMU wall as required to install new door. RE: A102 and structural drawings for additional information.
4. Add note: Patch/ paint existing CMU wall where (2) 4" boiler pipes are to be removed (2 locations in Natatorium). RE: mechanical.
5. Add note: Portions of the plaster ceiling in Men's Dressing/ Toilet/ Showers (L106), Women's Dressing/ Toilet/ Showers (L110), Storage L109, Storage L108, and Custodial L107 will need to be removed and replaced to access exhaust fans and ductwork, and structure above. Patch openings with like material and remove and replace existing devices as required to accomplish the work. The entire ceiling in these spaces shall be repainted.
6. Add note: Provide patch/ repair of brick wall with CMU backup and waterproofing where new ductwork is scheduled to penetrate exterior wall (N-RTU-01). RE: Mechanical drawings for location.
7. Add note: Provide patch/ repair of brick wall with CMU backup and waterproofing where new steel is scheduled to penetrate exterior wall (boiler platform). Provide two-piece, shop fabricated cover plate. Set cover in bed of sealant against backup wall and seal all joints. RE: Structural drawings for location.
8. On roof area, existing mechanical curb and (8) stub columns supporting two large pieces of mechanical equipment shall be removed. In addition, one additional roof penetration below existing condensing unit shall also be removed (electrical service to condensing unit). Repair existing roof decking and roof material. Refer to mechanical demolition plan for locations.
9. On roof area, a number of stub columns are to be installed for steel framing/ platforms to support new mechanical equipment. Provide flashing at each penetration. RE: Structural/ mechanical drawings for locations. In addition, provide flashing at roof penetrations for support of and electrical/ refrigerant lines to new heat pump unit N-HPU-01. RE: mechanical drawings for location.
10. Overall concrete pad dimensions shall be 18'-0" x 35'-0". Fence shall be set to maintain a 5'-0" sidewalk around mechanical area. Unit shall be placed within fence to allow a minimum of 4'-0" clearance between fence and equipment or ductwork.
11. Note pointing to concrete equipment pad shall read: "New 4" raised concrete equipment pad. Pad shall extend 6" around base of equipment, coordinate exact size with mechanical equipment submittals. RE: Structural for additional information.

Item No 16 **Sheet A102 – Door Schedule and Details**

1. Detail 07: Reference structural details for foundation information.
2. Refer to attached sketches CD-SK-01 and CD-SK-02 for infill details and pipe penetration details added to this sheet.

Item No 17 **Sheet MD-101 – Mechanical Floor Demo Plan**

1. Add General Note: “It is expected that temporary exhaust will be supplied to the natatorium area while conditioning is unavailable. Contractor shall coordinate requirements with equipment rental vendor.”

Item No 18 **Sheet MD-301 – Mechanical Roof Demo Plan**

1. The section of 4” CPVC Auxilliary Pool Water Heating Piping shown on the high roof of the Natatorium is actually located inside the Natatorium Space.

Item No 19 **Sheet M-101 – Mechanical Floor Plan**

1. Unit N-RTU-01 and it’s associated ductwork and accessories is to be part of Alternate #1.
2. Add to Keyed Note 1: Fans on plan north side shall be suspended approximately 11’ from wall. Fans on plan south side shall be suspended approximately 7’ from wall. At both plan north and south sides, provide aircraft cable brace for suspended pendant lighting fixtures, connected on two sides, to prevent swaying.

Item No 20 **Sheet M-502 – Mechanical Schedules**

1. High Volume, Low Speed Fan Schedule (Alternate); revise fan performance for HV-01 through HV-06 as follows:
    i. Model: Powerfoil D, 1.5 HP, 200 max RPM, 1.3 FLA.

Item No 21 **Electrical Sheets - General**

1. Add to Keyed Note 1: New conduit in the Natatorium is expected to be routed in structure above except at walls.
2. Add to Keyed Note 2: Patch exterior roof and wall openings with like material. RE: Architectural and Structural.

Item No 22 **Sheet EP-101 – 1st Level Power Plan**

1. Fans EF-N-01, 02, and 03 shall be provided with motor rated switch in lieu of disconnect. Provide connection to existing circuit serving these fans.
2. Delete keyed note 10 from Lobby. Keyed note 10 should be applied to the two entrances to the locker/ dressing rooms.
3. Provide surface mount raceway for new location of thermostat. Coordinate exact location with mechanical prior to rough-in (Corridor L101).
4. Delete Keyed Note 9 and it’s reference on the plan.
5. Add to Keyed Note 6: Refer to bid form for alternate number. Conduit to be routed within Natatorium space (in structure above).
6. Disconnect serving N-RTU-01 shall be located on the adjacent wall.
7. Circulation fans noted by keyed note 6 shall be fed from panel DPM in lieu of MSBNP.
8. Keyed note 7: locate these two control stations where shown on mechanical plans.

Item No 23 **Sheet E-301 – Electrical Roof Plan**

1. Mount disconnects serving chillers and boilers on the wall adjacent to the equipment.
2. Provide (1) 20A 120V circuit from panel LM to serve chilled and heating water treatment equipment and controls. Provide an additional 20A 120V circuit for BAS equipment located on the roof.
3. Provide one data drop from the IDF in the Coach Office below to the roof for BAS equipment. Coordinate exact required location with building automation contractor.

Item No 24 **Sheet E-501 – Electrical Riser Diagram and Schedules**

1. Riser Diagram: Transformer TM shall be 45 kVA, with associated P45, S45, and G45 feeders. K-rating for transformer TM is not required.
2. Riser Diagram: Delete Keyed Note 5 from SPD.
3. MSBNP Panel Schedule: Note: Panel MSBNP is a feed-thru to panel DPM.
4. DPM Panel Schedule: No main breaker is required in this panel (it is located in MSBNP). Also, add “Provide under alternate only” to circuit #12, N-RTU-01.
5. LM Panel Schedule: Panel shall be 150A MCB.

Item No 25 **Sheet P-000 – Plumbing Cover Sheet**

1. Delete General Note A.
2. References in General Note B shall be to 2018 IPC and 2018 IFGC.
3. Add item #3 under Plumbing Scope of Work: “Provide make-up water connection to new hydronic chilled and heating water loops.”

Item No 26 **Sheet PD-301 – Plumbing Demo Roof Plan**

1. References in General Note 1 shall be to 2018 IPC and 2018 IFGC.
2. Add “and piping” to General Note 4.
3. Delete last sentence referencing sprinkler piping from General Note 5.
4. Keyed Note 4: last word shall be “offset”.

Item No 27 **Sheet P-101 – Plumbing 1st Level Floor Plan**

1. RPZ in Custodian L107 shall drain to local mop sink.
2. References in General Note 1 shall be to 2018 IPC and 2018 IFGC.
3. Add “and piping” to General Note 4.
4. Delete last sentence referencing sprinkler piping from General Note 5.

Item No 28 **Sheet P-301 – Plumbing Roof Plan**

1. Vent through roof offset shall be 4” in lieu of 3” shown.
2. At boilers, one regulator shall be provided per boiler. Provide a 2” connection to each boiler downstream of each regulator.
3. References in General Note 1 shall be to 2018 IPC and 2018 IFGC.
4. Add “and piping” to General Note 4.
5. Delete last sentence referencing sprinkler piping from General Note 5.
6. Keyed Note 2 shall read: “Connect new make-up water line to HVAC unit.”

END OF TEXT ADDENDUM 03