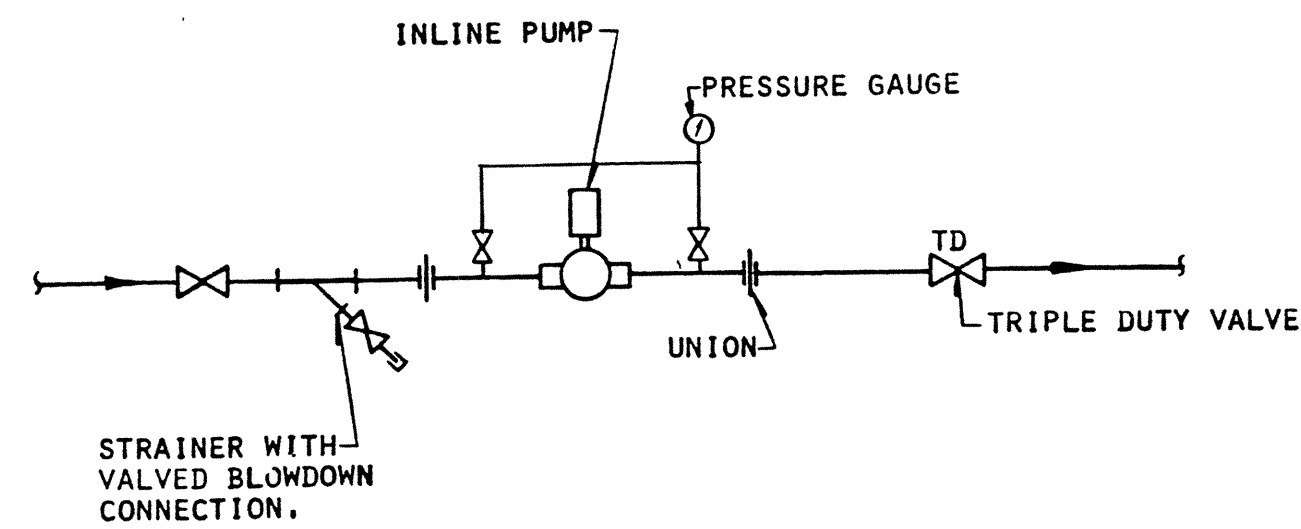
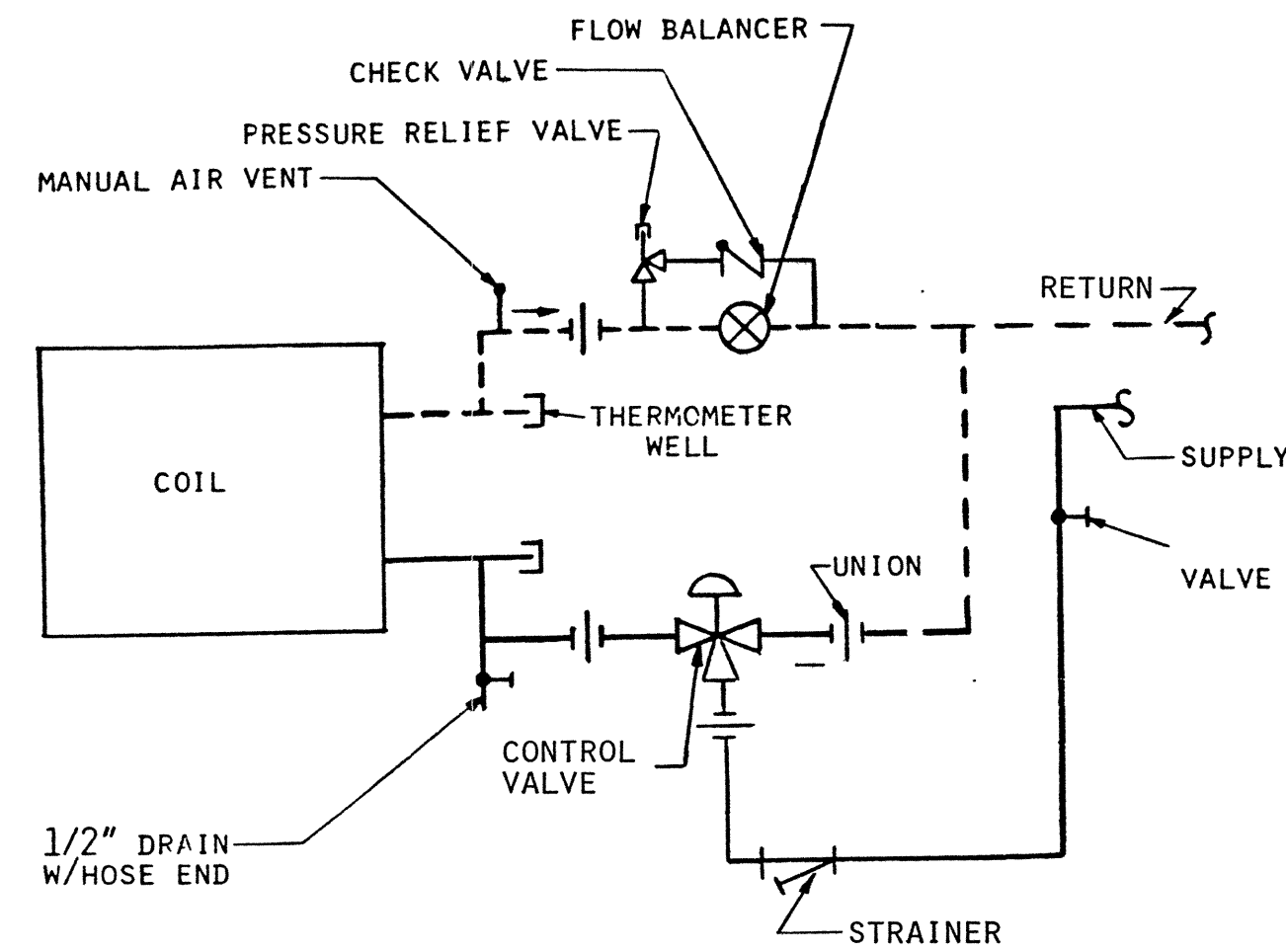




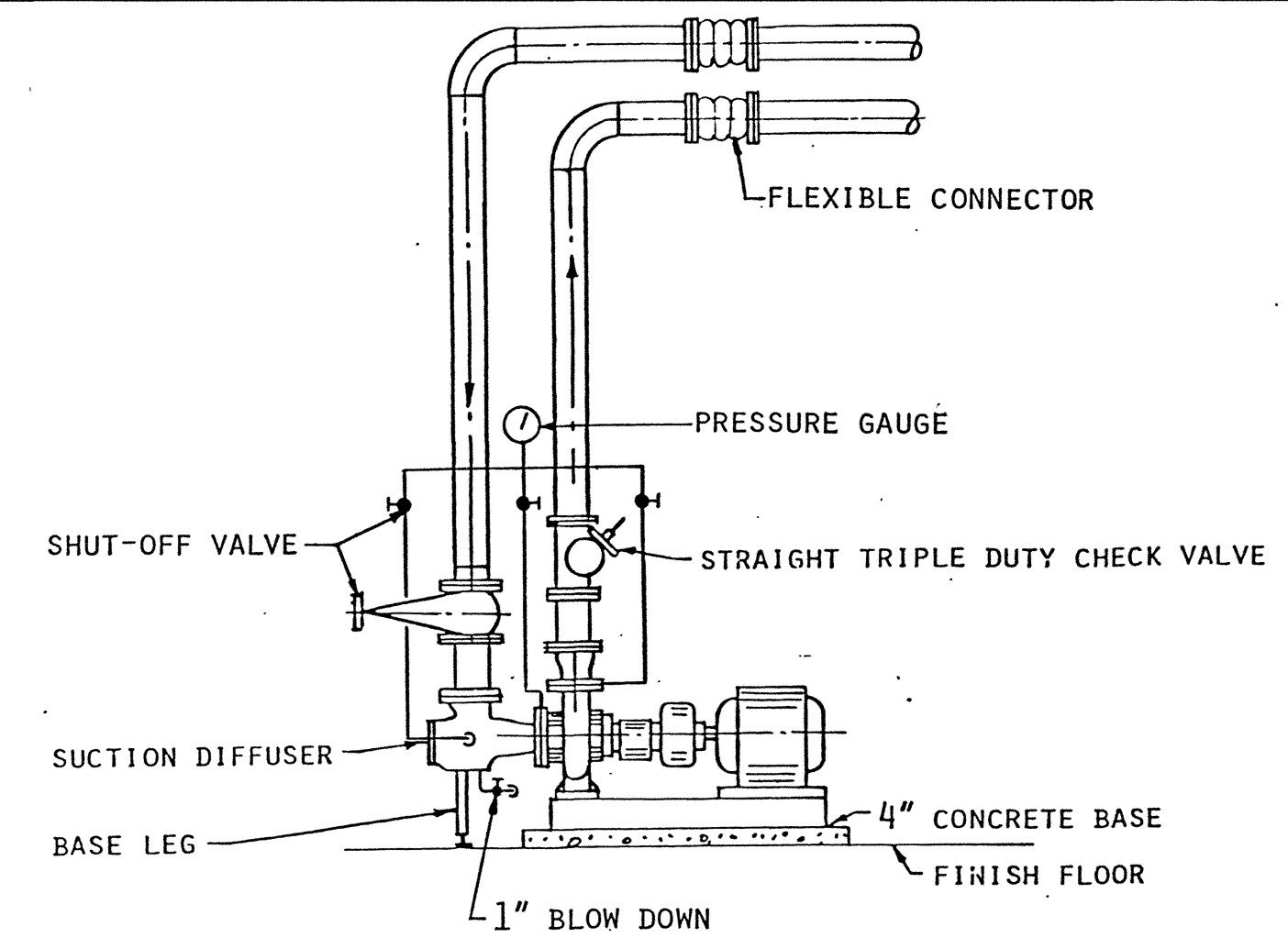
INLINE PUMP DETAIL
NO SCALE

1



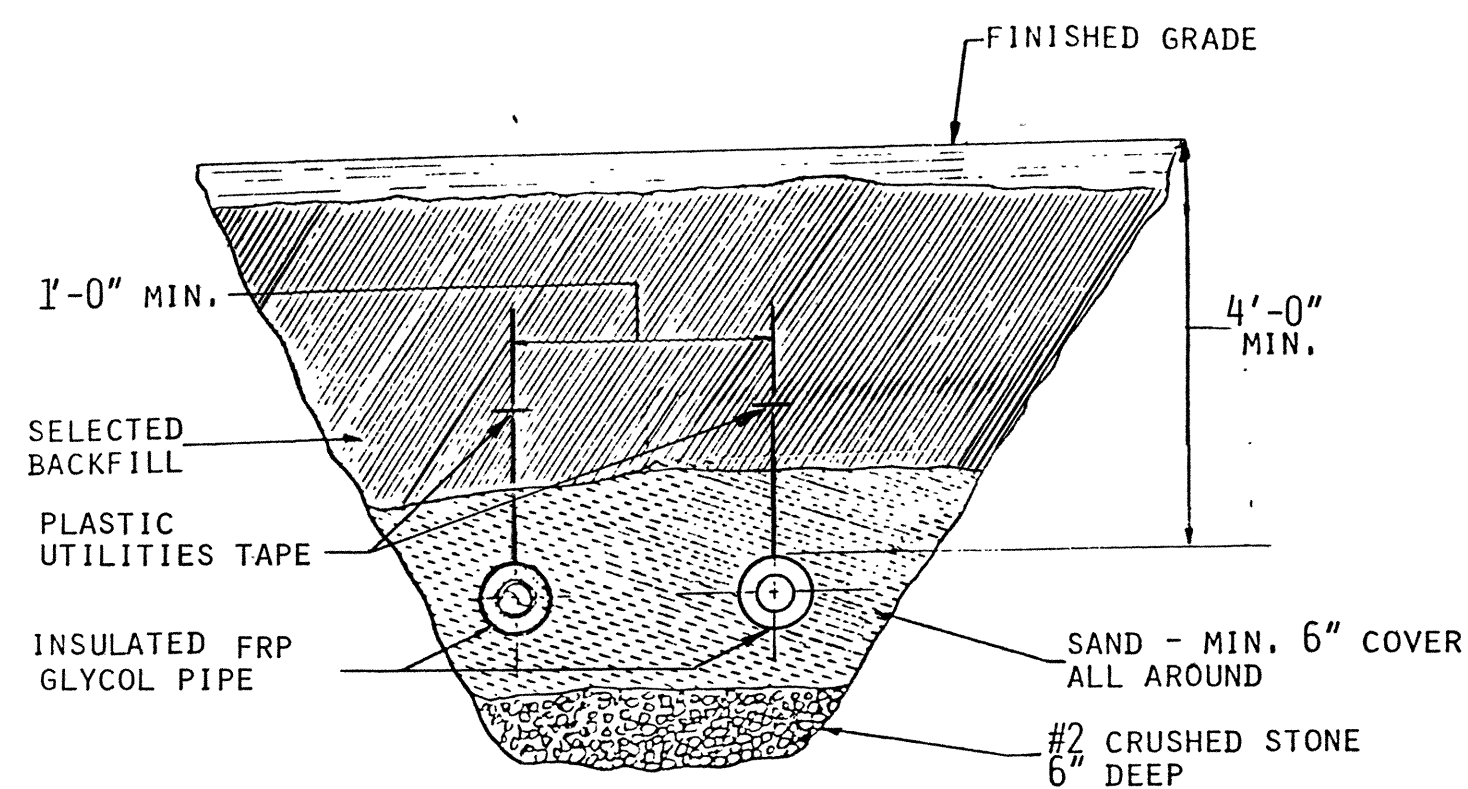
F&C UNIT GLYCOL COIL PIPING DETAIL
NO SCALE
1. ARRANGE PIPING TO ALLOW REMOVAL OF COIL AND FILTER WITHOUT REMOVING PIPING BEYOND UNIONS.

2



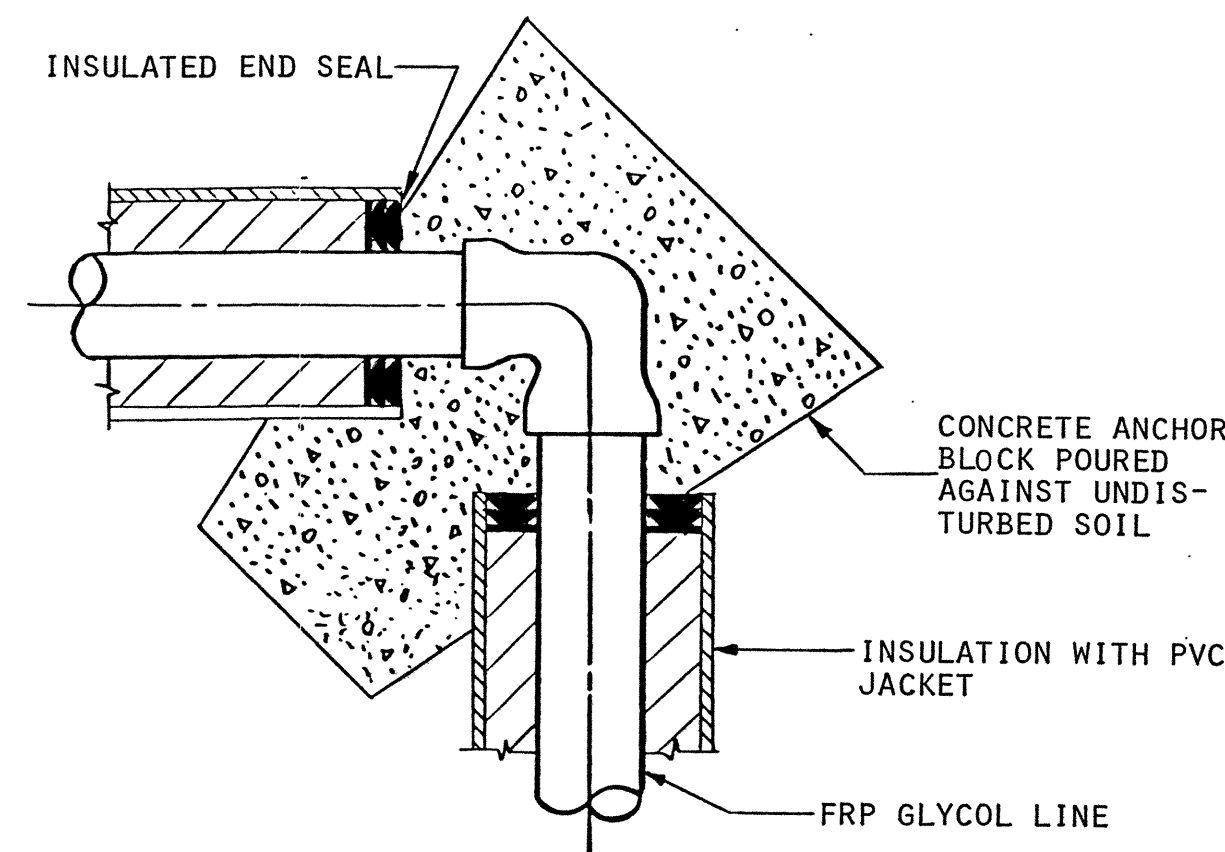
FLOOR MOUNTED PUMP PIPING DETAIL
NO SCALE

3



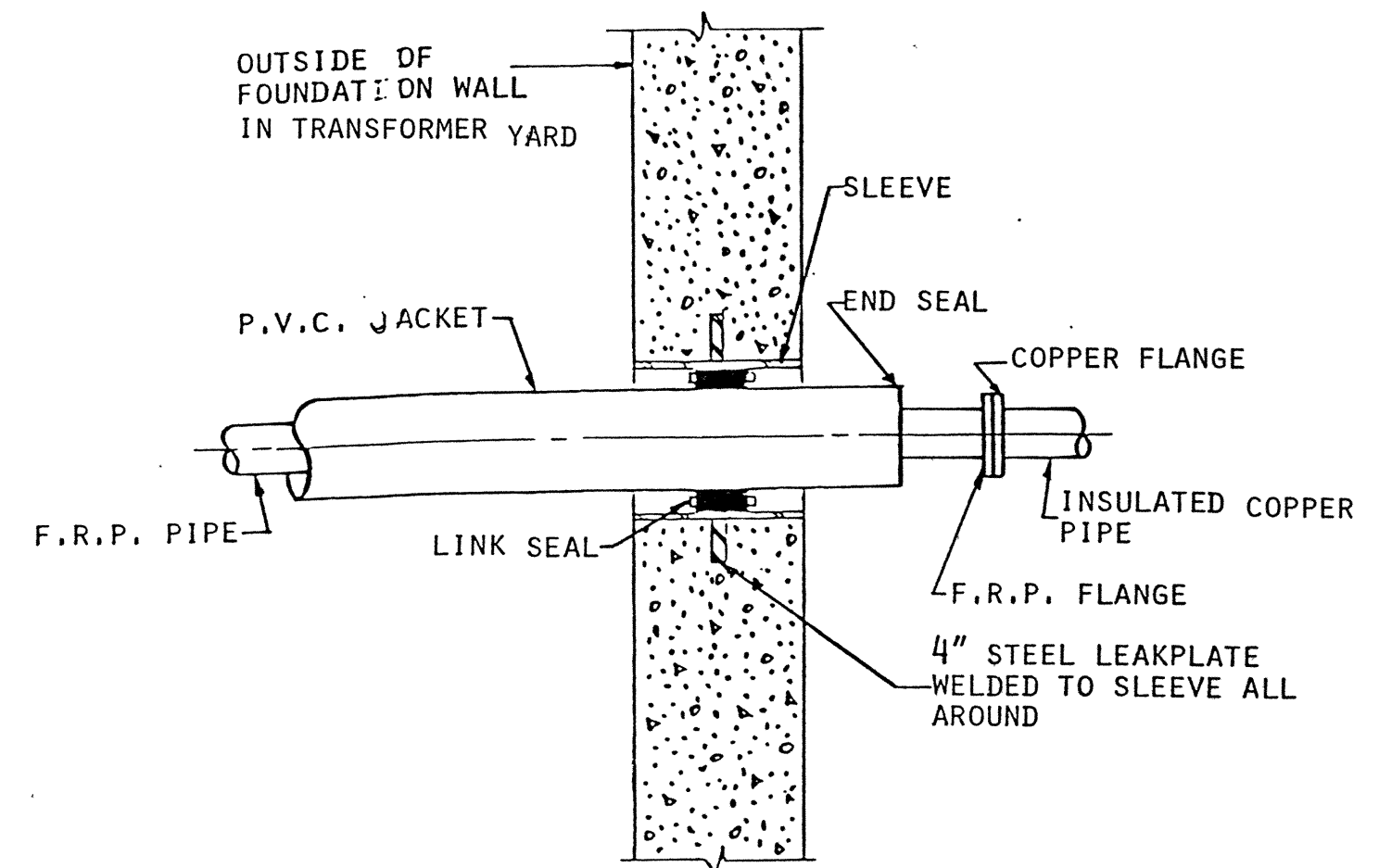
TYPICAL TRENCH DETAIL
FRP GLYCOL PIPE LINES
NO SCALE

4



FRP GLYCOL LINE ANCHOR DETAIL
NO SCALE
NOTE: PROVIDE AT EACH ELBOW

5



UNDERGROUND GLYCOL LINE WALL PENETRATION DETAIL
NO SCALE

6

HEAT EXCHANGER SCHEDULE (LCITW TO GLYCOL)												
NO.	LOCATION	SERVICE	HEATING FLUID				HEATED FLUID				SQ. FT. HEATING SURFACE	DESIGN EQUIPMENT
			MEDIA	GPM	P.D. FT. HD.	ENT. TEMP. °F	MEDIA	GPM	P.D. FT. HD.	ENT. TEMP. °F		
HX-1	Rm. 151	Heat Recovery	LCITW	210	16	105	50% Glycol	250	23	80	571	Alfa Laval A10BSG

HEATING COIL SCHEDULE - 50% GLYCOL												
UNIT NO.	LOCATION	SERVICE	CFM	FACE VEL. FPM	GPM	ENT. °F	LWT °F	MAX COIL P.D. Ft.	EAT °F	LAT °F	P.D. IN WG	MEH
C-1	Tennis Bldg	Applied Air Heater	16300	540	80	100	70	17.6	32	90	0.8	1025
												Trane 8R Type W

PUMP SCHEDULE												
PUMP NO.	LOCATION	SERVICE	GPM	HEAD FT. WATER	MAX WHP	MOTOR				STARTER	PUMP TYPE	DESIGN EQUIPMENT
						H P	VOLTS	PHASE	RPM			
P-1	Rm. 151	HX-1 LCITW	210	50	175	5	460	3	1750	Comb. Mag.	Base	Gould Model 3196 MT 3x4-8G
P-2	Rm. 151	Snow Melt	116	45	175	3	460	3	1750	Comb. Mag.	Base	B&G Series 1510 - 2" AC
P-3	Rm. 401	Tennis Bubble	80	45	175	2	460	3	1750	Comb. Mag.	Inline	B&G Series 60-21 2"A
P-4	Rm. 401	Tennis Bubble	80	45	175	2	460	3	1750	Comb. Mag.	Inline	B&G Series 60-21 2"A
P-5	Rm. 452	Level 4 Snow Melt	53	45	175	1-1/2	460	3	1750	Comb. Mag.	Inline	B&G Series 60-21 2"A

NOTES
1. MCC #3 is Westinghouse Type W control center. Available space is in positions 4E, 4J, 5B, 5M, and 6C. Provide Westinghouse replacement plug-in cell units for Type W control center. Circuit breakers shall be Westinghouse AB De-ion type FA and starters same as existing. Provide with NEMA Class 2, Type B wiring. Verify all work in field.

RW

ROBSON & WOESE INC.
CONSULTING ENGINEERS

SYRACUSE, N.Y.
ROCHESTER, N.Y.



IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THIS DOCUMENT IN ANY WAY

NO.	REVISIONS	DATE
JOB NO.	1-2155	
DRAWN BY	DRG	
CHECKED BY	RL/TAD	
SCALE	As Shown	
DATE	April 1983	

PROJECT
WILSON LABORATORY

CORNELL UNIVERSITY
ITHACA NEW YORK

TITLE
HEAT RECOVERY & DOOR CURTAINS DETAILS & SCHEDULES

DRAWING NO.
M/E-5