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Comm. No. 5806-09

Sym. REVISIONS Date

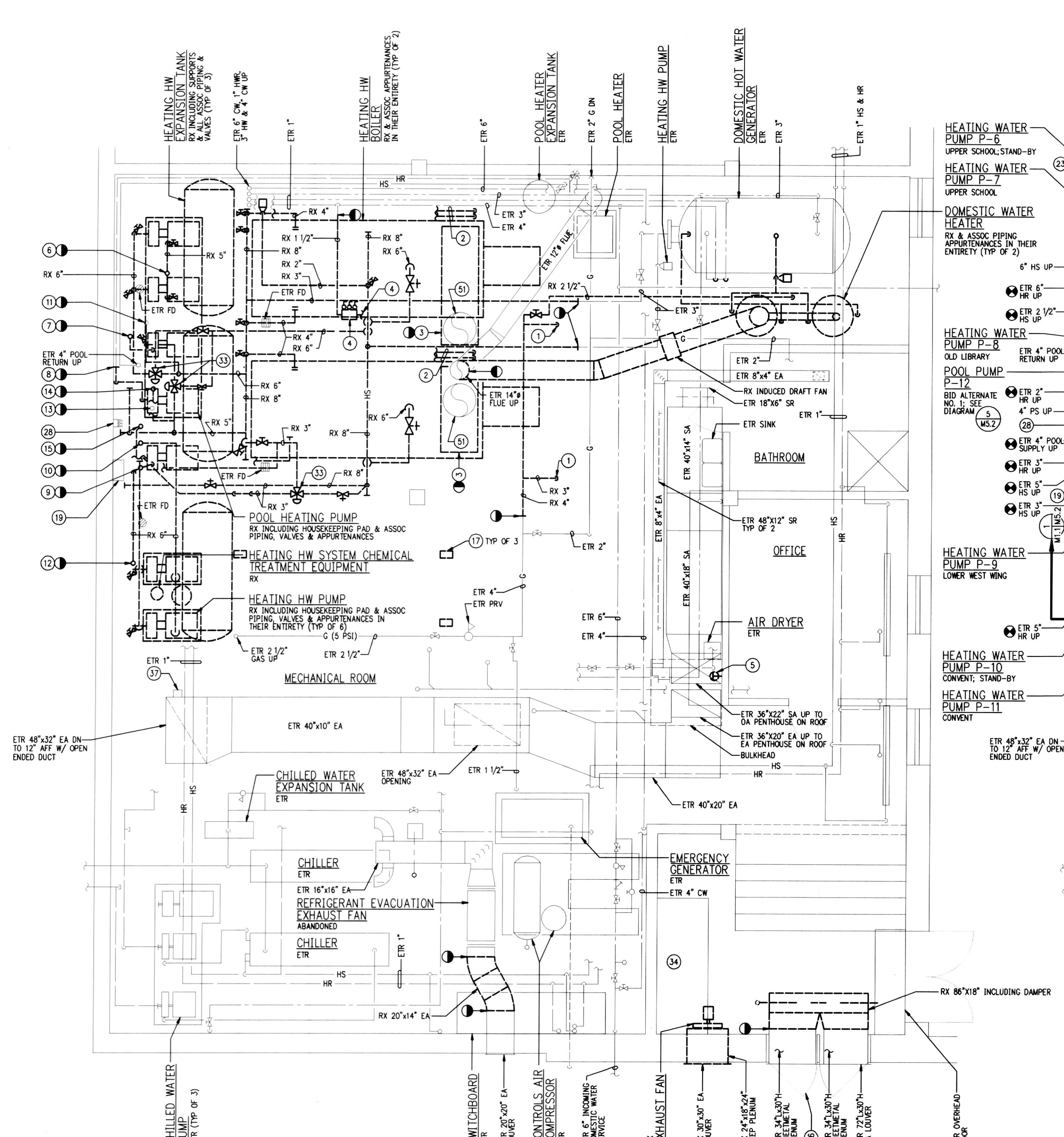
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Drawn: ARS
 Designed: DSB
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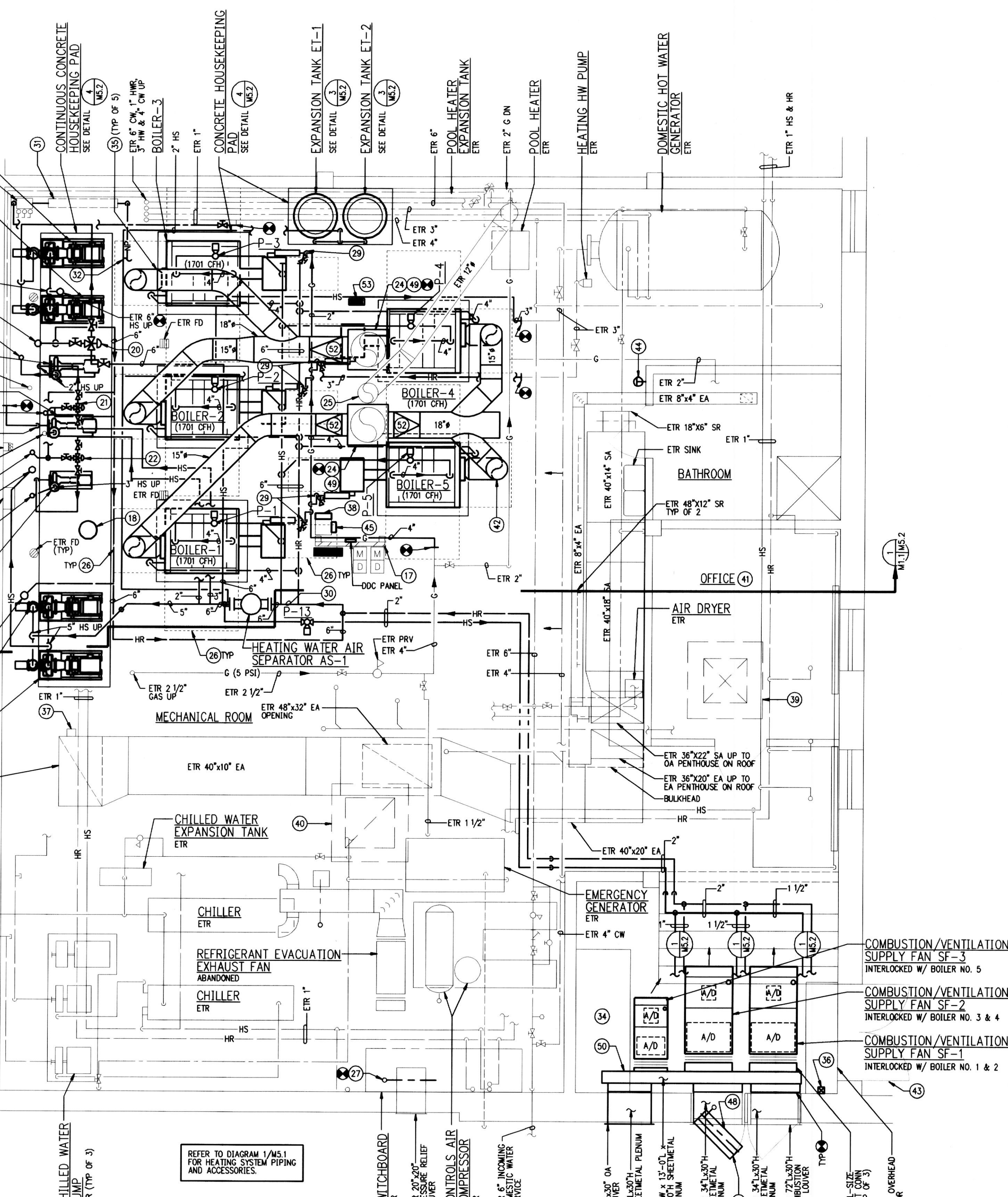
Scale: 1/4" = 1'-0"
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Drawing Title:
PART FLOOR PLAN BOILER ROOM - HVAC

Sheet No:
M1.1



PART FLOOR PLAN - MECHANICAL ROOM
 HVAC/PIPING - DEMOLITION
 SCALE: 1/4" = 1'-0"



PART FLOOR PLAN LOWER LEVEL - MECHANICAL ROOM
 HVAC/PIPING - NEW WORK
 SCALE: 1/4" = 1'-0"

- GENERAL NOTES:**
- INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND AVOID DELAY BEFORE PROCEEDING WITH THE WORK.
 - DO NOT LOCATE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT.
 - ALL WORK SHALL BE PHASED IN ACCORDANCE WITH OWNER REQUIREMENTS.

- FIRE PROTECTION NOTES:**
- REMOVE EXISTING SPRINKLER PIPING AND SPRINKLER HEADS WITHIN THE BOILER/CHILLER ROOM AS REQUIRED TO SUIT NEW WORK REQUIREMENTS. PROVIDE NEW SPRINKLER PIPING AND SPRINKLER HEADS.
 - THE PIPING ARRANGEMENT, HEAD LOCATIONS, AND SIZING SHALL BE BY THE CONTRACTOR IN ACCORDANCE WITH NFPA 13 AND AS INDICATED ON THE CONTRACT DRAWINGS AND SPECIFICATIONS.
 - CONTRACTOR SHALL COORDINATE SPRINKLER SYSTEM WITH ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL BUILDING COMPONENTS.
 - SPRINKLER PIPING SHALL BE SIZED PER THE SCHEDULE METHOD IN NFPA 13.
 - THE BOILER/CHILLER ROOM SHALL BE CLASSIFIED AS ORDINARY HAZARD GROUP 2.
 - PROVIDE GUARDS ON SPRINKLER HEADS IN BOILER/CHILLER ROOM WHERE SPRINKLER HEAD COULD BE DAMAGED OR WHERE ANY HEAD IS WITHIN 7'-6" OF FINISH FLOOR.
 - CONTRACTOR SHALL PROVIDE HIGH TEMPERATURE HEADS REQUIRED IN AREAS DUE TO UNIT HEATERS, BOILERS, ETC.

- SPECIFIC NOTES:**
- RX 3" G DN TO CONNECTION TO BURNER/BLOWER INCLUDING GAS TRAIL.
 - RX 2" FOS/FOR PIPING DN TO BELOW FLOOR SLAB AND CAP. REPAIR FLOOR SLAB.
 - RX RECTANGULAR BOILER BREACHING UP TO 6" BELOW STRUCTURE.
 - RX AND SALVAGE BACKFLOW PREVENTER; RX 1 1/2" CW (NP) PIPING SERVING HEATING HOT WATER SYSTEM MAKE-UP WATER SYSTEM.
 - RX TEMPERATURE SENSOR AND ASSOCIATED WIRING, ASSOCIATED WITH EX MER VENTILATION SYSTEM.
 - RX 5" HS (#11 AND #22 UPPER SCHOOL) UP TO 6" BELOW STRUCTURE.
 - RX 2 1/2" HS (#21 OLD LIBRARY) UP TO 6" BELOW STRUCTURE.
 - RX 2 1/2" HS (POOL SUPPLY) TO POINT INDICATED ON DRAWING.
 - RX 3" HS (#19 LOWER WEST WING) UP TO 6" BELOW STRUCTURE.
 - RX 5" HS (CONVENT) UP TO 6" BELOW STRUCTURE.
 - RX 6" HR (#11 AND #22 UPPER SCHOOL) UP TO 6" BELOW STRUCTURE.
 - RX 5" HR (CONVENT) UP TO 6" BELOW STRUCTURE.
 - RX 4" (POOL SUPPLY) UP FROM PUMP DISCHARGE TO APPROX. 60" AFF.
 - RX 2" HR (#21 OLD LIBRARY) UP TO 6" BELOW FLOOR.
 - RX 3" HR (#19 LOWER WEST WING) UP TO 6" BELOW STRUCTURE.

- PRESTANDING SUPPORT FOR ELECTRICAL PANELBOARDS AND OTHER ELECTRICAL EQUIPMENT; SHOWN FOR COORDINATION PURPOSES ONLY, SEE ELECTRICAL DWGS.
- RX ABANDONED 8"x8" CONC EQUIPMENT PADS.
- HEATING WATER CHEMICAL FEED SYSTEM
- ETR PNEUMATIC ATC PANEL/TIMELOCK ASSOCIATED WITH BUILDING ZONE HEATING CONTROL SYSTEM.
- SALVAGED ATC MIXING VALVE SERVING UPPER SCHOOL HEATING ZONE.
- ATC MIXING VALVE SERVING OLD LIBRARY HEATING ZONE.
- ATC MIXING VALVE SERVING LOWER WEST WING HEATING ZONE.
- ETR REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER SERVING HEATING WATER MAKE-UP WATER SYSTEM.
- PROVIDE 28"x28" BOILER FLUE VENT (10 GAGE STEEL ALL WELDED CONSTRUCTION) AND CONNECT TO EXISTING FLUE VENT APPROXIMATELY 6" FROM BOTTOM OF STRUCTURE. ETR FLUE VENT SIZE AND LOCATION SHALL BE FIELD VERIFIED PRIOR TO FABRICATION.
- ETR 1 1/4" POOL HEATER FLUE VENT UP THROUGH ROOF.
- BOILER SERVICE CLEARANCE; DO NOT INSTALL ANY SYSTEMS WITHIN THIS AREA THAT ARE NOT ASSOCIATED WITH THE BOILER.
- PROVIDE ATC DAMPER (PRESSURE RELIEF DAMPER #2) AND INTERLOCK WITH COMBUSTION/VENTILATION SUPPLY AIR FANS.
- ETR BACKFLOW PREVENTER SERVING POOL HEATING MAKE-UP WATER SYSTEM.

- 2" G DOWN TO BOILER GAS TRAIL.
- PRIMARY/SECONDARY DECOUPLER BRIDGE (12" MAX DISTANCE BETWEEN TEES).
- INSTALL HEATING WATER SYSTEM MAKE-UP ASSEMBLY 36" AFF; SEE DIAGRAM.
- CONNECT MAKE-UP WATER SUPPLY PIPING TO HEATING WATER SYSTEM PER DIAGRAM.
- RX AND SALVAGE 3-WAY ATC MIXING VALVE FOR REINSTALLATION UNDER NEW WORK.
- ETR ELECTRICAL EQUIPMENT.
- PROVIDE INCREASE AT BOILER BREACHING CONNECTION.
- BOILER GAS BURNER EMERGENCY SHUTOFF PUSHBUTTON; SEE ELECTRICAL DRAWINGS.
- ETR REFRIGERANT DETECTION SYSTEM.
- BOILER CONTROL PANEL; MOUNT ON COLUMN AT 60" AFF.
- ETR CHILLER ROOM EMERGENCY VENTILATION SUPPLY FAN ON ROOF; REBALANCE TO 2,900 CFM.
- ETR CHILLER ROOM EXHAUST FAN ON ROOF; REBALANCE TO 3,600 CFM.
- RX BOILER EMERGENCY MANUAL SHUTOFF SWITCH AND ASSOCIATED WIRING LOCATED IN OFFICE; EXISTING CHILLER EMERGENCY MANUAL SHUTOFF SWITCH SHALL REMAIN.
- INSTALL BAROMETRIC DAMPER (TYP EACH BOILER).

- PROVIDE NEW AIRTIGHT GASKETING AT ENTRANCE DOORS TO MECHANICAL ROOM.
- MECHANICAL ROOM TEMPERATURE SENSOR; MOUNT ON WALL 12" AFF.
- COMBUSTIBLE GAS DETECTOR SYSTEM CONTROL PANEL; MOUNT ON COLUMN AT 60" AFF.
- RX DOOR; FRAMING SHALL REMOVE.
- PROVIDE NEW EXTERIOR LOUVERED DOOR; SEE DETAIL.
- FULL SIZE DUCT TO MATCH LOUVER SIZE WITH ATC DAMPER ATTACHED TO REAR OF LOUVER; SEE DETAIL.
- PROVIDE 1" DRAIN IN BOTTOM OF FLOOR WITH SHUTOFF VALVE AND PIPE TO NEAREST FLOOR DRAIN.
- PROVIDE FOUR (4) 8"x8" ACCESS DOORS LOCATED AS REQUIRED FOR CLEANING PLENUM.
- PROVIDE RECTANGULAR TO ROUND TRANSITION; RECTANGULAR SIZE SAME SIZE AS ROUND.
- TEN GAS REGULATOR VENTS UP THROUGH CEILING OF MECHANICAL ROOM AND ROUTED INSIDE EXISTING CLOSET AT MIDDLE LEVEL. PROVIDE FIRESTOPPING AT PENETRATION. PIPES CONTINUE UP THROUGH EXISTING ROOF AND TERMINATE TO ATMOSPHERE. PROVIDE PIPE PENETRATION ROOF CURB AND FLASH INTO EXISTING ROOF. COORDINATE EXACT INSTALLED LOCATION OF VENTS WITH OWNER.

