

November 21, 2016
BOARD OF COUNTY COMMISSIONERS
ORANGE COUNTY, FLORIDA
Addendum No. 2, IFB Y17-713-CC
BARNETT PARK AIR HANDLING UNITS REPLACEMENT

Revised Bid Opening Date: November 29, 2016

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. Underlining indicates additions, deletions are indicated by ~~strikethrough~~.

A. The bid opening date is changed from ~~November 22, 2016 at 2:00 P.M.~~ to November 29, 2016 at 2:00 P.M.

B. Additions, Deletions and Clarifications:

1. Revision: The following attached drawings have been revised:

a. M202 dated 11/15/16 - Added fire dampers. Revised sound attenuator location.

2. Question: During the site visit we did not find or locate a chemical feed system or a by-pass feeder for the injection of the chemicals into the piping system. Do any of these items exist? Will a chemical feeder be required to perform the cleaning and treatment?

Answer: An existing chemical shot feeder is present in the chiller yard. Please see attached photo (below) for the actual location (adjacent to the expansion tank and chilled water supply/return riser).



3. **Question:** Reference drawing M101 – AHU-1 mechanical room, M103 – AHU-1R and chair storage room, are exposed ceiling present in these rooms?
Answer: The rooms referenced above all have exposed ceilings.

4. **Question:** M101 and M102 General Notes 1 and 2, where do those two notes apply on the floor plan. It is not marked.
Answer: General notes are applicable to the entire drawing. Note 2 references the exhaust system located in the restrooms. All new CFMS are designated beside exhaust air grille for re-balancing of exhaust systems.
5. **Question:** M101 note to remove and replace 2 ½ CHW S/R with new 3" CHW S/R while M201, D1 note says to remove and discard. Which note is correct?
Answer: Both notes are referencing the same scope of work. M201 D11 states to remove and discard chw pipes and note N13 on sheet M202 states to replace it with new 3" pipe.
6. **Question:** Drawing M202, on the second floor mechanical phasing plan, shows the sound attenuator being relocated in a fire wall. Is a fire damper not required? Please clarify.
Answer: Fire dampers will be required in wall. Sheet M202 has been revised to reflect this change.
7. **Question:** Drawing M103 states to reroute a vent pipe to accommodate the new duct. Please clarify the size and material of the vent pipe. Also, will rerouting require a new roof penetration?
Answer: Existing piping is a 2" cast iron pipe with hubless fittings. Rerouting shall not involve a new roof penetration.
8. **Question:** Please specify the roofing material where the new Intake Vent is to be installed. Is it concrete decking or metal decking? If the roof is metal decking will additional structural supports be required to support the Intake Vent?
Answer: Roofing material is specified in specification 07133. Roof construction is metal decking. Structural supports shall be provided according to intake ventilator installation instructions.
9. **Question:** Drawing M101 calls for the existing 155 ton chiller to be refurbished. Please advise how the contractor is to brush the evaporator coils when they are encapsulated in the evaporator barrel?
Answer: Services shall be provided by OEM manufacturer, Trane. Contact Tyler Jesse at 407-660-1111.
10. **Question:** Drawing M101 states to bypass the coils at all AHU's in order to flush the CHW system. Please clarify how many AHU's total is part of this CHW Loop?
Answer: There are two air handling units (AHU-1 and AHU-2) providing conditioned air for the gymnasium and two air handling units for the recreational facility that will be replaced as part of this project.

11. Question: Drawing M202, New Plan Note N7 states to install a 36x36 transfer opening above a fire rated ceiling. What type of wall is the transfer going through CMU or drywall? And is it a fire rated wall? Please clarify.

Answer: The wall the transfer will be constructed in is CMU and the transfer opening will be constructed about the fire rated lid and does not require any fire dampers.

12. Question: Is it possible to find out who the manufacturer of the existing electrical panels are at Barnett Park?

Answer: According to Orange County Facilities Management, electrical panel type is Siemens.

13. Question: Can you provide Architectural Reflected Ceiling as-built drawings for the first and second floor areas indicating replacement of ductwork as shown on M103? Mechanical Drawings do indicate a specific area of a fire-rated ceiling.

Answer: Please see the attached as-built drawings provided for information only (Sheet M-1 dated 5/25/1995, and Sheet M-2 dated 5/25/1995). In addition, per Orange County Facilities Management, these areas are acoustical ceiling tile. Refer to Sheet M403 for fire rated lid construction and location.

C. Attachments: M202 dated 11/15/16, Sheet M-1 dated 5/25/1995, Sheet M-2 dated 5/25/1995

D. ACKNOWLEDGEMENT OF ADDENDA

- a. The Bidder/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 the bid or proposal.
- b. All other terms and conditions of the IFB remain the same.
- c. Receipt acknowledged by:

Authorized Signature

Date Signed

Title

Name of Firm

Client:



Consultants:

EOR Stamp:



09/29/2016
Dalrio A. Lewis, PE 77571 (FL)

Project:
Barnett Park AHU Replacement

Location:
4801 W Colonial Dr,
Orlando, FL, 32808

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description
1	11/8/16	ADDENDUM 1
2	11/15/16	ADDENDUM 2
6		

Date:
09/29/2016

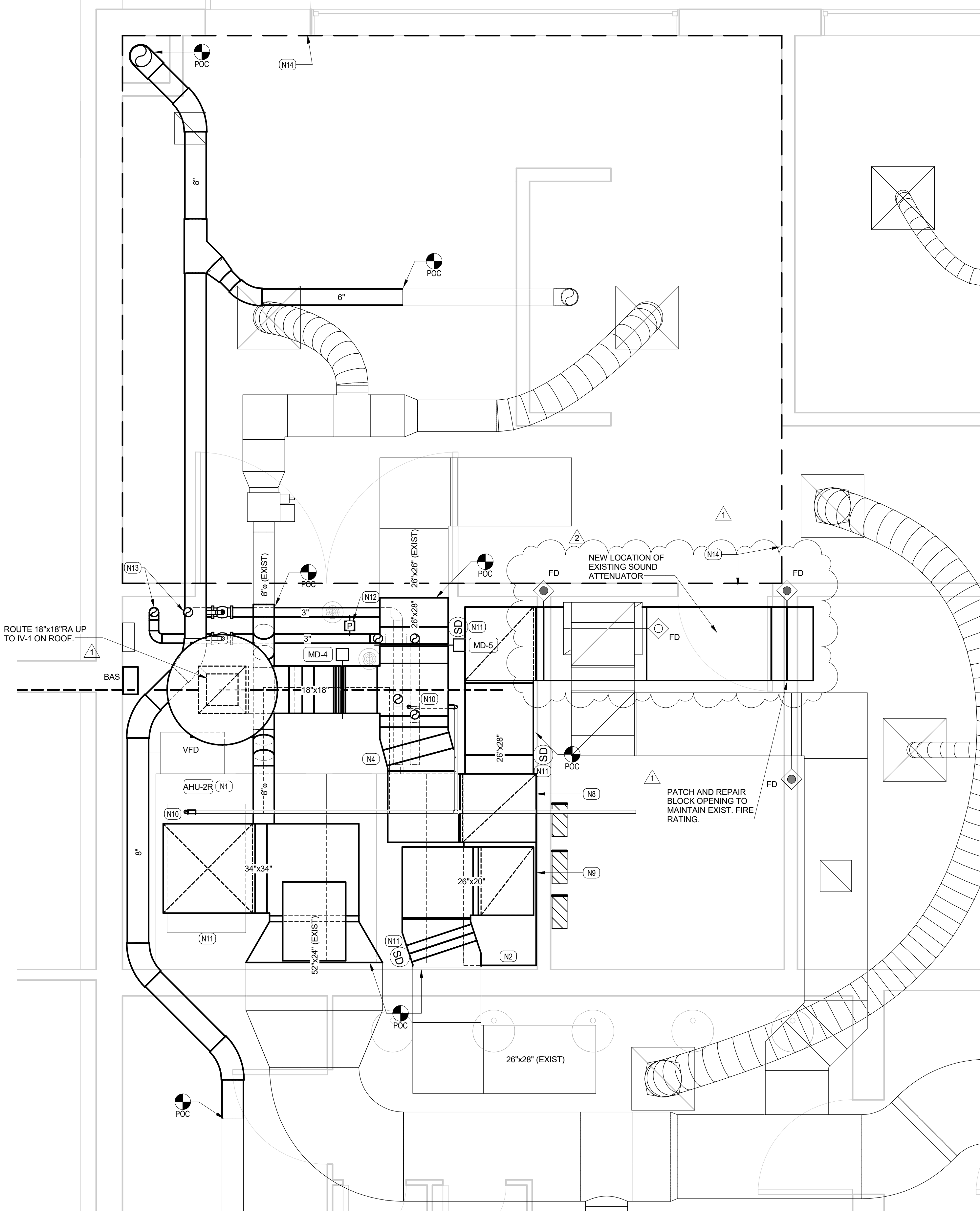
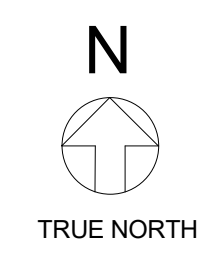
Project Number:
16.OC.027

Drawn By: SE
Checked By: DL

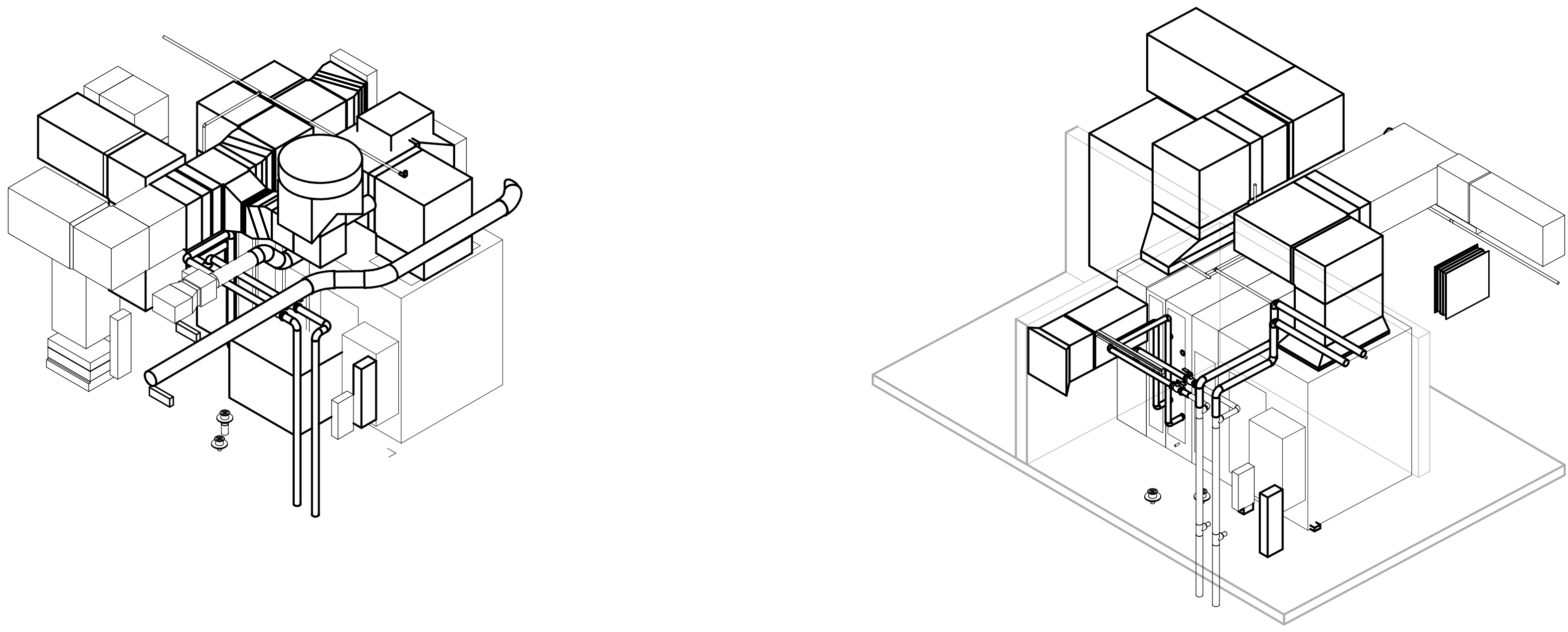
MECHANICAL NEW PLANS

Sheet No.:

M202

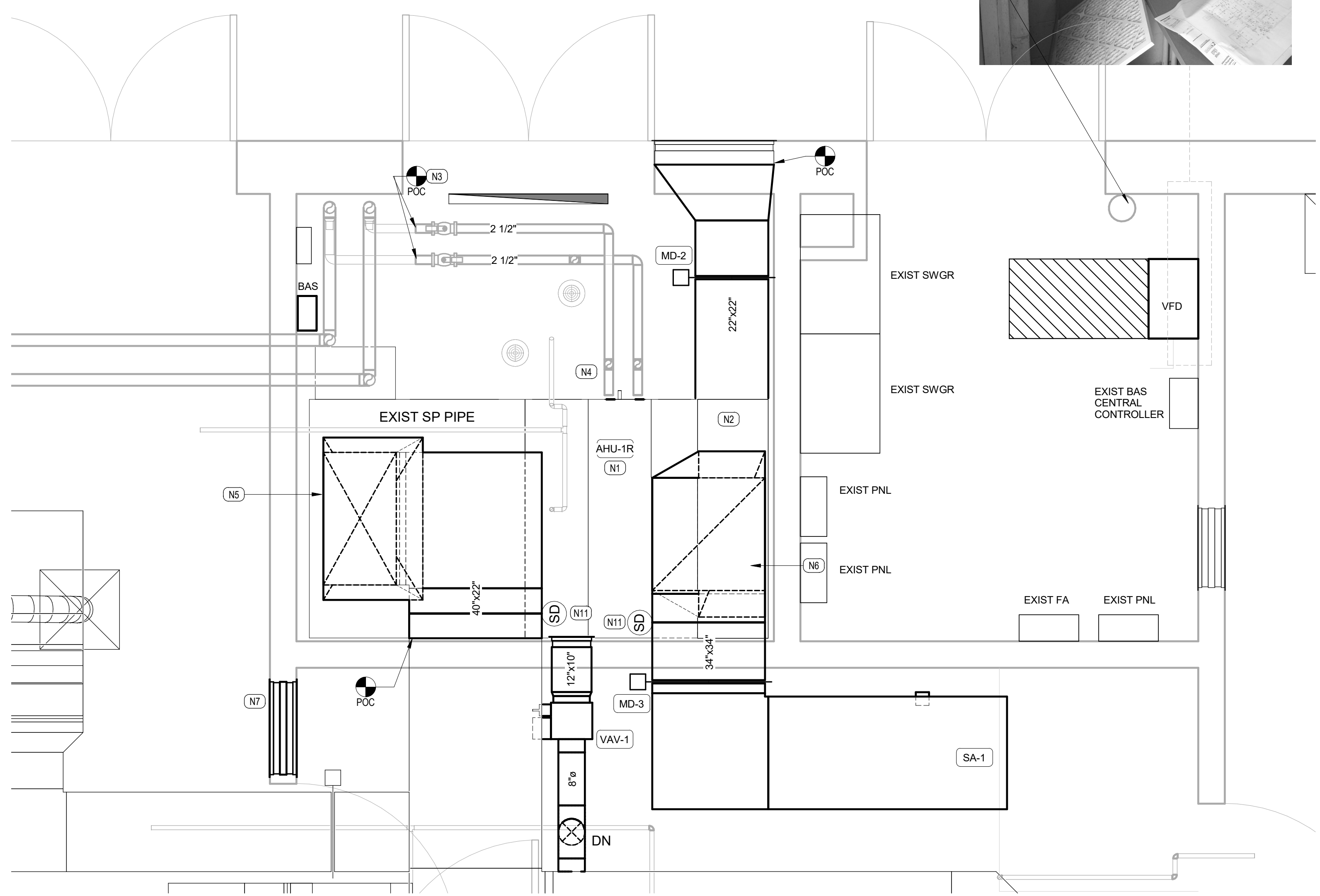


2 Second Floor New Partial Mechanical Plan(ADMIN)
1/2" = 1'-0"

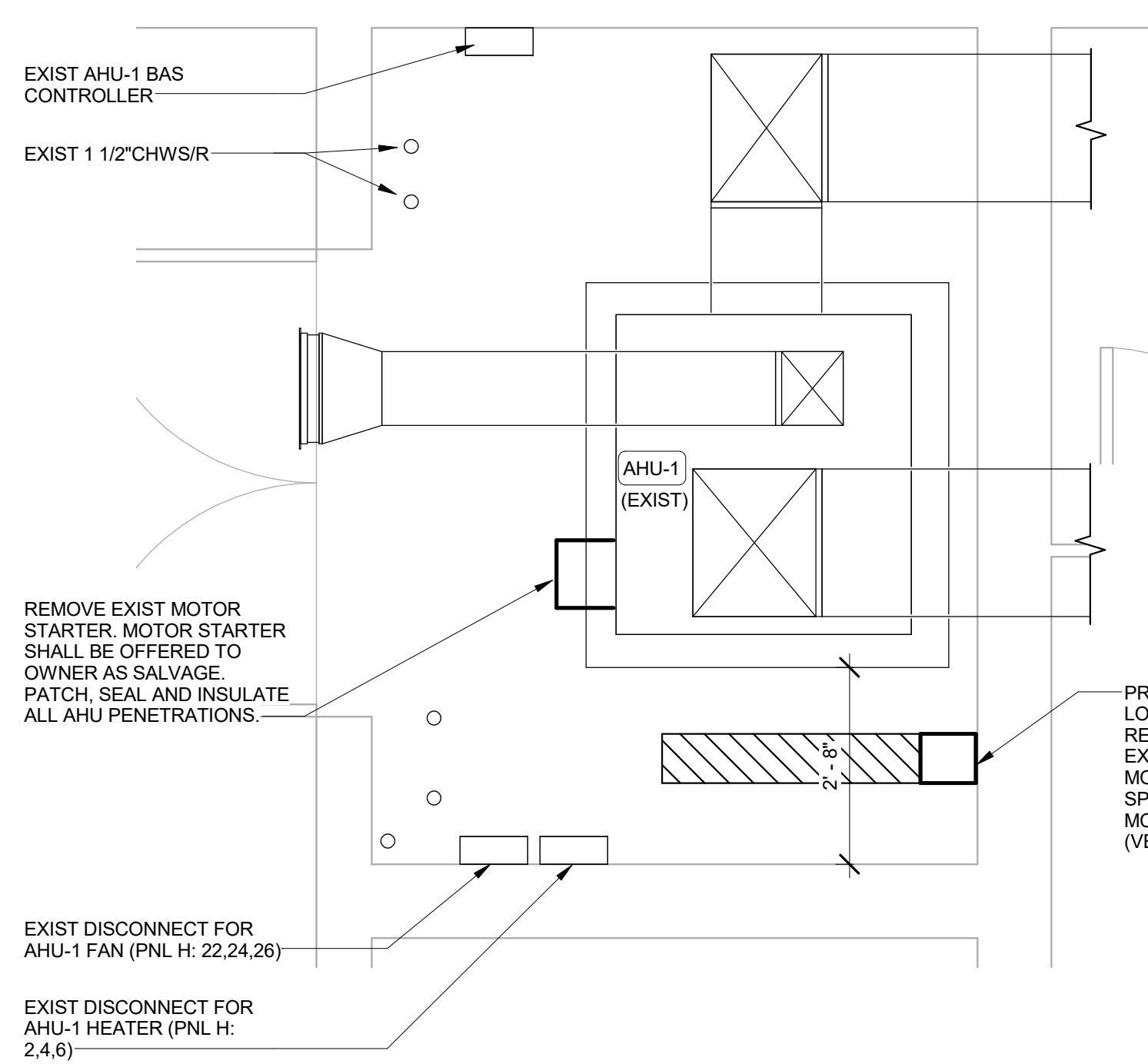


5 Second Floor Mechanical Room Isometric

4 First Floor Mechanical Room Isometric



1 First Floor Partial Mechanical Plan New (ADMIN)
1/2" = 1'-0"



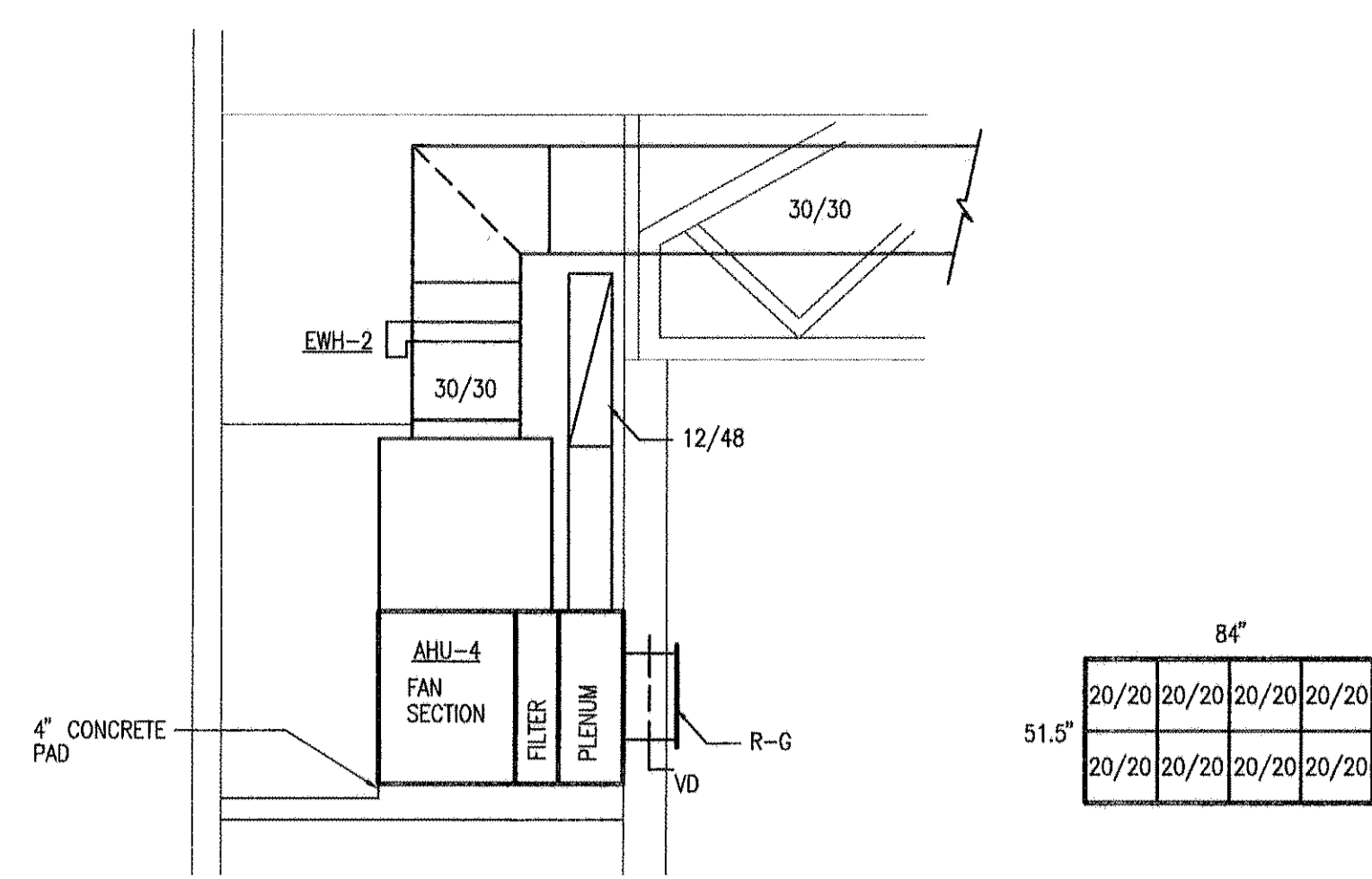
3 First Floor Partial Mechanical Plan - (GMY)
1/2" = 1'-0"

GENERAL NOTES:

- BUILDING SHALL REMAIN OPERATIONAL DURING AHU INSTALLATION.
- ALL CHW PIPING (NEW/EXISTING) SHALL BE PROVIDED WITH ALUMINUM JACKETING IN MECHANICAL ROOMS.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DUCT AND PIPE SIZES FOR POINTS OF CONNECTION PRIOR TO START OF WORK. PROVIDE ALL DUCT/PIPE TRANSITIONS AS REQUIRED FOR CONNECTION OF NEW DUCT/PIPING TO EXISTING. FIELD VERIFY FINAL LOCATIONS OF DDC AND VFD WITH FIELD CONDITIONS PRIOR TO INSTALLATION. VFD/DC SHALL NOT BE INSTALLED UNDER ANY EXISTING WATER PIPES. PROVIDE NEW CONTROLS PER CONTROLS SHEETS. CONNECT TO EXISTING BAS.
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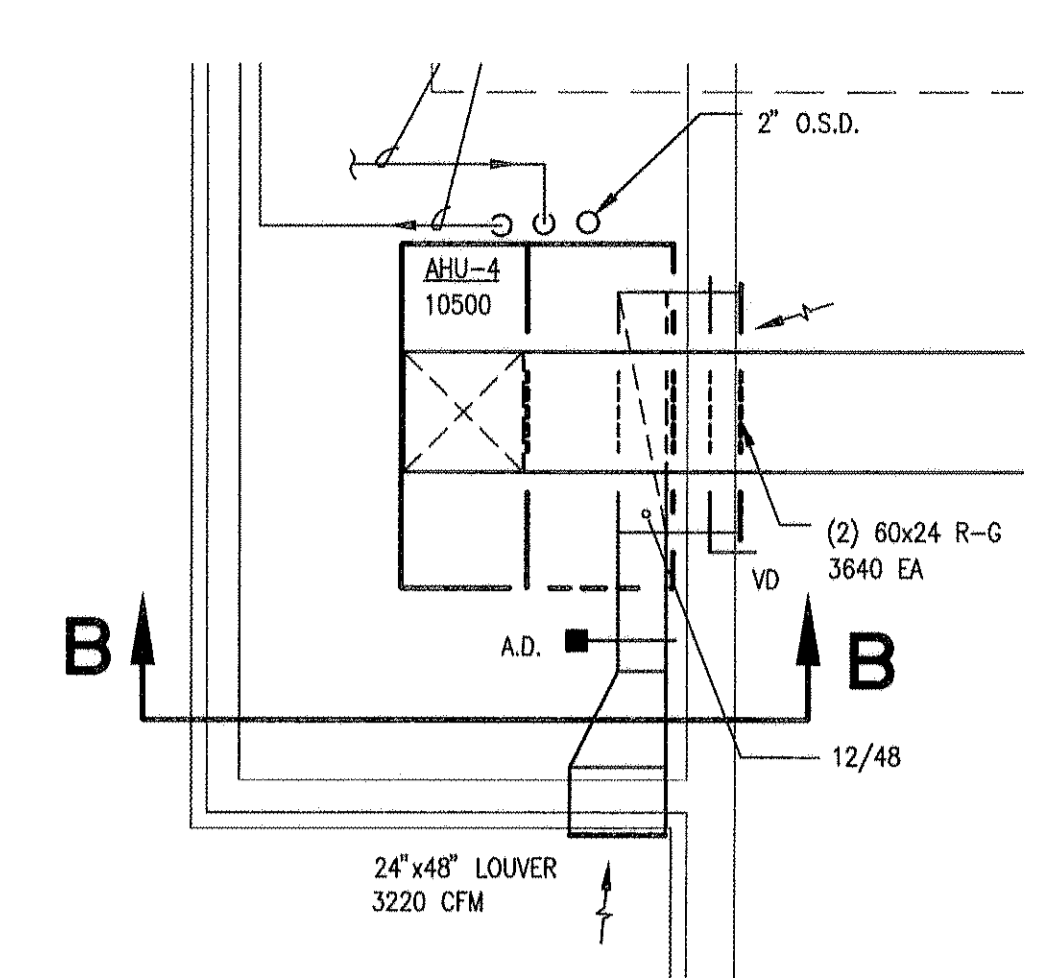
NEW PLAN NOTES

- N1 MOUNT NEW AHU ON EQUIPMENT BASE RAILS AND VIBRATION ISOLATION PADS. ROUTE 2 1/2" CHWS/R DN TO AHU. ROUTE 1 1/4" CD TO EXIST CD.
- N2 PROVIDE BUILT UP RA PLENUM SECTION AT BACK OF AHU.
- N3 CONNECT NEW PIPING TO EXISTING. PROVIDE NEW ISOLATION VALVES.
- N4 ROUTE 2 1/2" CHWS/R DN TO AHU-1R. ROUTE 3" CHWS/R DN TO AHU-2R.
- N5 ROUTE 40x22 SA UP FROM AHU-1R.
- N6 ROUTE 26x26 RA DN TO RA PLENUM.
- N7 PROVIDE 36x36 TRANSFER OPENING ABOVE FIRE RATED CEILING.
- N8 ROUTE 26x26 RA/CA DN TO RA PLENUM.
- N9 ROUTE 26x26 RA DN TO RA PLENUM.
- N10 PROVIDE NEW UPRIGHT SPRINKLER HEAD AND GUARD. REROUTE SPRINKLER TO AVOID DUCTWORK.
- N11 CONNECT SD TO EXIST FIRE ALARM SYSTEM.
- N12 PROVIDE DIFFERENTIAL PRESSURE SWITCH IN CHW PIPING. CONNECT TO BAS FOR SECONDARY PUMP SPEED CONTROL.
- N13 ROUTE 1" CHWS/R FROM FIRST FLR MECH UP TO 2ND FLR MECH RM. PROVIDE MANUAL AIR VENT AT THE TOP OF THE CHW RISER. PROVIDE NEW ISOLATION VALVES.
- N14 AREA SHALL BE DEMISED OFF FROM VIEWING OF PUBLIC. PROVIDE VISQUEEN WALLS AROUND MECHANICAL ROOM FOR DUST CONTROL. PROTECT ALL EXISTING EQUIPMENT FROM DAMAGE. AREA SHALL BE RESTORED TO PRECONSTRUCTION CONDITION.



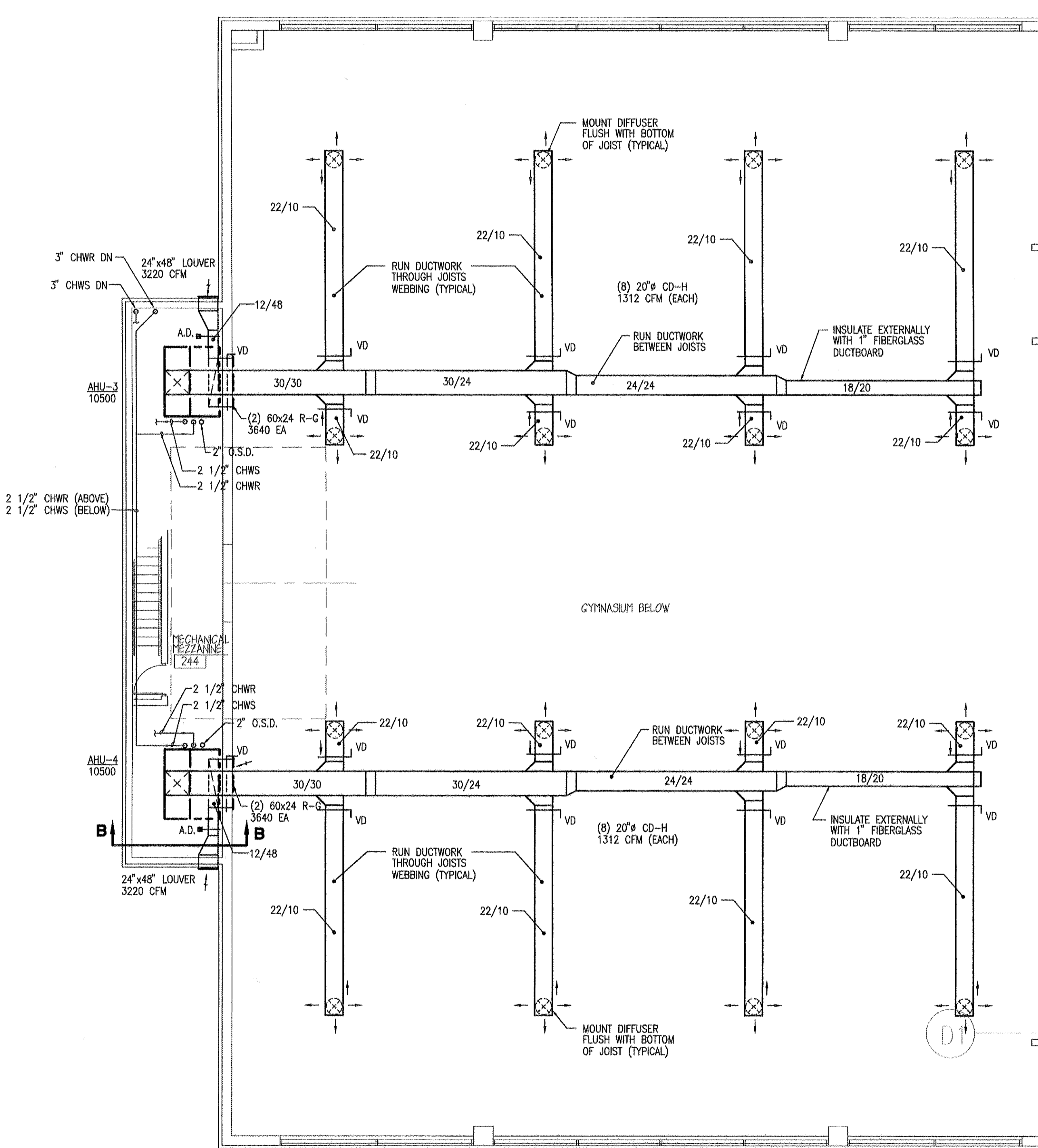
SECTION 'B-B'
SCALE 1/4" = 1'-0"

FILTER BANK 'AHU-3' AND 'AHU-4'
SCALE 1/4" = 1'-0"

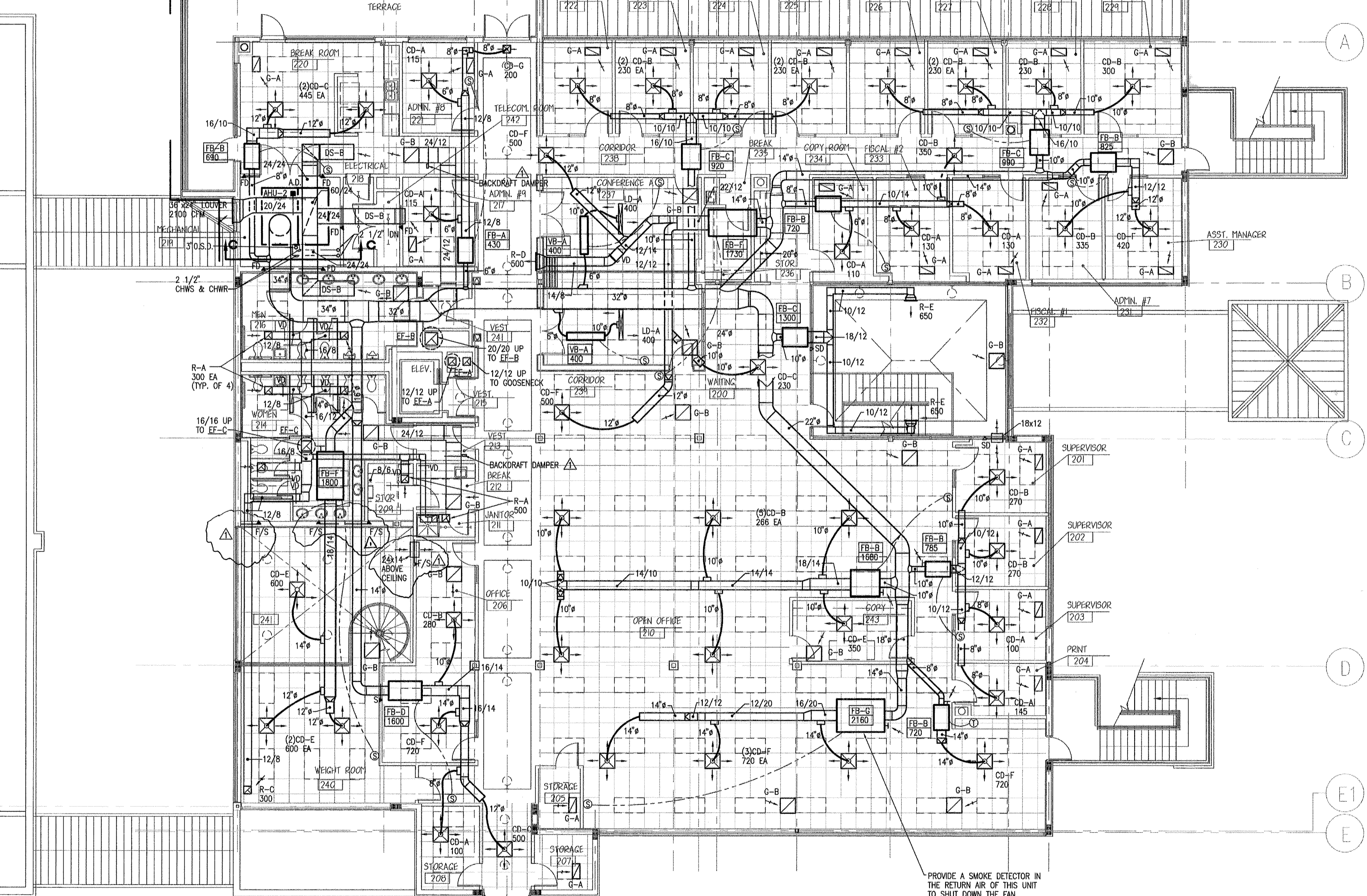


GYMNASIUM PARTIAL FLOOR PLAN
SCALE 1/4" = 1'-0"

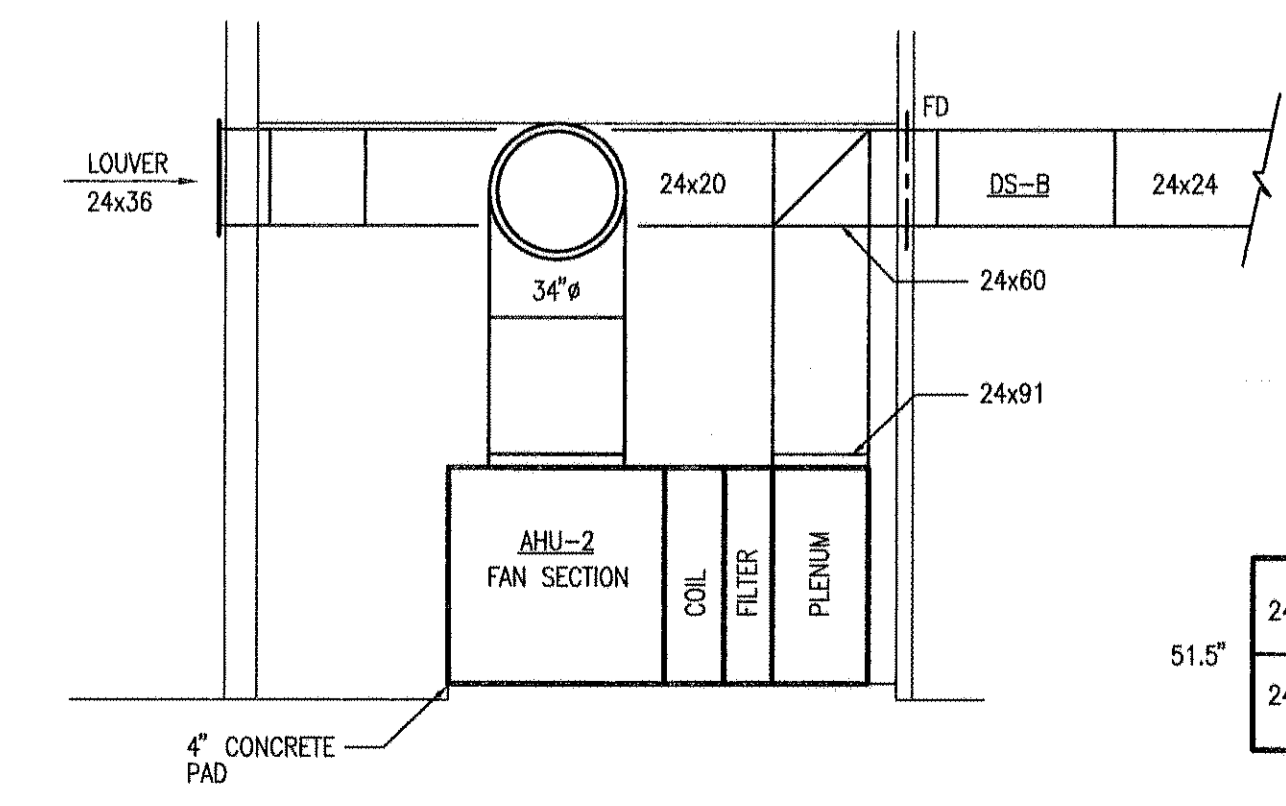
ALT. 1 BASE BID



GYMNASIUM BELOW

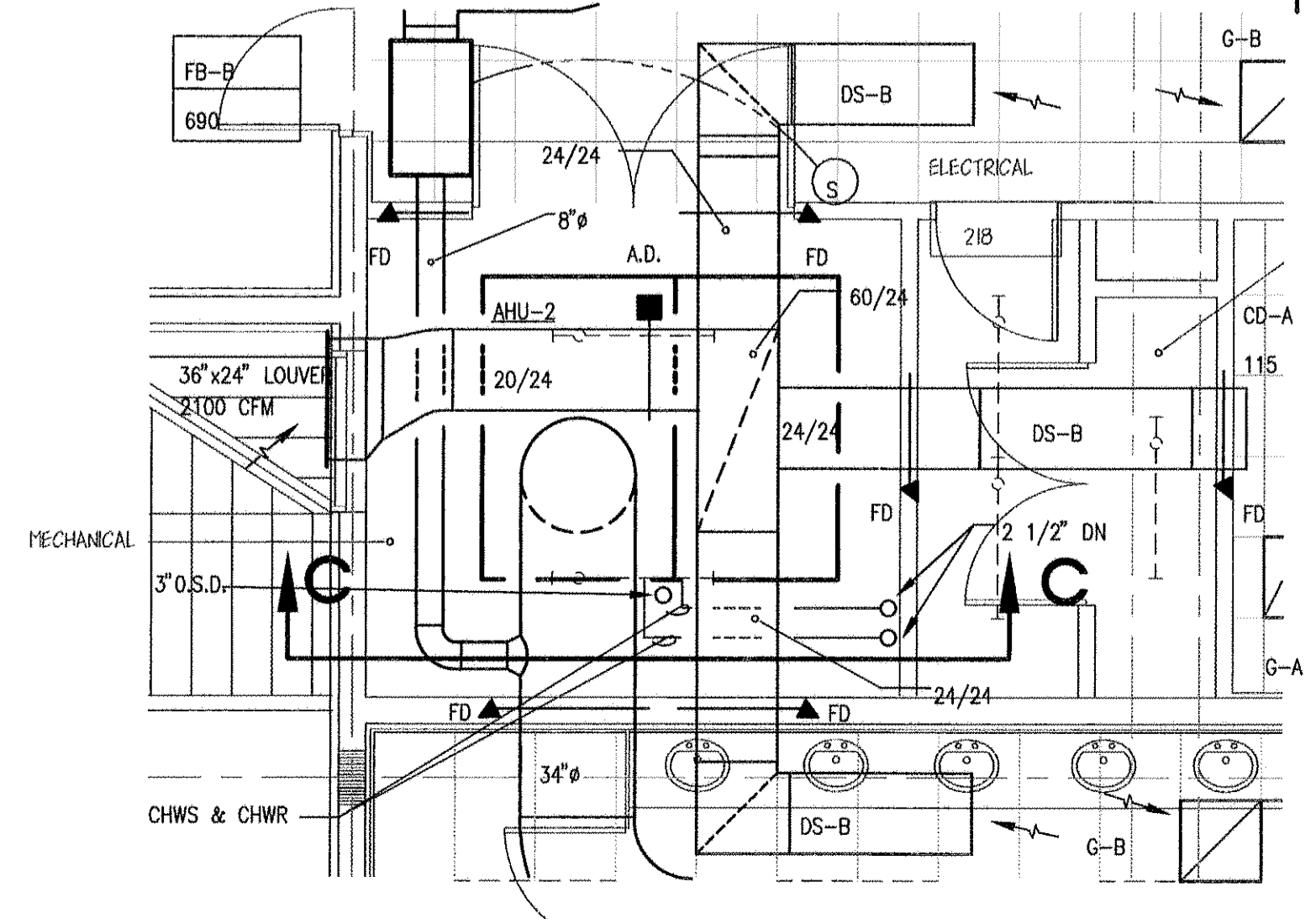


ALT. 1 BASE BID

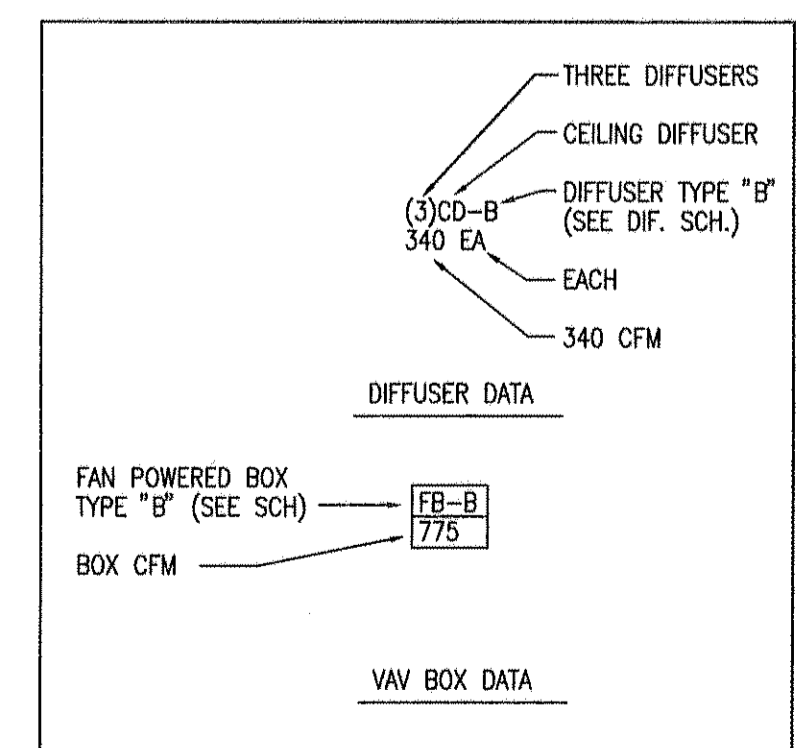


SECTION 'C-C'
SCALE 1/4" = 1'-0"

FILTER BANK 'AHU-2'
SCALE 1/4" = 1'-0"



PARTIAL FLOOR PLAN - MECH. ROOM 219
SCALE 1/4" = 1'-0"

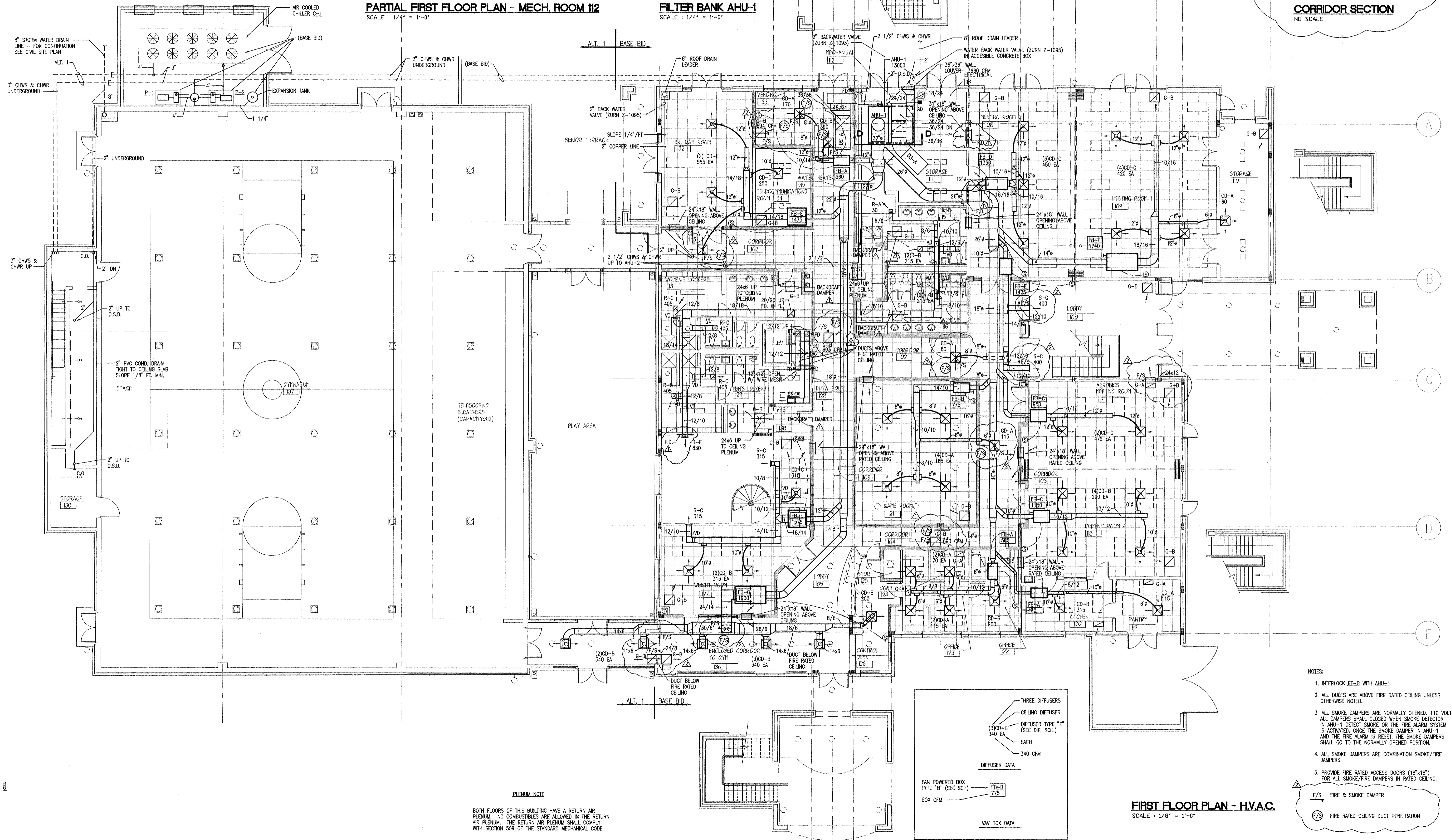
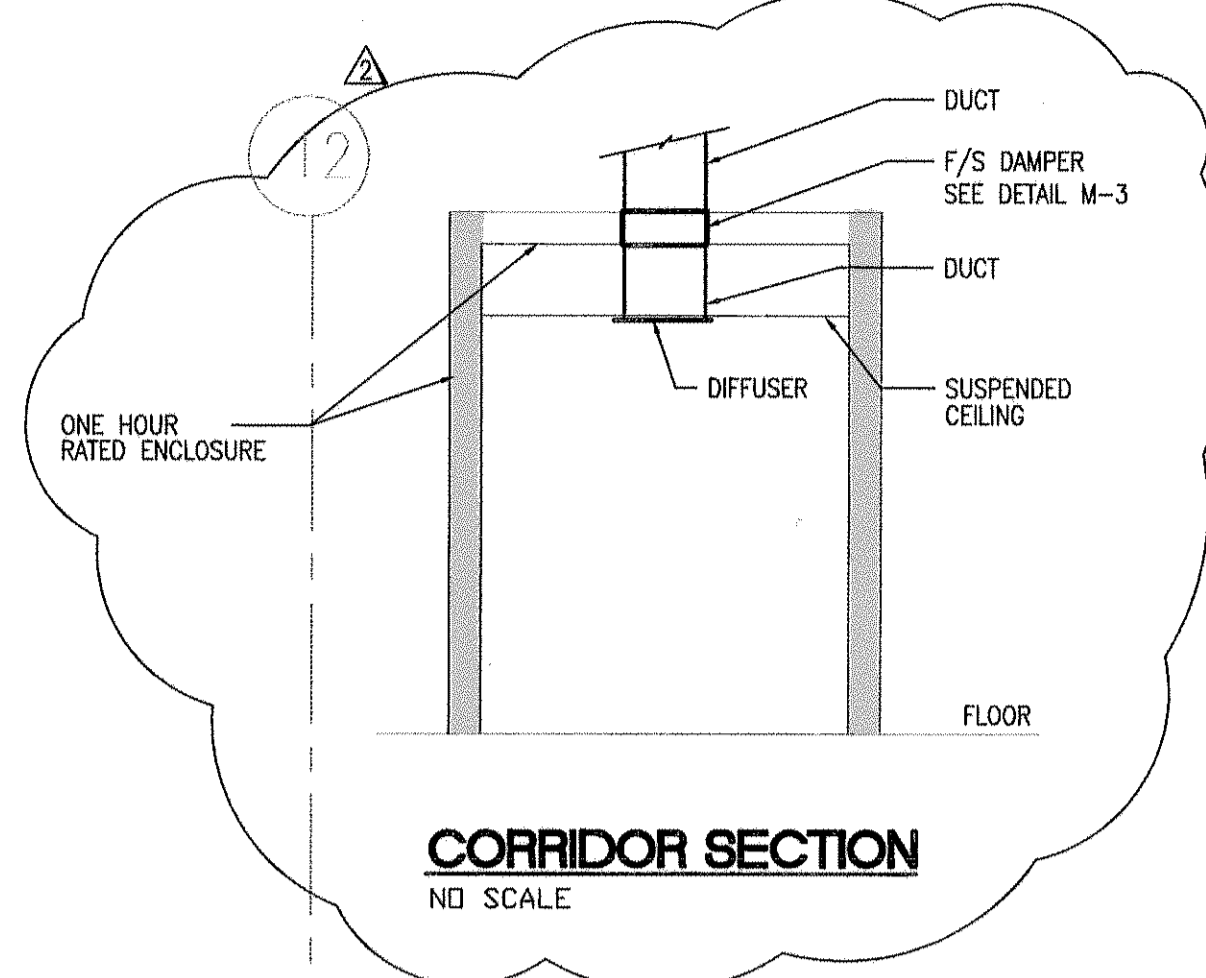
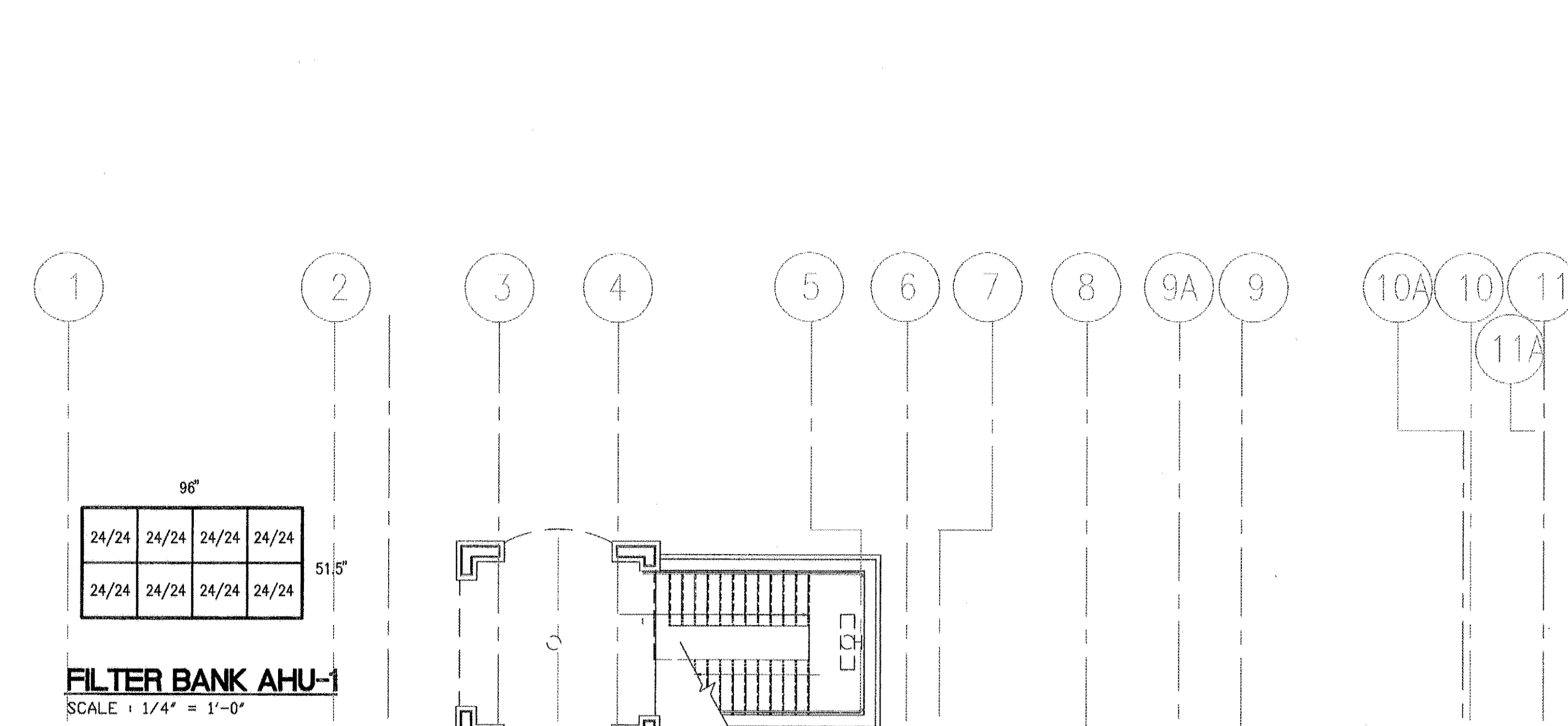
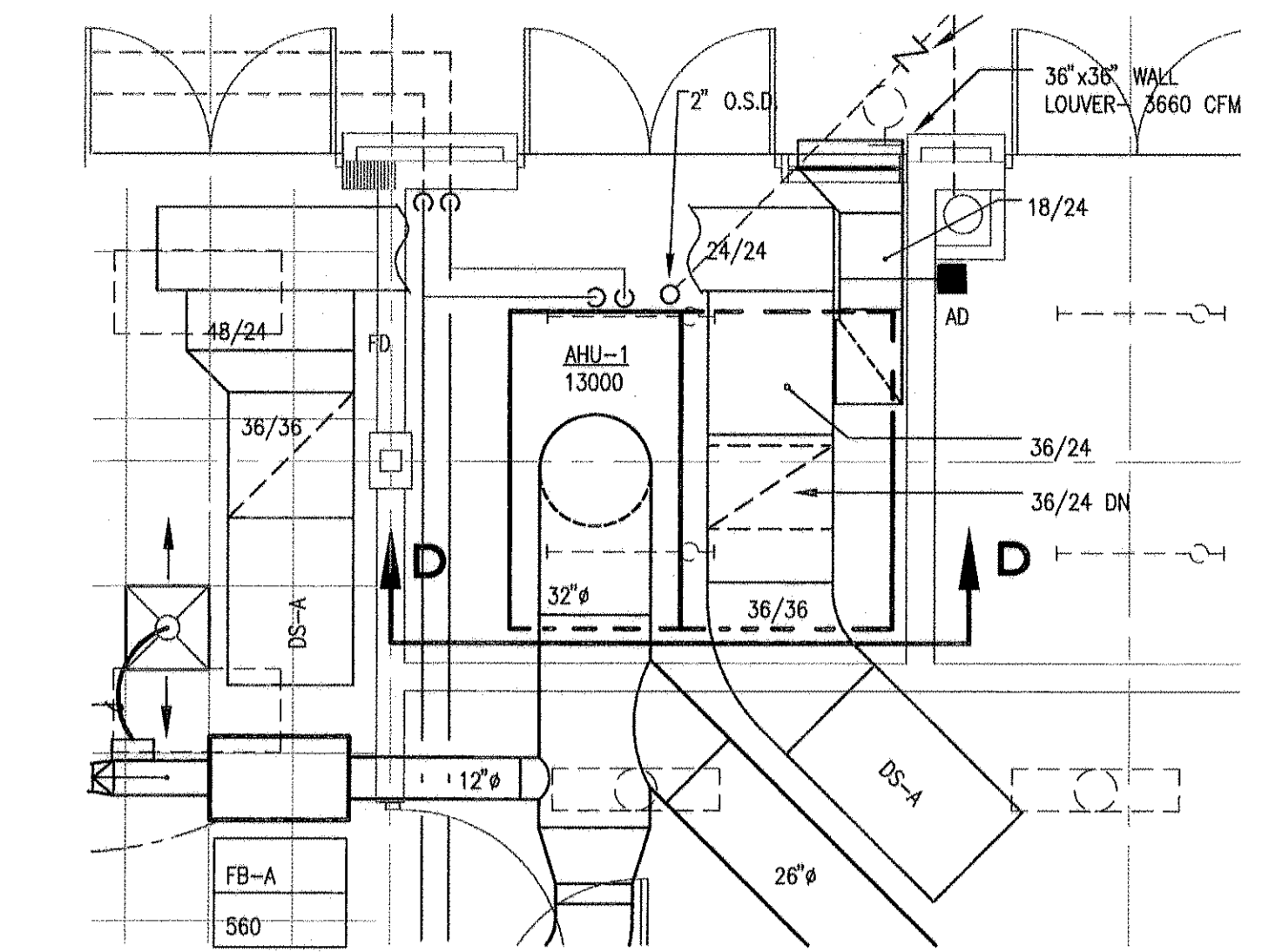
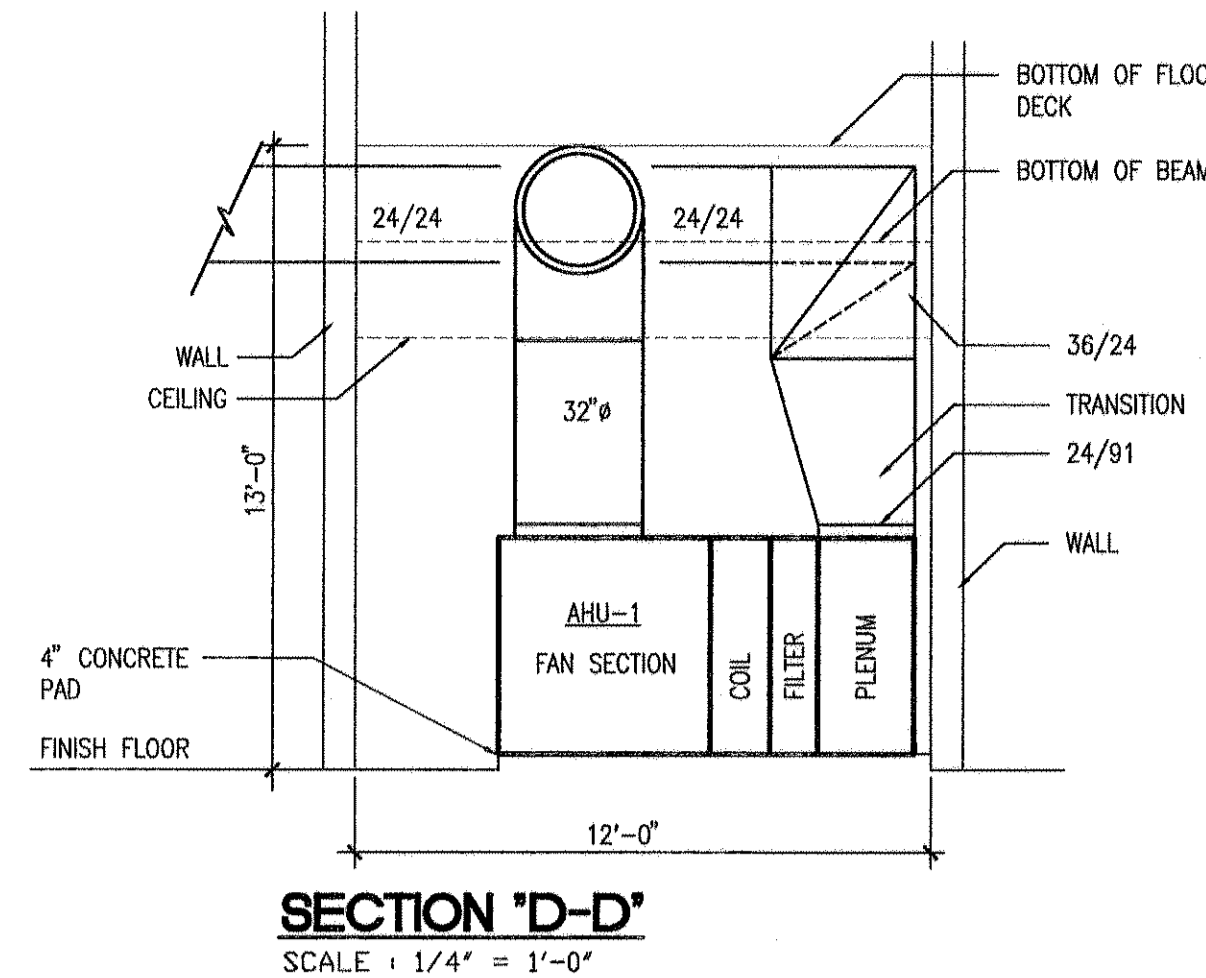


PLENUM NOTES
BOTH FLOORS OF THIS BUILDING HAVE A RETURN AIR PLENUM. NO COMBUSTIBLES ARE ALLOWED IN THE RETURN AIR PLENUM. THE RETURN AIR PLENUM SHALL COMPLY WITH SECTION 509 OF THE STANDARD MECHANICAL CODE.

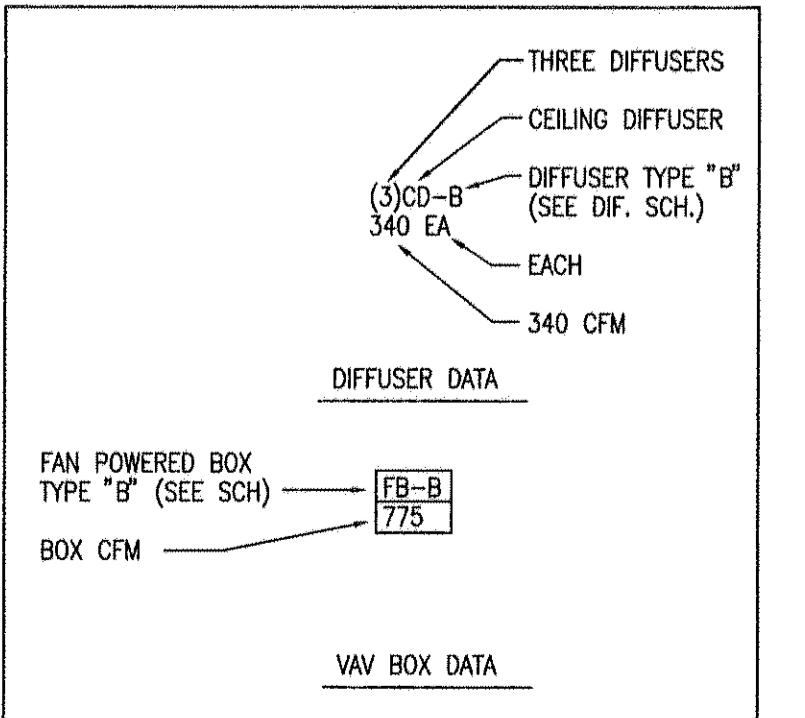
PROVIDE A SMOKE DETECTOR IN THE RETURN AIR OF THIS UNIT TO SHUT DOWN THE FAN.

SECOND FLOOR PLAN - HVAC.
SCALE 1/8" = 1'-0"

- NOTES**
1. INTERLOCK EE-B WITH AHU-1
 2. ALL DUCTS ARE ABOVE FIRE RATED CEILING UNLESS OTHERWISE NOTED.
 3. ALL SMOKE DAMPERS ARE NORMALLY OPENED. 110 VOLTS. ALL DAMPERS SHALL CLOSED WHEN THE SMOKE DETECTOR IN AHU-2 DETECT SMOKE OR THE FIRE ALARM SYSTEM IS ACTIVATED. ONCE THE SMOKE DAMPER IN AHU-2 AND THE FIRE ALARM IS RESET, THE SMOKE DAMPERS SHALL GO TO THE NORMALLY OPENED POSITION.
 4. ALL SMOKE DAMPERS ARE COMBINATION SMOKE/FIRE DAMPERS
 5. PROVIDE FIRE RATED ACCESS DOORS (18"x18") FOR ALL SMOKE/FIRE DAMPERS IN RATED CEILING.



PLENUM NOTE
BOTH FLOORS OF THIS BUILDING HAVE A RETURN AIR PLENUM. NO COMBUSTIBLES ARE ALLOWED IN THE RETURN AIR PLENUM. THE RETURN AIR PLENUM SHALL COMPLY WITH SECTION 509 OF THE STANDARD MECHANICAL CODE.



- NOTES:**
- INTERLOCK EF-B WITH AHU-1
 - ALL DUCTS ARE ABOVE FIRE RATED CEILING UNLESS OTHERWISE NOTED.
 - ALL SMOKE DAMPERS ARE NORMALLY OPENED, 110 VOLTS. ALL DAMPERS SHALL CLOSE WHEN SMOKE DETECTOR IN AHU-1 DETECTS SMOKE OR THE FIRE ALARM SYSTEM IS ACTIVATED. ONCE THE SMOKE DAMPER IN AHU-1 AND THE FIRE ALARM IS RESET, THE SMOKE DAMPERS SHALL GO TO THE NORMALLY OPENED POSITION.
 - ALL SMOKE DAMPERS ARE COMBINATION SMOKE/FIRE DAMPERS
 - PROVIDE FIRE RATED ACCESS DOORS (18"x18") FOR ALL SMOKE/FIRE DAMPERS IN RATED CEILING.
- F/S FIRE & SMOKE DAMPER
F/S FIRE RATED CEILING DUCT PENETRATION

14 05/05/95 1402