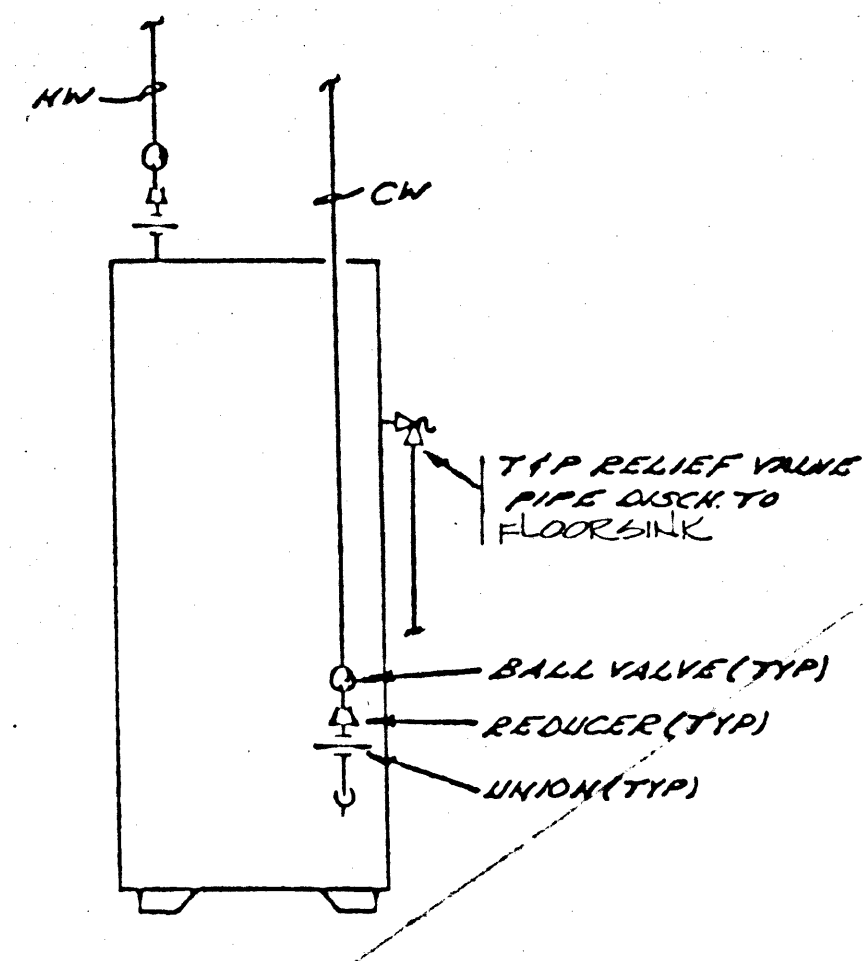
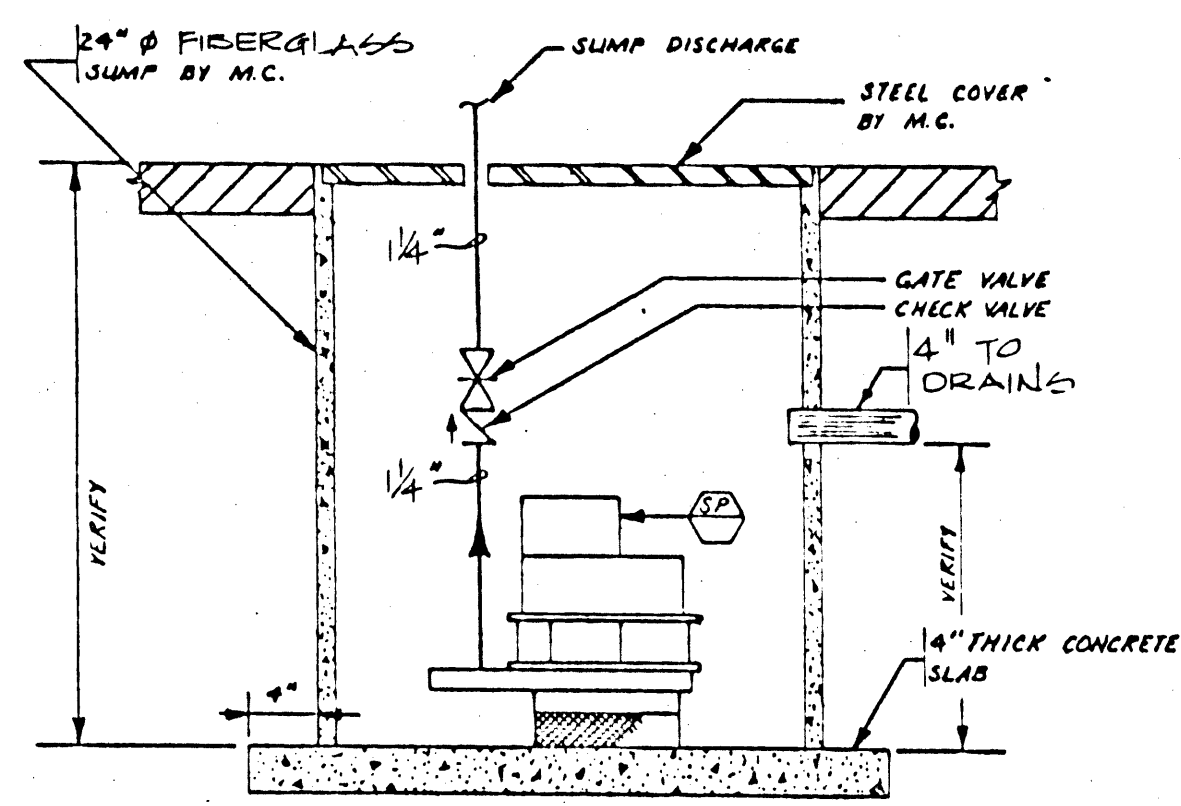
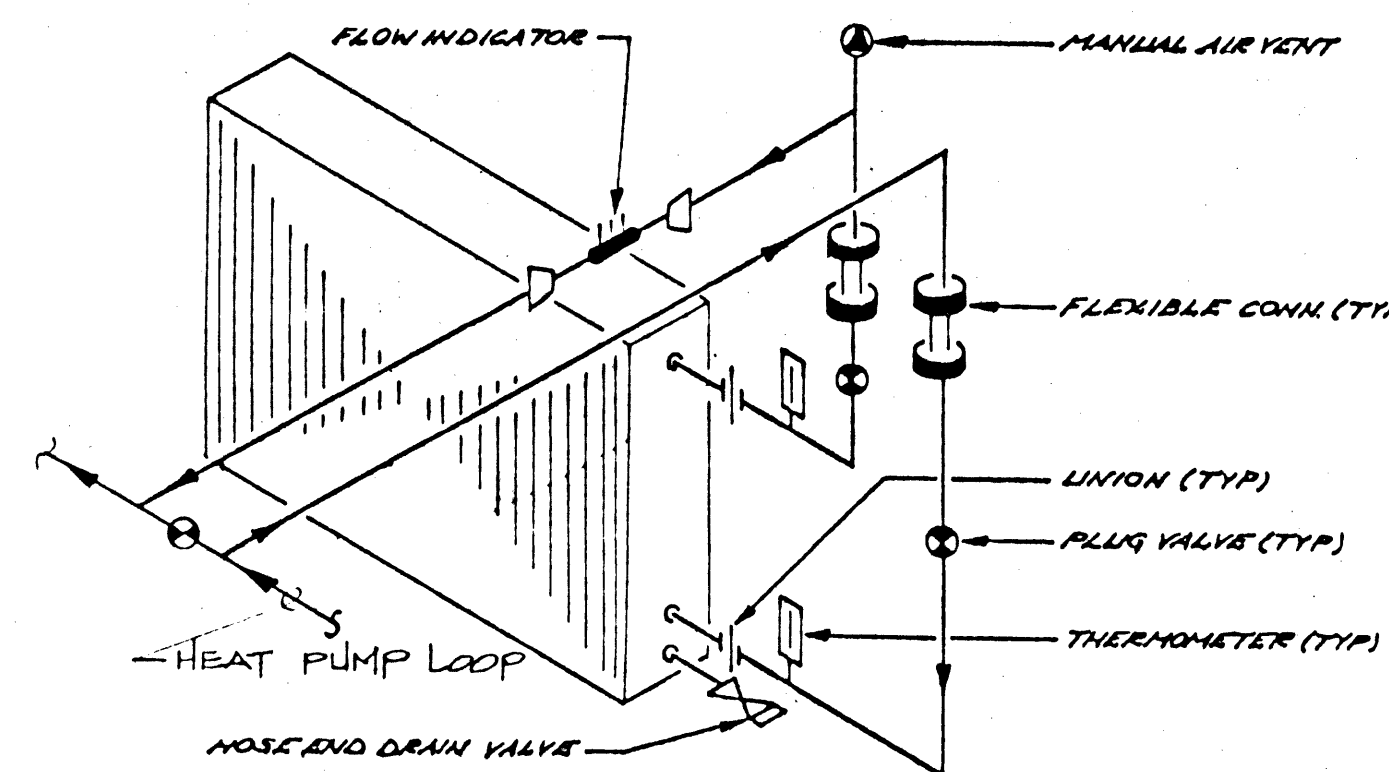




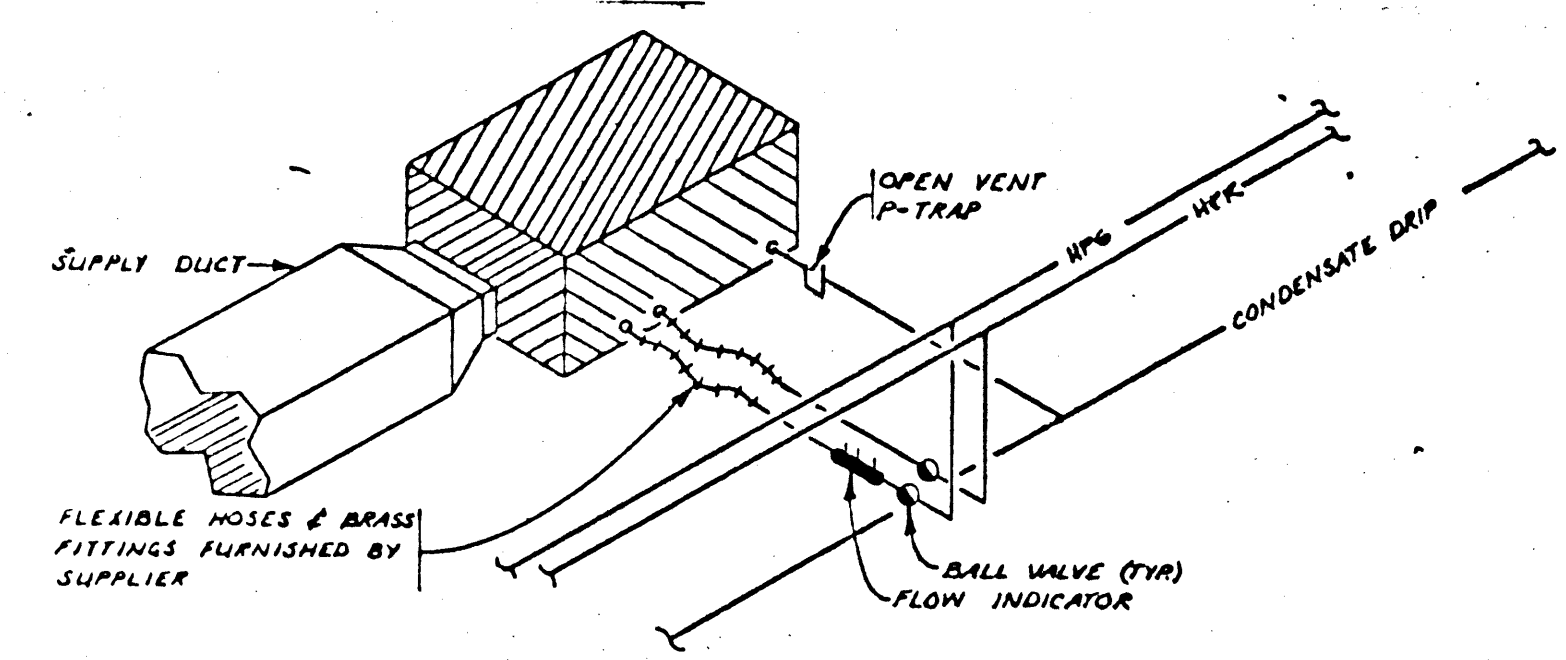
1 WATER HEATER DETAIL
NTS



2 SUMP PUMP DETAIL
NTS

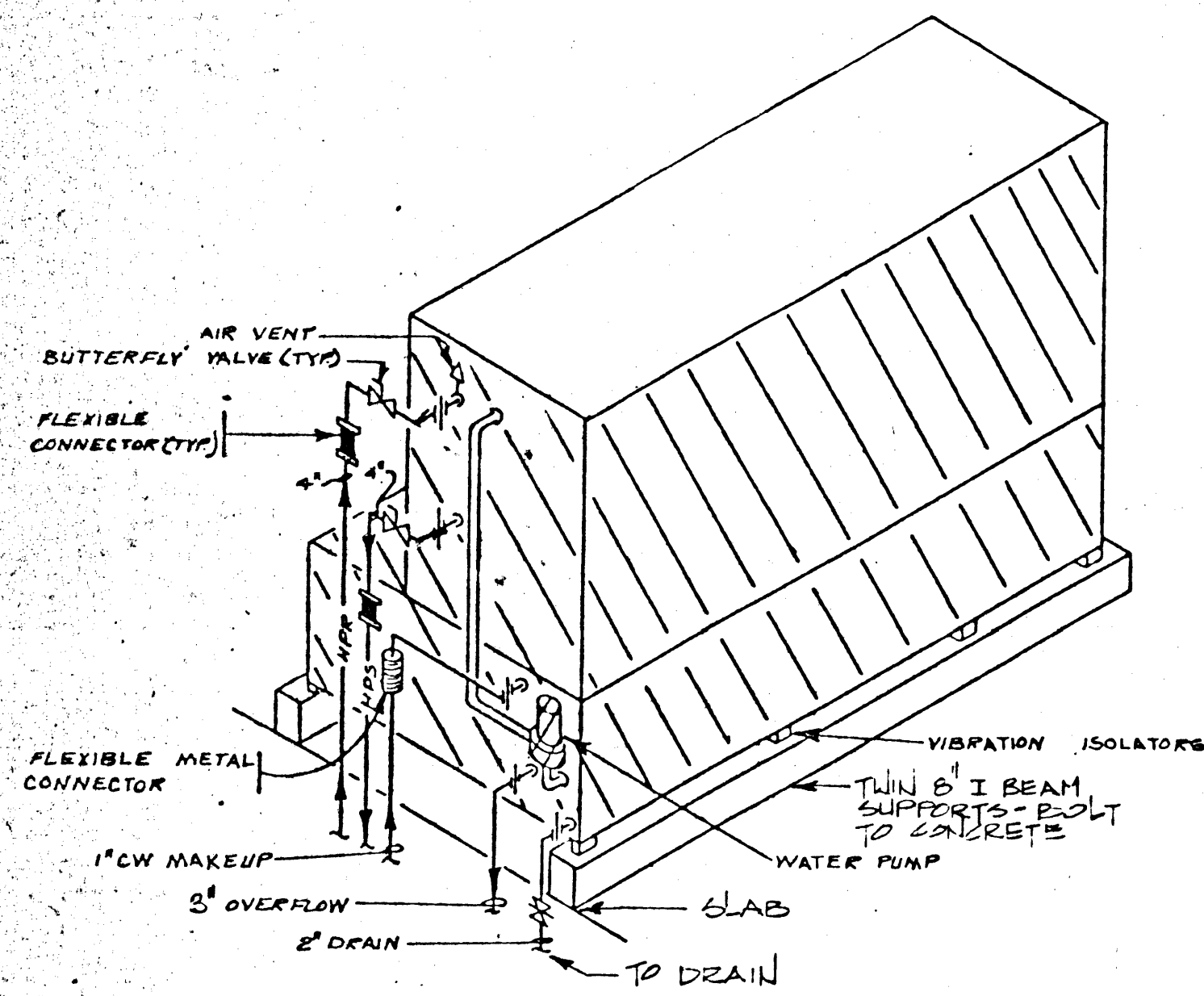


3 AH-1 HOT WATER COIL DETAIL
NTS

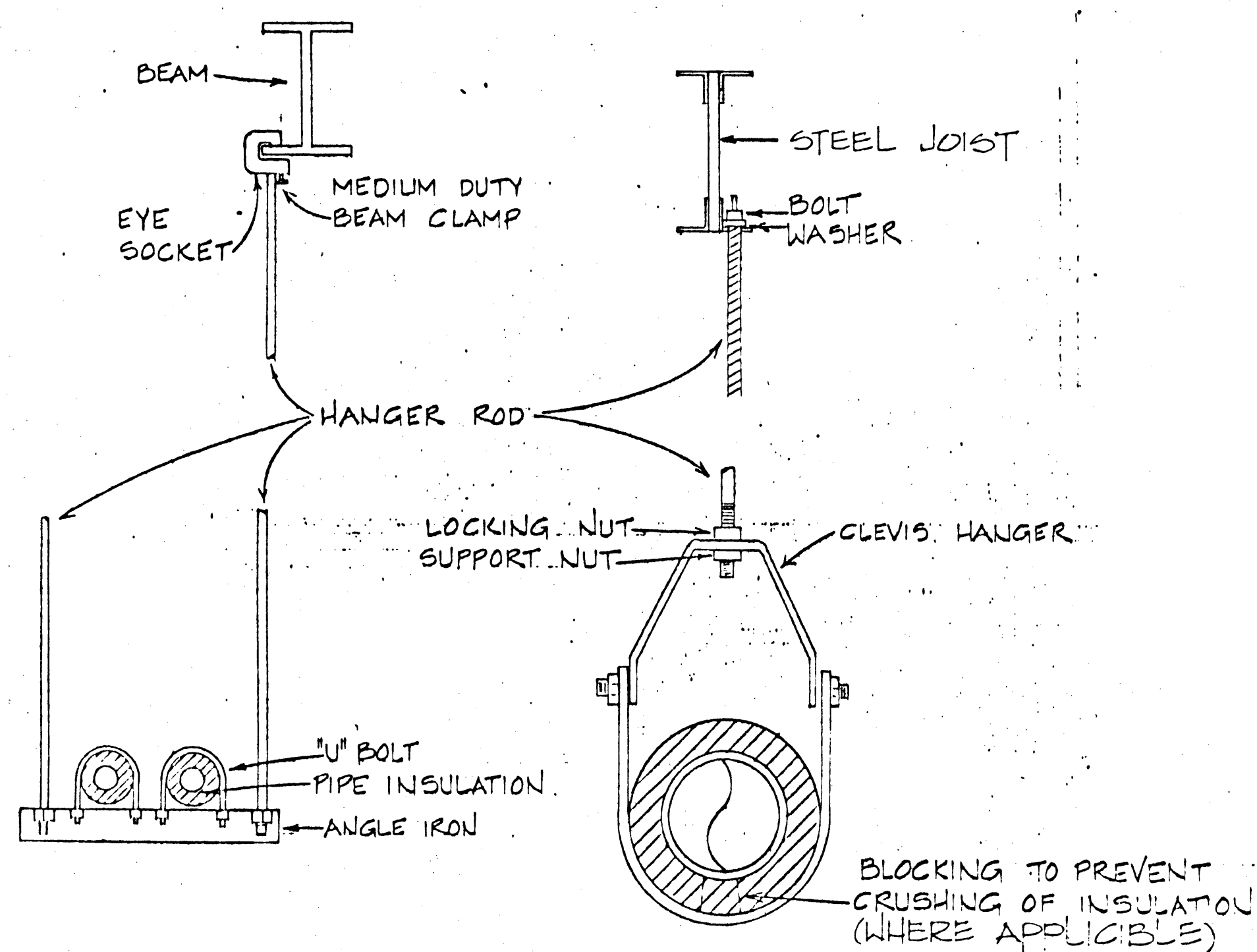


NOTE: SUSPEND HEAT PUMPS FROM 2"x2"x1/8" ANGLE IRON WELDED TO STEEL JOISTS SUPPORTING (4) 3/8" THREADED RODS WITH NEOPRENE IN-SHEAR VIBRATION ISOLATORS AT UNIT.

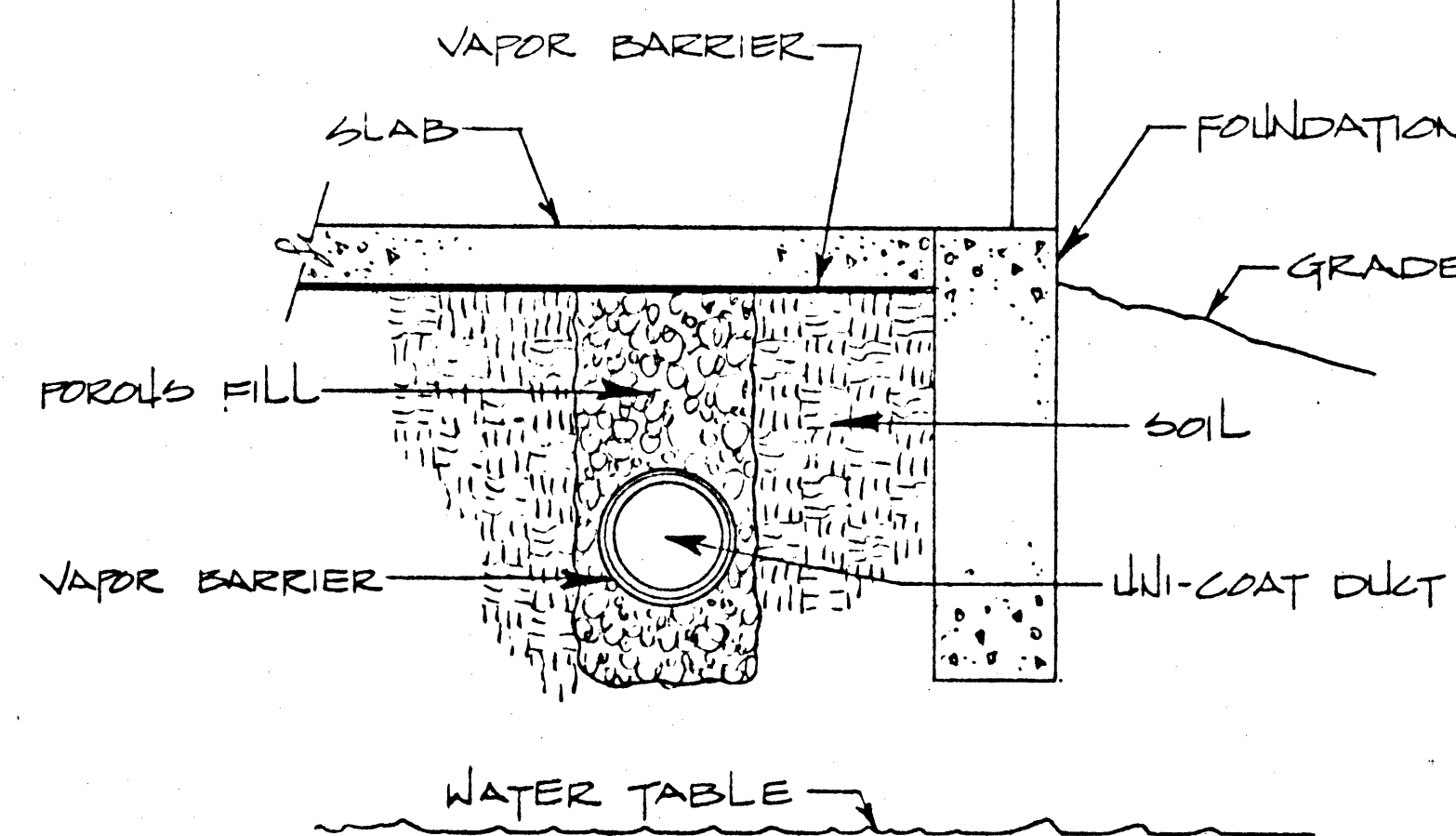
4 HEAT PUMP PIPING DETAIL
NTS



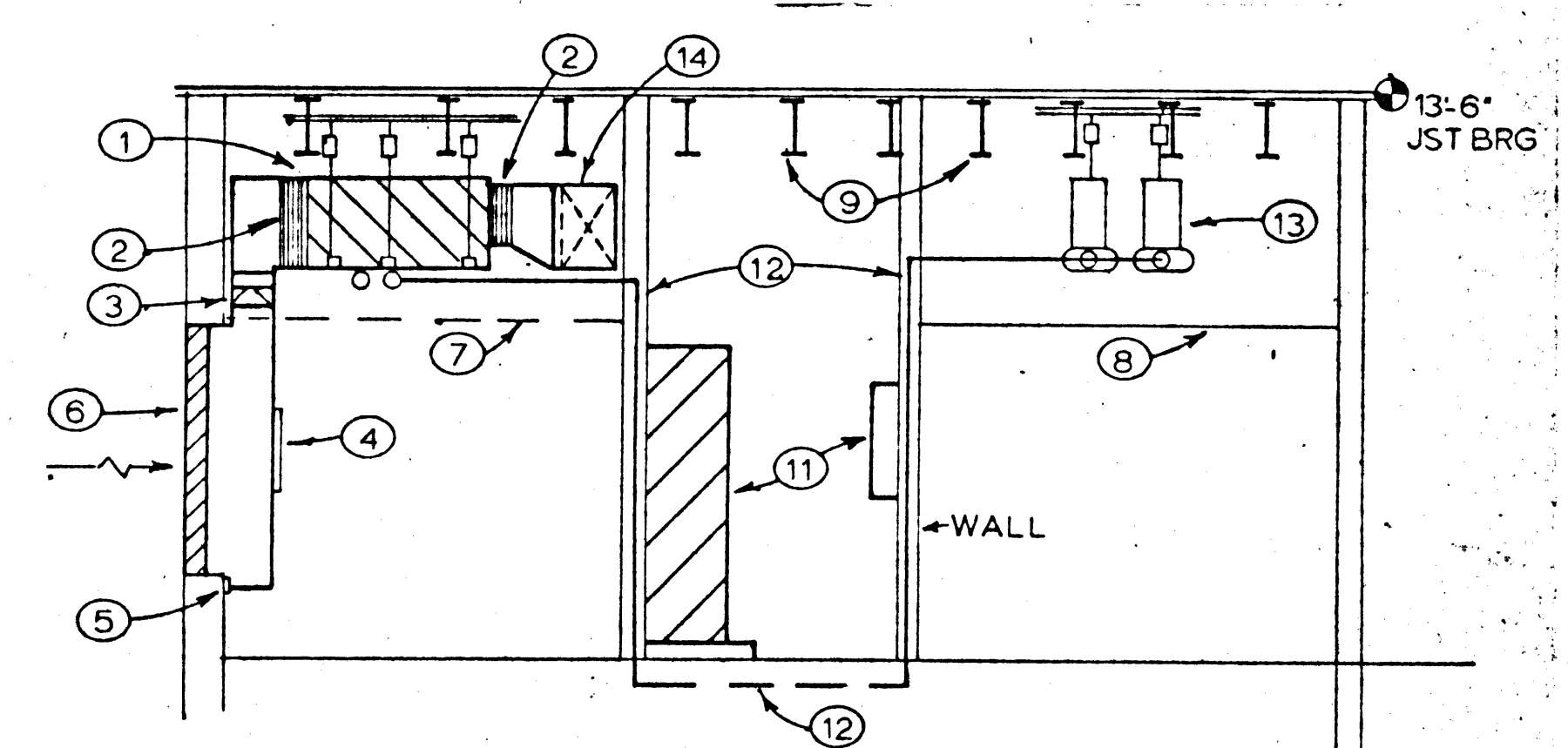
5 EC-1 DETAIL
NTS



6 PIPE SUPPORT DETAILS
NTS

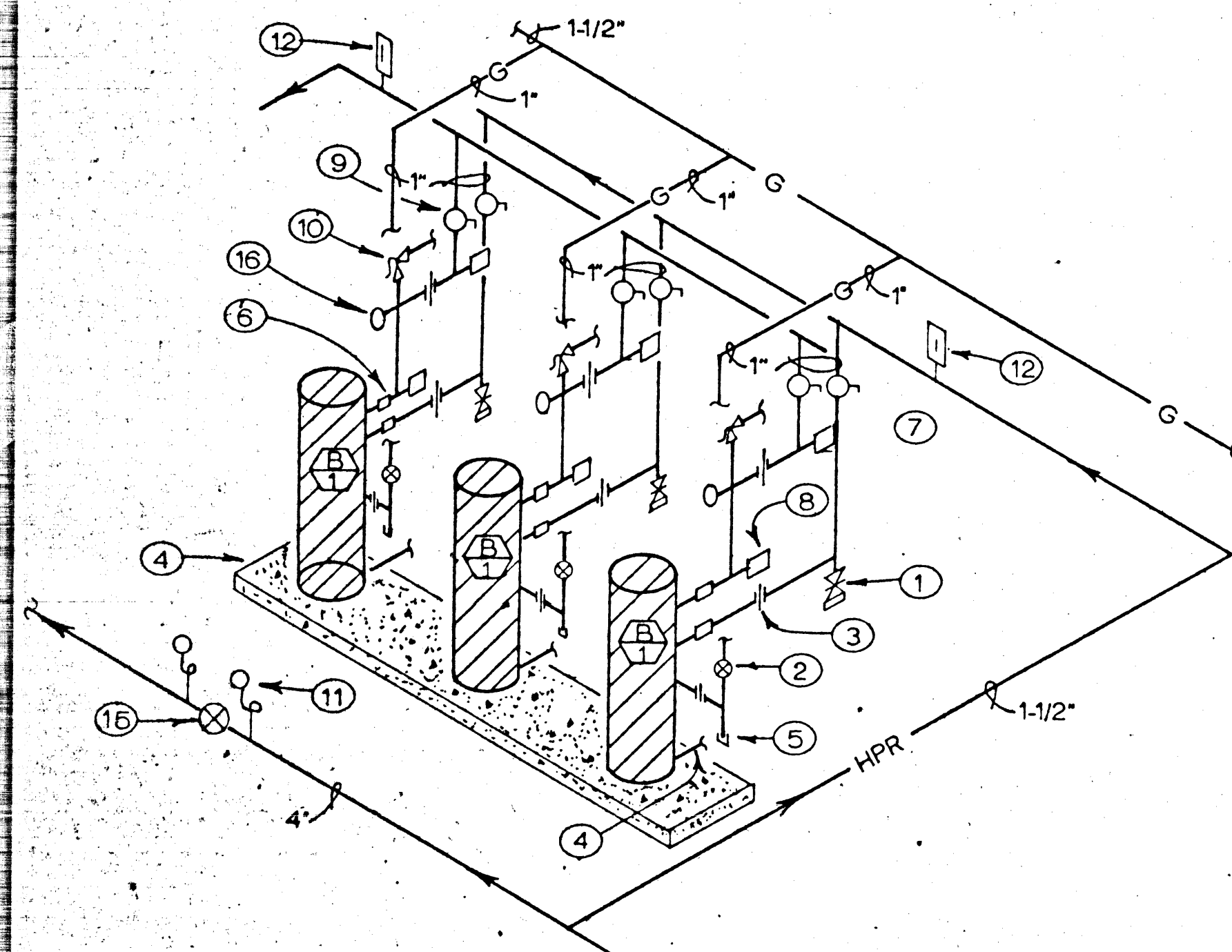


7 UNDERGROUND DUCT DETAIL
NTS



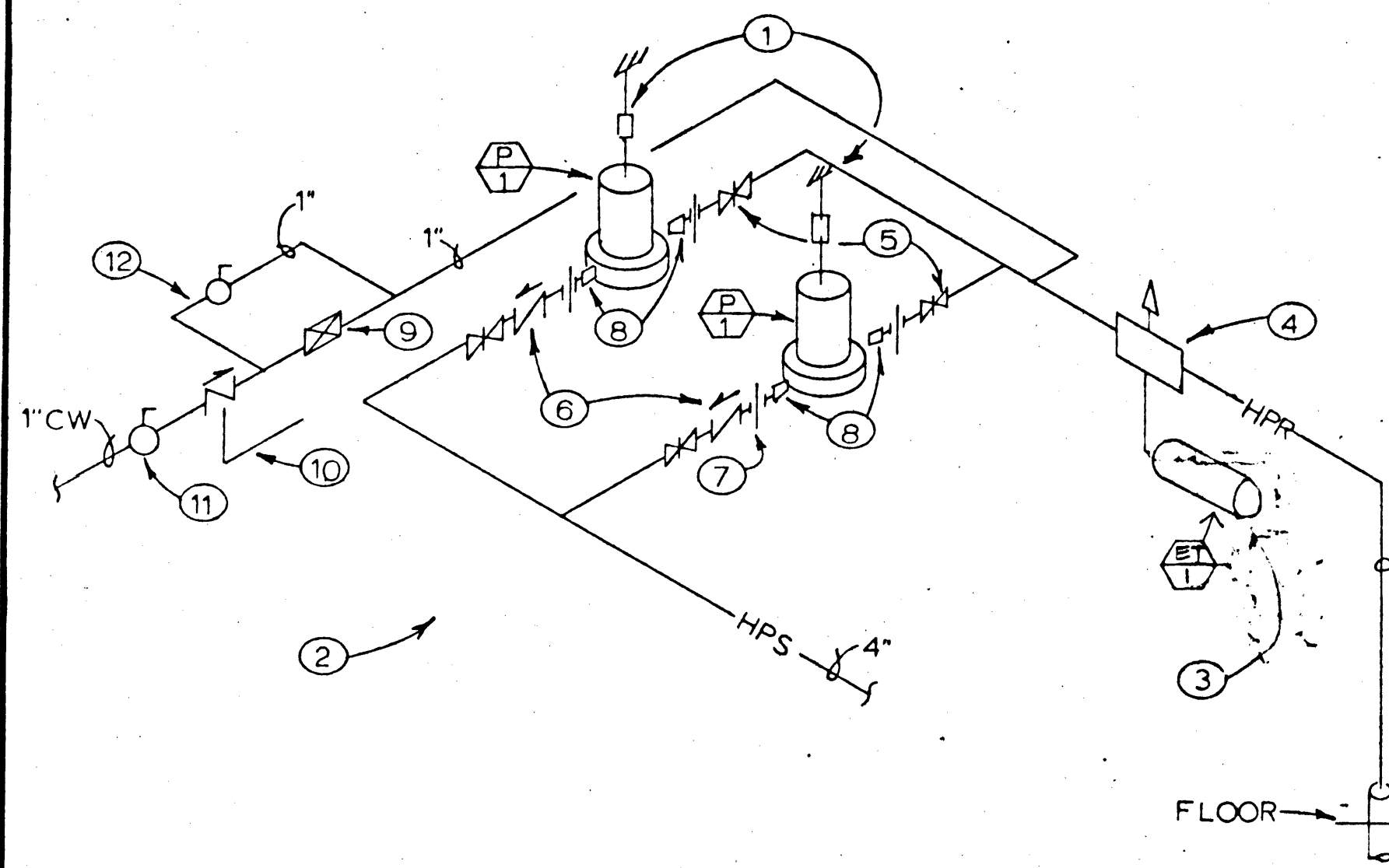
- SECTION CUT KEYED NOTES:
- 1 SUSPEND AH-1 FROM CEILING JOISTS W/ 3"x3"x5/16" ANGLE IRON, 5/8" THREADED RODS & VIBRATION ISOLATORS.
 - 2 FLEXIBLE DUCT CONNECTION.
 - 3 12" x 48" AUTOMATIC OUTDOOR AIR DAMPER IN 12" x 48" OUTDOOR AIR DUCT.
 - 4 ACCESS DOOR.
 - 5 2" DRIP PAN - SOLDER WATERTIGHT.
 - 6 6'-0" x 4'-0" WIDE OUTDOOR AIR INTAKE LOUVER. VERIFY COLOR & FRAMING REQUIREMENTS.
 - 7 8'-0" CEILING IN HALLWAY BEYOND.
 - 8 8'-0" CEILING.
 - 9 ROOF STRUCTURE.
 - 10 ELECTRICAL ROOM - NO PIPING IN OR ABOVE THIS ROOM PER N.E.C.
 - 11 DIV. 16 SWITCH GEAR.
 - 12 4" HPR PIPING.
 - 13 CIRCULATING PUMPS.
 - 14 15" x 24" SUPPLY AIR DUCT BANK THRU WALL.

8 SECTION CUT
NTS



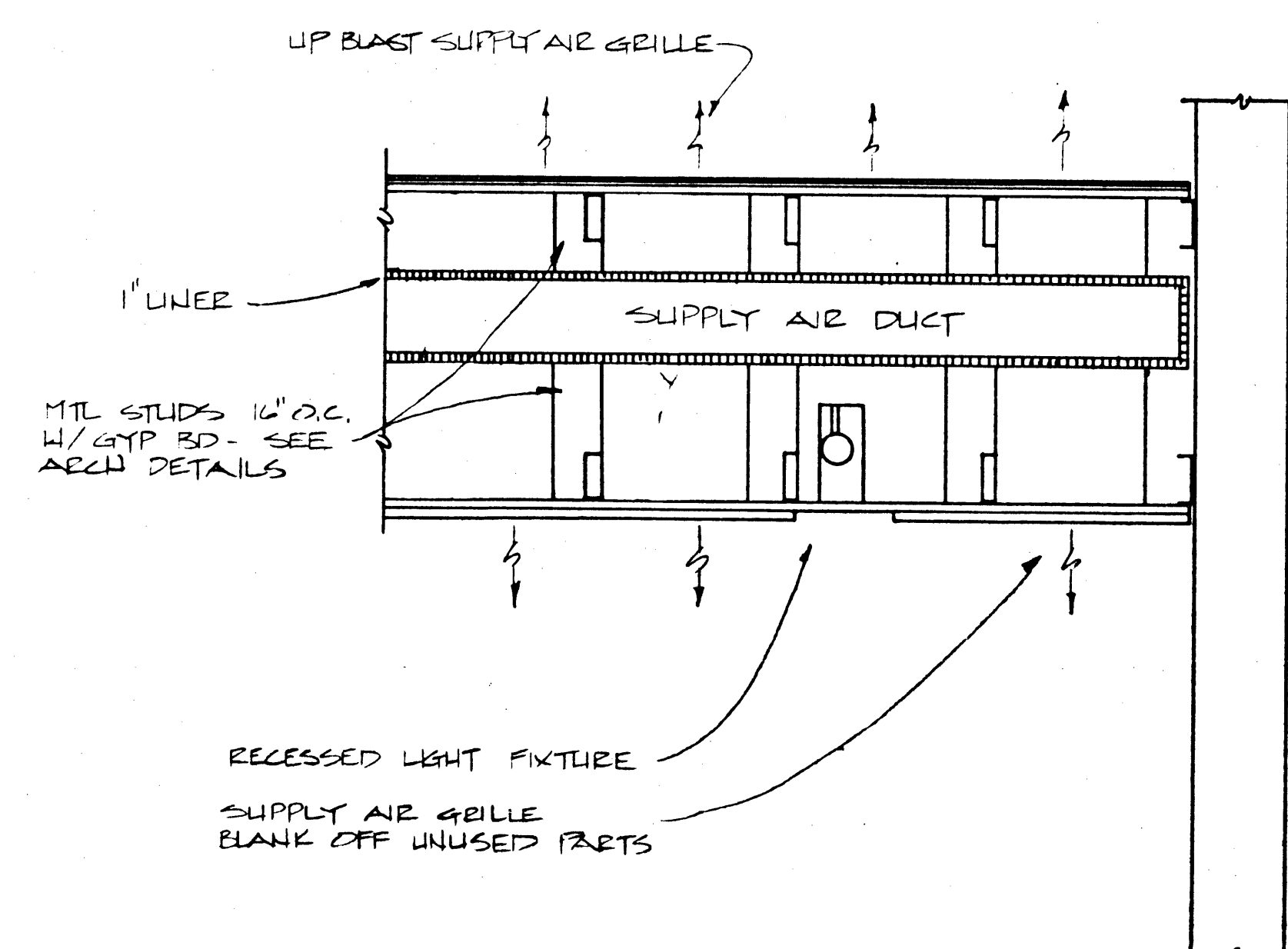
- BOILER PIPING DETAIL KEYED NOTES
- 1 HOSE END DRAIN VALVE (TYPICAL).
 - 2 1" GAS SHUTOFF VALVE.
 - 3 TYPICAL UNION.
 - 4 3/4" CONDENSATE DRIP - PIPE TO FLOOR SINK (TYPICAL OF 3).
 - 5 6" DIRT LEG (TYPICAL).
 - 6 1 of 6 VIBRATION ISOLATORS FURNISHED WITH UNITS.
 - 7 LOW WATER CUT OFF (TYPICAL).
 - 8 HI LIMIT AQUASTAT (TYPICAL).
 - 9 TYPICAL BALL VALVE.
 - 10 PRESSURE RELIEF VALVE - PIPE DISCHARGE FULL SIZE TO FLOOR SINK.
 - 11 PIGTAIL, STOPCOCK & PRESSURE GAUGE (TYPICAL).
 - 12 THERMOMETER (TYPICAL).
 - 13 BALL VALVE (TYPICAL).
 - 14 6" CONCRETE PAD.
 - 15 4" PLUG VALVE - TO DIVERT FLOW.
 - 16 TEMP/PRESSURE GAUGE (TYPICAL).
- PROVIDE 2" CPVC INLET & OUTLETS FOR COMBUSTION AIR MUFFLERS AS REQUIRED BY MFG., AND TRANSITION TO CAST IRON AT ROOF PENETRATIONS. PROVIDE DRAINS AT BOTTOM OF STACKS. PAINT ALL PIPING ABOVE ROOF TO MATCH ROOF.

9 BOILER PIPING DETAIL
NTS



- CIRCULATING PUMP DETAIL KEYED NOTES
- 1 PUMPS SHALL BE SUPPORTED FROM JOISTS ABOVE WITH 3"x3"x3/16" ANGLE IRON SPANNING THE JOISTS, SUPPORTING 5/8" ROD AND VIBRATION ISOLATORS.
 - 2 PUMPS, AIR PURGER, VALVES, ETC., SHALL BE MOUNTED ABOVE CEILING OF STORAGE ROOM.
 - 3 EXPANSION TANK MOUNTED ON HPR STAND IN ATTIC. SUBMIT SUPPORT DETAIL SHOWING TACO #437 AIR SCOOP WITH AUTOMATIC AIR VENT.
 - 4 TYPICAL GATE VALVE.
 - 5 TYPICAL CHECK VALVE.
 - 6 TYPICAL UNION OR FLANGE.
 - 7 ECCENTRIC REDUCER.
 - 8 TACO #335 3/4" PRESSURE REDUCING VALVE.
 - 9 3/4" TACO #335 90 BACKFLOW PREVENTER PIPE DISCHARGE TO FLOOR SINK IN MECH. ROOM.
 - 10 TYPICAL BALL VALVE.
 - 11 1" BYPASS FOR QUICK FILL.
 - 12 1" BYPASS FOR QUICK FILL.

10 CIRCULATING PUMP DETAIL
NTS



11 LINEAR GRILLE DETAIL
NTS