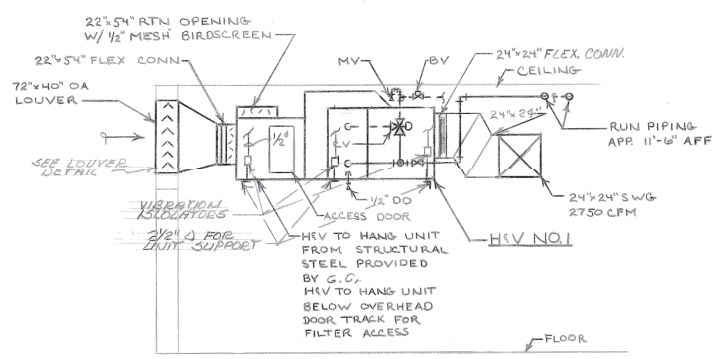
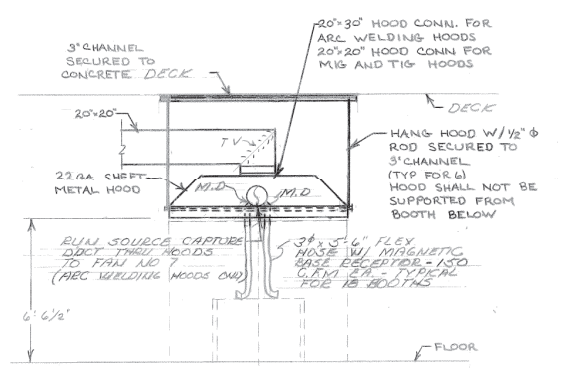
ADD. ALT. BID NO. 9 - WELDING LAB. VENT.

SHALL INCLUDE THE FOLLOWING

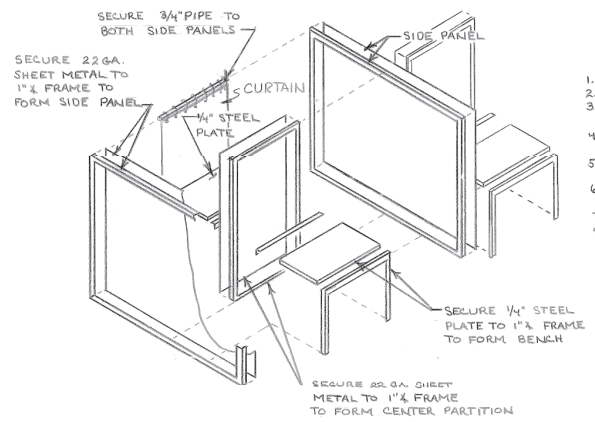
1. FILTER NOS. THRU NO.5 AND ASSOCIATED DUCTS TO THE HOODS
2. COMPRESSED AIR PIPING IN WELDING LAB.
3. THREE ARC WELDING HOODS, MIG HOOD, TIG HOOD & GALV. WELDING HOOD
4. FLEX. DUCTS & MAGNETIC BASE RECEPTORS
5. ARC WELDING BOOTHS, MIG BOOTHS, & TIG BOOTHS
6. EXHAUST FAN NO.7 & ASSO. DUCTS
7. EXHAUST FAN NO.26 & ASSO. DUCTS
8. EXHAUST FAN NO.27 & ASSO. DUCTS
9. OXY-ACET MANIFOLD PIPING



① DETAIL - H&V NO. 1
SCALE - 1/4"= 1'-0"



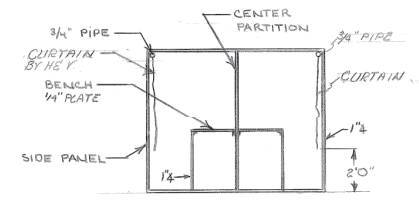
② DETAIL - WELDING HOOD RM 107
SCALE - 1/4" = 1'-0"



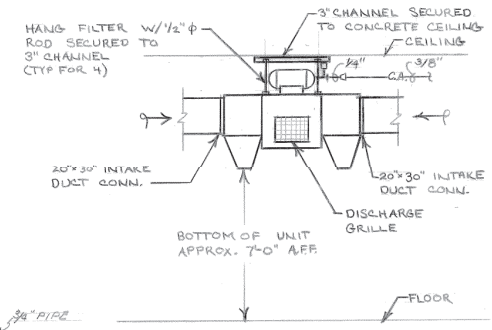
③ DETAIL - WELDING BOOTH FABRICATION
NO SCALE

WELDING BOOTH DIMENSION AND FABRICATION NOTES

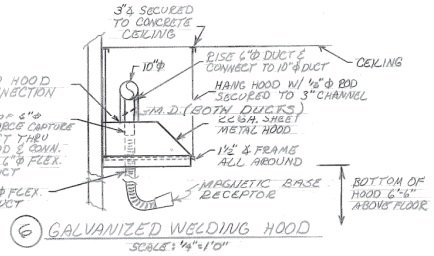
1. SIDE PANELS APPROX. 8'-0" W x 6'-6" H
2. CENTER PARTITION APPROX. 3'-6" L x 6'-6" H
3. BENCH APPROX. 3'-6" L x 2'-0" DEEP x 34" ABOVE FLOOR
4. ALL MATERIAL TO BE PROVIDED W/ ONE COAT FLAT BLACK PAINT
5. SECURE TWO SIDE PANELS TO CENTER PARTITION TO FORM TWO BOOTHS.
6. SECURE BENCHES TO CENTER PARTITION
7. SECURE BOOTH TO FLOOR
8. BOOTH SHALL NOT SUPPORT HOOD ABOVE.
9. CURTAIN SHALL BE FLAME RETARDANT, SELF EXTINGUISHING CANVAS DUCK.



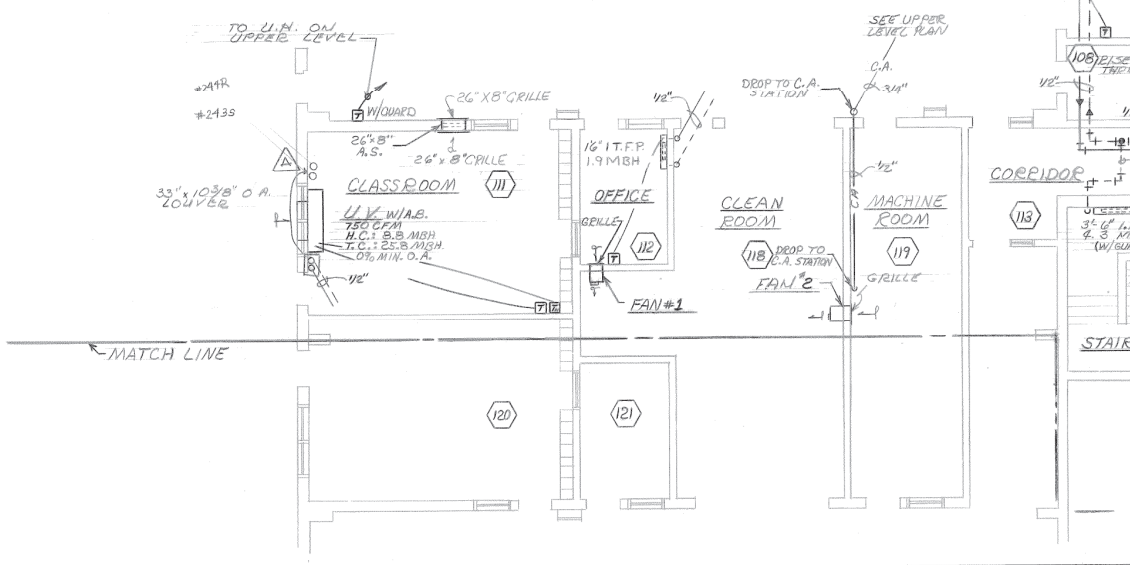
④ ELEVATION - WELDING BOOTH
SCALE - 1/4" = 1'-0"

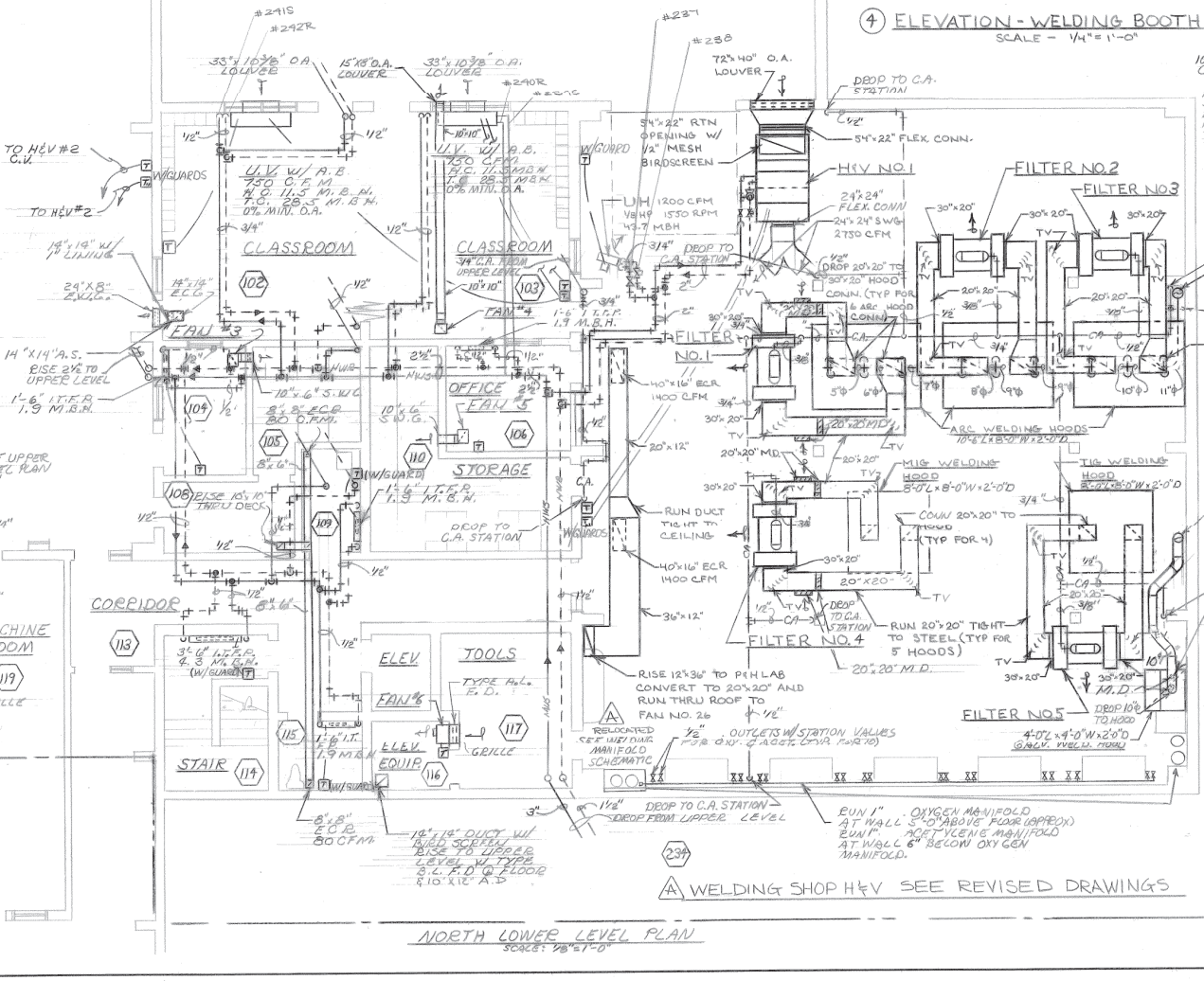


⑤ DETAIL - FILTER HANGING
SCALE - 1/4" = 1'-0"



⑥ GALVANIZED WELDING HOOD
SCALE: 1½"=1'-0"





A WELDING SHOP H&V SEE REVISED DRAWINGS

⑦ WELDING MANIFOLD SCHEMATIC
NO SCALE

NORTH LOWER LEVEL PLAN
SCALE: 1/8"=1'-0"

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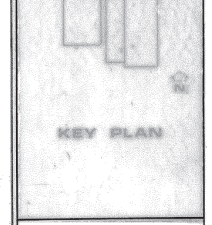
PRESQUE ISLE MAINE

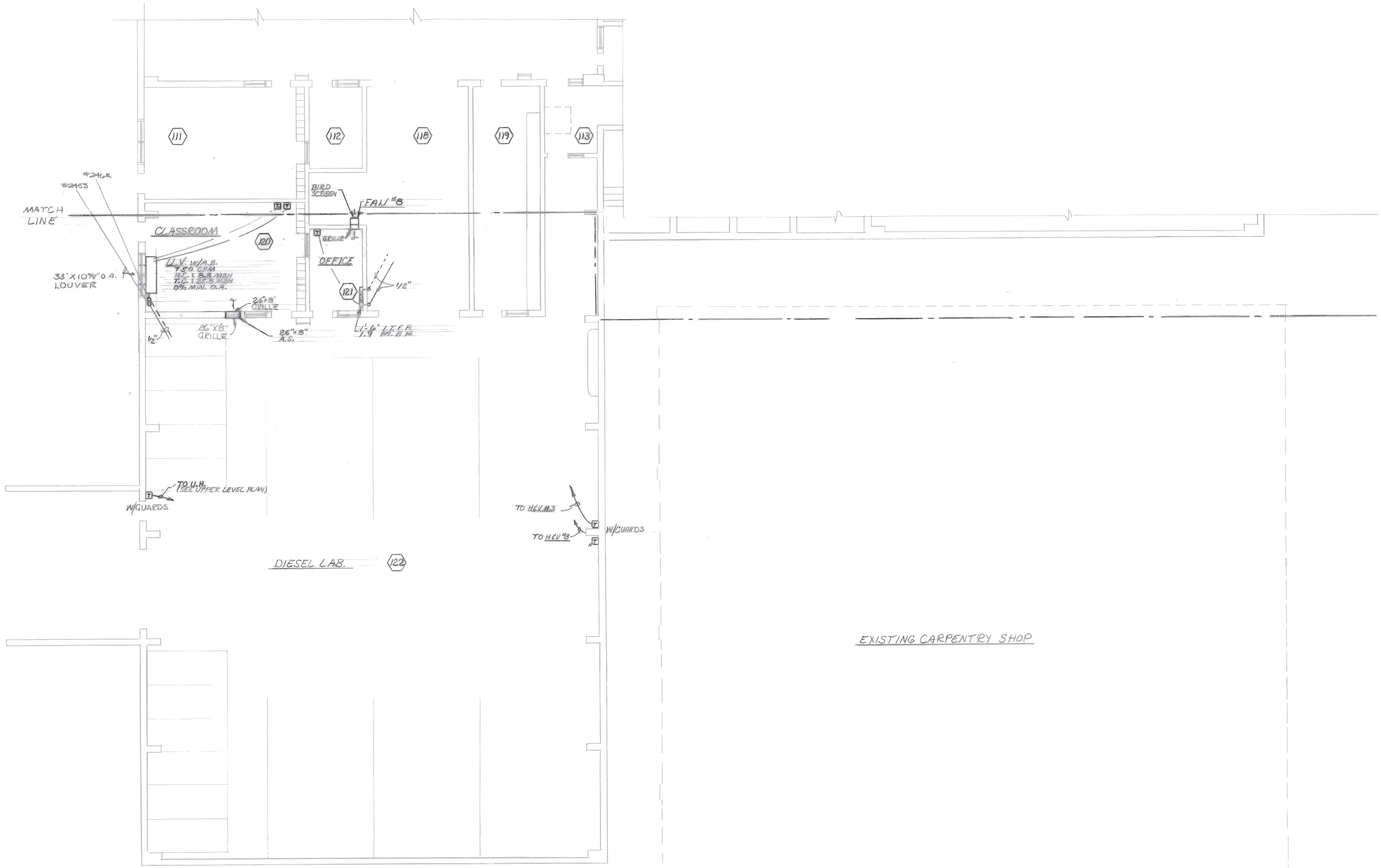


NO.	REVISION	DATE
A	AS-BUILT	5-4-83

DESIGNER	
ENGINEER	MEF
DRAWN BY	RCP
CHECKED BY	MEF
DATE:	JUNE 1, 1981

NORTH LOWER LEVEL PLAN

HV1



SOUTH LOWER LEVEL PLAN

SCALE: 1/8"=1'-0"

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PRESQUE ISLE MAINE

KEY PLAN

NO.	REVISION	DATE

DESIGNER	
ENGINEER	RHB
DRAWN BY	RHB
CHECKED BY	MEF
DATE:	JUNE 1, 1981

SOUTH LOWER LEVEL PLAN

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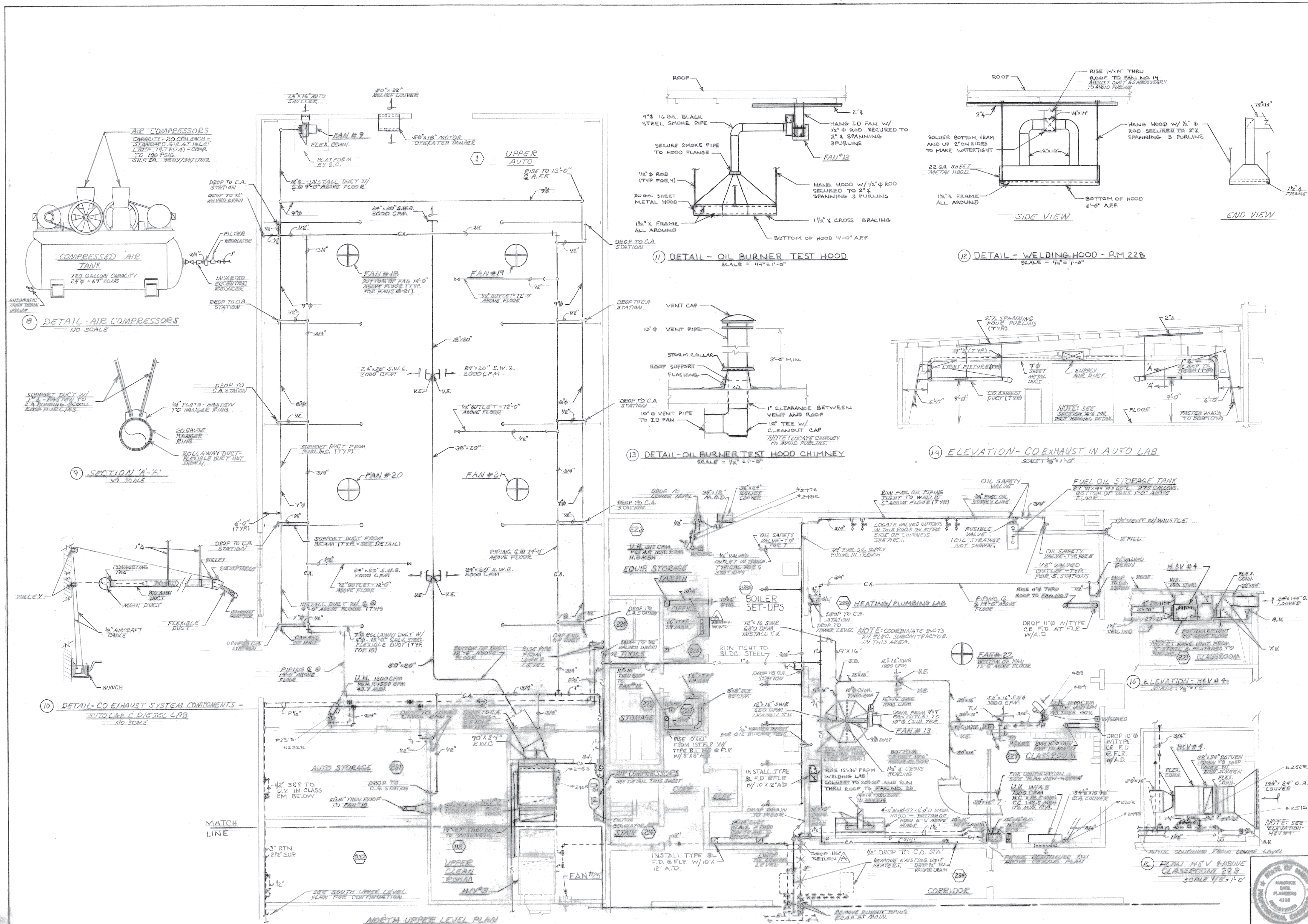
HV2



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KEY PLAN

NO.	REVISION	DATE
A	AS-BUILT	5-4-83

DESIGNER	
ENGINEER	
DRAWN BY	
CHECKED BY	
DATE: JUNE 1, 1981	

NORTH UPPER LEVEL PLAN

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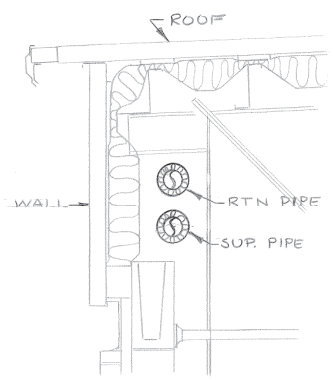
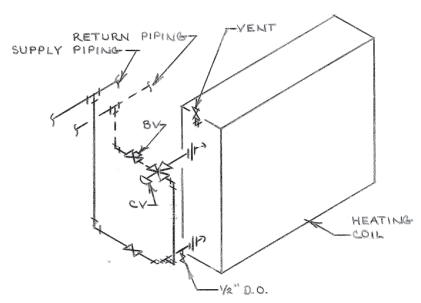
HV3

MILLER BLUE PRINT CO., INC. 19143

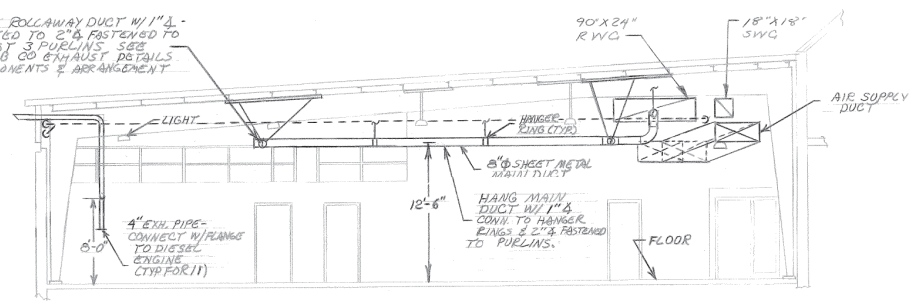


(17) SECTION A-A
NO SCALE

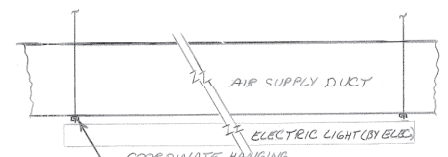
(18) DETAIL: EXHAUST PIPE SLEEVE
NO SCALE



(19) DETAIL - TYPICAL HEATING COIL PIPING
NO SCALE



(21) SECTION IN DIESEL LAB
SCALE: ⅛"=1'-0"



(22) ELEVATION - AIR SUPPLY DUCT
SCALE: ½"=1'-0"

SOUTH UPPER LEVEL PLAN
SCALE: ⅛"=1'-0"

(20) ELEVATION - H&V #2 & 3 IN MECH. ROOM #233
SCALE: ¼"=1'-0"

NOTE -
PROVIDE COMPRESSED AIR STATIONS WITH QUICKCONNECTS

ADD. ALT. BID NO. ~~5~~ 6

ADD ALT. BID NO. 6 SHALL INCLUDE:
1. DAY/NIGHT CONTROLS FOR U.V. IN CLASSROOMS C4 & C5
2. RELIEFS FROM CLASSROOMS C4 & C5
3. NEW RADIATION IN ROOMS C1 & C2
4. FAN #16 & #17 IN ROOMS C1 & C2

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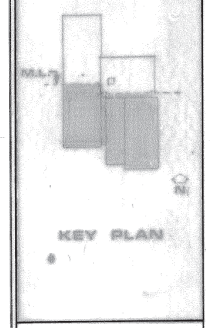


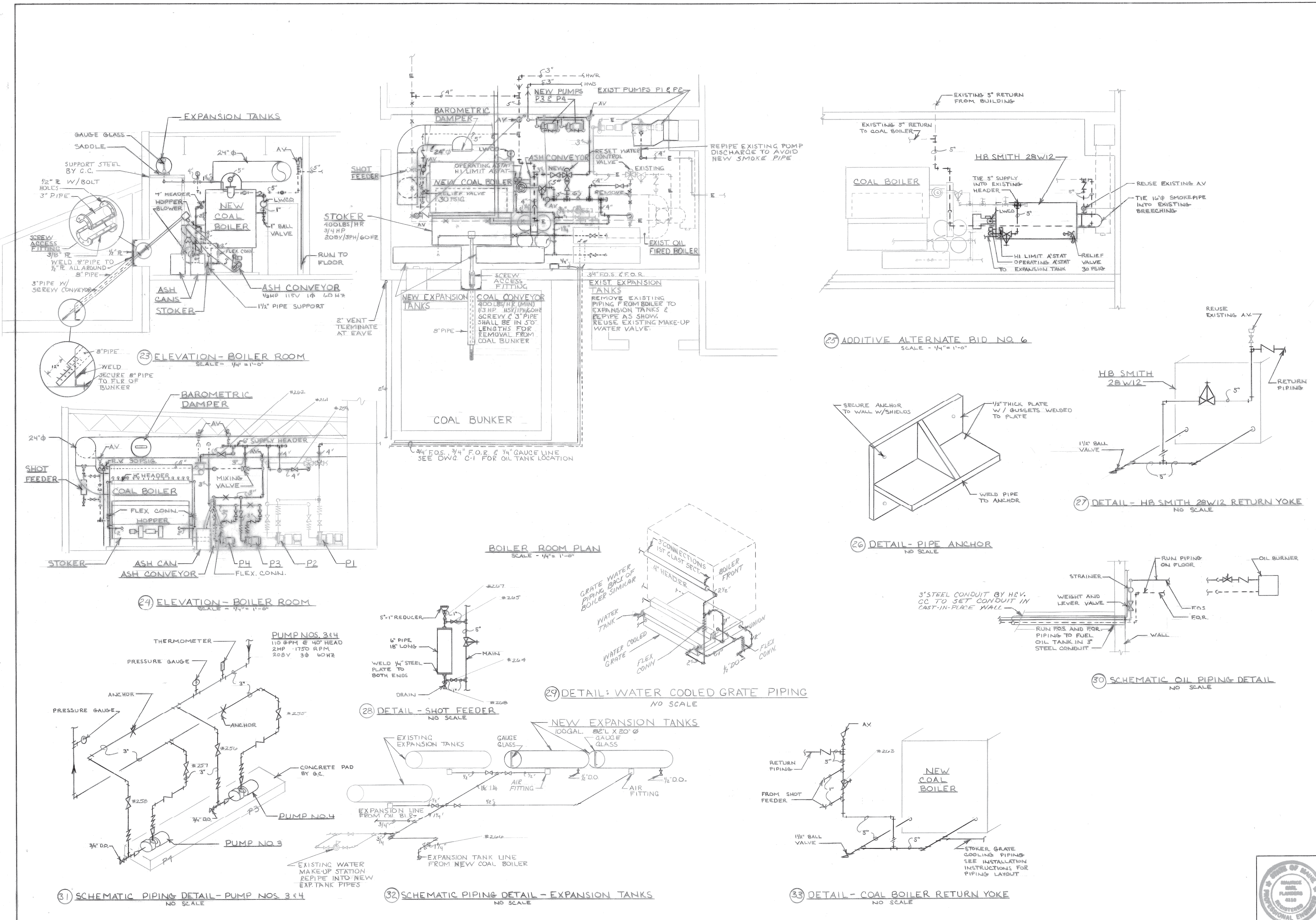
NO.	REVISION	DATE

DESIGNER	
ENGINEER	RHB
DRAWN BY	RHB
CHECKED BY	MEF
DATE:	JUNE 1, 1981

SOUTH UPPER LEVEL PLAN

STATE OF MAINE MAURICE EARL FLANDERS 4118 REGISTERED PROFESSIONAL ENGINEER

HV4



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PRESQUE ISLE MAINE

KEY PLAN

NO.	REVISION	DATE

DESIGNER	
ENGINEER	RHB
DRAWN BY	RCP
CHECKED BY	MEF
DATE: JUNE 1, 1981	

BOILER ROOM PLAN AND DETAILS

HV5

MILLER BLUE PRINT CO., INC. 19143

FAN SCHEDULE

FAN NO.	SERVES	CFM	S.P.	RPM	HP	VOLT	TYPE	REMARKS
1	RM 112	140	1/8	930	1/6	120	WALL	
2	RM 119	375	1/8	1050	1/6	120	WALL	
3	RM 104	140	1/8	930	1/6	120	CEILING	
4	RM 103	250	3/8	1050	1/6	120	CEILING	
5	RM 106	140	1/8	930	1/6	120	CEILING	
6	RM 116	800	1/4	1050	1/2	120	WALL	
7	RM 107	3500	5	—	5	480-3ϕ	UTILITY	BI
8	RM 121	140	1/8	930	1/6	120	WALL	
9	RM 101	2200	3 3/4	2530	3	480-3ϕ	UTILITY	BI /ASPHALTUM
10	RM 118	1000	1/4	1530	1/6	120	ROOF	
11	RM 224	140	1/8	930	1/6	120	CEILING	
12	TOILETS	280	1/2	1100	1/6	120	ROOF	
13	RM 228	1200	1/2	1074	1/3	120	ID FAN	
14	RM 228	1950	3/8	950	1/4	120	ROOF	
15	RM 122	1875	3	2235	1 1/2	480-3ϕ	UTILITY	BI /ASPHALTUM
16	RM C-2	140	1/8	930	1/6	120	CEILING	
17	RM C-1	250	3/8	1050	1/6	120	CEILING	
18-24	RM 101, 122, 228	18000	0	215	1/6	120	HEAT	TWO SPEED
25	RM 233	1410	1/8	1140	1/8	120	PROP.	
26	RM 107	2790	3/8	835	1/2	120	ROOF	
27	RM 107	1600	2	2136	1	480-3ϕ	UTILITY	BI

HEATING AND VENTILATING UNIT SCHEDULE

(MOTORS 480V, 3ϕ, 60 HZ)

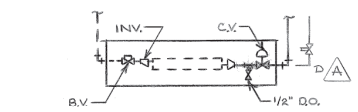
UNIT NO.	SERVES	CFM	ESP	RPM	HP	COIL CAPACITY				OUTLET VEL. (FPM)	COIL FACE VEL. (FPM)	REMARKS
						E.A.T.	L.A.T.	E.W.T.	L.W.T.			
1	RM 107	5500	.25	624	2	-30°F	80°F	210°F	170°F	1335	470	EXT FACE & BYPASS
2	RM 101	10000	.35	878	5	42°F	85°F	210°F	170°F	1812	615	EXISTING UNIT W/ NEW MOTOR
3	RM 122	10000	.30	815	5	42°F	80°F	210°F	170°F	1812	615	EXISTING UNIT W/ NEW MOTOR
4	RM 228	6300	.15	449	2	42°F	80°F	210°F	170°F	1252	456	

ABBREVIATIONS

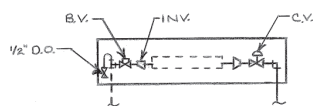
ACET	ACETYLENE
AV	AUTOMATIC VENT
BV	BALANCING VALVE
CV	CONTROL VALVE
DO	DRAW OFF
EAT	ENTERING AIR TEMP.
ECR	EXHAUST CEILING REGISTER
ESP	EXTERNAL STATIC PRESSURE
EWG	EXHAUST WALL GRILLE
EWR	EXHAUST WALL REGISTER
EWT	ENTERING WATER TEMP.
FLEX CONN	FLEXIBLE CONNECTION
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FD	FIRE DAMPER
GC	GENERAL CONTRACTOR
HC	HEATING CAPACITY
HV	HEATING AND VENTILATING
INV	INVERTED REDUCER
ID	INDUCED DRAFT
ITFP	ONE TIER FINNED PIPE
LAT	LEAVING AIR TEMP.
LWCO	LOW WATER CUT OFF
LWT	LEAVING WATER TEMP.
MD	MANUAL DAMPER
MOD	MOTOR OPERATED DAMPER
MV	MANUAL VENT
OA	OUTSIDE AIR
OC	ON CENTER
OS&Y	OUTSIDE SCREW & YOKE
OXY	OXYGEN
RWG	RETURN WALL GRILLE
SP	STATIC PRESSURE
SWG	SUPPLY WALL GRILLE
SWR	SUPPLY WALL REGISTER
TC	TOTAL CAPACITY
TV	TURNING VANES
UH	UNIT HEATER
UV	UNIT VENTILATOR
VE	VOLUME EXTRACTOR
CA	COMPRESSED AIR
BI	BACKWARD INCLINED
AS	AUTO SHUTTER

SYMBOLS

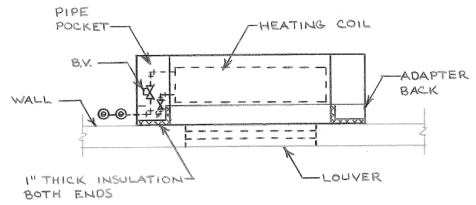
- HOT WATER SUPPLY PIPING
- HOT WATER RETURN PIPING
- —E— EXISTING HOT WATER SUPPLY PIPING
- --E-- EXISTING HOT WATER RETURN PIPING
- PIPING TO BE REMOVED
- —D— DRAIN PIPING
- —G— OIL GAUGE LINE
- DROP IN LINE
- RISE IN LINE
- DROP FROM MAIN 45°
- DROP INTO MAIN 45°
- —FOS— FUEL OIL SUPPLY PIPING
- —FOR— FUEL OIL RETURN PIPING
- GATE VALVE
- GLOBE VALVE
- CONTROL VALVE (2 WAY)
- CONTROL VALVE (3 WAY)
- CHECK VALVE
- BALANCING VALVE
- RELIEF VALVE
- FUSIBLE VALVE
- WATER MAKE UP VALVE
- THERMOMETER
- ANCHOR
- INVERTED REDUCER
- REDUCING COUPLING
- PRESSURE GAUGE
- THERMOSTAT
- NIGHT THERMOSTAT
- UNION
- CROSS SECTION OF PIPE
- FLEXIBLE PIPE CONNECTION
- FLEXIBLE DUCT CONNECTION
- DUCT W/ LINING
- SUPPLY DUCT SECTION
- EXHAUST DUCT SECTION
- —CA— COMPRESSED AIR PIPING



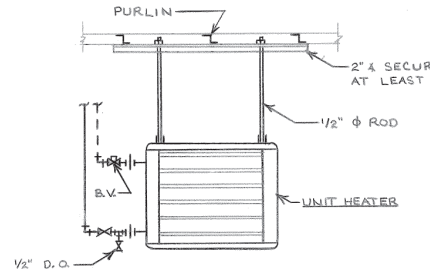
34 DETAIL - FINNED PIPE 1 TIER DOWNFEED
NO SCALE



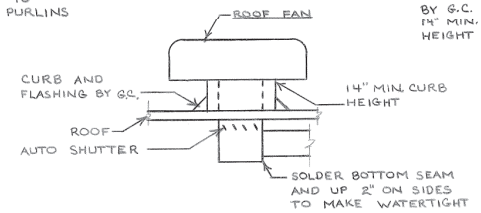
35 DETAIL - FINNED PIPE 1 TIER UPFEED
NO SCALE



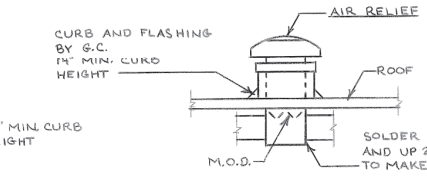
36 DETAIL - UNIT VENTILATOR SETTING
NO SCALE



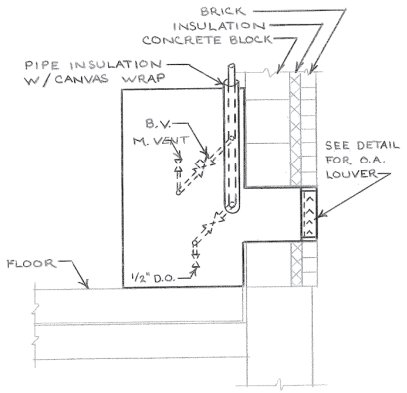
37 DETAIL - HORIZONTAL UNIT HEATER
NO SCALE



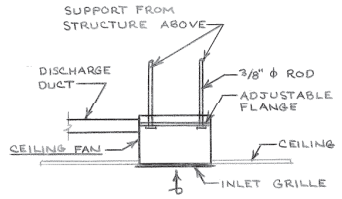
38 DETAIL - ROOF FAN
NO SCALE



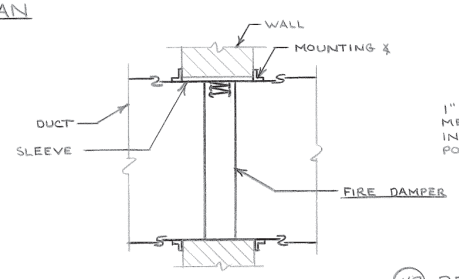
39 DETAIL - AIR RELIEF
NO SCALE



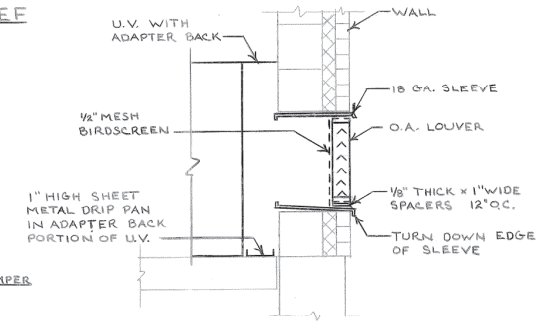
40 DETAIL - UNIT VENTILATOR
NO SCALE



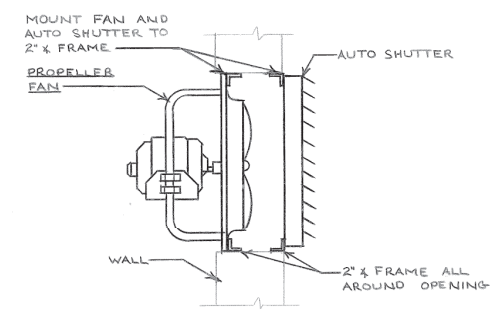
41 DETAIL - CEILING FAN
NO SCALE



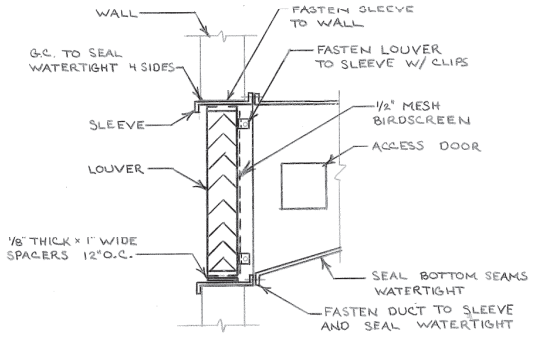
42 DETAIL - FIRE DAMPER TYPE "A1"
NO SCALE



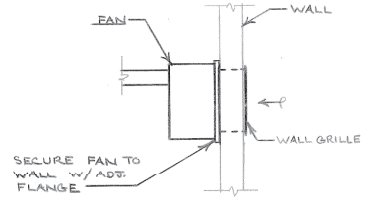
43 DETAIL - UNIT VENTILATOR O.A. LOUVER
NO SCALE



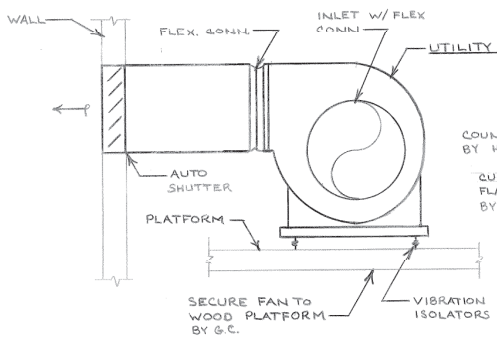
44 DETAIL - PROPELLER FAN
NO SCALE



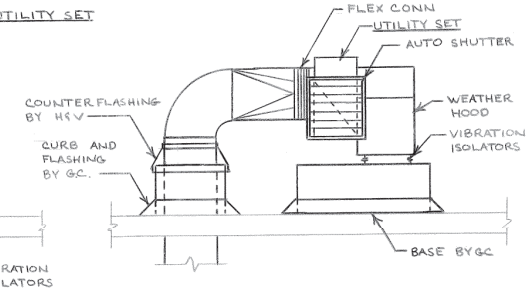
48 DETAIL - O.A. LOUVER
NO SCALE



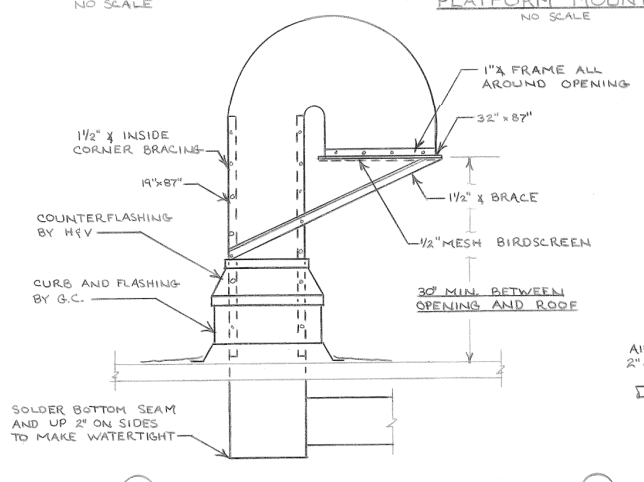
45 DETAIL - WALL FAN
NO SCALE



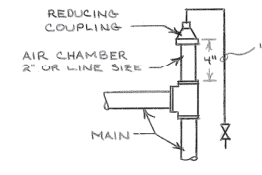
46 DETAIL - UTILITY SET PLATFORM MOUNTED
NO SCALE



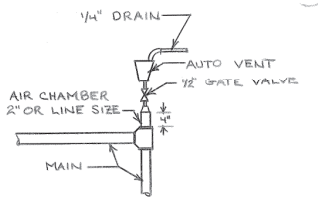
47 DETAIL - UTILITY SET ROOF MOUNTED
NO SCALE



49 DETAIL - GOOSENECK
NO SCALE



57 DETAIL - MANUAL VENT
NO SCALE

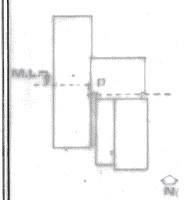


50 DETAIL - AUTOMATIC VENT
NO SCALE

STATE OF MAINE
MAURICE EARL FLANDERS
4118
REGISTERED PROFESSIONAL ENGINEER

webster baldwin day rohman
architects engineers
bangor · maine
1494

N.M.V.T.I. SHOP
PRESQUE ISLE MAINE

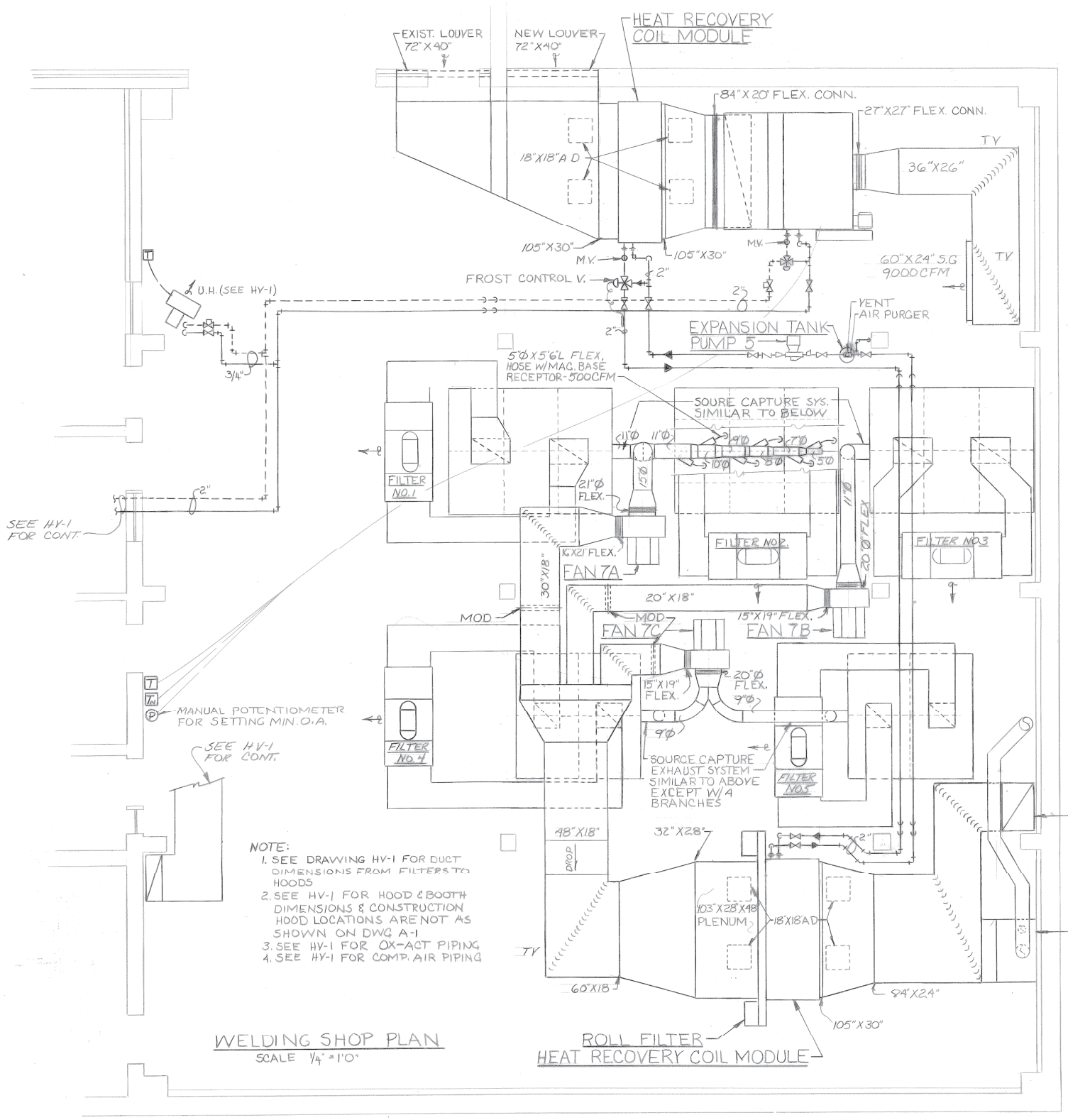


NO.	REVISION	DATE
A	AS-BUILT	5-7-83

DESIGNER	
ENGINEER	RHB
DRAWN BY	RCP
CHECKED BY	MEF
DATE:	JUNE 1, 1981

SCHEDULES AND DETAILS

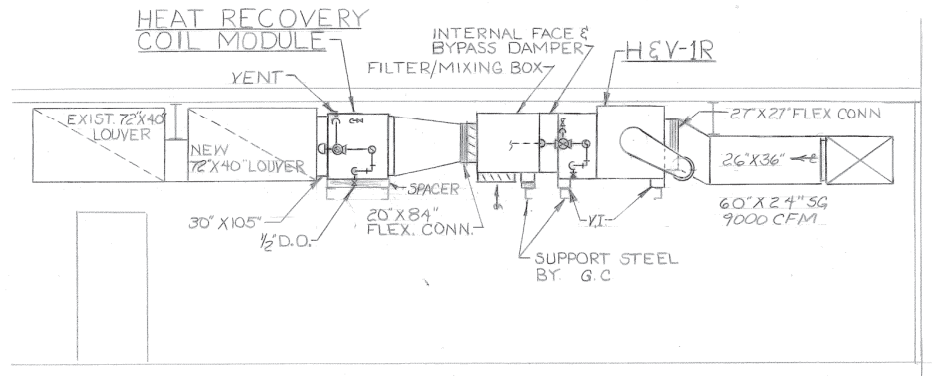
HV6



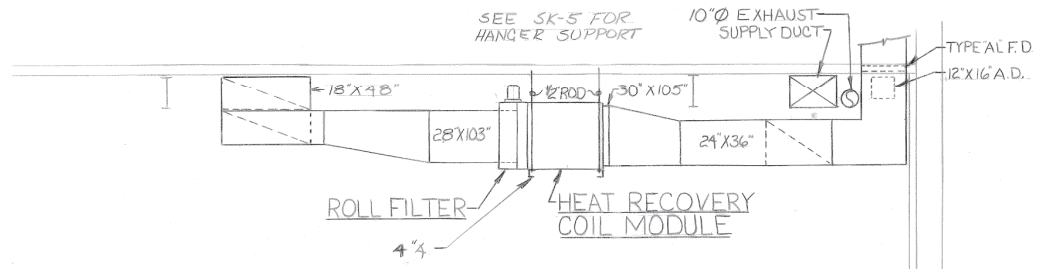
NOTE:
1. SEE DRAWING HV-1 FOR DUCT DIMENSIONS FROM FILTERS TO HOODS
2. SEE HV-1 FOR HOOD & BOOTH DIMENSIONS & CONSTRUCTION HOOD LOCATIONS ARE NOT AS SHOWN ON DWG A-1
3. SEE HV-1 FOR OX-ACT PIPING
4. SEE HV-1 FOR COMP. AIR PIPING

WELDING SHOP PLAN
SCALE 1/4" = 1'0"

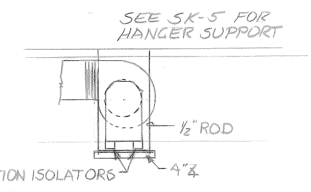
ROLL FILTER
HEAT RECOVERY COIL MODULE



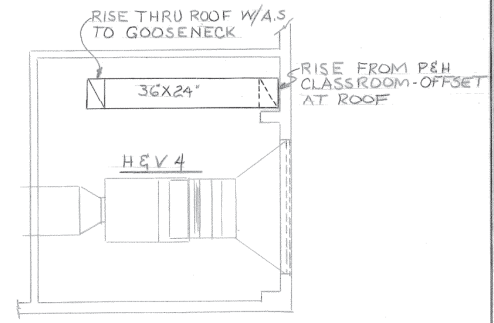
ELEV: H&V 1R
SCALE: 1/4" = 1'0"



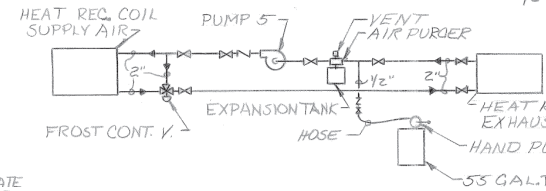
ELEV: HEAT RECOVERY COIL
SCALE: 1/4" = 1'0"



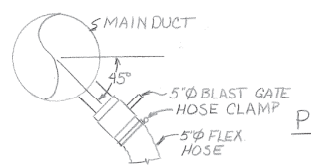
DETAIL: EXHAUST FAN HANGING.
NO SCALE



PLAN: MECH. RM ABOVE CLASSROOM 229
SCALE: 1/8" = 1'0"



PIPING SCHEMATIC: HEAT RECOVERY SYSTEM



DETAIL: SOURCE CAPTURE BRANCH NO SCALE

Signed approval of these plans by the Director of the Bureau of Public Improvements does not imply a guarantee as to the accuracy or adequacy of the design or the design details. Such design and design details are the responsibility of the designer.

Approved
Director, Bureau of Public Improvements
3-16-82

STATE OF MAINE — REGISTERED PROFESSIONAL ENGINEER

MATERIAL

1. H & V - 1R:

   9000 CFM, 1½" E.S.P., 710 RPM, 7½ HP, 480 V/3 PH
   Heating Coil: E.A.T. = 0°F, L.A.T. = 80°F, E.W.T. = 210°F, L.W.T. = 170°F
   Equal to: Trane No. 17 Horizontal Climate Changer with internal face and by-pass dampers, modified Type 'W' coil, filter/mixing box with low leak dampers and vibration isolators.

2. Heat Recovery Coil Modules (2):

   9000 CFM, 0.75" W.G. Max. air pressure drop, 37 gpm of 50% glycol water solution, 10 ft. maximum water preddure drop, 313 MBH recovery.
   Exhaust Coil: E.A.T. = 70°F @ 20% R.H., 9000 CFM, F.V. = 440 FPM
   Supply Coil: E.A.T. = -30°F, 9000 CFM, F.V. = 440 FPM
   Equal to: Trane No. 21 coil module with six row Type 'W' coil.

3. Frost Control Valve:

   Equal to Powers No. 11 3-way mixing valve with 10°F to 60°F set point range.

4. Roll Filter:

   Equal to Trane RF-21 with automatic pressure drop filter media control advance. Direct connect to exhaust coil module inlet. Provide spare roll of filter media.

5. Exhaust Fan 7A.

   6000 CFM, 6" W.G. - E.S.P., 2160 RPM, 10 HP, 480V/3 PH.
   Equal to: Twin City Fan & Blower No. 200 SWSI BCV, Class II, Arrangement 10 Fan.

6. Exhaust Fan 7B:

   3000 CFM, 5" W.G.-E.S.P., 2020 RPM, 5 HP, 480V/3 HP.
   Equal to Twin City Fan & Blower No. 182 SWSI, BCV, Class I, Arrangement 10 Fan.

7. Exhaust Fan 7C:

   4000 CFM, 5" W.G. - E.S.P., 2100 RPM, 5 HP, 480V/3 HP.
   Use Twin City Fan Designated Fan No. 7, provide new belts and pulleys to exhaust higher air flow.

8. Pump No. 5:

   40 GPM @ 30 ft. HD. 1750 RPM, 3/4 HP, 480V/3 HP
   Equal to: Bell & Gossett Series 60, 1½A.

9. Expansion Tank:

   Equal to Amtrol, Extrol MOD. 30 with 2" mod. 446 air purger and #700 vent.

10. Relief Valve:

    Equal to B & G No. 750, 30 PSIG, CAP = 750 MBH.

11. Flexible Hose & Receptor:

    As specified in Section 1562.37, Para. T except 5" in diameter.

12. Blast Gates:

    A blast gate shall be installed in each source capture branch duct as shown in detail. Equal to Car-Mon Products BG-5.

13. Exhaust Ducts (Source Capture System)

    Ducts on suction side of Fans 7A, 7B and 7C shall be round with all joints soldered air tight. Ducts on discharge of fans shall have all joints sealed air tight, including joints on discharge side of coil module.

14. Temperature Control:

    A. Provide motor operated dampers in the discharge duct of Fans 7A, 7B and 7C where shown on the revised plan of the Welding Shop. Dampers shall be low leak design allowing no more than 15 CFM/FT² leakage at 1" W.G. Damper shall open when its respective fan starts.

    B. H & V-1R shall be controlled as specified in Section 1562.39 C.6., except a manual potentiometer shall be provided to set the minimum outside air of the unit. Locate potentiometer on wall next to thermostats.

15. Insulation:

    Heat recovery piping shall be insulated with 1" fiberglass insulation as specified in Section 1562.34. All butt ends shall be covered with 4" straps of same jacket material. All joints shall be vapor sealed with mastic. Fittings and valves shall be covered with insulation and sealed with mastic.

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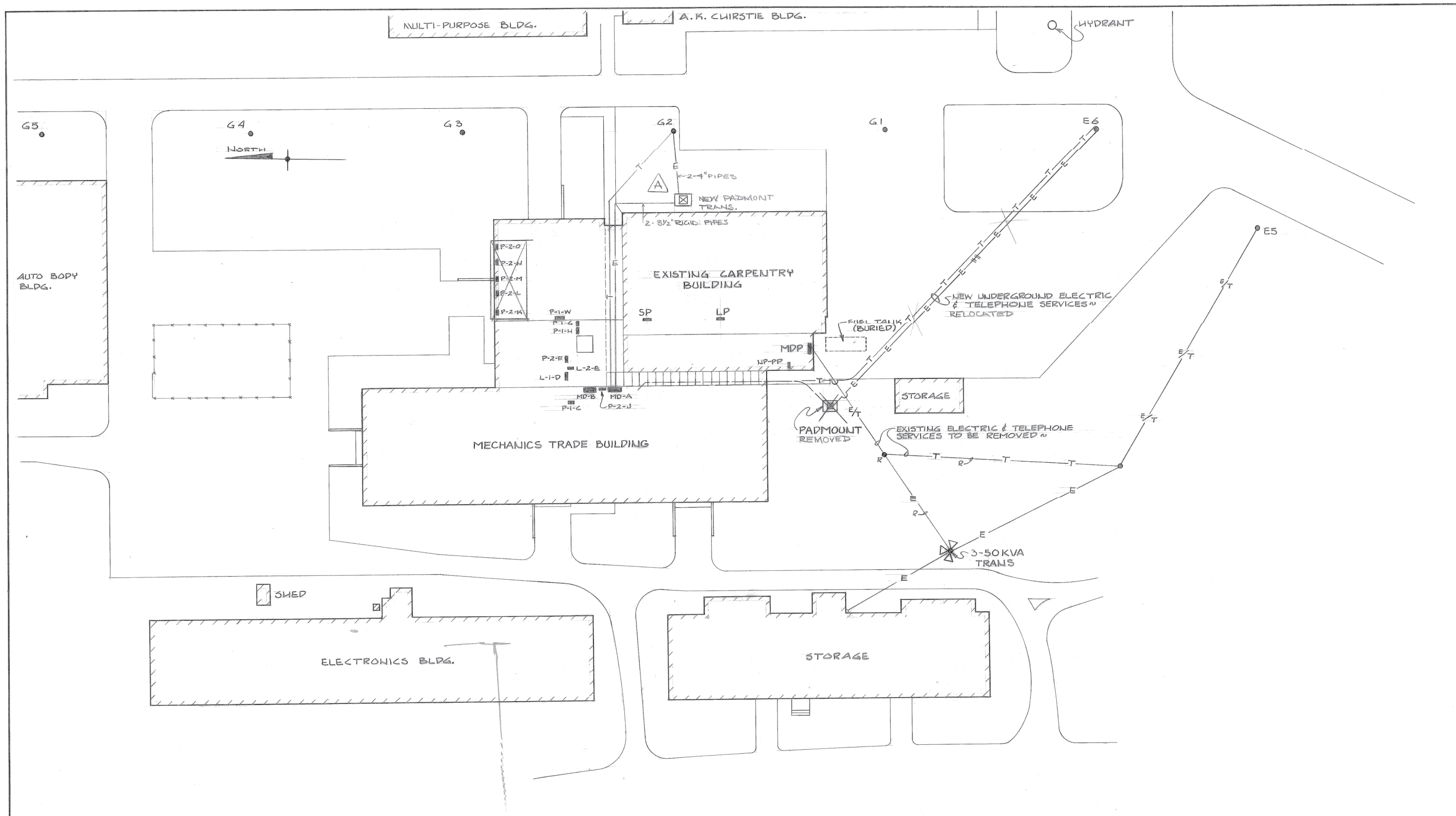
N.M.V.T.I. SHOP
PRESQUE ISLE, MAINE

KEY PLAN

NO.	REVISION	DATE

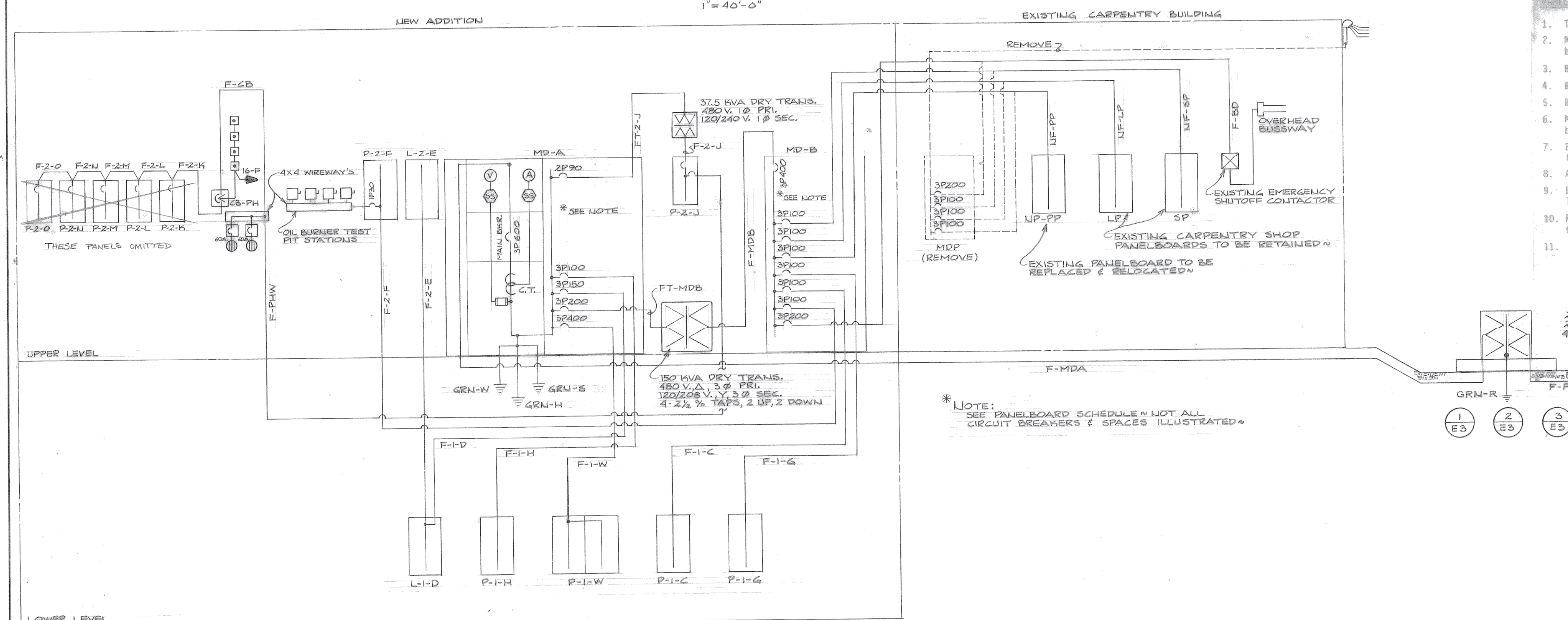
DESIGNER	MEF
ENGINEER	MEF
DRAWN BY	MEF
CHECKED BY	
DATE:	1/22/82

REVISED WELDING SHOP VENTILATION



ELECTRICAL SITE PLAN

1" = 40'-0"



500 KVA PADMOUNT TRANSFORMER
2400/4160 V., Y PRIMARY
277/480 V., Y SECONDARY
4-2½% TAPS, 2 UP, 2 DN.

* NOTE:
SEE PANELBOARD SCHEDULE~ NOT ALL CIRCUIT BREAKERS & SPACES ILLUSTRATED~

RISER DIAGRAM

NOT TO SCALE

SERVICE & DISTRIBUTION FEEDERS & PANELBOARD SCHEDULE

PANELBOARD D'S'G'N	PANELBOARD MTG	BRANCH CIRCUIT BREAKERS USED	SPARE	SPACE	POLE	AMPS	TOTAL BKR'S	TOTAL POLES	MAINS AMPS	ENTRY	PH	WIRE	VOLTS	SUPPLY FEEDERS D'S'G'N	NO. WIRE	SIZE WIRE	INSUL'N	CONDUIT	SUB FEED LUGS	NOTES
P-1-C	FLUSH	26 2 1	6 0 0	0 0 1	1 2 3	20 20 30	32 2 1	32 4 6	100	LUGS	3	4	120/208	F-1-C	4	#2	XHHW	1¼"	NO	(1)(2)(3)
L-1-D	FLUSH	17 1	4 0	9 1	1 3	20 15	21 1	30 6	150	LUGS	3	4	277/480	F-1-D	4	1/0	XHHW	1½"	YES	(1)(2)(4)
L-2-E	FLUSH	7 4 3	5 0 1	0 0 2	1 3 3	20 15 20	12 4 4	12 12 18	150	LUGS	3	4	277/480	F-2-E	4	1/0	XHHW	1½"	NO	(2)(4)(5)
P-2-F	FLUSH	17 1 1	4 2 1	3 3 4	1 1 2	20 30 20	21 3 2	24 6 12	100	LUGS	3	4	120/208	F-2-F	4	#2	XHHW	1¼"	NO	(2)(3)(5)
P-1-G	FLUSH	28 2	6 0	0 2	1 2	20 20	34 2	34 8	100	LUGS	3	4	120/208	F-1-G	4	#2	XHHW	1¼"	NO	(1)(2)(3)
P-1-H	FLUSH	6 7	1 0	3 3	3 3	15 50	1 1	30 12	100	LUGS	3	4	277/480	F-1-H	4	#2	XHHW	1¼"	NO	(1)(2)(4)
P-2-J	SURF.	2 4	0 0	2 4	2 2	30 100	2 4	8 16	150	C.B. 150 A.	1	3	120/240	F-2-J	3	1/0	XHHW	1¼"	NO	(1)(2)(3)
P-1-W	FLUSH	8 26	0 3	0 3	2 2	40 50	8 29	16 64	400	LUGS	3	4	277/480	F-1-W	4	500 MCM	XHHW	3"	YES	(1)(4)(6)
LP	SURF.	18 1 1	0 0 0	0 0 0	1 3 3	20 20 45	18 1 1	18 3 3	100	LUGS	3	4	120/208	NF-LP	4	#2	XHHW	1¼"	NO	(7)
SP	SURF.	10 1	4 0	0 1	1 2	20 20	14 1	14 4	100	LUGS	3	4	120/208	NF-SP	4	#2	XHHW	1¼"	NO	(7)(8)
NP-PP	SURF.	5 4 2 1	7 0 0 0	0 0 3 0	1 3 3 3	20 15 20 50	12 4 2 1	12 12 15 3	100	LUGS	3	4	120/208	NF-PP	4	#2	XHHW	1¼"	NO	(1)(2)(3)(9)
BUSS-WAY	SUSP.	—	—	—	—	—	—	—	200	LUGS	3	4	120/208	F-BD	4	3/0	XHHW	2"	NO	(10)
P-2-K	SURF.	0 0	6 1	0 2	1 2	20 20	6 1	6 6	60	C.B. 60 A.	1	3	120/240	F-2-K	3	#6	XHHW	¾"	NO	(1)(11)
P-2-L P-2-M P-2-N P-2-O	SURF. SURF. SURF. SURF.	PANELS L, M, N, & O ARE THE SAME AS P-2-K												F-2-L F-2-M F-2-N F-2-O						(1)(11) (1)(11) (1)(11) (1)(11)
CB-PH	SURF.	1	—	—	2	60	1	2	60	C.B.	1	3	120/240	F-CB F-PHW	3 3	#2 #2	XHHW XHHW	1¼" 1¼"	STD.	(12)
MD-B	FREE STANDING	3 1 6 1	5 0 2 0	0 1 2 5	1 2 3 3	20 30 100 200	8 1 8 1	8 4 30 18	400	C.B. 400 A.	3	4	120/208	F-MDB	4	500 MCM	XHHW	3"	NO	(13)
MD-A	FREE STANDING	1 2 1 1 1 1 1	0 0 0 1 0 0 0	5 0 3 2 0 3 11	2 3 3 3 3 3 3	90 20 40 100 150 200 400	1 2 1 2 1 1 1	12 6 12 12 3 12 36	600	C.B. 600 A.	3	4	277/480	F-MDA	8	350 MCM	XHHW	2"x3"	NO	(14)
														F-PRI	4	#6	5 KV	4"	—	(17)
														GRN-R	1	2/0	BARE	¾"	—	(15)
														GRN-H	1	2/0	BARE	¾"	—	(15)
														GRN-S	1	2/0	BARE	¾"	—	(15)
														GRN-W	1	2/0	BARE	¾"	—	(15)
														GRN-T	1	1/0	BARE	¾"	—	(16)

PANELBOARD NOTES

1. Top feed.
2. Min Gutters 6" sides and depth, 8" top and bottom.
3. Branch Breakers minimum 10,000 AIC Type THQB.
4. Branch Breakers, minimum 18,000 AIC Type TED.
5. Bottom feed.
6. Min Gutters 6" depth, 8" sides, 10" top and bottom.
7. Existing FPE Panelboard. Remove existing feeder and refeed from MD-B.
8. Add new 2P20 Branch Breaker to match existing.
9. Existing panelboard to be replaced and relocated. Remove all unused wiring.
10. Refeed existing emergency shut-off contactor from MD-B and remove existing feeder.
11. Single phase panelboards for student use. minimum gutters 4" sides and depth, 6" top and bottom. Tubs to be solid galvanized with no prepunched knockouts. Main and Branch CB's 10,000 AIC Type TQL.
12. Enclosed circuit breaker in NEMA 12 enclosure. Equip with shunt trip mechanism for emergency shut-off control. Breaker to be minimum 10,000 AIC Type TED.
13. Free standing Distribution Switchboard like GE AV-Line, front serviceable. Main 3P400 circuit breaker shall be like Type TJK6 with interchangeable trips and minimum 30,000 AIC. Branch circuit breakers shall be minimum 18,000 AIC Type TED to 150 amperes and Type TFK over 150 to 225 amperes. Switchboard width to be 35" and 25" depth.
14. Free standing Distribution Switchboard like GE AV-Line, front serviceable. Provide incoming pull section. Main section to have main CB located in Middle 1/3 of section, meters top 1/3 and C.T.'s and P.T.'s in lower 1/3. Main Breaker shall be minimum 50,000 AIC. Type THKR, 3P600 ampere. Ground fault protection is not required. Branch circuit breakers shall be 25,000 AIC Type THED to 100 amperes, THJK 125 to 600 amperes, interchangeable trips.
15. Make up grounds by thermo welding to ground rod, heating main, building steel, water main on entrance side of meter.
16. Bond transformer and switchboard neutral to service entrance gound.
17. See specifications. Underground rated shielded 5 KV cable.

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N.M.V.T.I. SHOP

PRESQUE ISLE MAINE

KEY PLAN

NO.	REVISION	DATE
1	AS-BUILT	5-4-83

DESIGNER	
ENGINEER	GWA
DRAWN BY	TLS/JEA
CHECKED BY	GWA/VTS
DATE: JUNE 1, 1981	

ELECTRICAL SITE PLAN, RISER DIAGRAM, PANELBOARD SCHEDULE~

STATE OF MAINE GEORGE W. AMES REGISTERED PROFESSIONAL ENGINEER

E1

Swain and Ames Associates
CONSULTING ENGINEERS
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