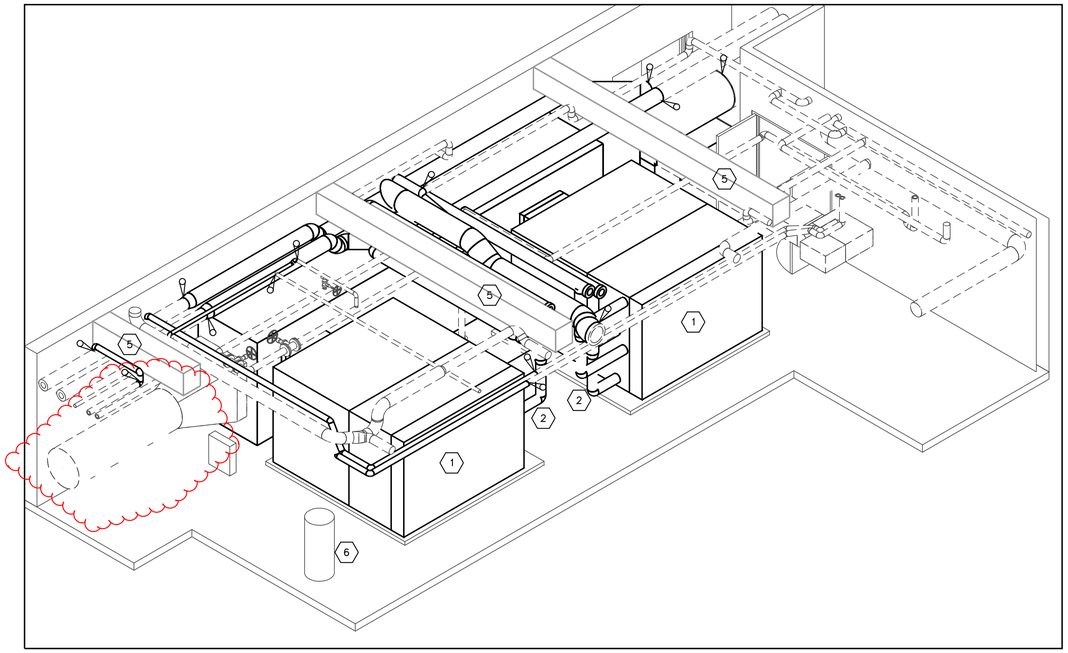
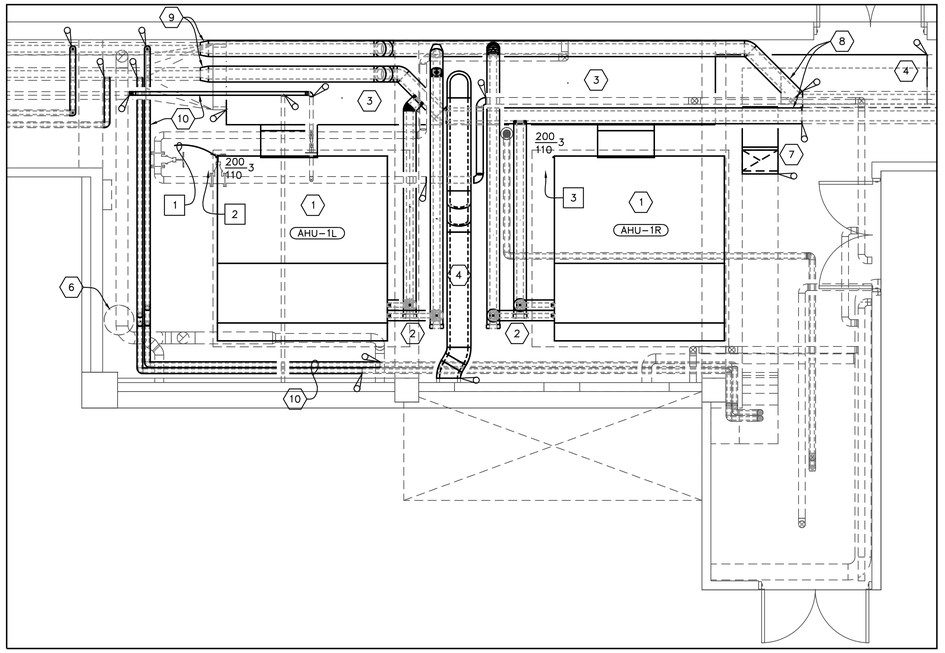
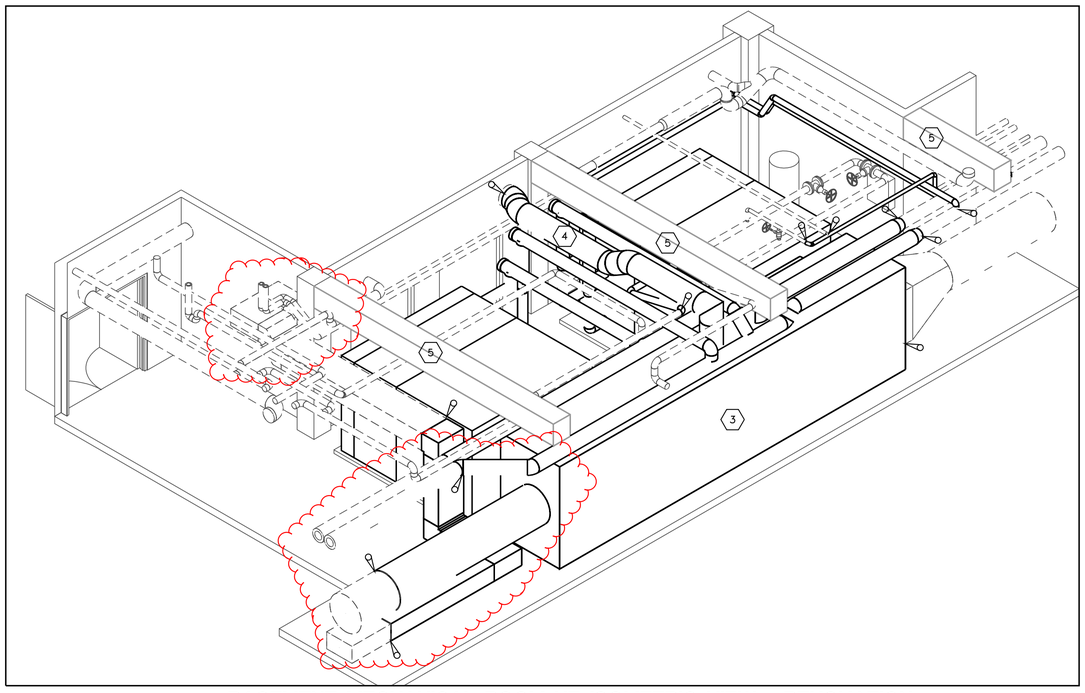


BASEMENT MECHANICAL ROOM SW ISOMETRIC VIEW - RENOVATION
NOT TO SCALE



BASEMENT MECHANICAL ROOM PLAN - RENOVATION
BASE BID

0 2' 4' 8'
SCALE: 1/4" = 1'-0"



BASEMENT MECHANICAL ROOM NE ISOMETRIC VIEW - RENOVATION
NOT TO SCALE

MECHANICAL RENOVATION NOTES: ⬡

1 – THIS DRAWING REPRESENTS THE BASIS OF DESIGN WITH TWO (2) NEW AHU'S USING PLENUM TYPE FANS REPLACING EXISTING UNITS. REFER TO CHILLED WATER AIR HANDLING UNIT SCHEDULE ON DRAWING M0.1.
2 – NEW CHILLED WATER SUPPLY PIPES, VALVES AND CONTROLS. REFER TO DETAIL #001, SECTION 15300 ON DRAWING M0.1.
3 – NEW 56"Wx84"Hx328"L SUPPLY PLENUM. CONNECT NEW AHU'S AND DUCTS TEMPORARILY CAPPED DURING DEMOLITION. PLENUM CONSTRUCTION SHALL BE SUITABLE FOR 6" OPERATING PRESSURE AND BE CONSTRUCTED TO SMACNA STANDARDS. PROVIDE DETAILED FABRICATION DRAWINGS. PLENUM SHALL INCLUDE AT LEAST ONE (1) ACCESS DOOR AND A LIGHT. ACCESS DOOR SHALL OPEN INTO PLENUM. REFER TO PLENUM CONSTRUCTION REQUIREMENTS ON DRAWING M0.1 FOR ADDITIONAL INFORMATION.
4 – NEW SUPPLY AIR DUCT. CONNECT TO PLENUM AND EXISTING SYSTEM. NEW DUCT SIZE TO MATCH EXISTING REMOVED DURING DEMOLITION.
5 – EXISTING STRUCTURAL BEAMS.
6 – EXISTING FIRE SUPPRESSION GAS STORAGE TANK. PROTECT DURING CONSTRUCTION.
7 – NEW DUCT. DUCT SIZE SHOULD MATCH DUCT THAT IT IS CONNECTING TO. TYPICAL UNLESS OTHERWISE NOTED.
8 – NEW CHILLED WATER PIPING. PIPE SIZE SHOULD MATCH PIPE THAT IT IS CONNECTING TO. TYPICAL UNLESS NOTED OTHERWISE.
9 – PROVIDE PIPE TRANSITION TO MATCH EXISTING PIPE SIZE.
10 – NEW SECTION OF PIPING. PIPE MATERIALS AND DIMENSIONS TO MATCH EXISTING.
11 – RUN CONDENSATE DRAIN LINE FROM NEW UNITS TO EXISTING FLOOR DRAIN AND DISCHARGE INDIRECTLY. REFER TO DETAIL #005, SECTION 15223 ON DRAWING M0.1. DRAIN LINES SHALL BE KEPT OUT OF WALKING PATH AS MUCH AS POSSIBLE.

PLENUM CONSTRUCTION REQUIREMENTS:

1 – LISTED REFERENCES ARE FOUND IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE, THIRD EDITION, CHAPTER 9 – EQUIPMENT AND CASINGS.
2 – PAGE 9.1 – CASING AND PLENUM CONSTRUCTION STANDARDS. THE RATING OF THE PLENUM IS 6 IN. W.G. STATIC.
3 – FIGURE 9-1 – PLENUM IS +/-84" HIGH AND SHOULD BE BUILT IN ACCORDANCE WITH THE 6' TO 8' REQUIREMENTS. METAL TO BE GALVANIZED STEEL.
4 – FIGURE 9-2 – STANDING SEAM CASINGS.
5 – FIGURE 9-6 – INSIDE SEAM CASING – 6 IN. W.G.
6 – FIGURE 9-7 – DOUBLE WALL CASING.
7 – FIGURE 9-11M – DOUBLE WALL CASING DETAILS.
8 – FIGURE 9-11M – DOUBLE WALL CASING DETAILS (CONTINUED). TYPICAL ACCESS DOOR.
9 – FIGURE 9-12 – CURB DETAIL.

ELECTRICAL RENOVATION NOTES: ☐

1 – TO MDP QMB-2 IN ADJACENT ROOM.
2 – REPLACE EXISTING FEED AND DISCONNECT. PROVIDE A 1-1/2" CONDUIT WITH 4 #2 THWN CU AND 1 #6 THWN CU EQUIPMENT GROUND. REPLACE EXISTING 100A BREAKER IN QMB-2 WITH 110A BREAKER. ELIMINATE NEUTRAL IF NOT REQUIRED BY UNIT.
3 – REUSE EXISTING FEED AND DISCONNECT FOR NEW AHU. REPLACE 150A FUSES WITH 110A FUSES.

GENERAL NOTE:
– ANY EXISTING PANELS AND/OR NEW PANELS IMPACTED UNDER THIS SCOPE SHALL BE ARC FLASH CERTIFIED AND LABELED AS SUCH.

MH
A/S

BASEMENT MECHANICAL ROOM PLAN - BASE BID AHU'S