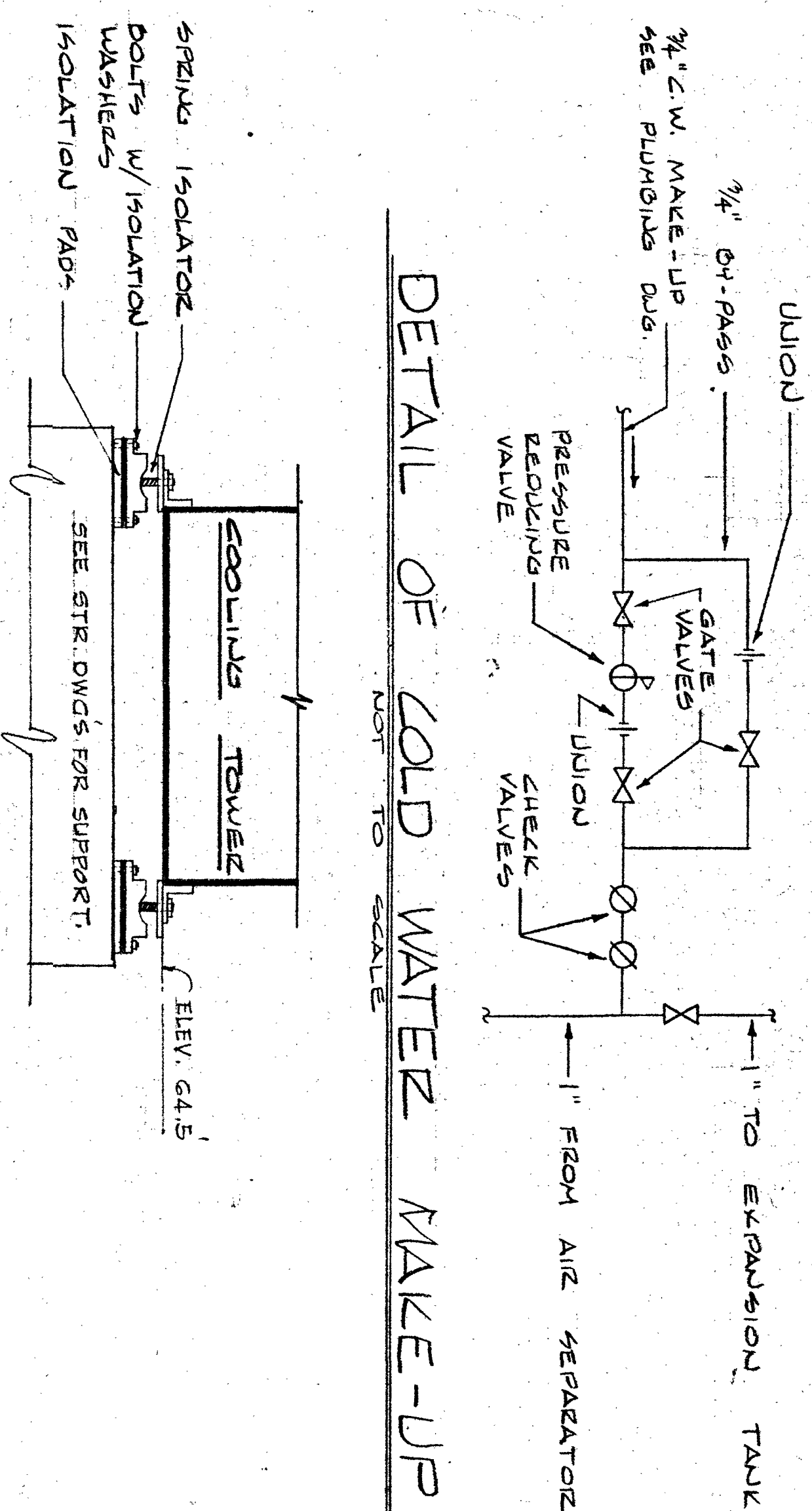
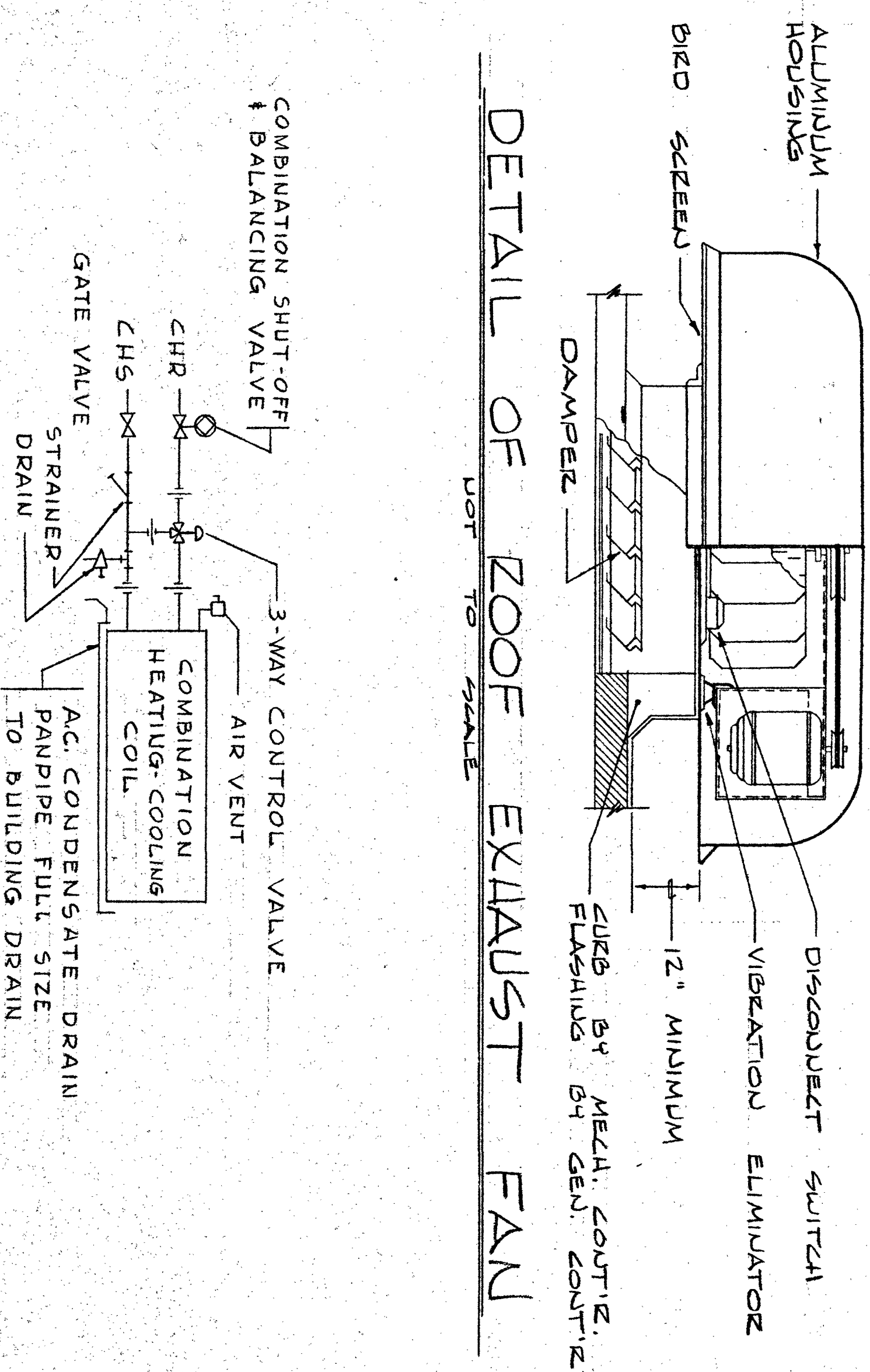


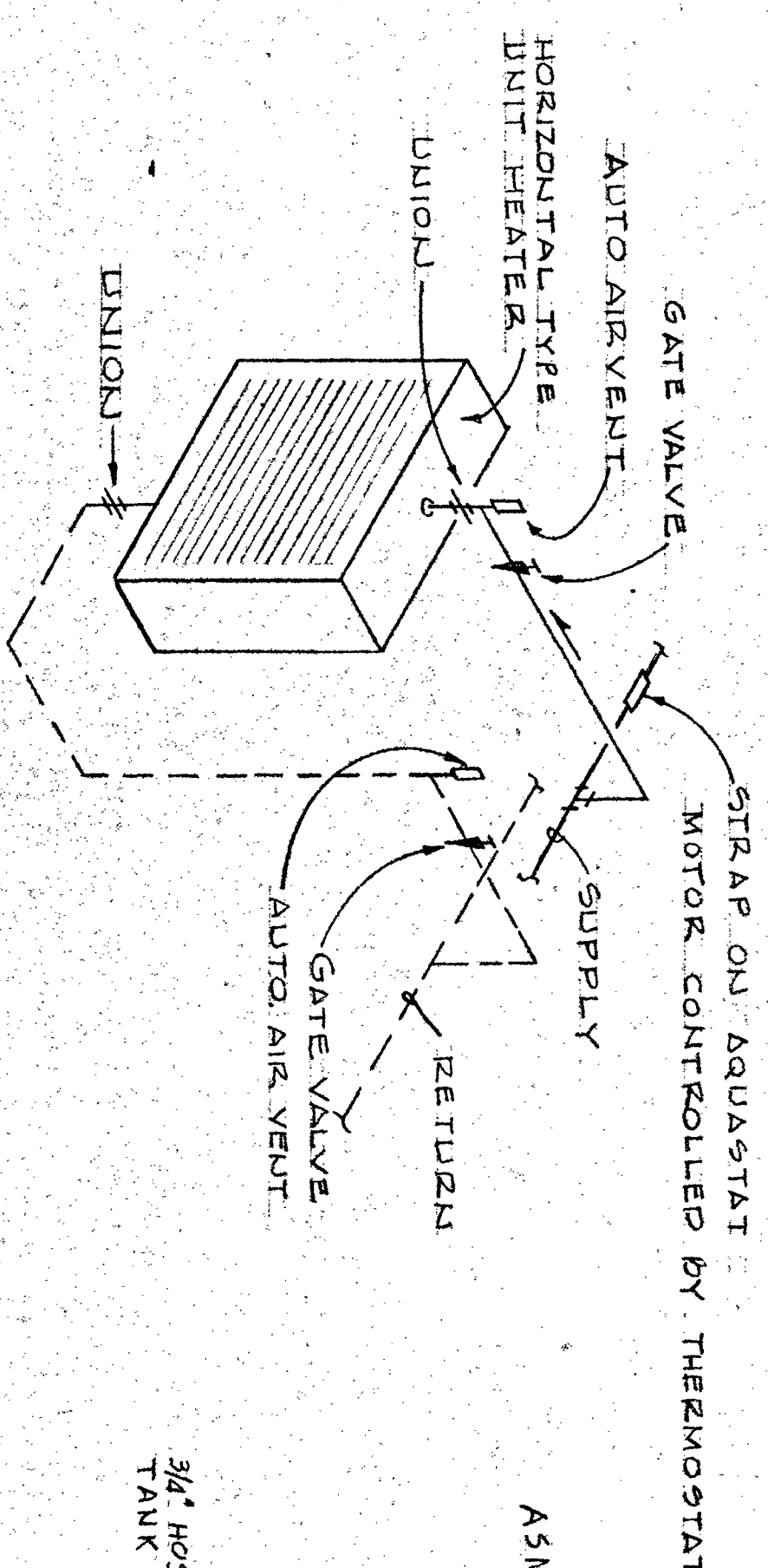
BASEMOUNTED PUMP DETAIL



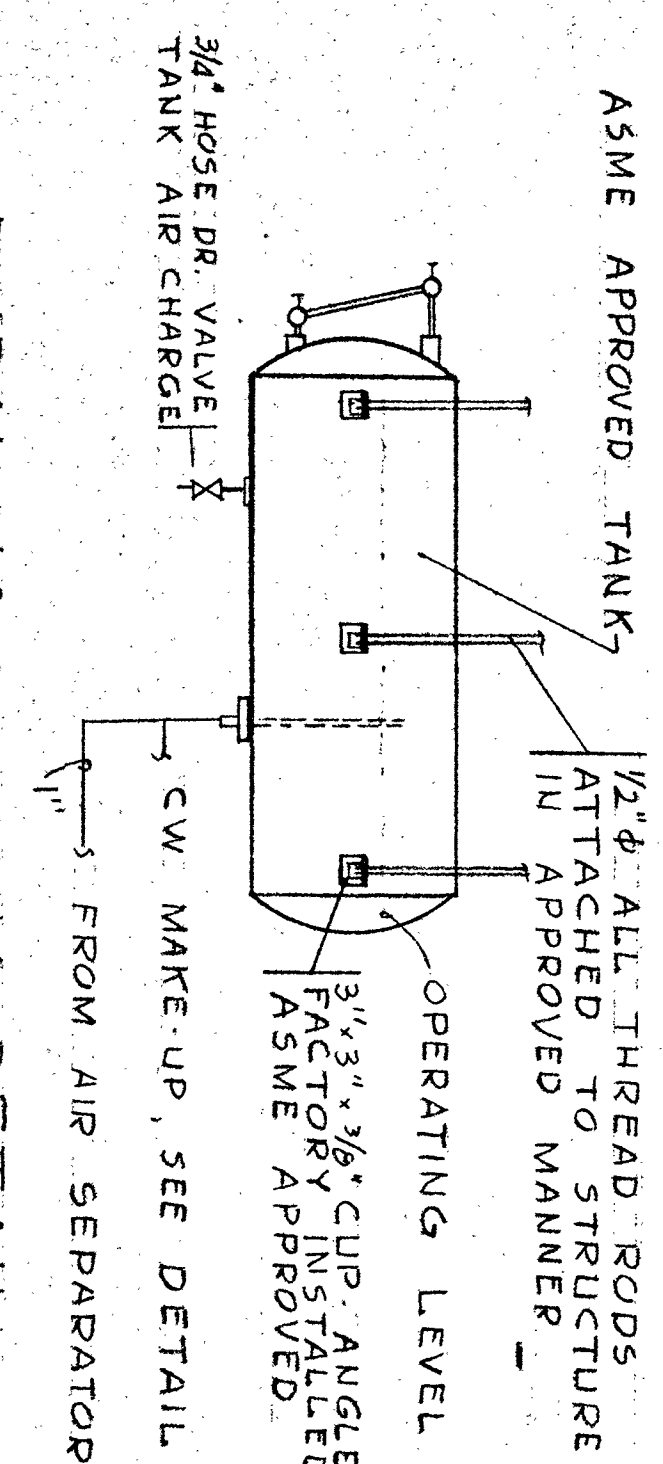
DETAIL OF COLD WATER MAKE-UP



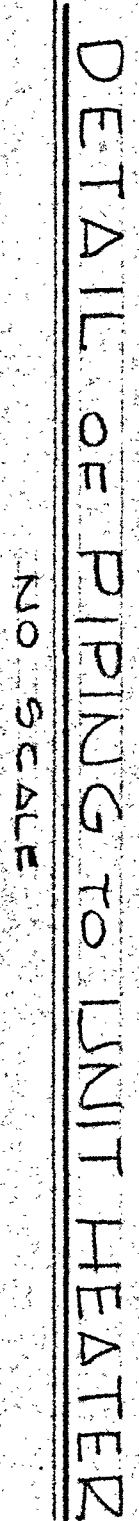
DETAIL OF ZOO EXHAUST FAN



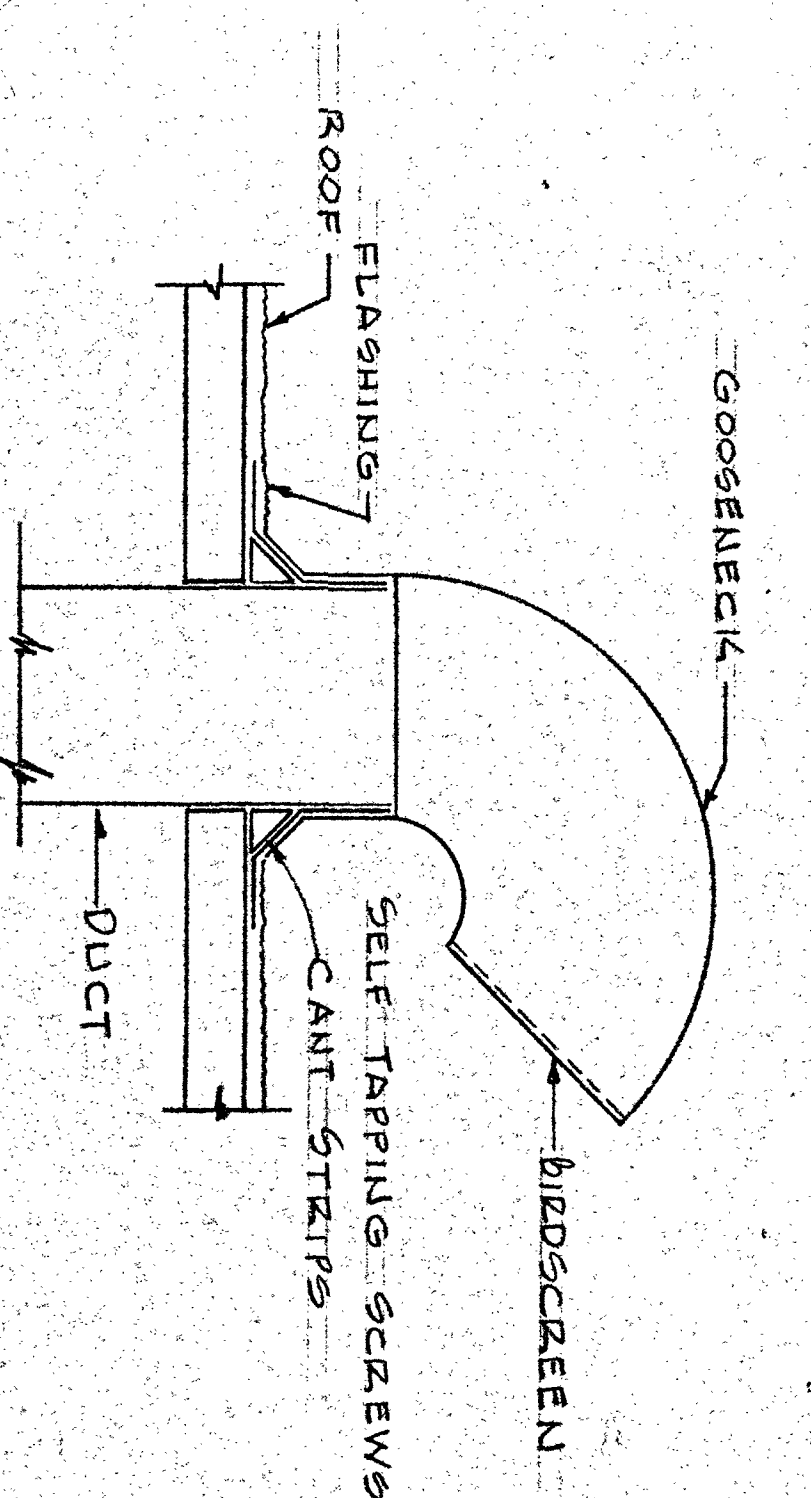
DETAIL OF COOLING TOWER SUPPORT



EXPANSION TANK DETAIL



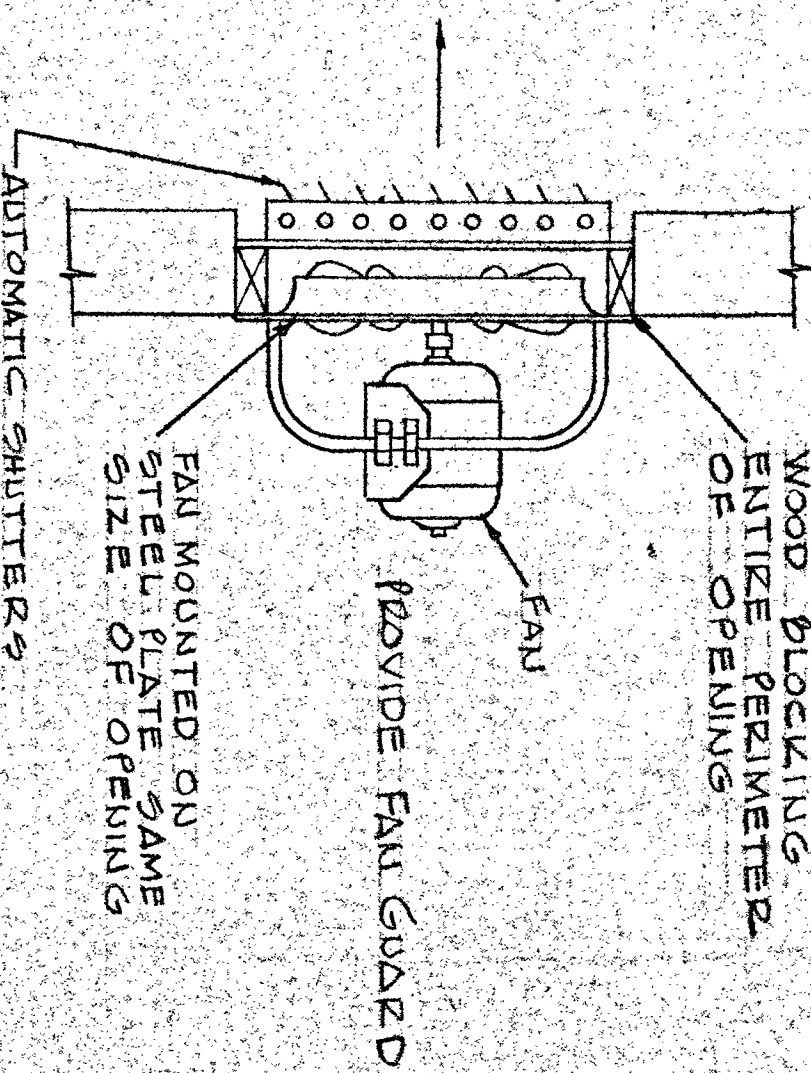
NO SCALE



TYPICAL UNIT VENTILATOR, A.H.U. & F.C.U.

COIL PIPING DETAIL

NOT TO SCALE



DETAIL OF WALL EXHAUST FAN

FAN										SCHEDULE									
FAN NO.	SERVICE	TYPE	C.F.M.	INT. W.D.	MAX. D.V.	MAX. E.P.M.	HP	AMPERES	PHASE	WATTS	WATTS	WATTS	WATTS	WATTS	WATTS				
1	RETURN AIR	CENT	5500	40	1300	550	1/2	480	3	60	NO	NO	NO	NO	NO				
2	EXH	"	3000	20	—	330	1/3	120	1	"	YES	YES	YES	YES	YES				
3	EXH	"	2400	20	—	330	1/3	120	1	"	YES	YES	YES	YES	YES				
4	TOLL EXH	"	1300	20	—	780	1/6	120	1	"	YES	YES	YES	YES	YES				
5	UAV. EXH	"	2000	10	—	1050	1/6	120	1	"	YES	YES	YES	YES	YES				
7	BOLLER RM	PROP	3500	20	—	625	1/4	120	1	"	YES	YES	YES	YES	YES				
8	ELEC RM	CENT	1500	15	—	1130	1/4	120	1	"	YES	YES	YES	YES	YES				
										ELECTRICAL						ELECTRICAL			
										TRANE 27 AFSW						REMACUS			

FEAR SCHEIDT

UNIT		VENTILATOR										SCHEDULE				
ID/UNIT	F/M	PERCENT O ₂		WATER		COOLING			HEATING		C/M	P.D.	EDUCATION		MODEL	
		MAX	MIN	BUFFER	W/TEMP	HEAT	DIFFER	W/TEMP	HEAT	DIFFER			W/TEMP	HEAT		DIFFER
750	25	25	33	160	60°	6.7	37.6	16.1	4.9°	46.7	56.0	150	5.6	1.2	"	1°
1000	"	"	"	"	"	"	38.4	25.1	"	"	77.0	"	7.7	2.7	18°	18°
1250	"	"	"	"	"	"	51.0	32.0	"	"	102.0	"	10.2	5.3	14°	14°

UNIT

PUMP SCHEDULE						
DESCRIPTION	SIZE/TYPE	TYPE	GPM	HEAD FEET	BEST PUMP CHARACTERISTICS H.P. VOLTS PHASE CYCLES	RE-MARKS
1	HOT-CHILLED		240	40	5 480 3	GO
2	"		40	40	5 480 3	GO
3	CONDENSER		240	60	5 480 3	GO

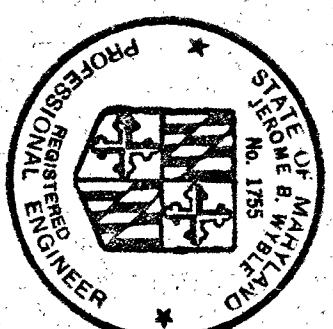
PUMF

DATE	3-1-77	TIME	11-2	NO.	350-2	NAME	JOHANNES & MURRAY	ADDRESS	1058 BEECHING ROAD 855 PERKINS DRIVE JUN 9-1982	APPROVED	<i>John J. Murray</i>	REMARKS	ALLEGANY COMMUNITY COLLEGE CUMBERLAND, MARYLAND
DATE		TIME		NO.		NAME	JOHANNES & MURRAY & ASSOCIATES	ADDRESS	1058 BEECHING ROAD 855 PERKINS DRIVE JUN 9-1982	APPROVED		REMARKS	ALLEGANY COMMUNITY COLLEGE CUMBERLAND, MARYLAND

SYMBOLS	#	ABBREVIATIONS
—CHS—		CHILLED - HOT WATER SUPPLY
---CHK---		CHILLED - HOT WATER RETURN
—D—		A.C. CONDENSATE DRAIN
—CDS—		CONDENSER WATER SUPPLY
---COR---		CONDENSER WATER RETURN
⑦		THERMOSTAT
⑦N		LIGHT THERMOSTAT
⊗		PRESSURE GAUGE
—X—		GATE VALVE
—+—		UNION
⊗		BALANCING SHUT-OFF VALVE
—X—		CHECK VALVE
⊗		THERMOMETER AND WELL
↗		STRAINER
□ MAX		MANUAL AIR VENT
—X—		DRAIN VALVE W/ HOSE BIBB
⊗		FLEXIBLE PIPE CONNECTION
—X—		PRESSURE REDUCING VALVE
⊗		A.S.M.E. PRESSURE RELIEF VALVE
⊗		AUTOMATIC CONTROL VALVE
—+—		MANUAL BALANCING DAMPER
⊗		MOTORIZED DAMPER
⊗		DUCT UNDER NEGATIVE PRESSURE
⊗		DUCT UNDER POSITIVE PRESSURE
⊗		DRY WELL

SYMBOLS & ABBREVIATIONS

EQUIPMENT LIST

[illegible]

JOHANNES & MURRAY & ASSOCIATES 2500 UNIVERSITY AVENUE SUITE 200 ANN ARBOR MI 48106 920 PRESHING DRIVE JO 5-3782	CONTINUING EDUCATION BUILDING.	JOHN GSA BERRY M-2
APPROVED <i>John F. Murray</i>	ALLEGANY COMMUNITY COLLEGE CUMBERLAND MARYLAND	3-1-77 M-2