SHEET NOTES CONTINUED:

42 PROVIDE NEW 36"x48"x12" DEEP PLENUM BEHIND EXISTING LOUVERS AT DOOR.

43 TERMINATE 56"x24" C.A. DUCT WITHIN 12" OF CEILING AT BOILER.

44 PROVIDE REFRIGERANT MONITORING PANEL. INTERLOCK WITH BOILER TO SHUT DOWN BOILER IF A LEAK IS DETECTED. INTERLOCK WITH NEW FAN EF-1 ON ROOF TO EXHAUST ROOM IF LEAK IS DETECTED.

45 PROVIDE REFRIGERANT MONITORING SENSORS (4 TOTAL).

46 CONNECT TO EXISTING GAS LINE IN THIS APPROXIMATE LOCATION.

47 NEW AIR ELIMINATOR SEE DETAIL B1/ME501.

48 RELOCATE PRV STATION, BACK FLOW PREVENTER, DRAIN LINE, AND PIPING AS NEED FOR THE INSTALLATION OF NEW BOILER AND PUT BACK IN PLACE IN SAME LOCATION. FIELD VERIFY.

49 REMOVE EXISTING MAKE-UP TO THIS APPROXIMATE LOCATION.

50 PROVIDE NEW MAKE-UP FROM POINT SHOWN TO NEW LOCATION SHOWN. FIELD VERIFY.

51 CUT EXISTING CONCRETE PAD TO WITHIN 4" OF NEW AHU'S.

52 EXTEND EXISTING AHU-2 CONCRETE PAD TO COVER NEW AHU-2. PROTECT RETURN AIR FLOOR OPENING WHEN POURING NEW EXTENSION CONCRETE PAD.

53 FILL VOID BETWEEN EXISTING AHU-1 AND EXISTING RAF-1 CONCRETE PAD.

54 NEW 14x14 REFRIGERANT EXHAUST DUCT. TERMINATE WITHIN 12" AFF. ROUTE TO EF-1 ON ROOF IN EXISTING CHASE IN THIS APPROXIMATE LOCATION. FIELD VERIFY. COORDINATE WITH G.C. TO PROVIDE ACCESS TO CHASE AS NECESSARY.

SHEET NOTES CONTINUED:

30 RETURN AIR SHALL BE IN THE BACK AND NOT IN THE TOP OF THE NEW UNIT.

31 RETURN AIR FOR AHU-2 COMES FROM A CONCRETE R.A. BOX UNDER THE FLOOR. TRANSITION FROM BOX TO BOTTOM INLET OF RETURN AIR SECTION. FIELD VERIFY FLOOR OPENING. RECORD DRAWINGS SIZE THE OPENING AT 68" x 114".

32 TRANSITION FROM EXISTING S.A. DUCT TO S.A. OPENING IN NEW AIR HANDLING UNITS.

33 NEW CHEMICAL POT FEEDER. STRAP TO WALL. SEE DETAIL A3/ME501.

34 NEW FLOOR MOUNTED EXPANSION TANK. SEE DETAIL B3/ME501.

35 NEW BOILER BREECHING. CONNECT TO EXISTING 27" DIA. STACK.

36 NEW 3-WAY MIXING VALVE CONTROLLED BY S.A. TEMPERATURE SENSOR ACCORDING TO OUTSIDE AIR TEMPERATURE SCHEDULE.

37 PROVIDE NEW CONCRETE PAD UNDER BOILER. PROVIDE NEW CONCRETE PAD FROM EXISTING AHU-3 TO WALL.

38 EXISTING HIGH PRESSURE DUCT SHALL REMAIN.

39 PROVIDE GAS TRAIN. SEE DETAIL A4/ME501.

40 TIE INTO EXISTING HWS AND HWR AT THIS APPROXIMATE LOCATION. FIELD VERIFY.

41 REPLACE EXISTING WINDOW WITH NEW LOUVERS. FIELD VERIFY EXACT SIZE AND MOUNTING. PROVIDE 12" DEEP PLENUM BEHIND NEW LOUVER.

SHEET NOTES CONTINUED:

22 EXISTING FRESH AIR DUCT SHALL REMAIN.

23 PROVIDE NEW COMBUSTION AIR LOUVER AND DAMPER FOR BOILER BURNER. INTERLOCK THE DAMPER OPERATOR TO THE BURNER CONTROLS SO THE DAMPER WILL CLOSE WHEN THE BURNER IS OFF AND OPEN WHEN THE BURNER IS ON. THE LINKAGE OF THE DAMPER SHALL ALSO BE AUTOMATICALLY MONITORED SO IF DAMPER MOTOR IS OPERATING BUT THE LINKAGE IN NOT MOVING THE DAMPER AN ALARM WILL SOUND THROUGH THE BMS AND LOCAL. REMOVE WINDOW AND REPLACE WITH LOUVER.

24 CONNECT AND PROVIDE NEW 4" HWS AND HWR PIPING FROM THIS LOCATION TO HW COIL CONNECTION IN AIR HANDLING UNITS AHU-1 AND AHU-2.

25 CONNECT AND PROVIDE NEW 4" CHWS AND CHWR PIPING FROM THIS LOCATION TO CHW COIL CONNECTION IN AIR HANDLING UNITS AHU-1 AND AHU-2.

26 EXISTING CHILLED WATER PIPING FROM THIS POINT TO CHILLER SHALL REMAIN. CAP PIPING AT MAINS WHERE BRANCHES WERE PROVIDED FOR SERVICES TO OLD REMOVED COILS.

27 PATCH EXISTING FRESH-AIR MAIN DUCT CONNECTION FROM EXISTING AHU-1. PROVIDE NEW 40" WIDE x 34" LONG OPENING IN EXISTING FA DUCT AND EXTEND DOWN AND TRANSITION TO A 40" WIDE x 34" LONG CONNECTION IN AHU-1.

28 PATCH EXISTING FRESH AIR MAIN DUCT CONNECTION FROM EXISTING AHU-2. PROVIDE NEW 30" x 106" FA DUCT CONNECTION IN MAIN DUCT AND EXTEND DOWN TO 106" x 30" FA CONNECTION IN AHU-2.

29 TRANSITION FROM THIS POINT TO FA OPENING/CONNECTION IN NEW AIR HANDLING UNIT AHU-1 AND AHU-2.

SHEET NOTES CONTINUED:

9 EXISTING ROLE UP DOOR.

10 EXISTING MAN DOOR.

11 EXISTING 2" 5PSI GAS PIPING.

12 PROVIDE PIPE CAPS WHERE CHILLED WATER PIPING SUPPLY AND RETURN TAKE-OFFS WERE PROVIDED TO SERVE AHU-3.

13 PROVIDE NEW REFRIGERANT DETECTION SYSTEM INCLUDING CONTROL CENTER, SENSORS, SENSOR LEADS, ELECTRICAL ETC. AS REQUIRED BY THE MANUFACTURER. SEE ISOMETRIC. INSTALL PER MANUFACTURERS INSTRUCTIONS.

14 EXISTING HWS AND HWR PIPING SHALL REMAIN.

15 NEW HWS AND HWR PIPING ETC.

16 CONNECT TO EXISTING SUPPLY AIR DUCT IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION.

17 CONNECT TO EXISTING RETURN AIR DUCT IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION.

18 EXISTING CONTROL PANELS SHALL REMAIN AND BE MODIFIED. SEE CONTROL SPECIFICATIONS.

19 PROVIDE NEW VF DRIVES FOR THE HOT WATER PUMPS. SEE ELECTRICAL DRAWINGS.

20 EXISTING SUPPLY AIR DUCT SHALL REMAIN.

21 EXISTING RETURN AIR DUCT WORK SHALL REMAIN.

SHEET NOTES:

1 PROVIDE NEW AHU-1 IN SECTIONS SO UNIT WILL BE ABLE TO FIT THRU ROLL UP DOOR AND BE REASSEMBLED INSIDE MECHANICAL EQUIPMENT ROOM. SEE SCHEDULE FOR CAPACITIES AND MAXIMUM LENGTHS, WIDTHS, AND HEIGHTS.

2 PROVIDE NEW AHU-2 IN SECTIONS SO UNIT WILL BE ABLE TO FIT THRU ROLL UP DOOR AND BE REASSEMBLED INSIDE MECHANICAL EQUIPMENT ROOM. SEE SCHEDULE FOR CAPACITIES AND MAXIMUM LENGTHS, WIDTHS, AND HEIGHTS.

3 PROVIDE NEW KNOCK DOWN HOT WATER BOILER IN ORDER FOR BOILER SECTIONS TO HAVE ACCESS INTO THE BUILDING AND BE REASSEMBLED WITHIN THE MECHANICAL EQUIPMENT ROOM.

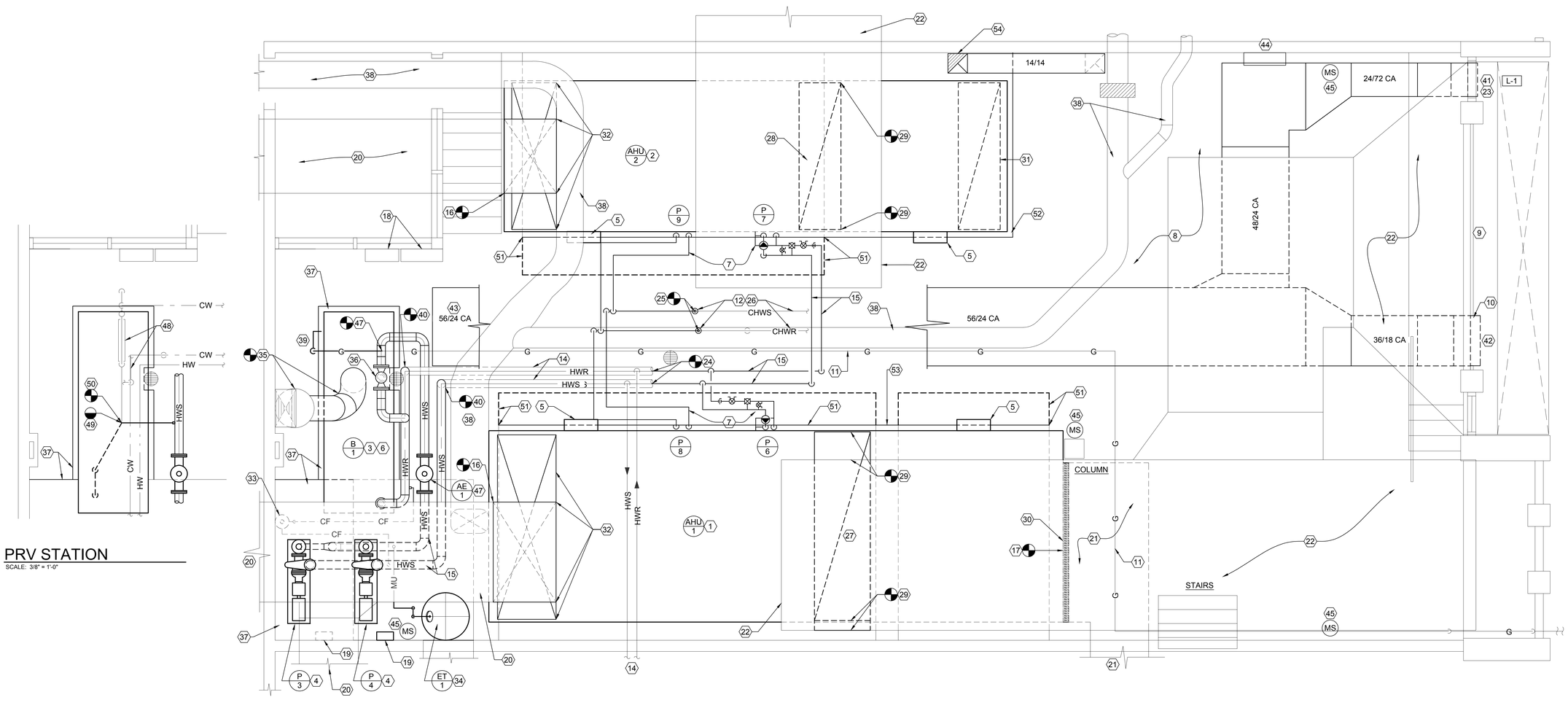
4 PROVIDE TWO NEW BASE MOUNTED END SUCTION HOT WATER PUMPS. LOCATE AS SHOWN.

5 PROVIDE NEW VF DRIVES FOR THE SUPPLY AND RETURN AIR FANS FOR AHU-1 AND AHU-2. SEE ELECTRICAL DRAWINGS.

6 SEE BOILER PIPING FLOW SHEET ME701.

7 SEE NEW COIL PIPING DETAILS D5/ME502.

8 CONTRACTOR MAY HAVE TO REMOVE SOME CHILLER PIPING TO ACCESS EQUIPMENT. CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURERS BEFORE BID TO VERIFY THAT SPECIFIED EQUIPMENT MAY BE BROKEN DOWN TO FIT IN THRU THE ROLL UP DOOR AND OVER OR AROUND CHILLER EQUIPMENT AND PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING AND REFILLING PIPING SYSTEMS AND REPLACING THE PIPING THAT WILL BE REMOVED OR ALTERED AFTER NEW EQUIPMENT IS PAST THIS AREA.



PRV STATION
SCALE: 3/8" = 1'-0"

LARGE SCALE BOILER PLAN
SCALE: 3/8" = 1'-0"

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MARK	DATE	DESCRIPTION

DATE:	10 AUGUST 2009
PROJECT NO:	07183500
HFSA PROJECT NO:	0758.01
CAD DWG FILE NO:	
DRAWN BY:	STAFF
CHECKED BY:	SW
DESIGNED BY:	WP
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

LARGE SCALE
MECHANICAL ROOM
DEMOLITION PLAN

ME401

SHEET 4 OF 8