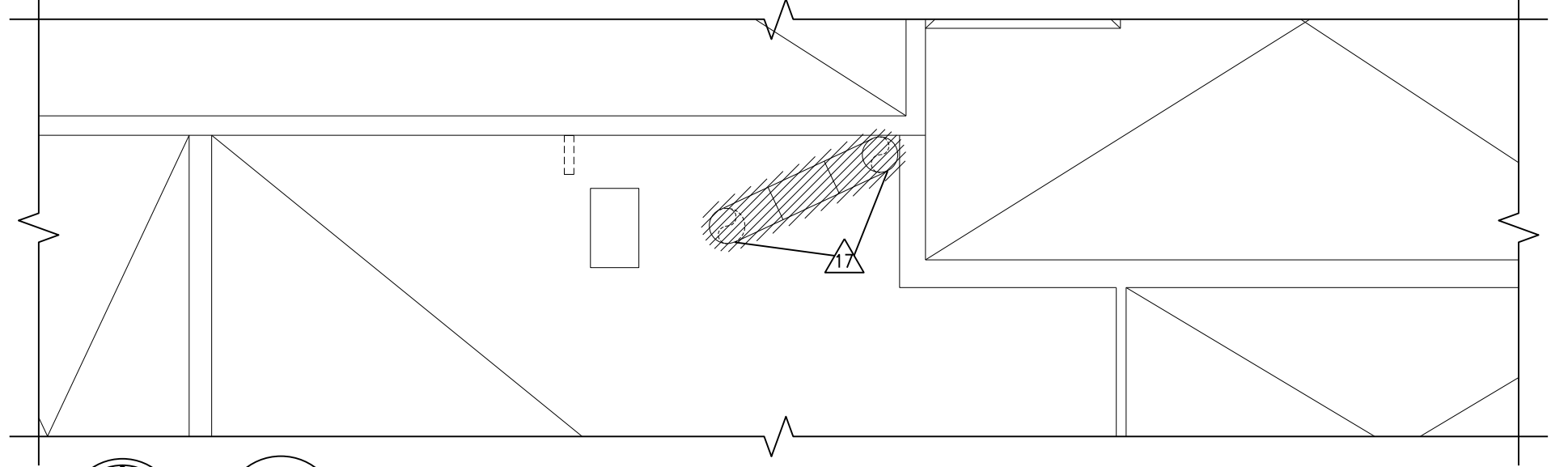
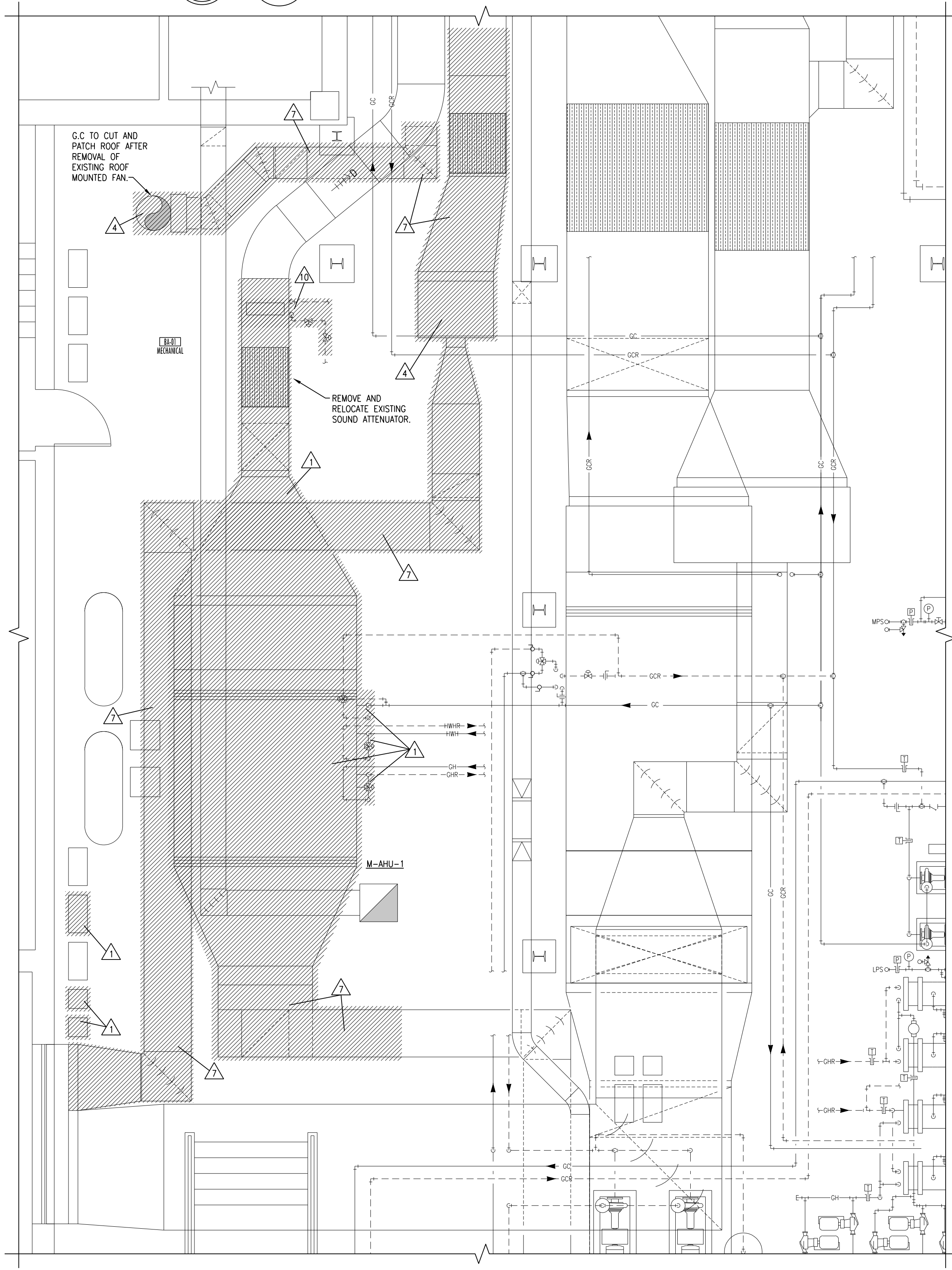


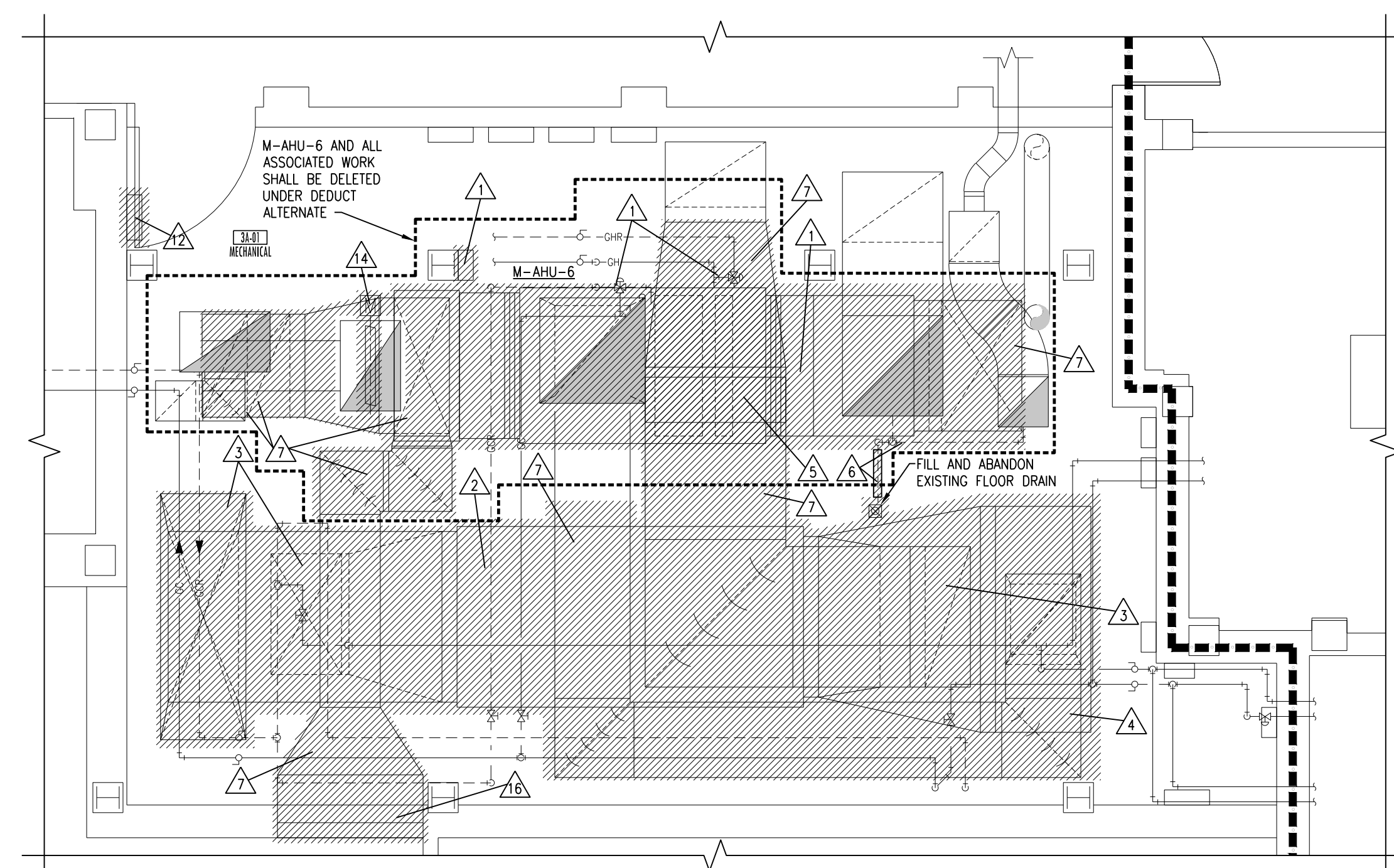
8 EXISTING LAYOUT BB-05 DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



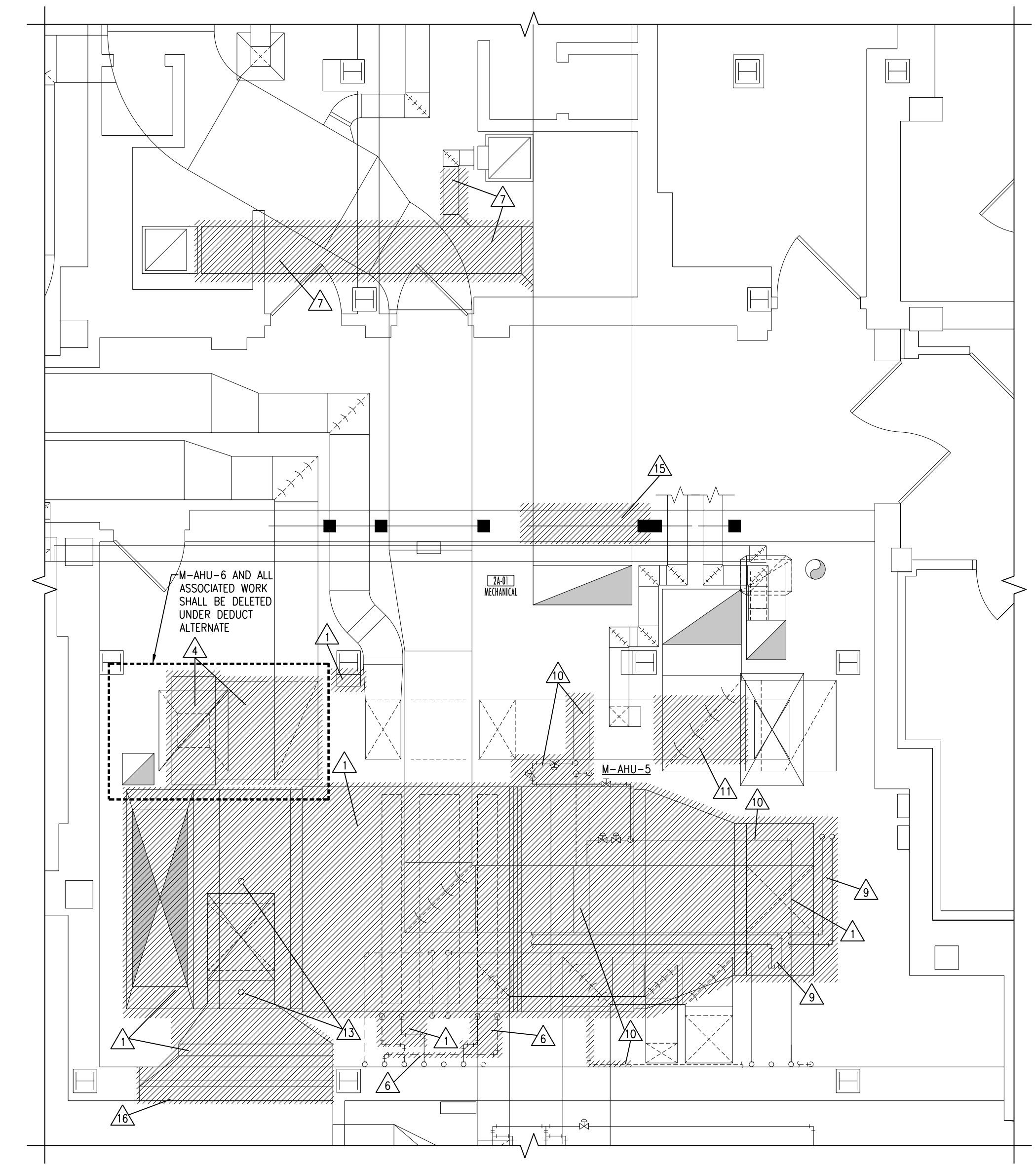
7 MECHANICAL ROOM ROOF VENTILATION DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



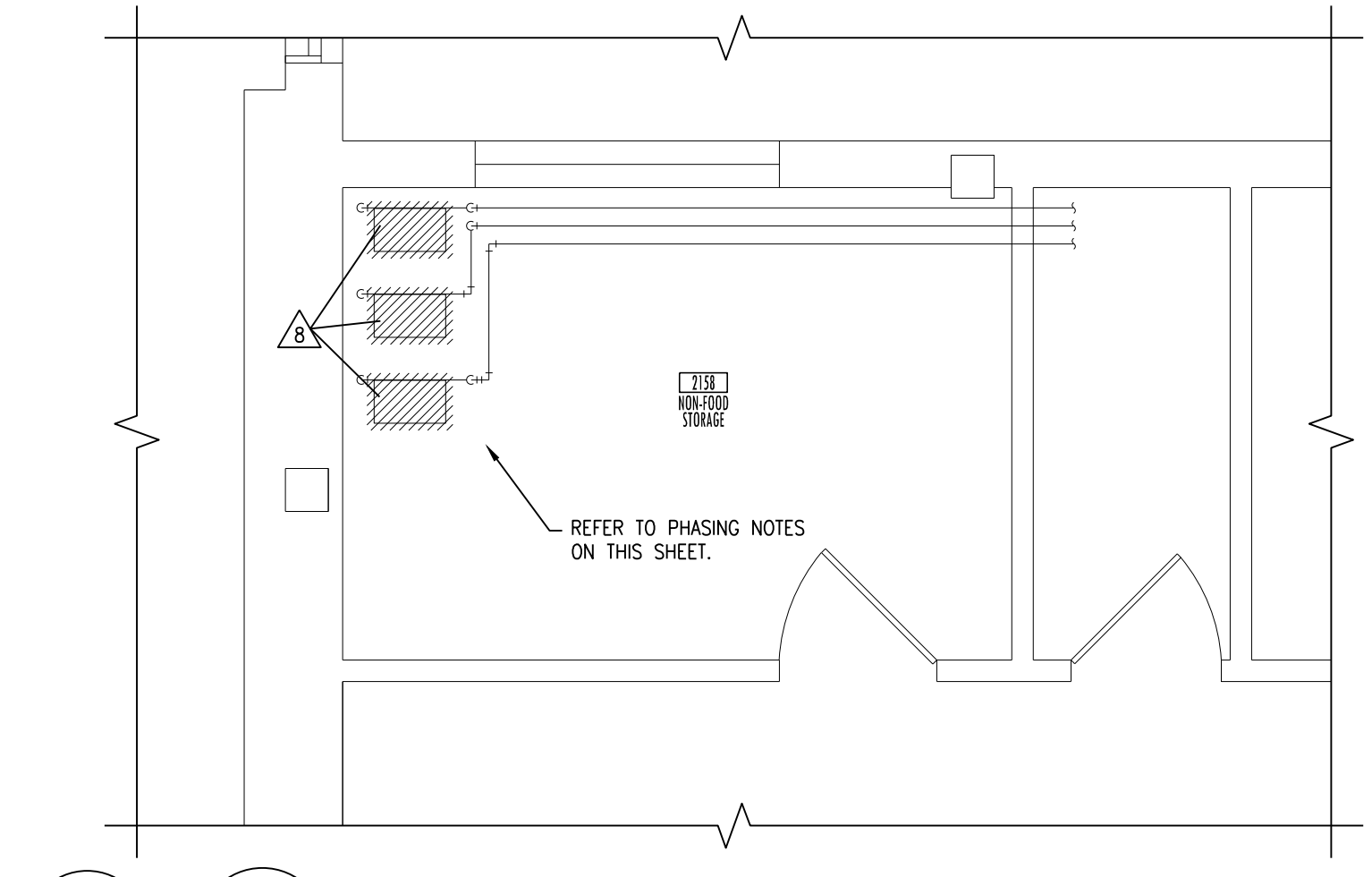
6 EXISTING LAYOUT BA-01 DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



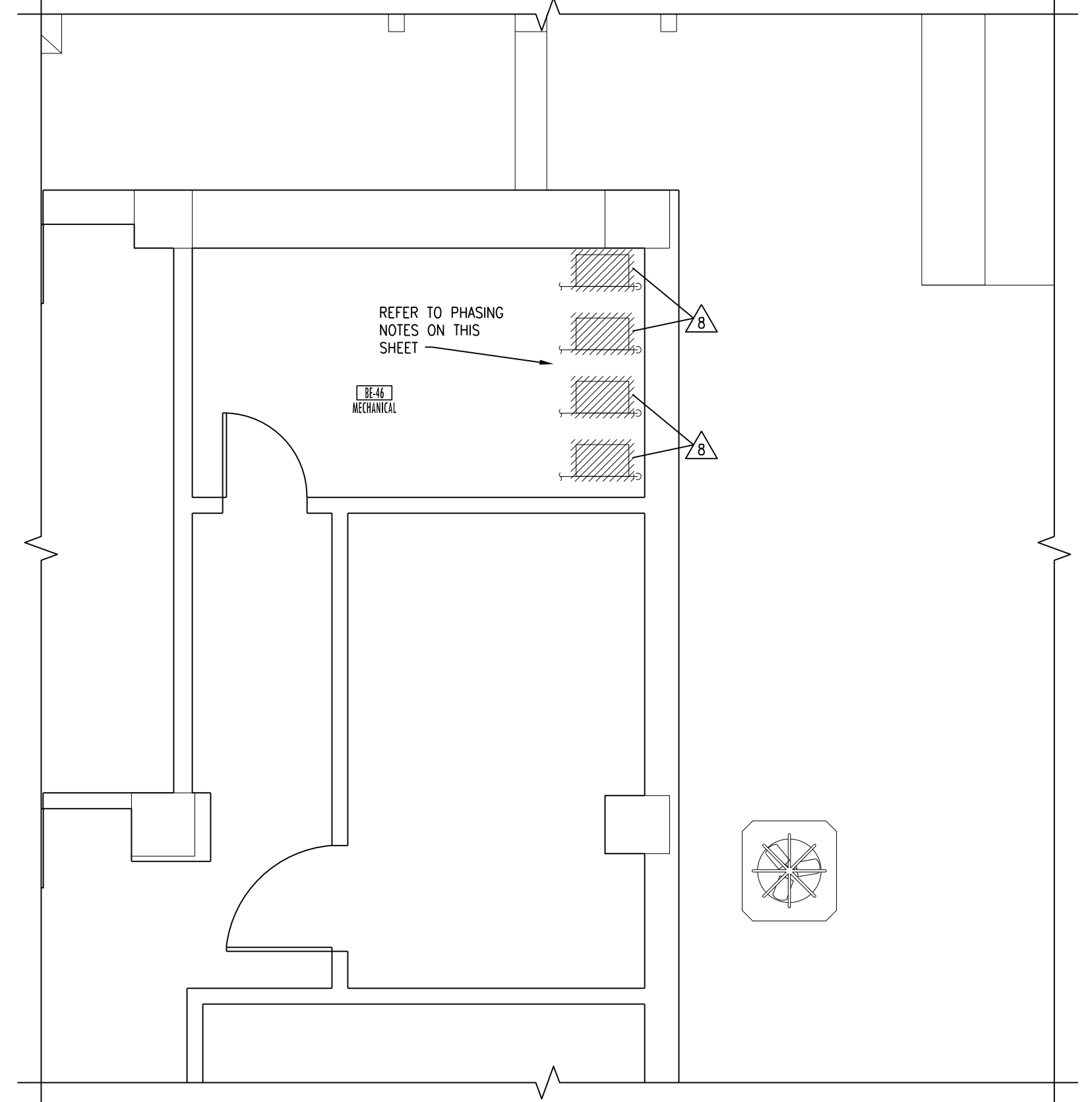
5 EXISTING LAYOUT 3A-01 DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



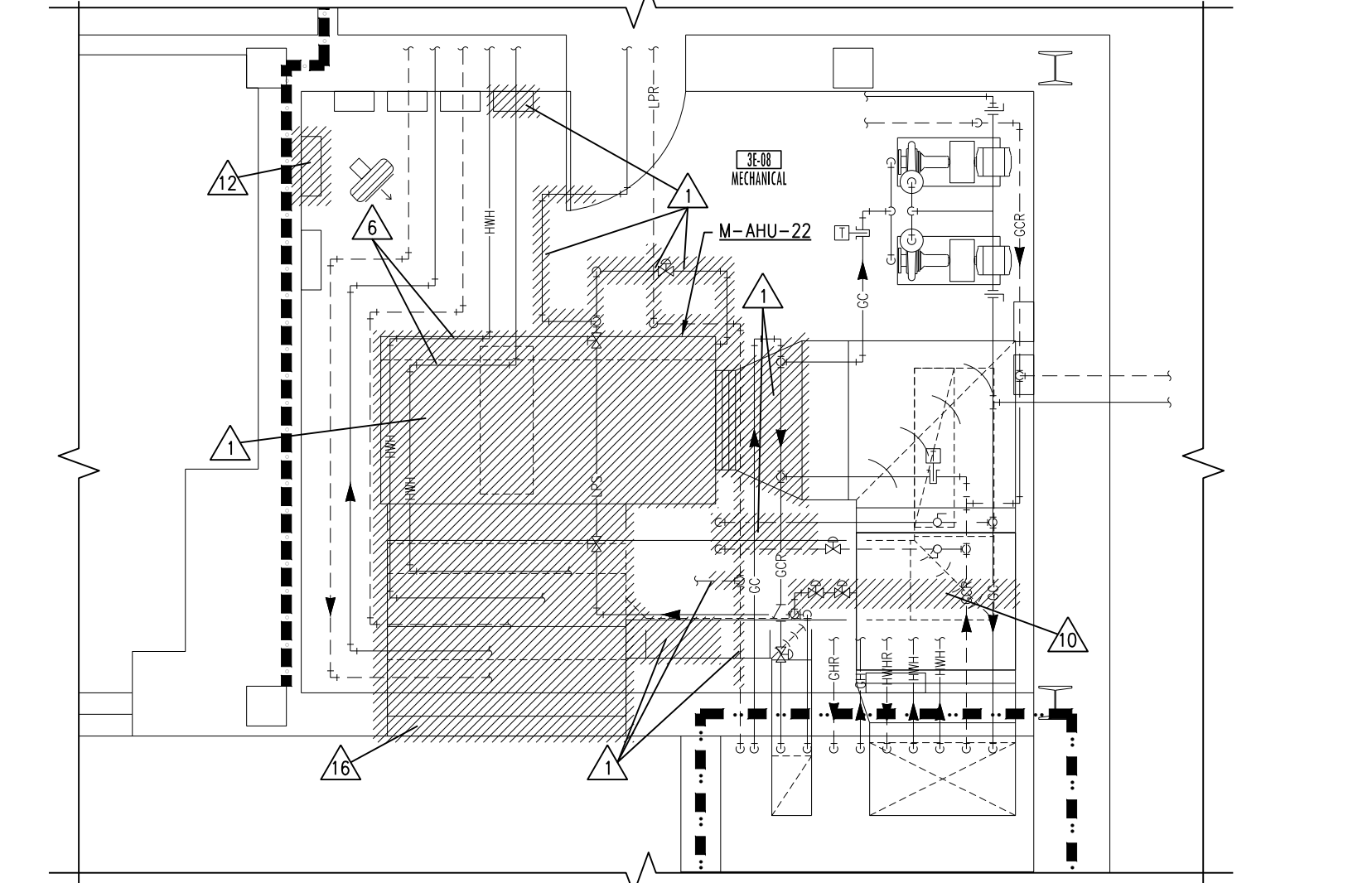
4 EXISTING LAYOUT 2A-01 DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



3 EXISTING LAYOUT 215B DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



2 EXISTING LAYOUT BE-46 DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



1 EXISTING LAYOUT 3E-0B DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

COOLER/FREEZER COMPRESSOR PHASING NOTES:

1. COMPLETE ALL WORK ON EVENING, OVERTIME, OR WEEKEND HOURS IN CAREFUL COORDINATION WITH THE OWNER.
2. COORDINATE SHUTDOWN WITH THE OWNER CAREFULLY AND ONLY WORK ON ONE COMPRESSOR AT A TIME. OUTDOOR UNIT SHALL BE INSTALLED AND OPERATIONAL BEFORE ANY SHUTDOWNS SHALL OCCUR. GIVE A MINIMUM OF 2 WEEKS NOTICE PRIOR TO ANY SHUTDOWN.

AIR HANDLER PHASING NOTES:

1. ALL AIR HANDLER REPLACEMENTS SHALL BE PERFORMED IN APRIL/MAY OR SEPTEMBER/OCTOBER MONTHS IN CAREFUL COORDINATION WITH THE OWNER. PROVIDE A MINIMUM OF 2 WEEKS NOTICE PRIOR TO BEGINNING WORK.
2. FOR TEMPORARY AIR HANDLER OPERATION, PROVIDE A TEMPORARY FAN EQUAL TO THE UNIT AIRFLOW/HORSE POWER, AND HEPA FILTER TO BE MOUNTED TO THE SUPPLY DUCTWORK PRIOR TO REMOVING UNIT. REFER TO FLOOR PLANS FOR SUGGESTED TEMPORARY SUPPLY FAN LOCATION. FAN SHALL RUN CONTINUOUSLY. MAINTAIN THE MECHANICAL ROOM TEMPERATURE AT A MINIMUM OF 55 DEGREES AND MAXIMUM OF 70 DEGREES DURING AHU CHANGE-OUT USING EXISTING HEATING UNITS OR TEMPORARY COOLING/HEATING UNITS. OUTSIDE AIR, RETURN AIR, RELIEF AIR, AND SUPPLY AIR DUCTS SHALL BE LEFT OPEN TO USE THE MECHANICAL ROOM AS A PLENUM.
3. ALL UNIT SHUTDOWN WORK SHALL BE COMPLETED DURING WEEKEND AND EVENING HOURS. REPLACEMENT OF UNIT SHALL BE COMPLETED AS QUICKLY AS POSSIBLE WITH MULTIPLE SHIFTS REQUIRED TO EXPEDITE WORK. ALL CONTROLS WORK THAT CAN BE COMPLETED BEFORE AND SHALL BE COORDINATED. WORK SHALL BE COMPLETED DURING SPRING, FALL, OR WINTER MONTHS.
4. DISASSEMBLE NEW AIR HANDLERS TO THEIR SMALLEST COMPONENTS AS REQUIRED TO FIT THROUGH EXISTING DOORS. TEMPORARILY REMOVE EXISTING MECHANICAL ROOM DOORS AS NECESSARY.

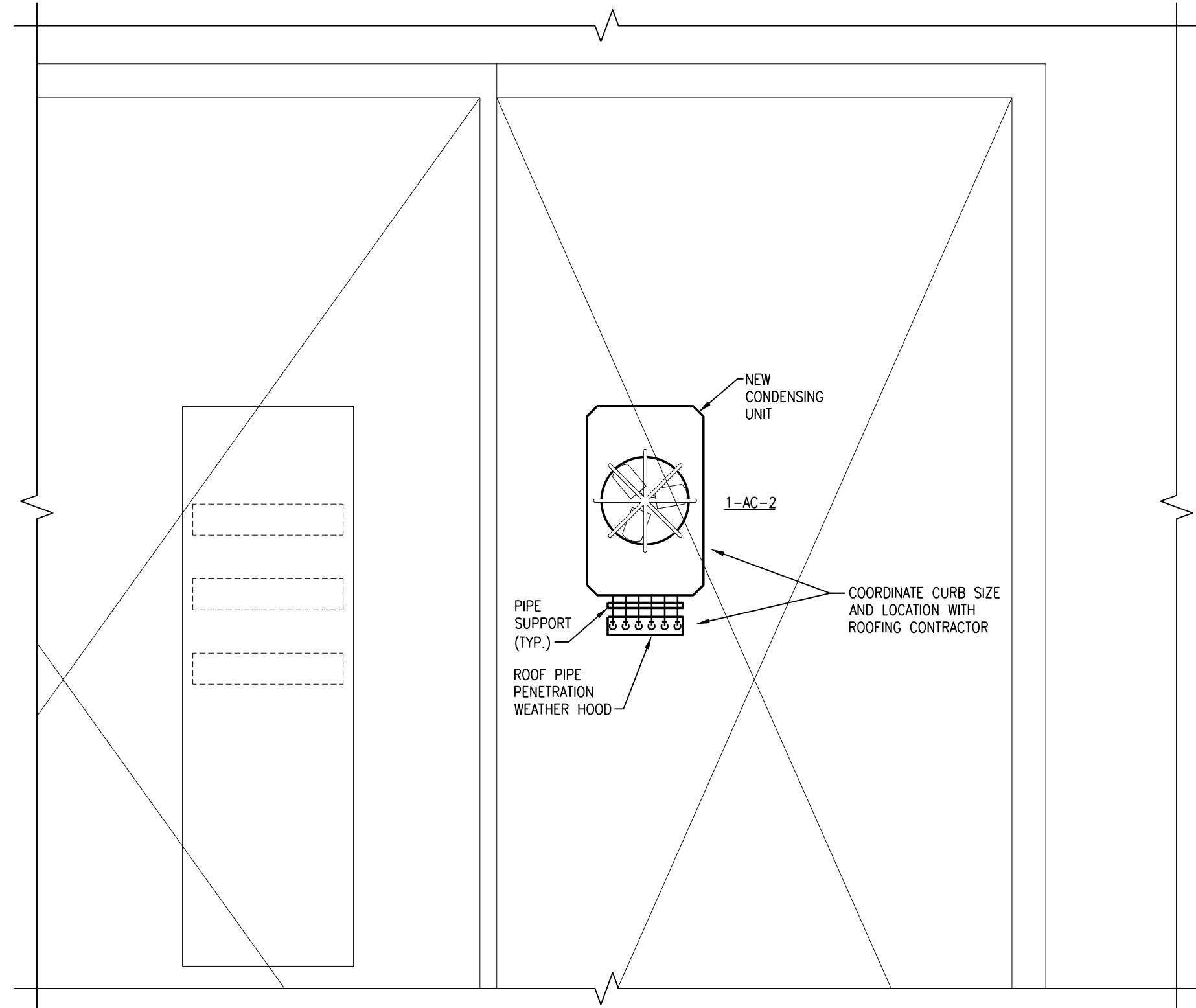
MECHANICAL DEMOLITION NOTES:

- A. DEMOLITION DRAWINGS ARE DIAGNOSTIC ONLY AND ARE BASED ON FIELD OBSERVATION AND EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN THE "AS-BUILT" CONDITIONS AND THESE DRAWINGS. PROVIDE ADDITIONAL DEMOLITION AS REQUIRED BASED ON FIELD CONDITIONS.
- B. THIS CONTRACTOR SHALL OPEN ALL WALLS AND/OR CEILING FOR REMOVAL OF EXISTING HVAC PIPING, DUCTWORK, EQUIPMENT, ETC. AS REQUIRED.
- C. THIS CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL HOLES/WALLS OR CEILING FROM DEMOLISHED HVAC PIPING, DUCTWORK, EQUIPMENT, ETC. IN FLOORS, WALLS, AND CEILING TO MATCH EXISTING.
 - ⚠ DISCONNECT AND REMOVE EXISTING AHU AND ALL ASSOCIATED DUCTWORK, HANGERS, PIPING, CONTROLS, VFD'S, STEEL RAIL, ETC. PREPARE REMAINING DUCTWORK AND PIPING FOR NEW CONNECTION.
 - ⚠ DISCONNECT AND REMOVE EXISTING ERU AND ALL ASSOCIATED DUCTWORK, HANGERS, PIPING, CONTROLS, ETC. PREPARE REMAINING DUCTWORK FOR NEW CONNECTION.
 - ⚠ DISCONNECT AND REMOVE EXISTING DUCTWORK AND ALL ASSOCIATED HANGERS, DAMPERS, ETC. PATCH OPENINGS TO MATCH EXISTING.
 - ⚠ DISCONNECT AND REMOVE EXISTING FAN AND ALL ASSOCIATED DUCTWORK, HANGERS, CONTROLS, VFD'S, ETC.
 - ⚠ DISCONNECT AND REMOVE EXISTING FILTER BOX AND ALL ASSOCIATED DUCTWORK, HANGERS, ETC. PREPARE REMAINING DUCTWORK FOR NEW CONNECTION.
 - ⚠ DISCONNECT AND REMOVE EXISTING HVAC PIPING AND ALL ASSOCIATED HANGERS, VALVES, ETC. PREPARE REMAINING PIPING FOR NEW CONNECTION.
 - ⚠ DISCONNECT AND REMOVE EXISTING DUCTWORK AND ALL ASSOCIATED HANGERS, DAMPERS, ETC. PREPARE REMAINING DUCTWORK FOR NEW CONNECTION.
 - ⚠ DISCONNECT EXISTING REFRIGERANT PIPING AT HEAT EXCHANGER CONNECTIONS IN PREPARATION FOR NEW PIPING TO REMOTE AIR-COOLED CONDENSERS.
 - ⚠ DISCONNECT AND REMOVE EXISTING HVAC PIPING AND ALL ASSOCIATED HANGERS, VALVES, ETC. CAP PIPING BACK AT MAN.
 - ⚠ DISCONNECT AND REMOVE EXISTING HUMIDIFIER AND ALL ASSOCIATED STEAM AND CONDENSING PIPING, VALVES, CONTROLS, ETC. PREPARE REMAINING DUCTWORK FOR NEW CONNECTION.
 - ⚠ DISCONNECT AND REMOVE EXISTING DUCTWORK FOR INSTALLATION OF NEW HUMIDIFIER. PREPARE REMAINING DUCTWORK FOR NEW CONNECTION.
 - ⚠ REMOVE EXISTING PNEUMATIC TEMP. CONTROL PANEL COMPONENTS THAT ARE BEING REPLACED BY NEW DDC PANEL. LEAVE ANY PNEUMATIC COMPONENTS OPERATIONAL THAT ARE NOT BEING REPLACED OR SERVE OTHER UNITS.
 - ⚠ DISCONNECT AND REMOVE EXISTING SPRINKLER HEADS AND ALL ASSOCIATED PIPING, HANGERS, ET. IN AREAS WHERE EXISTING DUCTWORK IS BEING DEMO. PREPARE REMAINING PIPING FOR NEW CONNECTION.
 - ⚠ DISCONNECT AND REMOVE EXISTING MOTORIZED DAMPER IN EXISTING RELIEF AIR DUCT. CUT AND PATCH EXISTING DUCTWORK AND REMOVE AND REPLACE EXISTING HOOD ON ROOF ABOVE AS REQUIRED.
 - ⚠ DISCONNECT AND REMOVE EXISTING FIRE DAMPER IN EXISTING RETURN DUCT AND ALL ASSOCIATED FRAMING/SLEEVES. PATCH, RE-INSULATE, AND REINSTALL EXISTING DUCT AS REQUIRED.
 - ⚠ DISCONNECT AND REMOVE EXISTING LOUVER TEMPORARILY FOR REMOVAL OF EXISTING AIR HANDLER AND DELIVERY OF NEW AIR HANDLER EQUIPMENT. EXISTING MOTORIZED DAMPERS ADJACENT TO LOUVERS SHALL BE REMOVED WITH ALL ASSOCIATED CONTROLS, WIRING, ACTUATORS, ETC.
 - ⚠ DISCONNECT AND REMOVE EXISTING DUCTWORK AND ALL ASSOCIATED HANGERS, SUPPORTS, ETC. DUCTWORK EXTENDS UP TO 5TH FLOOR PERIMETER ROOF. PATCH EXISTING EXTERIOR WALLS AS REQUIRED TO MATCH EXISTING. PREPARE EXISTING ROOF PENETRATION FOR INSTALLATION OF NEW CURB CAP.

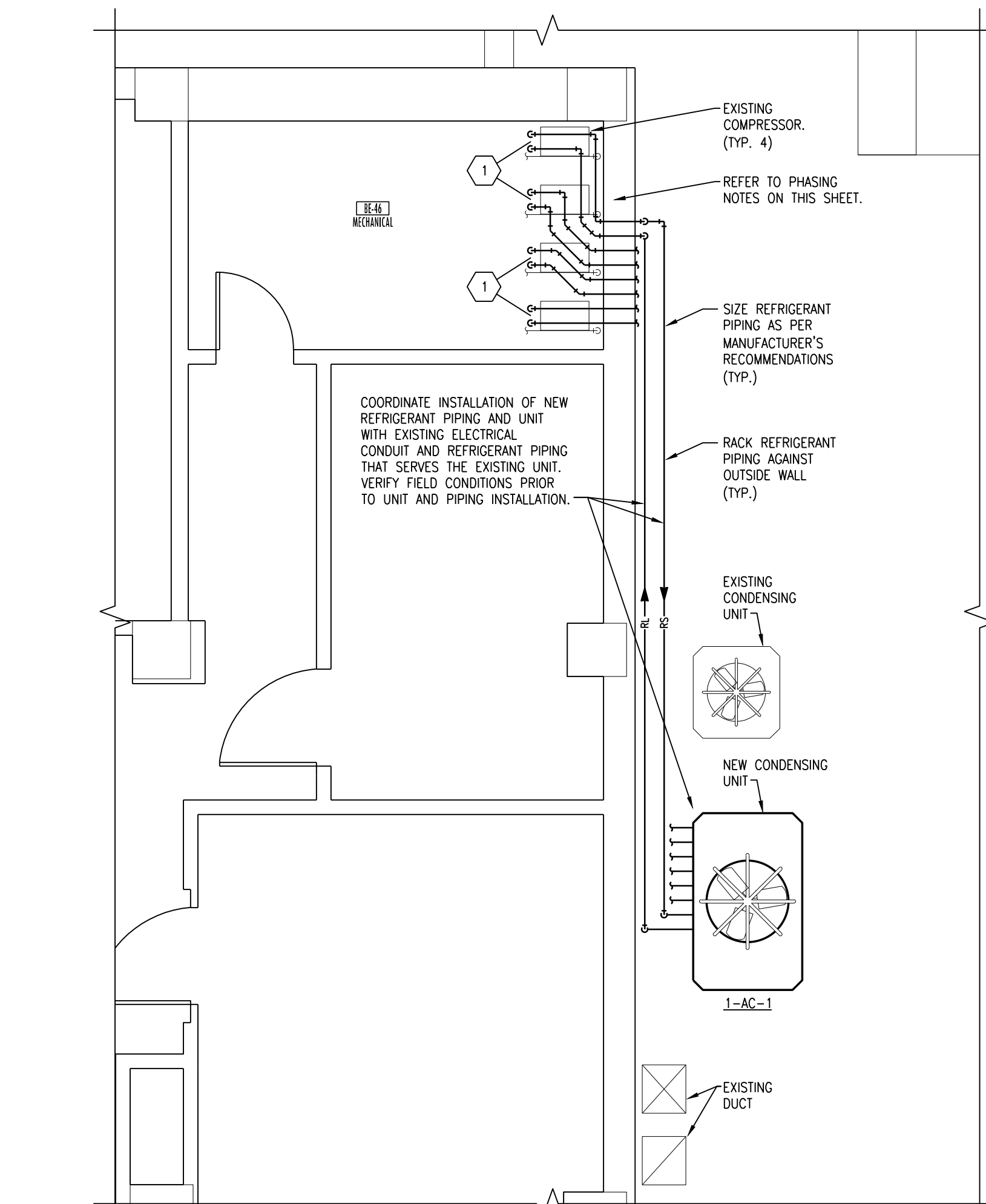


Drawing Title BASEMENT, SECOND FLOOR, AND THIRD FLOOR LARGE SCALE DEMOLITION PLANS		Project Title REPLACE OR UPGRADE HVAC SYSTEM COMPONENTS		Date SEPT. 14, 2016
Project Phase PHASE 2		Scale: AS SHOWN		Drawing No. H2.1
VA Project No. 437-13-111	Contract No. VA263-P-218 VA263-C-	Designed By JP	Checked By JP	
Building No. VAMC CAMPUS	AutoCAD File Name 20222-P121210	Location FARGO VA HEALTH CARE SYSTEM FARGO, NORTH DAKOTA		Dwg. 30 of 66

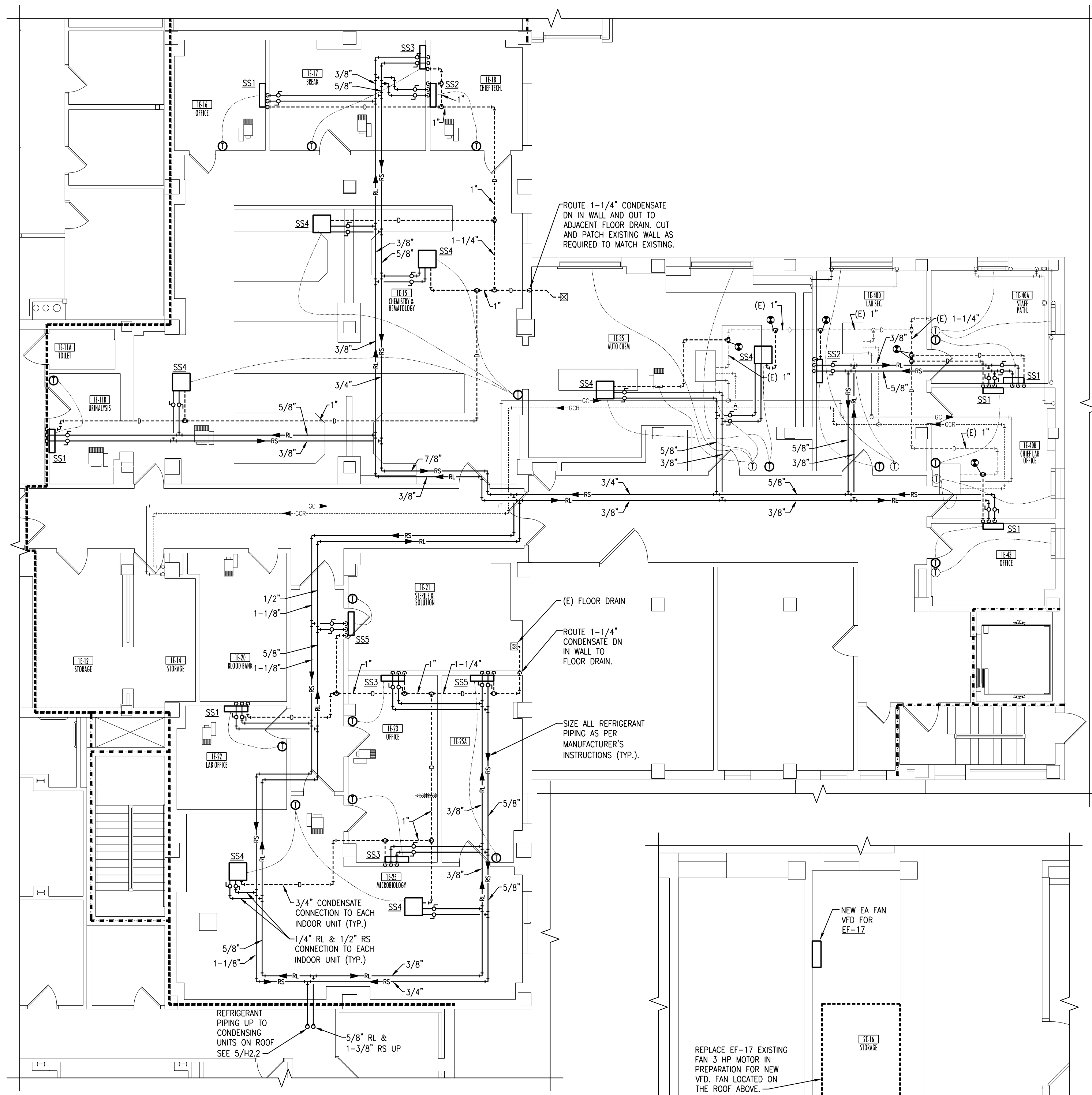
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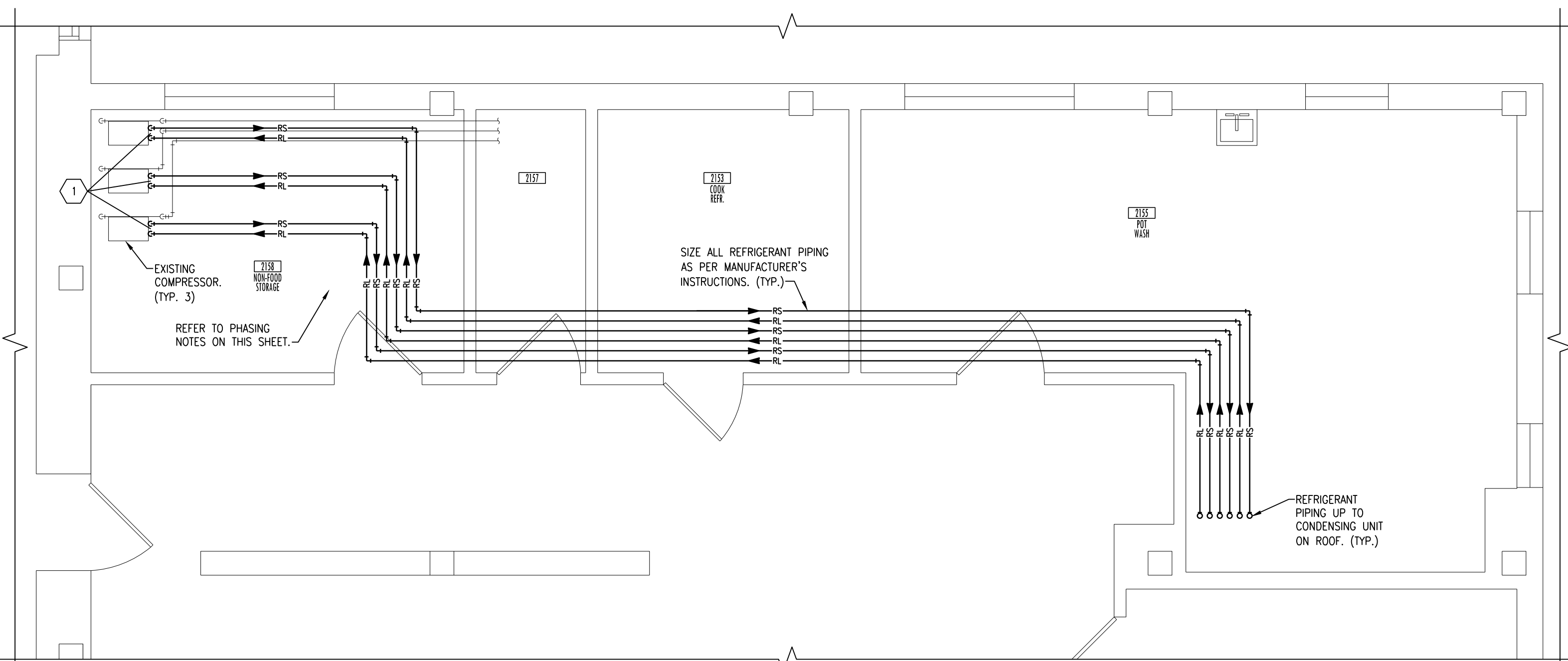
8 EXISTING LAYOUT SECOND FLOOR ROOF REMODELING PLAN
SCALE: 1/4" = 1'-0"



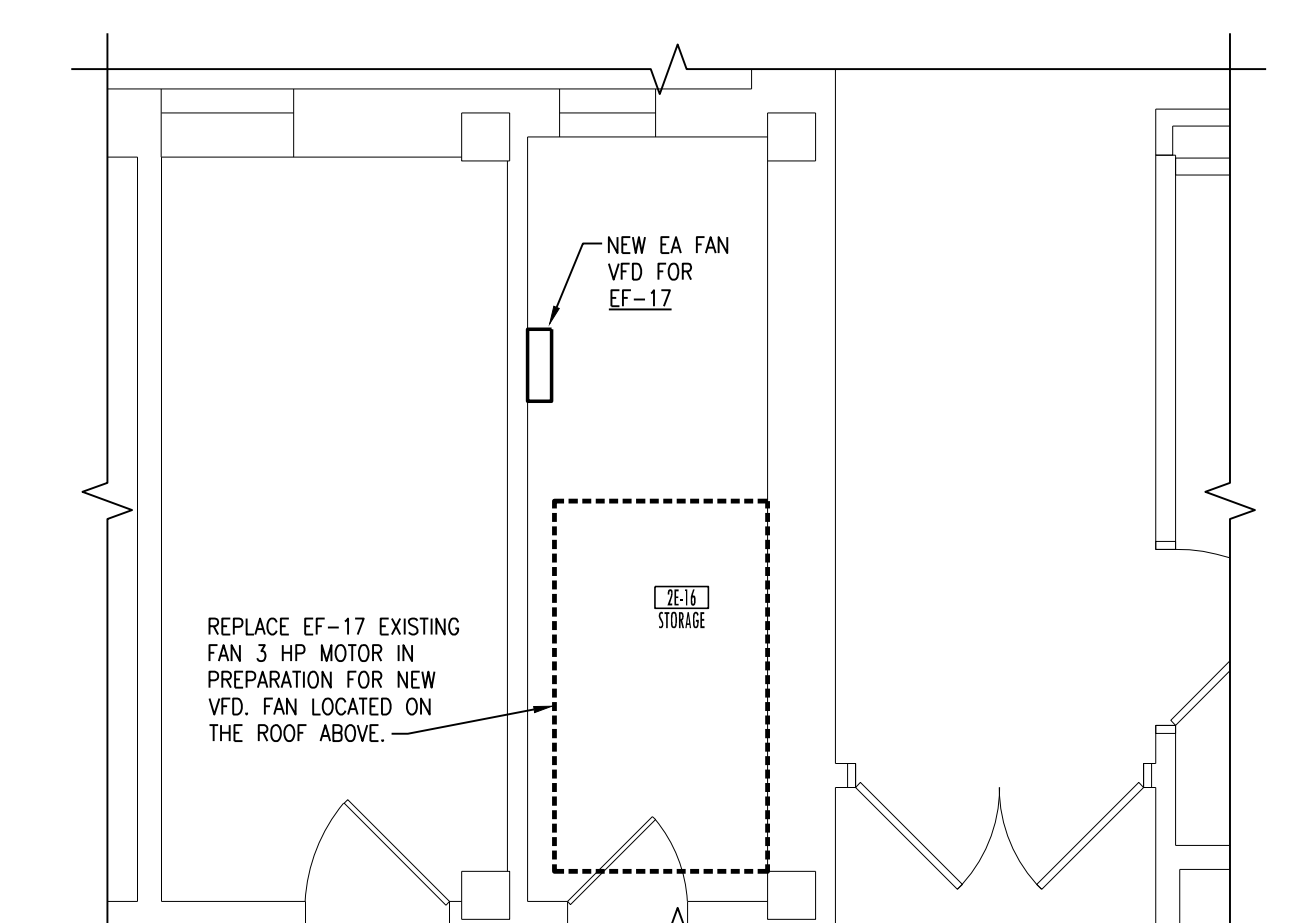
6 EXISTING LAYOUT BE-46 REMODELING PLAN
SCALE: 1/4" = 1'-0"



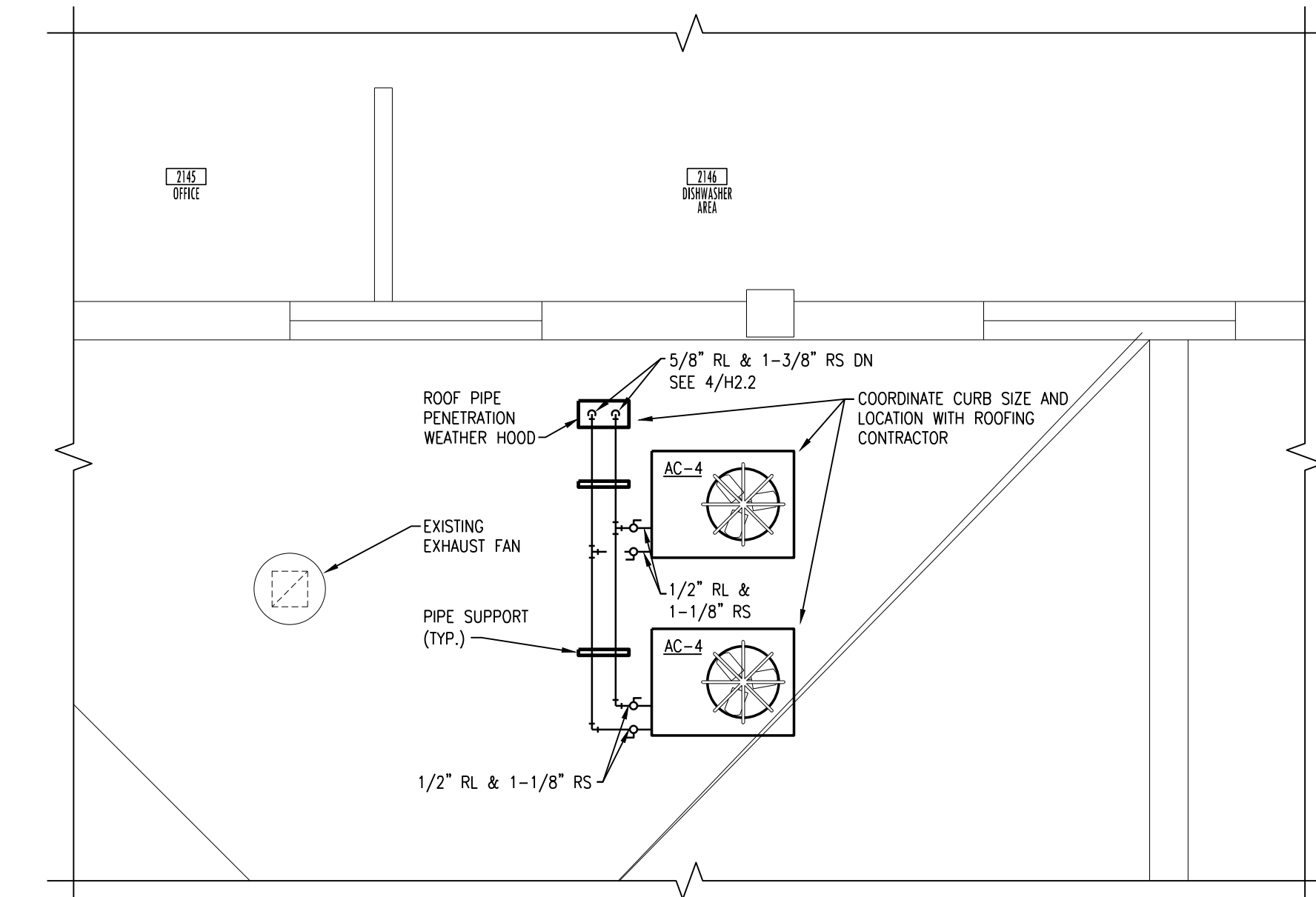
4 EXISTING LAYOUT LAB AREA REMODELING PLAN
SCALE: 1/8" = 1'-0"



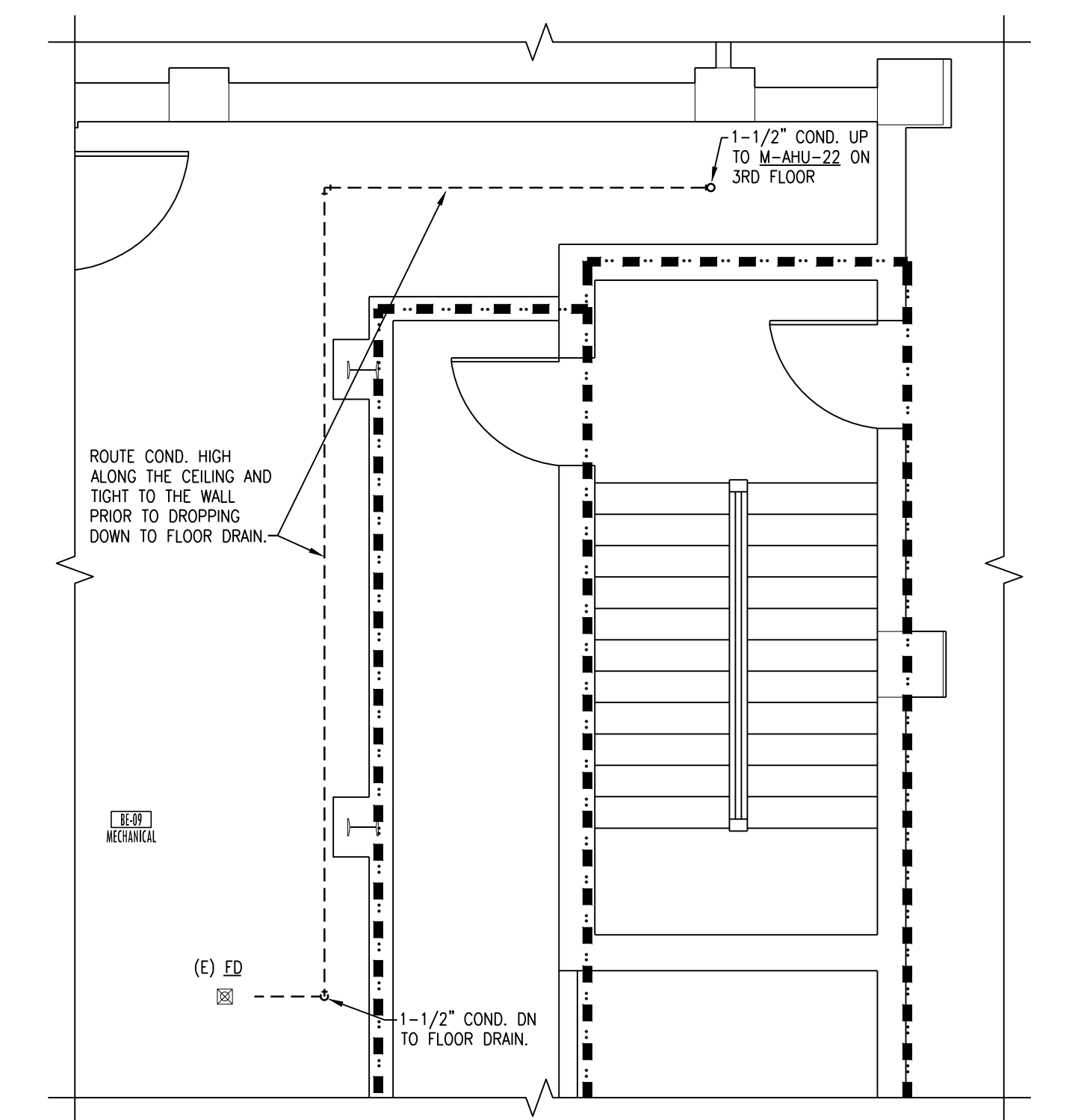
7 EXISTING LAYOUT 2148 & 2149 REMODELING PLAN
SCALE: 1/4" = 1'-0"



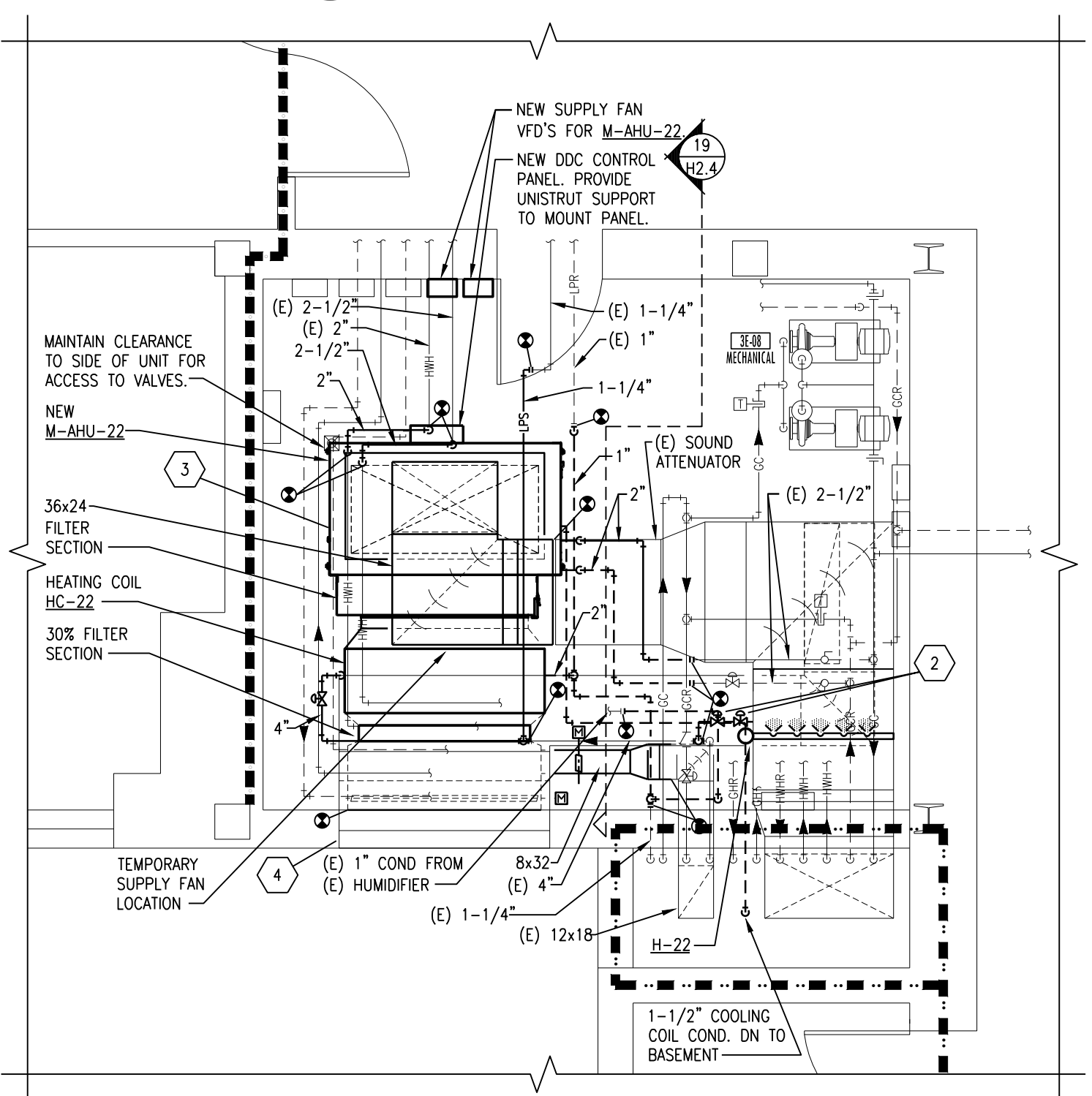
3 EXISTING LAYOUT 2E-16 REMODELING PLAN
SCALE: 1/8" = 1'-0"



5 EXISTING LAYOUT FIRST FLOOR ROOF REMODELING PLAN
SCALE: 1/4" = 1'-0"



2 EXISTING LAYOUT BE-09 REMODELING PLAN
SCALE: 1/4" = 1'-0"



1 EXISTING LAYOUT 3E-08 REMODELING PLAN
SCALE: 1/4" = 1'-0"

LAB PHASING NOTES:

- COMPLETE ALL WORK IN THE LAB DURING EVENING, OVERTIME, OR WEEKEND HOURS IN CAREFUL COORDINATION WITH THE OWNER.
- WORK SHALL BE CONTAINED TO 2 OR 3 ROOMS AT A TIME IN ORDER TO MINIMIZE DISRUPTION TO THE SPACES.
- COORDINATE START OF WORK A MINIMUM OF 2 WEEKS AHEAD OF TIME WITH OWNER.

COOLER/FREEZER COMPRESSOR PHASING NOTES:

- COMPLETE ALL WORK ON EVENING, OVERTIME, OR WEEKEND HOURS IN CAREFUL COORDINATION WITH THE OWNER.
- COORDINATE SHUTDOWN WITH THE OWNER CAREFULLY AND ONLY WORK ON ONE COMPRESSOR AT A TIME. OUTDOOR UNIT SHALL BE INSTALLED AND OPERATIONAL BEFORE ANY SHUTDOWNS SHALL OCCUR. GIVE A MINIMUM OF 2 WEEKS NOTICE PRIOR TO ANY SHUTDOWN.

AIR HANDLER PHASING NOTES:

- ALL AIR HANDLER REPLACEMENTS SHALL BE PERFORMED IN APRIL/MAY OR SEPTEMBER/OCTOBER MONTHS IN CAREFUL COORDINATION WITH THE OWNER. PROVIDE A MINIMUM OF 2 WEEKS NOTICE PRIOR TO BEGINNING WORK.
- FOR TEMPORARY AIR HANDLER OPERATION, PROVIDE A TEMPORARY FAN EQUAL TO THE UNIT AIRFLOW/HORSE POWER, AND HEPA FILTER TO BE MOUNTED TO THE SUPPLY DUCTWORK PRIOR TO REMOVING UNIT. REFER TO FLOOR PLANS FOR SUGGESTED TEMPORARY SUPPLY FAN LOCATION. FAN SHALL RUN CONTINUOUSLY. MAINTAIN THE MECHANICAL ROOM TEMPERATURE AT A MINIMUM OF 55 DEGREES AND MAXIMUM OF 70 DEGREES DURING AHJ CHANGE OUT USING EXISTING HEATING UNITS OR TEMPORARY COOLING/HEATING UNITS. OUTSIDE AIR RETURN AIR, RELIEF AIR, AND SUPPLY AIR DUCTS SHALL BE LEFT OPEN TO USE THE MECHANICAL ROOM AS A PLenum.
- ALL UNIT SHUTDOWN WORK SHALL BE COMPLETED DURING WEEKEND AND EVENING HOURS. REPLACEMENT OF UNIT SHALL BE COMPLETED AS QUICKLY AS POSSIBLE WITH MULTIPLE SHIFTS REQUIRED TO EXPEDITE WORK. ALL CONTROLS WORK THAT CAN BE COMPLETED BEFORE AND SHALL BE COORDINATED. WORK SHALL BE COMPLETED DURING SPRING, FALL, OR WINTER MONTHS.
- DISASSEMBLE NEW AIR HANDLERS TO THEIR SMALLEST COMPONENTS AS REQUIRED TO FIT THROUGH EXISTING DOORS. TEMPORARILY REMOVE EXISTING MECHANICAL ROOM DOORS AS NECESSARY.

MECHANICAL NOTES:

- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN THE "AS-BUILT" CONDITIONS AND THESE DRAWINGS.
- COORDINATE ALL HVAC PIPING AND DUCTWORK INSTALLATION WITH GENERAL PLUMBING, FIRE PROTECTION, AND ELECTRICAL CONTRACTORS. INSTALL ALL HVAC PIPING AND DUCTWORK AS HIGH AS POSSIBLE. PROVIDE ALL NECESSARY OFFSETS (DROPS AND RISES) TO KEEP HVAC PIPING AND DUCTWORK TIGHT TO THE STRUCTURE ABOVE AND INSTALLATION BY ALL TRADES. OFFSET HVAC PIPING AND DUCTWORK TO AVOID BEAMS.
- THIS CONTRACTOR SHALL OPEN ALL EXISTING WALLS AND/OR CEILINGS FOR INSTALLATION OF NEW HVAC PIPING AND VENTILATION DUCTWORK, EQUIPMENT, ETC. AS REQUIRED. PATCH WALLS AND/OR CEILINGS TO MATCH EXISTING.
- MAINTAIN 3'-0" CLEAR SPACE IN FRONT OF ALL ELECTRICAL, CONTROL, AND ACCESS PANELS FOR ACCESSIBILITY.
- ALL SHUT-OFF VALVES, CONTROL VALVES, STRAINERS, DAMPERS, ETC., SHALL BE INSTALLED IN ACCESSIBLE CEILING. VALVES SHALL BE LOCATED NOT MORE THAN 2 FEET ABOVE ACCESSIBLE CEILING.
- PROVIDE 1/2" DRAIN VALVE AT ALL LOW POINTS OF EACH SYSTEM TO ENABLE COMPLETE DRAINAGE. PROVIDE 1/2" VENT VALVES AT ALL HIGH POINTS OF EACH SYSTEM TO ENABLE COMPLETE VENTING.
- ALL OPEN ENDS OF DUCTS SHALL BE CAPPED AT THE END OF CONSTRUCTION EACH DAY.
- ALL NEW PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE TO AVOID TRIPPING HAZARDS IN WALKWAYS BUT AT A HEIGHT TO REMAIN ACCESSIBLE. KEEP ALL EQUIPMENT ACCESS PATHS CLEAR.
- ALL EXISTING DIFFUSERS, GRILLES, AND FLEX DUCTS AFFECTED BY CEILING REMOVAL AND RE-INSTALLATION SHALL BE TEMPORARILY SUPPORTED DURING CONSTRUCTION AND RE-INSTALLED AFTER CEILING WORK IS COMPLETE. ALL SPRINKLER ESCUTCHEONS SHALL BE REMOVED AND REINSTALLED AS REQUIRED FOR CEILING WORK.
- CONNECT NEW REFRIGERANT PIPING TO EXISTING COMPRESSOR IN ORDER TO TIE IN NEW CONDENSING UNITS. SIZE ALL REFRIGERANT PIPING AS PER MANUFACTURER'S RECOMMENDATION. MAINTAIN USE OF EXISTING REFRIGERANT TYPES FOR EACH CIRCUIT. VERIFY EACH TYPE IN EACH CIRCUIT PRIOR TO STARTING WORK.
- REPLACE EXISTING HUMIDIFIER INCLUDING DUCT DISTRIBUTION TUBES, ON/OFF CONTROL VALVE, MODULATING CONTROL VALVE, SEPARATOR, CONDENSATE TEMP SENSOR, STRAINER, VALVES, AND TRAPS. RECONNECT TO EXISTING STEAM AND CONDENSATE PIPING. CUT AND PATCH EXISTING DUCTWORK TO INSTALL NEW DISTRIBUTION TUBES.
- CONTRACTOR SHALL FIELD VERIFY EXISTING MECHANICAL ROOM PRIOR TO SUBMITTING AND ORDERING SCHEDULED EQUIPMENT TO ENSURE THAT THERE IS ENOUGH ROOM FOR INSTALLATION. THE EXISTING MECHANICAL ROOM IS TIGHT AND CAREFUL COORDINATION SHALL BE REQUIRED.
- RE-INSTALL EXISTING LOUVER AFTER INSTALLATION OF AIR HANDLER AND CONNECT TO DUCTWORK INSIDE THE BUILDING. SEAL AROUND LOUVER AIR AND WATER TIGHT.



Drawing Title BASEMENT, FIRST FLOOR, SECOND FLOOR, AND THIRD FLOOR LARGE SCALE REMODELING PLANS		Project Title REPLACE OR UPGRADE HVAC SYSTEM COMPONENTS		Date SEPT. 14, 2016
Project Phase PHASE 2		Designed By JP		Scale AS SHOWN
VA Project No. 437-19-111	Contract No. VA263-P-1218	Checked By JP	Drawn By JF	Drawing No. H2.2
Building No. VAMC CAMPUS	AutoCAD File Name 202279-112212DWG	Location FARGO VA HEALTH CARE SYSTEM FARGO, NORTH DAKOTA	Dwg. 31 of 66	

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