Addendum 01 Description:

Sheet: MD2.2A
- Modified ductwork based on actual field conditions.

Sheet: M2.2A
- Switched location of EF-7 and EF-8 and modified associated ductwork.
- Show sound attenuators associated with each EF.
- Show VFD’s at south wall location, not north wall.
- Revised miscellaneous items based on actual field conditions.
- Revised Keynote 14.
- Added Keynote 15.

Sheet: M3.2A
- Show air terminal associated with Keynote 2.
- Added additional content to General Note 2.
- Removed some General Notes.

Sheet: M7.1
- Corrected numbering under Sequence of Operations section.

Sheet: M8.0
- Show dampers in Detail 7.
- Show removable end caps associated with spiral supply duct.

Sheet: M9.0
- Add note to Supply, Return, and Exhaust Fan Schedule.
- Add Sound Attenuating Devices Schedule.
Sheet: E3.2A

- Show VFD’s at south wall location, not north wall.
- Motor “82” shall be revised to “83”.
- Motor “83” shall be revised to “82”.

Sheet: E9.0

- Revise nomenclature from “EF-10” to “EF-9”.

Specifications:

**Section 15850 Fans**

- Paragraph 2.01.H, Add new paragraph as follows:

  H. Sound Vault Housing (similar to Greenheck Sound Vault Housing for QEI fans):

  1. Panels of the outer housing shall be constructed out of galvanized steel. Minimum galvanized material gage thickness to be 16 gauge. Enclosure walls shall be lined with sound dampening fiberglass insulation having a thickness of two inches (51 mm) and density of 3 lbs. / ft². Exterior collars shall provide a connection point for system ductwork. Enclosure shall have quick opening and fully removable gasketed access panel(s) to provide access to all internal components.

  2. To limit breakout noise, inlet and outlet of fan shall be connected to the inside of the enclosure using a slip-fit flexible duct connection. In addition, Sound Vault shall be supplied from factory with internally mounted, one-inch (25 mm) deflection free standing spring isolators.

  3. Grease filled lubrication lines shall be extended to the exterior of the Sound Vault enclosure. Nylon lines will provide lubrication to fan bearings without removing fan from enclosure. Wiring for fan power supply shall be extended to the exterior of the Sound Vault enclosure and electrical connections shall be terminated at an electrical box.

  4. Sound Vault enclosure shall be supplied with two formed steel mounting rails. Rails shall be securely fastened to enclosure and have pre-punched holes in both ends to provide for either ceiling hung or floor mounting configurations.

  5. Radiated sound power attenuation ratings shall be based on factory tests using sound intensity measurement techniques on of both the fan and sound enclosure in combination. Radiated sound power reductions from total sound power shall be available for each of eight octave bands with center frequencies (hz) of 63, 125, 250, 500, 1000, 2000, 4000, and 8000.

  6. Sound Vault enclosure shall be fully assembled with fan at the factory and shipped as a complete assembly up through QEI fan size 27. Temporary restraining brackets are mounted internal to the Sound Vault enclosure to limit movement of fan during transit.
Section 16010 Basic Electrical Requirements

- Paragraph 1.05.A.22, Add UCB standards reference as follows:
  "22. UCB University of Colorado-Boulder Standards"

Section 16110 Raceways

- Paragraph 1.04.BB, Add UCB standards reference as follows:
  “BB. UCB University of Colorado-Boulder Standards”

- Paragraph 3.03.A.12, Deleted ½” raceway allowed and added no ½” raceway allowed per UCB Standards, as follows:
  "12. Raceways minimum sizes:
  a. Minimum raceway size ¾”, except as noted on drawings.
  b. Minimum home run size: 1”, except as noted on drawings.
  c. Minimum size for flexible metal conduit is ½” except 3/8” for luminaires.
  d. Minimum size for liquid tight flexible metal conduit is ⅛”.
  e. ½” raceway not permitted per UCB standards.”

- Paragraph 3.04.E, Delete entire paragraph. Deleted ½” raceway allowed.

Attachments: Drawings MD2.2A, M2.2A, MD3.2A, M7.1, M8.0, M9.0, E3.2A & E9.0

END of ADDENDUM # 01