

November 14, 2014

BOARD OF COUNTY COMMISSIONERS  
ORANGE COUNTY, FLORIDA  
ADDENDUM NO. 4 / IFB Y15-714-EZ

**Bid Opening Date: November 20, 2014**

**ORANGE COUNTY MAXEY COMMUNITY CENTER HVAC REPLACEMENT**

This Addendum is hereby incorporated into the bid documents of the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to and shall take precedence over the original documents. Additions are indicated by underlining, deletions are indicated by ~~strikethrough~~.

- A. Add Drawing Sheet No. M1.1 referenced in paragraph B.7 of Addendum #3. This drawing was inadvertently left out of said Addendum.
- B. All other terms, conditions and specifications remain the same.
- C. 1. The Proposer shall acknowledge receipt of this addendum by completing the applicable section in the solicitation or by completion of the acknowledgement information on the addendum. Either form of acknowledgement must be completed and returned not later than the date and time for receipt of proposals.

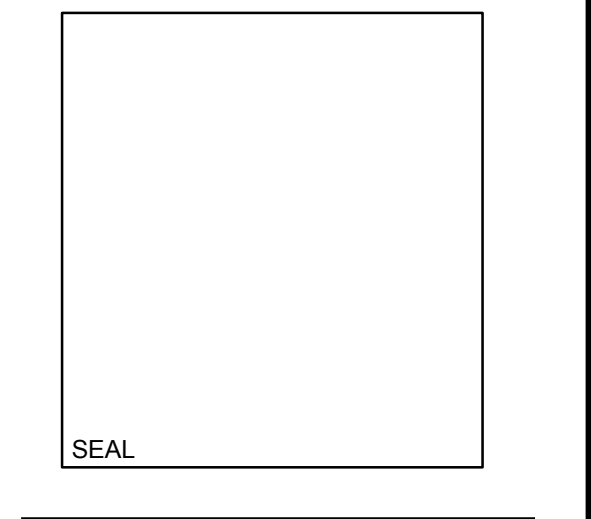
2. Receipt acknowledged by:

\_\_\_\_\_ Authorized Signature                      \_\_\_\_\_ Date Signed

\_\_\_\_\_ Title

\_\_\_\_\_ Name of Firm

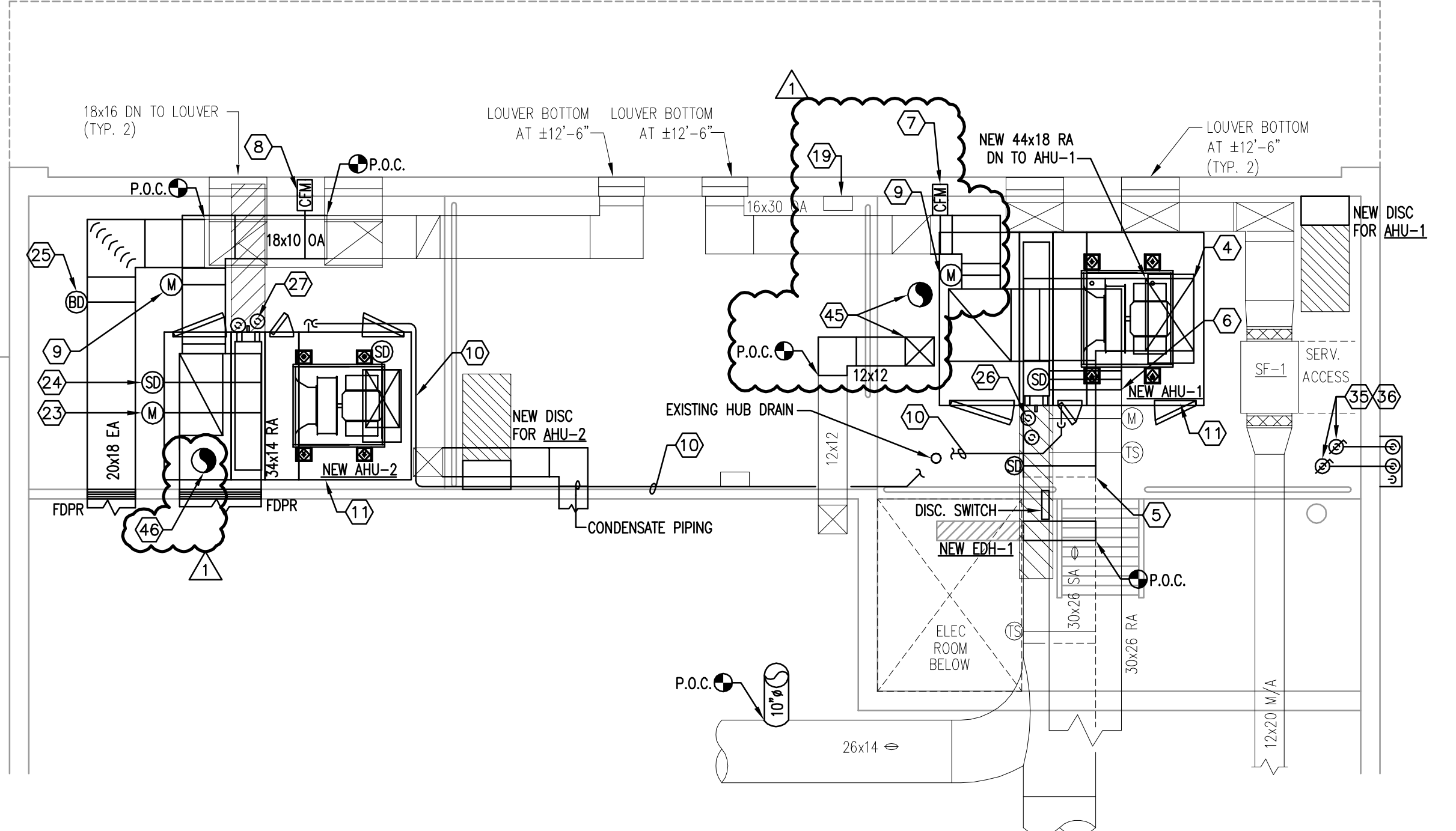
**ORANGE COUNTY  
 MAXEY  
 COMMUNITY  
 CENTER HVAC  
 REPLACEMENT**



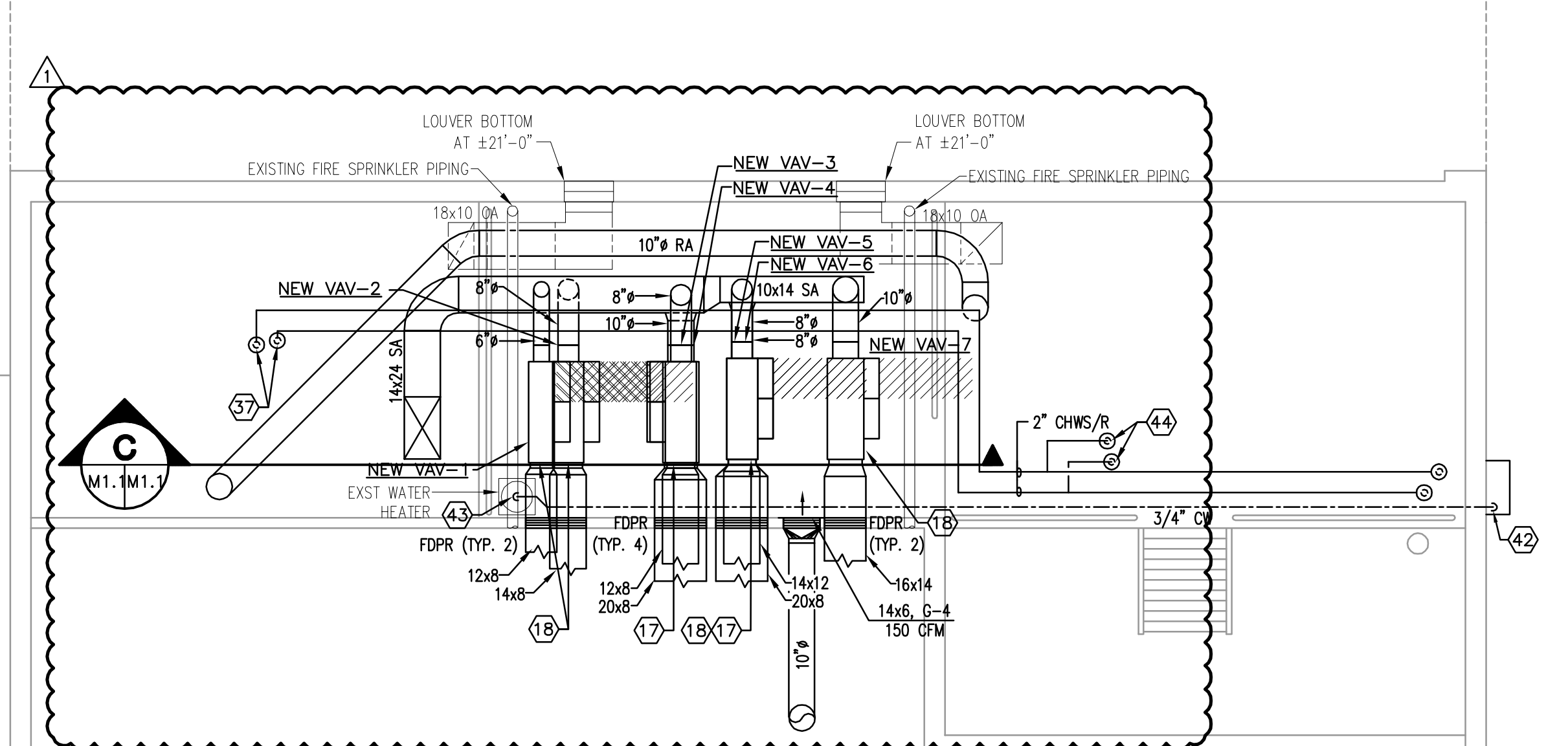
**Revisions**

No.	Date	Description
1	10/22/14	ADDENDUM NO. 1

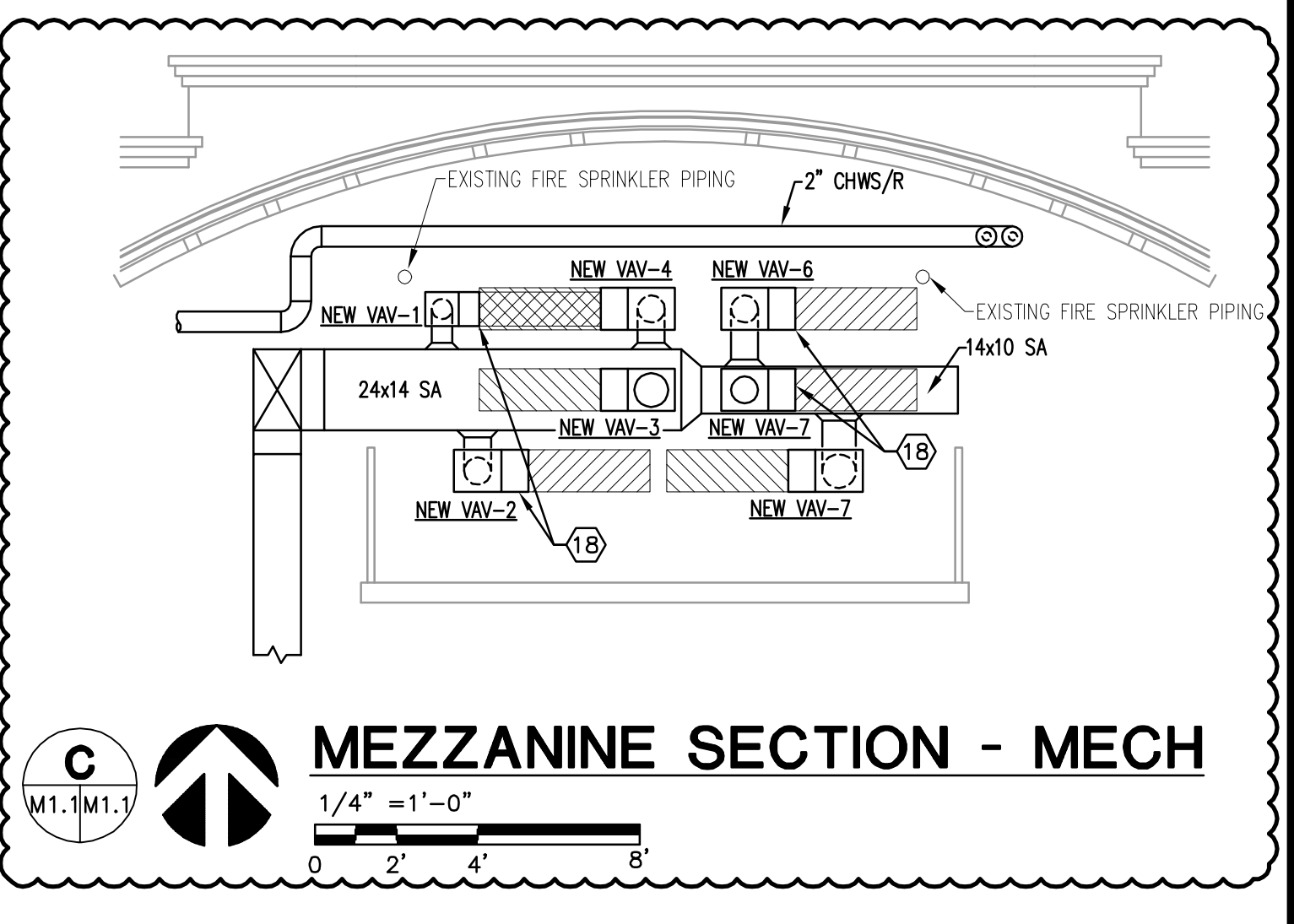
Key Plan  
 MPE PROJ#: 2012-138  
 Designed By: JS  
 Drawn By: AG  
 Checked By: BWP  
 Issue Date: JUNE 17, 2014  
 Drawing Scale: 1/4" = 1'-0"  
 Drawing Title:  
**FLOOR PLAN  
 MECHANICAL**  
 BID DOCUMENTS  
 Drawing No.  
**M1.1**



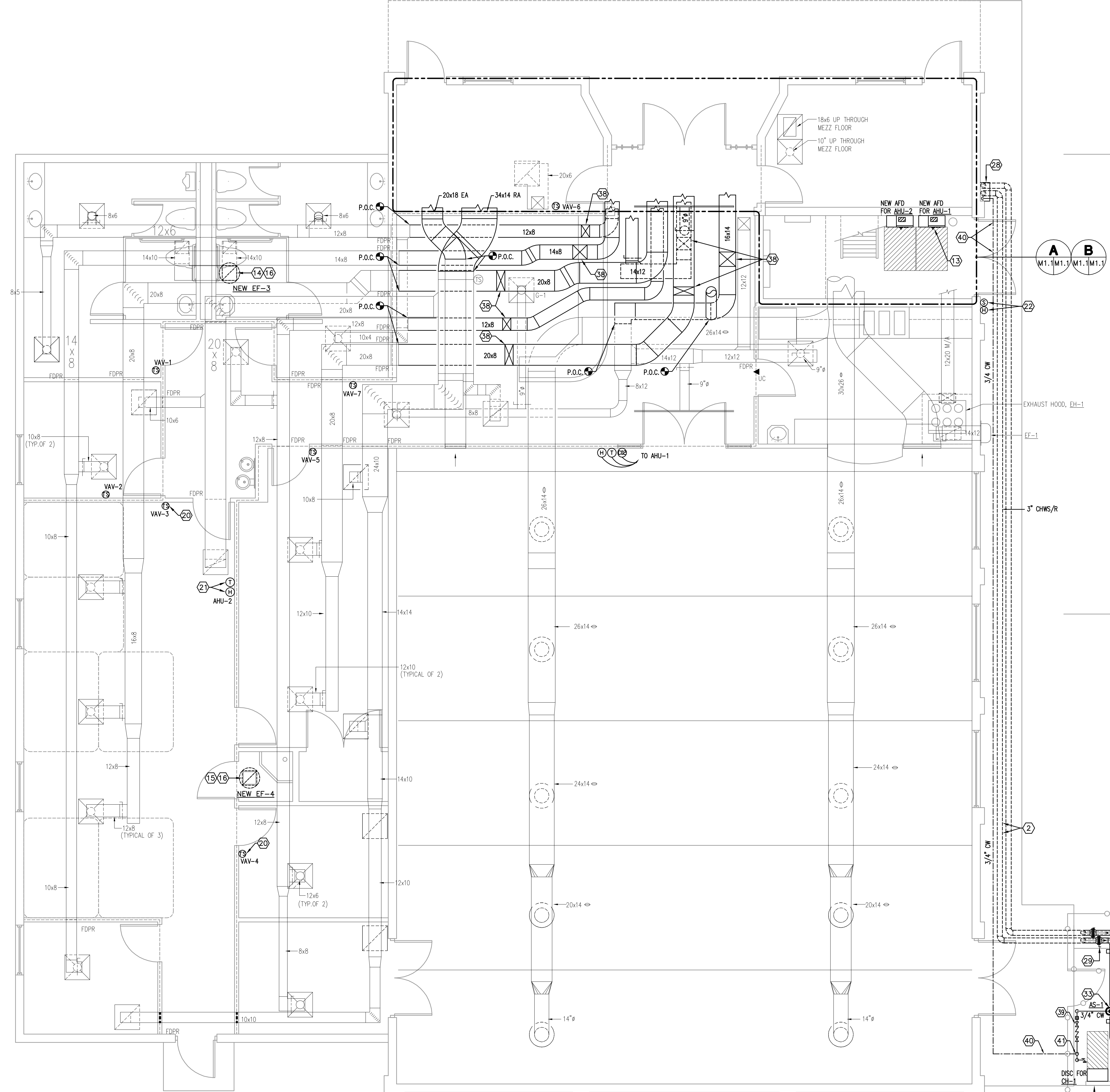
**1ST FLOOR PLAN MEZZANINE - MECHANICAL**  
 1/4" = 1'-0"  
 0 2' 4' 8'



**2ND FLOOR PLAN MEZZANINE - MECHANICAL**  
 1/4" = 1'-0"  
 0 2' 4' 8'



**MEZZANINE SECTION - MECH**  
 1/4" = 1'-0"  
 0 2' 4' 8'



**FLOOR PLAN - MECHANICAL**  
 1/4" = 1'-0"  
 0 2' 4' 8'

- GENERAL NOTES**
- REFER TO THE GENERAL NOTES FOR THIS DISCIPLINE.
  - REFER TO THE SPECIFICATIONS.
  - REFER TO THE MANUFACTURER'S RECOMMENDATIONS FOR ALL DEVICES SHOWN AND INSTALLED ON THIS PROJECT. THIS INCLUDES, BUT NOT LIMITED TO THE AIR FLOW MEASURING STATIONS, ELECTRIC DUCT HEATERS, MOTORIZED DAMPERS, SMOKE DETECTORS, CONTROL VALVES AND ALL PIPING AND DUCT ACCESSORIES.
  - FULLY COORDINATE ALL REQUIRED ELECTRICAL CLEARANCES FOR DISCONNECTS, AFD'S AND ELECTRIC DUCT HEATERS PRIOR TO INSTALLATION. THIS MUST BE INCLUDED ON ALL CONTRACTOR SHOP DRAWINGS, PRIOR TO INSTALLATION.
  - ALL AHU SUPPLY AND RETURN CONNECTIONS SHALL HAVE A CANVAS STYLE FLEXIBLE CONNECTOR.
  - PROVIDE AN AIR FLOW MEASURING STATION ON ALL OUTSIDE AIR INTAKES. THEY SHALL BE PER THE SPECIFICATIONS NO SUBSTITUTIONS. FULLY COORDINATE THEIR INSTALLATION REQUIREMENTS AND CLEARANCES WITHIN THE DUCTWORK PRIOR TO CONSTRUCTION.
  - COORDINATE UNIT LOCATION WITH ROOM TO ALLOW FOR MANUFACTURER'S RECOMMENDED CLEARANCES OF THE AIR HANDLING UNIT AND COIL PULL LOCATIONS.
  - ALL OUTSIDE AIR AND RETURN AIR CONNECTIONS TO THE AHU SHALL HAVE A MOTORIZED DAMPER.
  - PROVIDE AN ACCESS DOOR ON BOTH SIDES OF ANY DUCT FOR ACCESS TO MOTORIZED DAMPERS, AIR FLOW MEASURING STATIONS AND THE REMOVABLE BIRD SCREEN.
  - REFER TO MANUFACTURER'S RECOMMENDATIONS FOR ALL REFRIGERANT PIPE SIZES ACCORDING TO FINAL LENGTH OF RUN.
  - ALL NEW EQUIPMENT, INCLUDING AHU'S, CHILLERS, VFD'S, SMOKE DETECTORS, AIR FLOW MEASURING STATION AND MOTORIZED DAMPER, TO BE CONNECTED TO EXISTING JCI BAS SYSTEM.
  - THE FACILITY SHALL REMAIN OPEN FOR THE DURATION OF THE PROJECT. CONTRACTOR SHALL COORDINATE HIS WORK ACTIVITIES WITH THE ORANGE COUNTY MAXEY COMMUNITY CENTER DAILY PROGRAM ACTIVITIES TO REDUCE THE IMPACT TO THE PUBLIC SERVICES. REFER TO SECTION 01010 FOR MORE INFORMATION.
  - MECHANICAL CONTRACTOR TO REMOVE AND PRESERVE CEILING TILES IN ORDER TO FACILITATE THE INSTALLATION OF EQUIPMENT, DUCTWORK, AND GRILLES/DIFFUSERS AS NEEDED THROUGHOUT THE FLOOR. ALL CEILING GRIDS ARE TO BE RE-INSTALLED BACK INTO ORIGINAL PLACEMENT AS FOUND BEFORE CONSTRUCTION. CONTRACTOR TO REPLACE ALL BROKEN CEILING TILES AND GRID WITH NEW AS REQUIRED. REFER TO SPECIFICATION SECTION 09510.
  - MECHANICAL CONTRACTOR TO REMOVE AND PRESERVE LIGHT FIXTURES IN ORDER TO FACILITATE THE INSTALLATION OF MECHANICAL EQUIPMENT, DUCTWORK, AND GRILLES/DIFFUSERS AS NEEDED. ALL LIGHT FIXTURES ARE TO BE RE-INSTALLED BACK INTO ORIGINAL PLACEMENT AS FOUND BEFORE CONSTRUCTION. CONTRACTOR TO REPLACE ALL BROKEN CEILING TILES AND GRID WITH NEW AS REQUIRED.
  - MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE REPAIR AND PAINTING OF ANY DAMAGED INTERIOR FINISHES ASSOCIATED WITH THE SCOPE OF WORK DURING CONSTRUCTION.

- HEX NOTES**
- CH-1 - PACKAGED AIR COOLED LIQUID CHILLER WITH INTEGRATED PUMPS.
  - 3" CHWS/R LINES UNDERGROUND. CONTRACTOR TO SAW CUT SIDEWALK AND COORDINATE WITH UNDERGROUND UTILITIES BEFORE DIGGING.
  - CONTRACTOR TO ADD TO EXISTING CONCRETE SLAB TO BE POURED AND REFINISHED TO BE 6" ABOVE GRADE.
  - NEW 24x20 SA RECTANGULAR FROM NEW AHU-1. CONTRACTOR TO TRANSITION SA DUCT TO 30x26 OVAL DUCT.
  - CONTRACTOR TO CONNECT NEW 30x26 SA OVAL DUCT TO EXISTING SA DUCT. PROVIDE NEW DUCTWORK AS NECESSARY TO FACILITATE THE CONNECTION.
  - CONTRACTOR TO CONNECT NEW 30x26 SA OVAL DUCT FROM NEW AHU-1 TO EXISTING RA DUCT. PROVIDE NEW DUCTWORK AS NECESSARY TO FACILITATE THE CONNECTION.
  - CONTRACTOR TO PROVIDE NEW AIR FLOW MONITORING STATION IN EXISTING OA DUCT.
  - CONTRACTOR TO PROVIDE NEW AIR FLOW MONITORING STATION IN NEW OA DUCT.
  - CONTRACTOR TO PROVIDE NEW MOTORIZED DAMPER IN NEW OA DUCT.
  - RUN NEW 1-1/2" CD TO EXISTING HUB DRAIN.
  - NEW AHU'S TO INCLUDE BASE RAILS.
  - NEW BAS PANEL AND DISCONNECT TO BE PLACED ON NEW UNISTRUT.
  - REMOTE AFD'S LOCATED ON 1ST FLOOR WALL BELOW MEZZANINE.
  - EXISTING 14x14 DUCT UP TO NEW EF-3 ON ROOF.
  - EXISTING 8" DUCT UP TO NEW EF-4 ON ROOF.
  - EXISTING ROOF CURB TO REMAIN FOR INSTALLATION OF NEW EXHAUST FAN ON ROOF.
  - (2) VAV BOXES STACKED.
  - VAV BOX TO HAVE ELECTRICAL CLEARANCE MIRRORING.
  - LOCATION OF EXISTING BAS PANEL.
  - EXISTING THERMOSTAT TO REMAIN AND RECONNECT TO NEW VAV BOX (TYP).
  - NEW THERMOSTAT AND HUMIDISTAT TO CONNECT TO NEW AHU.
  - EXISTING OUTDOOR AIR TEMPERATURE AND HUMIDITY SENSORS.
  - CONTRACTOR TO PROVIDE NEW MOTORIZED DAMPER IN NEW RA DUCT.
  - CONTRACTOR TO PROVIDE NEW SMOKE DETECTOR IN NEW RA DUCT.
  - CONTRACTOR TO PROVIDE BACK DRAFT DAMPER IN NEW EA DUCT.
  - 2-1/2" CHWS/R DOWN TO AHU-1.
  - 2" CHWS/R DOWN TO AHU-2.
  - CONTRACTOR PROVIDE SHEET METAL SHROUD FOR CHWS/R AND CW PIPING.
  - TYPICAL BUTTERFLY ISOLATION VALVE.
  - 3" CHR CONNECTION TO CHILLER INLET.
  - 3" CHS CONNECTION TO CHILLER OUTLET.
  - TYPICAL DIAGRAMMATIC PIPE SUPPORT, REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS.
  - SUSPENDED AIR SEPARATOR.
  - CHEMICAL FILTER FEEDER.
  - 3" CHWS/R TO BE ROUTED TO MEZZANINE LEVEL HIGH TO STRUCTURE.
  - 3" CHS WITH ISOLATION VALVES IN VERTICAL AT SERVICE LEVEL.
  - 2" CHWS/R PIPING ROUTED DOWN TO AHU-2.
  - CONTRACTOR TO ROUTE SUPPLY DUCT DOWN TO MATCH EXISTING ELEVATION FOR DUCTWORK TO CONNECT TO EXISTING SUPPLY DUCT.
  - 3/4" CW MAKE-UP TO PRIMARY LOOP WITH A DIGITAL METER CONNECTED TO THE BCS, PRV AND BACKFLOW PREVENTER.
  - WATER SERVICE BELOW FLOOR FROM BUILDING. INVERT ELEVATION -2'-6" B.F.F.
  - PROVIDE DOMESTIC WATER SERVICE RISER WITH SHUT-OFF VALVE IN VERTICAL PIPING PRIOR TO BRANCH TAKE OFF.
  - 3/4" CW HIGH TO STRUCTURE TO BE ROUTED THROUGH WALL INTO SHEET METAL SHROUD.
  - CONTRACTOR TO CONNECT TO EXISTING DOMESTIC WATER.
  - 2-1/2" CHWS/R PIPING ROUTED DOWN TO AHU-1.
  - 10" RA AND 12x12 SA DUCTS TO DUCT DOWN TO ROOM BELOW.
  - 10" RA TO DUCT UP. REFER TO MEZZANINE PLAN FOR CONTINUATION.

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