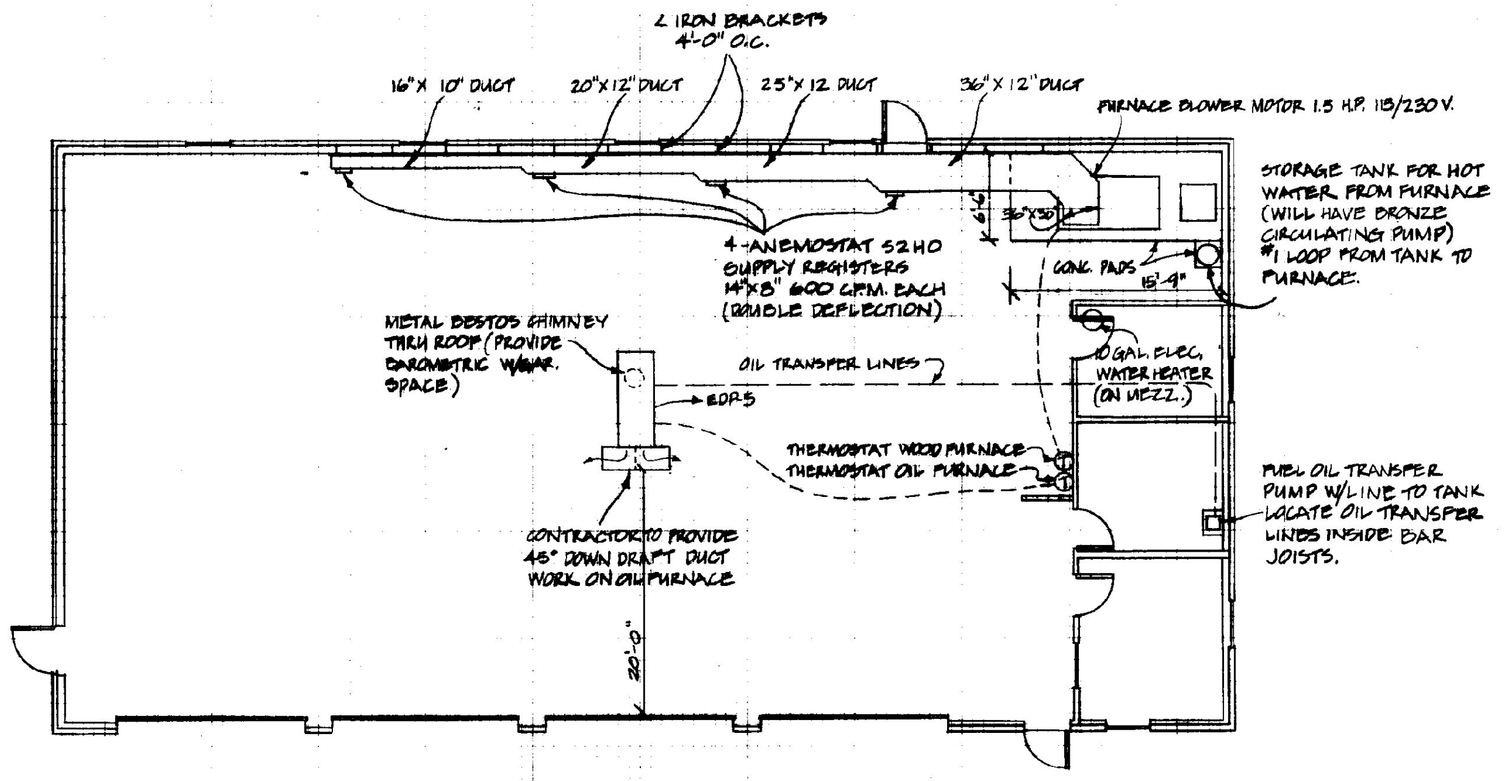
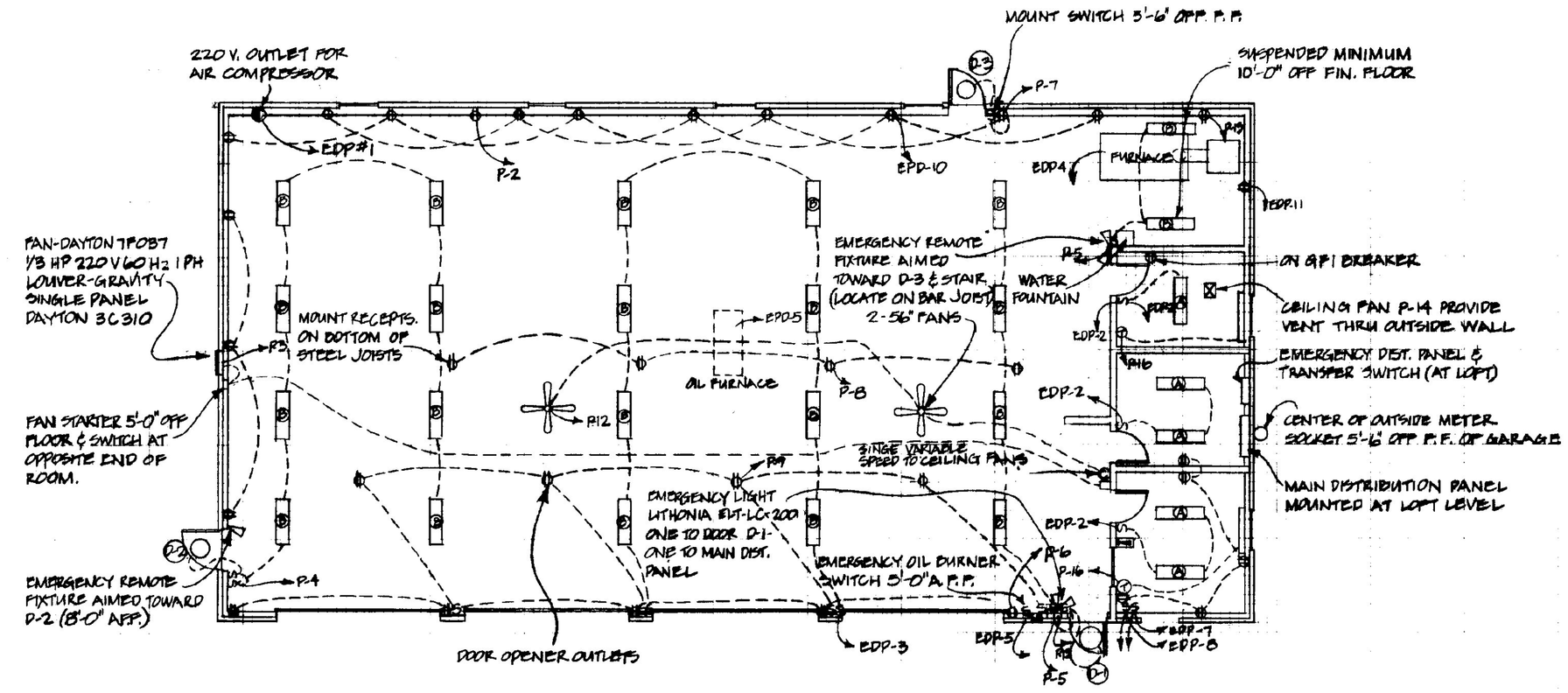
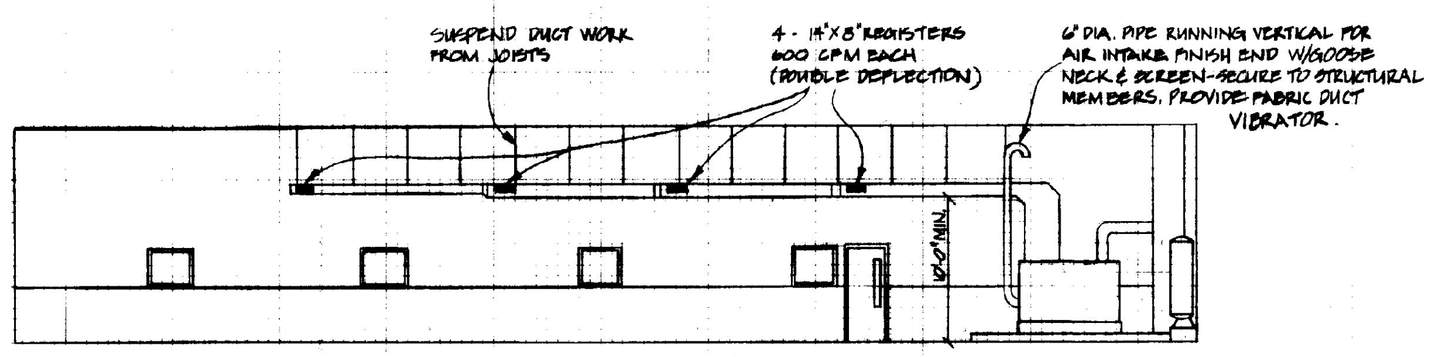


MECHANICAL PLAN
SCALE 1/8"=1'-0"

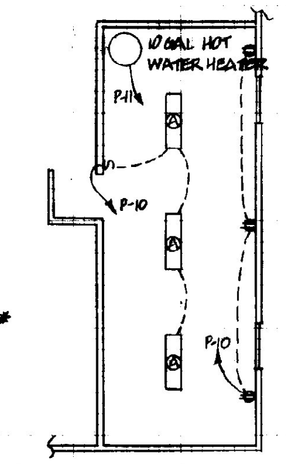
NOTE: ALL MECHANICAL JOINTS IN FUEL OIL LINE TO BE FLARED. ALL SOLDERED JOINTS TO BE SWEATED WITH SILVER SOLDERED.



ELECTRICAL PLAN
SCALE 1/8" = 1'-0"



FURNACE ELEVATION
SCALE 1/8"=1'-0"



LOFT

POWER PANEL SCHEDULE

PANEL "P1" CIRCUIT BREAKER TYPE, STYLE NQOB, SQ D 120/240V. 1Ø 3W 225 AMP MAIN W/MAIN DISCONNECT-10,000 ICR BRKS 30 POLES

CIRC.	BREAKERS AMP	BREAKERS POLE	EQUIPMENT SERVED	H.P.	REMARKS
P-1	100	2	EMERGENCY DIST. PANEL		
P-2	50	2	WELDING RECEPTACLE		4 ABOVE F.F.
P-3	20	2	BUILDING EXHAUST FAN	1/3 HP.	
P-4	20	1	SHOP LIGHTING		LITHONIA PV 240 W/PCEP TO BE SHIPPED W/ENERGY SAVING BALLAST HANG W/12" STEMS
P-5	20	1	"		
P-6	20	1	SHOP RECEPTACLES (FRONT)		
P-7	20	1	SHOP RECEPTACLES (REAR)		
P-8	20	1	MID BAY CEILING RECEPTACLES		4 LOCATIONS
P-9	20	1	DOOR OPENER RECEPTACLES		4 LOCATIONS
P-10	20	1	LOFT LIGHTING & RECEPTS		
P-11	20	1	10 GAL. HOT WATER HEATER		2" FOAM-URETHANE FOAM INSULATION
P-12	20	1	CEILING FANS		ENVIROFAN 160 P-7 56"
P-13	20	1	EMERGENCY LIGHTS		
P-14	20	1	FAN/GTI		GFI IN WALL OUTLET
P-15	20	1	FURNACE AREA RECEPTACLES		
P-16	20	1	HEATERS IN BATH & OFFICE	(3).5 KW	W/LINE VOLTAGE "T" STAT
P-17	20	1	SPARE		

ELECTRICAL NOTES:

1. TOILET CEILING FAN; CIRCUIT P-14 PROVIDE 50 CFM EXHAUST FAN, BROAN MODEL 4C37E OR APPROVED EQUAL WITH GRAVITY BACK DRAFT DAMPER TO BE CONTROLLED BY A SEPARATE WALL MOUNTED SWITCH NEXT TO THE OVERHEAD LIGHT SWITCH.
2. AIR COMPRESSOR: CIRCUIT EDP-1 PROVIDE DISCONNECT* SWITCH LOCATED ON WALL NEAR UNIT.
3. SURFACE MOUNTED EXTERIOR WALL-LIGHTS ADJACENT TO DOORS D-1, D-2, D-3 TO BE LIGHTOLIER MODEL 6780 OR APPROVED EQUAL.
4. PROVIDE EMERGENCY LIGHT BACK UNIT TO BE INSTALLED ON WALL 8'-0" AFF NEXT TO DOOR D-1 ON HEAD DIRECTED TO DOOR, ONE TO DIST. PANEL. REMOTE FIXTURE INSTALLED ON BAR JOIST ABOVE BATH RM. ONE HEAD DIRECTED TO D-3, ONE TO STAIR. SINGLE REMOTE FIXTURE LOCATED AND DIRECTED AT D-2. (8'-0" A.F.F.)
5. LOFT LIGHTS TO BE STEM MOUNTED, SUSPENDED 12".

*FUSEABLE (DUAL ELEMENT)
**SECOND LIGHT TO ELIMINATE ELECT. DIST. PANELS.

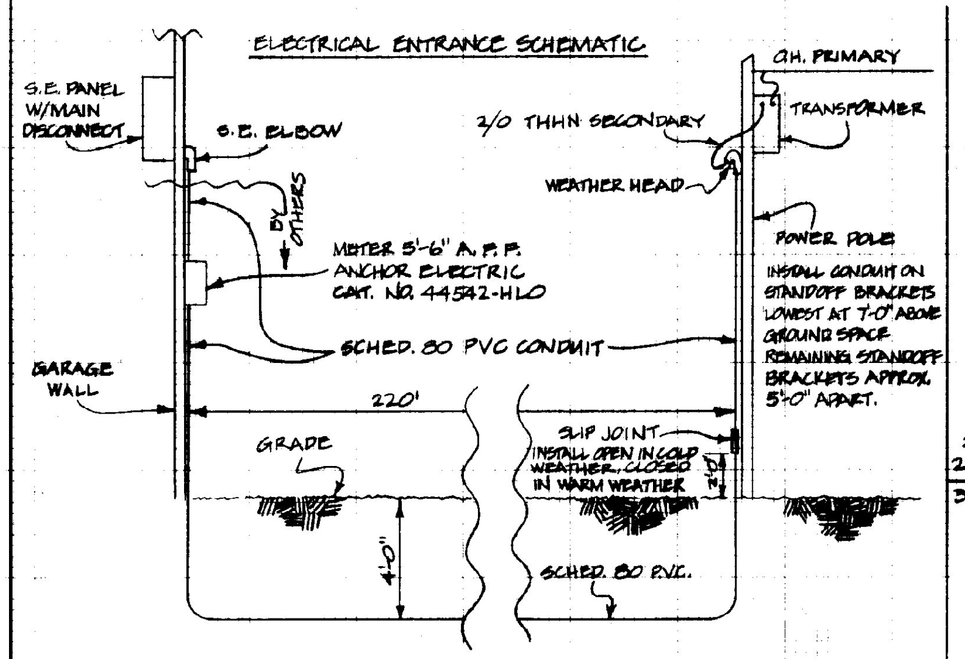
GENERAL NOTES:

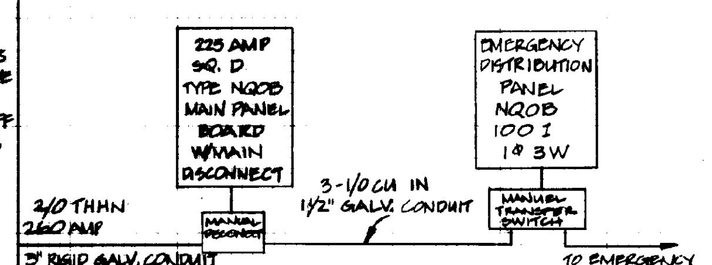
- (4) LITHONIA LB 240 A W/ENERGY SAVING BALLAST SURFACE MOUNTED
- (6) LITHONIA PV 240 W/PCEP TO BE SUPPLIED W/ENERGY SAVING BALLAST. MOUNTED ON STEMS 1" ABOVE BOTTOM OF BEAMS
- (T) THERMOSTAT-CONNECT TO CIRCUIT
- (◐) 50 AMP WELDER OUTLET
- ALLOW FOR TELEPHONE SLEEVE THRU EXTERIOR WALL-COORDINATE WITH LOCAL TELEPHONE CO.

ALL WALL OUTLETS & SWITCHES AT ALL LOCATIONS SHALL BE AT LEAST 46" OFF FLOOR (AROUND BOILER KEEP OUTLETS 4'-0" MIN. ABOVE FLOOR) ELEC. DEVISES & WIRING SHALL BE SURFACE MOUNTED.

S&B BURNER SAFETY SWITCH TO BE MOUNTED 6'-0" ABOVE FIN. FLOOR.

ALL EXPOSED WIRING SHALL BE INSTALLED IN CONDUIT GREENFIELD AT ROTATING MACHINERY.





ELECTRICAL FEEDER DIAGRAM

EMERGENCY DISTRIBUTION PANEL SCHEDULE

PANEL "EDP" CIRCUIT BREAKER TYPE, SQ. D SPLIT BUS LOAD CNTR. 20 POLE MIN. 120/240 1Ø 3WIRE 100 AMP MAIN W/MAIN BRKR. 10,000 ICR.

CIRC.	BREAKER AMP	BREAKER POLE	EQUIPMENT SERVED	H.P.	REMARKS
1	30	2	AIR COMPRESSOR	5.0	220 V. W/DISCONNECT
2	20	1	OFF/BATH/GREEDER/FURN. LTS.		
3	20	1	SHOP LIGHTING (MID-BAY)		
4	20	2	WOOD FURNACE FAN	1.5 1Ø/230	WOOD FURNACE
5	20	1	OIL BURNER		OIL FURNACE
6	20	2	SPARE		
7	20	1	FUEL PUMP-GAS		SWITCH IN OFFICE
8	20	1	FUEL PUMP-DIESEL		SWITCH IN OFFICE
9	20	1	FUEL OIL TRANSFER PUMP		
10	20	1	1 FOW REAR SHOP RECEPTS.		
11	20	1	PUMP	1/25	CIR. PUMP TO OPERATE WHEN FURNACE IS IN USE.

*PROVIDE PANEL BOARD WITH BOLT ON BREAKERS MODEL SIMILAR TO MAIN DISTRIBUTION PANEL, SIZE AND CIRCUITRY AS ORIGINALLY SPECIFIED.

STATE OF VERMONT
HERBERT J. O'BRIEN
No. 2357
REGISTERED
PROFESSIONAL ENGINEER

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

AGENCY OF TRANSPORTATION
MAINTENANCE GARAGE
EDEN, VERMONT
MECHANICAL AND ELECTRICAL

DATE: JULY 27, 1984	SCALE: AS NOTED	REVISIONS:	DWG. NO. M&E-1
DRAWN BY: A. POULIN	APPROVED BY: RA FOR DSB		13 OF 13