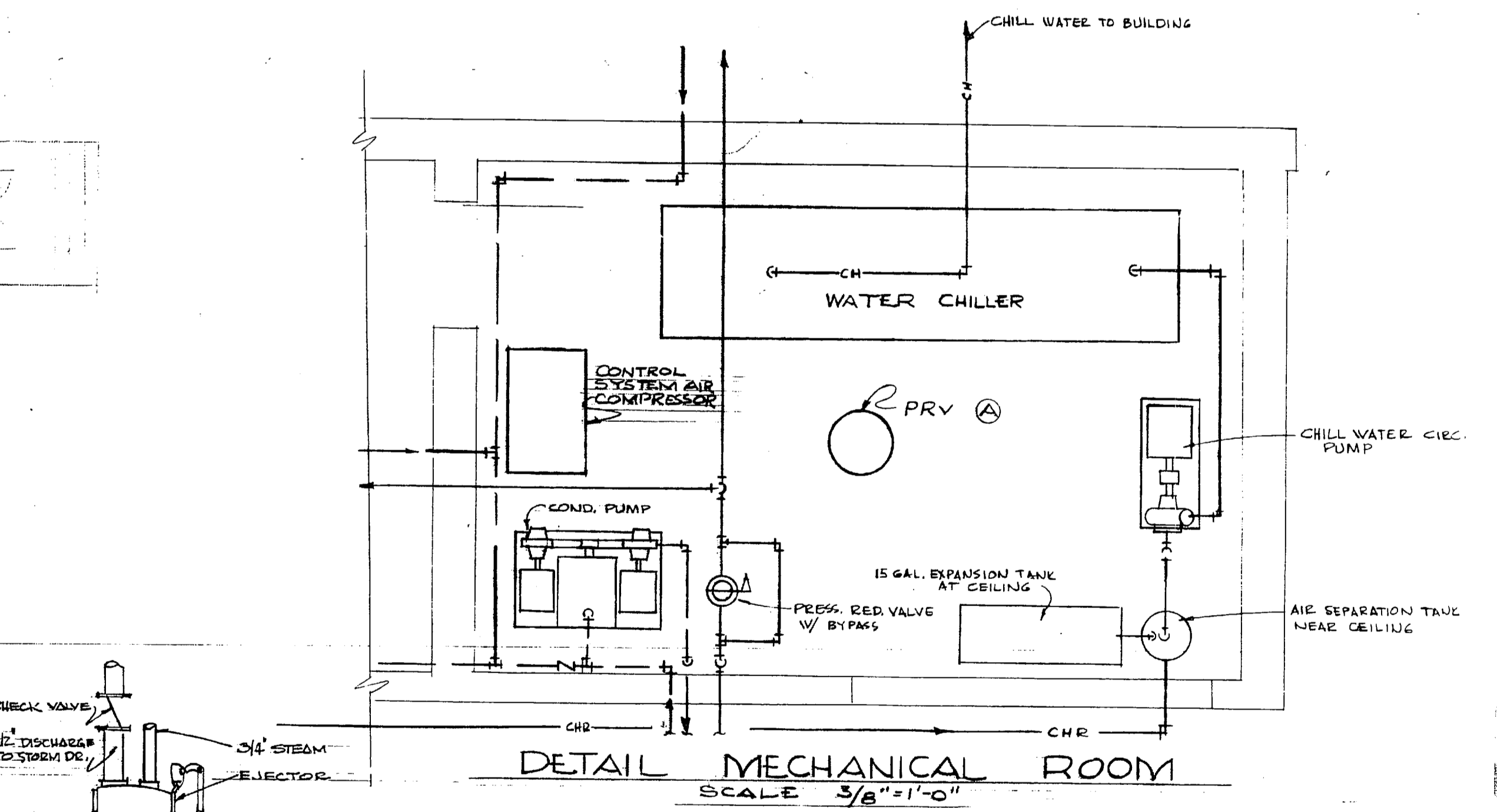
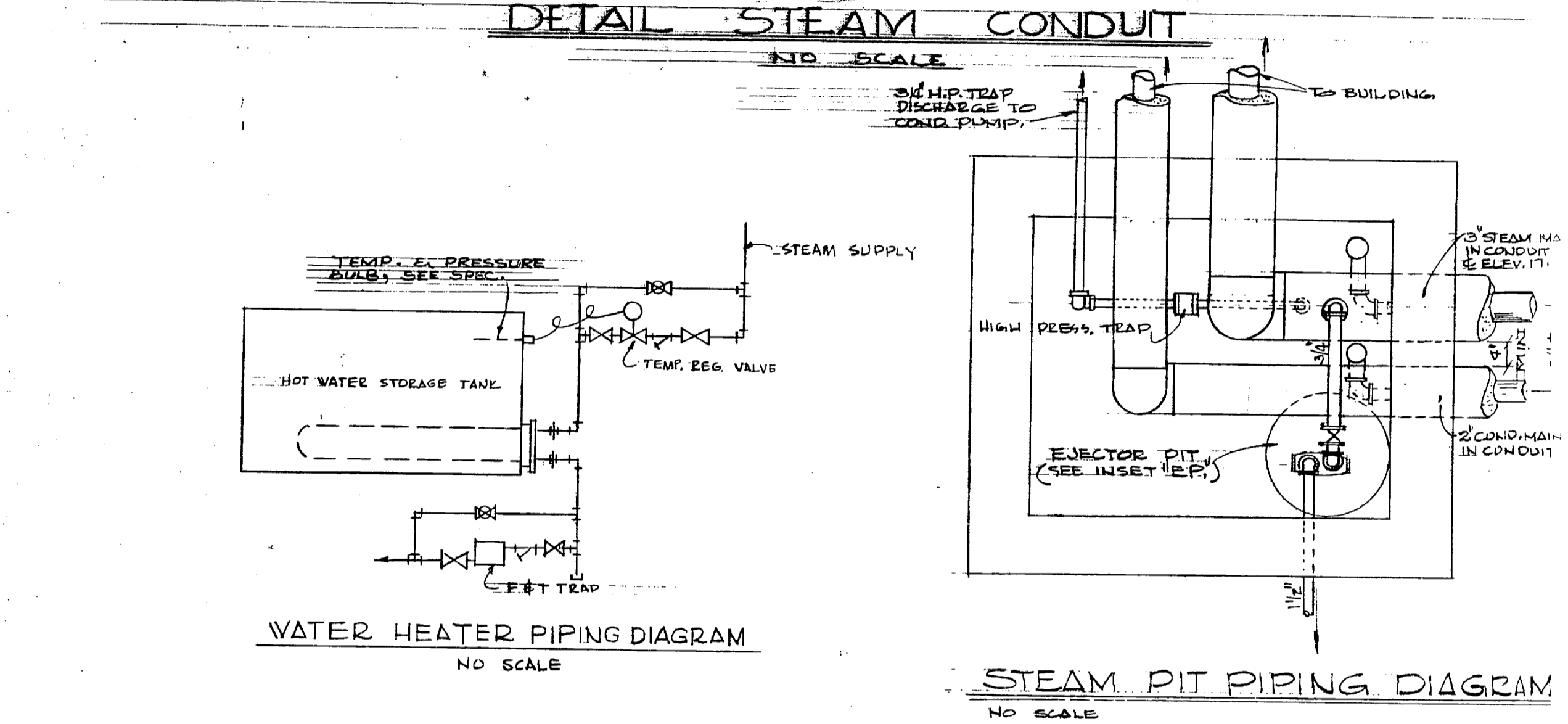
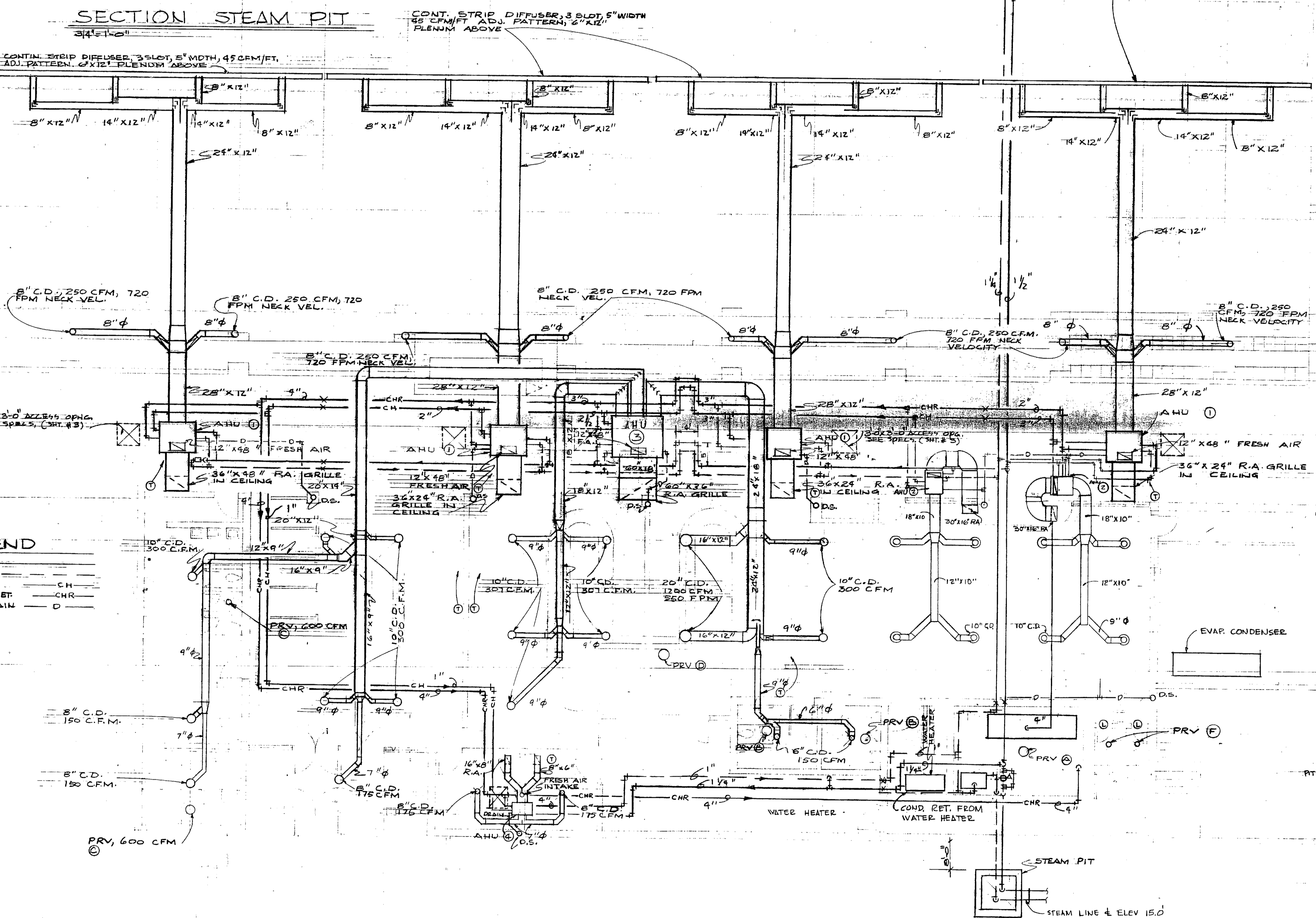
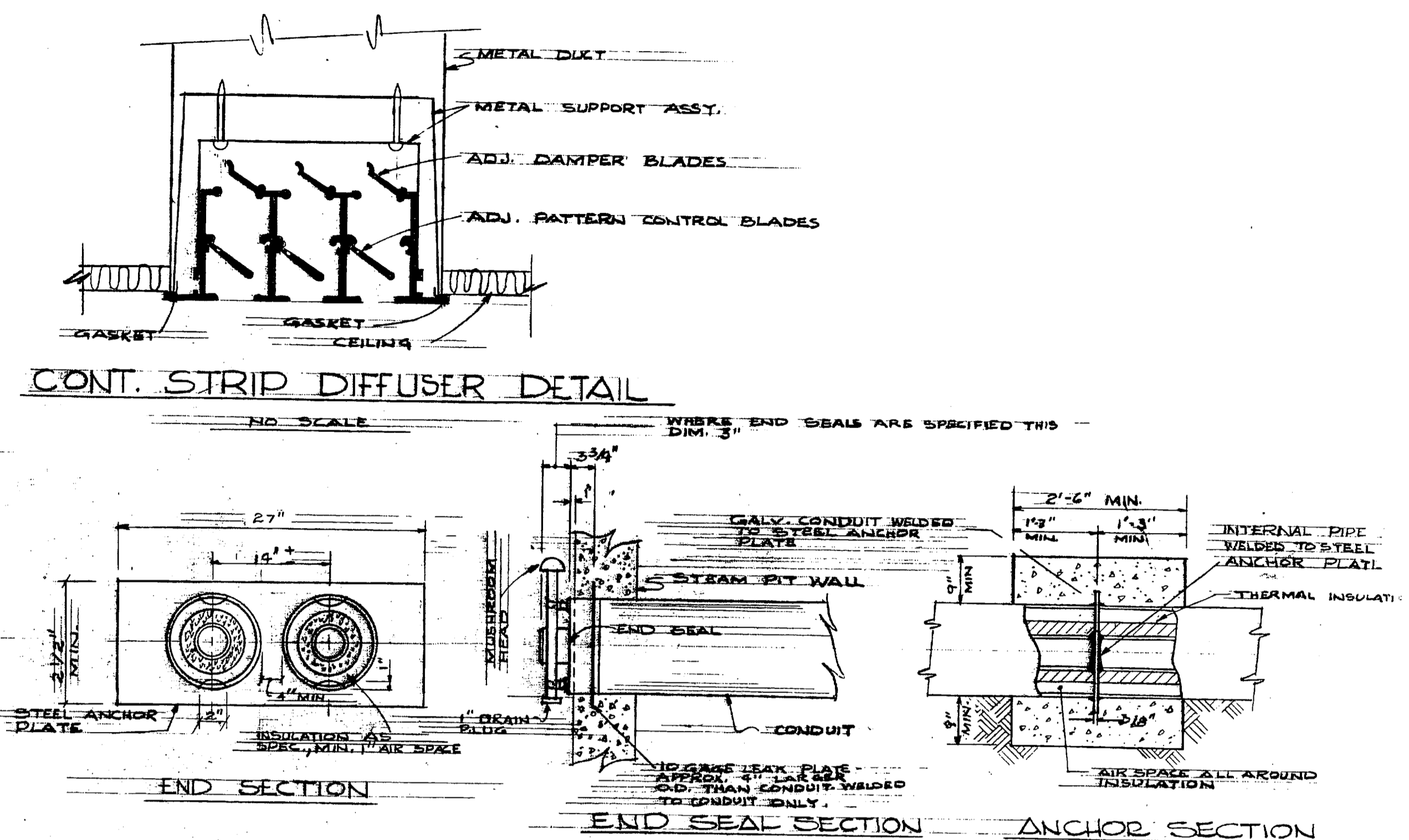
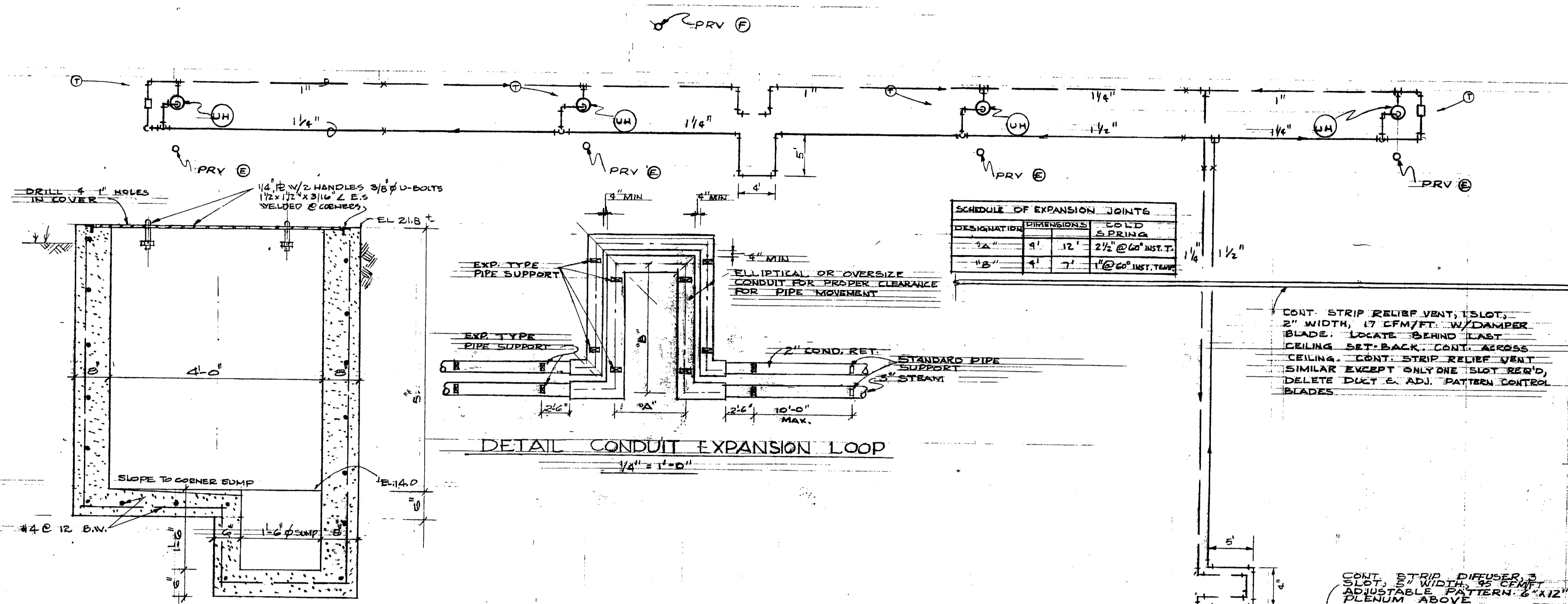


EJECTOR PIPING DIAGRAM, INSET 'EP'
 NO SCALE

EJECTOR CAPACITY 110 GPH. DRAWING STREAM @ 150 PSIG, 20" DISCHARGE HEAD, 80° SUCT. WATER TEMP.

SYMBOL	DESCRIPTION	DATE	APPROVAL
REVISIONS			
MARINE CORPS BASE		CAMP LEJUNE, N.C.	
HENRY VON OESSEN & ASSOCIATES CONSULTING ENGINEERS			
DES. JED		WILMINGTON, N.C.	
BOWLING CENTER			
HEATING & AIR CONDITIONING PLAN			
DRWN. JN	PROJ. MGR. WVD	APPROVED	DATE 6/28/63
CHK. JEB	PWD	PUBLIC WORKS OFFICER	
SUBMITTED BY HENRY VON OESSEN & ASSOCIATES		APPROVED FOR RECREATION FUND	
DATE JUNE 10, 1963		SCALE AS SHOWN SPEC	
SHEET 17 OF 18 INDEX 1044		M.C.B.C.L. N.C. DRWG. NO. 6663	



EJECTOR PIPING DIAGRAM, INSET "EP"
NO SCALE

SYMBOL	DESCRIPTION	DATE	APPROVAL
REVISIONS			
MARINE CORPS BASE CAMP LEJEUNE, N.C.			
HENRY VON OESEN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N.C.			
BOWLING CENTER			
HEATING & AIR CONDITIONING PLAN			
DES. JSD	ARCHITECTURAL ASSOCIATES		
DRWN. JN	LESLIE N. BONEY, ARCHITECTS		
CHK. JES			
PROJ. MGR. RND			
CHK. JSD			
DIR. DES. JH			
DATE	SUBMITTED BY HENRY VON OESEN & ASSOCIATES	APPROVED	DATE 6/18/63
	Henry von Oesen	Public Works Officer	
DATE JUNE 10, 1963		APPROVED FOR RECREATION FUND	SCALE AS SHOWN SPEC
		DATE July 63	SHEET 17 OF 18 INDEX 1044
			M.C.B.C.L. N.C. DRWG. NO. 66.63

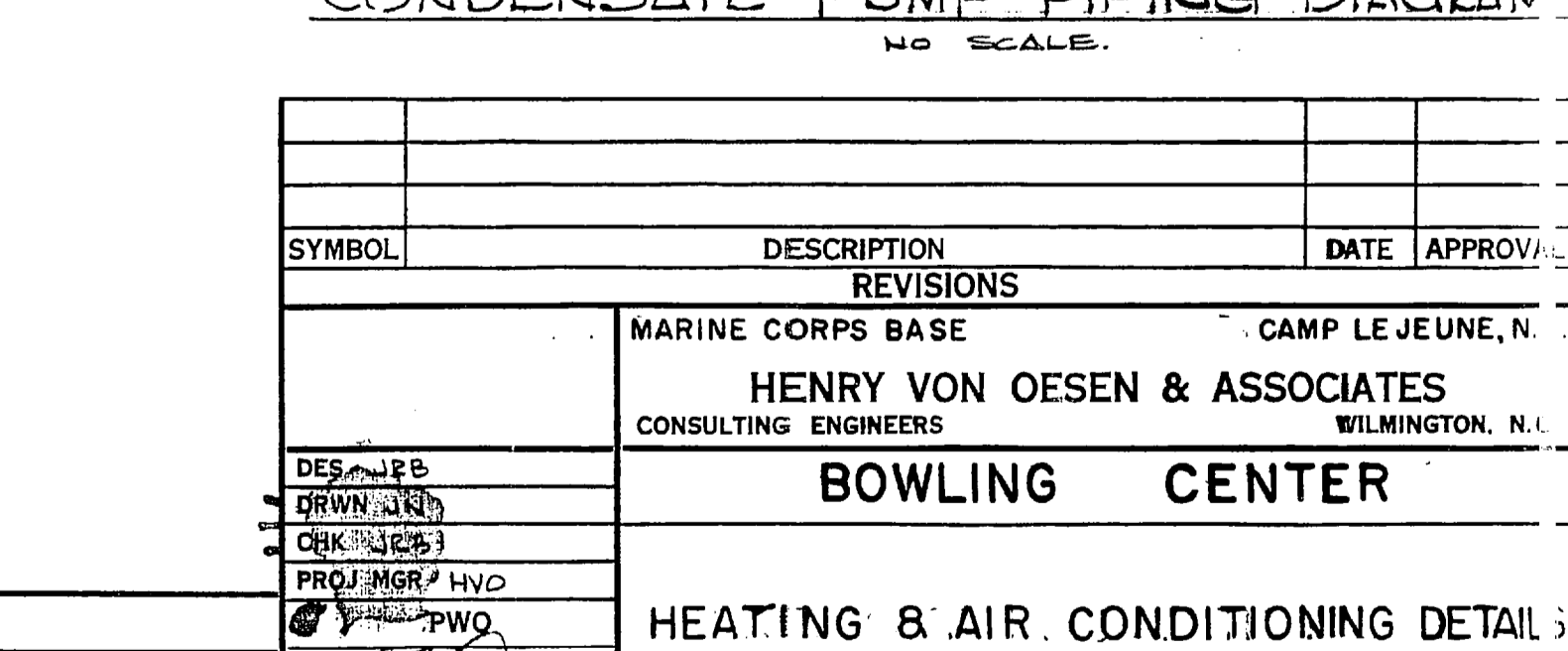
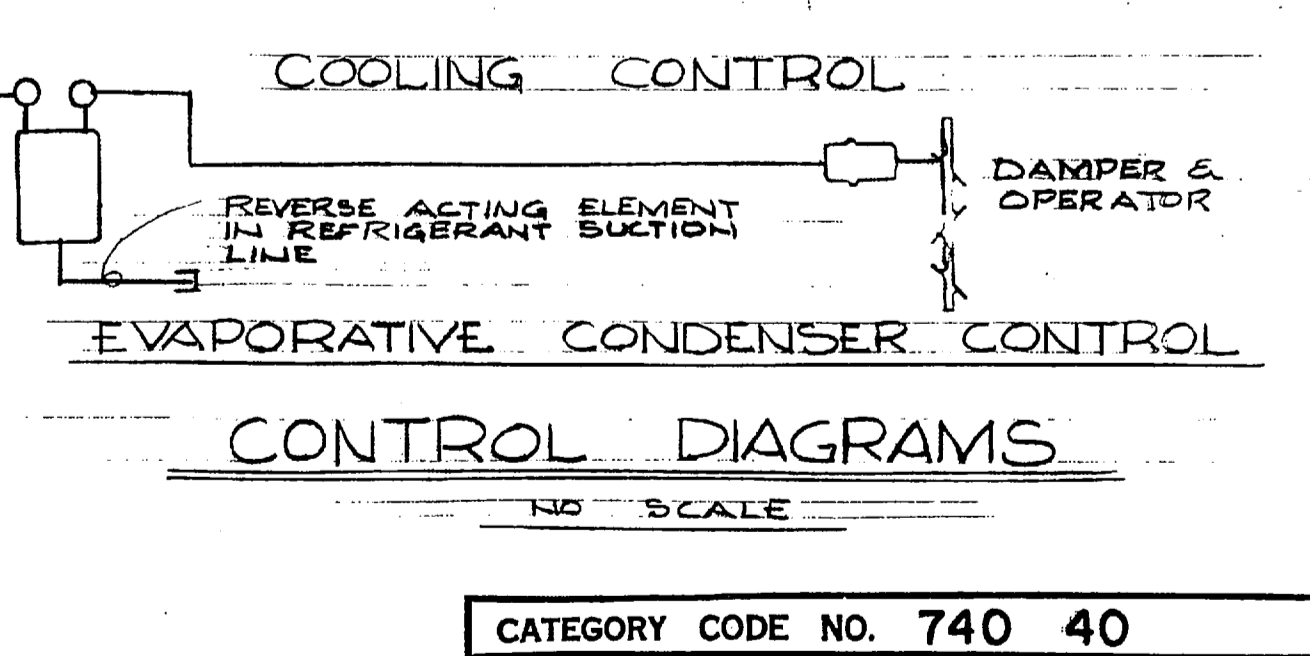
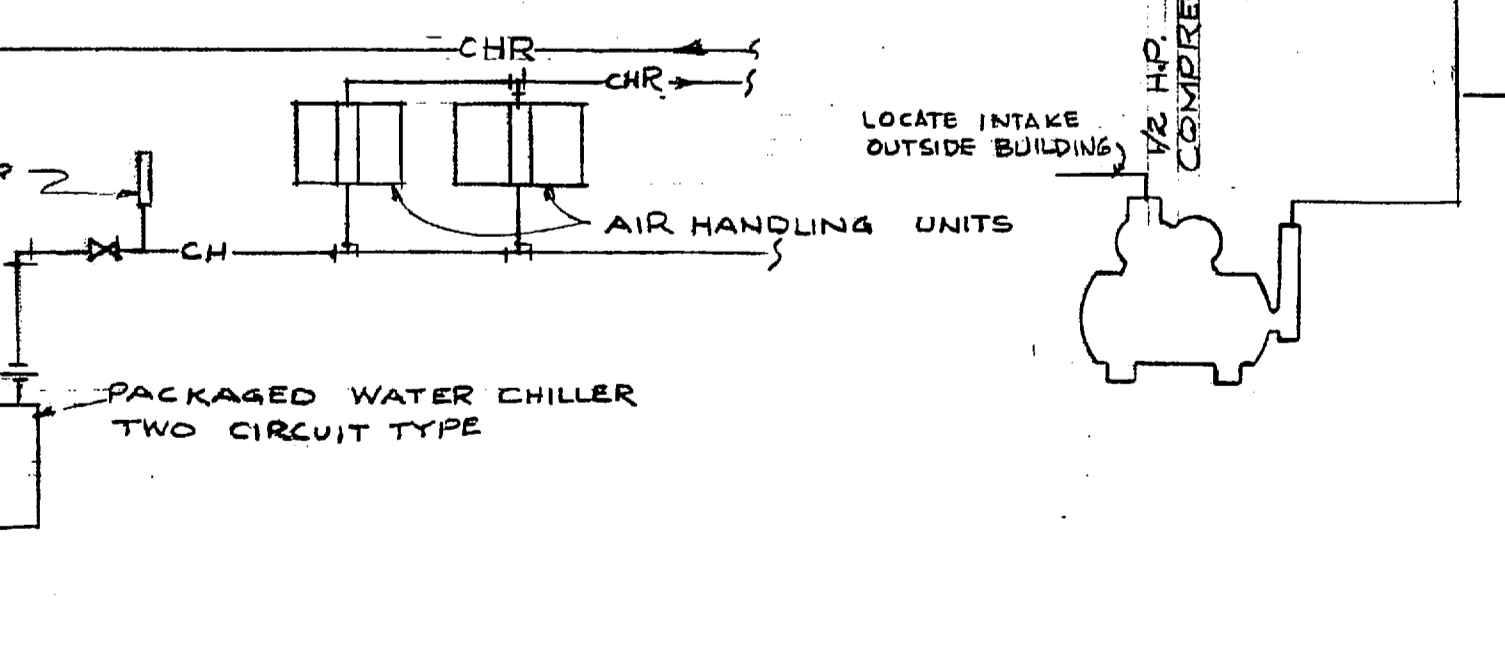
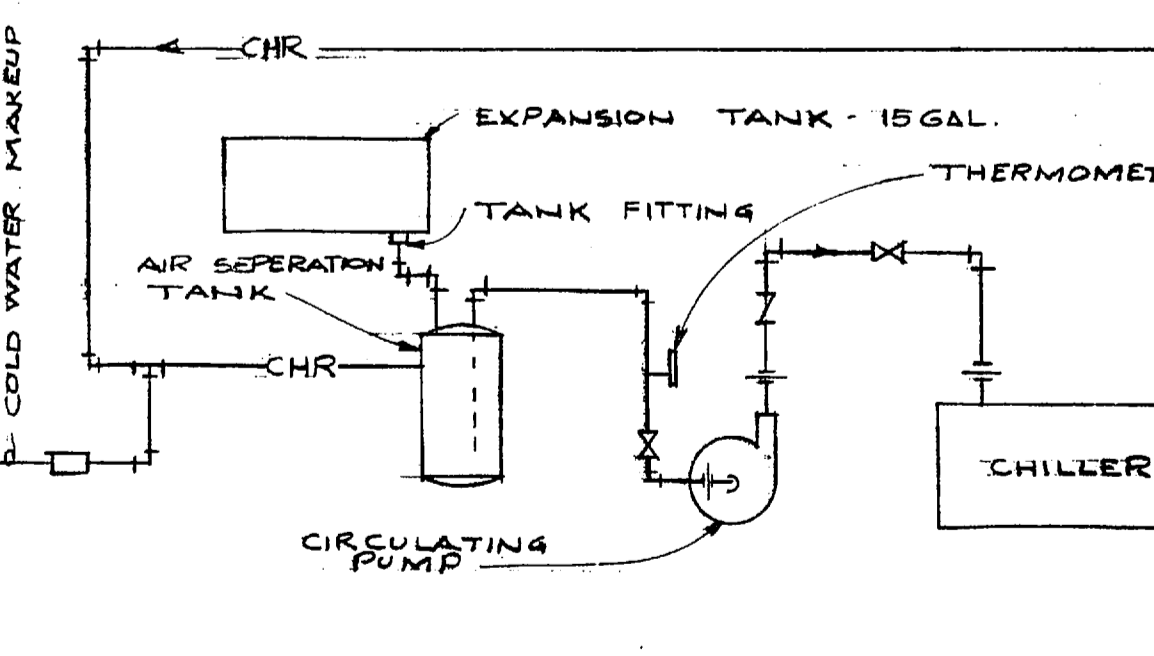
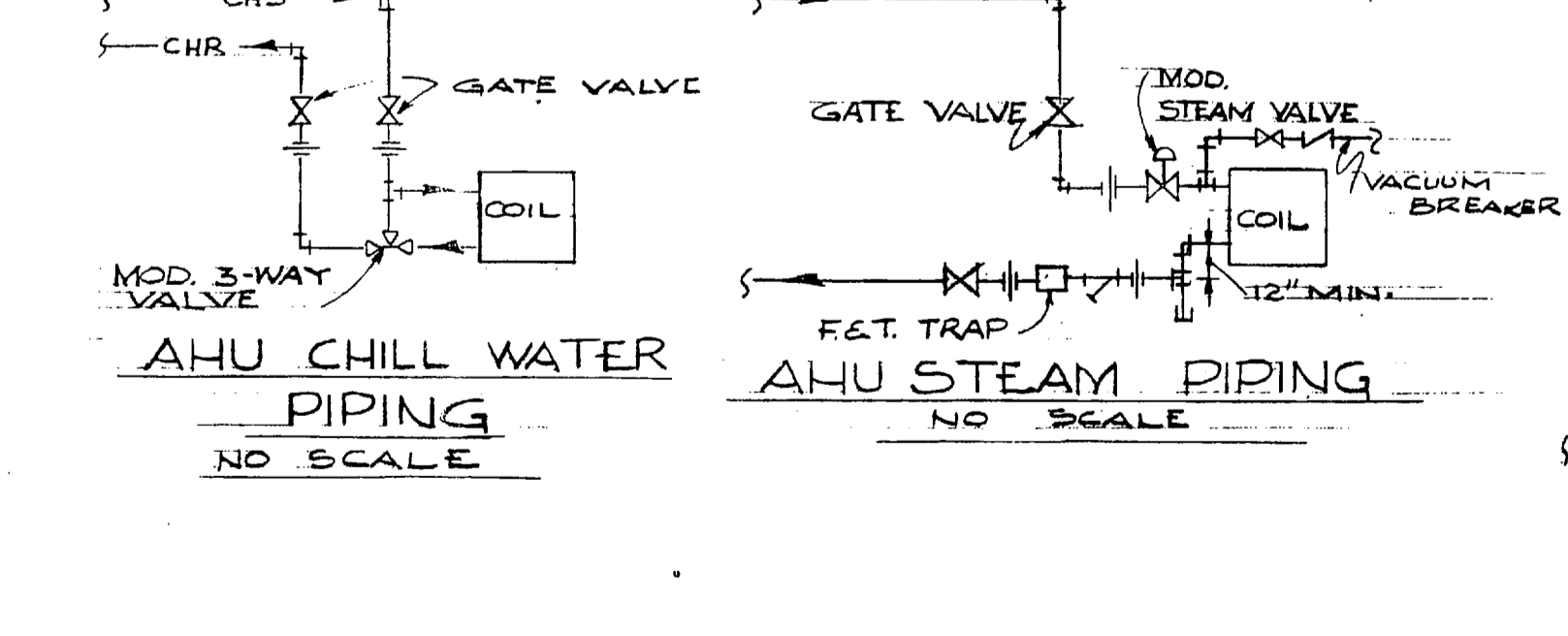
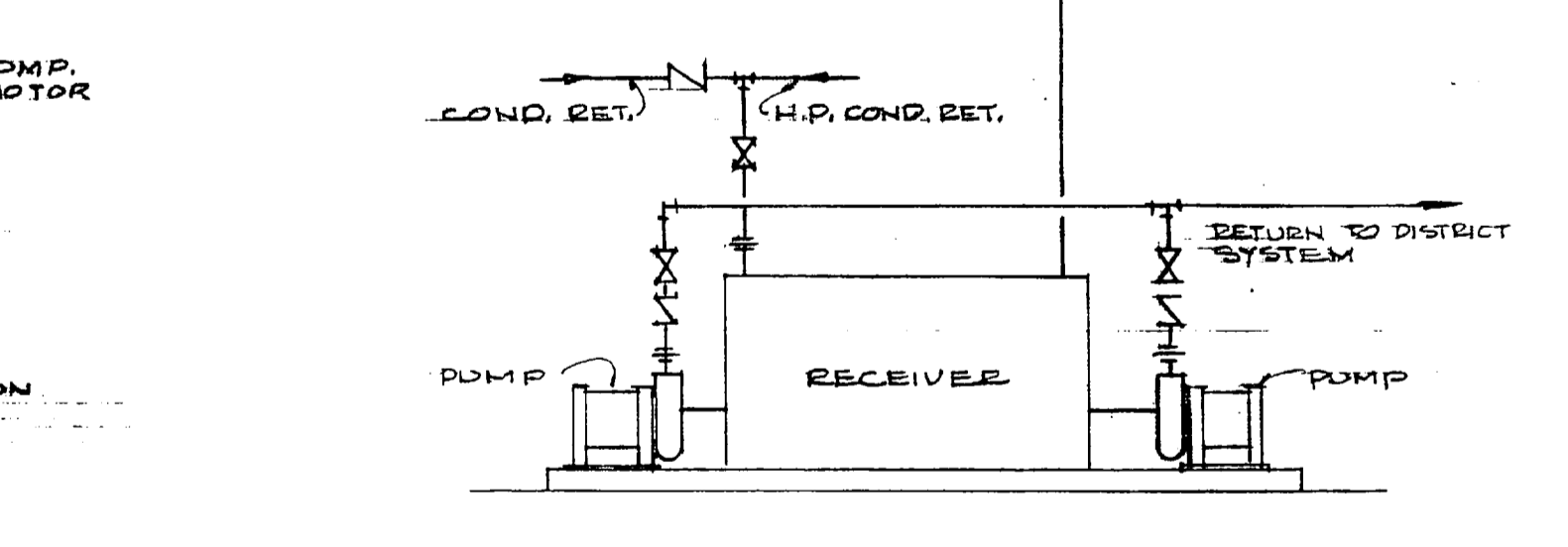
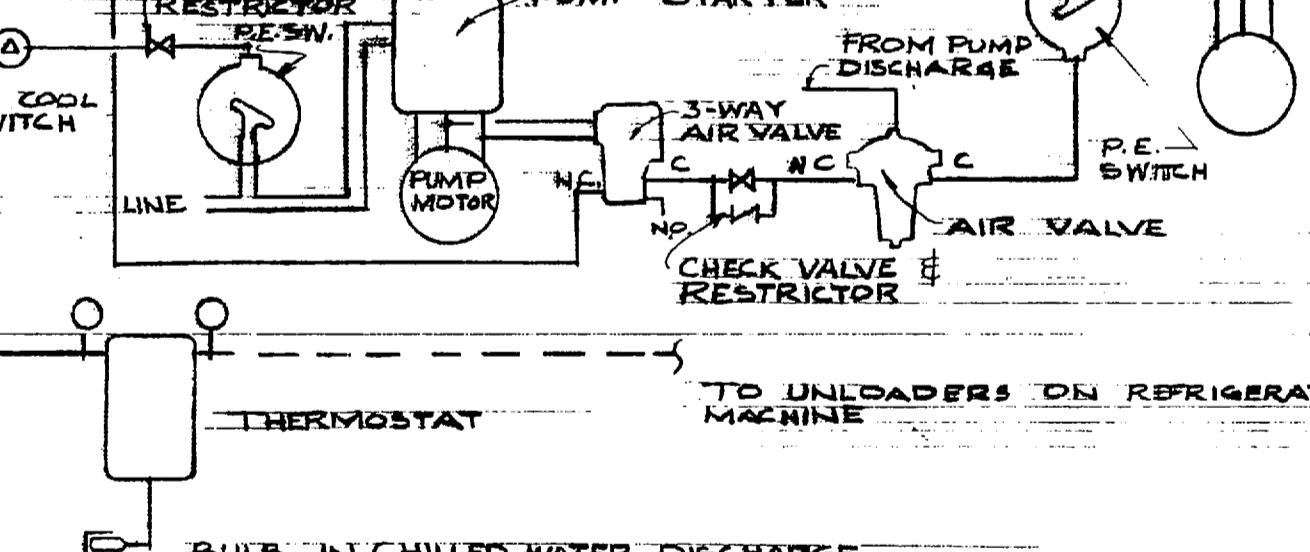
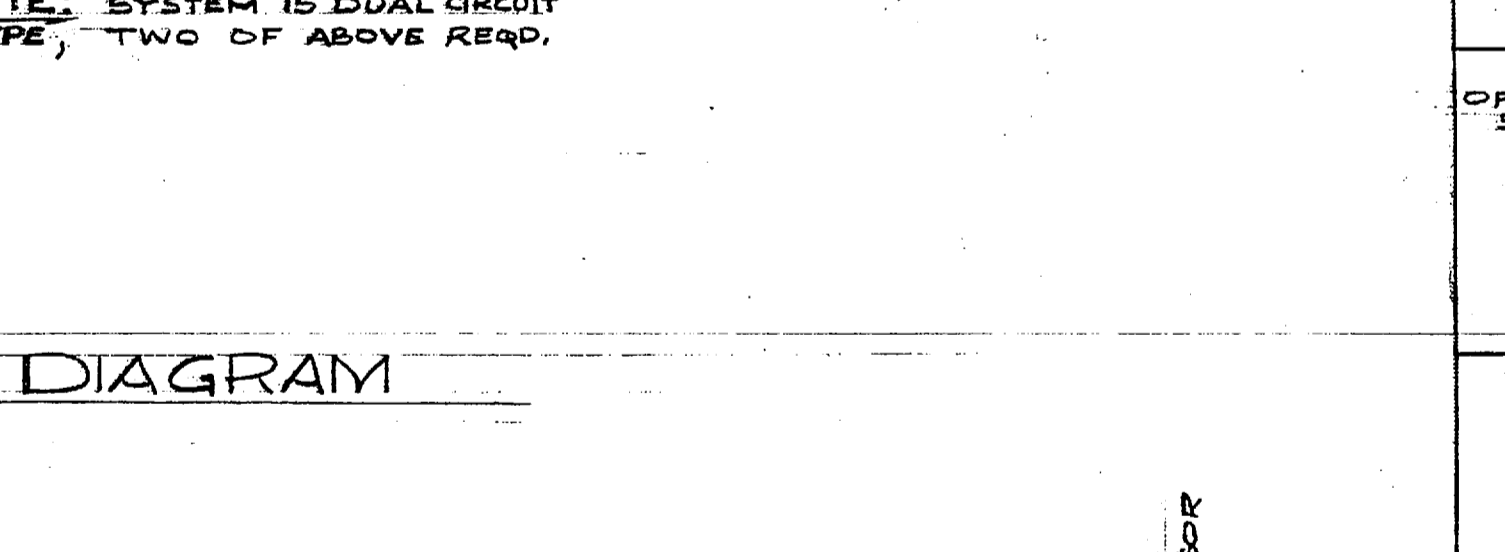
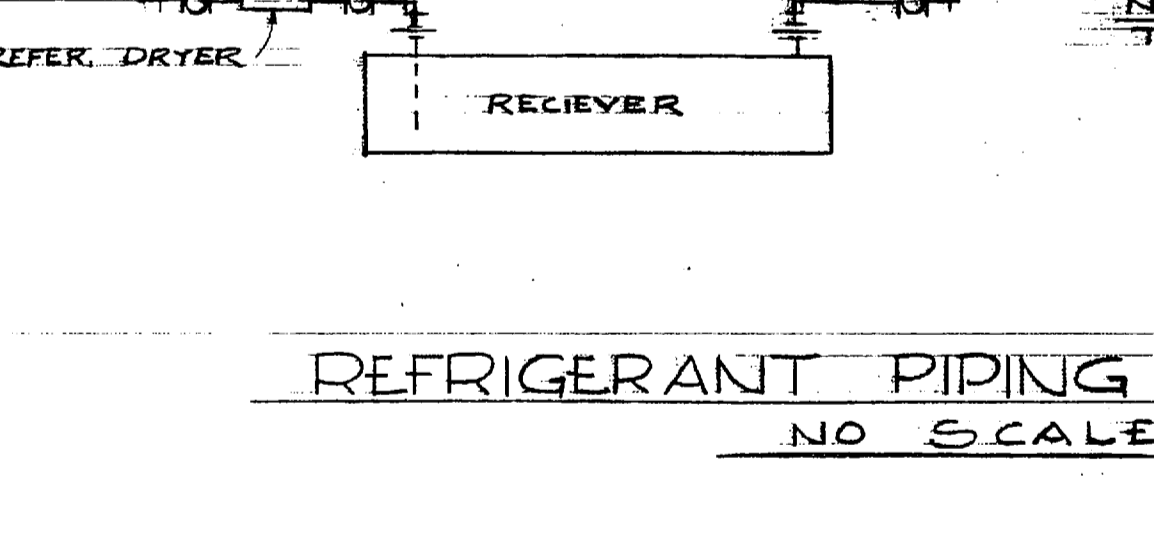
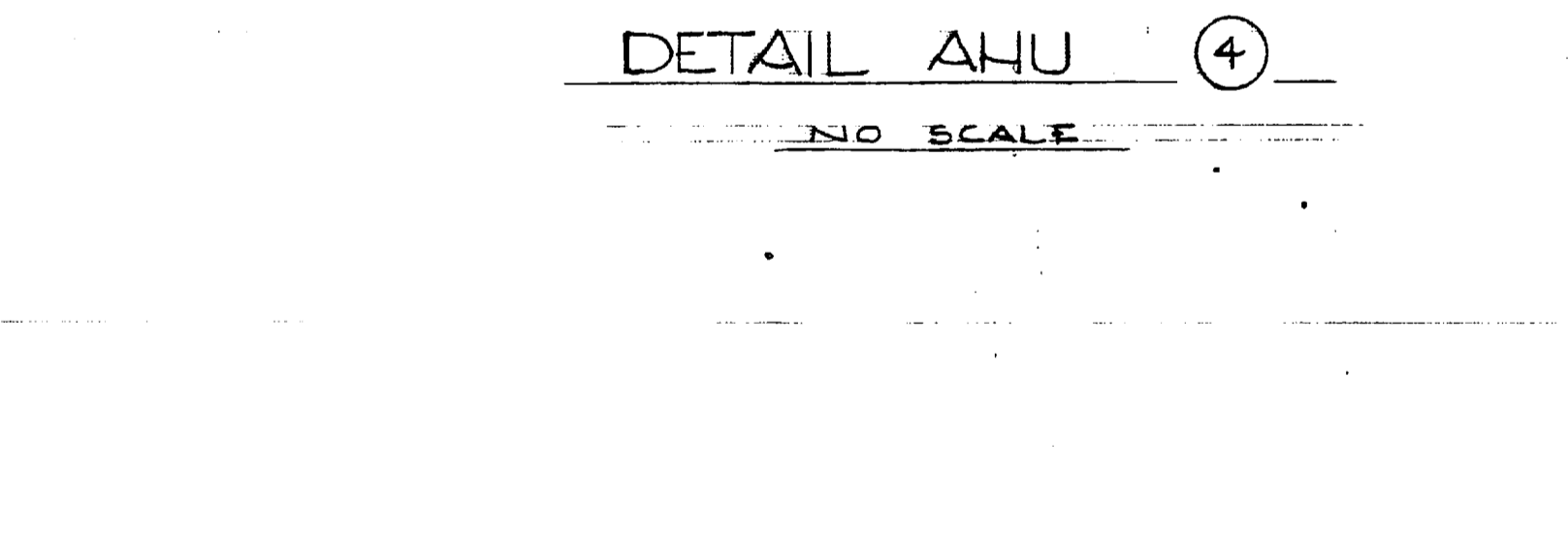
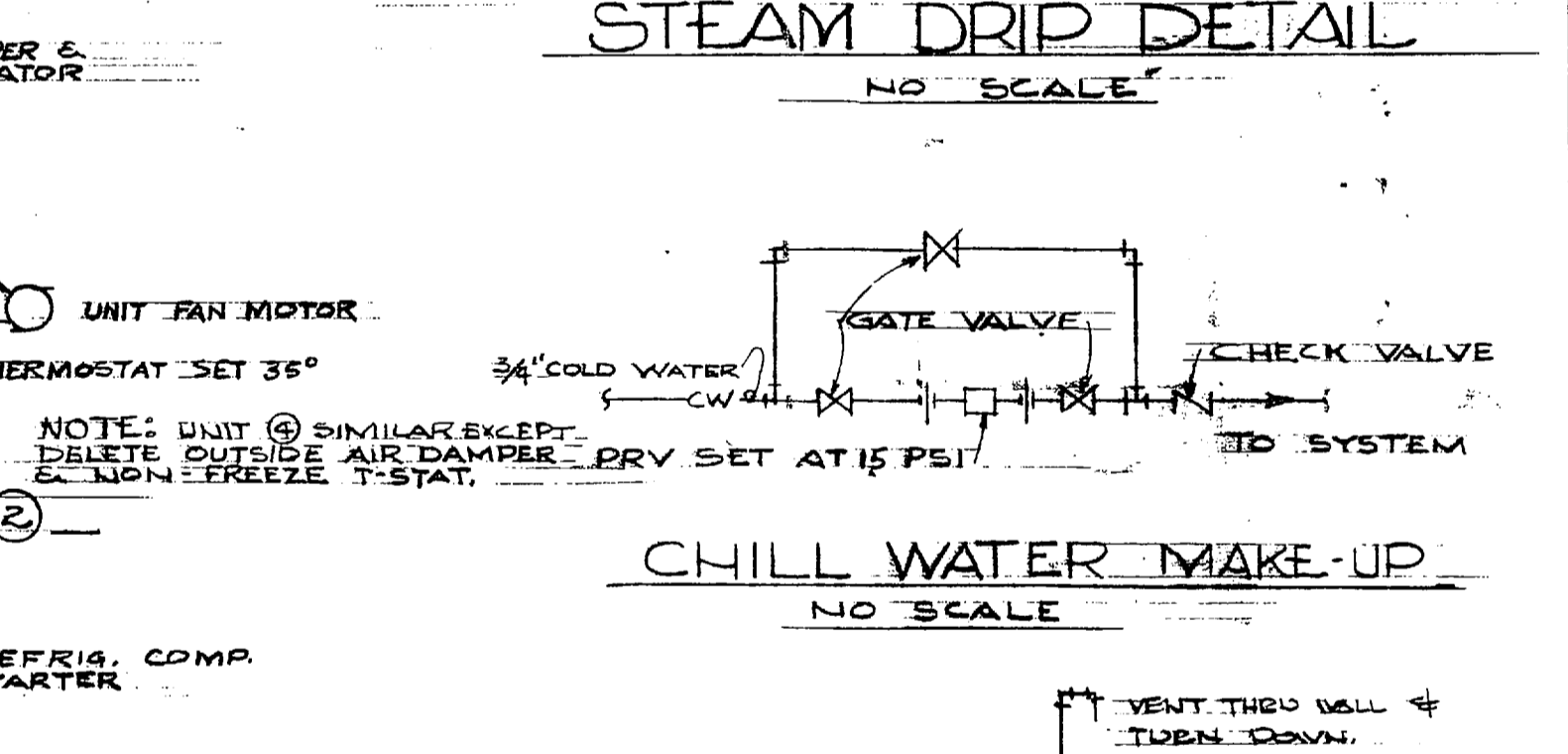
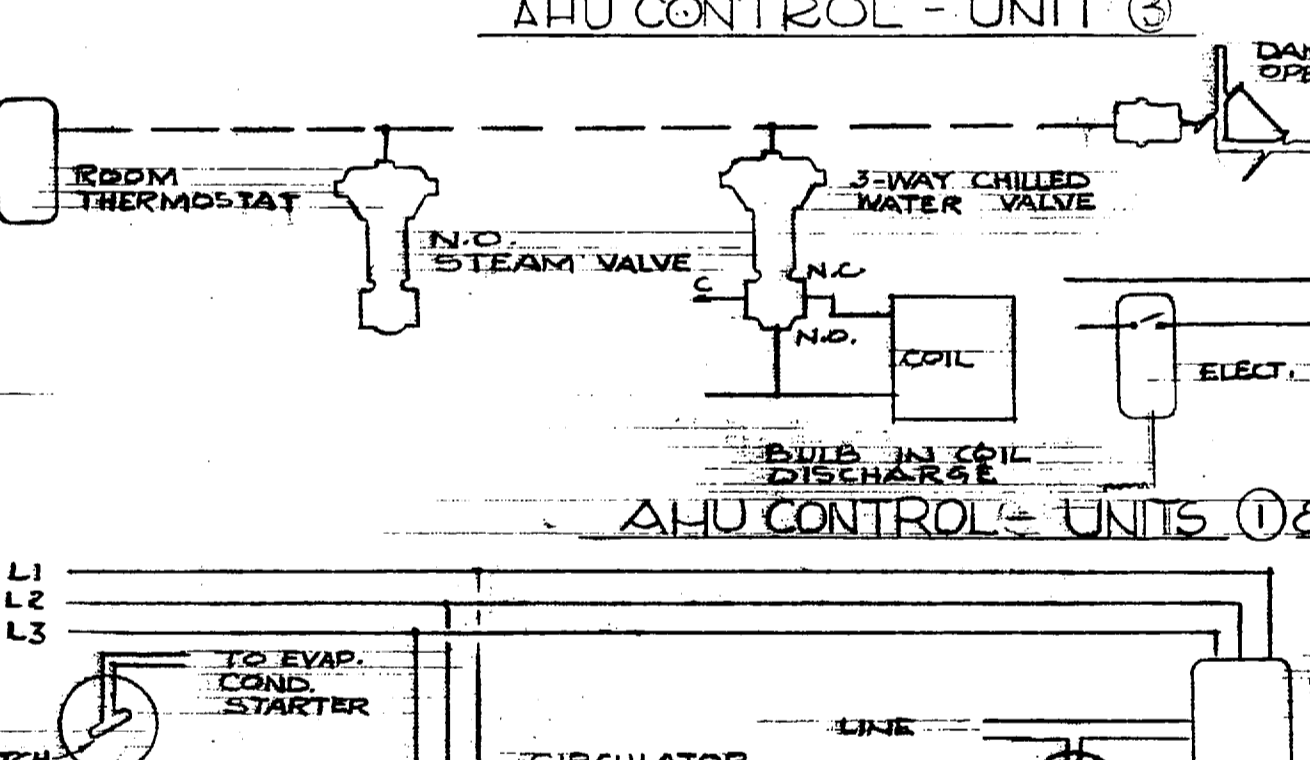
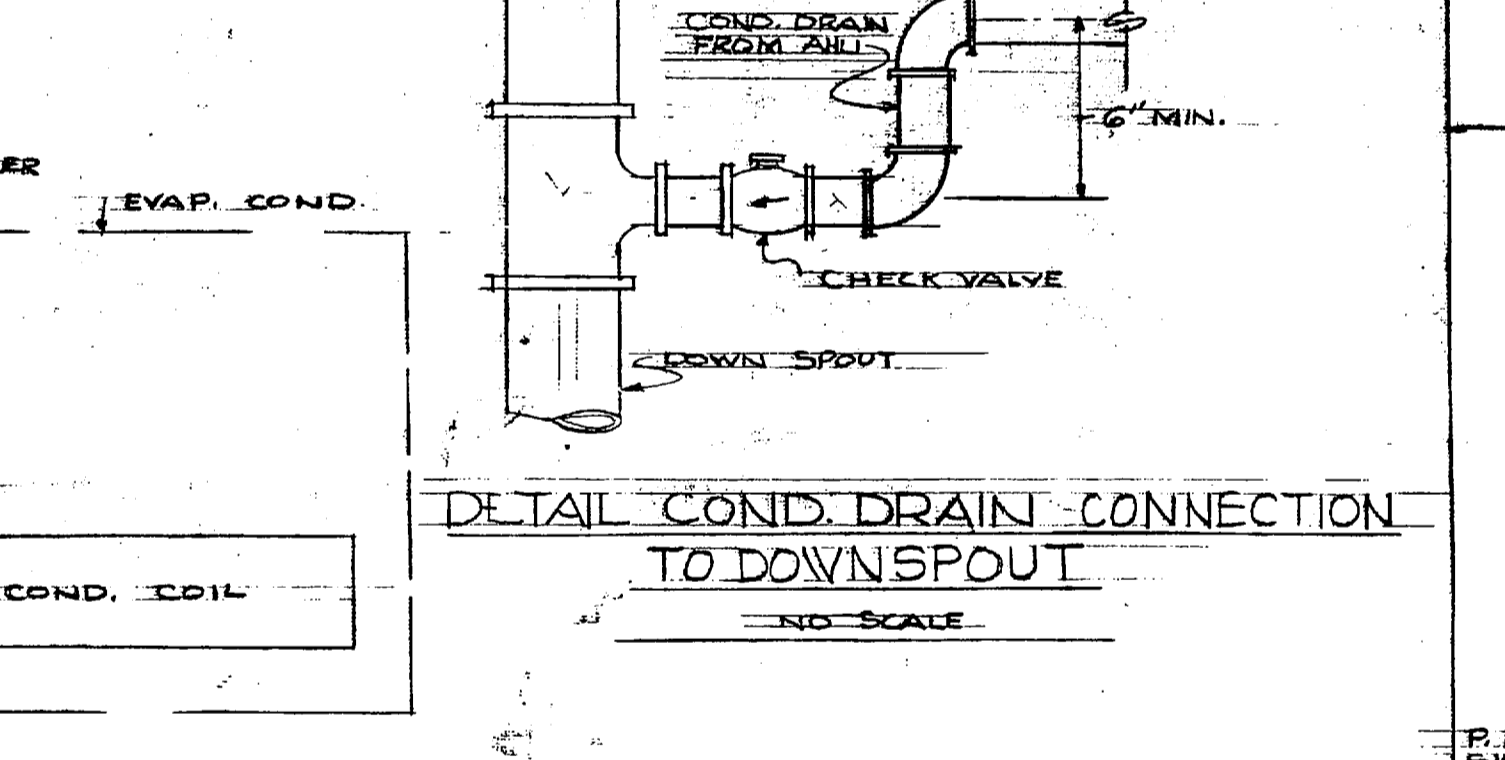
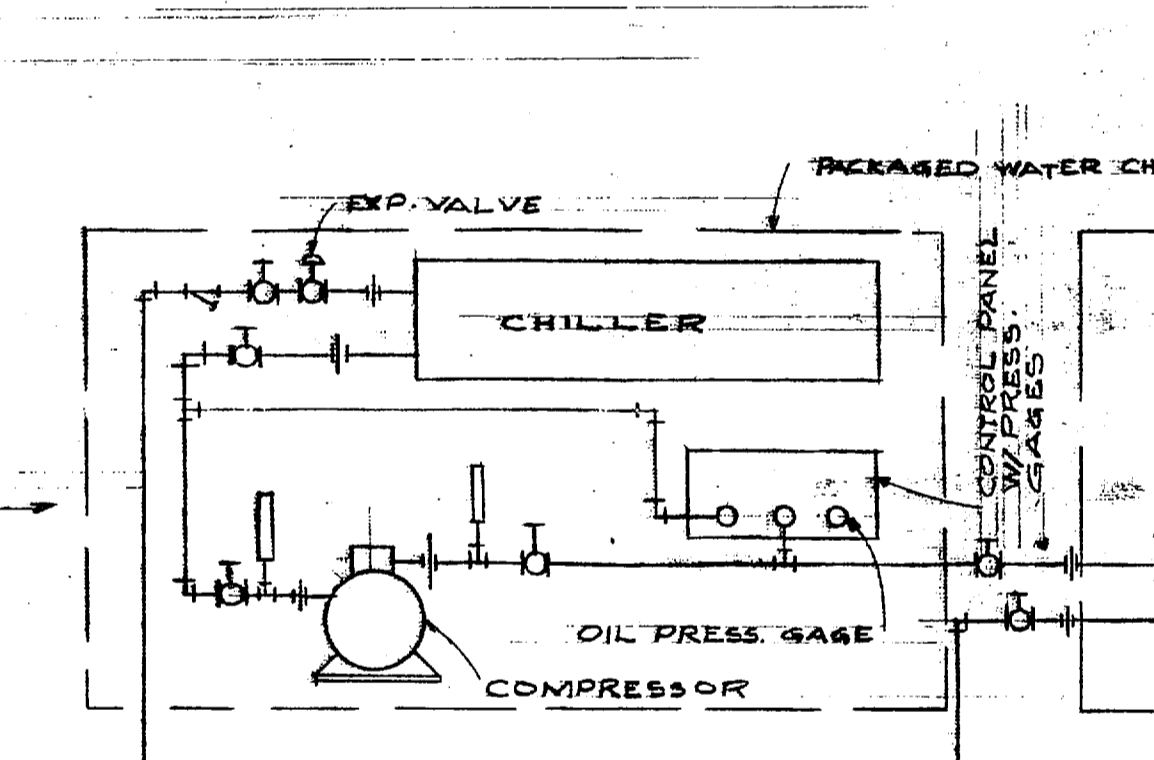
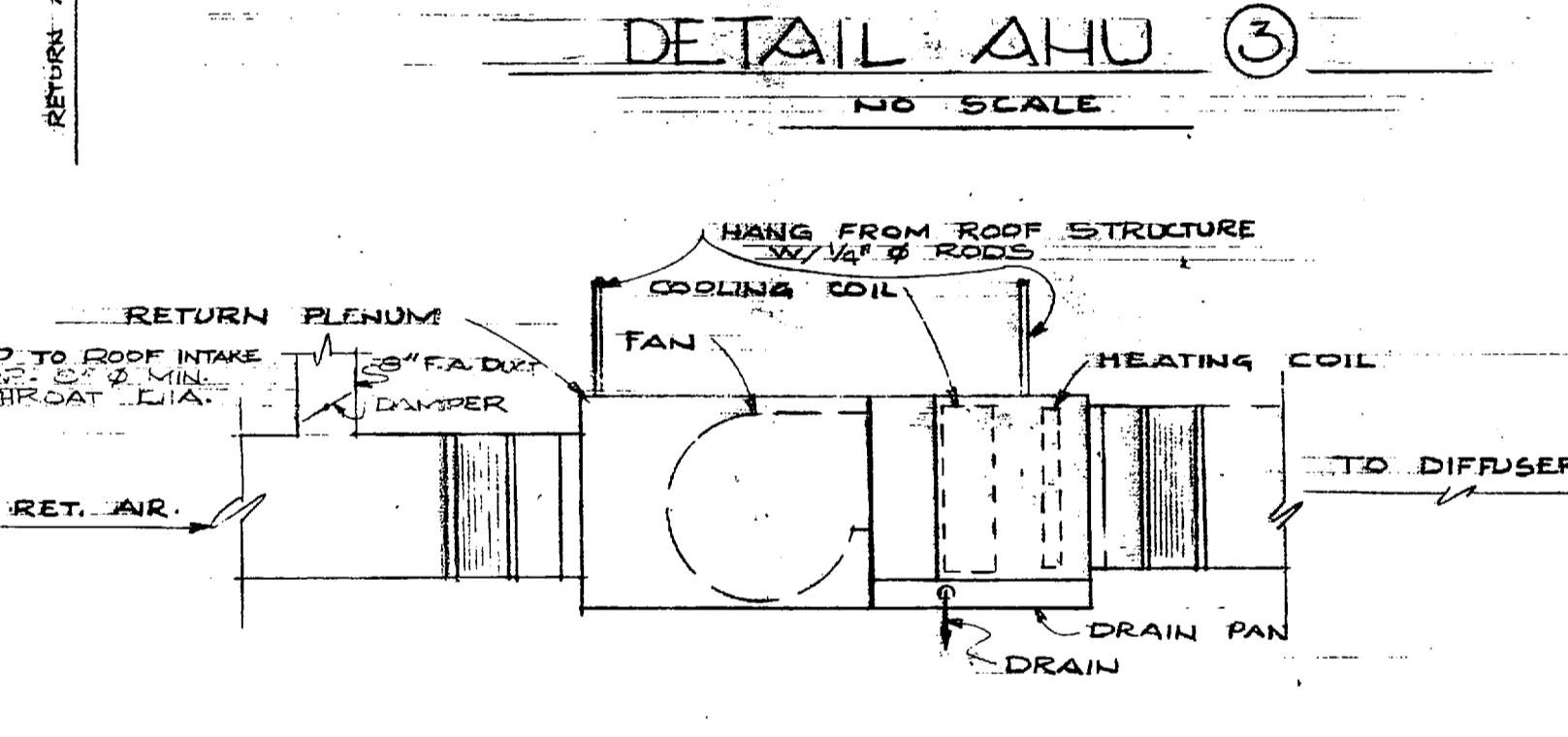
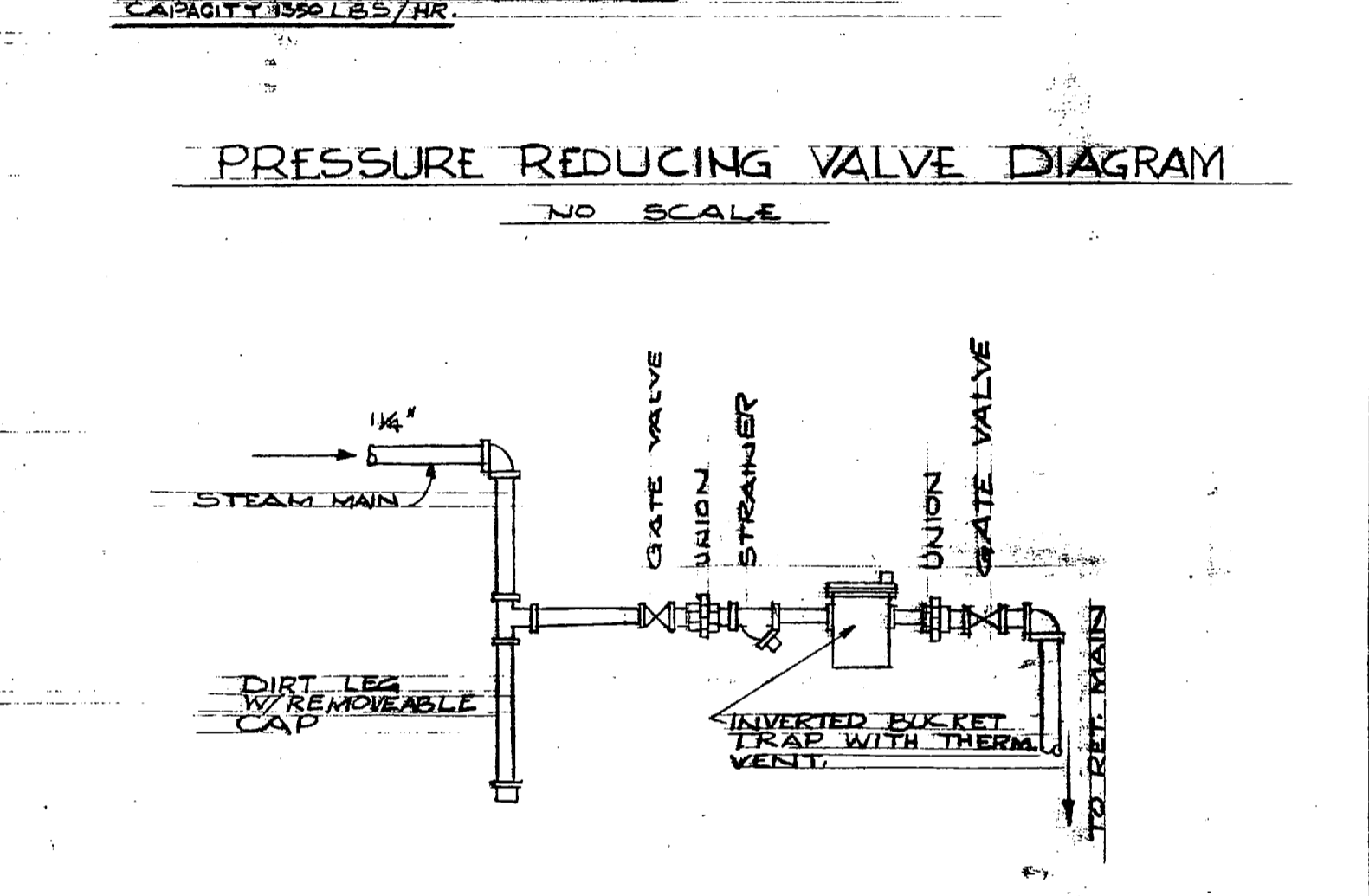
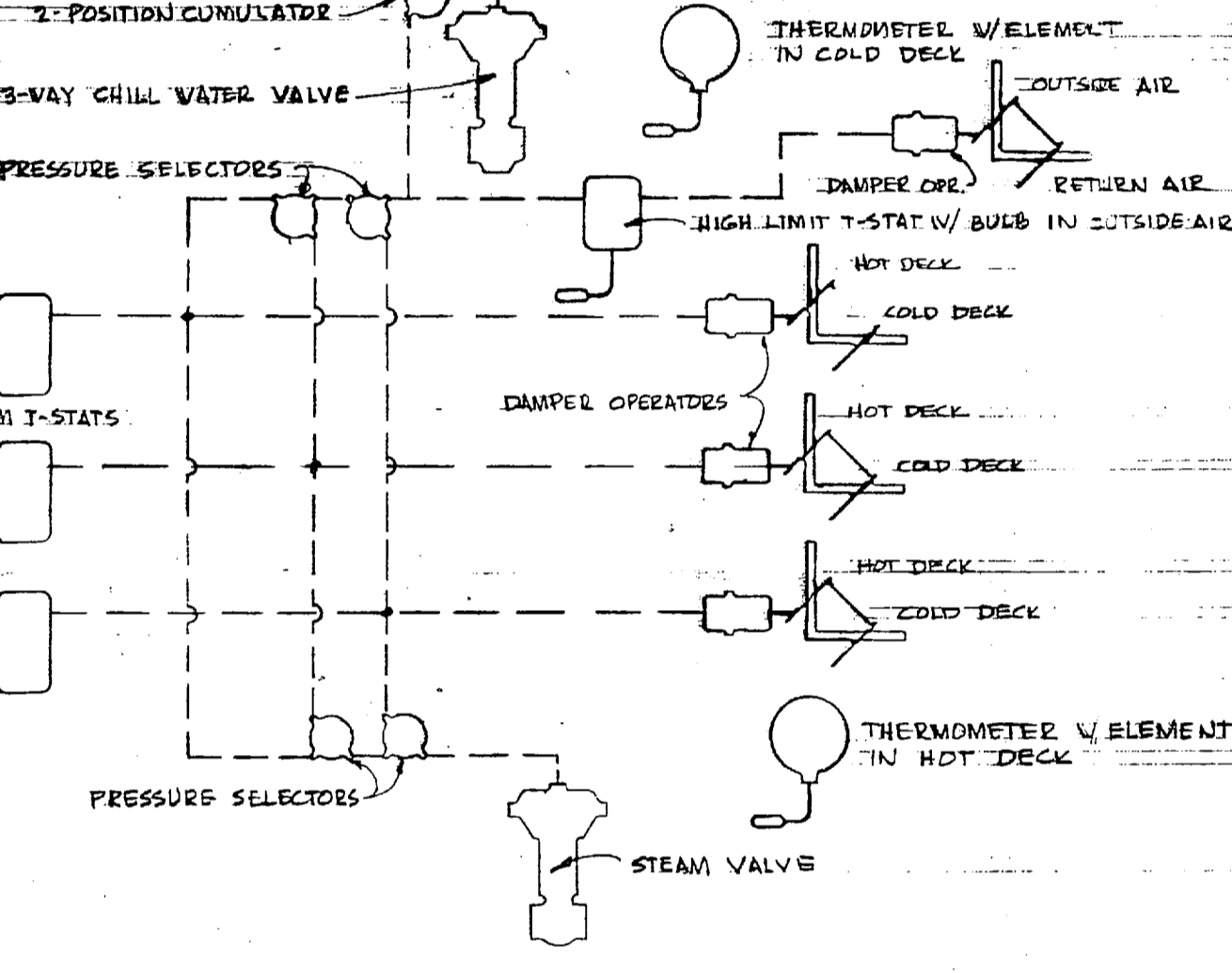
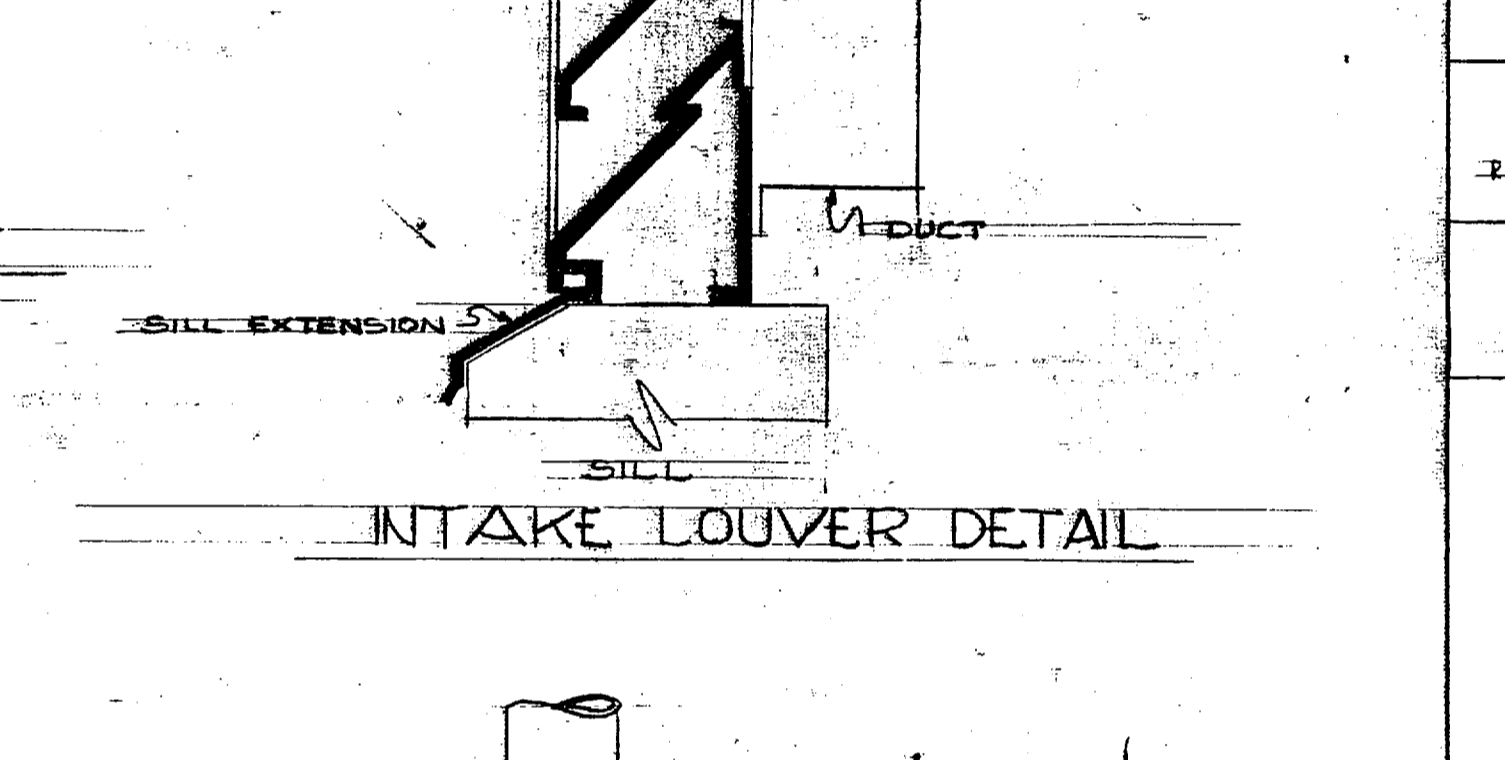
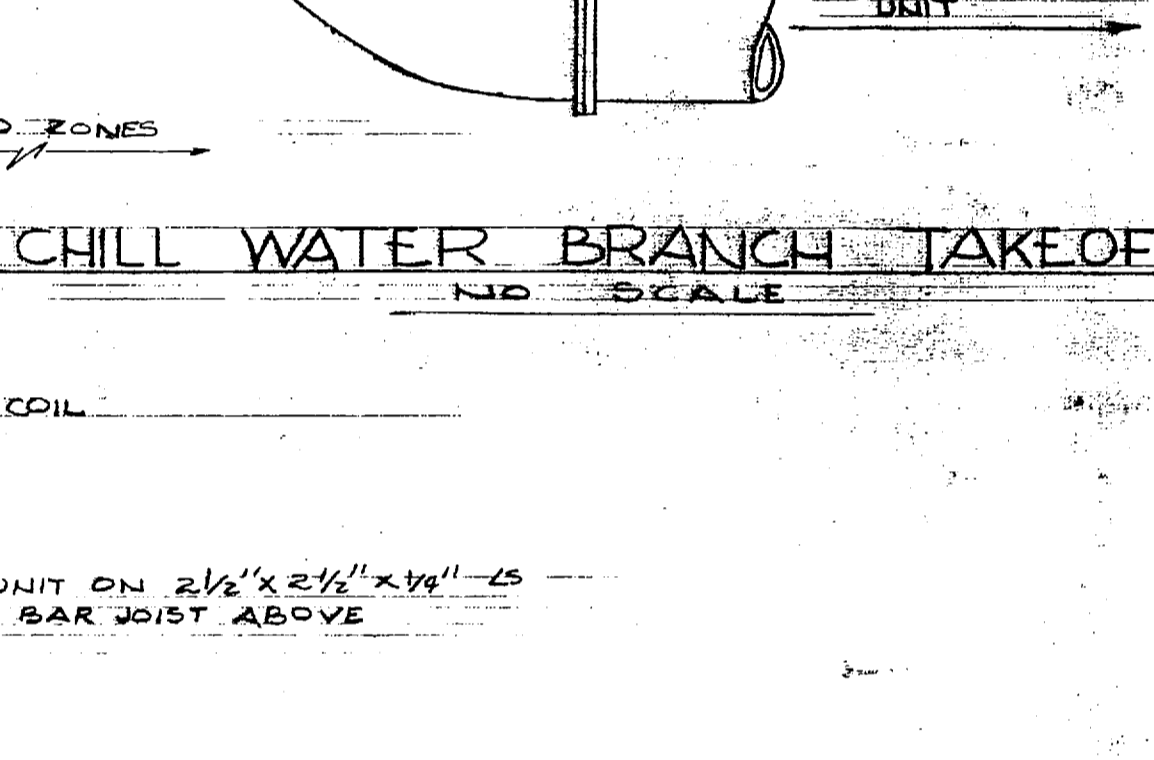
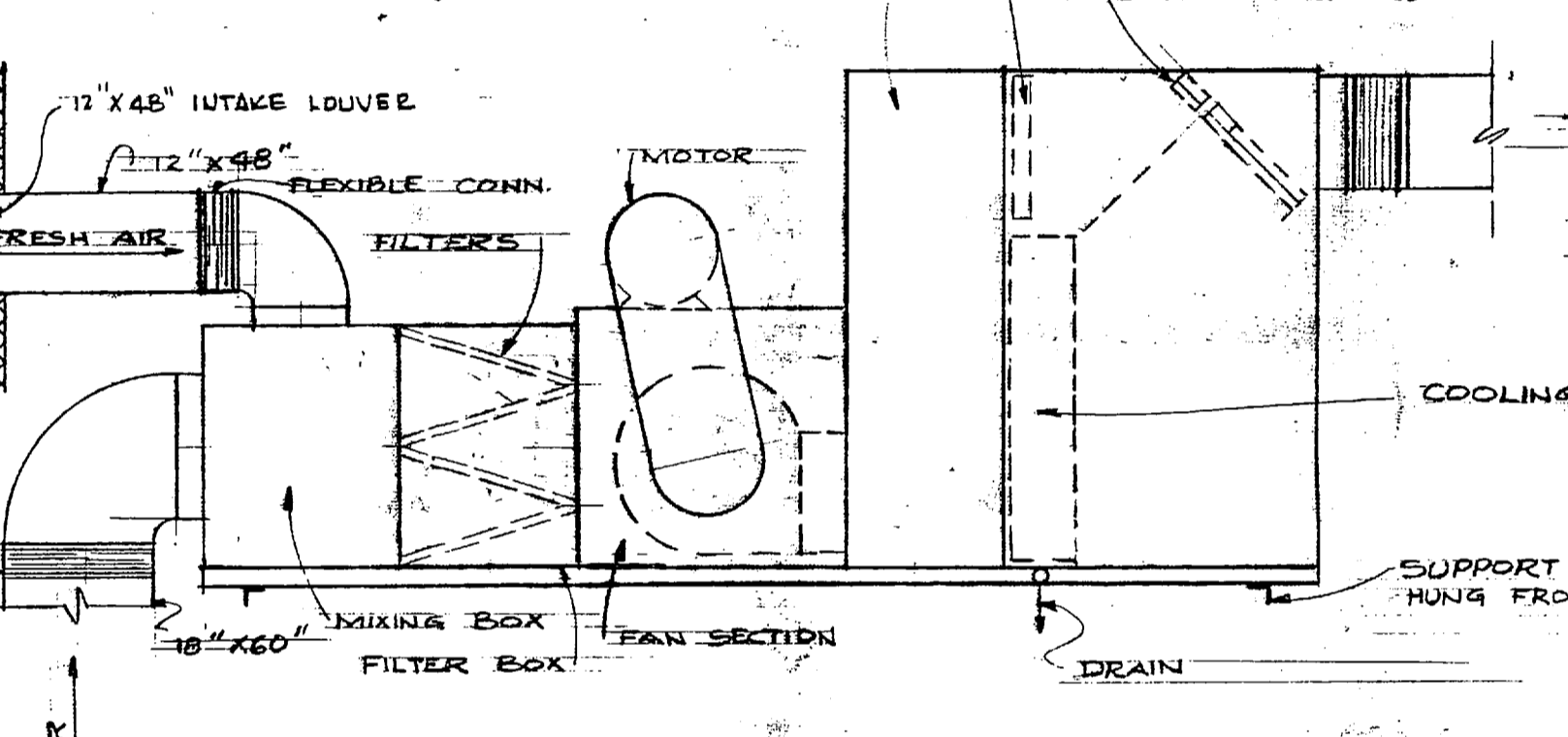
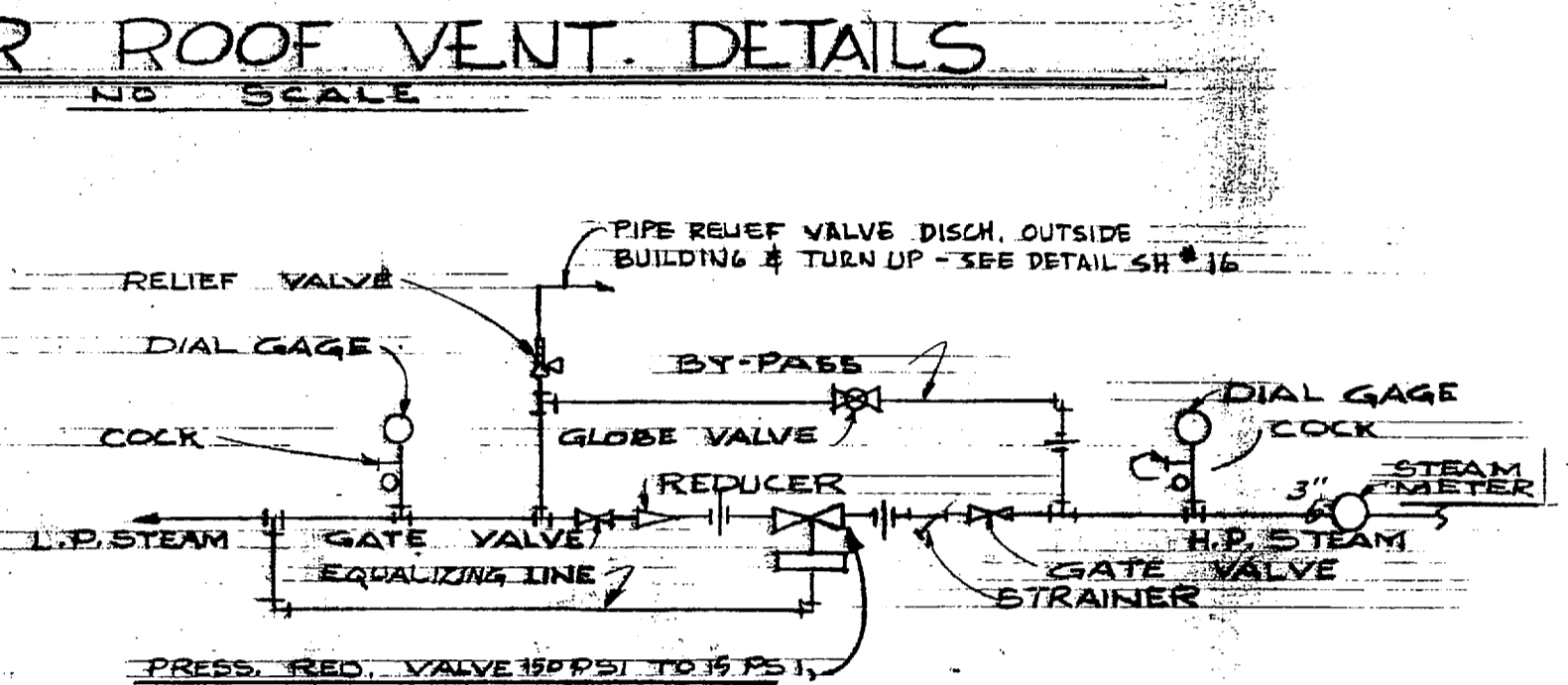
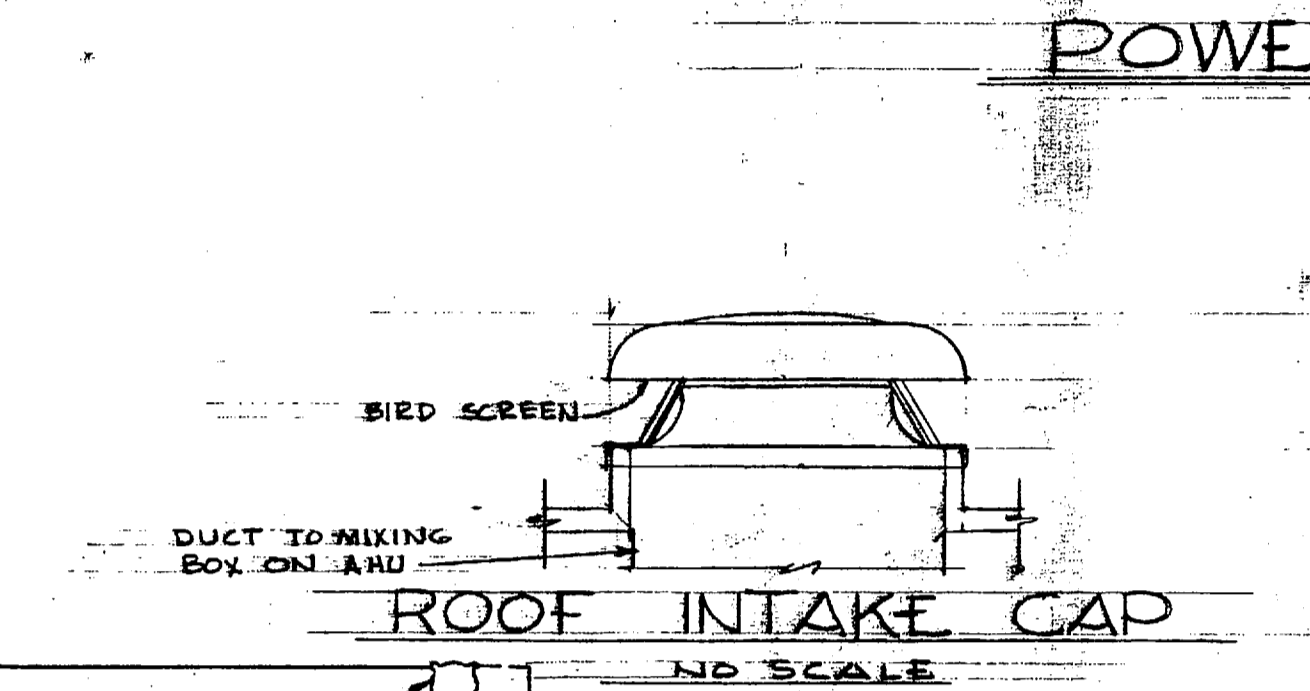
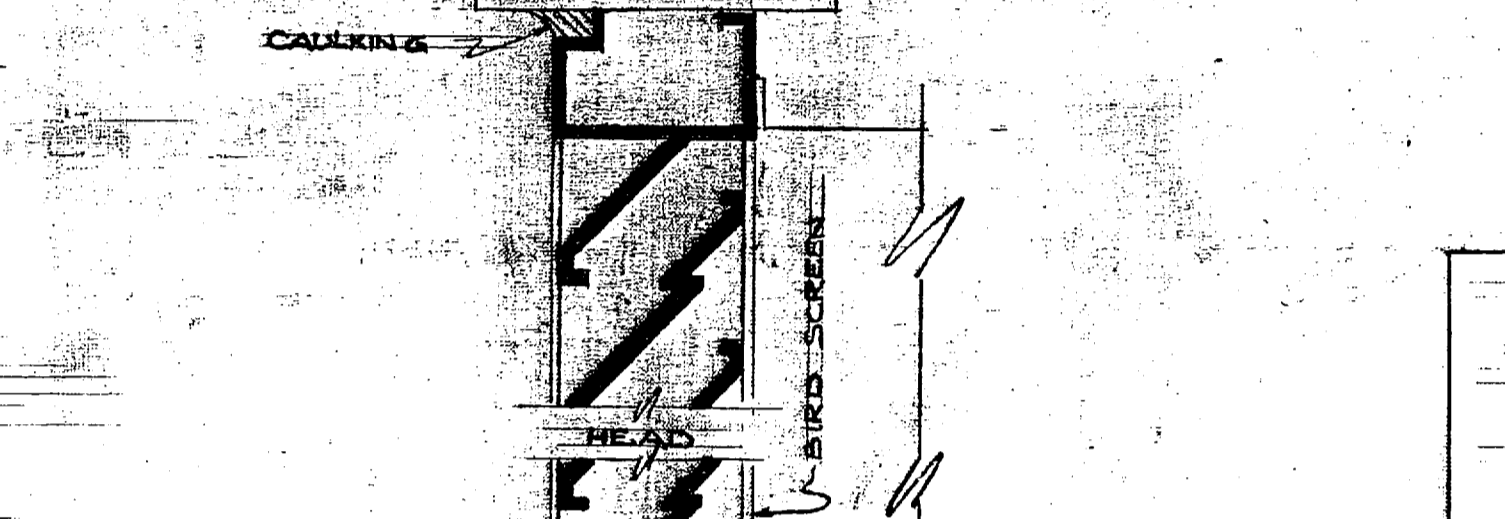
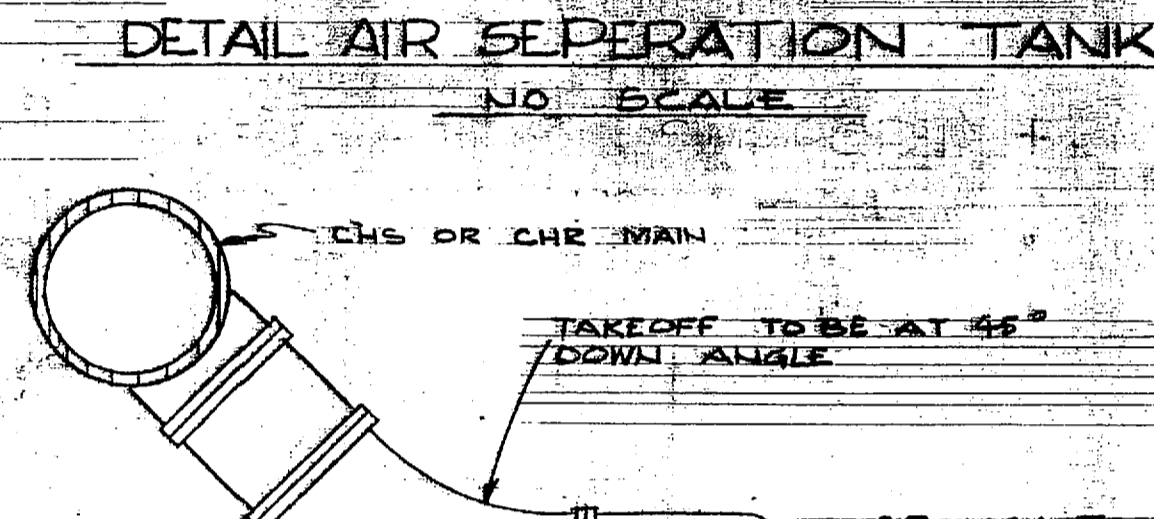
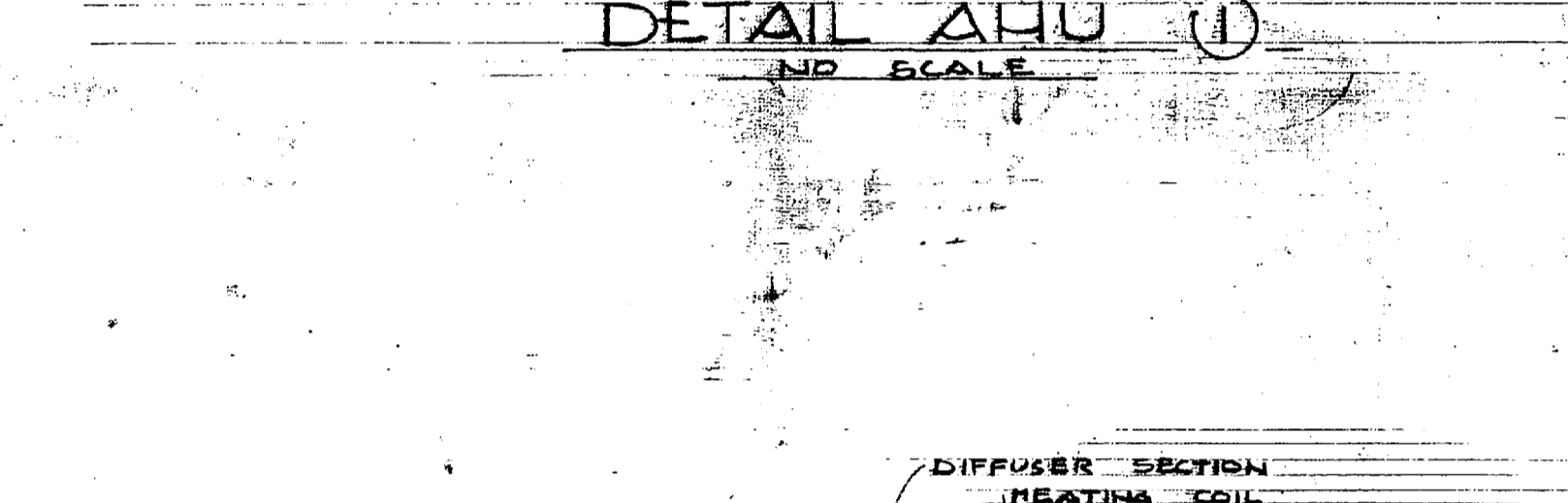
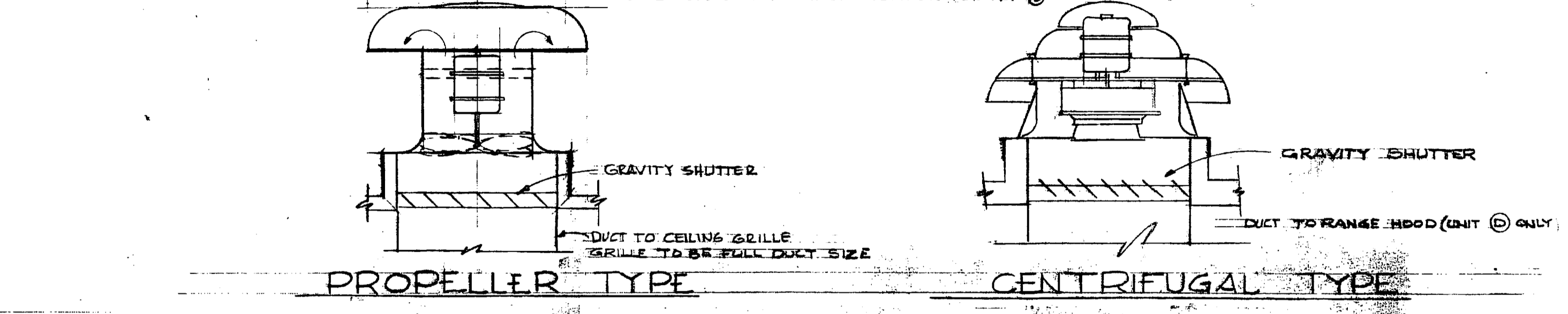
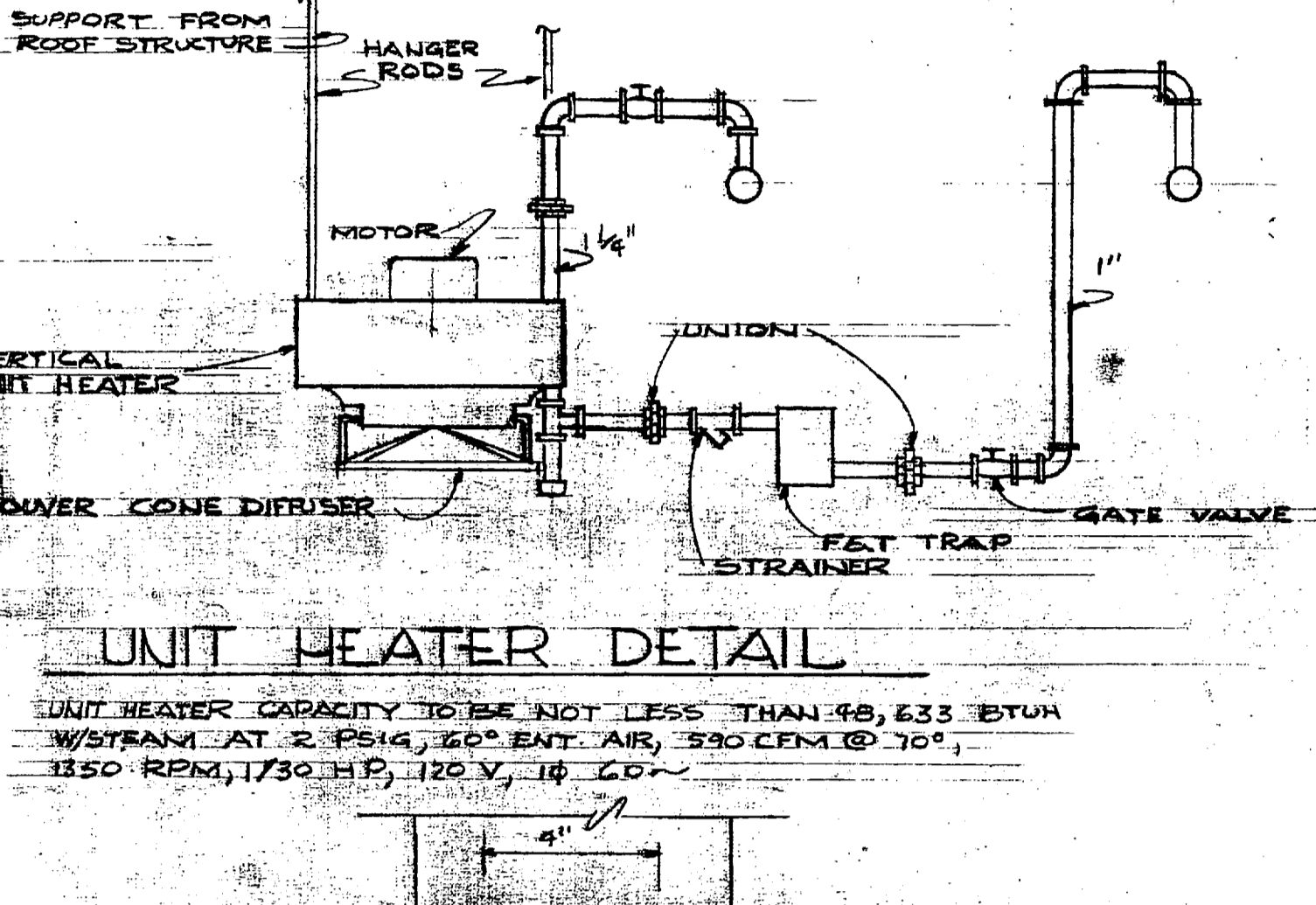
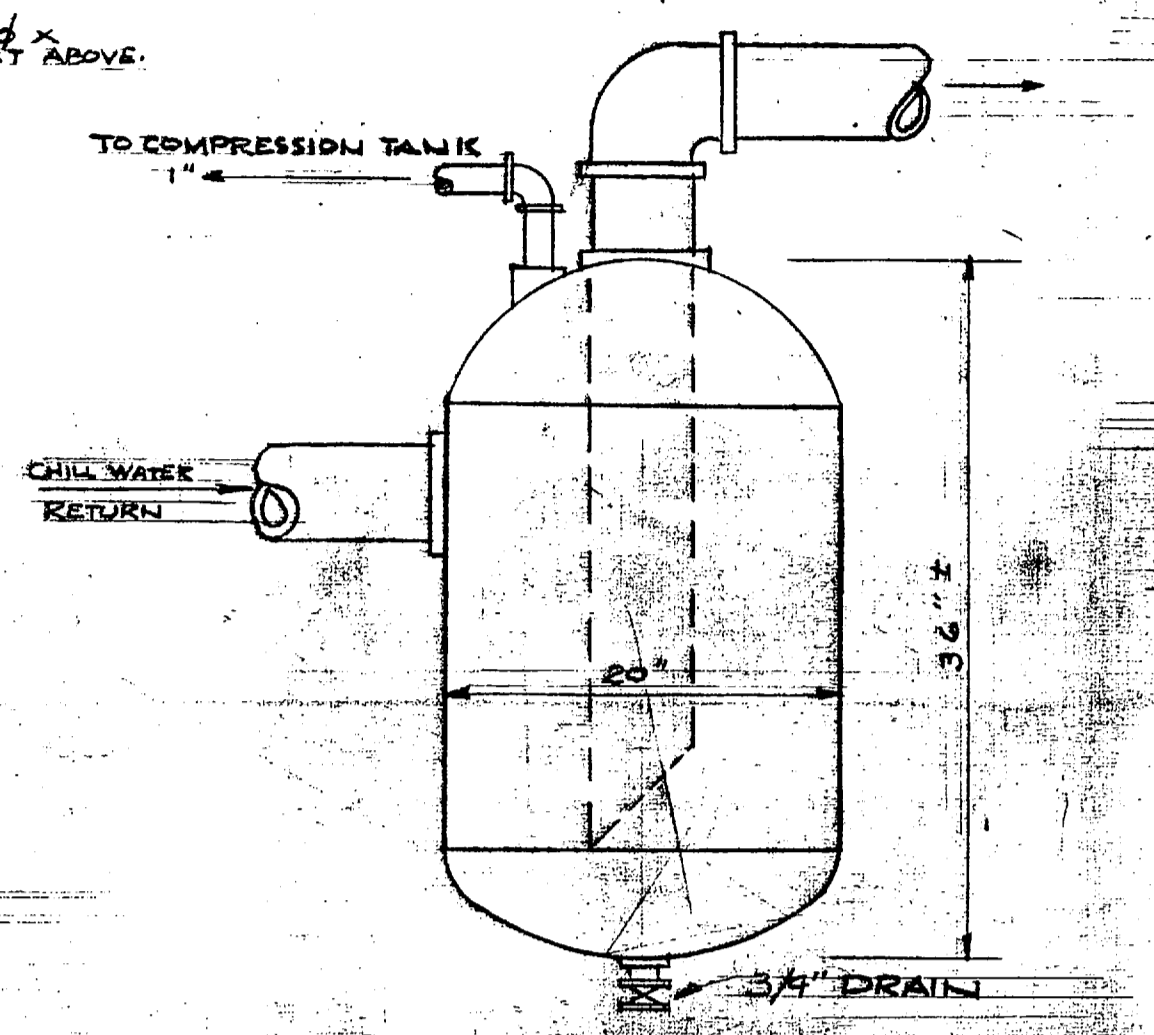
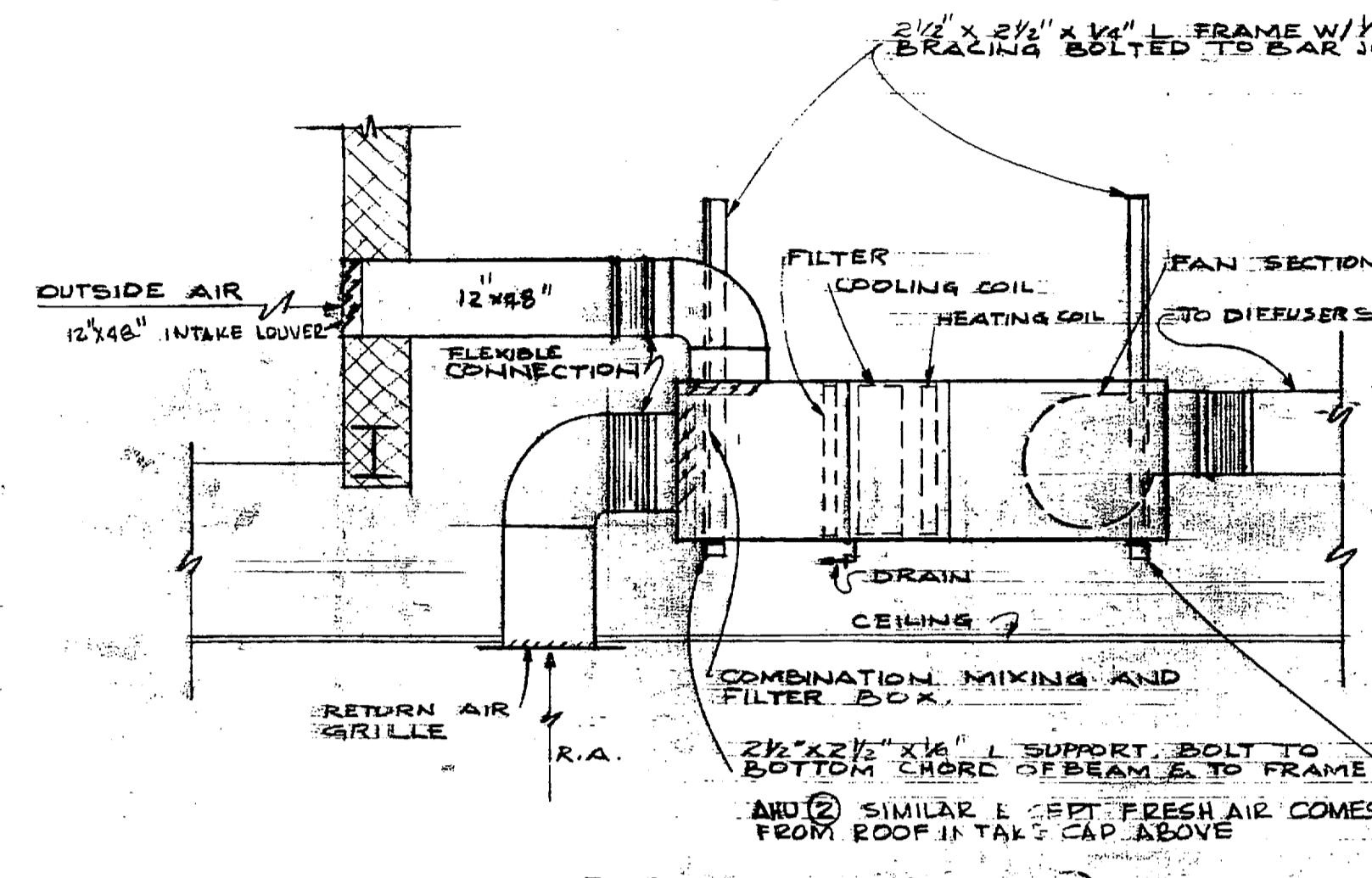


SCHEDULE OF HEATING & AIR CONDITIONING UNITS																													
SYMBOL	TYPE	TOTAL VENT		EXTERNAL S.P.	MAX. OUT VEL. FPM	MIN. H.R.	COOLING				HEATING				PIPE SIZE		ELECTRICAL												
		CFM	ICFM				CAPACITY BTUH	ENT. AIR °F	LVG. AIR °F	WATER GPM	ENT. TEMP. °F	CAPACITY BTUH	ENT. AIR °F	LVG. AIR °F	STEAM PSIA	COND. #/HR.	CHILL WATER °F	STEAM °F	COND. #/HR.	VOLTS	PHASE	CYCLES							
①	HORIZONTAL SINGLE ZONE	2500	1800	1/2"	1500	1	80,812	179,948	87.0	75.3	57.3	22.4	30.0	95	500	B	182,146	60	95.5	15	155	2"	2"	1 1/2"	1 1/2"	1"	208	3	60
②	"	1200	850	1/2"	1500	2/4	33,281	36,928	87.6	74.0	56.5	22.8	14.1	95	500	B	28,312	60	97.5	15	50	1 1/2"	1 1/2"	1"	208	3	60		
③	MULTIZONE "	6504	4582	1/2"	1500	3	141,645	317,124	84.6	71.6	56.3	21.8	65.4	95	500	B	226,974	60	93.1	15	144	2 1/2"	2 1/2"	1 1/2"	208	3	60		
④	SINGLE ZONE	335	45	1/10"	1500	1/25	7,674	10,081	84.2	67.6	51.0	21.4	21.0	95	500	B	11,248	60	92.3	15	12	3/8"	1"	1/2"	120	1	60		

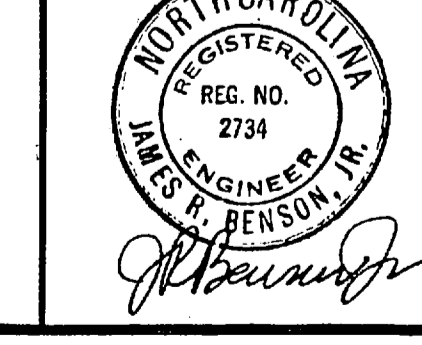
* MULTIZONE UNIT TO HAVE 3 ZONES AS FOLLOWS: SNACK BAR - 3093 CFM, BEER BAR - 1936 CFM, LOBBY & TOILETS - 1977 CFM.

SCHEDULE OF POWER ROOF VENT.									
SYM	TYPE	CFM	B.P.	RPM	H.P.	ELEC. CHARACTERISTICS	REMARKS		
①	CENTRIFUGAL	6750	1/8"	1750	3	208 V, 3Ø, 60 V	OFF-ON-AUTO SWITCH AUTO-INTERLOCK W/ DRILL		
②	PROPELLER	181	1/8"	1850	1/80	120 V, 1Ø, 60 V			
③	"	600	1/8"	1850	1/111	120 V, 1Ø, 60 V			
④	CENTRIFUGAL	3240	1/8"	1160	1/2	120 V, 1Ø, 60 V	2 1/2" FEED, SLOW SPEED 1/2" MAX. SPEED "		
⑤	"	1500	1/8"	855	1/8	120 V, 1Ø, 60 V	INTERLOCK WITH AIR UNIT ON SAME CIRC.		
⑥	PROPELLER	150	P.C.I.			120 V, 1Ø, 60 V	PACKAGED CEILING TYPE W/ ROOF JACK		

* PROVIDE 2 FEED SWITCH WITH OFF POSITION FOR REV.



CATEGORY CODE NO. 740 40



ARCHITECTURAL ASSOCIATES
LESLIE N. BONEY, ARCHITECTS
DATE: JUNE 10, 1963
SUBMITTED BY HENRY VON OESEN & ASSOCIATES

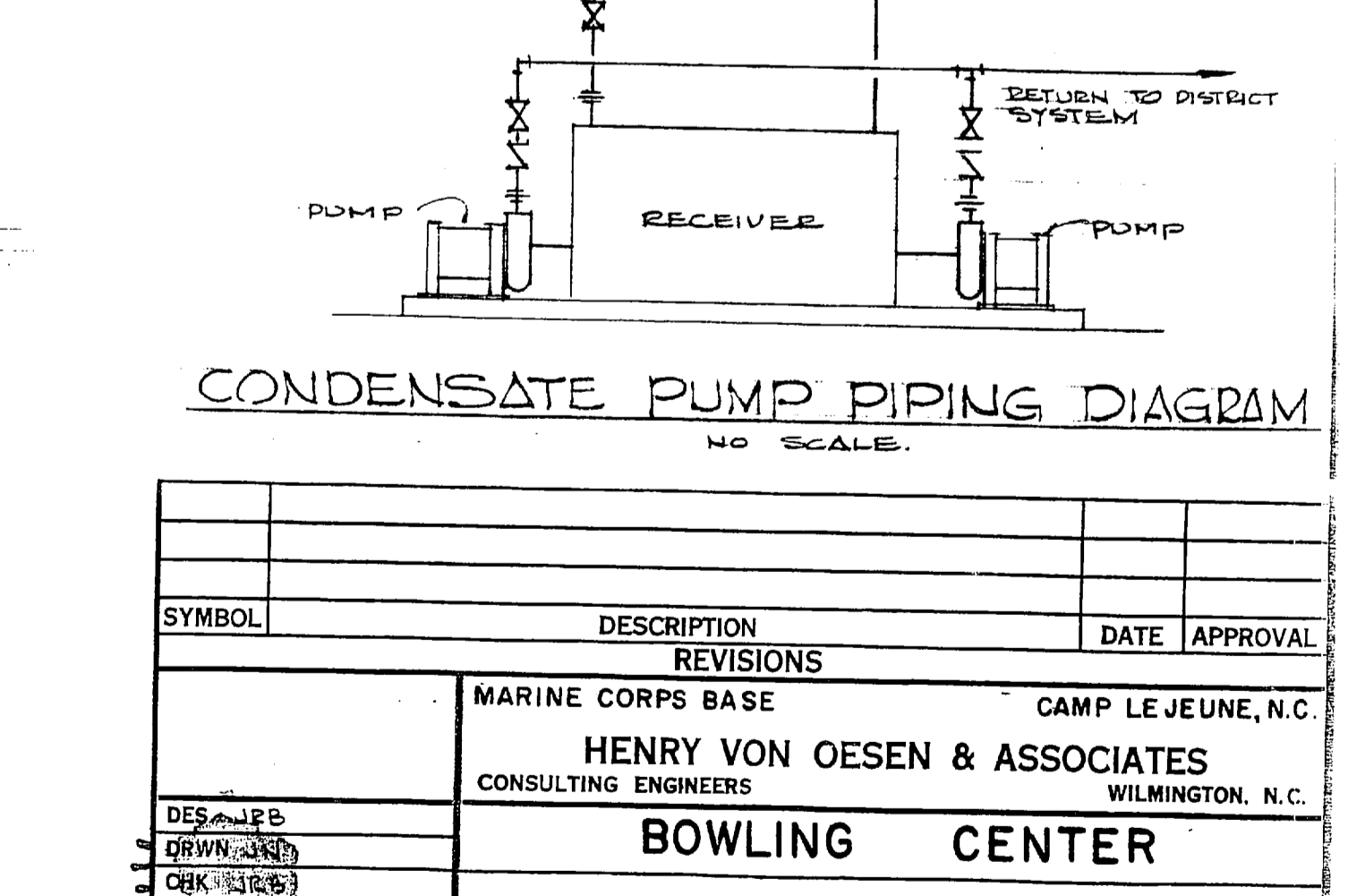
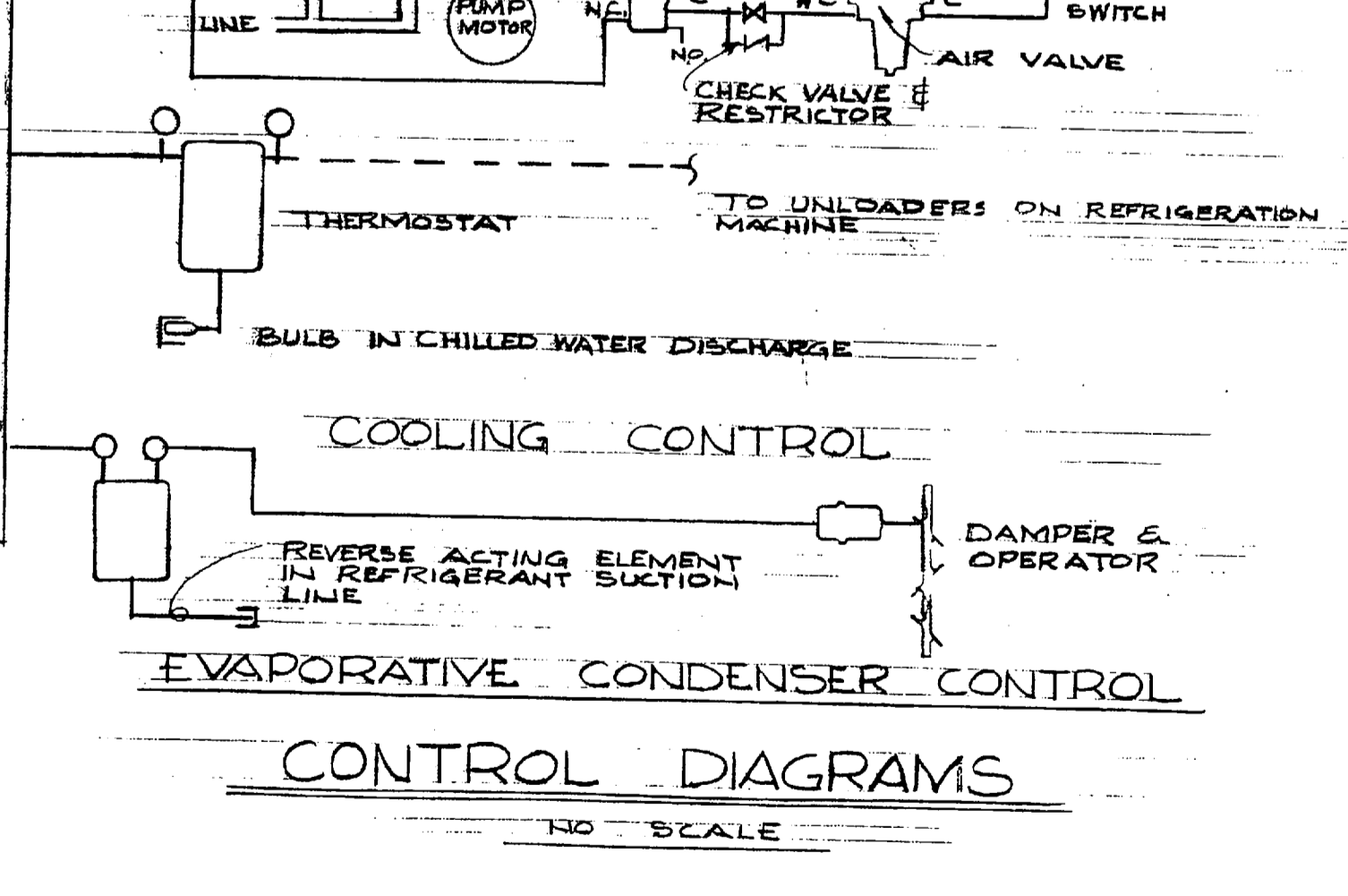
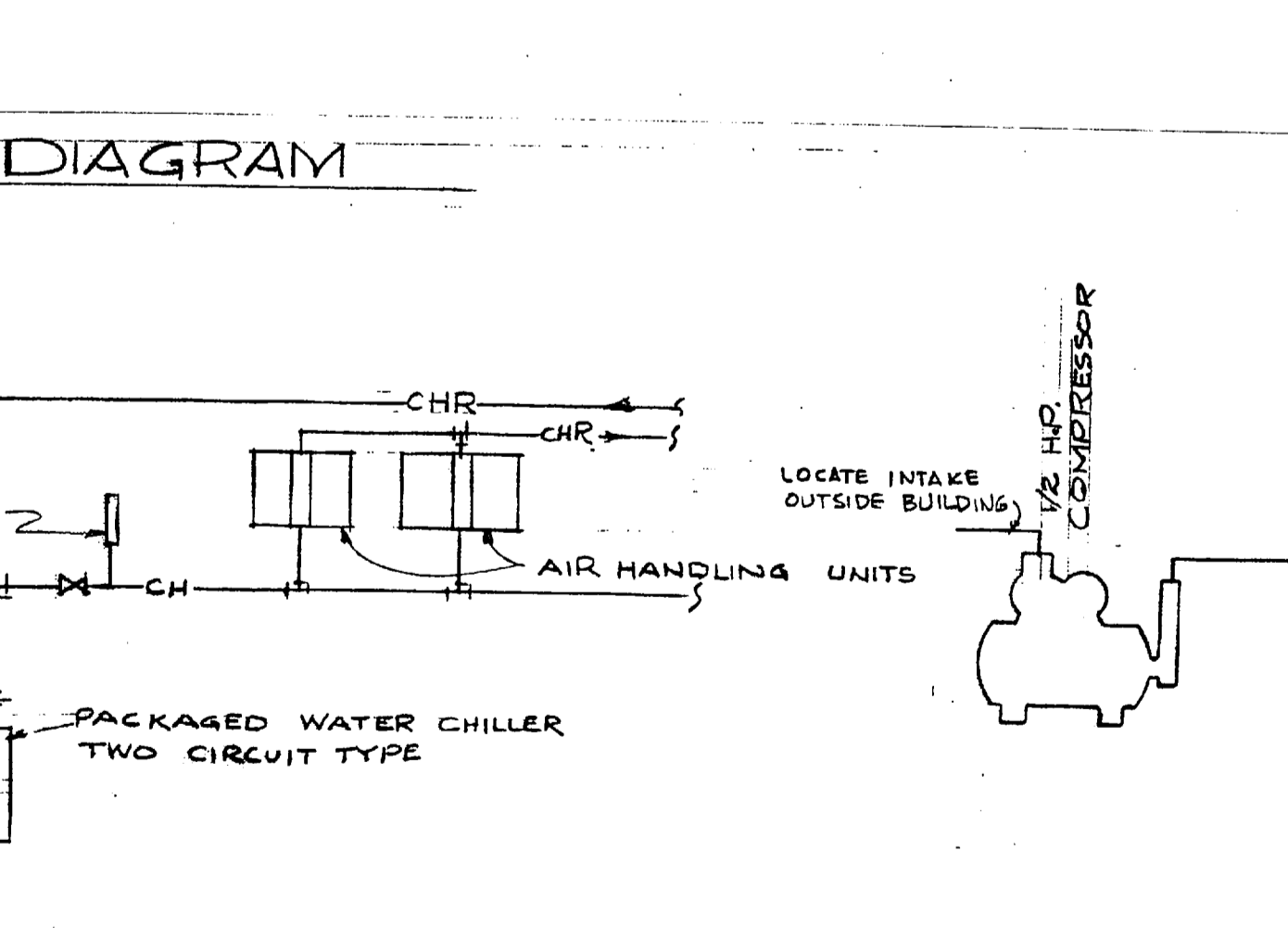
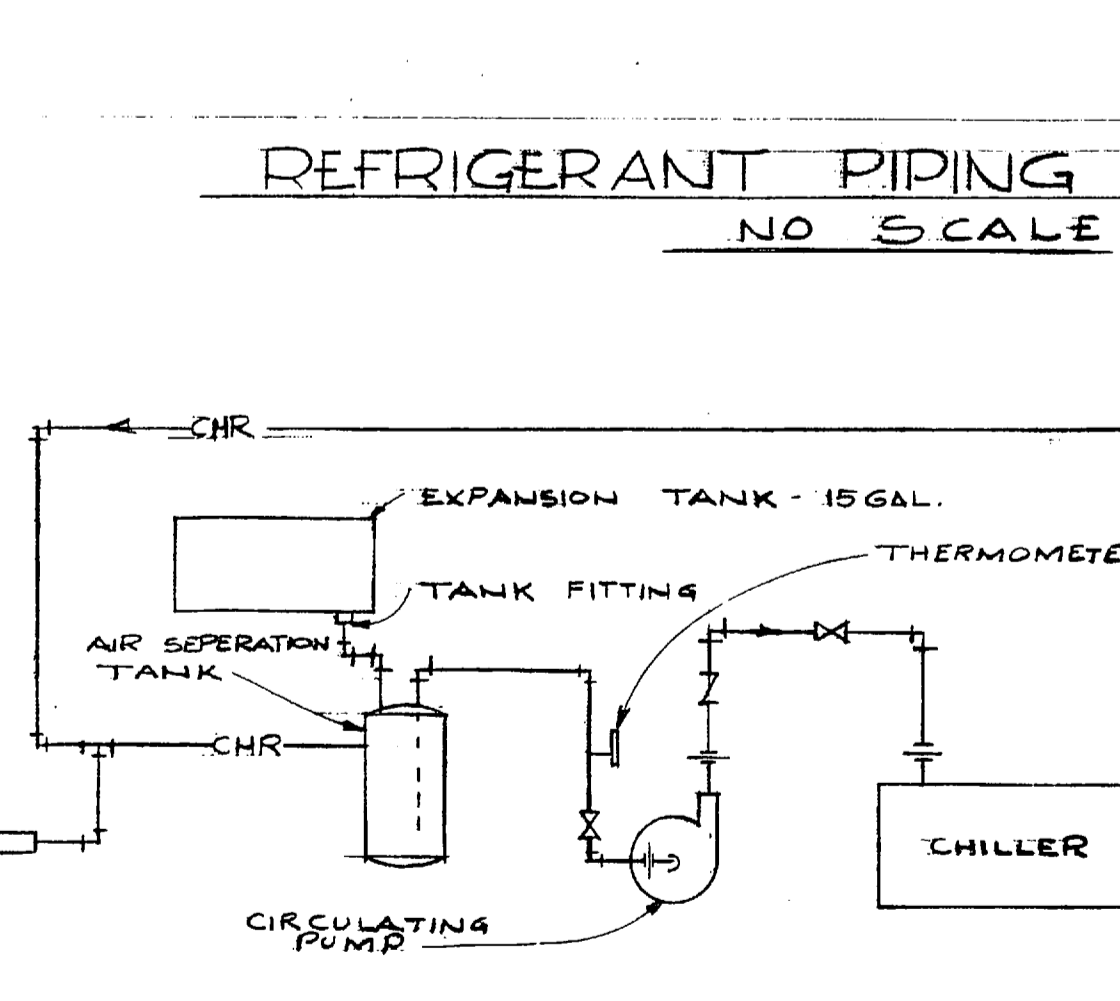
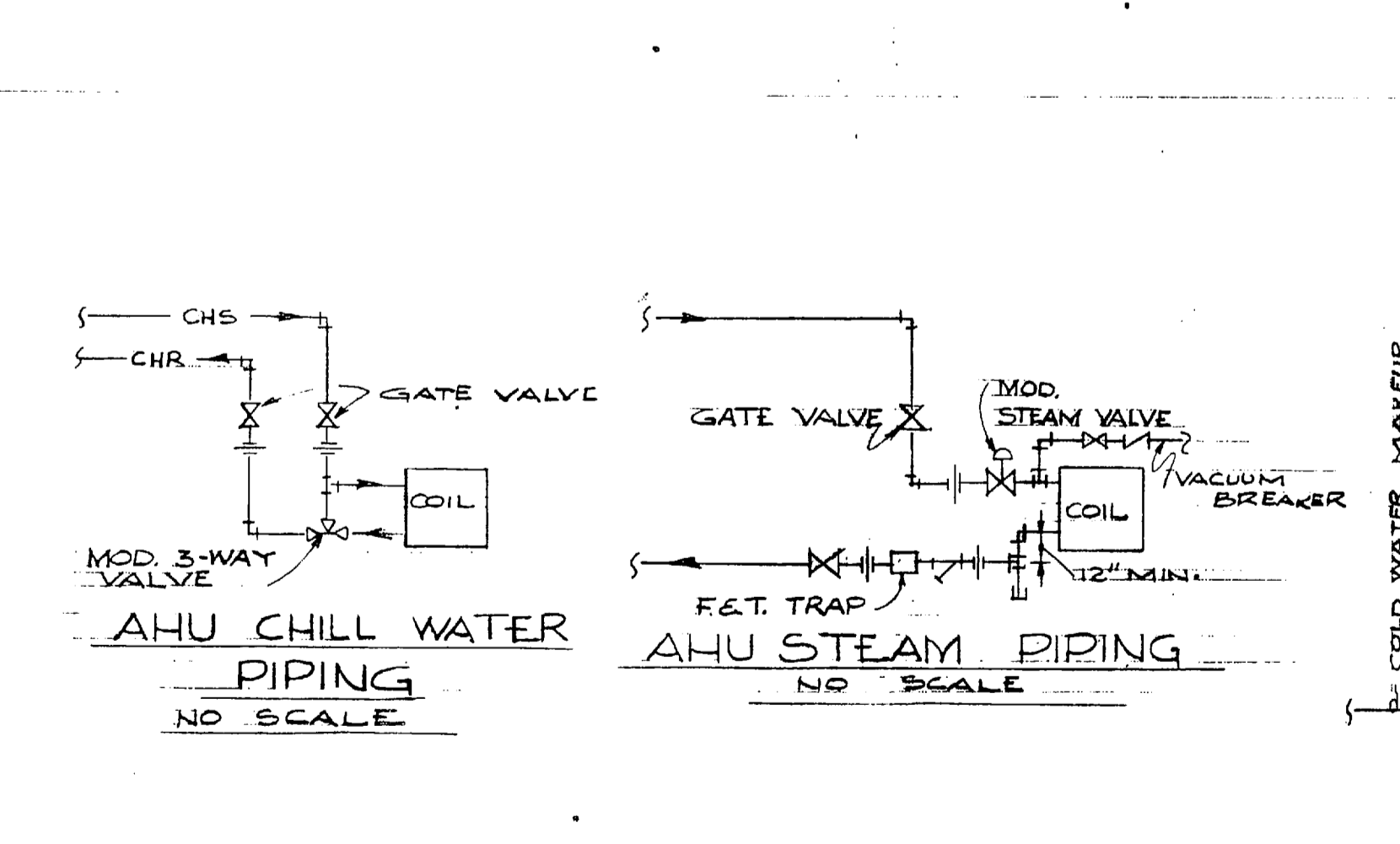
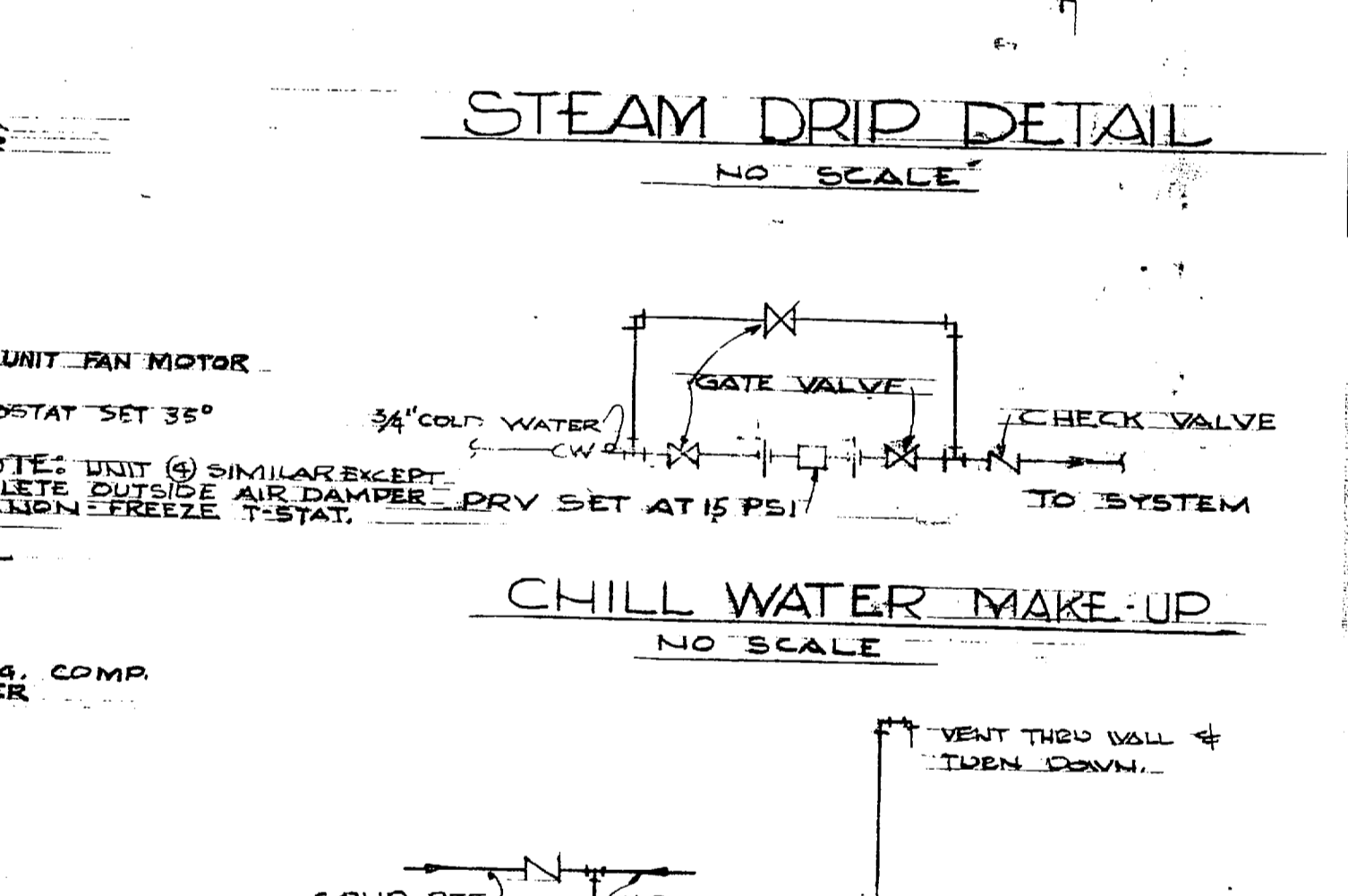
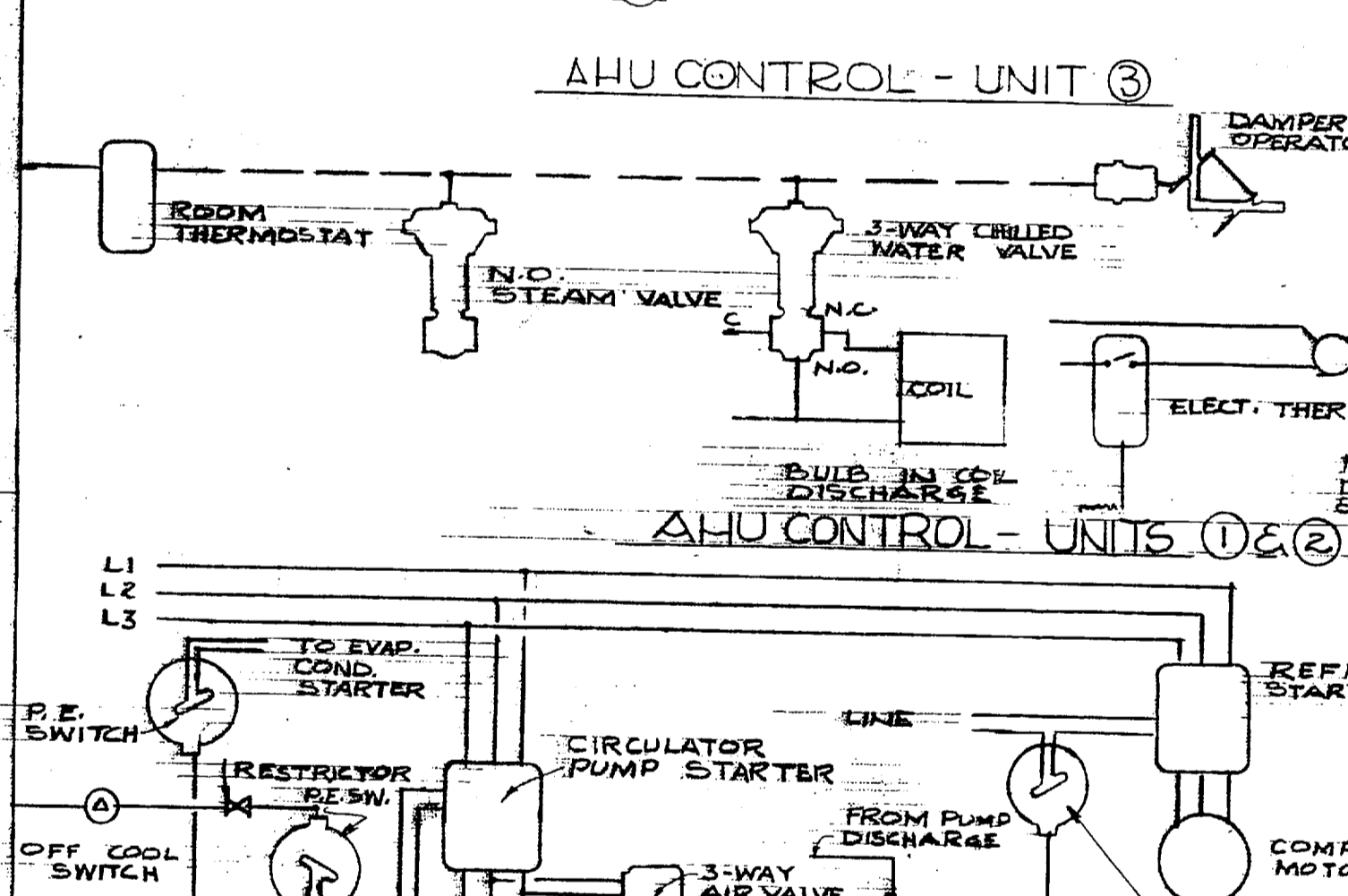
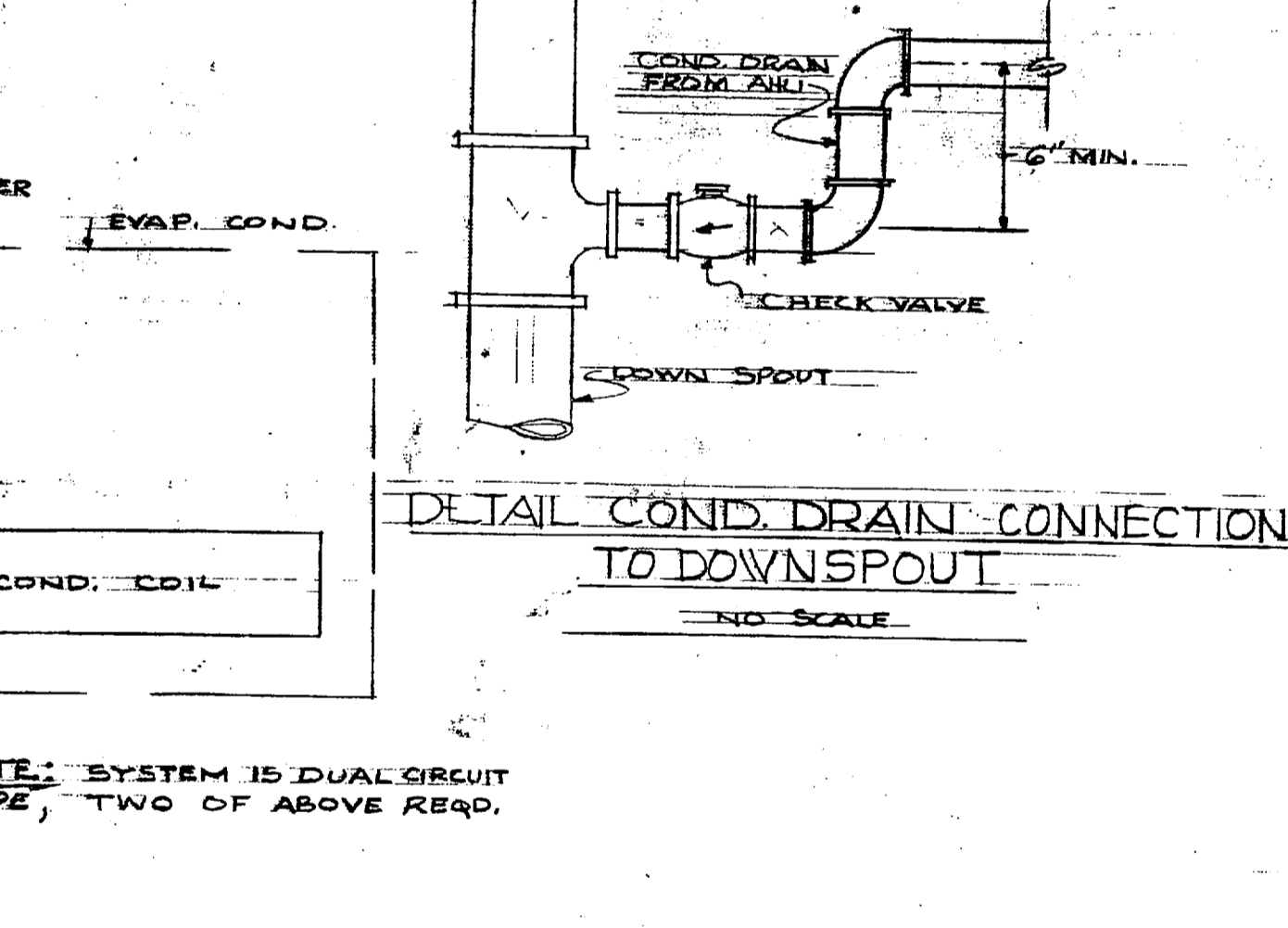
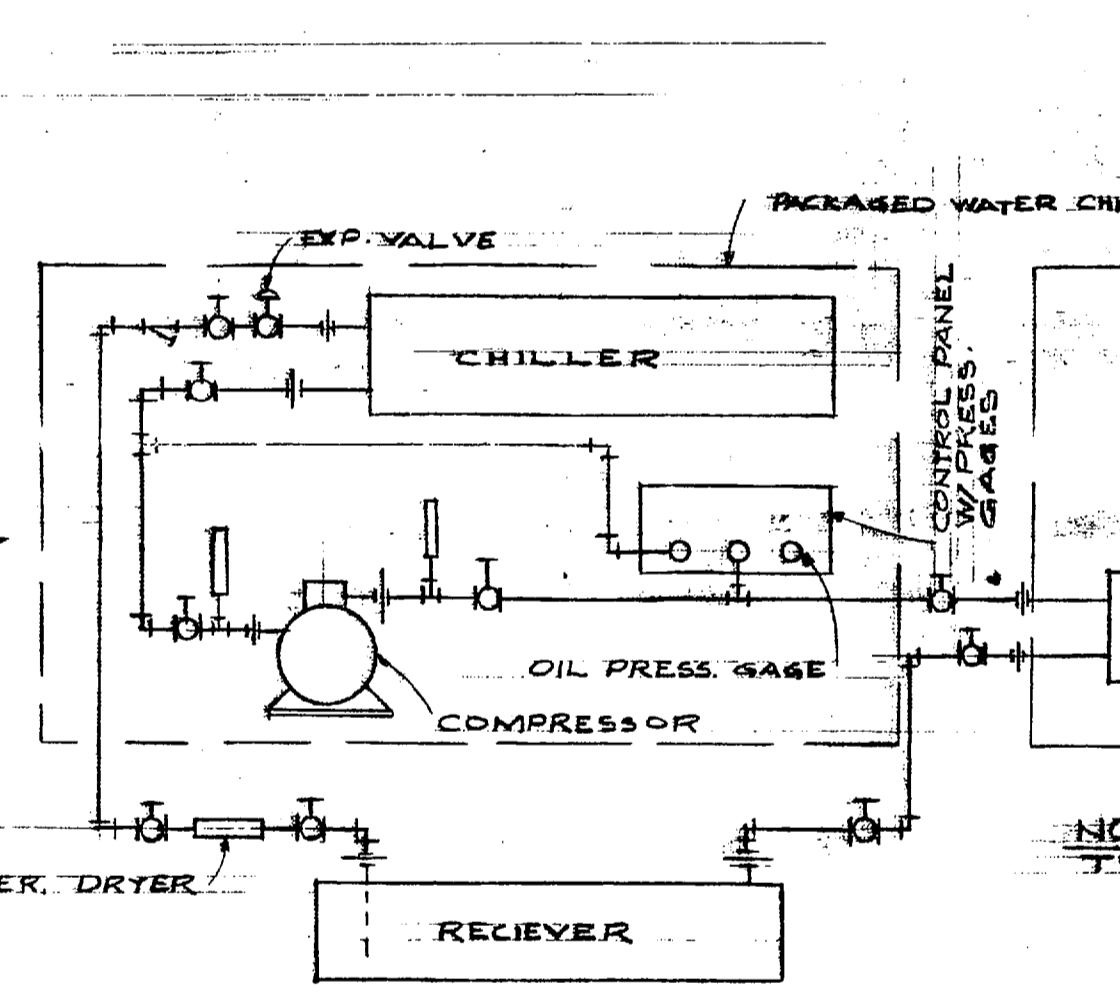
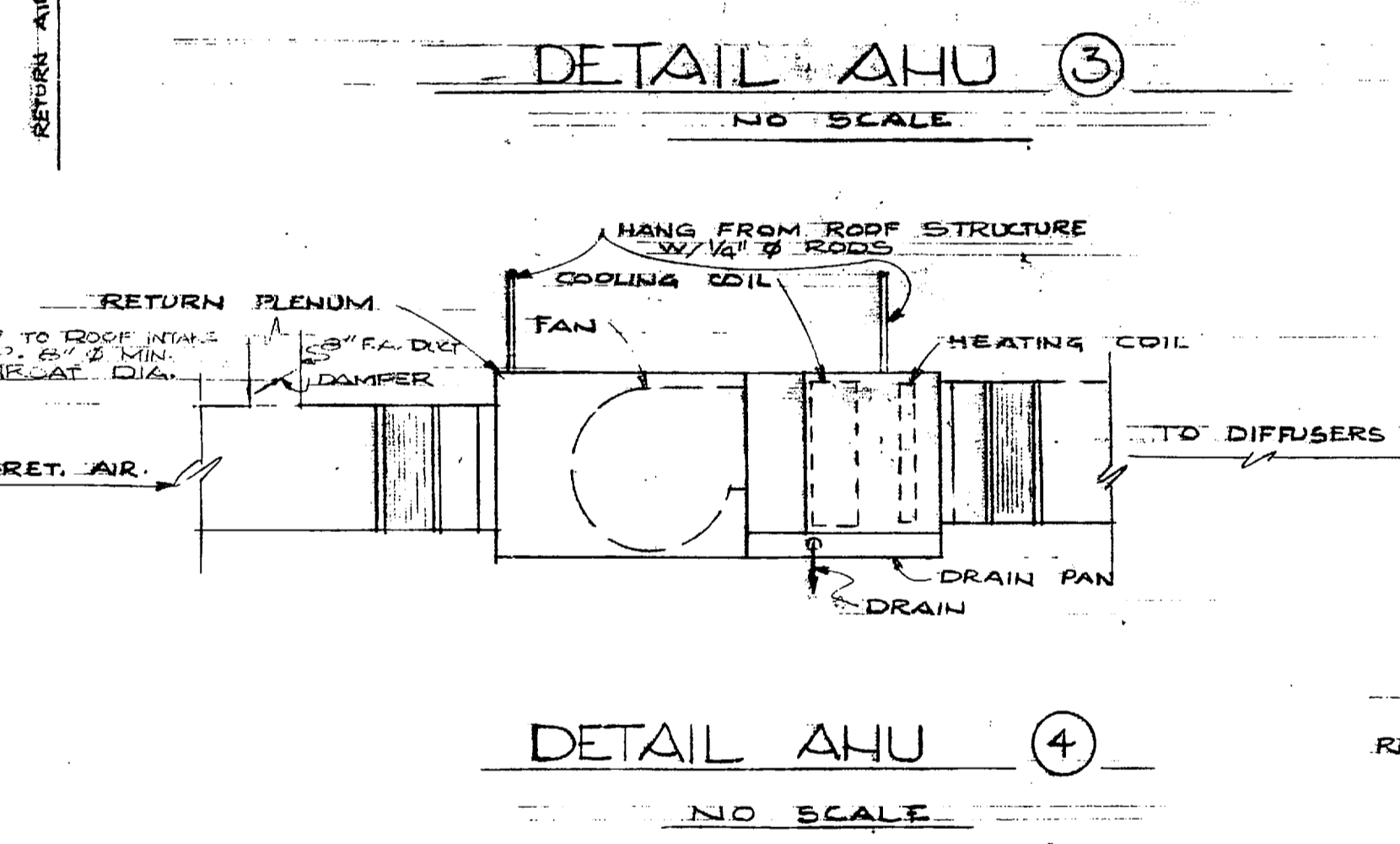
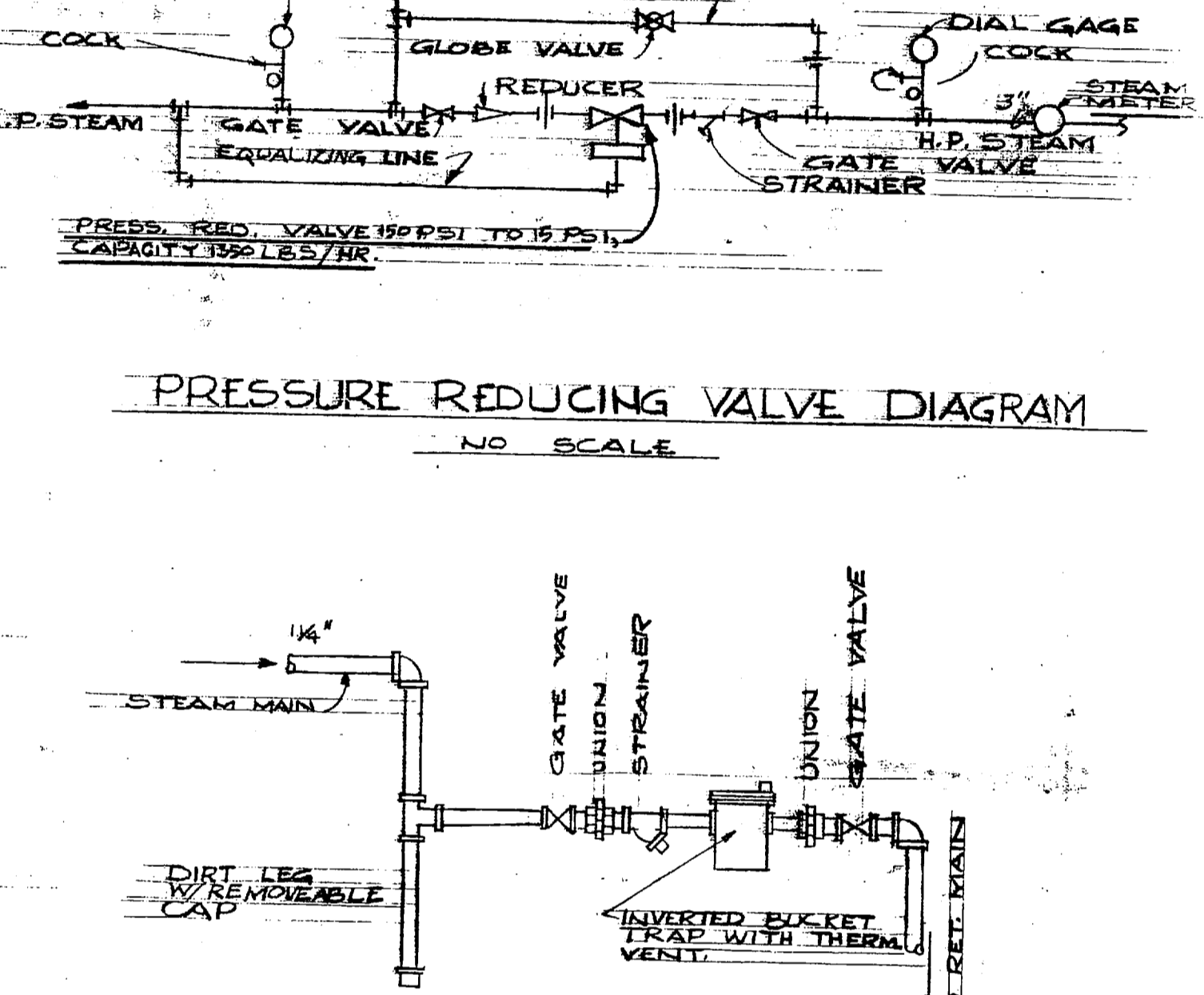
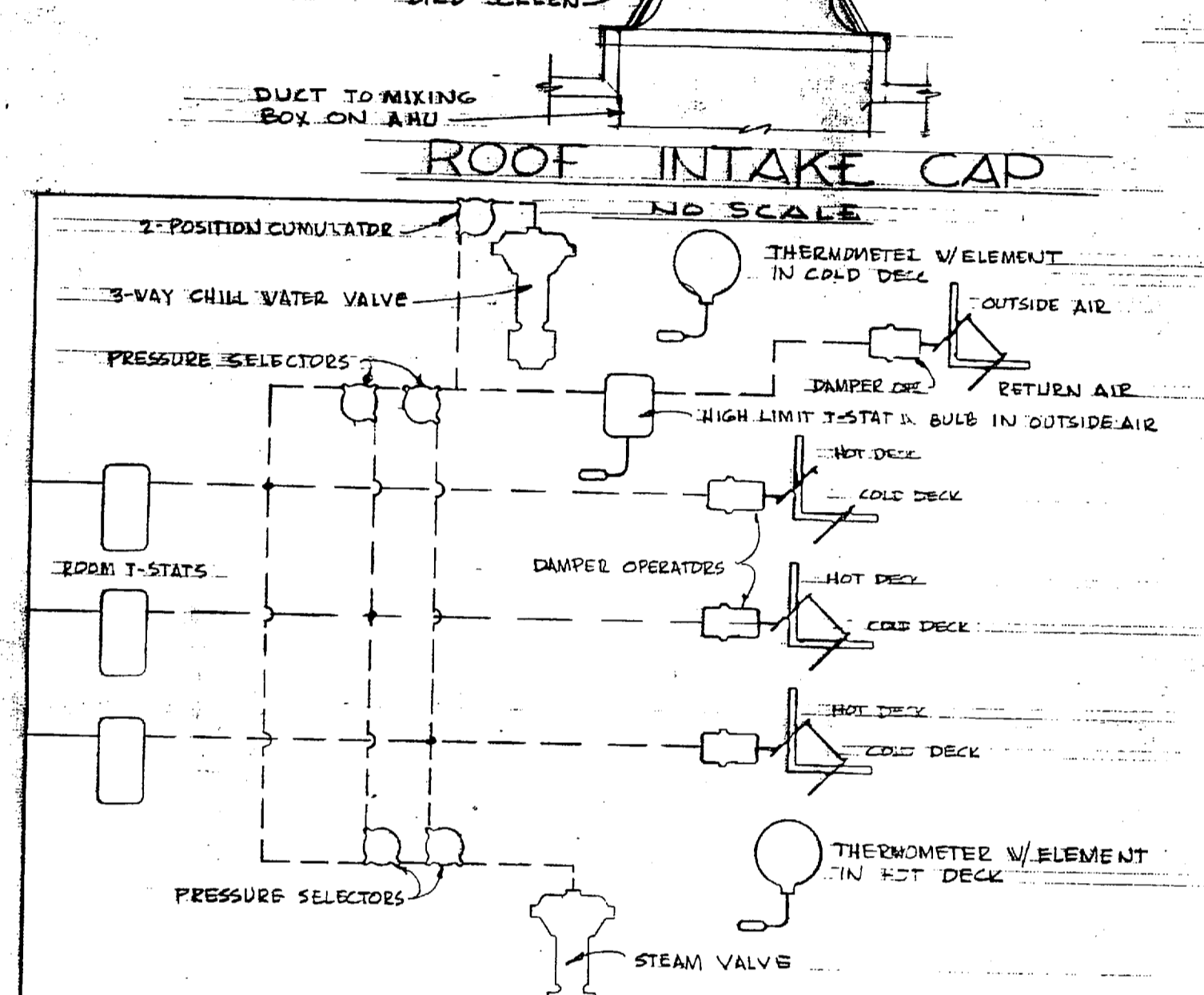
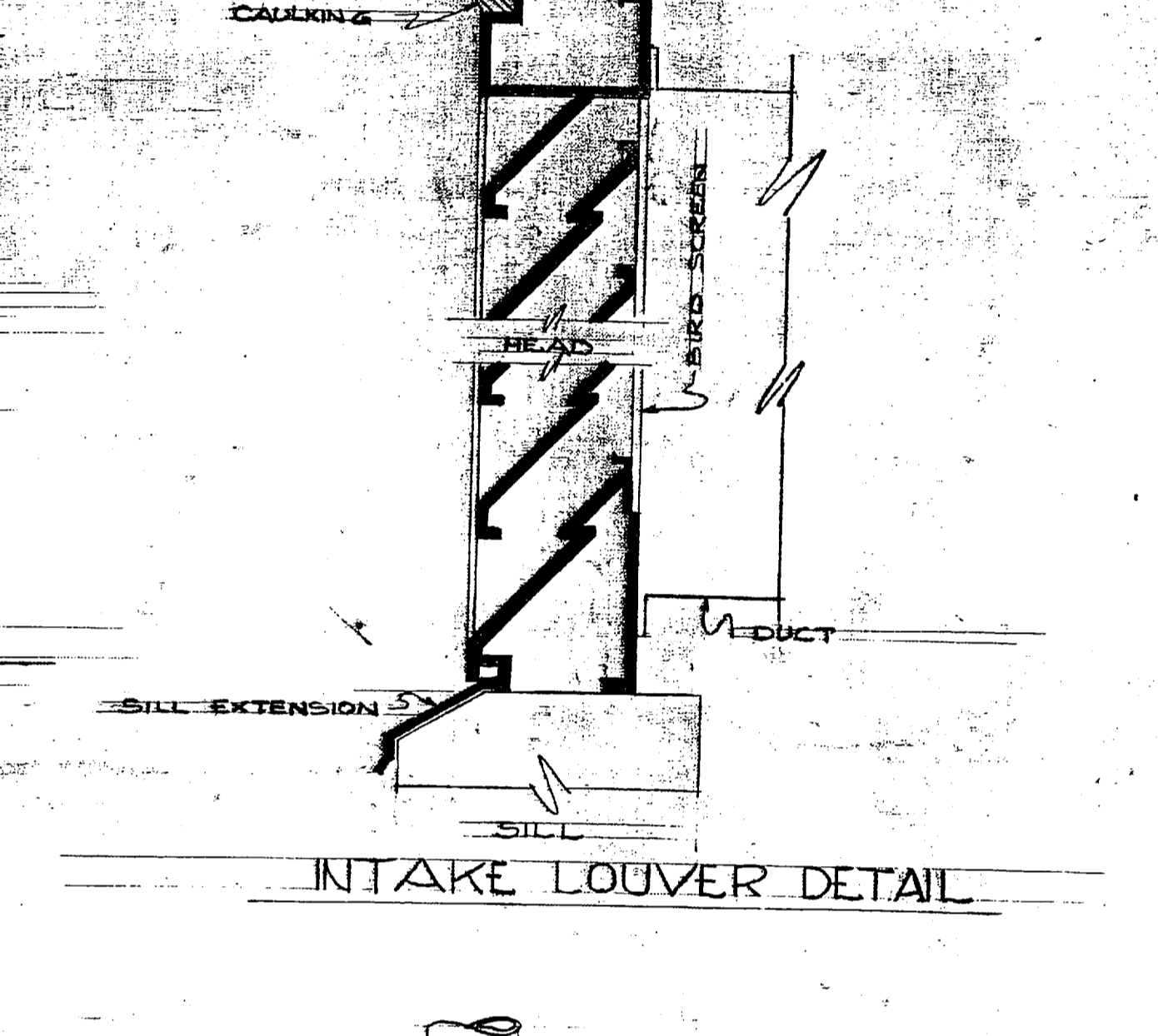
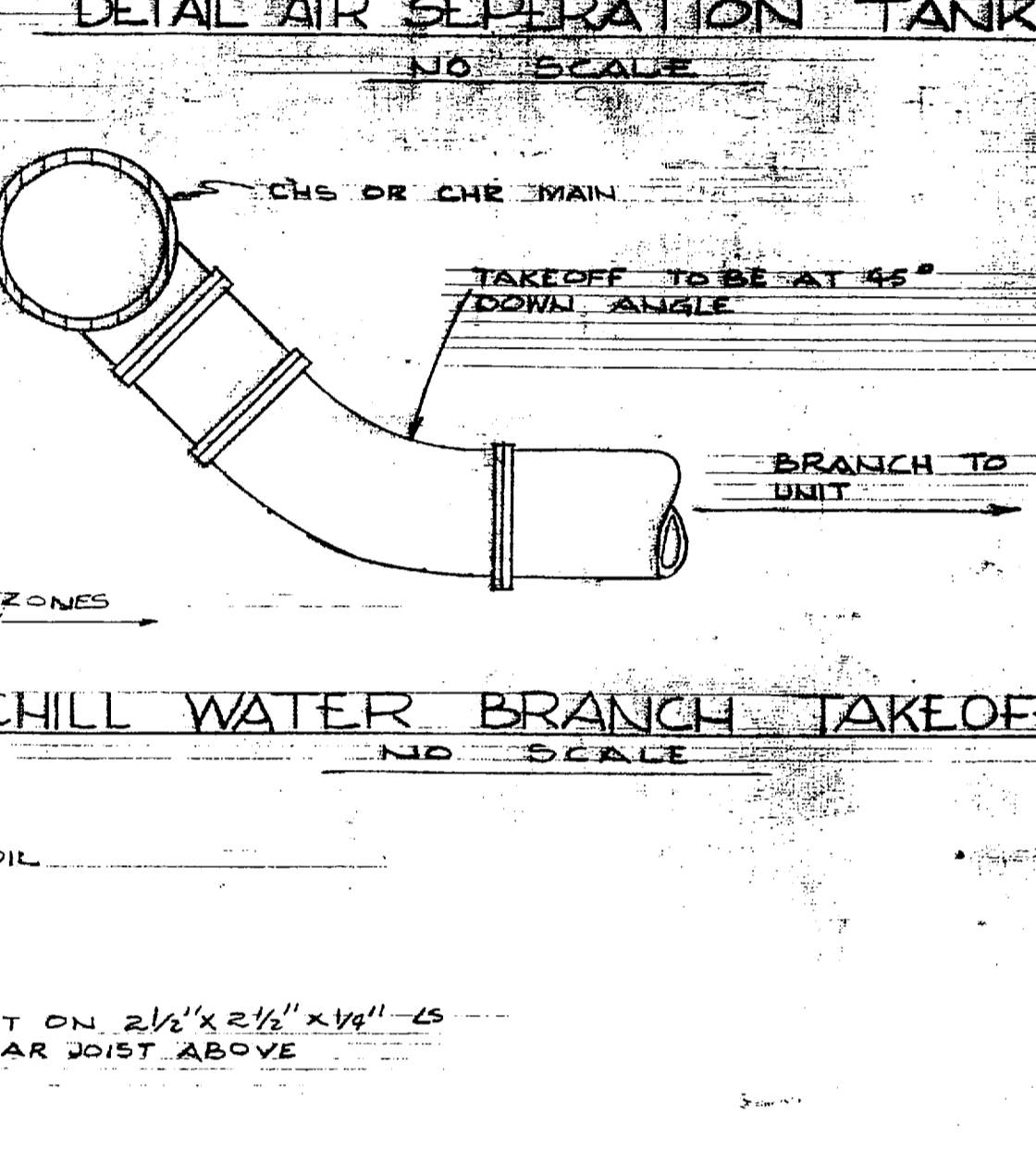
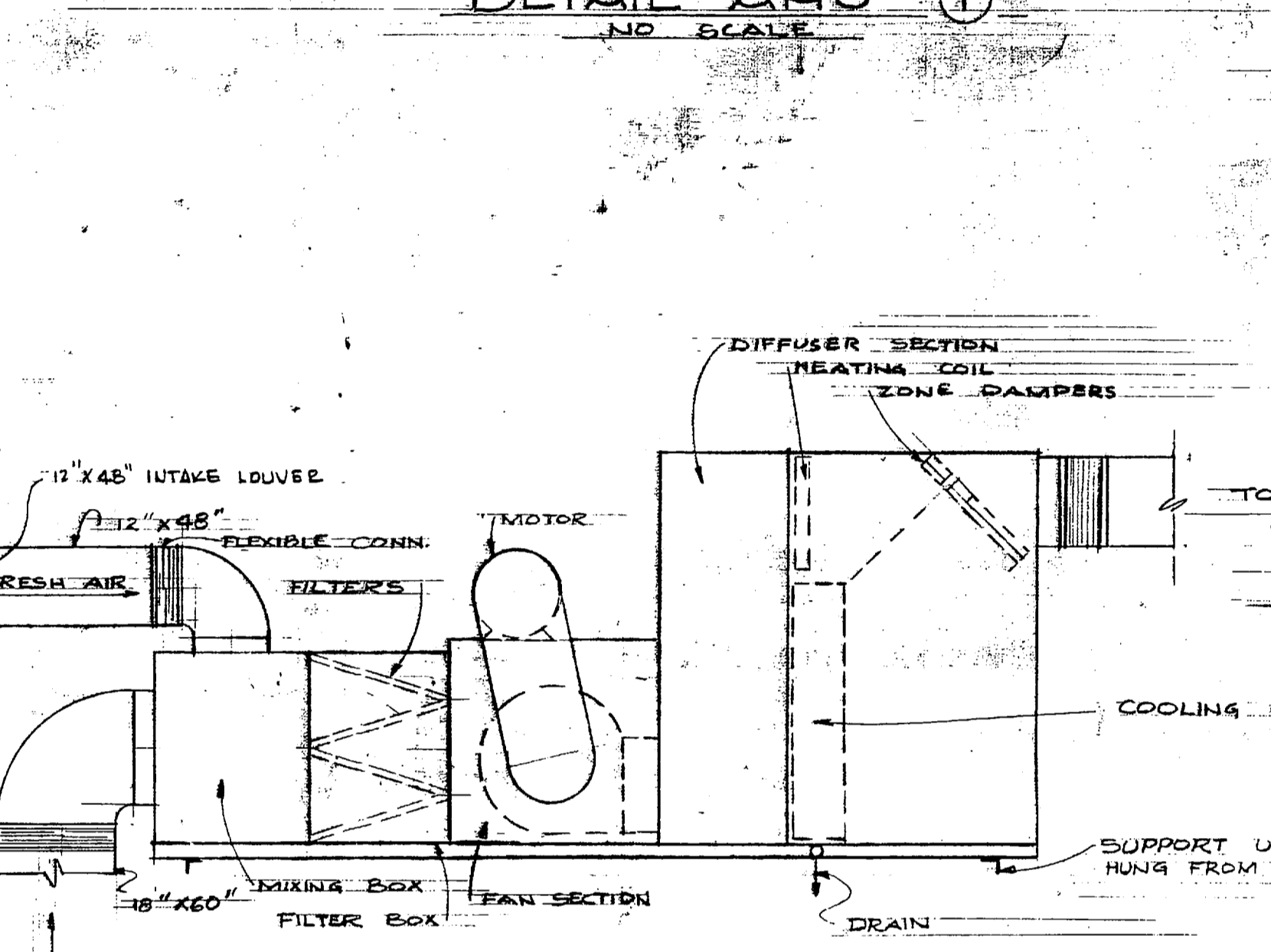
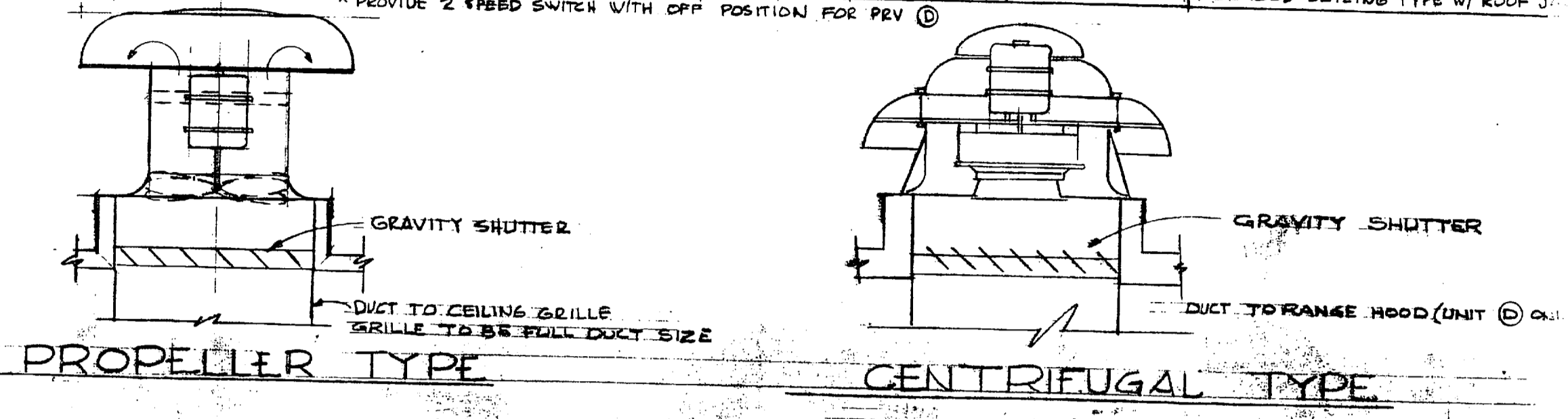
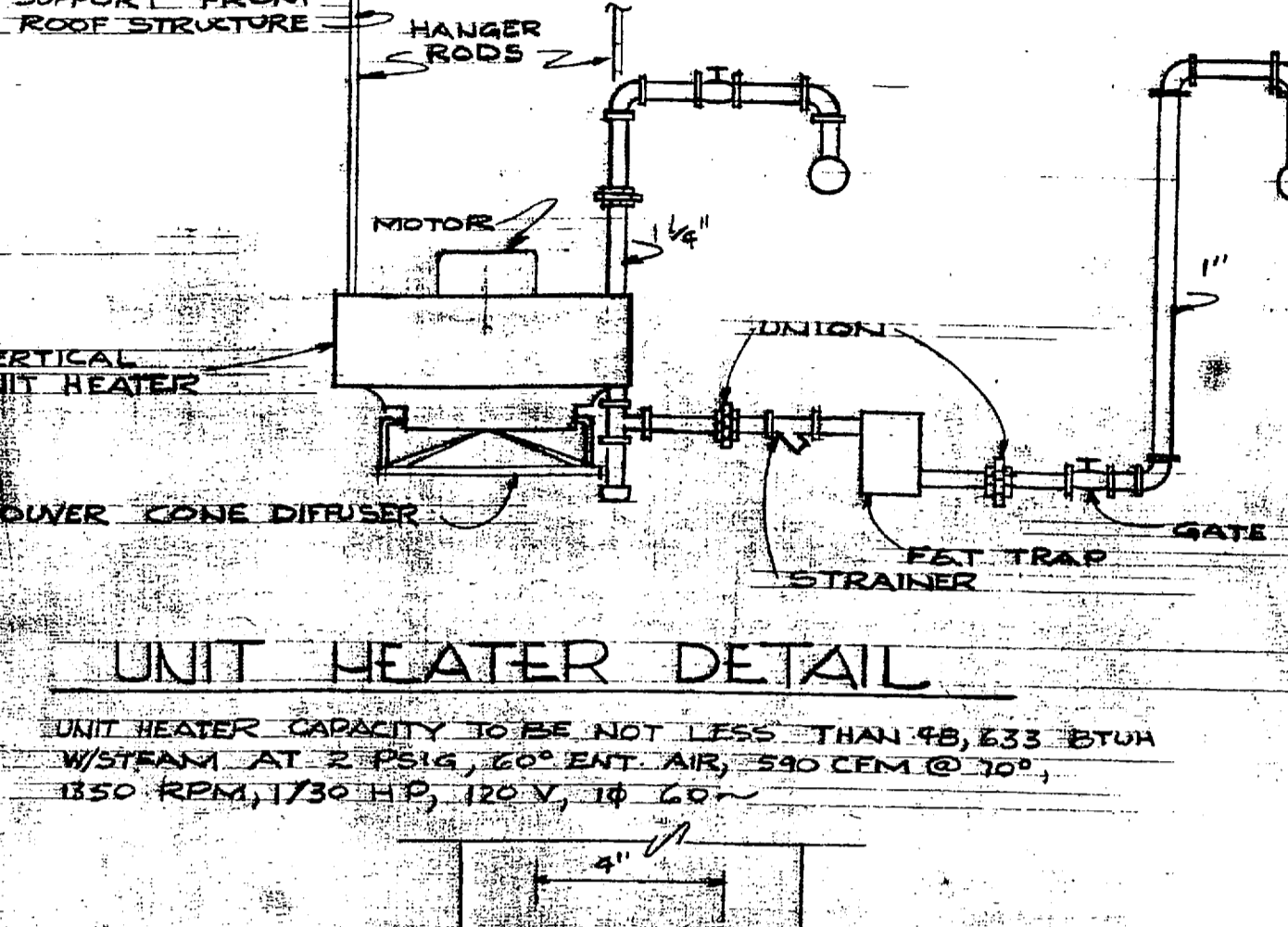
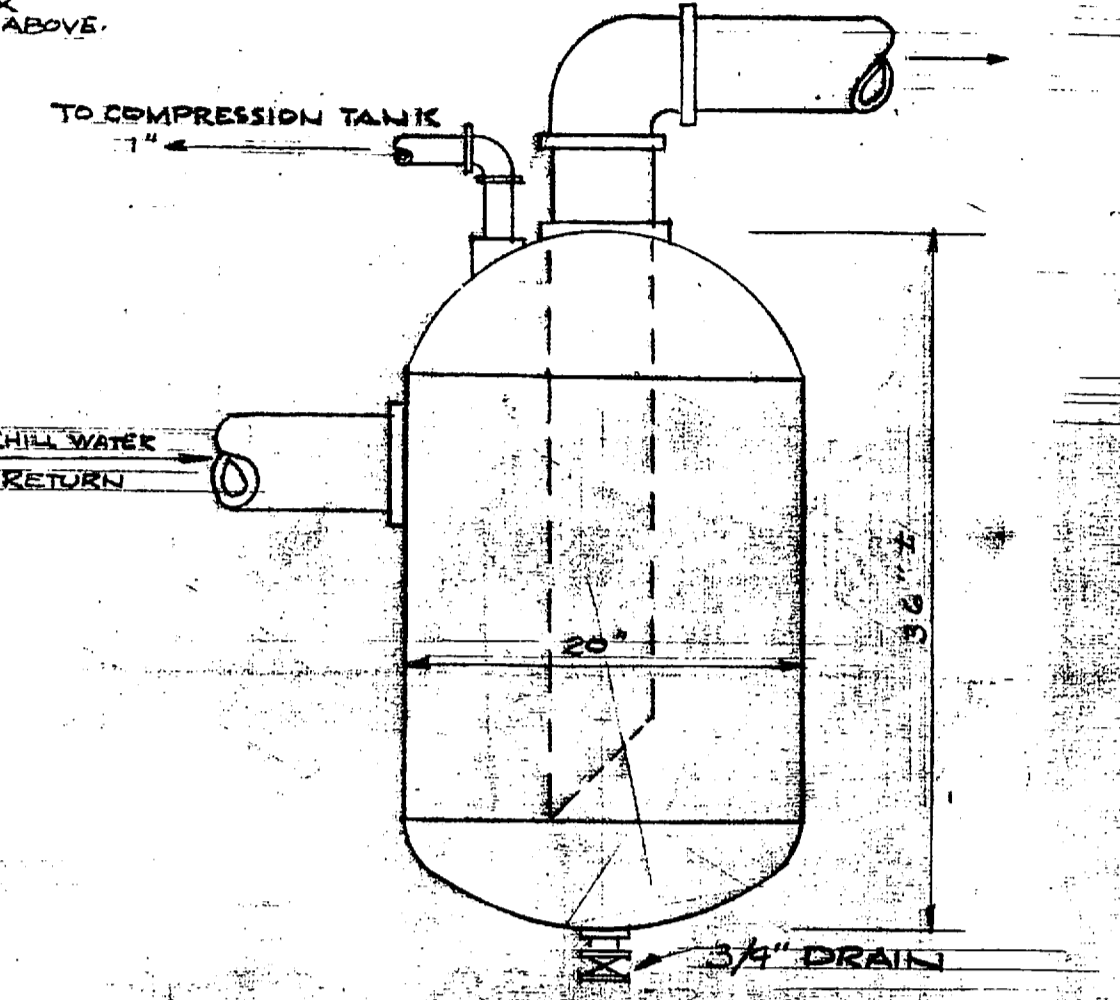
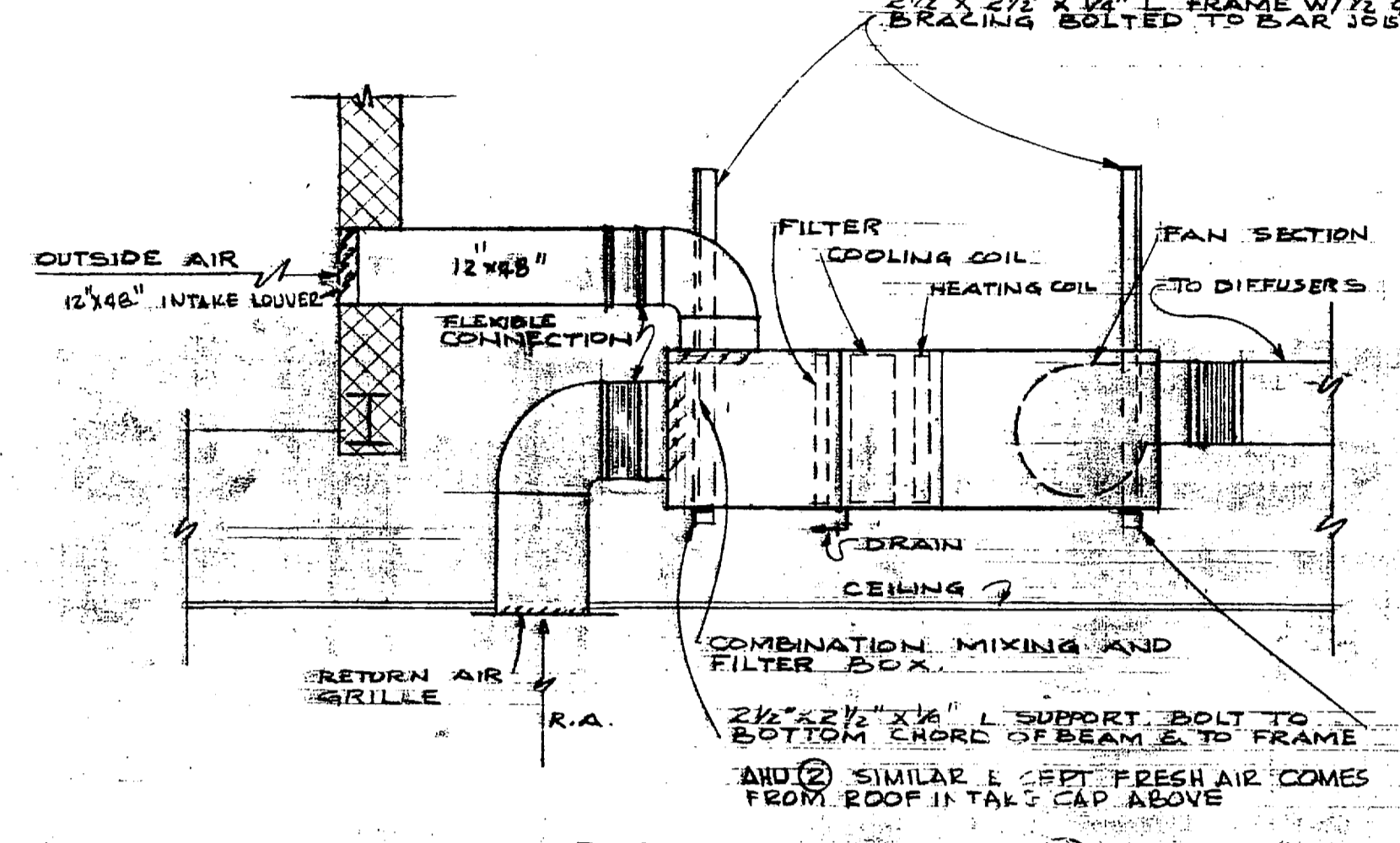
SYMBOL	DESCRIPTION	DATE	APPROV.
REVISIONS			
MARINE CORPS BASE CAMP LE JUNE, N.C.			
HENRY VON OESEN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N.C.			
BOWLING CENTER			
HEATING & AIR. CONDITIONING DETAIL 3			
DESIGNED BY	DRWN. (BY)	CHK. (BY)	PROJ. MGR. (BY)
DIR. DESIGNED BY	CHK. (BY)	BR. MGR. (BY)	DIR. DESIGNED BY
APPROVED	DATE	DATE	DATE
APPROVED FOR RECREATION - FUND	PUBLIC WORKS OFFICER	SCALE AS SHOWN	SPEC
SHEET 18 OF 18 INDEX 1044		M.C.B.C.L.N.C. DRWG No. 6664	

SCHEDULE OF HEATING & AIR CONDITIONING UNITS

SYMBOL	TYPE	TOTAL VENT CFM	EXTERNAL AIR CFM	MAX. OUT VEL. FPM	MIN. H.P.	COOLING				HEATING				ELECTRICAL													
						ENT. AIR	FLY. AIR	WATER	MAX. FACE VEL. FPM	MIN. ROWS	CAPACITY BTU/H	ENT. AIR	FLY. AIR	STEAM PSIG	COND. WATER	CHILL WATER	COND. RET.	VOLTS	PHASE	CYCLES							
①	HORIZONTAL SINGLE ZONE	2400	1800	175"	1500	1	33,501	120,000	87.0	75.3	27.2	27.8	30.0	95	500	B	198,744	40	95.5	15	15	2"	2"	1 1/2"	208	3	60
②	"	1200	900	175"	1500	3/4	33,501	120,000	87.0	75.3	27.2	27.8	30.0	95	500	B	198,744	40	95.5	15	15	2"	2"	1 1/2"	208	3	60
③	MULTIZONE "	6000	4500	175"	1500	3	107,648	377,154	84.6	71.6	26.3	27.0	65.4	95	500	B	286,974	60	93.1	15	15	2 1/2"	2 1/2"	1 1/2"	208	3	60
④	"	335	45	175"	1500	1/25	7,874	10,081	82.2	67.6	51.0	57.4	21.0	45	500	B	11,646	60	92.3	15	12	3/4"	1"	3/4"	120	1	60

SCHEDULE OF POWER ROOF VENT.

SYM	TYPE	CFM	E.P.	RPM	H.P.	ELEC. CHARACTERISTICS	REMARKS
①	CENTRIFUGAL	6750	1/8	1750	3	208V, 3Ø, 60V	OFF-ON-AUTO SWICH, AUTO-INTERLOCK W/
②	PROPELLER	187	1/8	1850	1/80	120V, 1Ø, 60V	
③	"	600	1/8	1850	1/12	120V, 1Ø, 60V	
④	CENTRIFUGAL	1200	1/8	1850	1/2	208V, 3Ø, 60V	2-3 SPEED, LOW SPEED 1/2 HIGH SPEED
⑤	"	1800	1/8	255	1/2	120V, 1Ø, 60V	INTERLOCK WITH AHU ON SAME B.
⑥	PROPELLER	100	P.1			120V, 1Ø, 60V	PACKAGED CEILING TYPE W/ ROOF J.



CATEGORY CODE NO. 740 40

ARCHITECTURAL ASSOCIATES
LESLIE N. BONEY, ARCHITECTS

DATE: JUNE 10, 1963

APPROVED FOR RECREATION FUND
PUBLIC WORKS OFFICER

DATE: July 63

SCALE AS SHOWN
SHEET 18 OF 18 INDEX 1044
M.C.B.C. N.C. DRWG No. 6664

SYMBOL	DESCRIPTION	REVISIONS	DATE	APPROVAL

