HVAC CONTROLS NOTE

AIR CONDITIONING CONTRACTOR SHALL PROVIDE OR CAUSE TO BE PROVIDED ALL CONTROLS, CONTROL WIRING & CONDUIT, POWER WIRING & CONDUIT, AND ALL OTHER ITEMS NECESSARY FOR INSTALLATION AND CONTROL OF HEAT PUMP AIR CONDITIONING UNITS. IN ADDITION, CONTRACTOR SHALL PROVIDE INTERFACE WITH THE EXISTING EMS SYSTEM COMPUTER GRAPHICALLY DEPICTING MECHANICAL LAYOUT WITH ON SCREEN DISPLAYS THAT ARE CONTROLLED BY THE EXISTING ENERGY MANAGEMENT SYSTEM (EMS). PROGRAMMING IS TO ALSO INCLUDE INTERFACE TO EXISTING PROGRAM DESIGNED TO CALCULATE TENANT OVERTIME USAGE OF THE AIR CONDITIONING SYSTEM. CONTACT BUILDING CONTROLS SERVICE CONTRACTOR PRE-NOVA AT 954-915-9930 (RICK SALAZAR) FOR ALL SPECIFICATIONS AND DETAILS. A COMPLETE AND OPERATIONAL CONTROL SYSTEM IS TO BE PROVIDED.

THERMOSTATS ARE TO BE WHITE-RODGERS, MODEL 1F86-344 SINGLE STAGE NON-PROGRAMMABLE TYPE.

THE ABOVE NOTES APPLY TO ALL EQUIPMENT IN THE TENANT SPACES, INCLUDING EXISTING HEAT PUMPS.

SYMBOL LEGEND

- HEAT PUMP A/C UNIT AS NOTED
- EXISTING EQUIPMENT AS NOTED
- SUPPLY AIR DIFFUSER AS NOTED
- RETURN/TRANSFER GRILLE AS NOTED
- EXISTING SUPPLY AIR GRILLE
- EXISTING RETURN/TRANSFER GRILLE
- DUCTWORK AS NOTED
- EXISTING DUCTWORK TO REMAIN
- DUCT TRANSITION
- TYPE B FIRE DAMPER W/ACCESS DOOR.
- MOTORIZED BACKDRAFT/VOLUME DAMPER, GREENHECK VCDR53
- MANUAL VOLUME DAMPER
- THERMOSTAT AS NOTED
- FLEXIBLE DUCT, U.L. CLASS 1
- CONNECTION TO EXISTING EQUIPMENT
- TAKE-OFF WITH VOLUME DAMPER FOR FLEXIBLE DUCT
- SD DUCT SMOKE DETECTOR WITH AUDIBLE & VISUAL ALARMS

ABBREVIATIONS

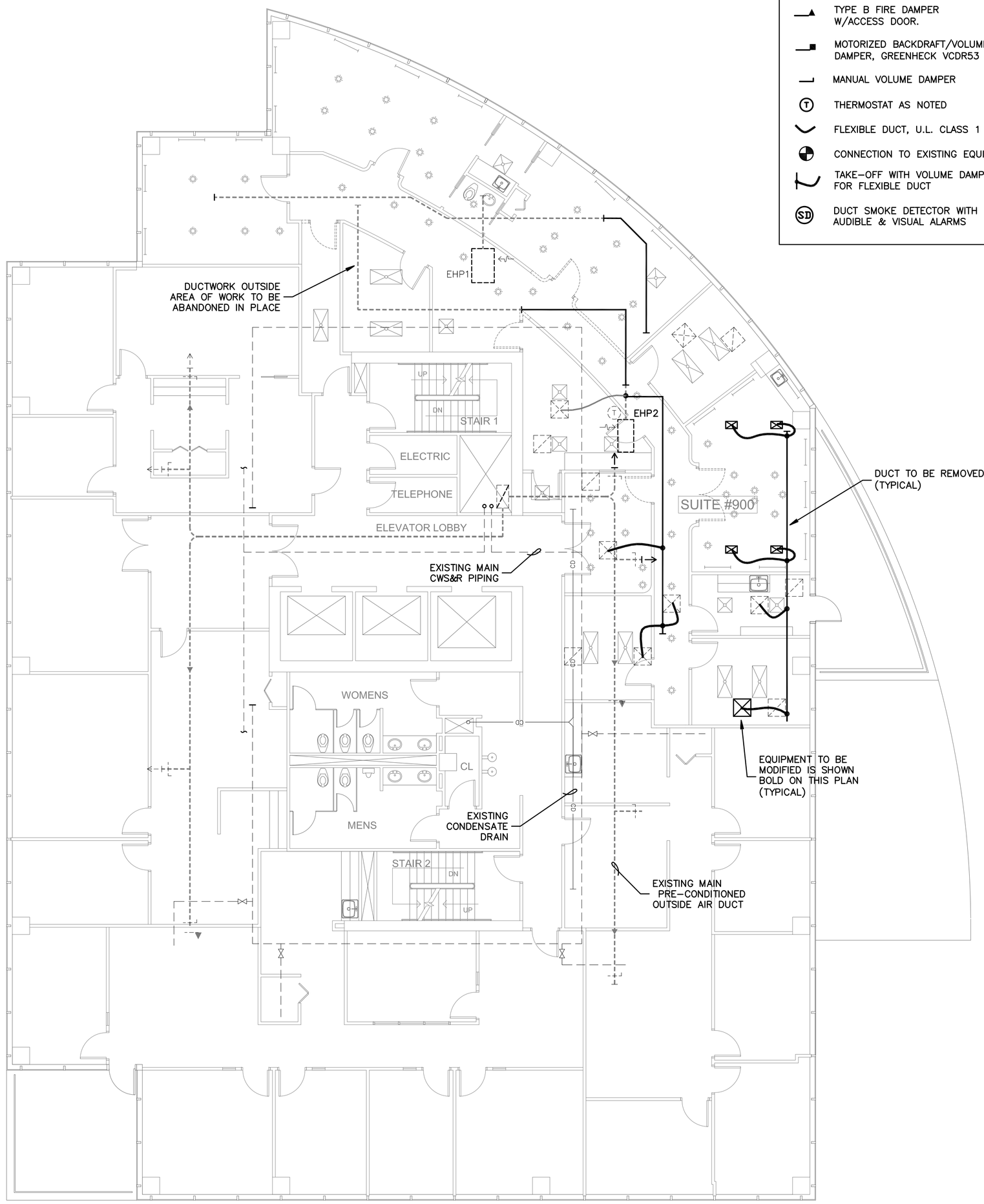
HP	HEAT PUMP WATER SOURCE TYPE
EHP	EXISTING HEAT PUMP
S/A	SUPPLY AIR
R/A	RETURN AIR
O/A	OUTSIDE AIR
E/A	EXHAUST AIR
CFM	CUBIC FEET PER MINUTE.
MVD	MANUAL VOLUME DAMPER (OPPOSED BLADE TYPE).
FD	FIRE DAMPER
CD	CONDENSATE DRAIN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN

THE CEILING SPACE THROUGHOUT THIS PROJECT IS A RETURN AIR PLENUM. NO COMBUSTIBLE OR TOXIC MATERIALS ARE ALLOWED ABOVE THE CEILING.

PLAN KEYNOTES:

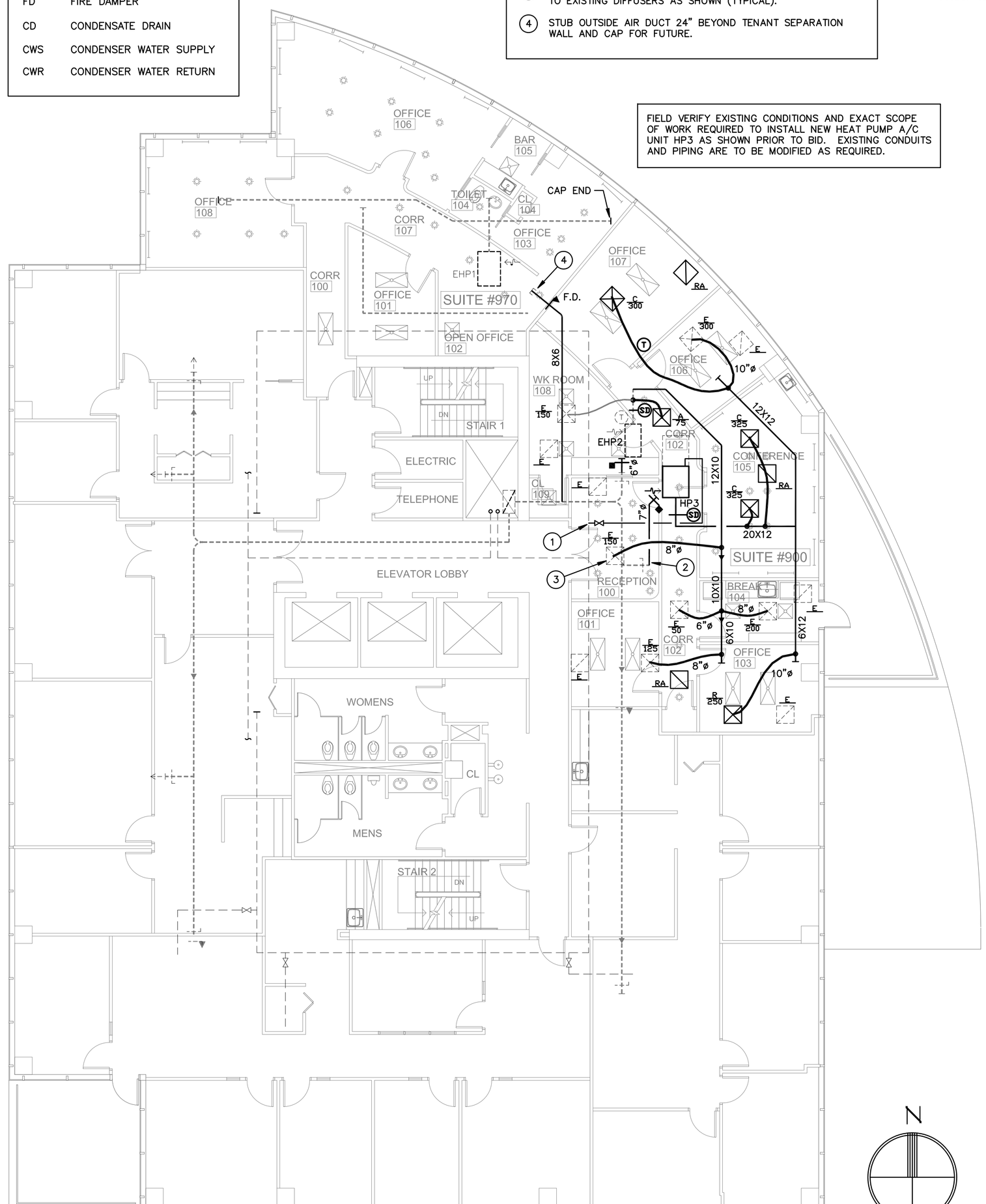
1. CONNECT TO EXISTING MAIN CWS&R PIPING IN THIS AREA FOR NEW HEAT PUMP A/C UNIT AS REQUIRED. PROVIDE NEW 3/4" CONDENSATE DRAIN CONNECTION, AND CONDENSATE PUMP AS REQUIRED. (TYPICAL)
2. PROVIDE SQUARE TO ROUND SHEETMETAL TRANSITION FROM EXISTING DUCT AS REQUIRED, FIELD VERIFY EXACT SIZES AND CONDITIONS (TYPICAL)
3. PROVIDE NEW FLEXIBLE DUCT AS REQUIRED FOR CONNECTION TO EXISTING DIFFUSERS AS SHOWN (TYPICAL).
4. STUB OUTSIDE AIR DUCT 24" BEYOND TENANT SEPARATION WALL AND CAP FOR FUTURE.

FIELD VERIFY EXISTING CONDITIONS AND EXACT SCOPE OF WORK REQUIRED TO INSTALL NEW HEAT PUMP A/C UNIT HP3 AS SHOWN PRIOR TO BID. EXISTING CONDUITS AND PIPING ARE TO BE MODIFIED AS REQUIRED.



EXISTING HVAC FLOOR PLAN

1/8" = 1'-0"



PROPOSED HVAC FLOOR PLAN

1/8" = 1'-0"

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