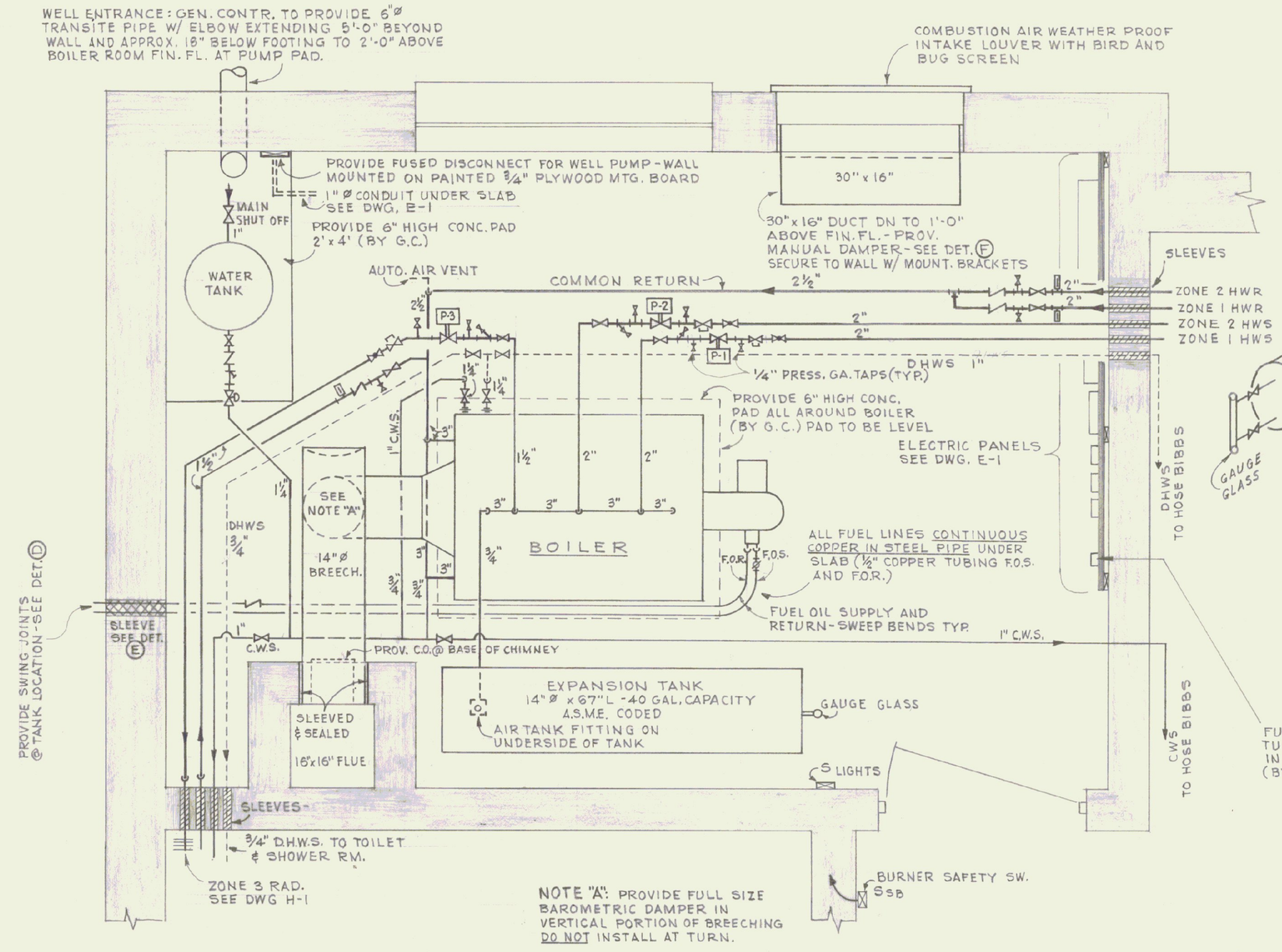
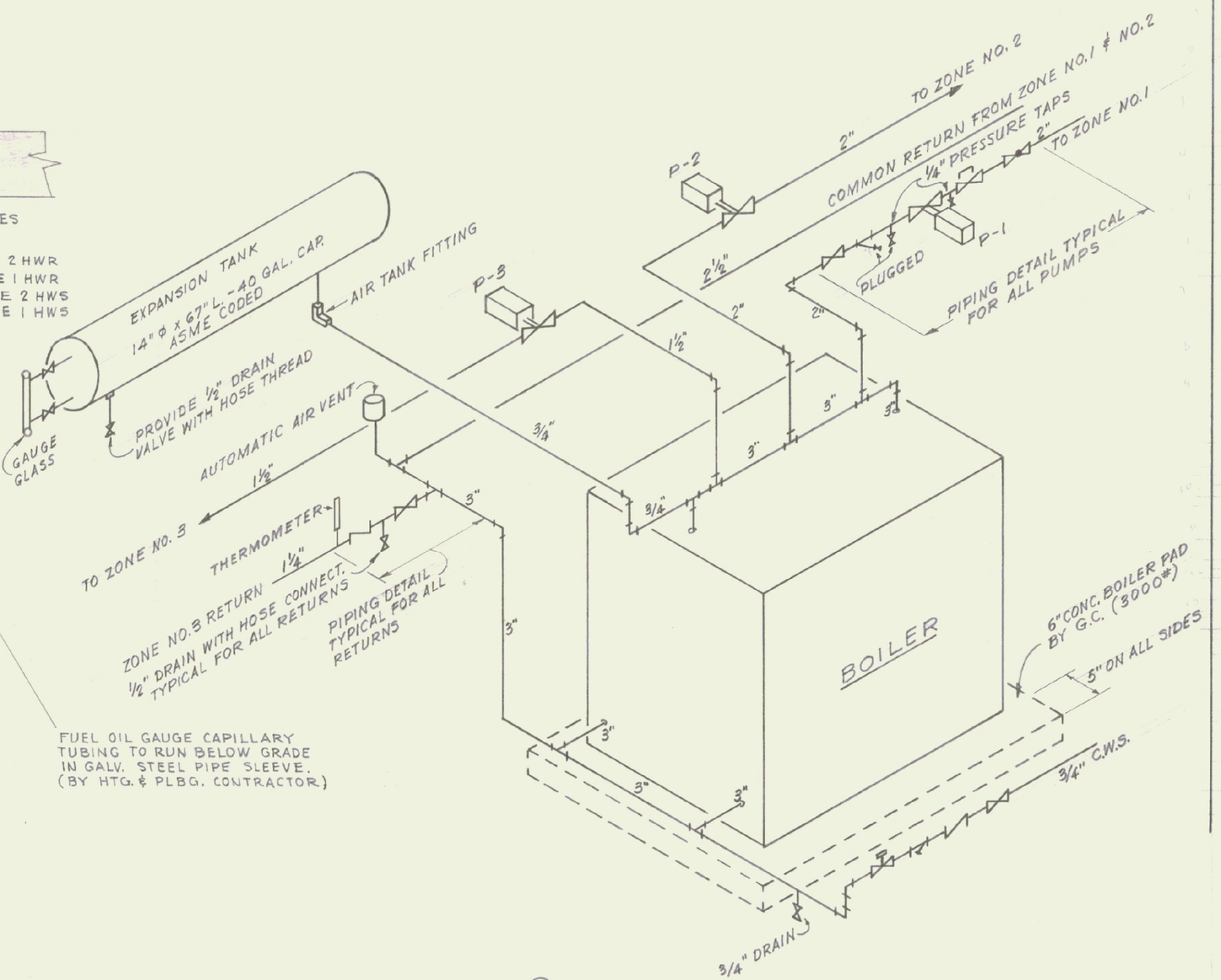


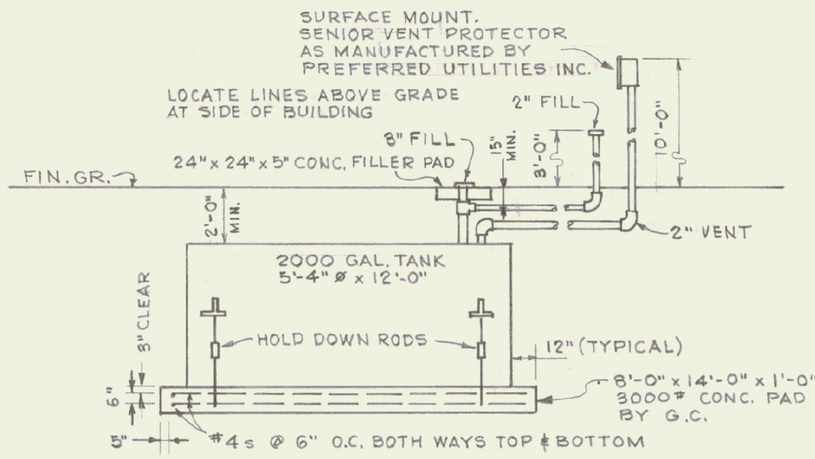
BOILER RM. FLOOR PLAN
SCALE: ¾" = 1'-0"



(A) BOILER PIPING DETAIL
(N.T.S.)

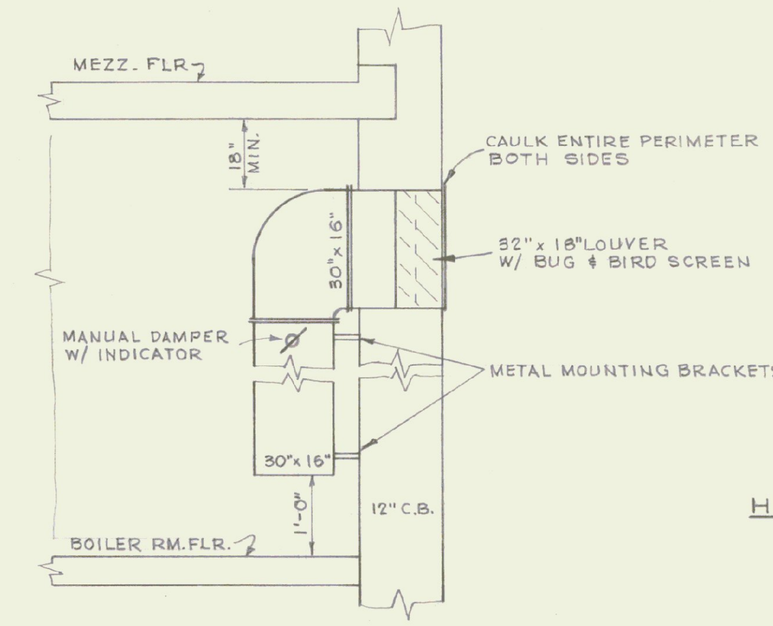
GENERAL NOTES

1. CONTRACTOR SHALL SUBMIT DATA & CUTS OF EQUIPMENT FOR APPROVAL PRIOR TO ORDERING MATERIAL.
2. ALL PIPING IS SCHEMATIC, CONTRACTOR SHALL CO-ORDINATE HIS WORK WITH OTHER TRADES.
3. MOTORS ON ALL NEW UNIT HEATERS SHALL BE TOTALLY ENCLOSED FRAME CONSTRUCTION WITH PERMANENTLY LUBRICATED BEARINGS & BUILT-IN THERMAL OVERLOAD PROTECTION.
4. HEATING CONTRACTOR SHALL PROVIDE SERVICE SWITCH AT EACH UNIT HEATER.
5. SEE SITE PLAN FOR LOCATION OF BURIED OIL TANK.
6. ALL WATER SUPPLY PIPING ABOVE FLOOR SLAB ELEVATION SHALL BE INSULATED - JOINTS SHALL BE PAINTED.
7. ALL HEATING PIPING IN THE BOILER RM., MAIN BUILDING & THRU SLEEVES SHALL BE INSULATED AND THE INSULATION JOINTS PAINTED.
8. EACH CIRCULATING PUMP SHALL HAVE BUILT-IN THERMAL OVERLOAD PROTECTION
9. EACH U.H. SHALL HAVE AN AQUASTAT CONTROL TO PREVENT THE FAN FROM OPERATING BELOW A PREDETERMINED H.W.R. TEMP. TO PREVENT COLD AIR CIRCULATION WITHIN THE BUILDING. T'STATS SHALL SWITCH FANS OFF WHEN HEAT DEMAND IS SATISFIED.
10. ALL PUMPS SHALL BE RATED TO OPERATE ON 120/240 V/ 1 HP/ 3 W UNLESS OTHERWISE SPECIFIED OR INDICATED
11. PROVIDE ONE OIL BURNER SAFETY SWITCH OUTSIDE OF BOILER ROOM DOOR.
12. PROVIDE ONE OIL BURNER SAFETY SWITCH AT MAIN ENTRANCE OF MAIN BUILDING AT MAN DOOR.
13. BOILER ROOM FINISHED FLOOR TO BE SAME ELEV. AS MAIN BUILDING FLOOR BUT SHALL BE PITCHED TOWARD DRAIN.
14. CONCRETE BOILER PAD SHALL BE LEVEL (BY G.C.).
15. PIPING FOR FUEL OIL SUPPLY AND RETURN, OIL FILL AND VENT SHALL BE SCHEDULE 40 BLACK STEEL ASTM A-120 W/ MALLEABLE IRON SCREWED FITTINGS.
16. HEATING CONTRACTOR SHALL SET SLEEVES AND HANGER SUPPORTS IN BOILER ROOM CONCRETE ROOF SLAB BEFORE POURING OF SLAB. WALLS SHALL BE SEALED AFTER PIPING IS INSTALLED.

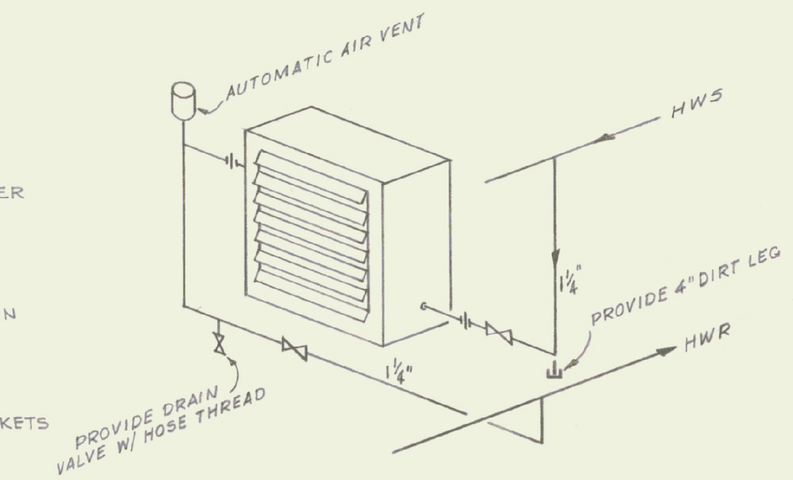


(D) FUEL OIL TANK PAD DETAIL
SCALE: ¼" = 1'-0"

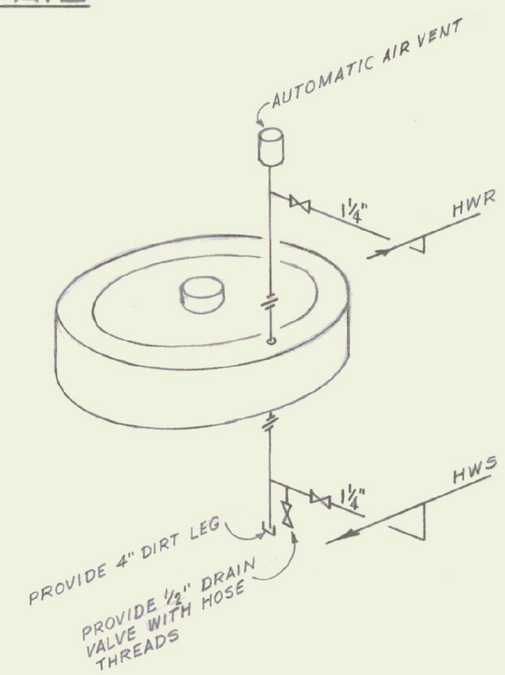
NOTE: INSTALL F.O.S. SUCTION AND F.O.R. DISCHARGE AT SAME ELEVATION IN STORAGE TANK.



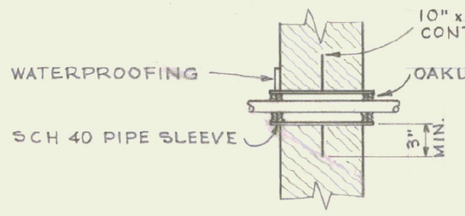
(F) INTAKE LOUVER DETAIL
SCALE: ¾" = 1'-0"



(B) TYPICAL HORIZONTAL UNIT HEATER DETAIL
(N.T.S.)



TYPICAL (C) VERTICAL UNIT HEATER DETAIL
(N.T.S.)



(E) SLEEVE DETAIL
SCALE: ¾" = 1'-0"

HEATING EQUIPMENT SCHEDULE
(RATINGS @ 190° A.W.T. W/ 20° DIFFERENTIAL)

MARK	TYPE	MANUFACT.	MODEL	M.B.H.	H.P.	DISCHARGE	R.P.M.	C.F.M.	REMARKS
HUH 1-2	UNIT HEATER	MODINE	HS-535	100	¼	HORIZ.	1075	2090	WITH HORIZ. DEFLECTOR BLADES (ADJUSTABLE)
VUH 1-2	UNIT HEATER	MODINE	V-810	145	¼	VERTICAL	1075	3530	WITH CONE JET DEFLECTOR
P-1	IN-LINE	BELL & GOSSETTE	60-2 AA	40 G.P.M.	¾	5' 4" I.M.P.	1725	25' HD	
P-2	IN-LINE	BELL & GOSSETTE	60-2 AA	50 G.P.M.	¾	5' 4" I.M.P.	1725	25 HD	
P-3	IN-LINE	BELL & GOSSETTE	60-1'2 AA	25 G.P.M.	½	5' 4" I.M.P.	1725	25 HD	
RAD	STERLING STYLEX VERSA-LINE	STERLING	S-144	1.02					1" 4" I.P.S. STEEL TUBE W/ 4"x4" x 4" STEEL FINS - 40 FINS PER FT.

INITIALS	DATE	REVISIONS

STATE OF VERMONT
DIVISION OF STATE BUILDINGS
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT

STANDARD
3 BAY HIGHWAY GARAGE BUILDING
BOILER ROOM
FLOOR PLAN & SELECTED DETAILS
SCALE AS NOTED

DATE:	DESIGNED BY:	DWG. NO.
AUG. 4, '75	GUS MASTRO	H-2
DRAWN BY: S.H. MILLER	APPROVED BY: Edgar Weed	2 OF 2