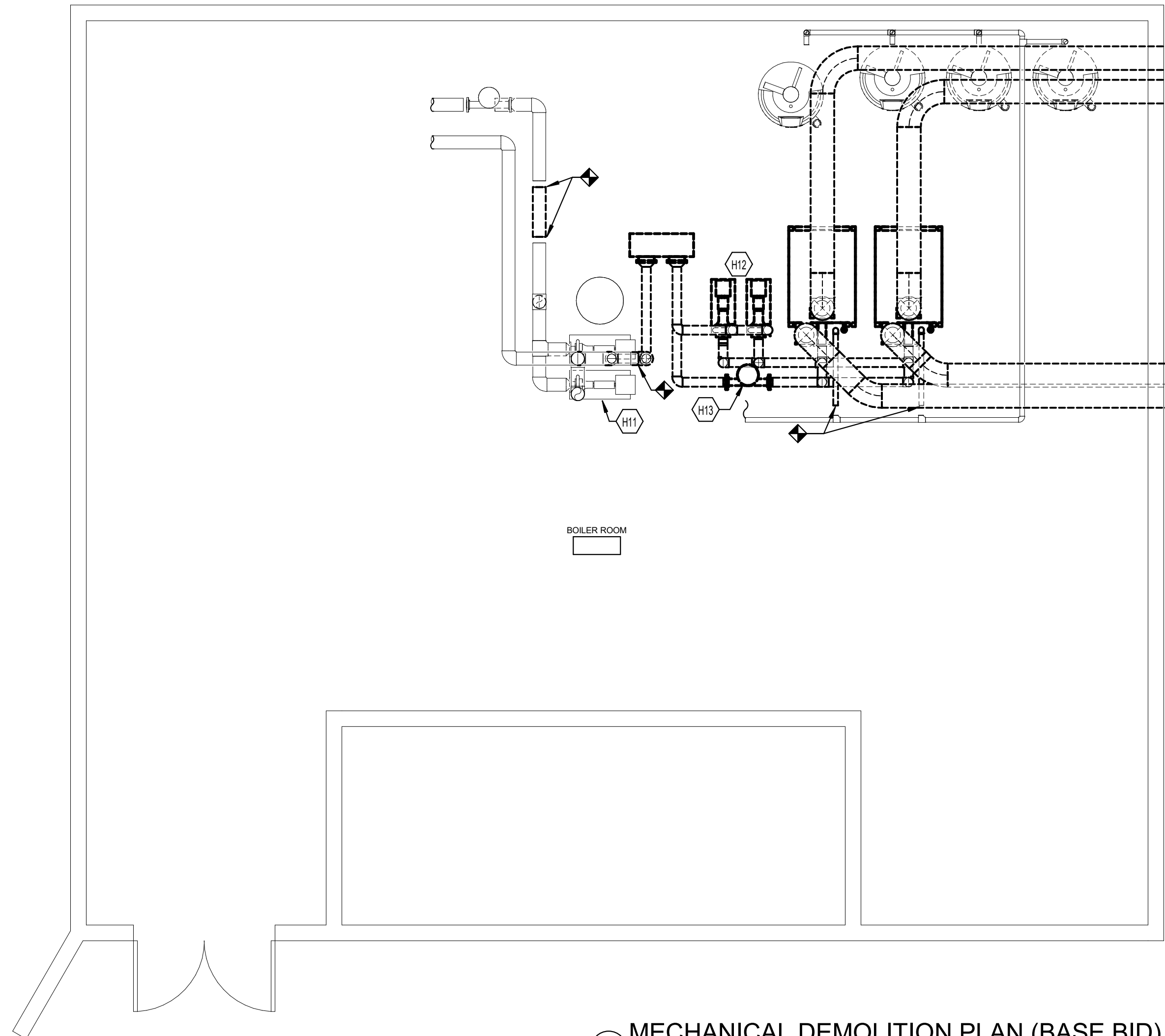


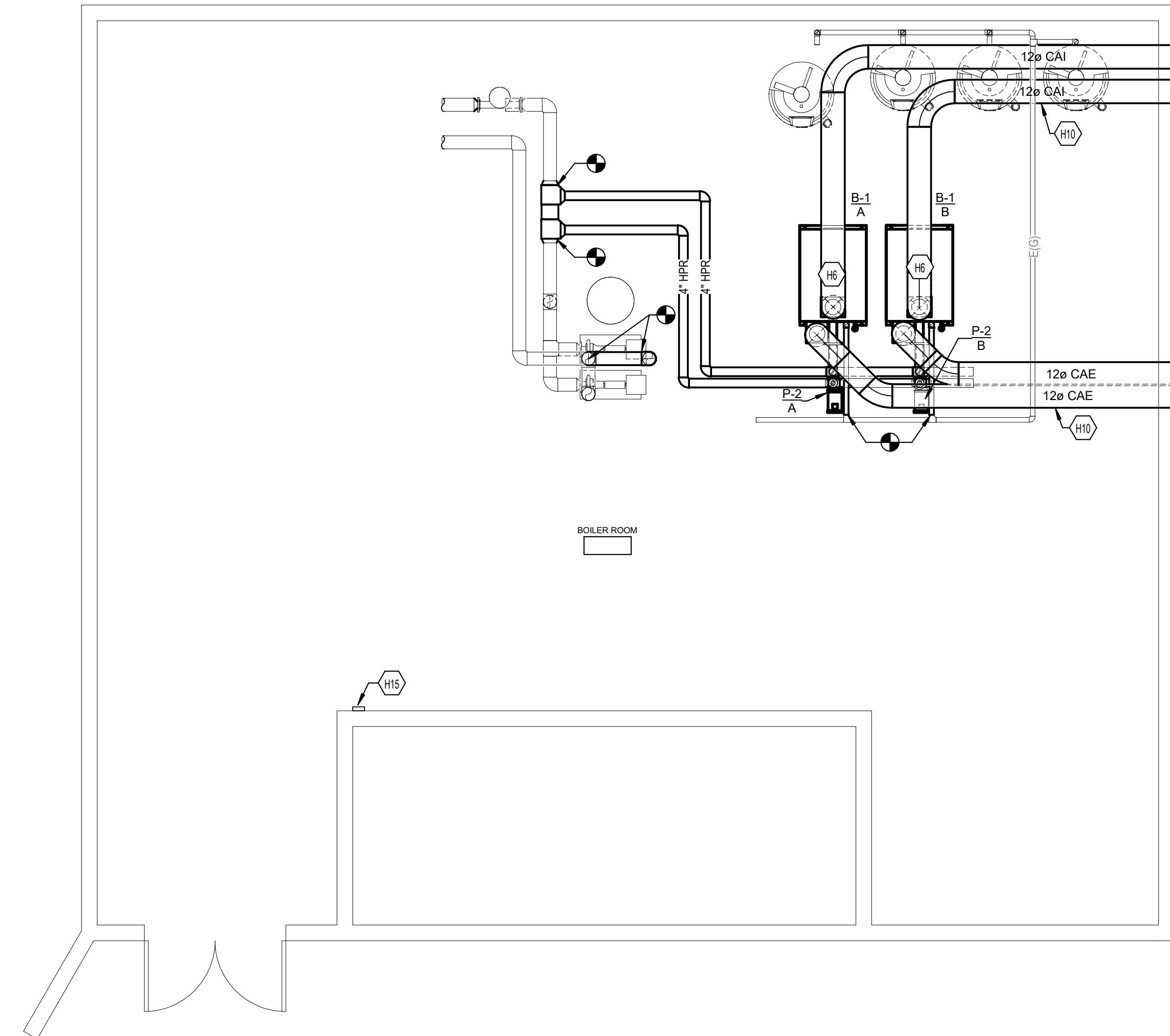
NKU Student Housing Boiler Replacement  
Northern Kentucky University  
30 CAMPBELL DRIVE HIGHLAND HEIGHTS, KENTUCKY 41099  
MECHANICAL PLANS (BASE BID)

TAGGED NOTES

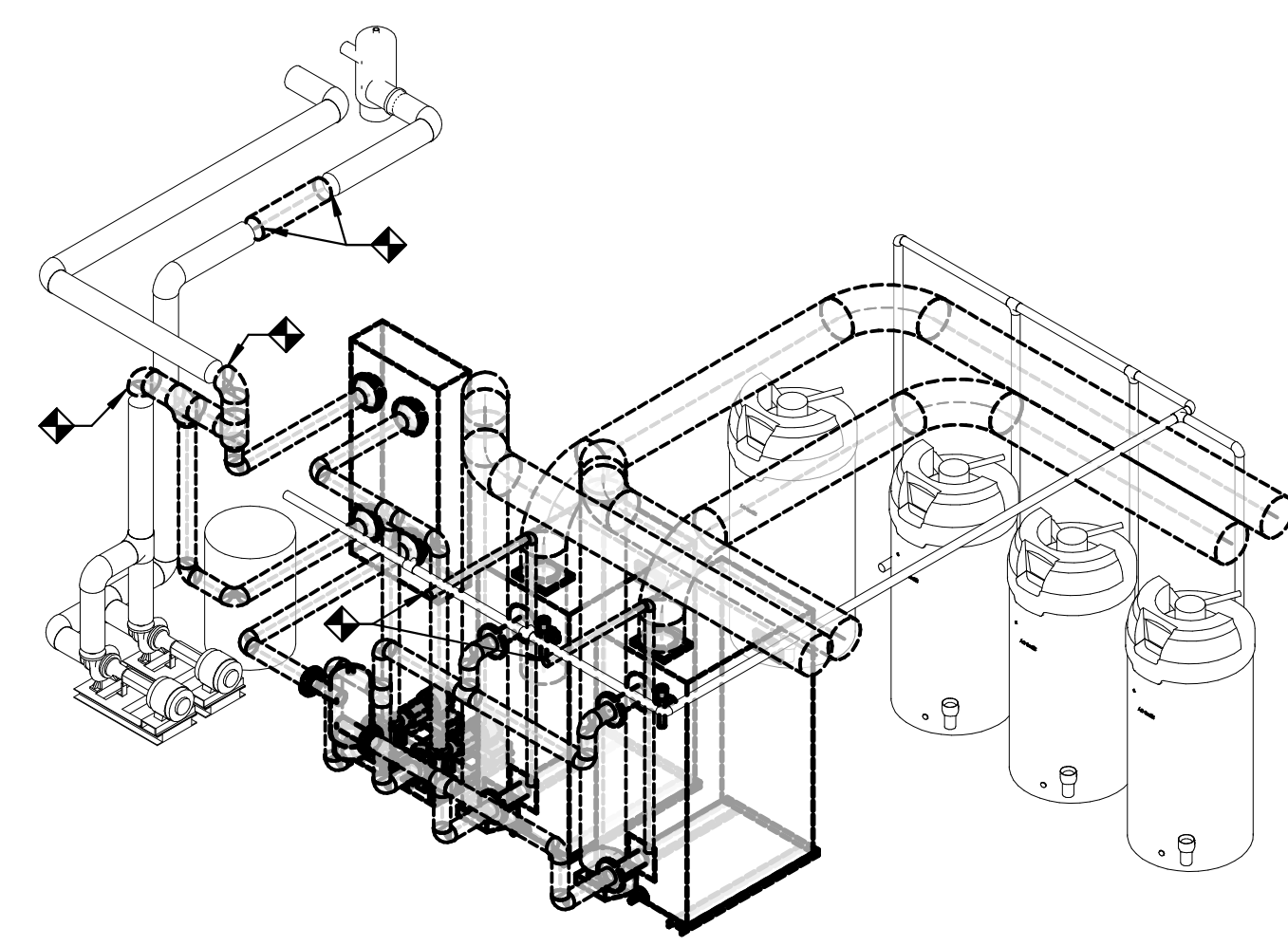
- H8 OWNER PROVIDED BOILERS. INSTALL BOILERS ON EXISTING CONCRETE PAD. RECONNECT TO EXISTING HYDRONIC PIPING, COMBUSTION AIR, AND FLUE.
- H10 ROUTE NEW COMBUSTION AIR IN THE SAME LOCATION AS EXISTING. REUSE EXISTING PENETRATIONS. SEAL PENETRATIONS AIR AND WATER TIGHT AND TERMINATE PER BOILER MANUFACTURERS RECOMMENDATIONS. SIZE BOILER FLUE PER MANUFACTURERS REQUIREMENTS.
- H11 EXISTING BUILDING LOOP PUMPS TO REMAIN IN SERVICE IN BASE BID. DEMOLISH THE EXISTING ASSOCIATED HYDRONIC PIPING TO THE LIMITS SHOWN.
- H12 EXISTING BOILER PUMPS SHALL BE REPLACED IN BASE BID.
- H13 EXISTING AIR SEPARATOR TO BE DEMOLISHED.
- H14 PROVIDE RAIN CAP ON INTAKE.
- H15 PROVIDE AN EMERGENCY BOILER SHUTOFF BUTTON.



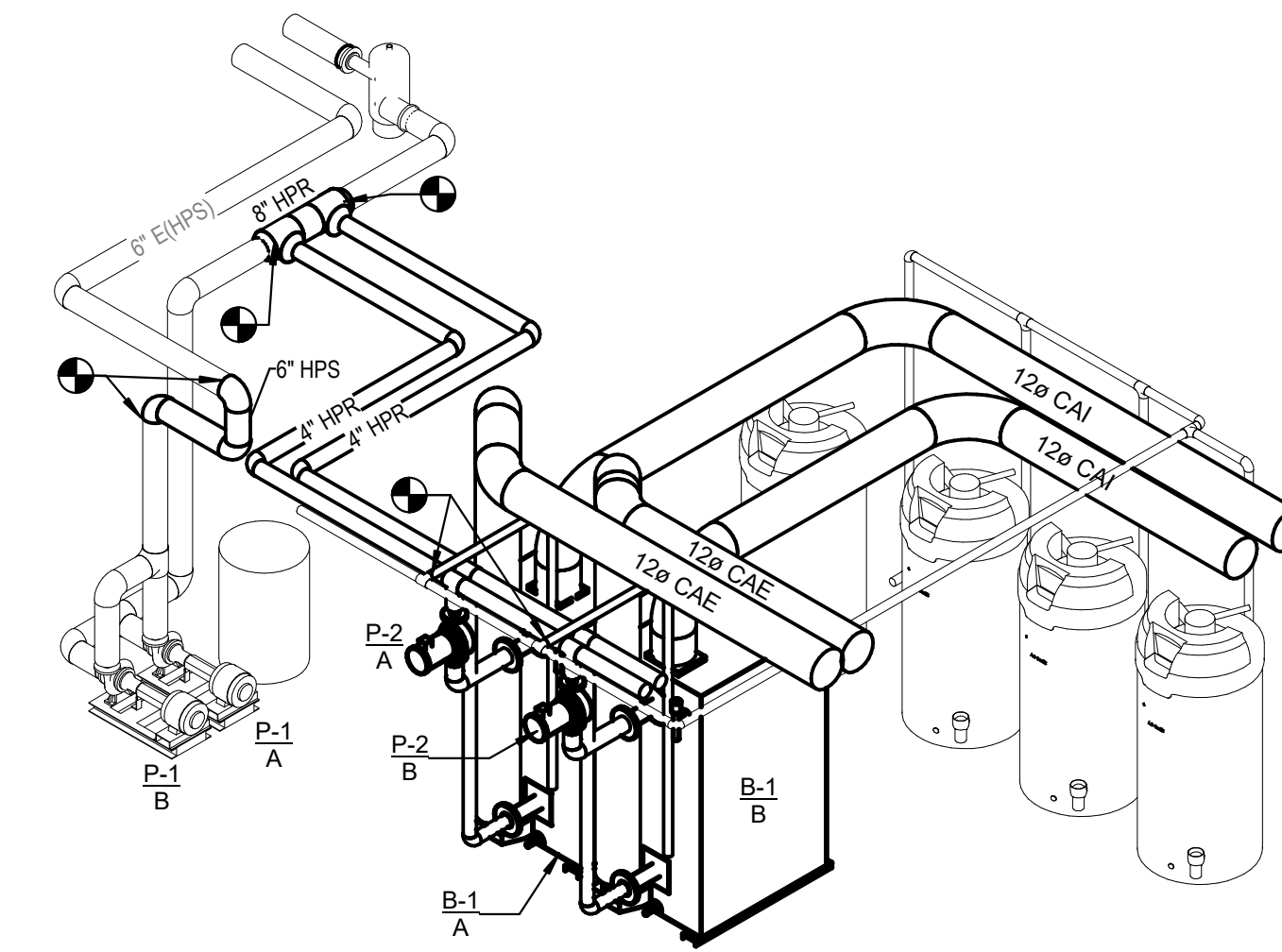
3 MECHANICAL DEMOLITION PLAN (BASE BID)  
SCALE: 1/4" = 1'-0"  
0 1' 2' 4' 8' 12' 16'



4 MECHANICAL NEW WORK PLAN (BASE BID)  
SCALE: 1/4" = 1'-0"  
0 1' 2' 4' 8' 12' 16'



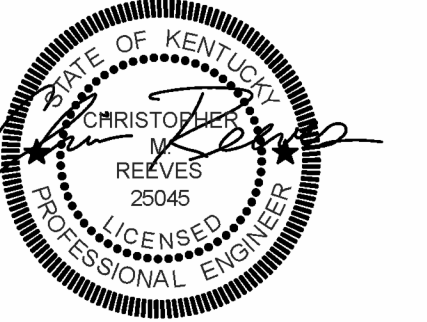
5 MECHANICAL DEMOLITION ISOMETRIC VIEW (BASE BID)  
SCALE: 1/4" = 1'-0"  
0 1' 2' 4' 8' 12' 16'



1 MECHANICAL NEW WORK ISOMETRIC VIEW (BASE BID)  
SCALE: 1/4" = 1'-0"  
0 1' 2' 4' 8' 12' 16'

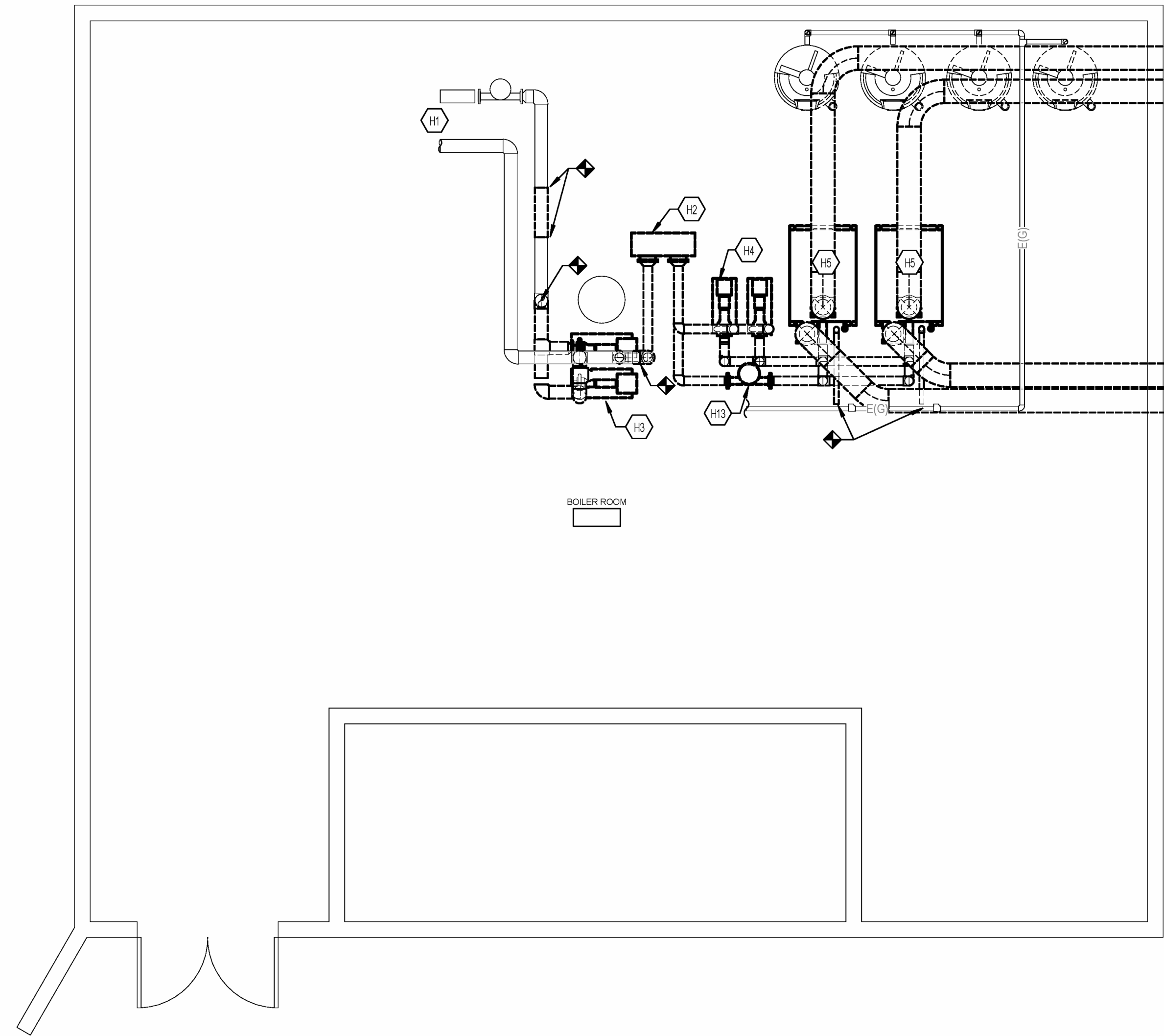
CLIENT/CMTA JOB #:	XNJB23
DATE:	6/30/2023
DRAWN:	BJS
CHECKED:	CMR

REVISIONS

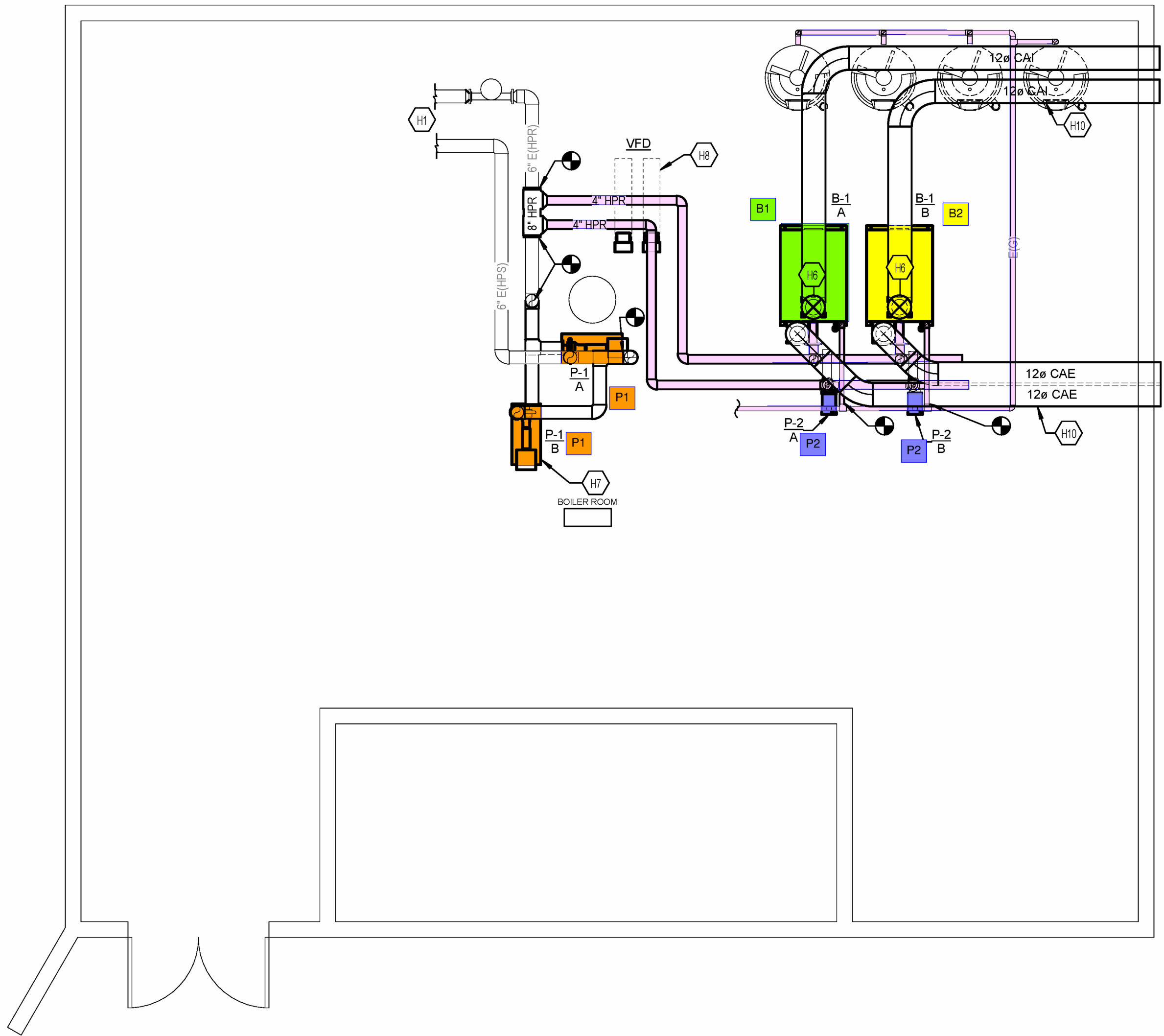



**TAGGED NOTES**

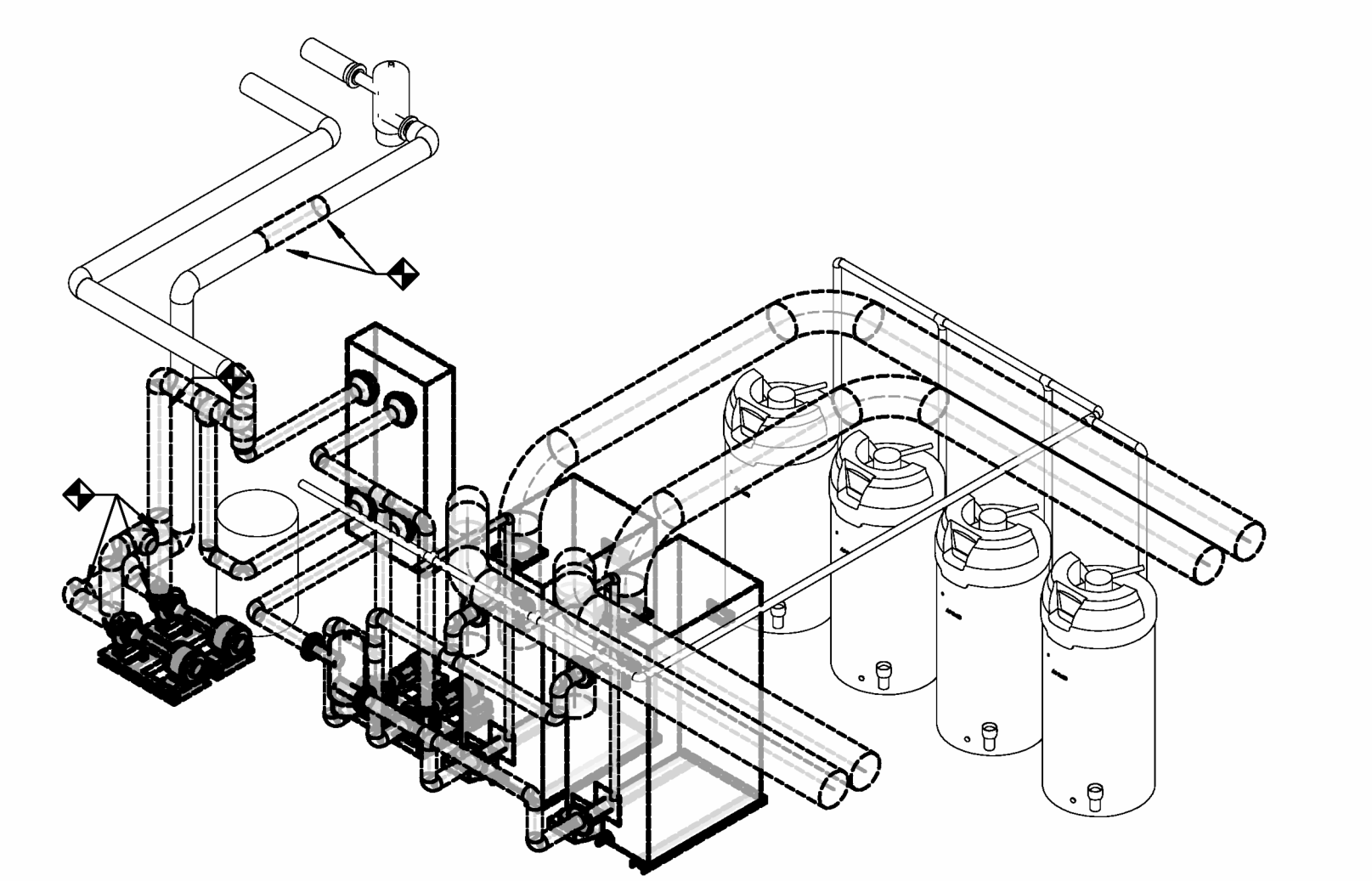
- H1 EXISTING HYDRONIC HEAT PUMP SUPPLY AND RETURN MAINS TO AND FROM THE BUILDING.
- H2 COMPLETELY DEMOLISH EXISTING HEAT EXCHANGER AND ASSOCIATED PIPING AND VALVES TO THE LIMITS SHOWN.
- H3 DEMOLISH EXISTING BUILDING HEAT PUMP LOOP PUMPS TO THE LIMITS SHOWN AND PREPARE FOR CONNECTION OF NEW BUILDING LOOP PUMPS P-1A AND P-1B. REFER TO NEW WORK PLAN LOCATED ON THIS SHEET.
- H4 DEMOLISH EXISTING BOILER PUMPS, ASSOCIATED PIPING, AND AIR SEPARATOR TO THE LIMITS SHOWN. REFER TO NEW WORK PLAN LOCATED ON THIS SHEET.
- H5 DEMOLISH EXISTING BOILERS ASSOCIATED PIPING & DUCTWORK TO THE LIMITS SHOWN AND PREPARE FOR CONNECTION OF NEW BOILERS B-1A AND B-1B. REFER TO NEW WORK PLAN LOCATED ON THIS SHEET.
- H6 OWNER PROVIDED BOILERS. INSTALL BOILERS ON EXISTING CONCRETE PAD. RECONNECT TO EXISTING HYDRONIC PIPING, COMBUSTION AIR, AND FLUE.
- H7 PROVIDE NEW BUILDING LOOP PUMPS P-1A AND P-1B. INSTALL PUMPS ON EXISTING CONCRETE PAD. RECONNECT TO EXISTING HYDRONIC PIPING.
- H8 PROVIDE NEW VARIABLE FREQUENCY DRIVES TIED TO P-1A AND P-1B. INSTALL ON UNISTRUT MOUNTING WHERE THE EXISTING HEAT EXCHANGER WAS LOCATED BEFORE DEMOLITION.
- H10 ROUTE NEW COMBUSTION AIR IN THE SAME LOCATION AS EXISTING. REUSE EXISTING PENETRATIONS, SEAL PENETRATIONS AIR AND WATER TIGHT AND TERMINATE PER BOILER MANUFACTURERS RECOMMENDATIONS. SIZE BOILER FLUE PER MANUFACTURERS REQUIREMENTS.
- H13 EXISTING AIR SEPARATOR TO BE DEMOLISHED.



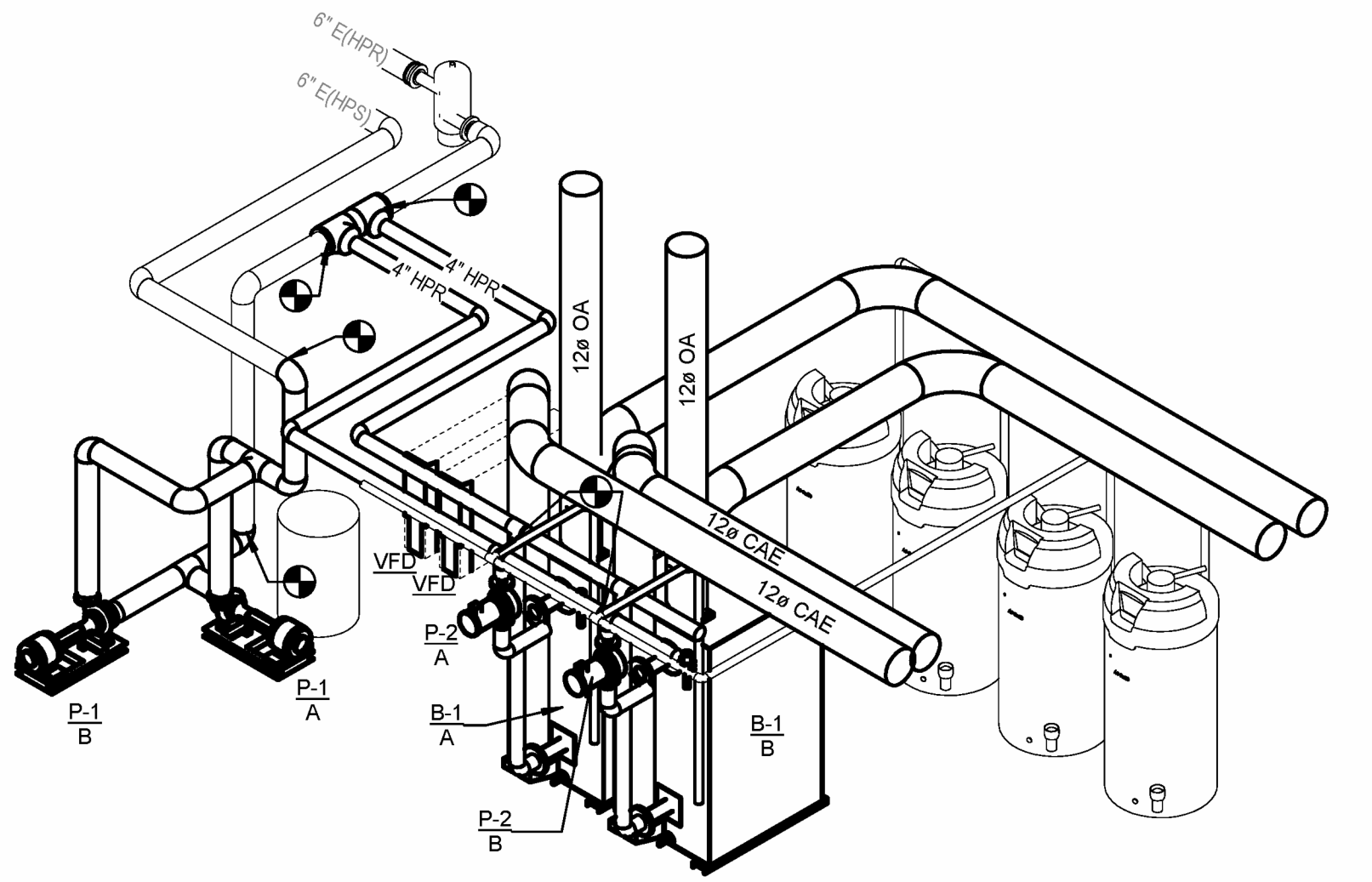
**MECHANICAL DEMOLITION PLAN (ALTERNATE)**  
3  
SCALE: 1/4" = 1'-0"  
0 1' 2' 4' 8' 12' 16'



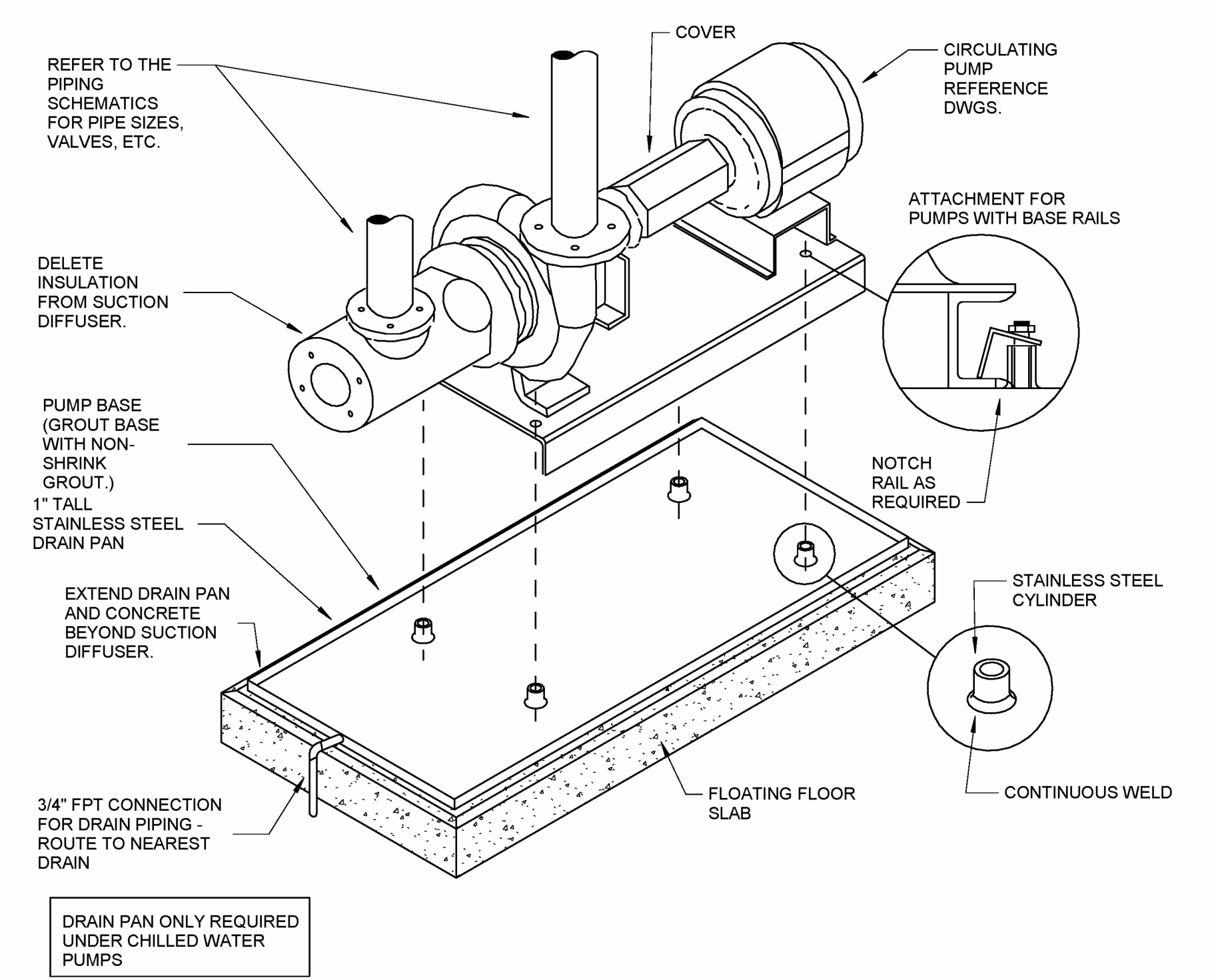
**MECHANICAL NEW WORK PLAN (ALTERNATE)**  
4  
SCALE: 1/4" = 1'-0"  
0 1' 2' 4' 8' 12' 16'



**MECHANICAL DEMOLITION ISOMETRIC VIEW (ALTERNATE 1)**  
1  
SCALE:  
0 1' 2' 4' 8' 12' 16'



**MECHANICAL NEW WORK ISOMETRIC VIEW (ALTERNATE 1)**  
2  
SCALE:  
0 1' 2' 4' 8' 12' 16'



**BASE MOUNTED PUMP AND DRAIN PAN DETAIL**  
5  
SCALE: NONE

NKU Student Housing Boiler Replacement  
 Northern Kentucky University  
 30 CAMPBELL DRIVE HIGHLAND HEIGHTS, KENTUCKY 41099  
**MECHANICAL PLANS (ALTERNATE 1)**

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