

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 SYSTEMS THAT ARE CONTROLLED BY THE EXISTING BMS/AEFA (TYPICAL). CONTRACTOR SHALL PROVIDE A HARDWARE AND SOFTWARE INTERFACE OF THE AIR CONDITIONING SYSTEM. CONTACT BUILDING CONTROLS SERVICE CONTRACTOR THERMAL CONCEPTS AT 1-800-953-2503 FOR SPECIFICATIONS AND DETAILS. A COMPLETE AND OPERATIONAL CONTROL SYSTEM IS TO BE PROVIDED. HEAT PUMP STARTER IS TO BE INTERLOCKED WITH THE EXISTING EMS CONTROL PANEL LOCATED IN THE COMMONS. (RELAY CONTACT)

THERMOSTATS ARE TO BE WHITE-ROSCERS PROGRAMMABLE TYPE, MODEL 1786-344 VERT. EXACT MODEL NUMBER WITH LANDLORD.

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

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

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 VDR63
	MANUAL VOLUME DAMPER
	THERMOSTAT AS NOTED
	FLEXIBLE DUCT, U.L. CLASS 1
	CONNECTION TO EXISTING EQUIPMENT
	TAKE-OFF WITH VOLUME DAMPER FOR FLEXIBLE DUCT
	DUCT SMOKE DETECTOR WITH AUDIBLE & VISUAL ALARMS

ABBREVIATIONS

HP	HEAT PUMP
WSP	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
M/D	MANUAL VOLUME DAMPER (PROPOSED BLADE TYPE)
FD	FIRE DAMPER
AHU	AIR HANDLING UNIT
CD	CONDENSATE DRAIN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN

PROPOSED PLAN KEYNOTES:

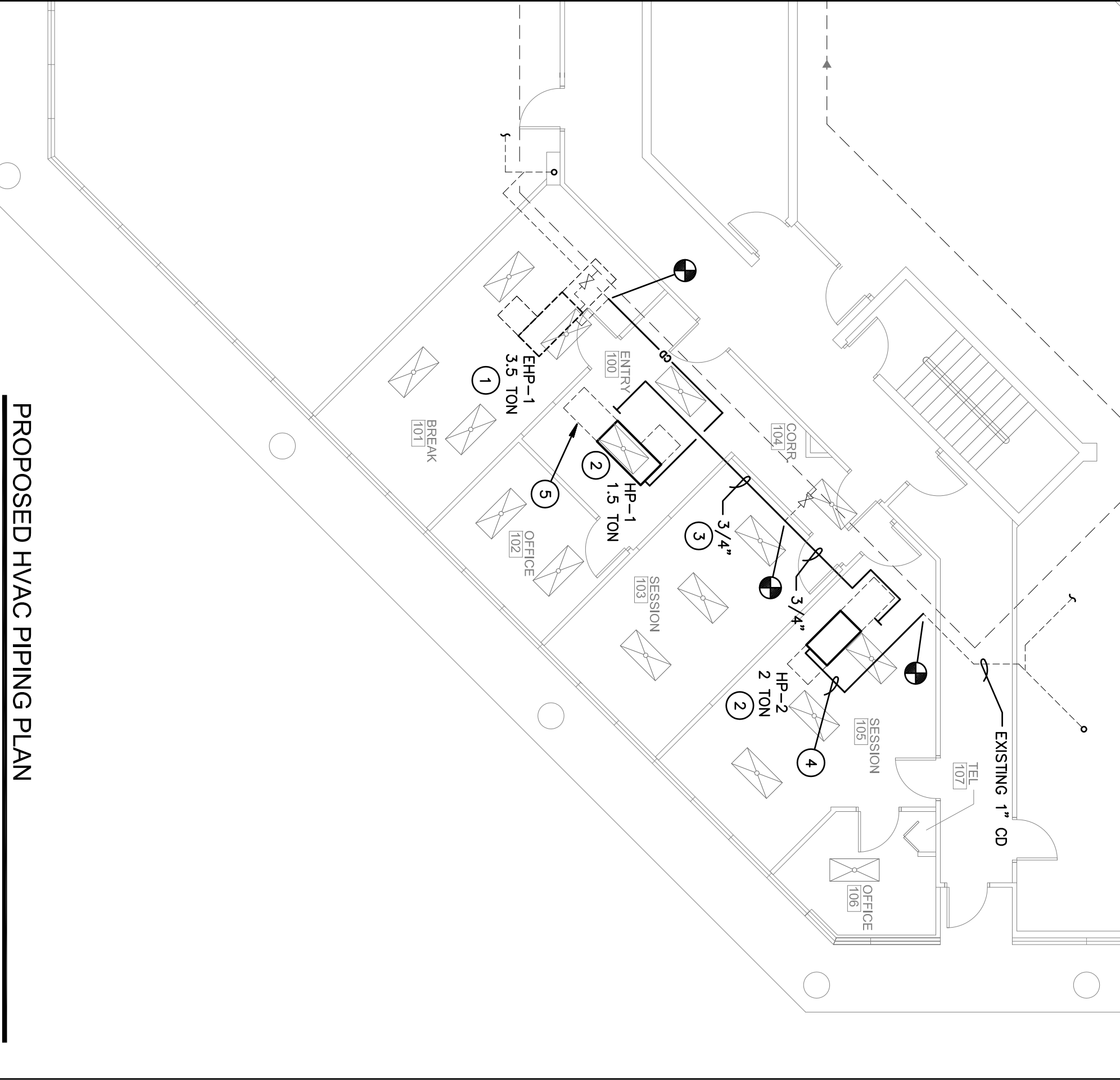
- EXISTING HEAT PUMP TO REMAIN.
- PROPOSED NEW HEAT PUMP A/C UNIT
- CWR PIPING NOT SHOWN FOR CLARITY. MATCH CWS PIPING SHOWN (TYPICAL)
- CONDENSATE DRAIN PIPING IS 3/4" MINIMUM, EXCEPT AS NOTED OTHERWISE
- MAINTAIN 42" CLEAR SPACE ON ELECTRICAL ACCESS SIDE OF A/C UNITS (TYPICAL)
- EXISTING OUTSIDE AIR GRILLE IN SOFFIT, WITH 12X6 DUCT STUBBED TO INTERIOR. (TYPICAL)
- PROVIDE SQUARE TO ROUND TRANSITION AS REQUIRED. (TYPICAL)
- PROVIDE SHEETMETAL CAP TO SEAL OPENING IN EXISTING O/A DUCT.

EXISTING CONDENSATE RISER DOWN TO MAIN CONDENSATE DRAIN

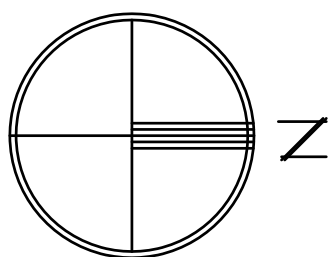
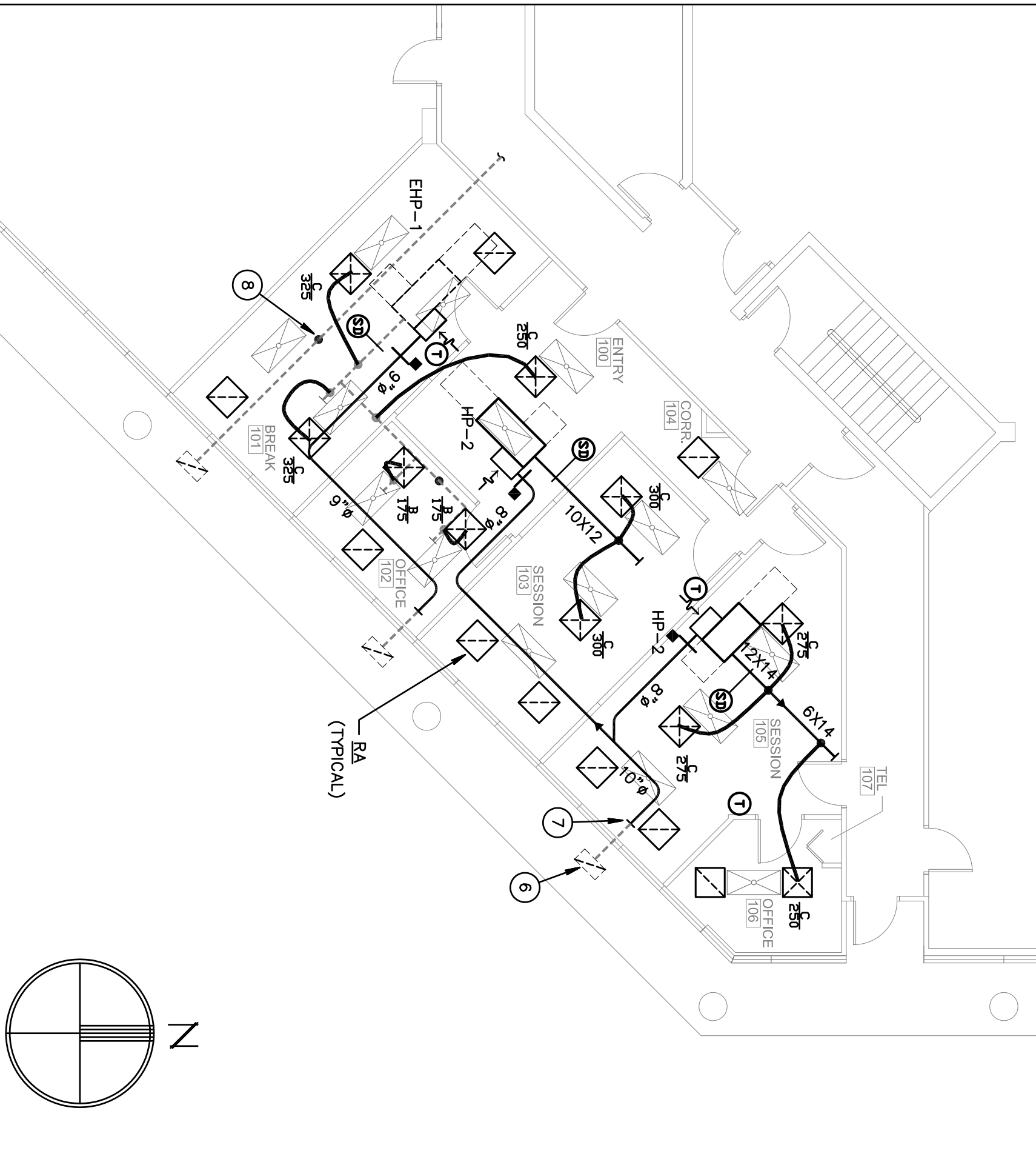
EXISTING HEAT PUMP A/C UNIT TO BE REMOVED. REMOVE ALL DUCTWORK AND PIPING (TYPICAL OF 2)

EXISTING HVAC FLOOR PLAN

PROPOSED HVAC PIPING PLAN



PROPOSED AIR DISTRIBUTION PLAN



REVISIONS

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DRAWN BY GD

CD

3/29/12