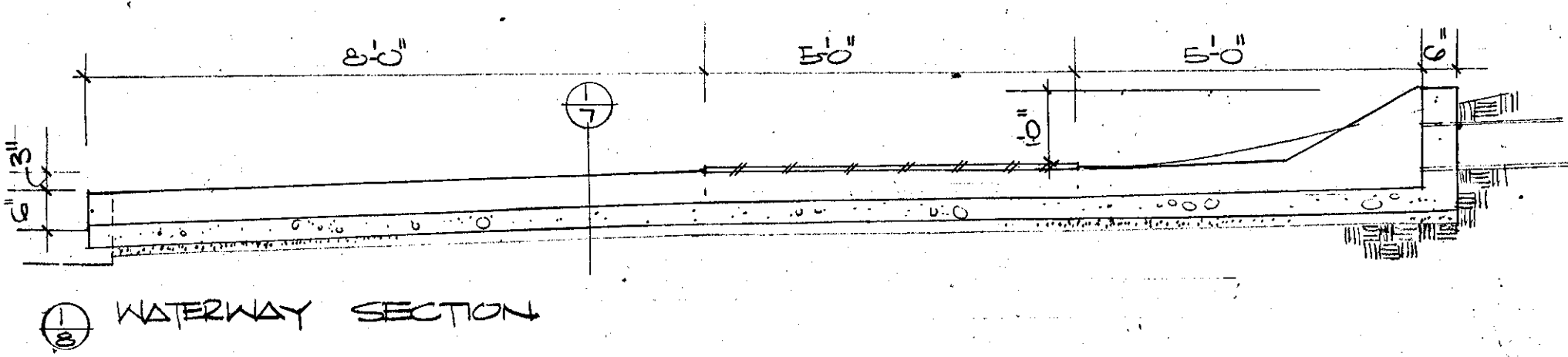
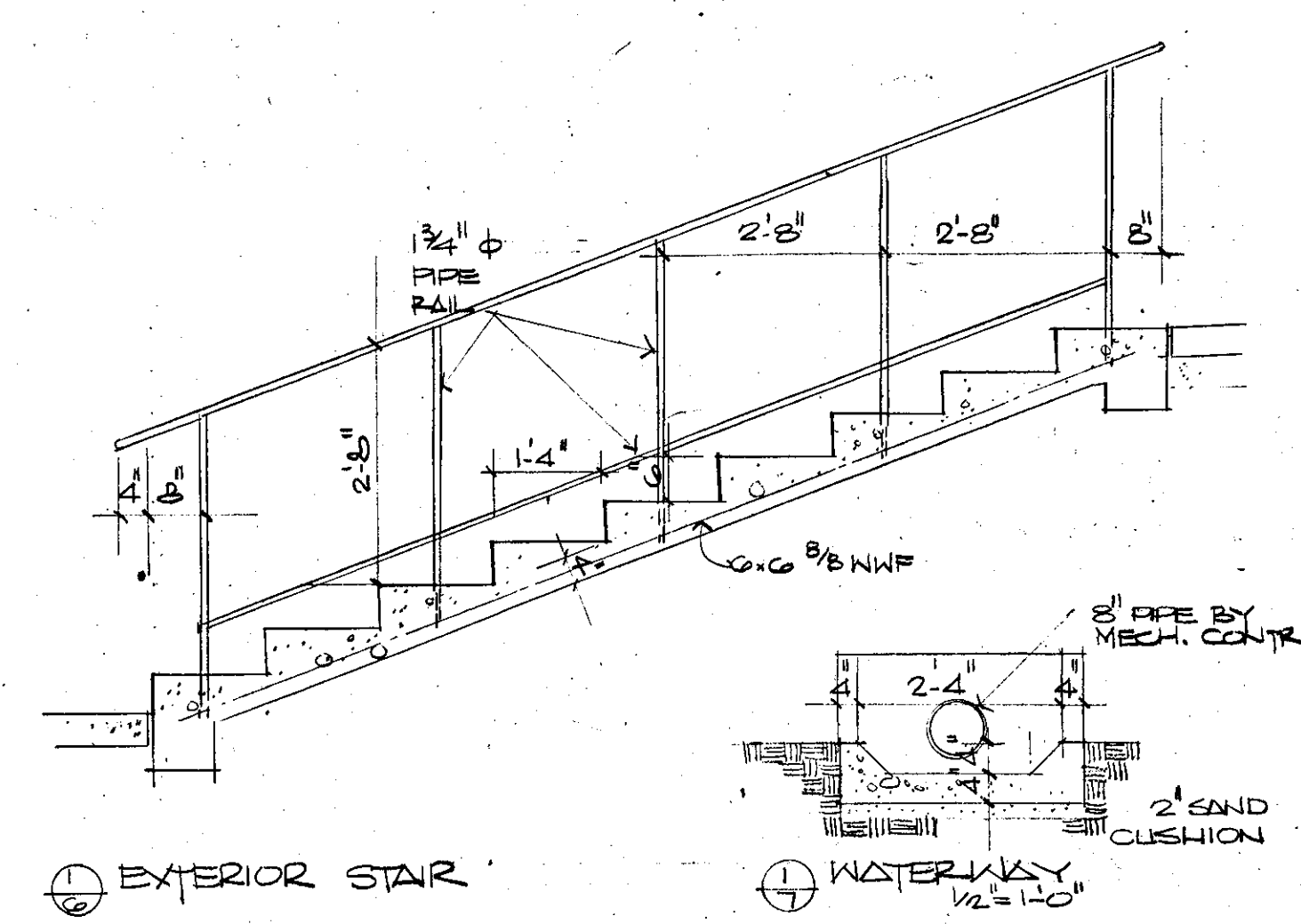
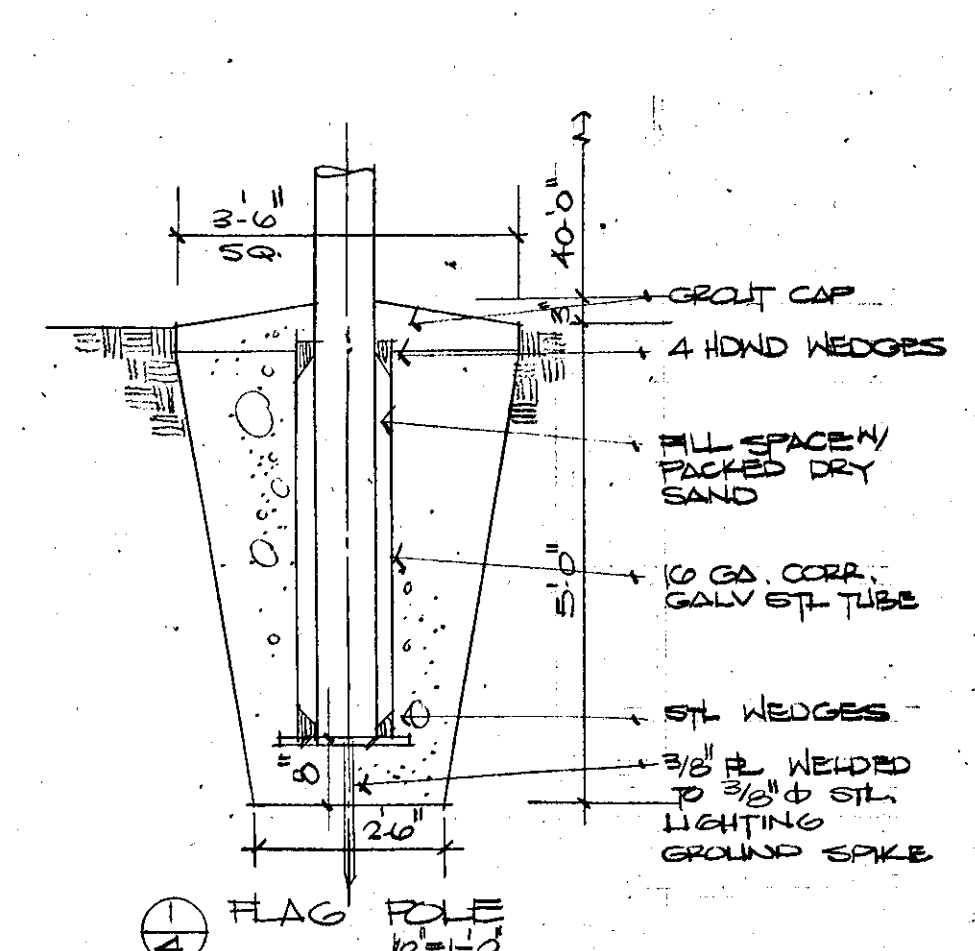
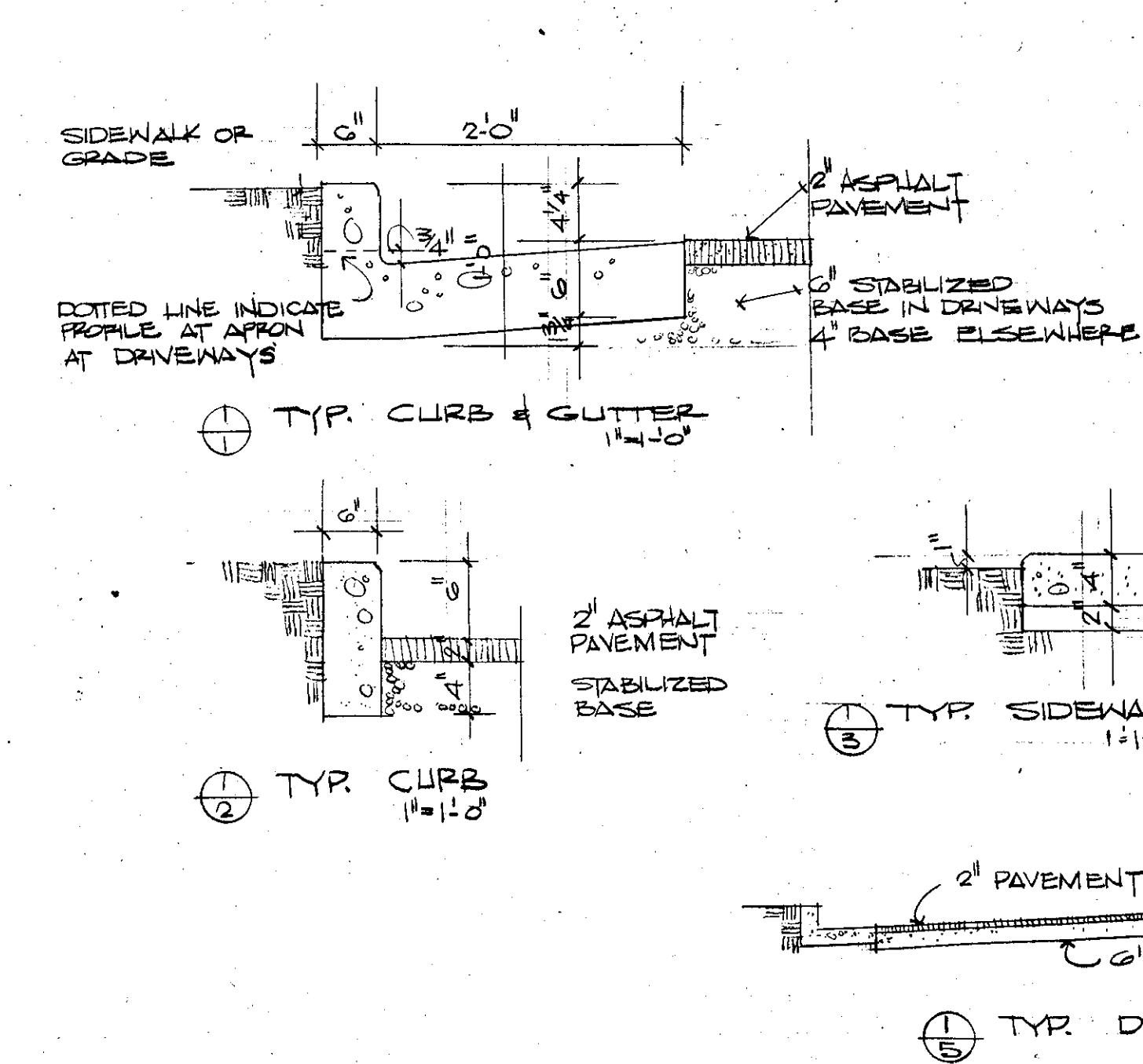


LEGAL DESCRIPTION:  
THE WEST 63' OF THE NORTH 1/4  
OF THE N.E. 1/4 OF SEC 22, T11N R24E

PLOT PLAN  
SCALE: 1/4" = 10'



*Propose Stair by*

DETAIL INFORMATION					
100	ROOM NUMBER	▲	ELEVATION	③	DOOR NUMBER
②	SHT. NUMBER	④	SHT. NUMBER	⑥	
①	DETAIL NUMBER				
MATERIAL INDICATION					
1	2.00	3	4	5	
EARTH	CONC.	GRAVEL	CONC. BLK.	LWCB	
BRICK	STREET GL. TILE	PLASTER			
FIN. WOOD	PLYWOOD	BATT INSUL.	FILL INSUL.	SD INSUL.	
METAL	ACQUST. TILE	TERAZZO			

# AREA VOCATIONAL TECHNICAL SCHOOL

## WATERTOWN, SOUTH DAKOTA

PLOT PLAN  
AREA VOCATIONAL TECHNICAL SCHOOL - WATERTOWN, SO. DAK.  
HAROLD SPITZNAGEL AND ASSOCIATES - ARCHITECTS AND ENGINEERS  
800 SOUTH SUMMIT AVENUE - SIOUX FALLS, SOUTH DAKOTA  
ROBEL AND POPE ARCHITECTS - ASSOCIATE ARCHITECTS  
201 FARMER AND MERCHANTS B' DING - WATERTOWN, SO. DAK.



**ROOM FINISH SCHEDULE**

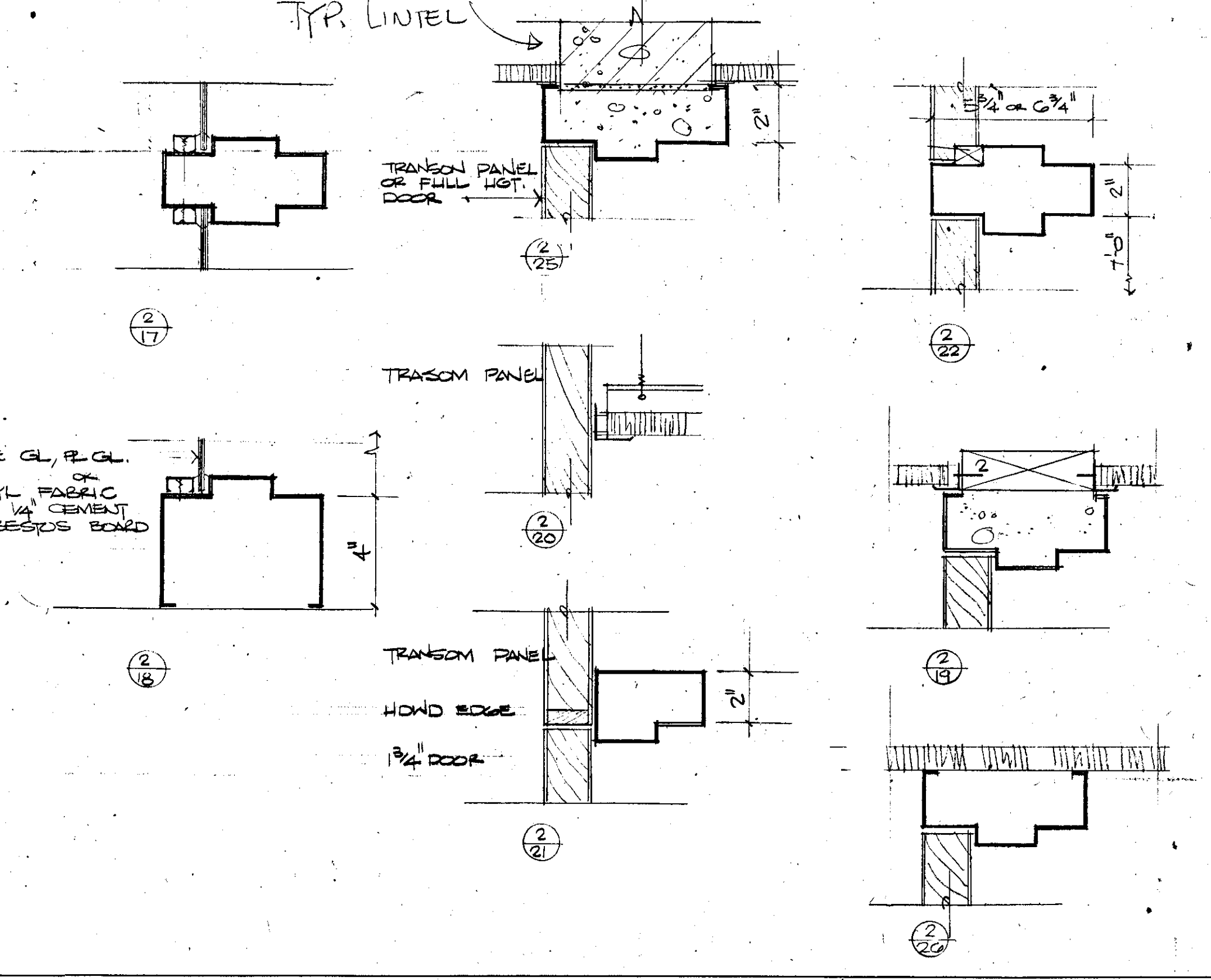
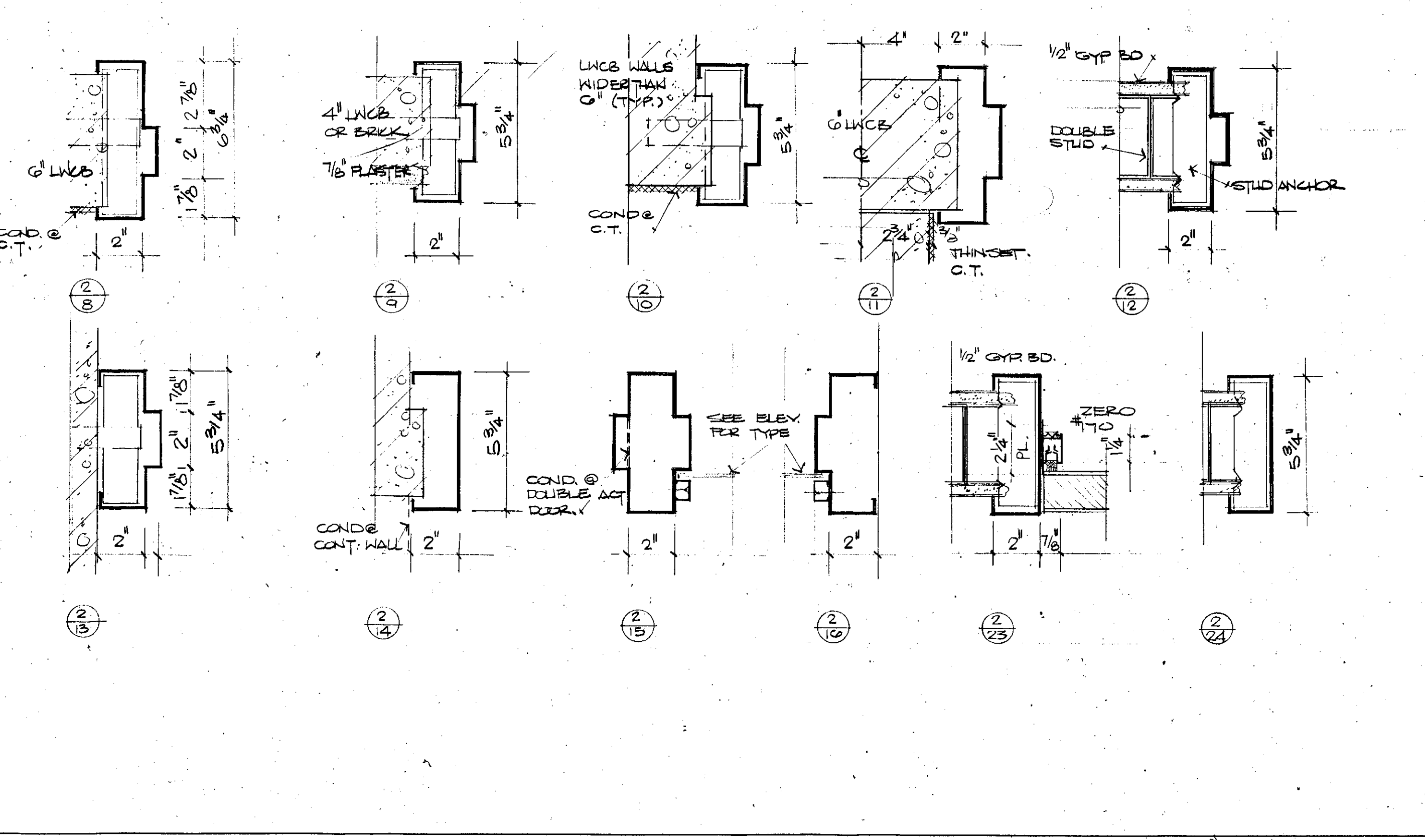
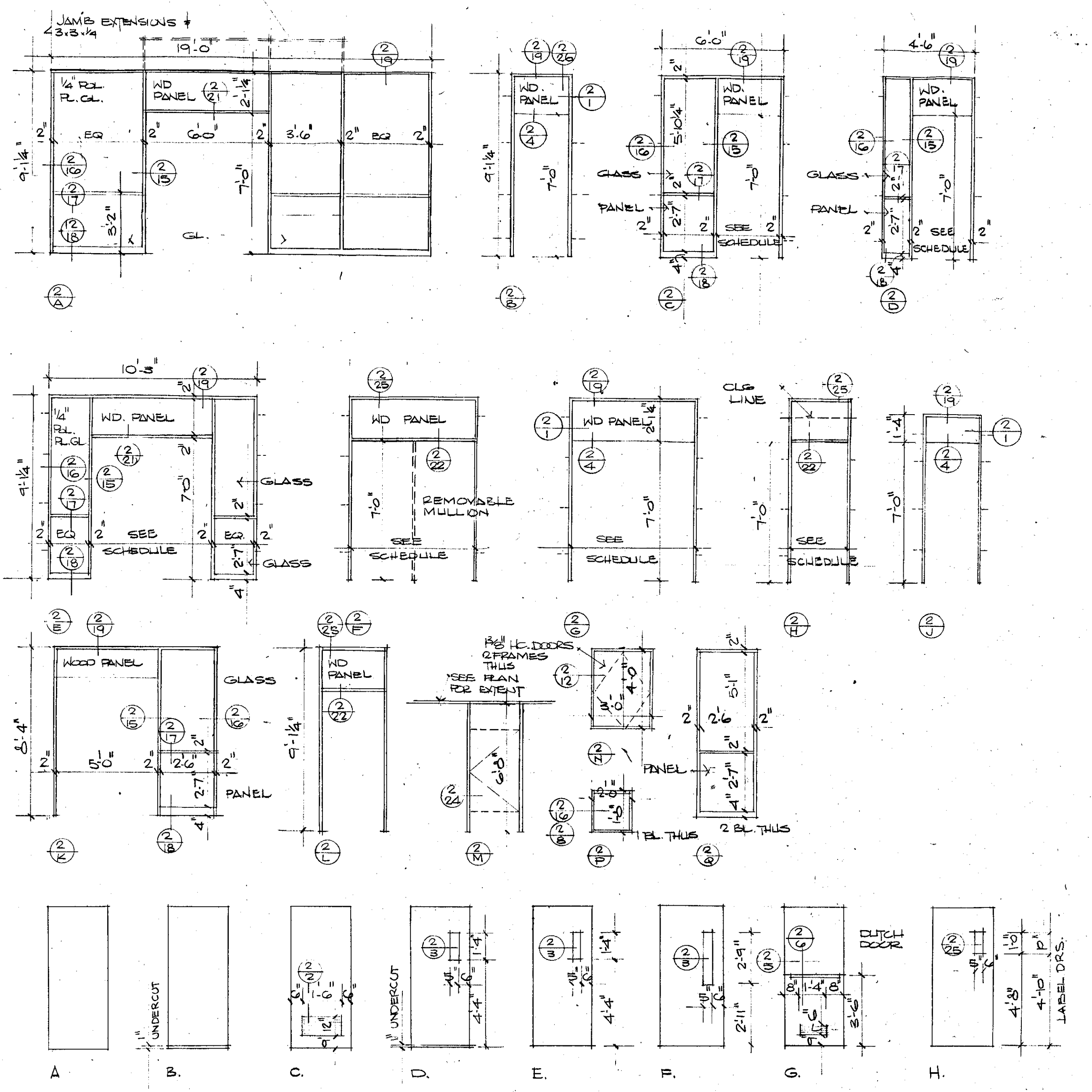
RM. NO.	ROOM	FLOOR	BASE	WAINSCOT	WTL. WALL	FINISH	ELEV.	CEILING	HGT.	REMARKS
101	VESTIBULE	TERR.	TERR.	1/2"	BRICK	PLST. FNT.	AC. BD.	---	9'-1 1/4"	
102	OFFICE	CARPET	WD.	---	BRICK	PLST. FNT.	AC. BD.	---	9'-1 1/4"	
103	OFFICE	CARPET	WD.	---	BRICK	PLST. FNT.	AC. BD.	---	9'-1 1/4"	
104	OFFICE	CARPET	WD.	---	BRICK	PLST. FNT.	AC. BD.	---	9'-1 1/4"	
105	LOBBY	TERR.	TERR.	---	BRICK	---	AC. BD.	---	9'-1 1/4"	
106	GEN. OFFICE	TERR.	TERR.	---	BRICK	---	AC. BD.	---	9'-1 1/4"	VINYL FABRIC
107	WORK RM.	VAT.	VINYL	---	---	---	---	---	---	
108	FACULTY LOUNGE	CARPET	WD.	---	---	---	---	---	---	
109	STUDENT LOUNGE	TERR.	TERR.	---	---	---	---	---	---	VINYL FABRIC
110	PHONE	TERR.	TERR.	---	---	---	---	---	---	
111	CORRIDOR	TERR.	TERR.	---	---	---	---	---	---	
112	JAN CLOSET	VAT.	VINYL	---	---	---	---	---	---	CT @ MOP BASIN
113	MTR.	C.T.	---	---	---	---	---	---	---	
114	MTR.	C.T.	---	---	---	---	---	---	---	
115	RECEP.	CARPET	VINYL	---	---	---	---	---	---	
116	OFFICE	VAT.	VINYL	---	---	---	---	---	---	
117	COSMETOLOGY	VAT.	VINYL	---	---	---	---	---	---	
118	DISPENSARY	VAT.	VINYL	---	---	---	---	---	---	
119	DENT. CLASSROOM	VAT.	VINYL	---	---	---	---	---	---	
120	DENT. LAB	VAT.	VINYL	---	---	---	---	---	---	
121	DEMO. OPERATORY	VAT.	VINYL	---	---	---	---	---	---	
122	---	---	---	---	---	---	---	---	---	
123	DISPENSARY	VAT.	VINYL	---	---	---	---	---	---	
124	DARK RM.	VAT.	VINYL	---	---	---	---	---	---	
125	CORR.	VAT.	VINYL	---	---	---	---	---	---	
126	X-RAY	VAT.	VINYL	---	---	---	---	---	---	WALLS 6'-6" HIGH
127	X-RAY	VAT.	VINYL	---	---	---	---	---	---	
128	OPERATORY	VAT.	VINYL	---	---	---	---	---	---	
129	OFFICE	VAT.	VINYL	---	---	---	---	---	---	
130	RECEPTION	CARPET	WOOD	---	---	---	---	---	---	
131	VESTIBULE	TERR.	TERR.	---	---	---	---	---	---	
132	RECEIVING	CONC.	VINYL	---	---	---	---	---	---	
133	MACHINE SHOP	CONC.	VINYL	---	---	---	---	---	---	
134	LOCKER	CONC.	VINYL	---	---	---	---	---	---	
135	LECTURE	CONC.	VINYL	---	---	---	---	---	---	
136	MTR.	C.T.	---	---	---	---	---	---	---	
137	LOCKER	CONC.	VINYL	---	---	---	---	---	---	
138	CORRIDOR	TERR.	TERR.	---	---	---	---	---	---	CT. (SEE ELEV.)
139	SHOWER	C.T.	---	---	---	---	---	---	---	
140	MTR.	C.T.	---	---	---	---	---	---	---	
141	AUTO MECHANICS	CONC.	VINYL	---	---	---	---	---	---	
142	LECTURE	CONC.	VINYL	---	---	---	---	---	---	
143	LOCKER	CONC.	VINYL	---	---	---	---	---	---	
144	FORM IMPLEMENT	CONC.	VINYL	---	---	---	---	---	---	
145	CLASSROOM	VAT.	VINYL	---	---	---	---	---	---	
146	METER ROOM	CONC.	VINYL	---	---	---	---	---	---	
147	---	---	---	---	---	---	---	---	---	
148	---	---	---	---	---	---	---	---	---	
149	VESTIBULE	TERR.	TERR.	---	---	---	---	---	---	
150	STORAGE	VAT.	VINYL	---	---	---	---	---	---	
151	OFFICE	VAT.	VINYL	---	---	---	---	---	---	
152	ELECTRONICS	VAT.	VINYL	---	---	---	---	---	---	
153	OFF. MACH. REPAIR	VAT.	VINYL	---	---	---	---	---	---	
154	OFFICE	VAT.	VINYL	---	---	---	---	---	---	
155	STORAGE	VAT.	VINYL	---	---	---	---	---	---	
156	DISTRIBUTIVE ED	VAT.	VINYL	---	---	---	---	---	---	
157	CORRIDOR	TERR.	TERR.	---	---	---	---	---	---	VINYL FABRIC
158	OFFICE	VAT.	VINYL	---	---	---	---	---	---	
159	FINISH RM.	CONC.	VINYL	---	---	---	---	---	---	
160	CLEAN RM.	CONC.	VINYL	---	---	---	---	---	---	
161	DRAFTING	VAT.	VINYL	---	---	---	---	---	---	

- HARDEN & SEAL ALL EXPOSED CONC. SURF.
- PROVIDE VINYL REDUCING STRIP WHERE VINYL MEETS TILE ABUTS CONC.
- LAY ALL EXPOSED CONC. MASONRY IN STAGGED BOND.
- PROVIDE JOINT REINFORCING AT 14" O.C. VERT. IN ALL CONC. MASONRY WALLS.
- SEE CLG. PLAN FOR WALLS THAT EXTEND TIGHT TO UNDERB. OF RECF. CONSTRUCTION.
- CERAMIC TILE OCCURS IN CORRIDORS. SEE CORRIDOR ELEV. SHT. 'B'.
- PLASTER AT RAISE IN CLG. & SKY DOME WALL.
- PLASTER SHALL HAVE SAND FLOT FINISH.
- MULLION SHALL HAVE STAINED WOOD FINISH.
- RESIDENT FLOOR NEED NOT EXTEND UNDER BUILT-IN UNITS.
- PROVIDE VINYL BASE AT MILLWORK CABINETS.
- CERAMIC WALL TILE SHALL BE 4 1/4" x 4 1/4"
- SEE SHT. 'B' FOR BASE DETAILS.
- RASTER MASONRY ABOVE TYPICAL WNDW.

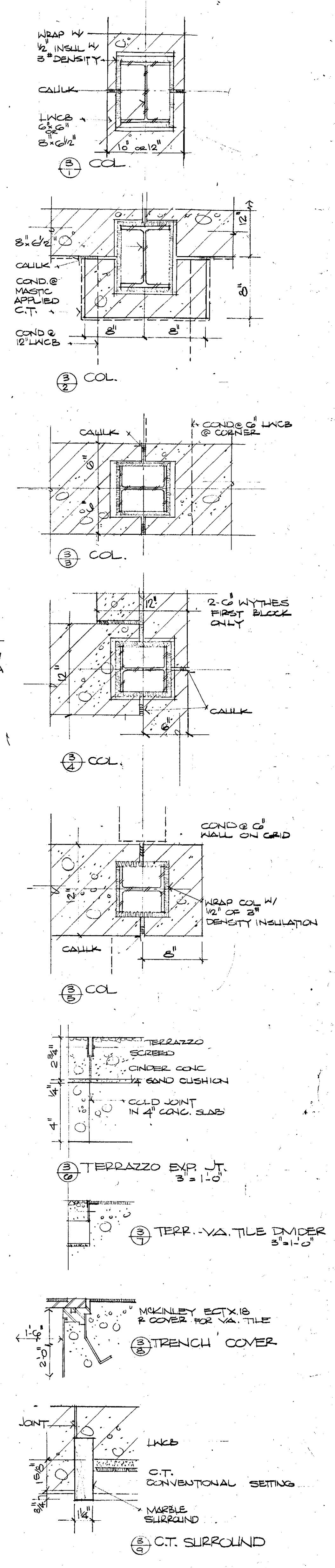
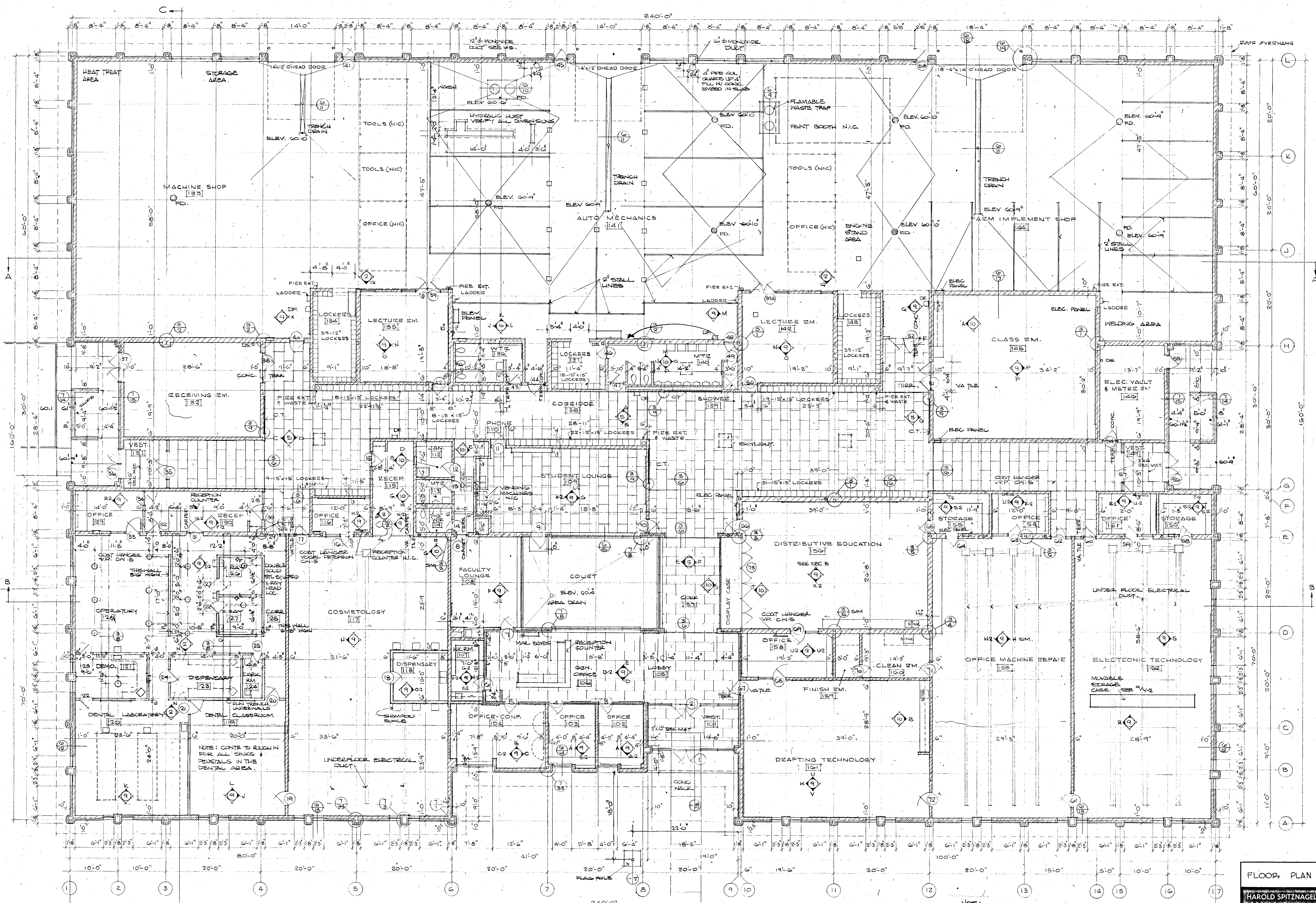
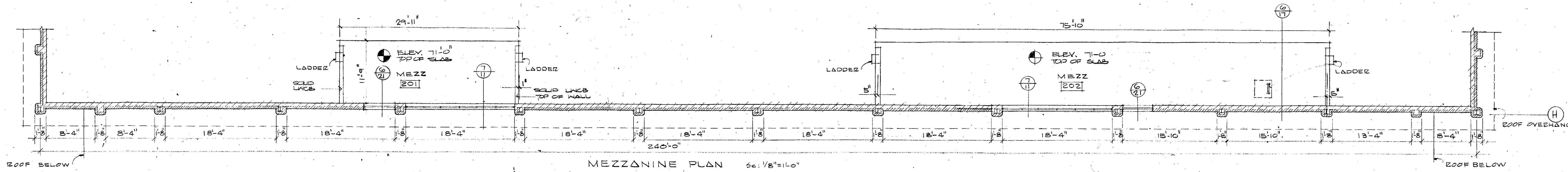
AC. BD. 2"x2" ACOUSTICAL BOARD  
 ACT. 1"x1" ACOUSTICAL TILE  
 CEMENTED TO PLASTER  
 CONC. CERAMIC TILE  
 CONCRETE  
 GYP. BD. GYPSUM BOARD  
 LWC.B. LIGHT WEIGHT CONCRETE BLOCK  
 PLST. PLASTER  
 PNT. PAINT  
 TERR. TERRAZZO  
 V.A.T. VINYL ASBESTOS TILE

**DOOR SCHEDULE**

MK	SIZE	MAT.	ELEV.	FINISH	DET.	LINTEL	MAT.	ELEV.	FINISH	HDN.	REMARKS
1	PR 30-7-0	ALUM.	SEE SHT. 7	---	---	---	HM	F.	1 1/2"	---	WEATHERSTRIP
2	PR 30-7-0	HM	2 1/2"	---	---	---	WD	E.	1 1/2"	---	
3	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	
4	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	
5	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	
6	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	D.	1 1/2"	---	WIRE GL.
7	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	E.	1 1/2"	---	WIRE GL.
8	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	E.	1 1/2"	---	WIRE GL.
9	30 x 7-0	ALUM.	SEE SHT. 7	---	---	---	HM	A.	1 1/2"	---	WEATHERSTRIP
10	30 x 7-0	HM	2 1/2"	---	---	---	WD	E.	1 1/2"	---	WIRE GL.
11	30 x 7-0	HM	2 1/2"	---	---	---	WD	E.	1 1/2"	---	WIRE GL.
12	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	B.	1 1/2"	---	
13	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	B.	1 1/2"	---	
14	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	B.	1 1/2"	---	
15	30 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	WIRE GL.
16	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	B.	1 1/2"	---	
17	30 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	WIRE GL.
18	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	G.	1 1/2"	---	DUTCH DOOR
19	8-0 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	
20	8-0 x 7-0	HM	2 1/2"	---	---	---	WD	E.	1 1/2"	---	
21	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	E.	1 1/2"	---	
22	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	E.	1 1/2"	---	
23	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	E.	1 1/2"	---	
24	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	D.	1 1/2"	---	
25	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	WEATHERSTRIP
26	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	D.	1 1/2"	---	DOUBLE ACTING
27	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	D.	1 1/2"	---	DOUBLE ACTING
28	---	---	---	---	---	---	---	---	---	---	
29	30 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	WIRE GL.
30	30 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	WIRE GL.
31	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	D.	1 1/2"	---	
32	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	
33	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	B.	1 1/2"	---	
34	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	
35	PR 30-7-0	HM	2 1/2"	---	---	---	WD	E.	1 1/2"	---	
36	PR 30-7-0	HM	SEE SHT. 7	---	---	---	HM	F.	1 1/2"	---	REMOVABLE MULLION, WEATHERSTRIP
37	PR 30-7-0	HM	SEE SHT. 7	---	---	---	HM	A.	1 1/2"	---	ASTRAGAL, WEATHERSTRIP
38	PR 30-7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	
39	PR 26-7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	
40	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	H.	1 1/2"	---	1/2" LABEL, WIRE GL.
41	2-4 x 7-2	HM	SEE SHT. 7	---	---	---	HM	E.	1 1/2"	---	WEATHERSTRIP
42	3-0 x 7-0	HM	2 1/2"	---	---	---	WD	H.	1 1/2"	---	1/2" LABEL, WIRE GL.
43	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	C.	1 1/2"	---	
44	3-0 x 7-0	HM	2 1/2"	---	---	---	WD	E.	1 1/2"	---	1/2" LABEL, WIRE GL.
45	2-4 x 7-2	HM	SEE SHT. 7	---	---	---	HM	E.	1 1/2"	---	WEATHERSTRIP
46	2-8 x 7-0	HM	2 1/2"	---	---	---	HM	E.	1 1/2"	---	
47	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	1/2" LABEL
48	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	
49	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	B.	1 1/2"	---	
50	30 x 7-0	HM	2 1/2"	---	---	---	WD	H.	1 1/2"	---	1/2" LABEL, WIRE GL.
51	PR 30-7-0	HM	2 1/2"	---	---	---	WD	E.	1 1/2"	---	WIRE GL.
52	1-8 x 7-0	HM	2 1/2"	---	---	---	HM	H.	1 1/2"	---	1/2" LABEL, WIRE GL., NO MULLION
53	2-4 x 7-2	HM	SEE SHT. 7	---	---	---	HM	E.	1 1/2"	---	WEATHERSTRIP
54	3-0 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	
55	3-0 x 7-0	HM	SEE SHT. 7	---	---	---	HM	A.	1 1/2"	---	WEATHERSTRIP
56	PR 30-7-0	HM	SEE SHT. 7	---	---	---	HM	F.	1 1/2"	---	REMOVABLE MULLION, WEATHERSTRIP
57	PR 30-7-0	HM	2 1/2"	---	---	---	WD	E.	1 1/2"	---	
58	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	D.	1 1/2"	---	
59	30 x 7-0	HM	2 1/2"	---	---	---	WD	B.	1 1/2"	---	
60	3-0 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	WIRE GL.
61	8-0 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	
62	8-0 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	WIRE GL.
63	8-0 x 7-0	HM	2 1/2"	---	---	---	WD	B.	1 1/2"	---	
64	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	D.	1 1/2"	---	
65	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	
66	3-0 x 7-0	HM	2 1/2"	---	---	---	WD	E.	1 1/2"	---	WIRE GL.
67	3-0 x 7-0	HM	2 1/2"	---	---	---	WD	E.	1 1/2"	---	WIRE GL.
68	3-0 x 7-0	HM	2 1/2"	---	---	---	WD	B.	1 1/2"	---	
69	3-0 x 7-0	HM	2 1/2"	---	---	---	WD	B.	1 1/2"	---	
70	2-8 x 7-0	HM	2 1/2"	---	---	---	WD	H.	1 1/2"	---	DOUBLE ACTING
71	3-0 x 7-0	HM	2 1/2"	---	---	---	WD	H.	1 1/2"	---	DOUBLE ACTING
72	3-0 x 7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	
73	3R 62-7-0	HM	2 1/2"	---	---	---	WD	A.	1 1/2"	---	SEE SHT. 10 FOR DETAILS



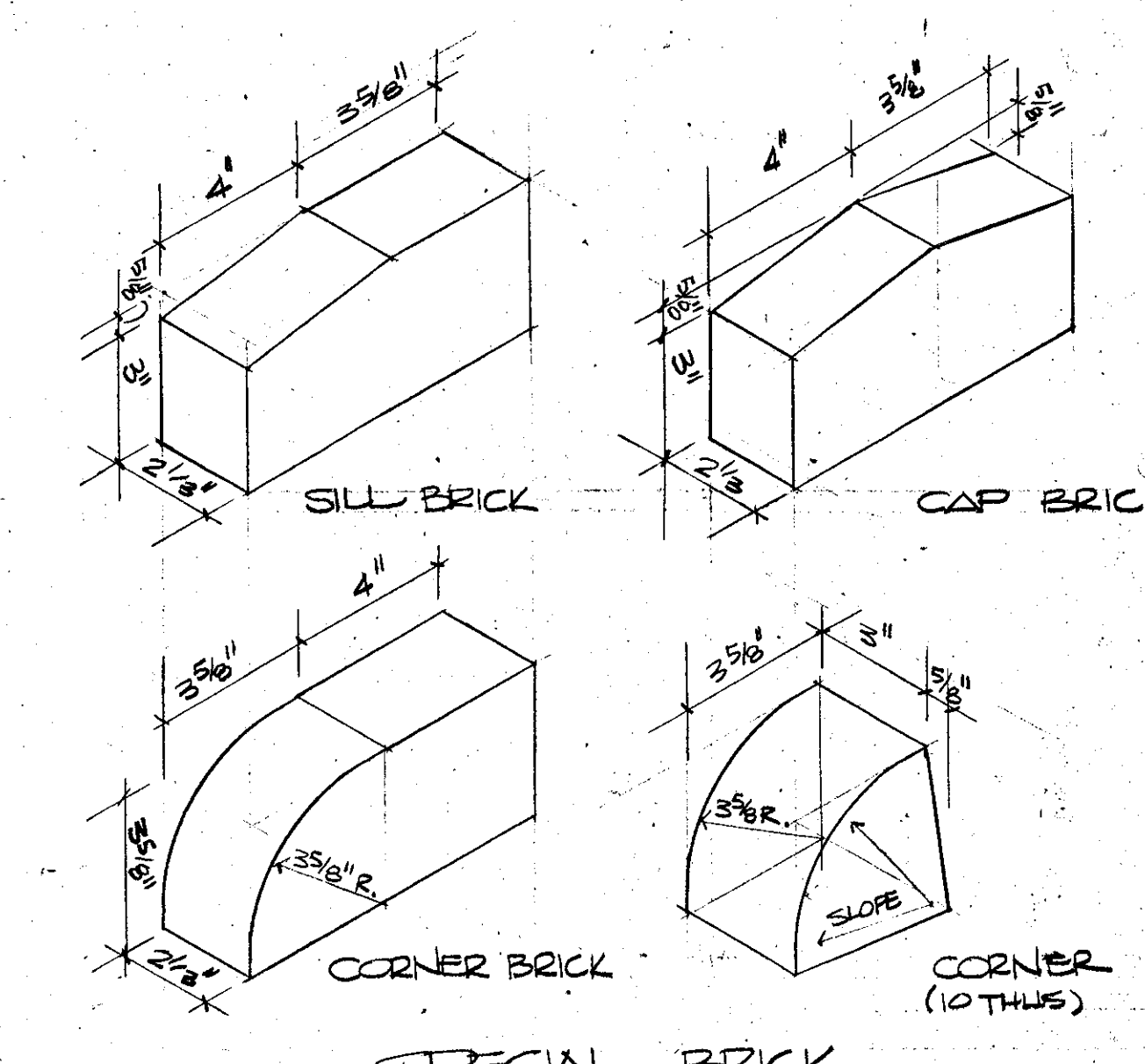
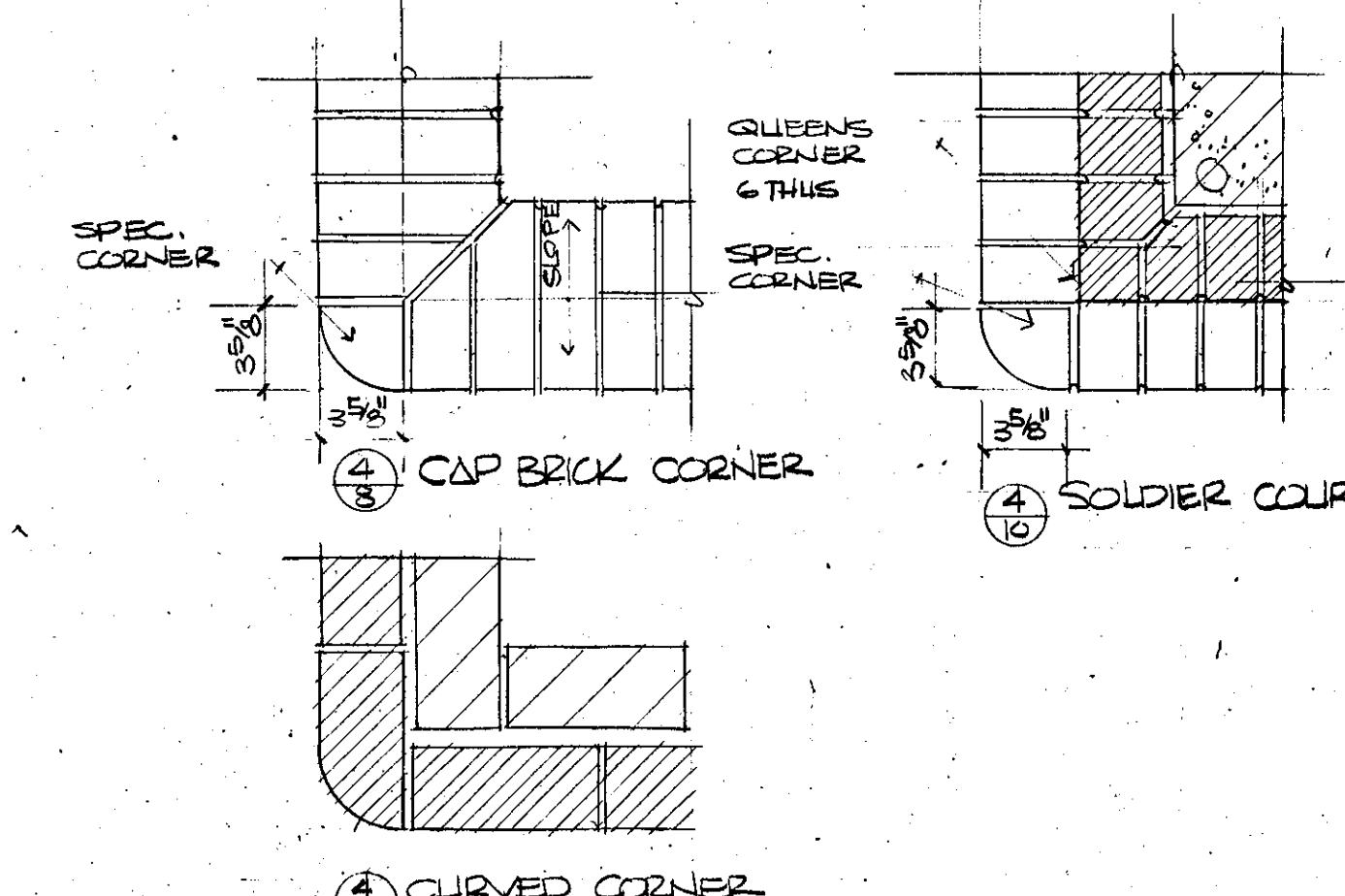
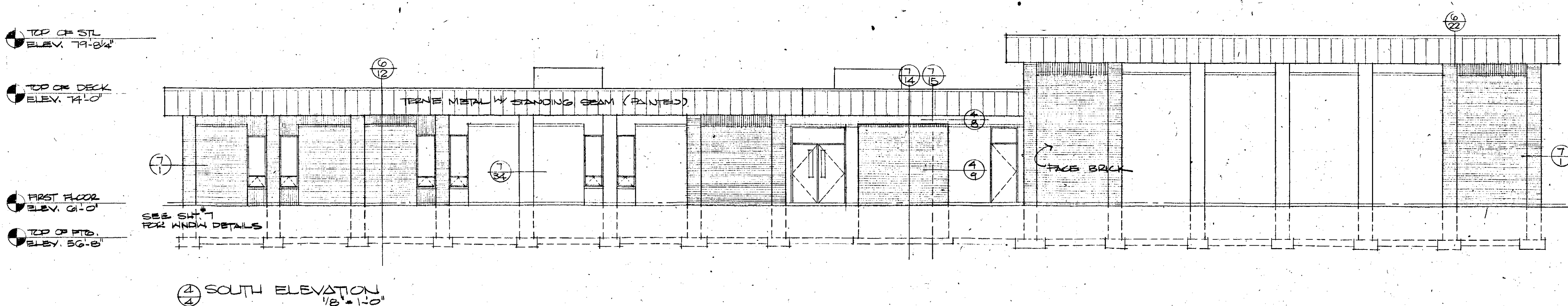
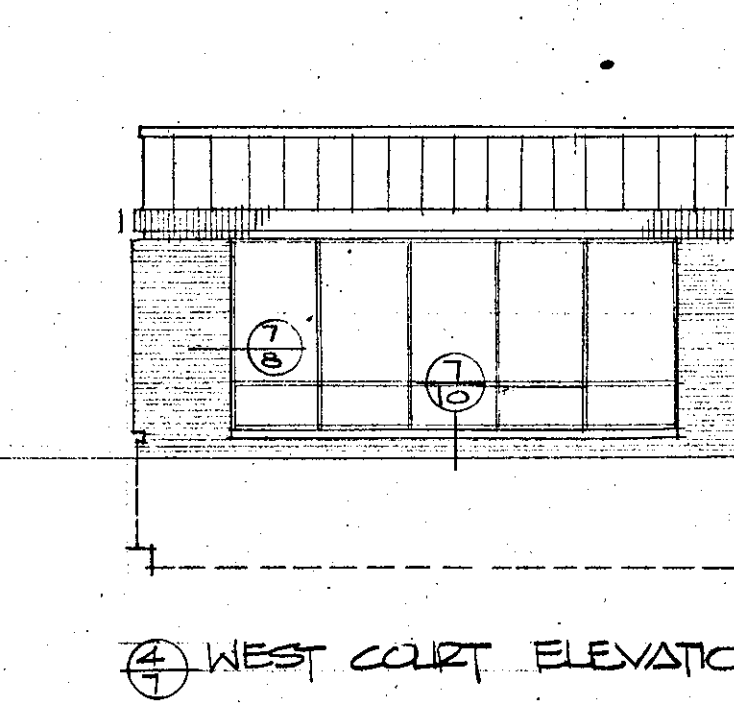
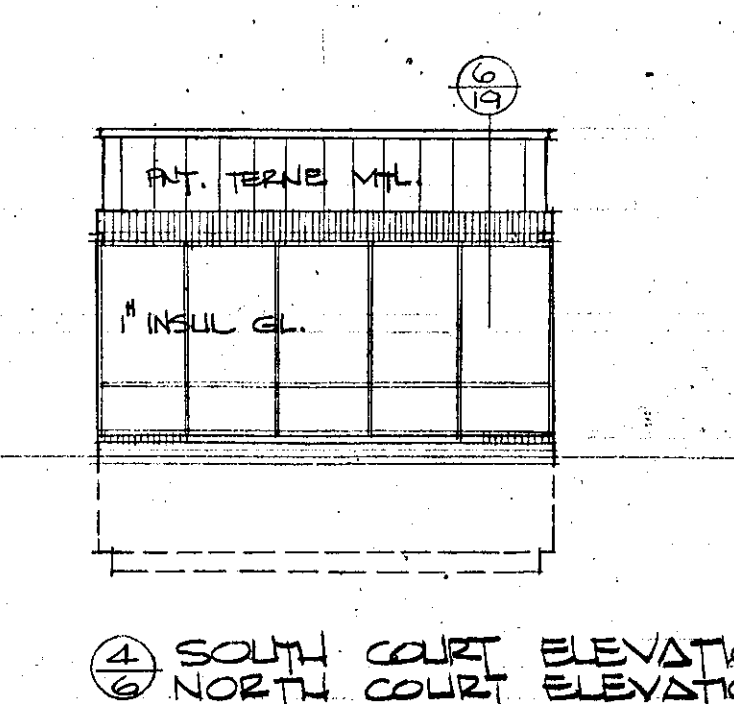
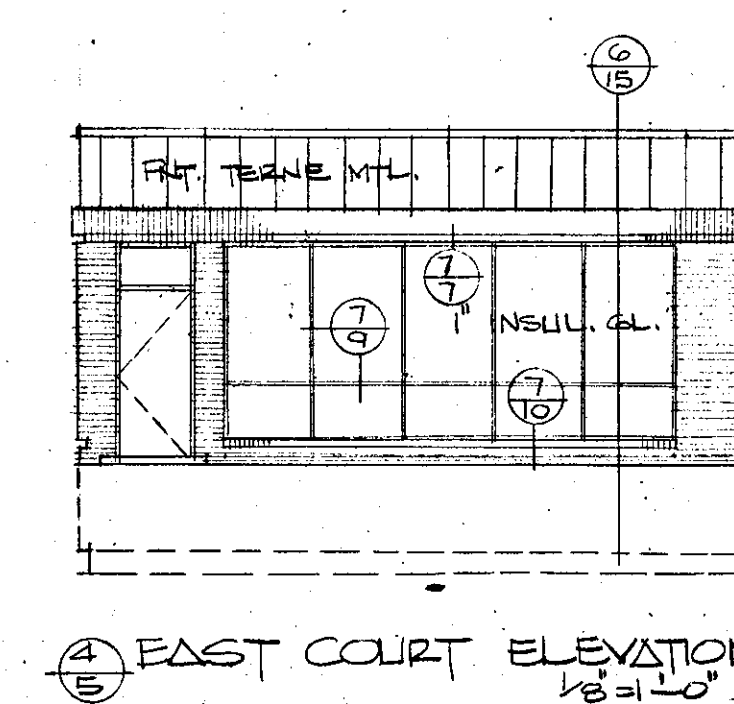
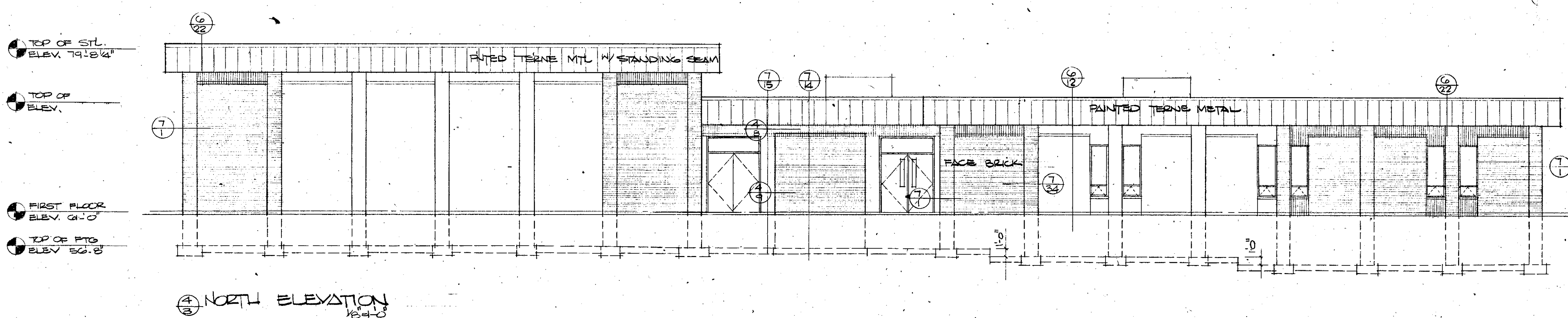
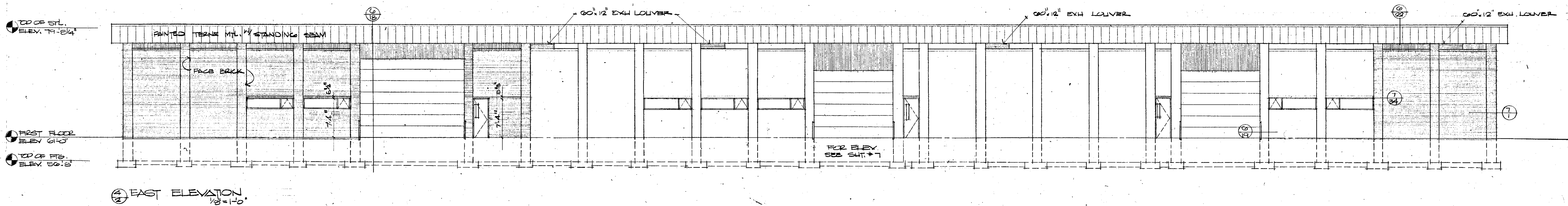
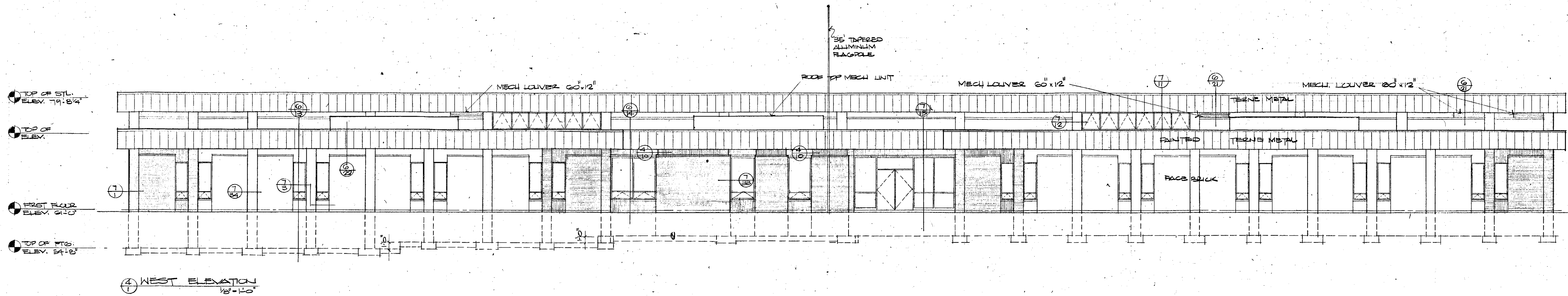




- NOTE:
1. 5' OFF ED WALL - 5/8" STL STUD + 1/2" GYPS. EACH SIDE.
  2. PLASTER W/ WINDOWS 2'-3" WIDE ON EA. SIDE ARE AIR DUCTS.

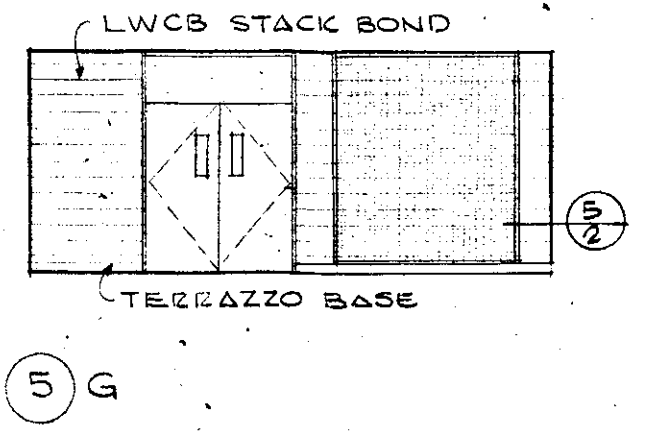
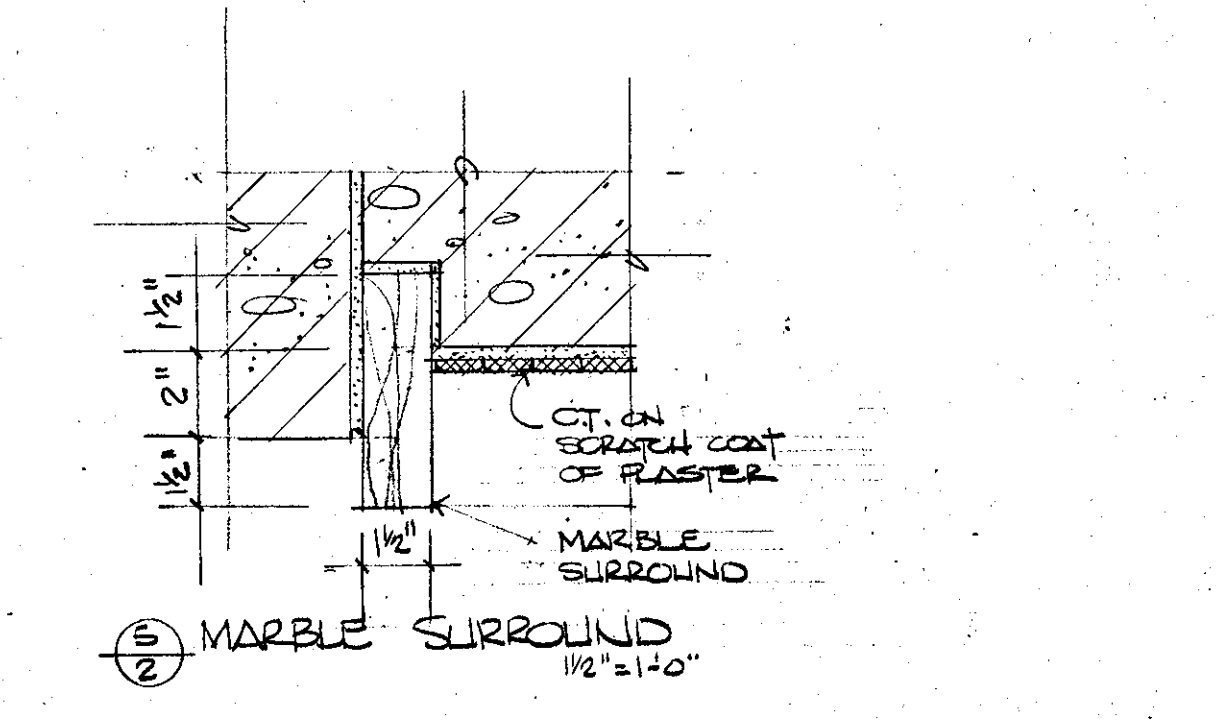
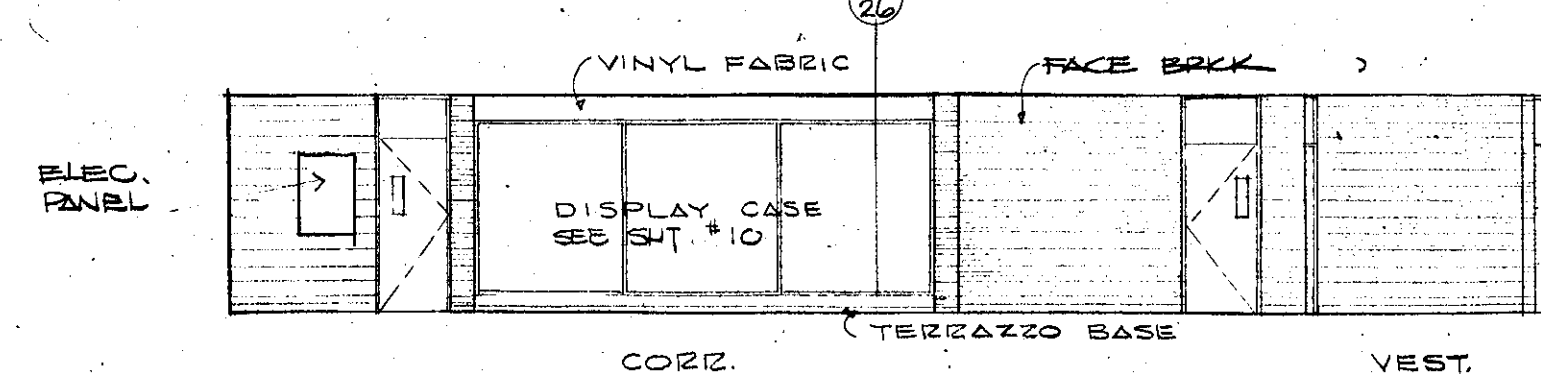
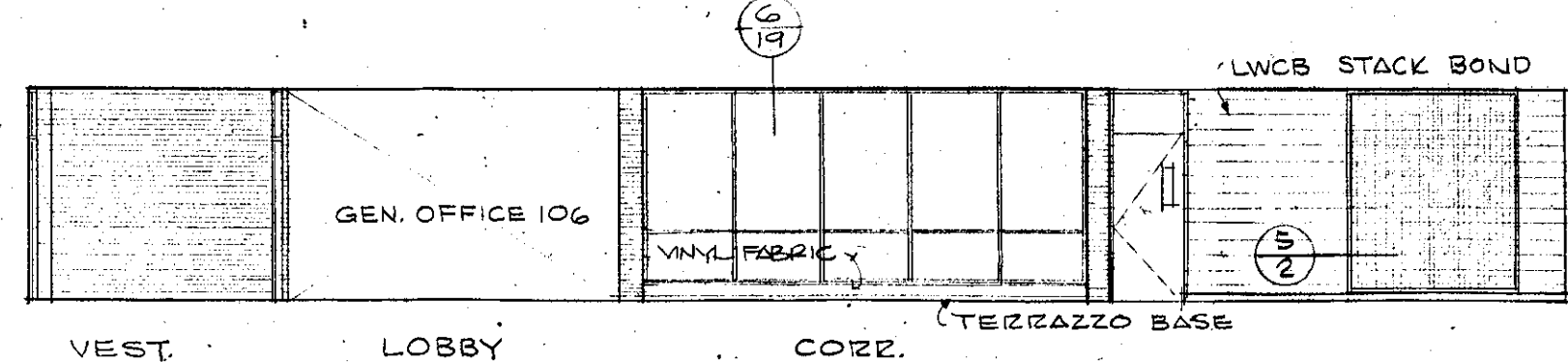
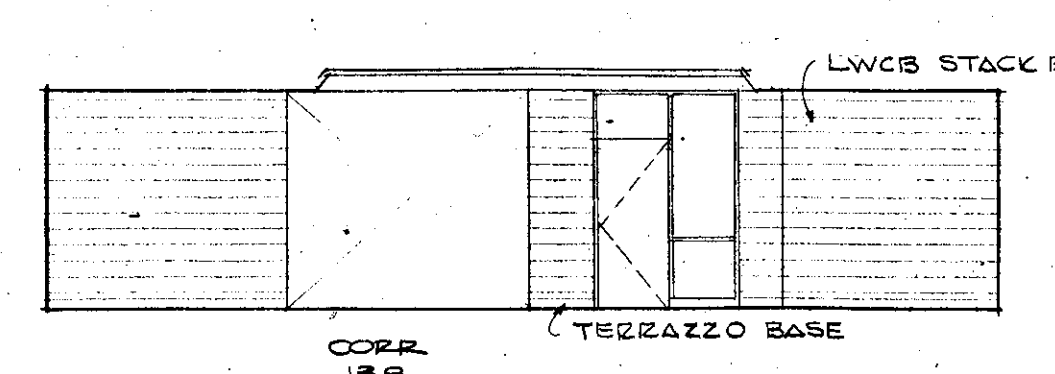
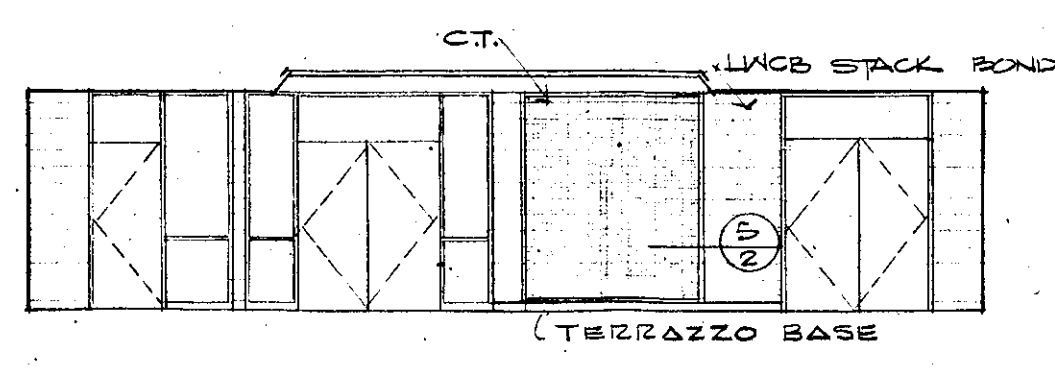
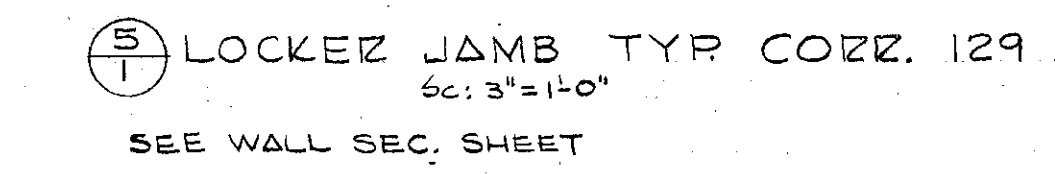
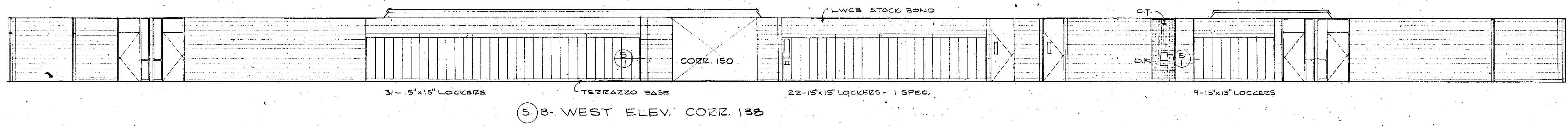
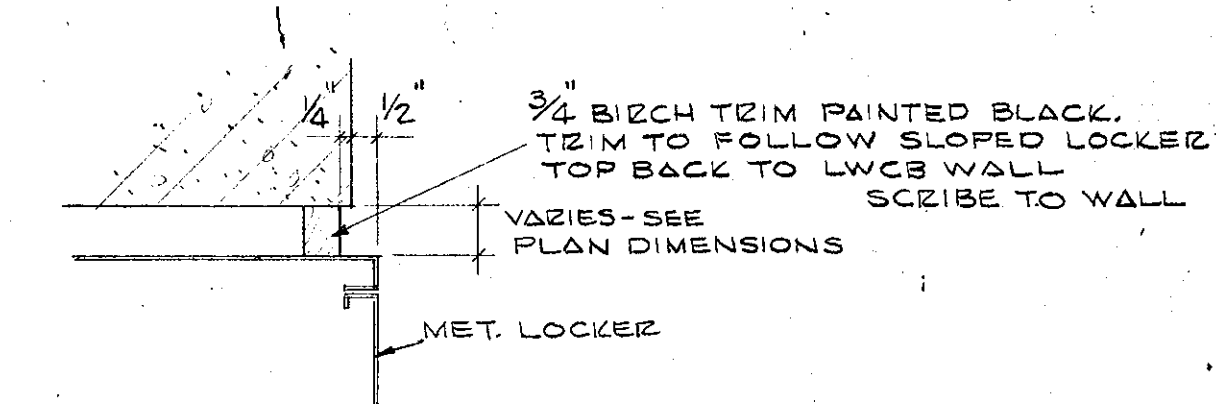
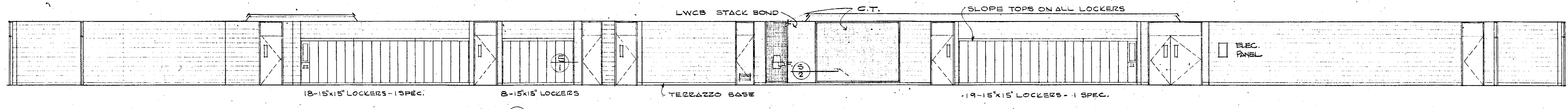
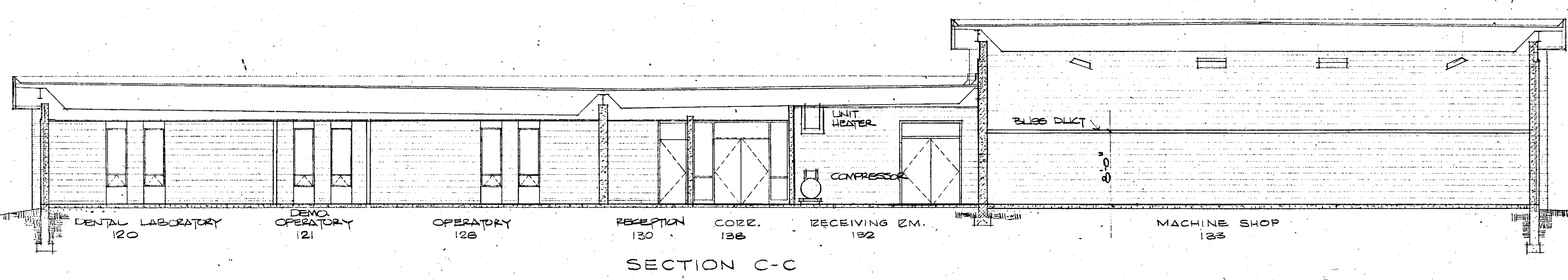
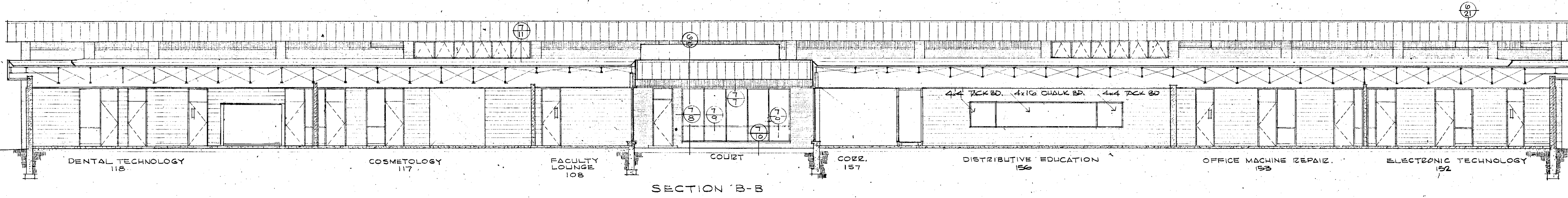
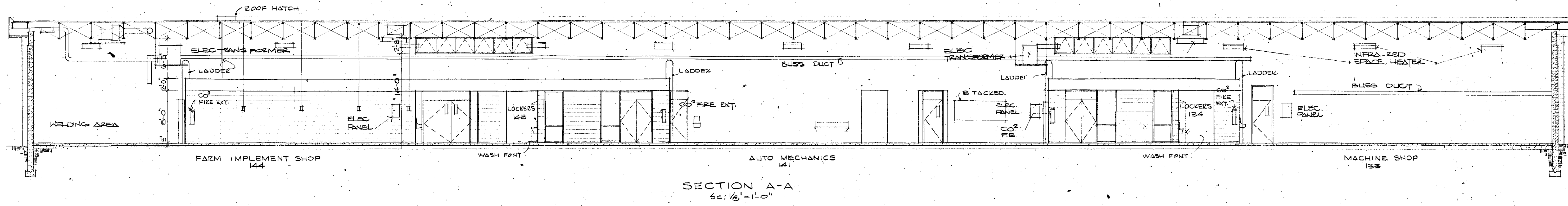
FLOOR PLAN		NO. 6541
HAROLD SPITZNAGEL AND ASSOCIATES ARCHITECTS AND ENGINEERS 1800 SOUTH HANCOCK AVENUE, SUITE 200, DENVER, COLORADO 80202		DATE: MAR. 14, 1966
ROBEL AND POPE ARCHITECTS - ASSOCIATE ARCHITECTS		CHECKED: [ ]
		3



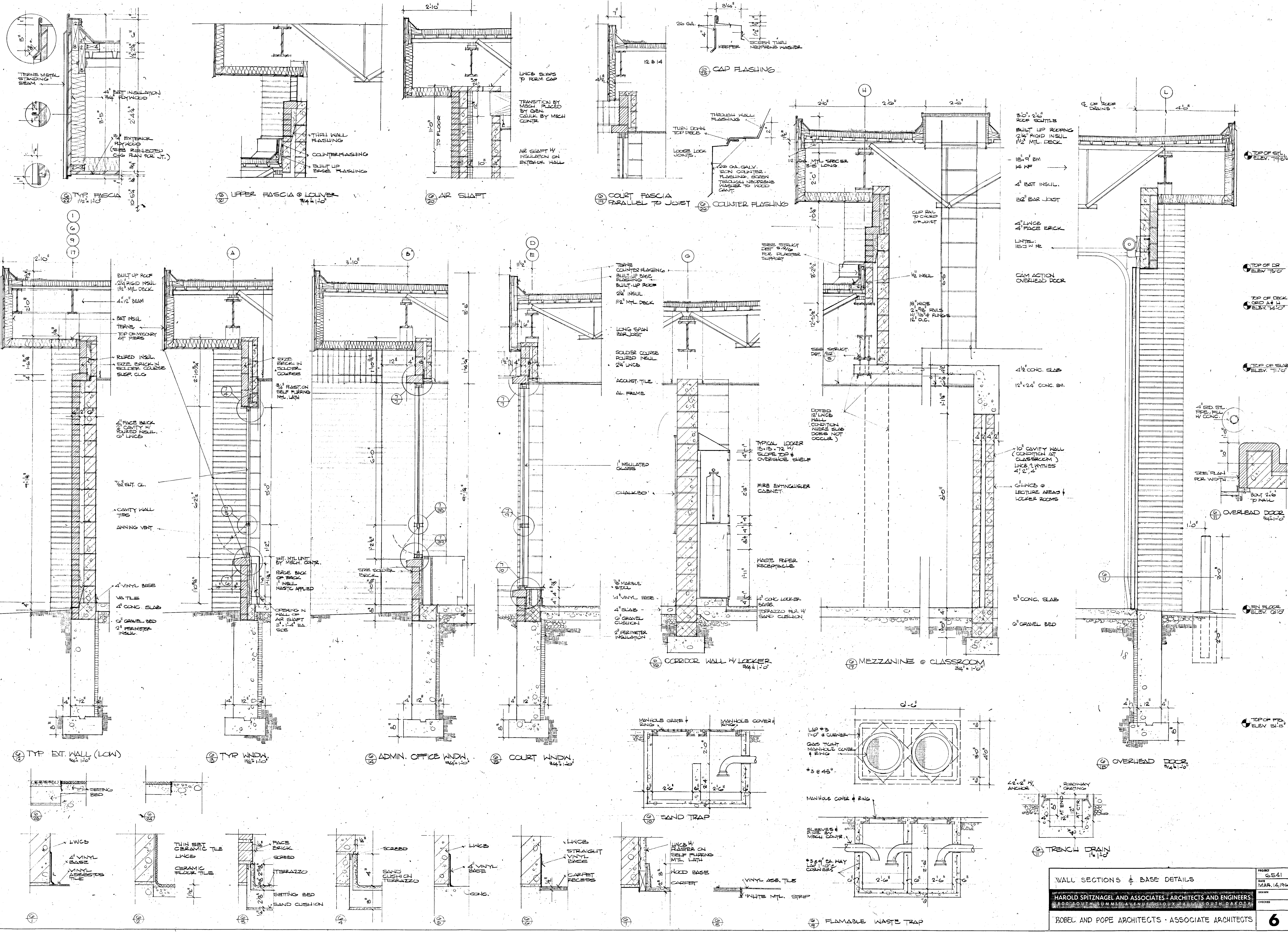


ELEVATIONS		PROJECT	6541
		DATE	MAR. 14, 1966
HAROLD SPITZNAGEL AND ASSOCIATES - ARCHITECTS AND ENGINEERS 1800 SOUTH SUMMIT AVENUE - SIOUX FALLS, SOUTH DAKOTA		DRAWN	
ROBEL AND POPE ARCHITECTS - ASSOCIATE ARCHITECTS		CHECKED	
			<b>4</b>

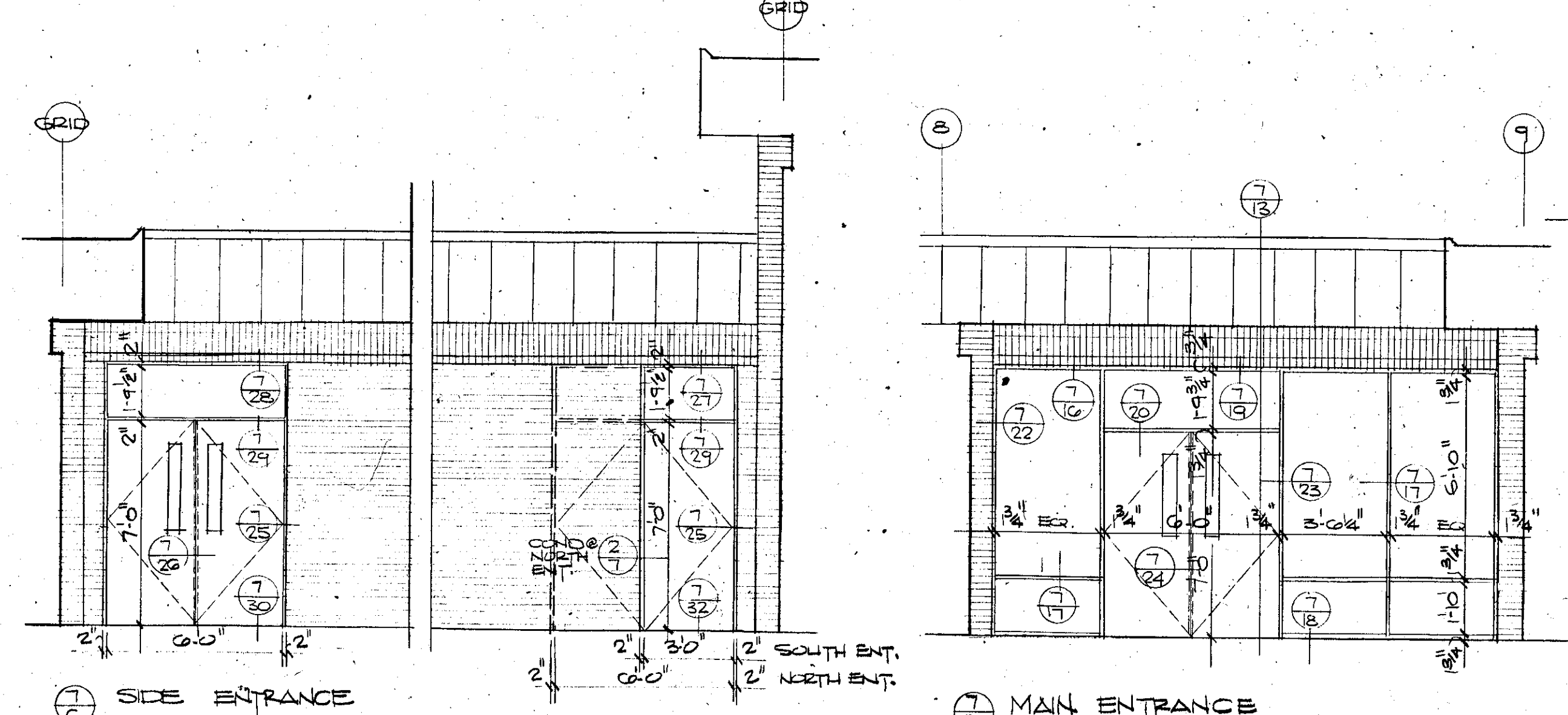
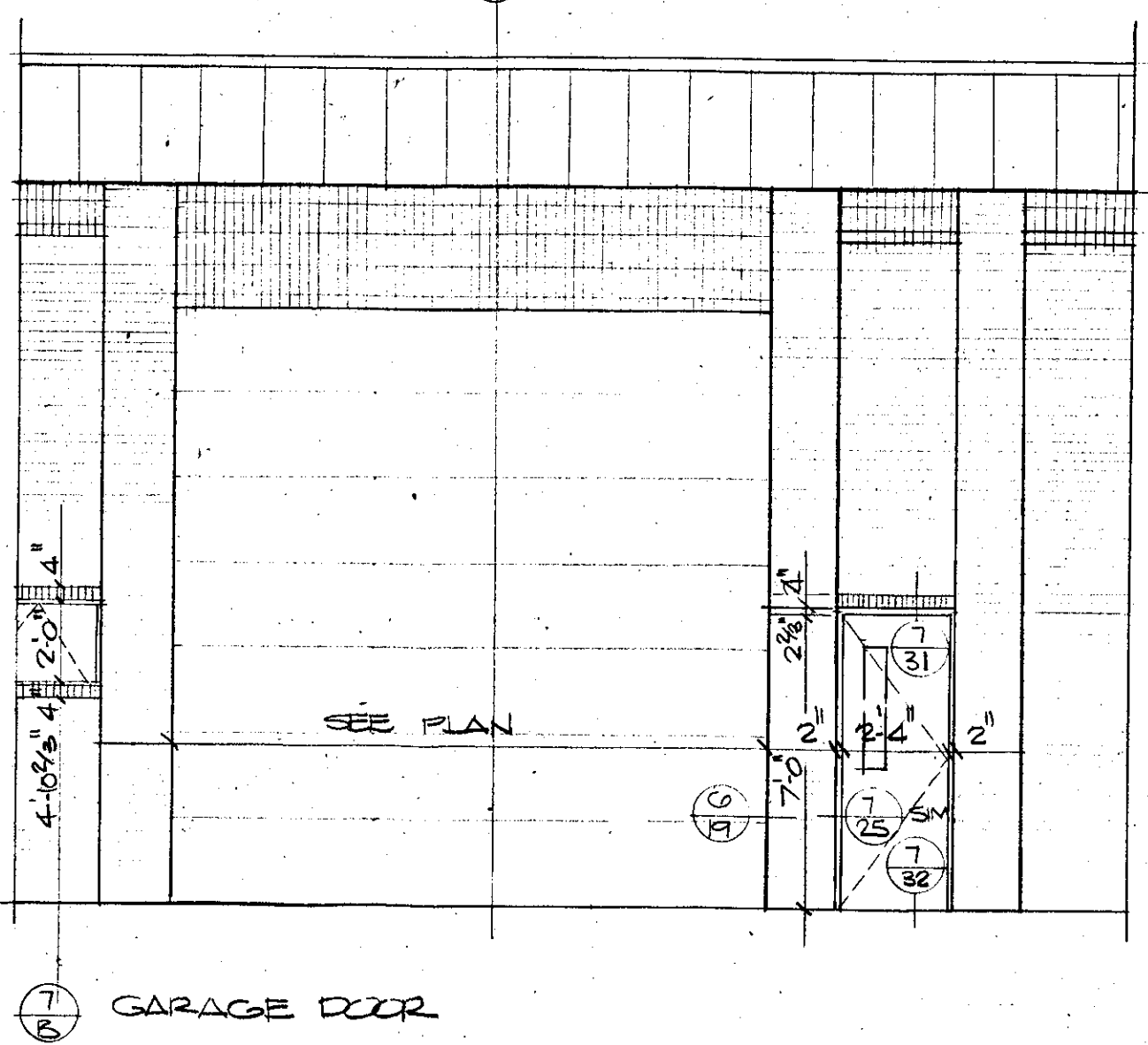
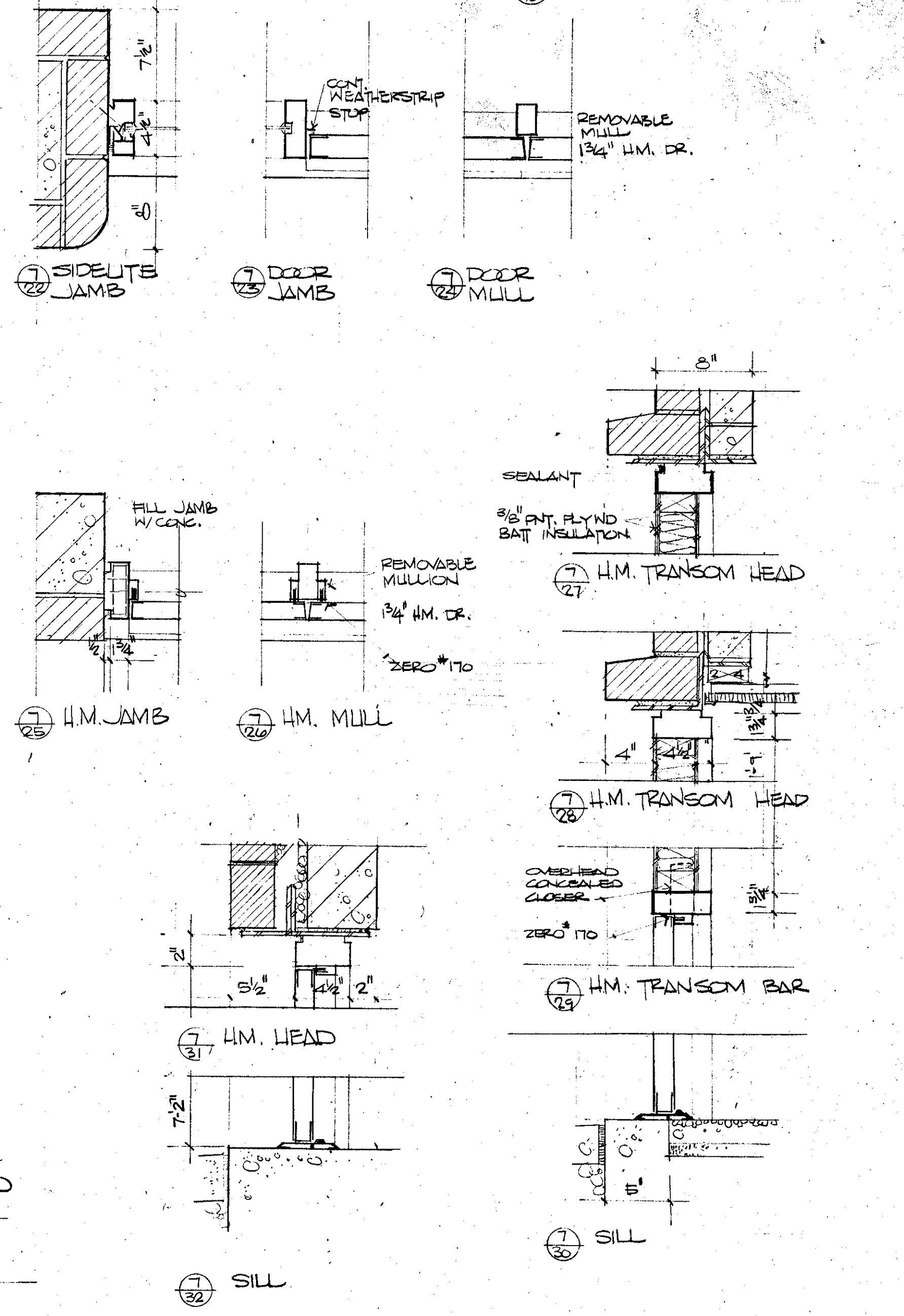
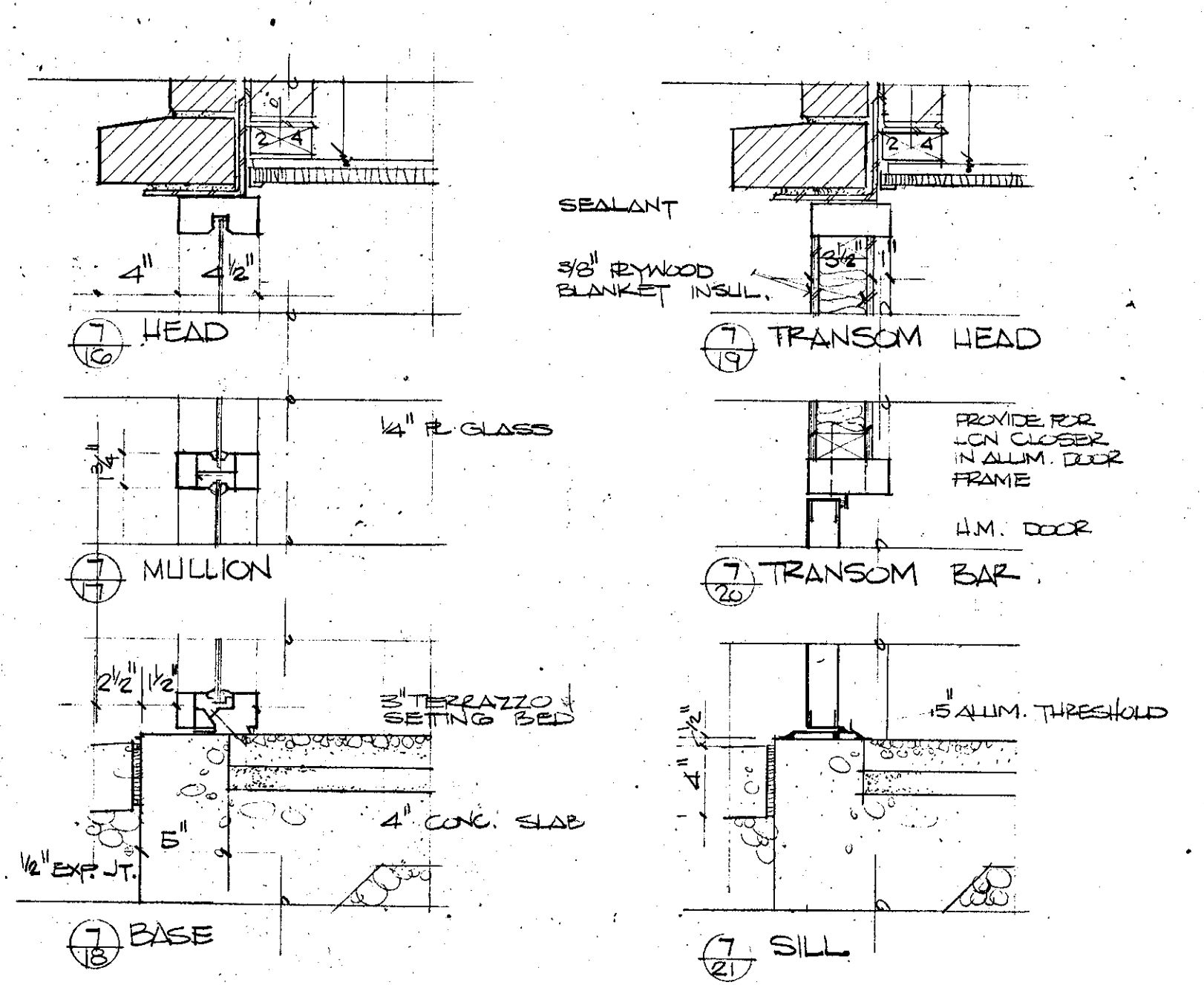
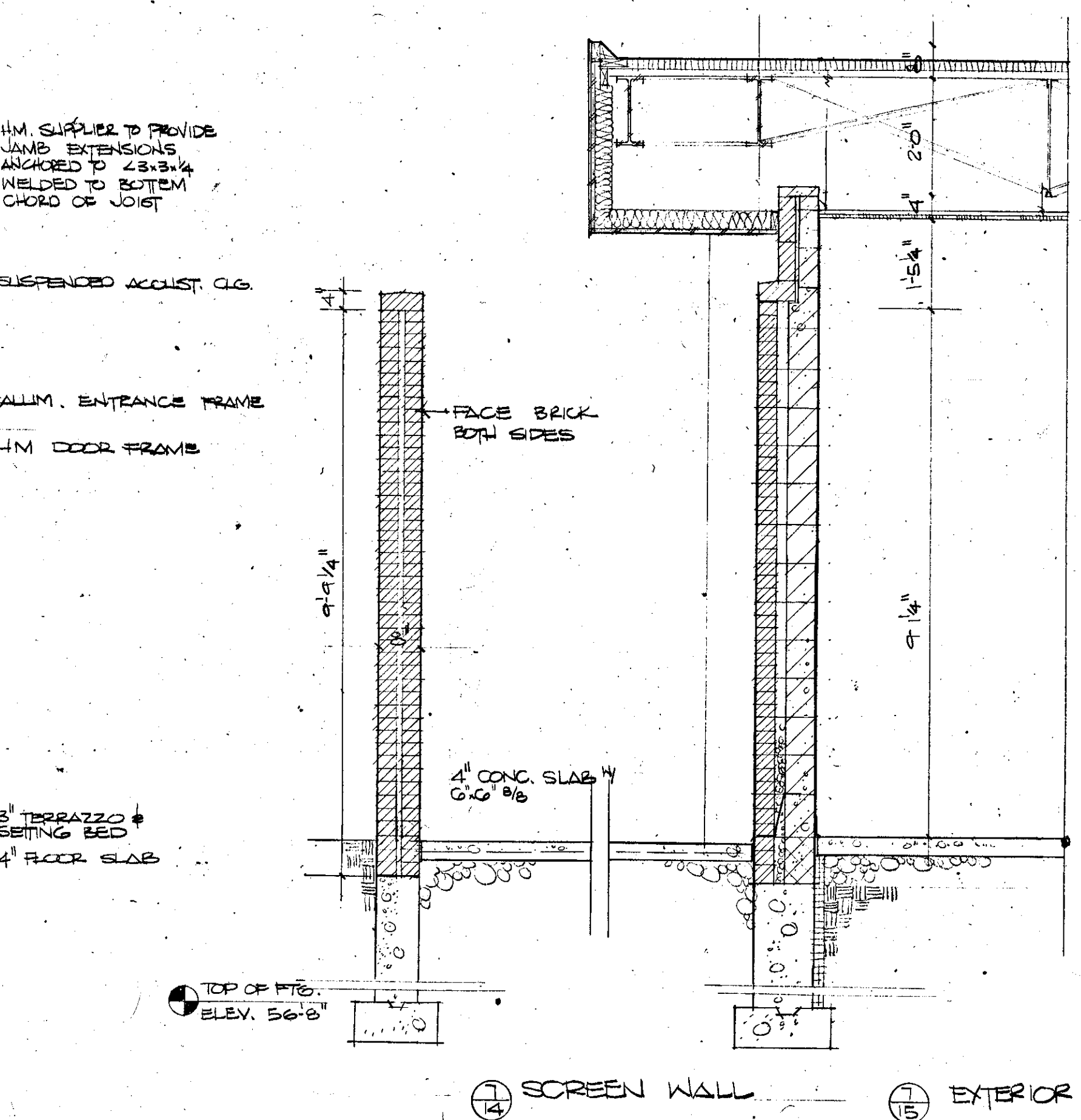
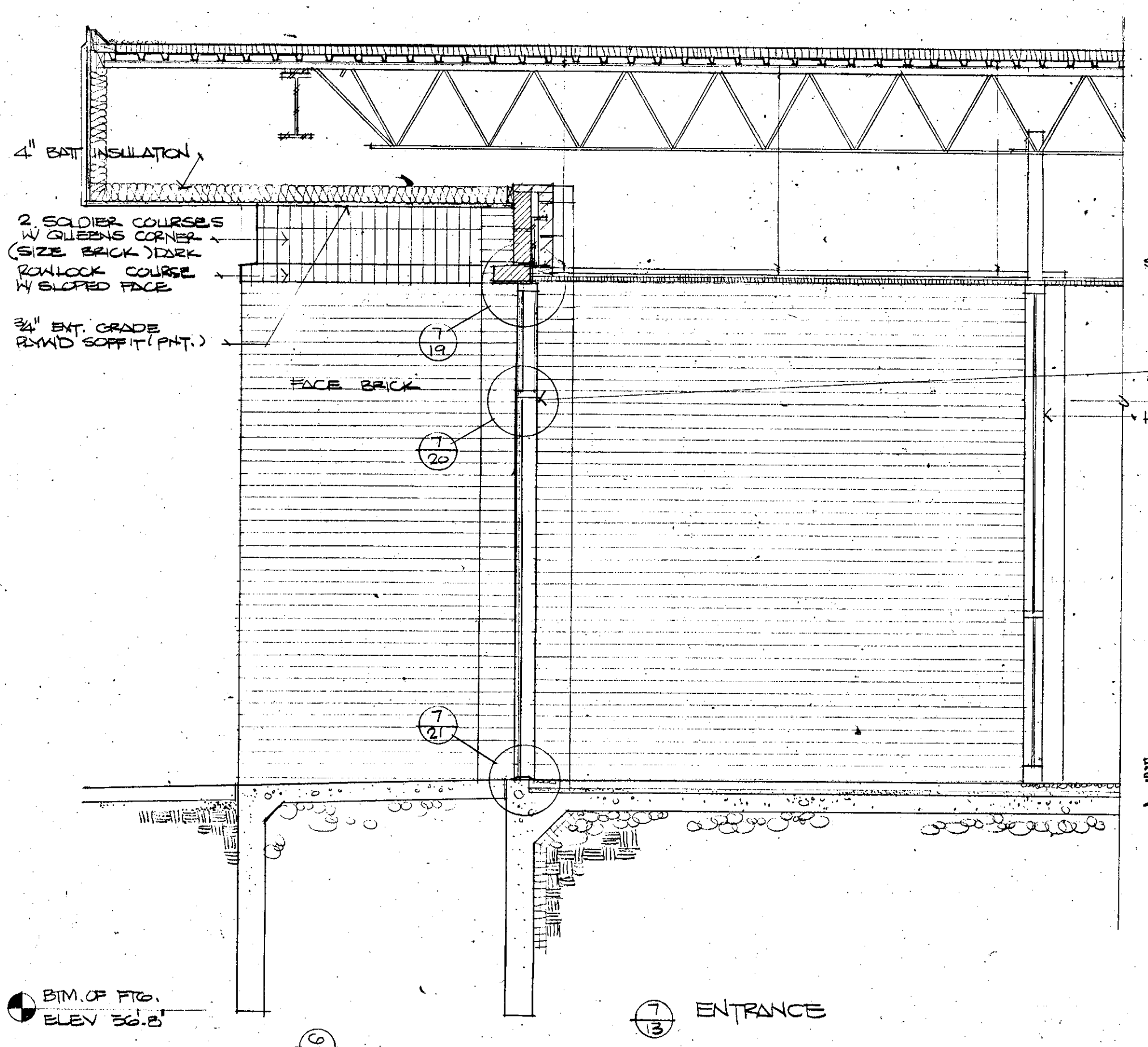
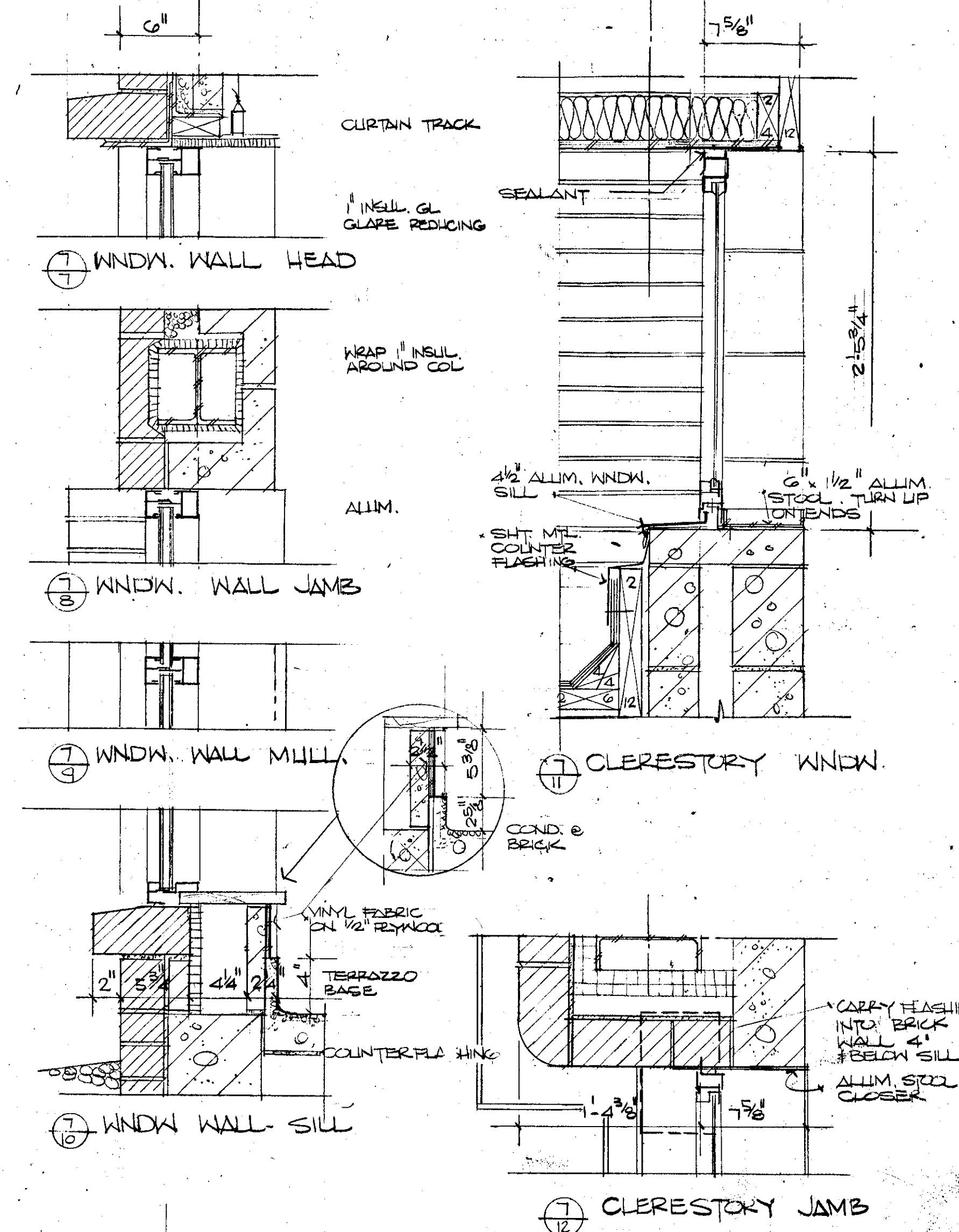
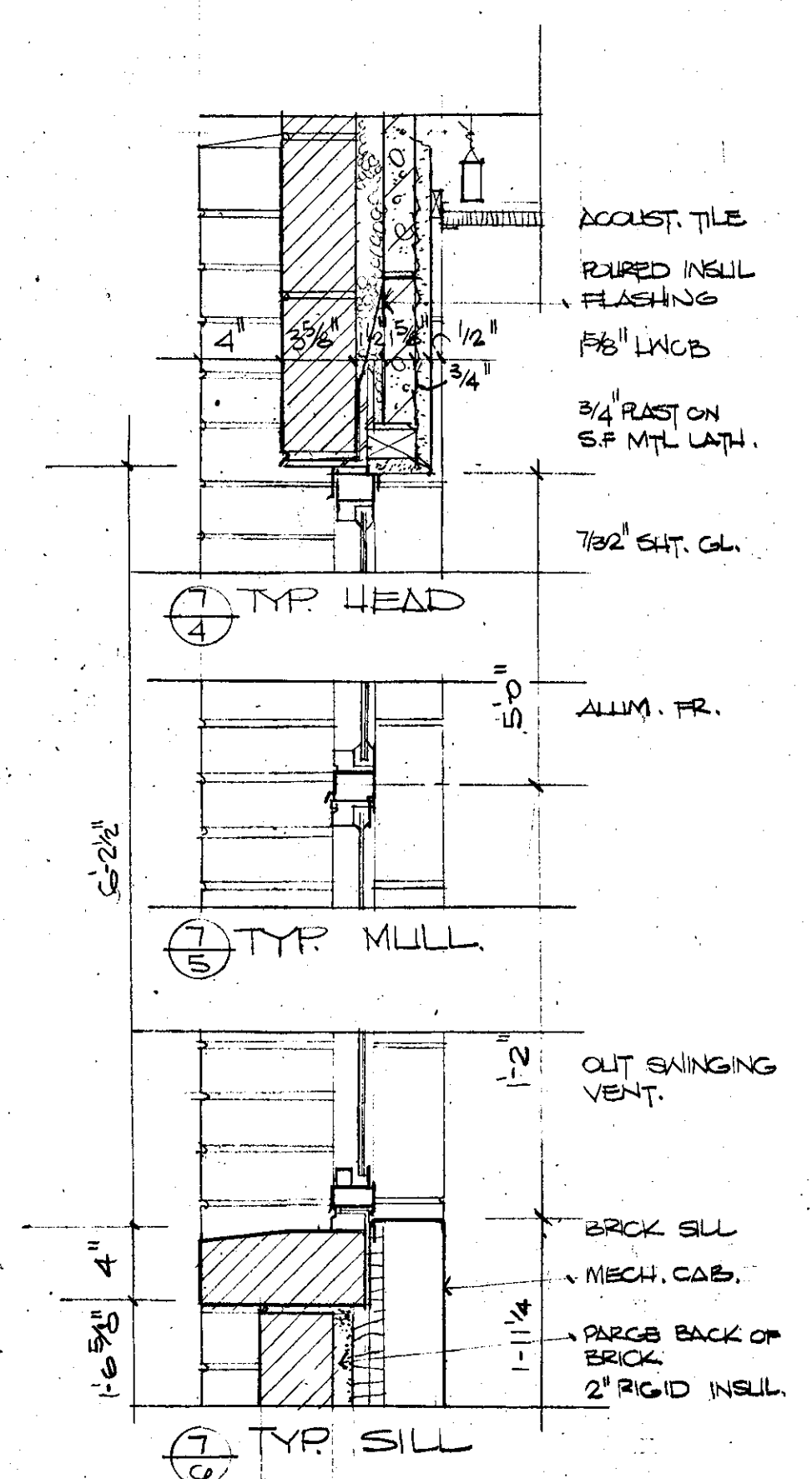
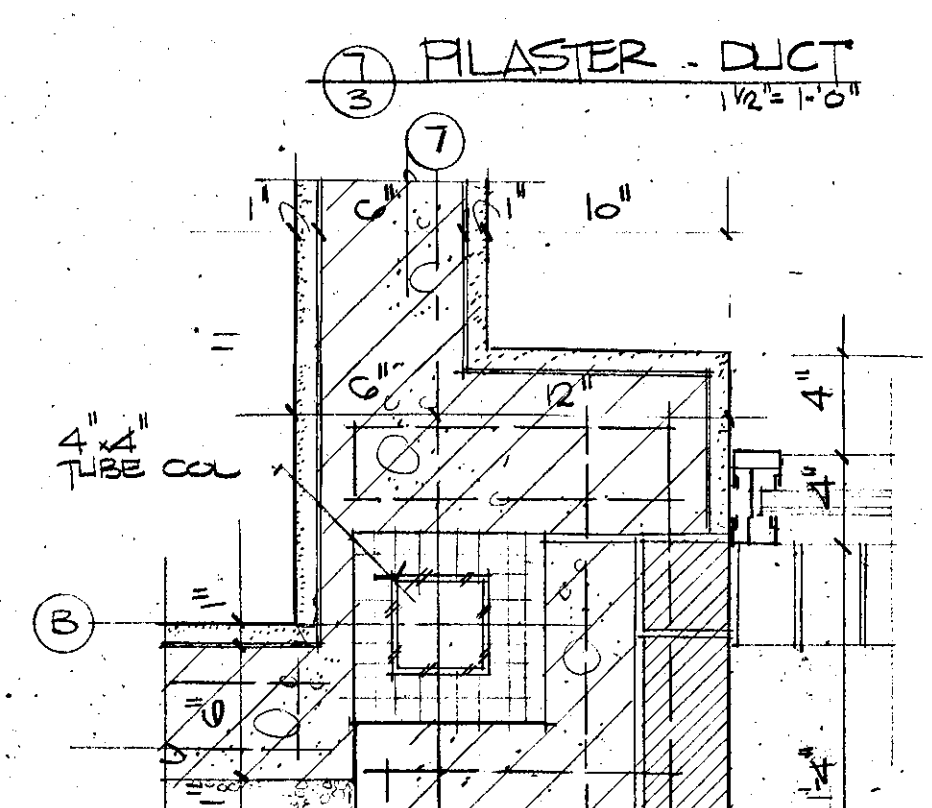
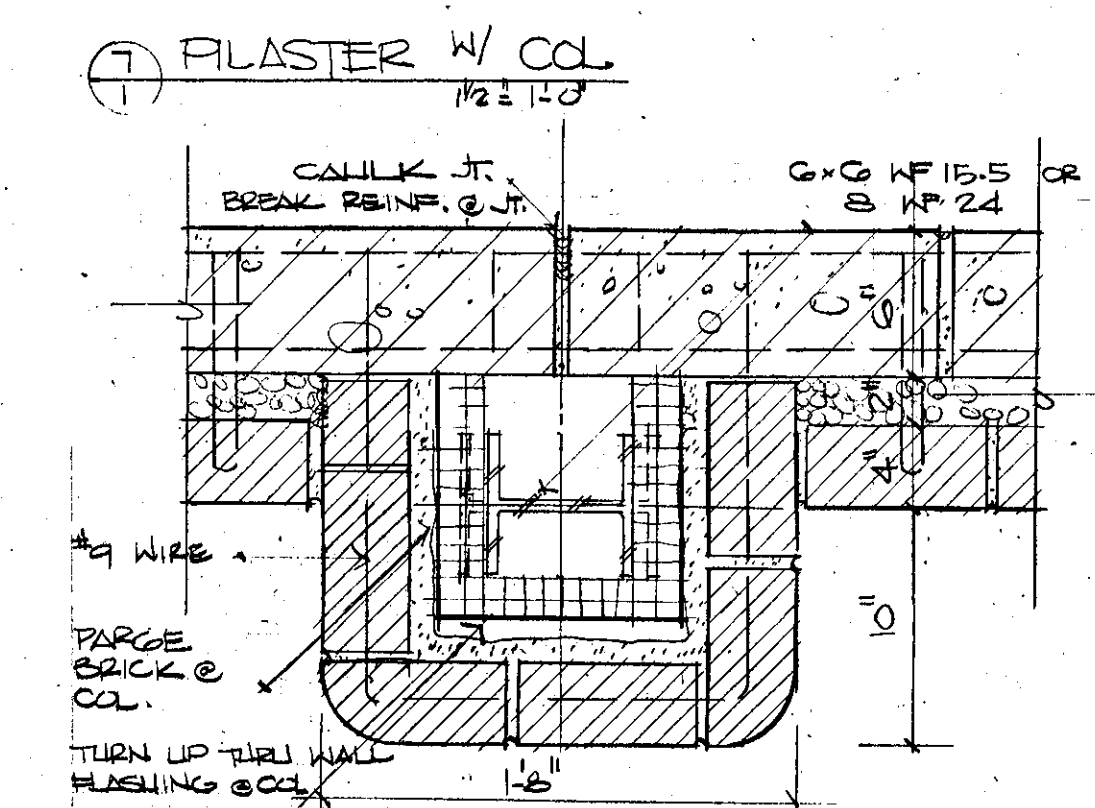
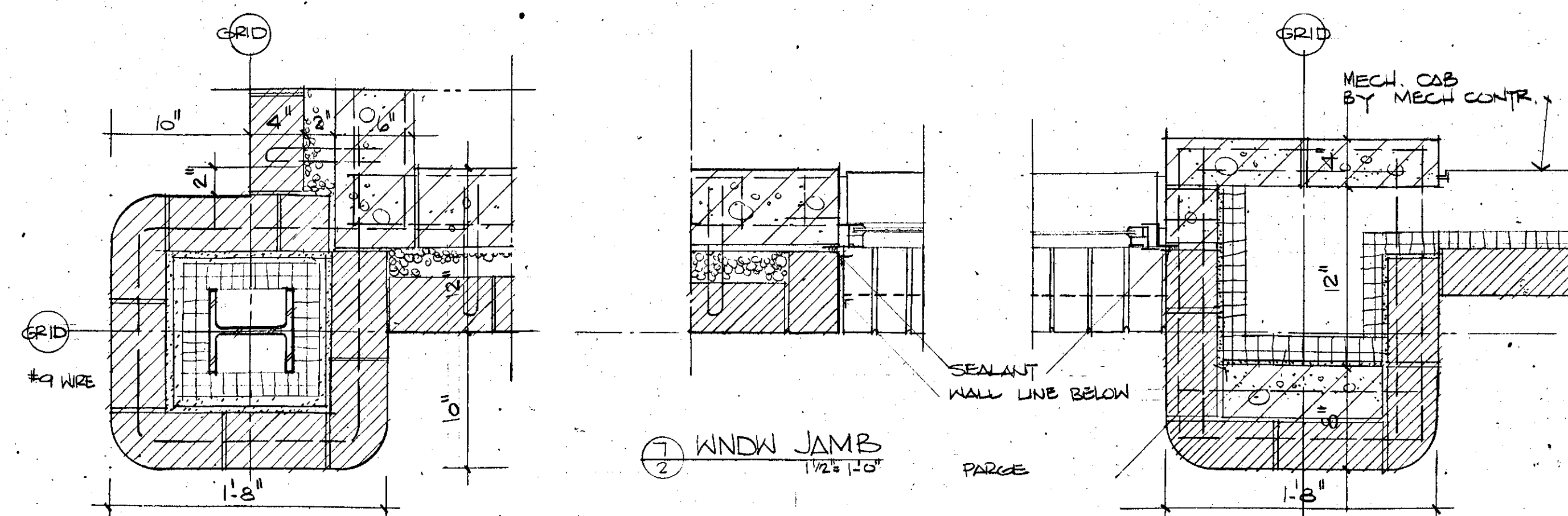
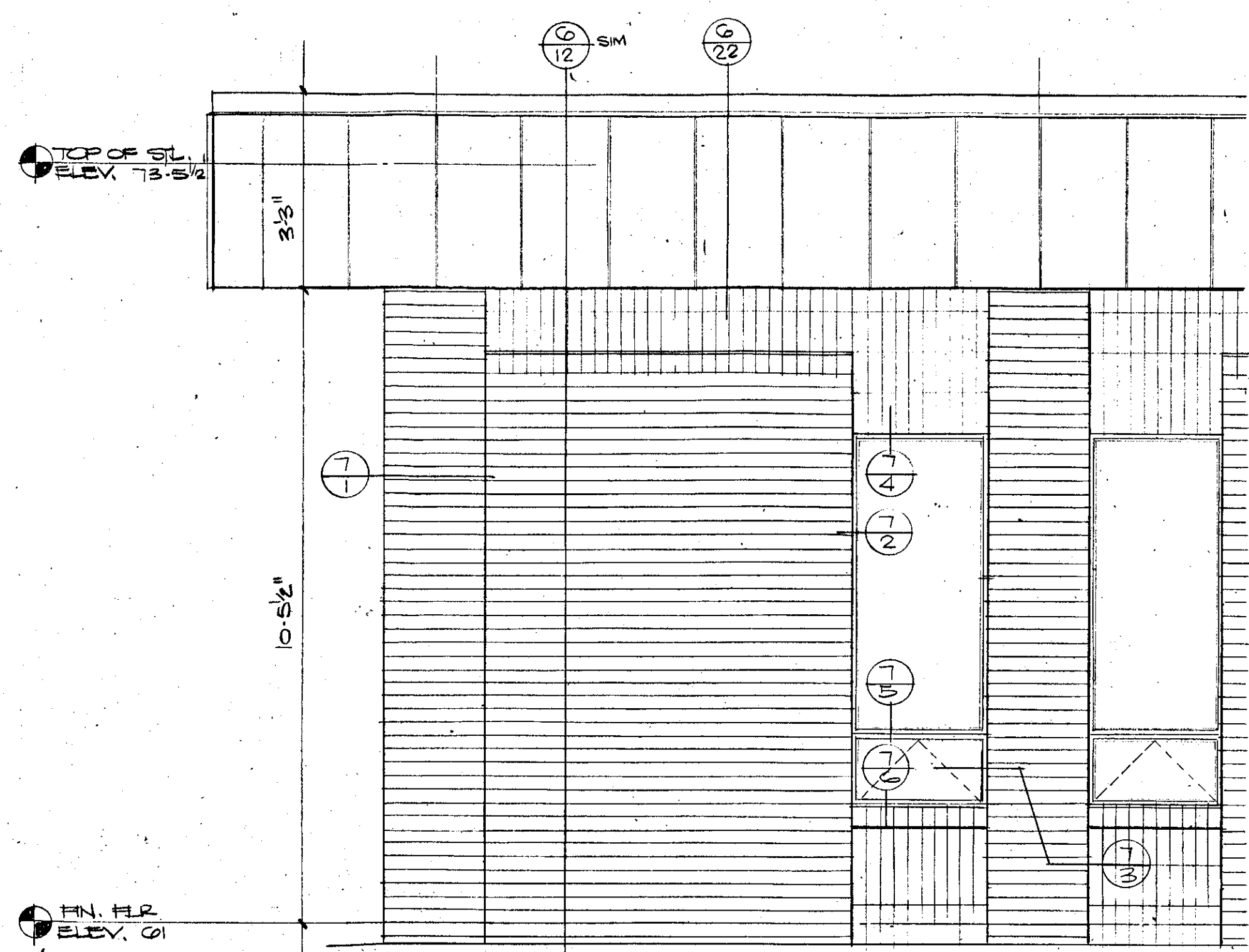






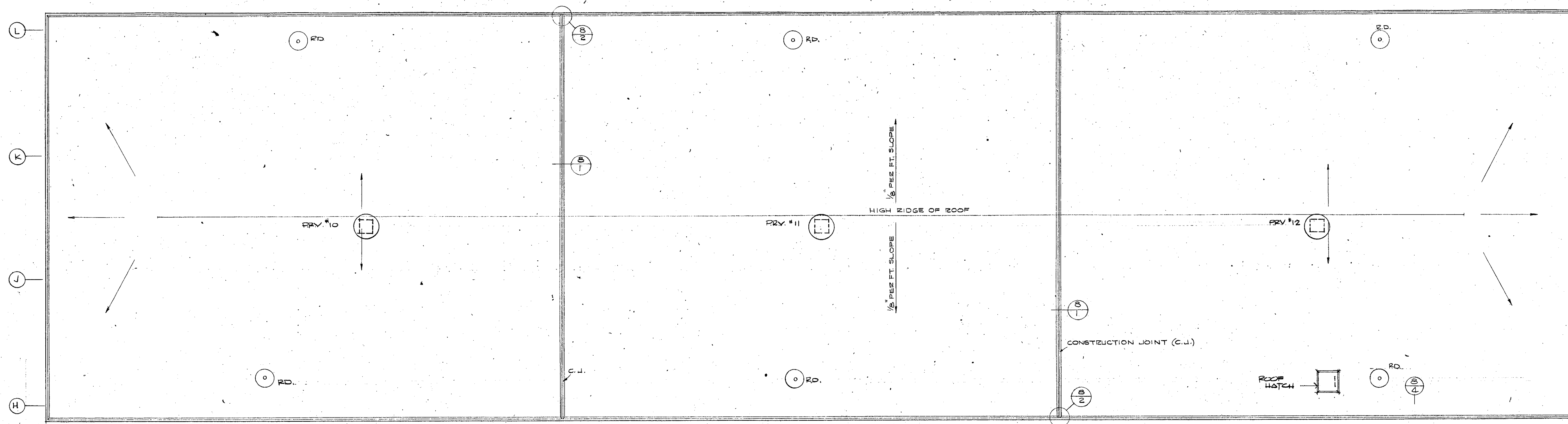




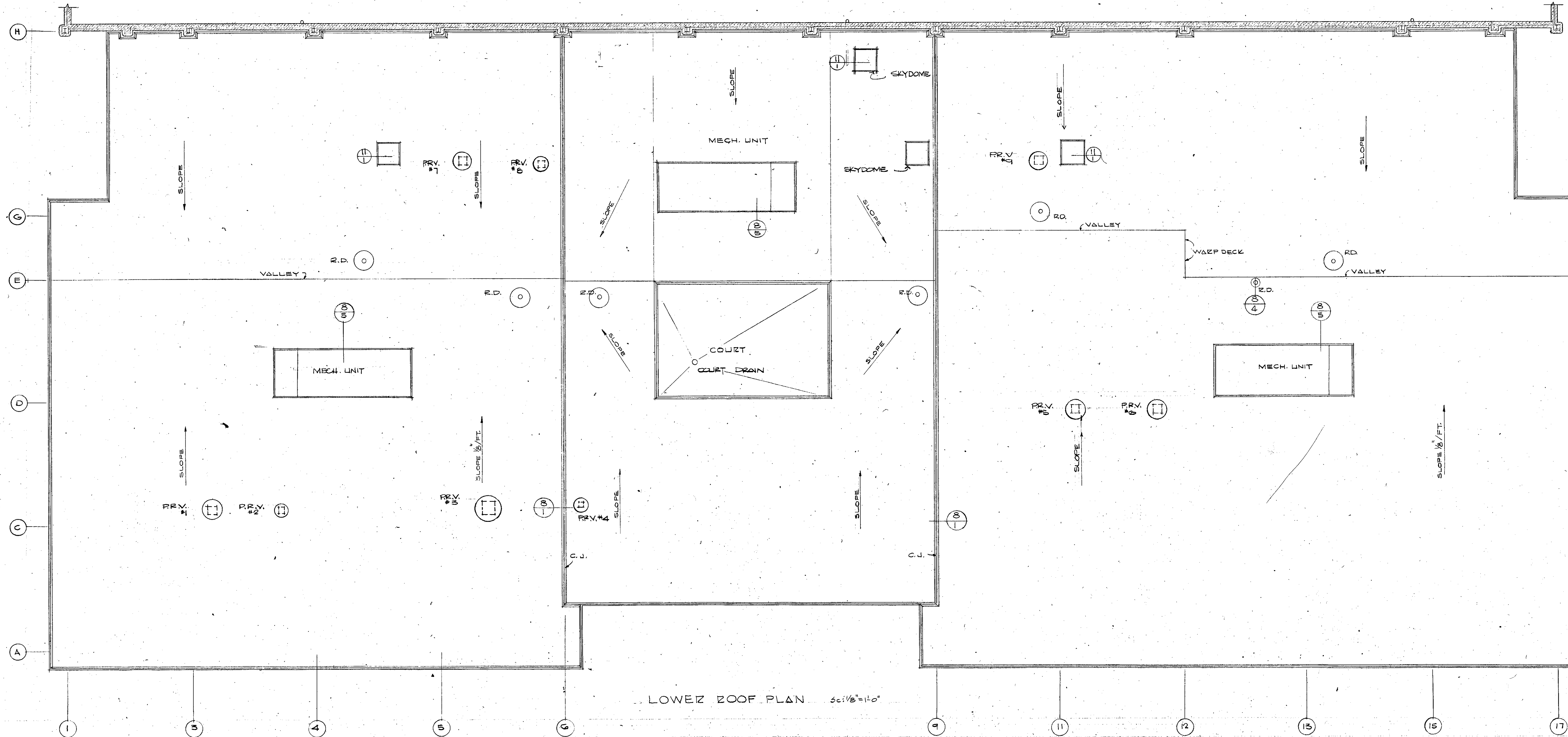


WINDOW DETAILS • ENTRANCE DETAILS		PROJECT 6541
HAROLD SPITZNAGEL AND ASSOCIATES - ARCHITECTS AND ENGINEERS 300 SOUTH SUMMER AVENUE, SOUTHWEST, SOUTHDAKOTA		DATE MAR. 14, 1966
ROBEL AND POPE ARCHITECTS • ASSOCIATE ARCHITECTS		DRAWN CHECKED
		7

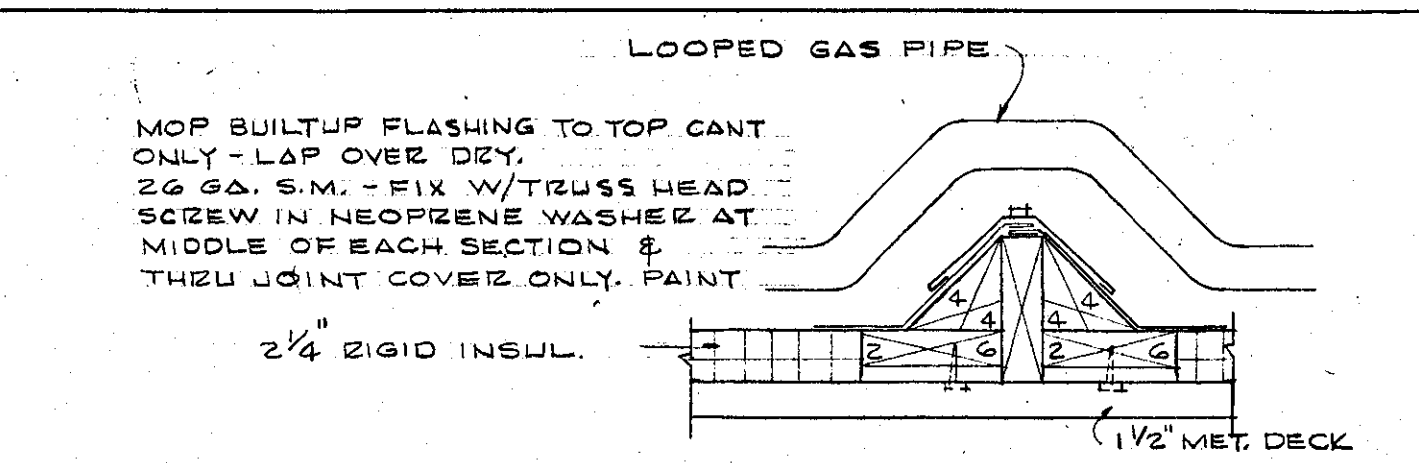




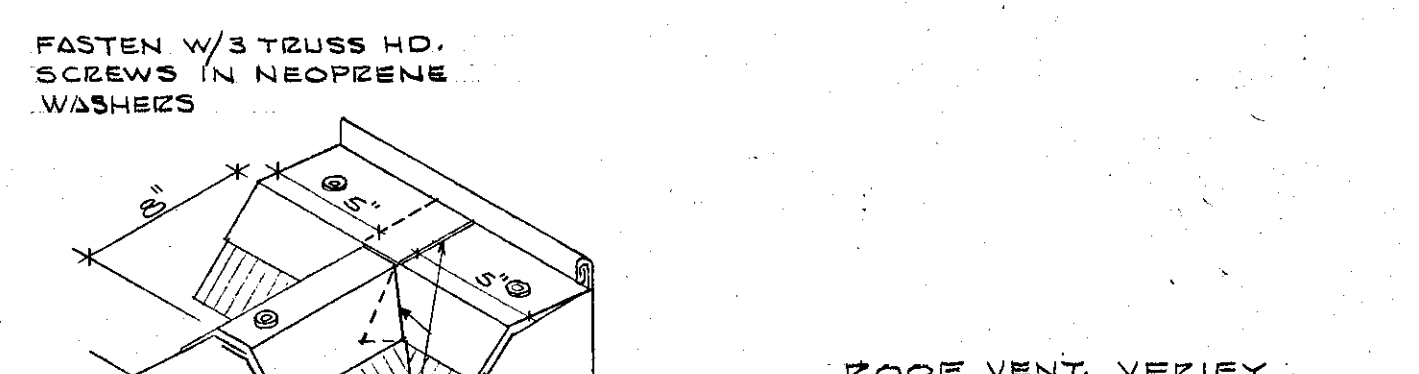
UPPER ROOF PLAN sc: 1/8" = 1'-0"



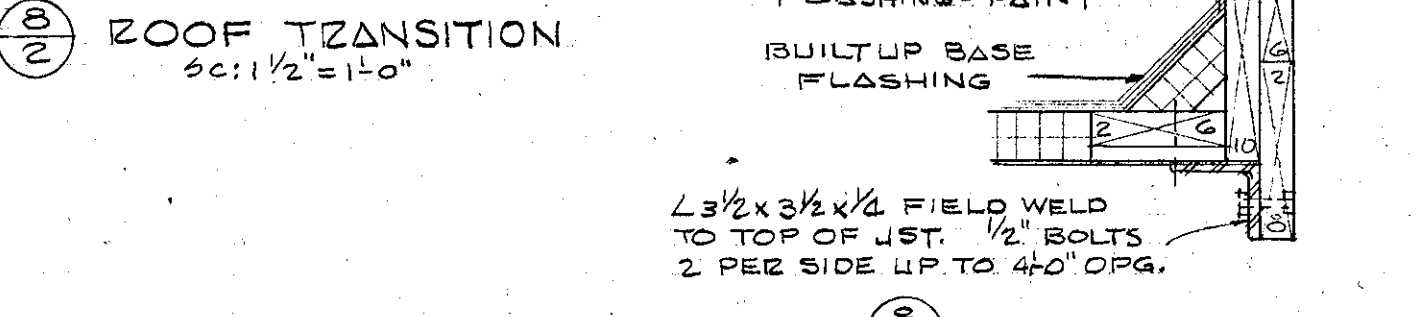
LOWER ROOF PLAN sc: 1/8" = 1'-0"



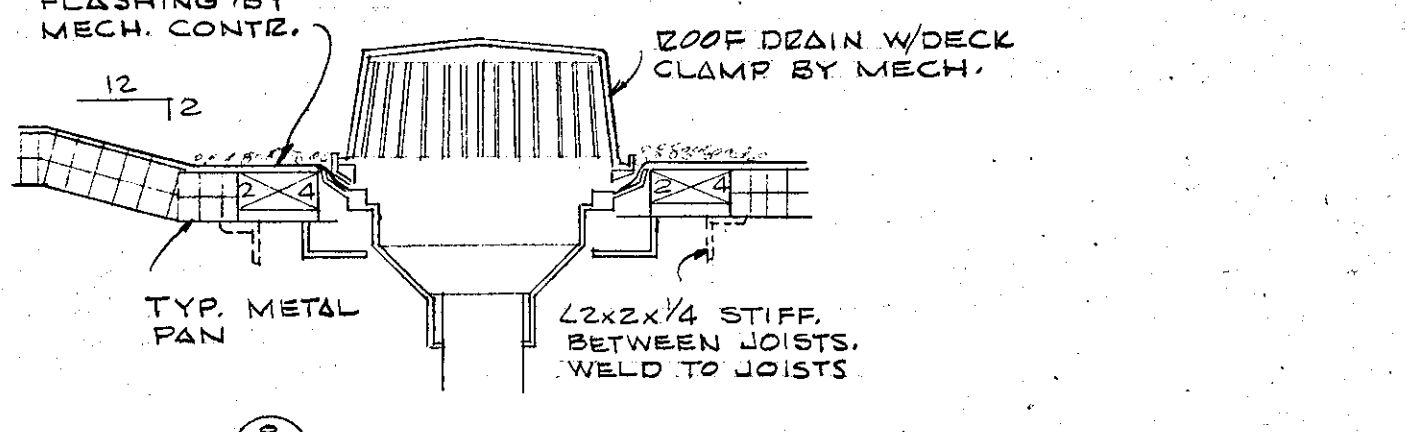
CONTROL JOINT (C.J.) sc: 1/2" = 1'-0"



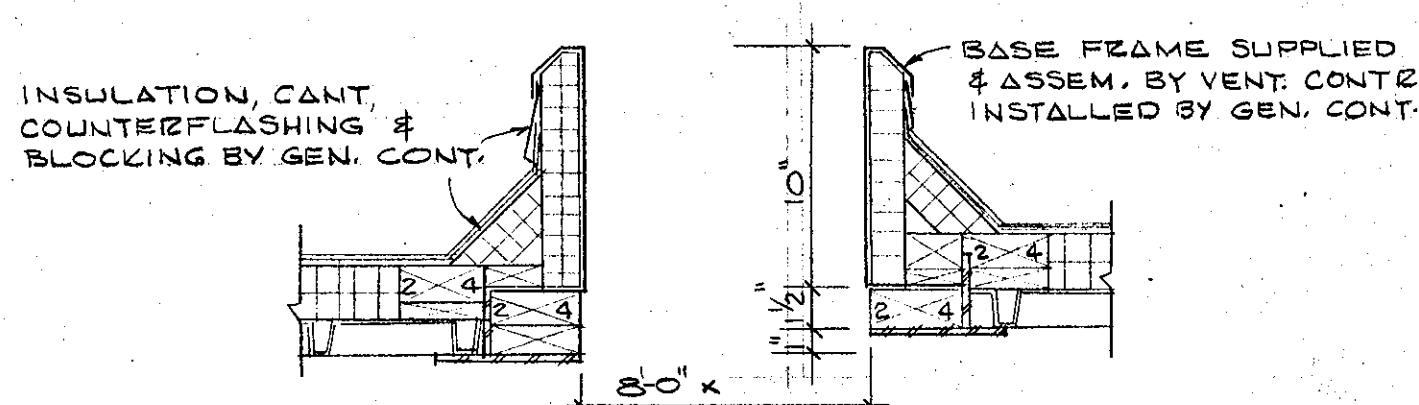
ROOF TRANSITION sc: 1/2" = 1'-0"



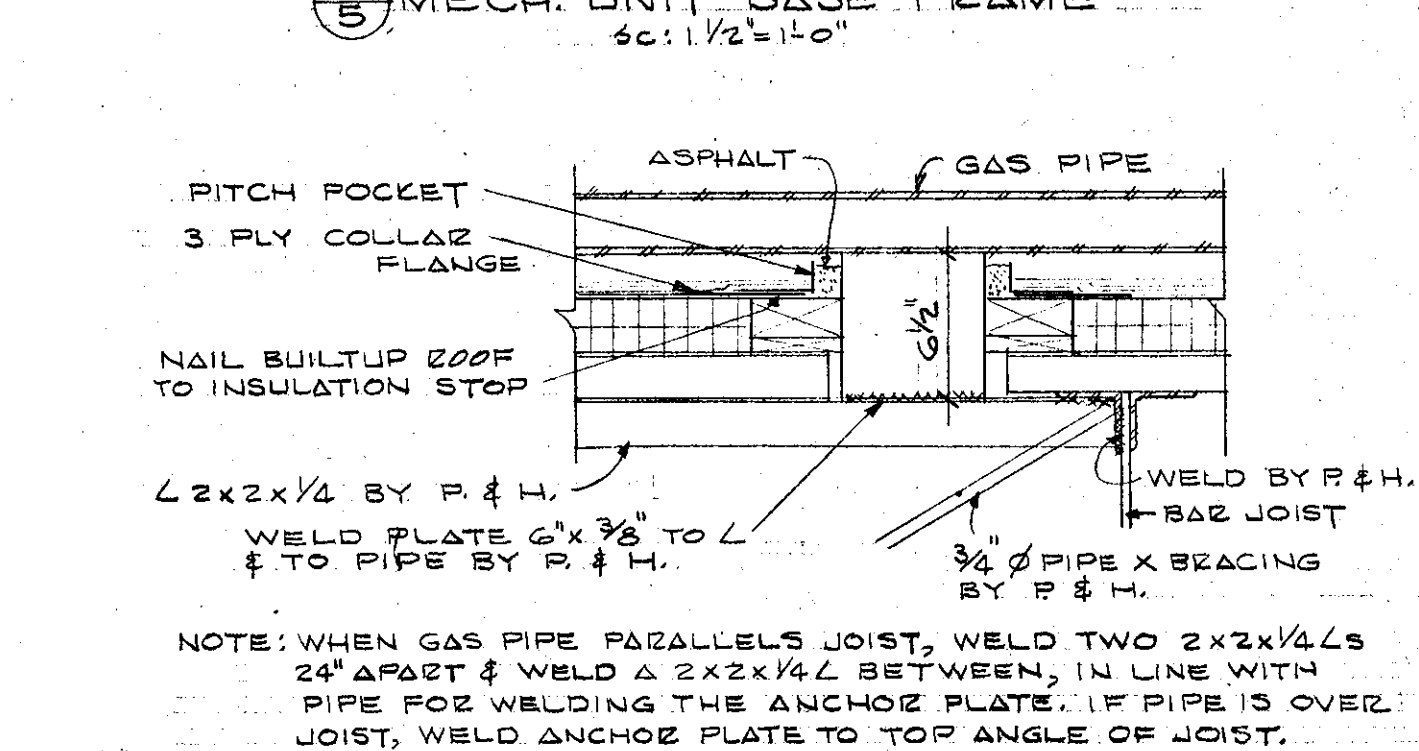
ROOF CURB sc: 1/2" = 1'-0"



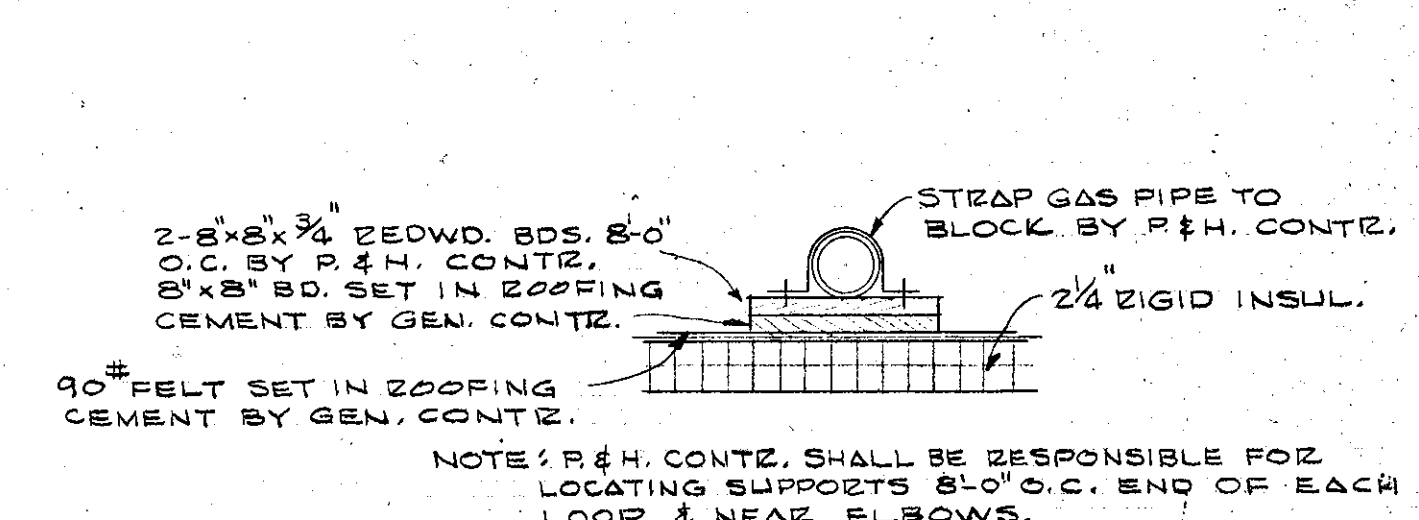
ROOF DRAIN sc: 1/2" = 1'-0"



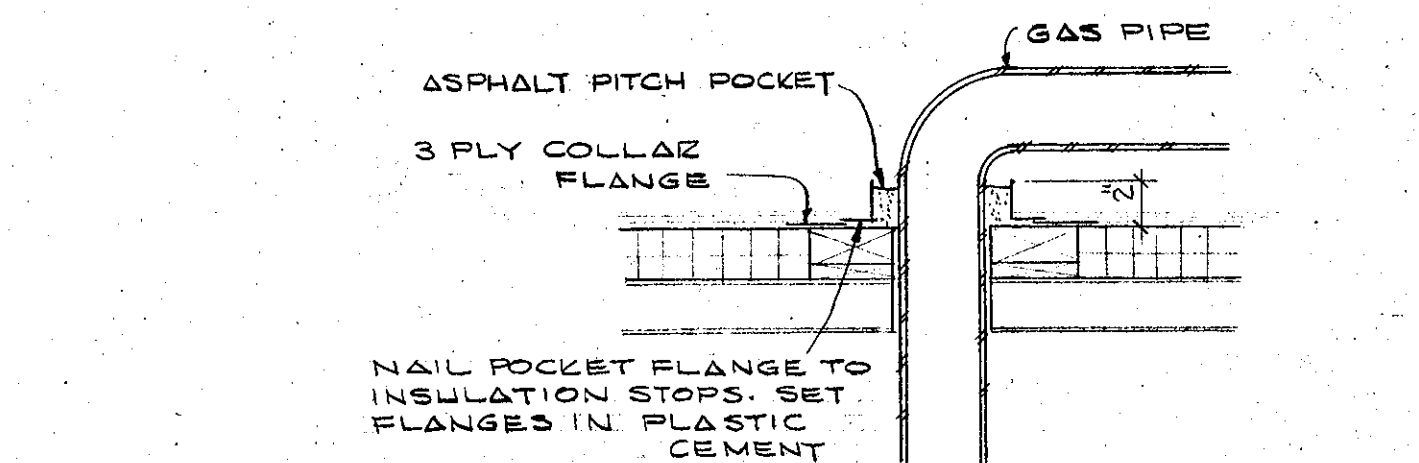
MECH. UNIT BASE FRAME sc: 1/2" = 1'-0"



GAS PIPE ANCHOR sc: 1/2" = 1'-0"



GAS PIPE SUPPORT sc: 1/2" = 1'-0"



GAS PIPE THRU ROOF sc: 1/2" = 1'-0"

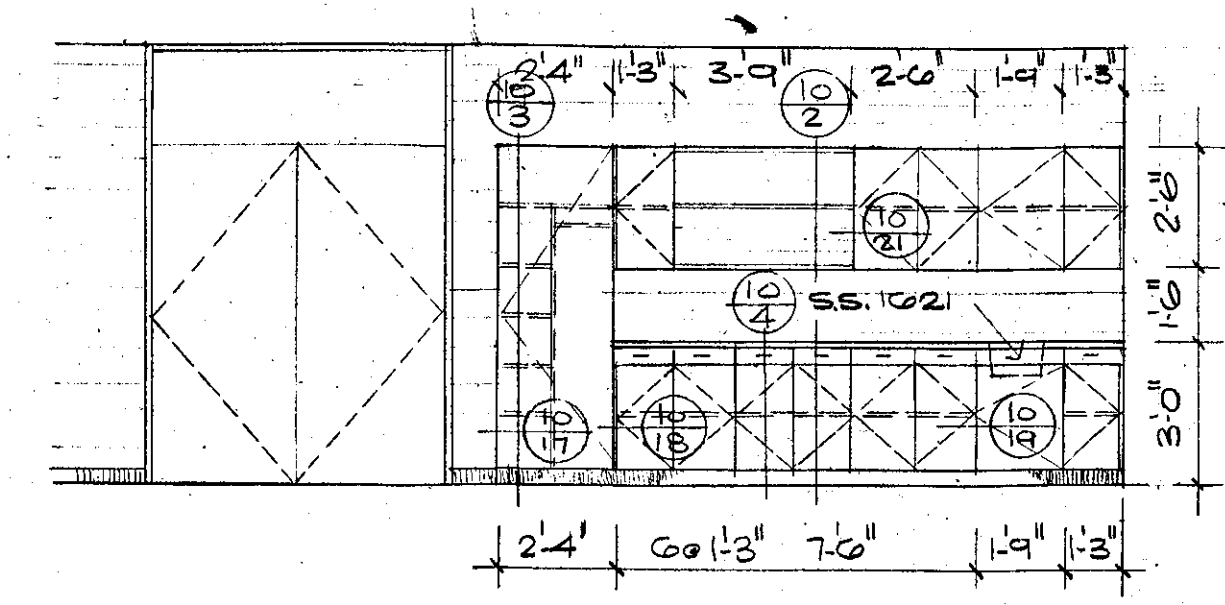
GENERAL NOTE: PROVIDE TREATED WOOD INSULATION STOP AT PERIMETER OF ROOF & AT PERIMETER OF ALL OPENINGS THRU ROOF. BOLT TO DECK WITH 1/2\"/>

UPPER & LOWER ROOF PLANS - ROOF DETAILS		PROJECT 6541
		DATE MAR. 14, 1966
HAROLD SPITZNAGEL AND ASSOCIATES - ARCHITECTS AND ENGINEERS 1800 SOUTH SUMMIT AVENUE - SIOUX FALLS, SOUTH DAKOTA		DRAWN
ROBEL AND POPE ARCHITECTS - ASSOCIATE ARCHITECTS		CHECKED

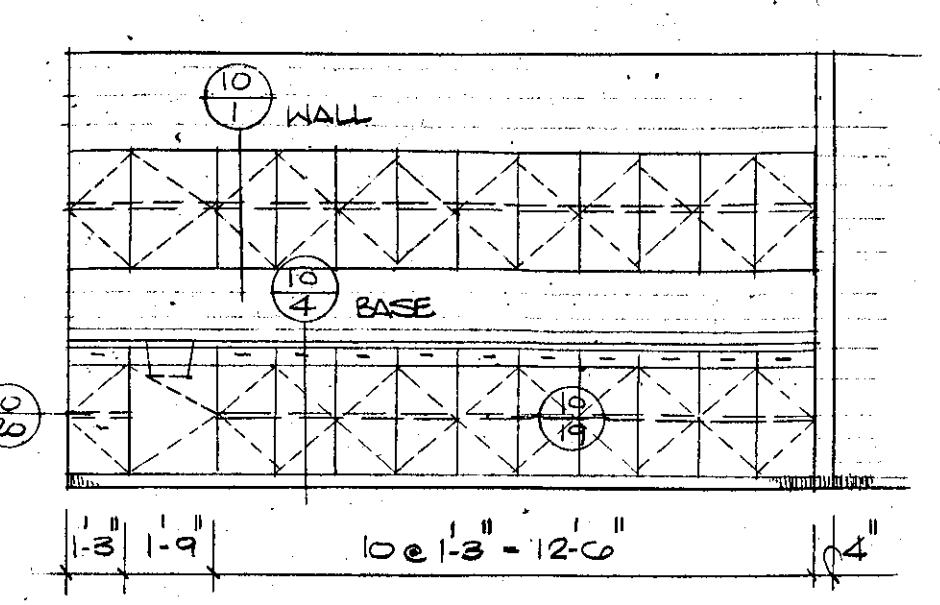




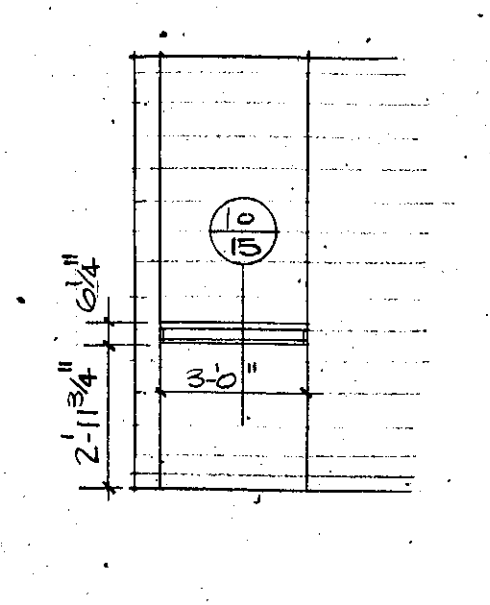




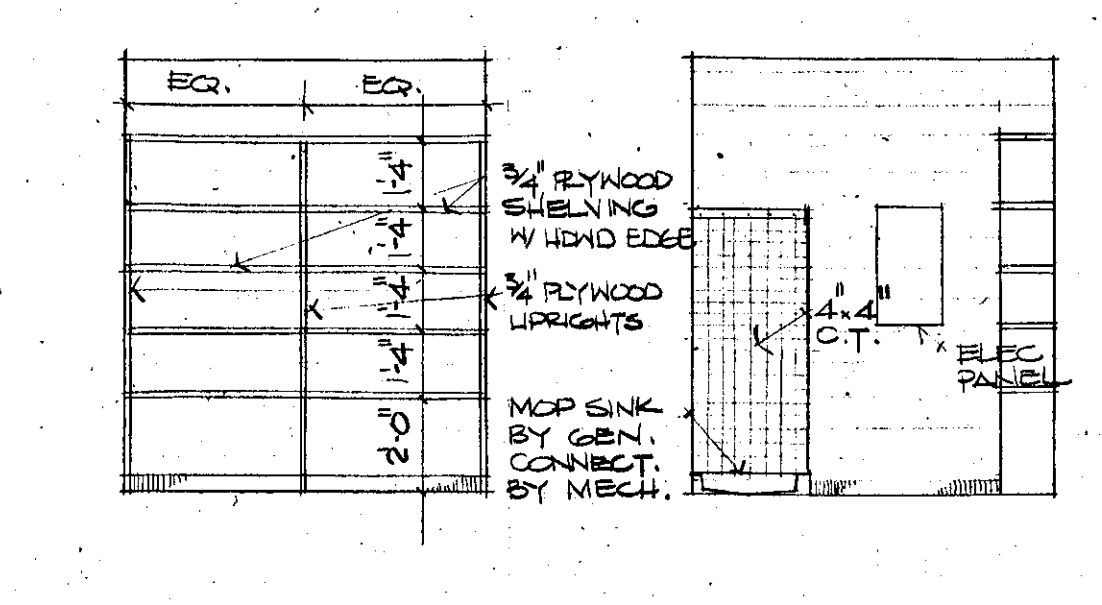
10 PART. NORTH ELEV. 105



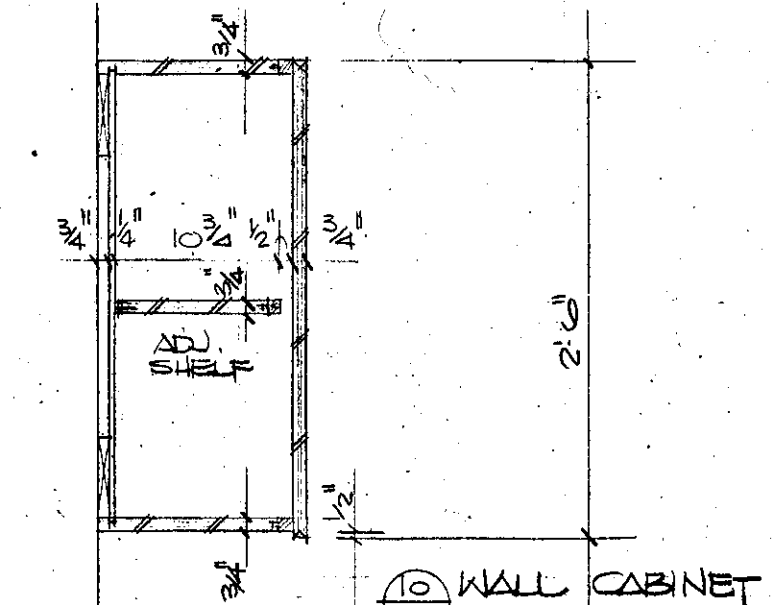
10 PART. SOUTH ELEV. 101



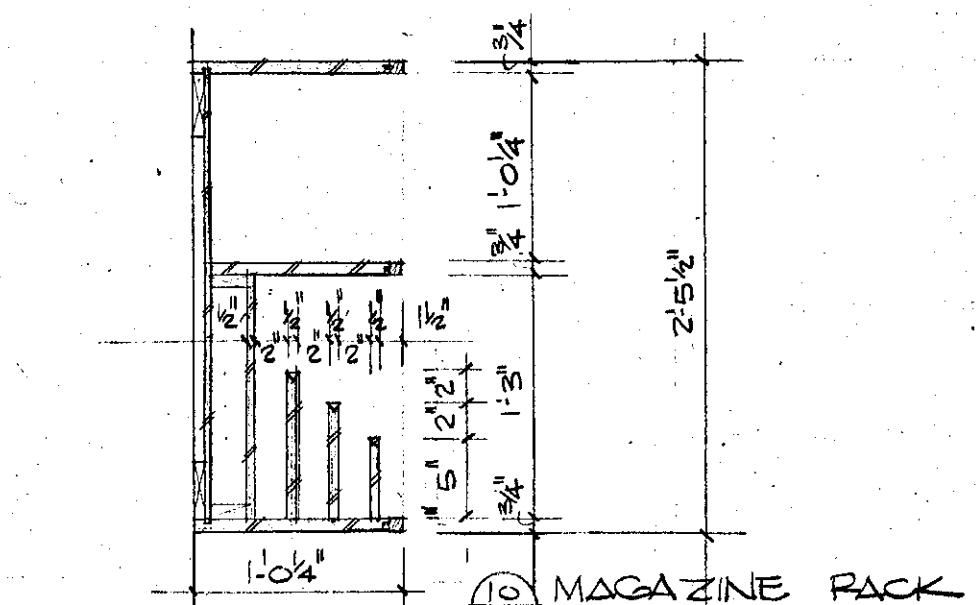
10 PINE BOOTH



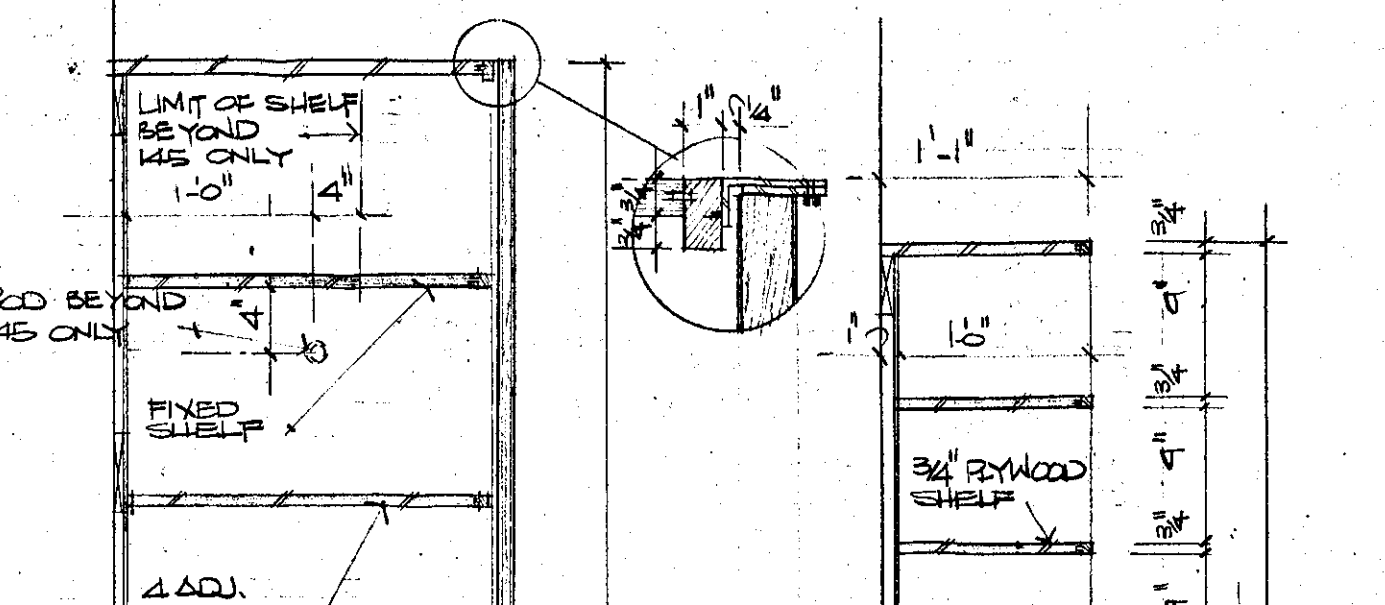
10 EAST ELEV. 112 10 NORTH ELEV. 112



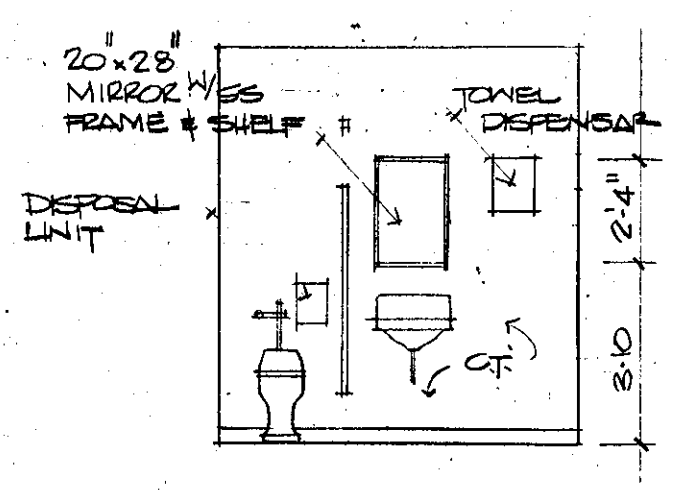
10 WALL CABINET



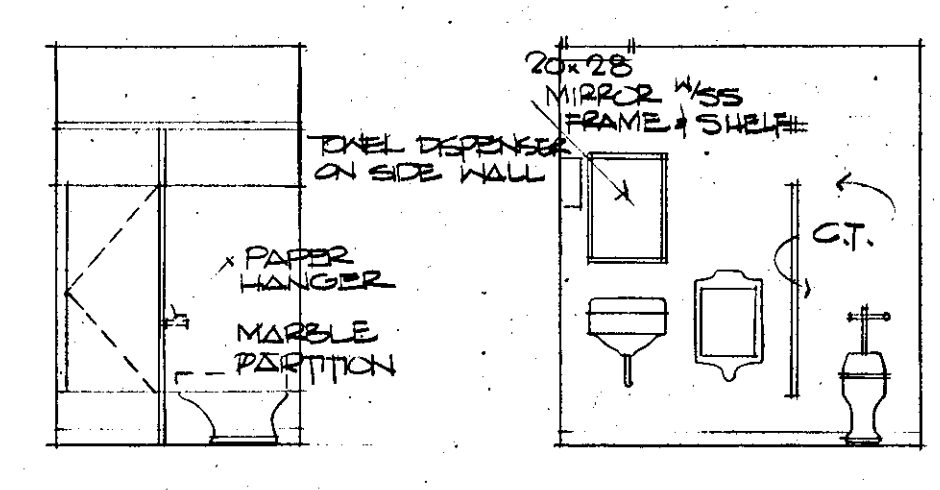
10 MAGAZINE RACK



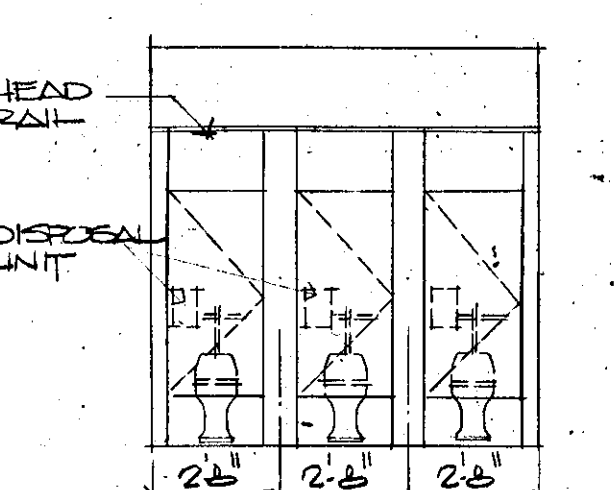
10 TALL CABINET



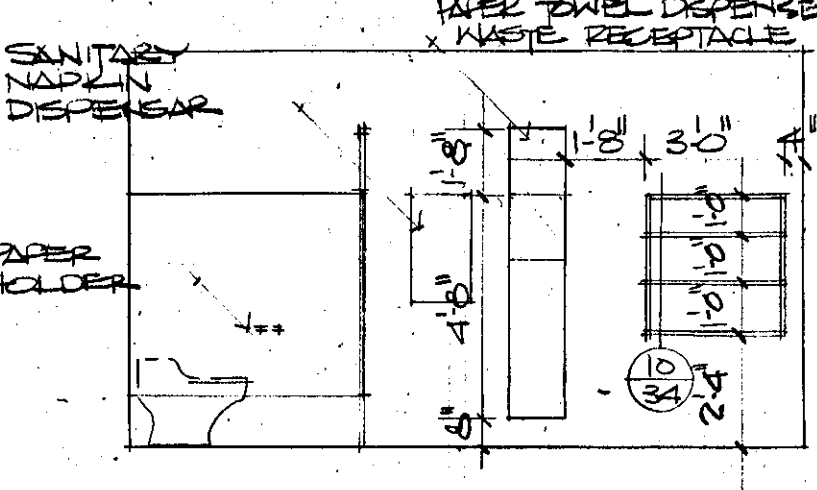
10 EAST ELEV. 114



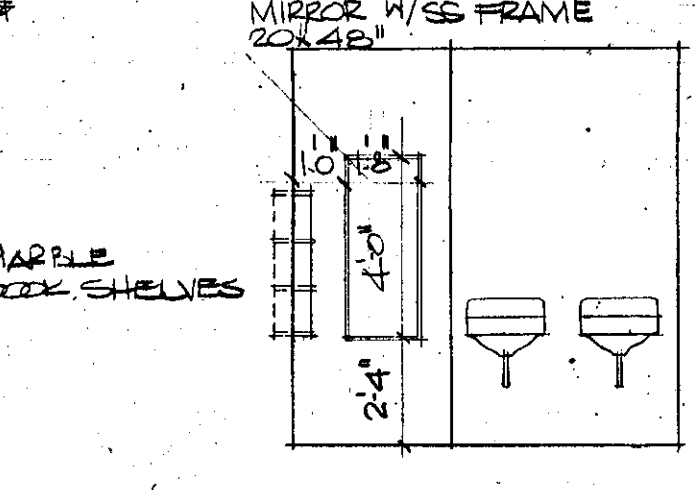
10 NORTH ELEV. 114 10 REV. NORTH ELEV. 113



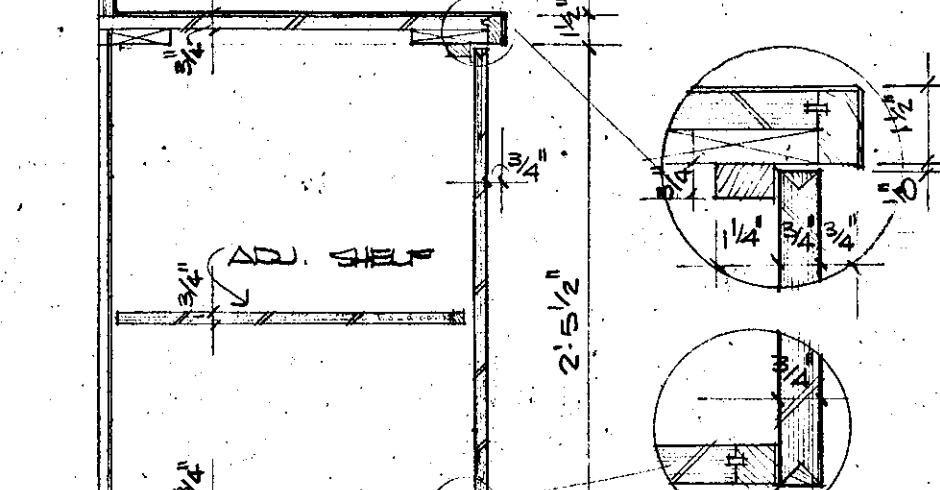
10 NORTH ELEV. 130



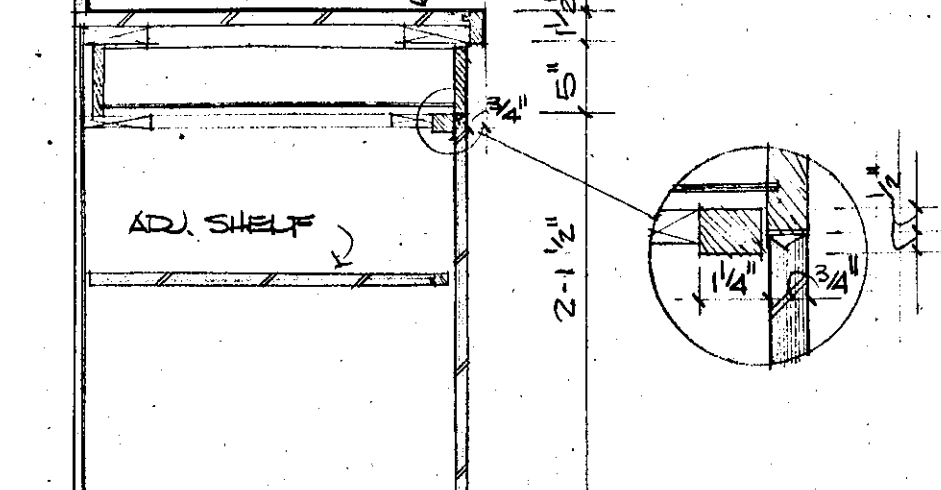
10 WEST ELEV. 130



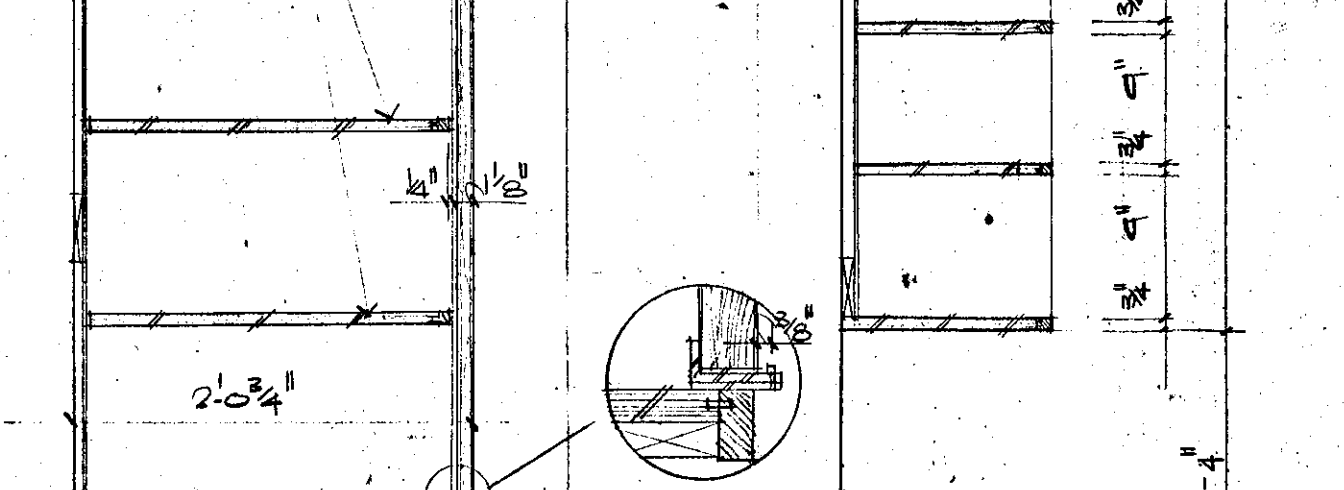
10 SOUTH ELEV. 130



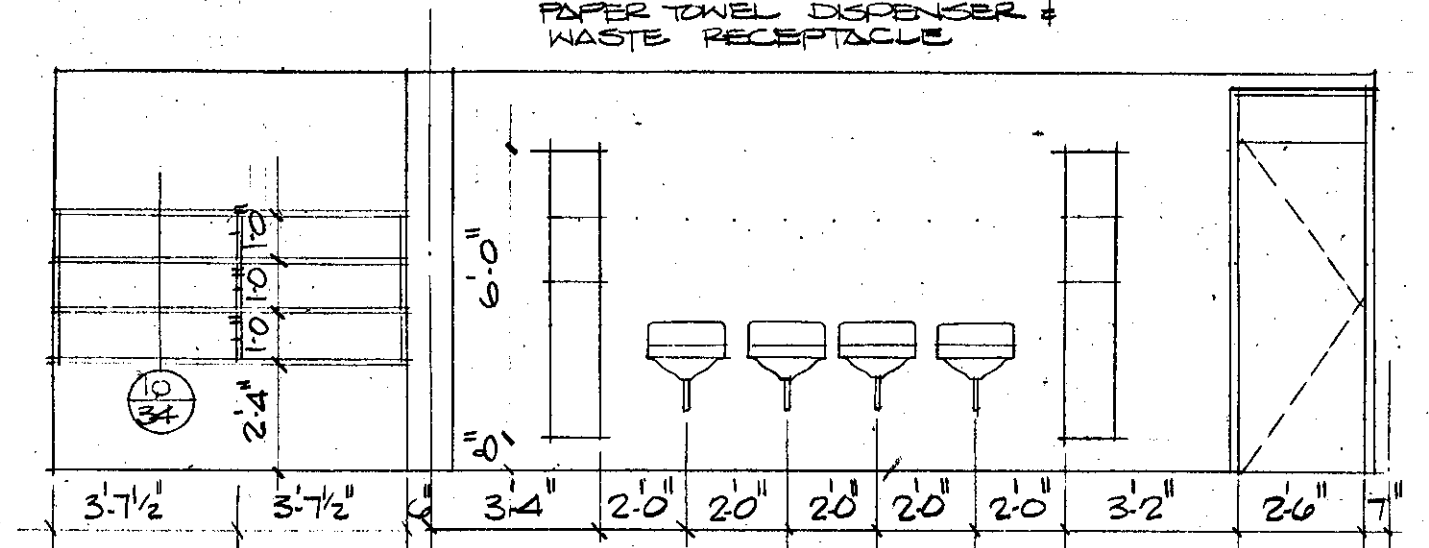
10 BASE CABINET & WALL CABINET



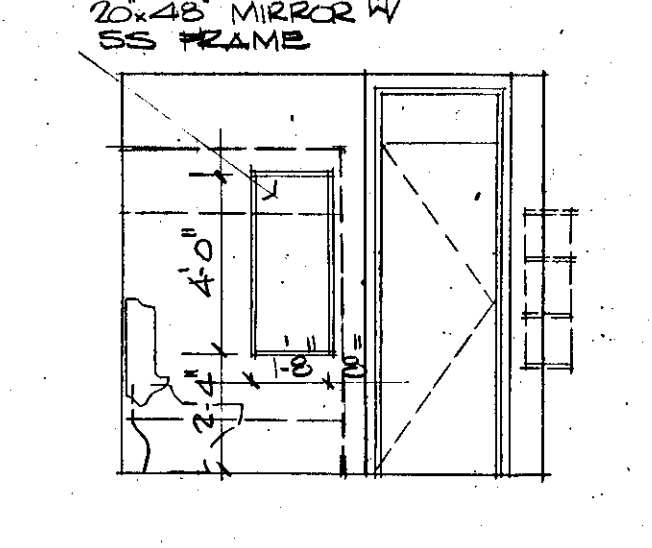
10 BASE CABINET & MAG. RACK



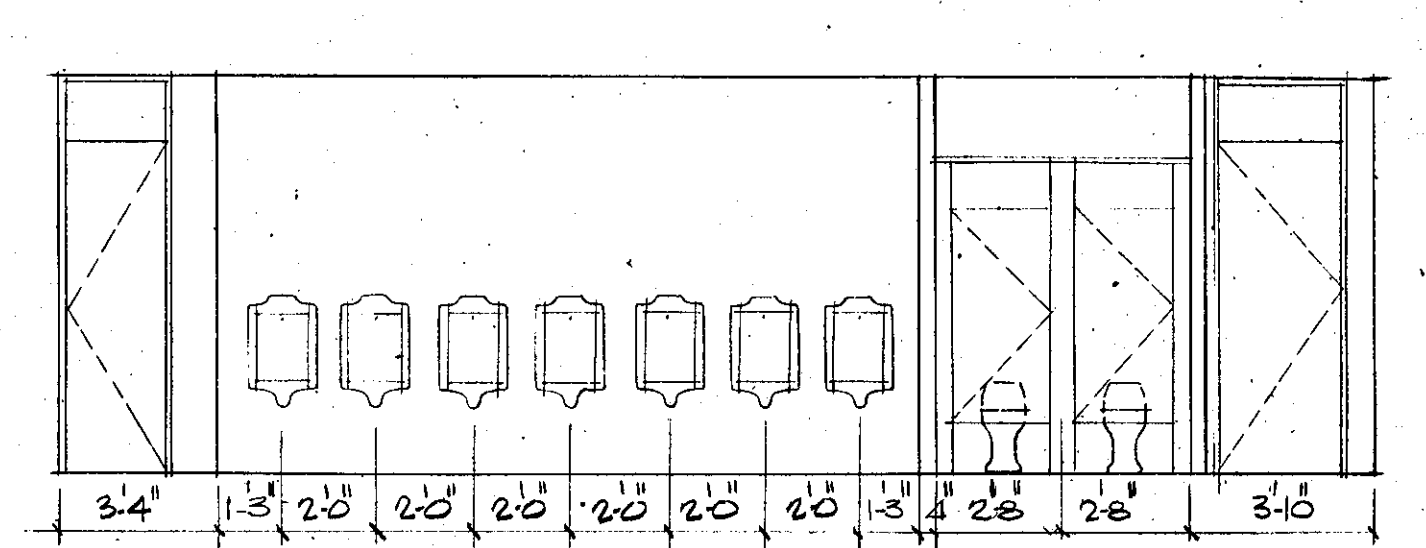
10 BOOK SHELVES



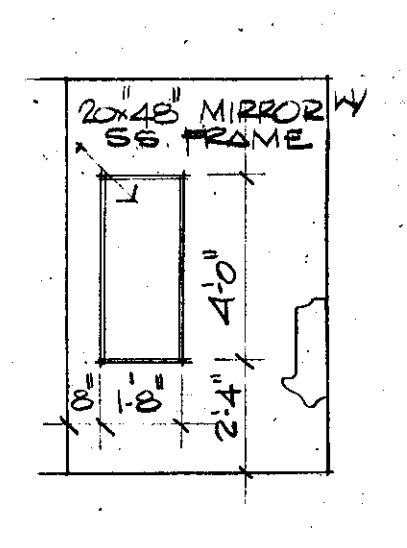
10 EAST ELEV. 140



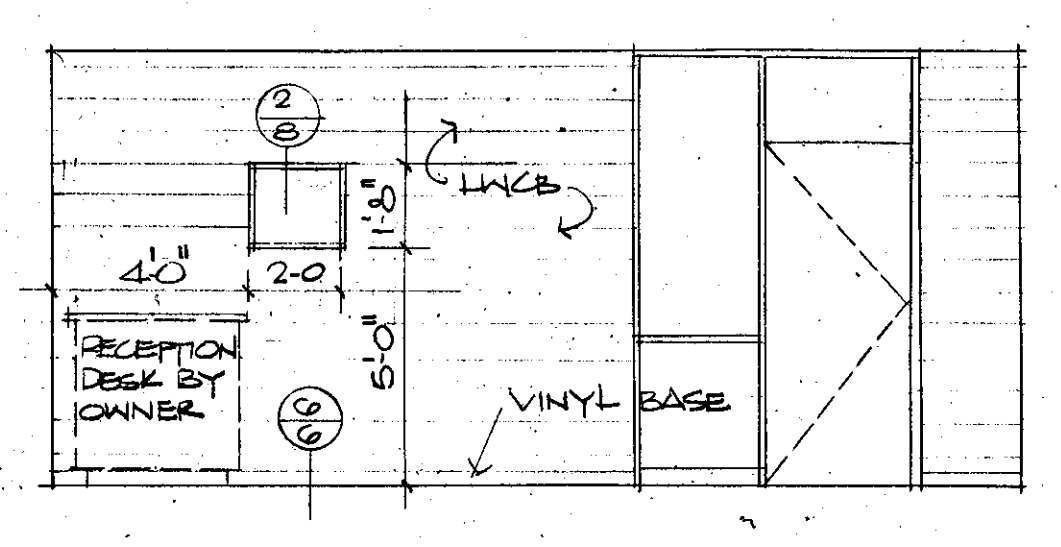
10 NORTH ELEV. 140



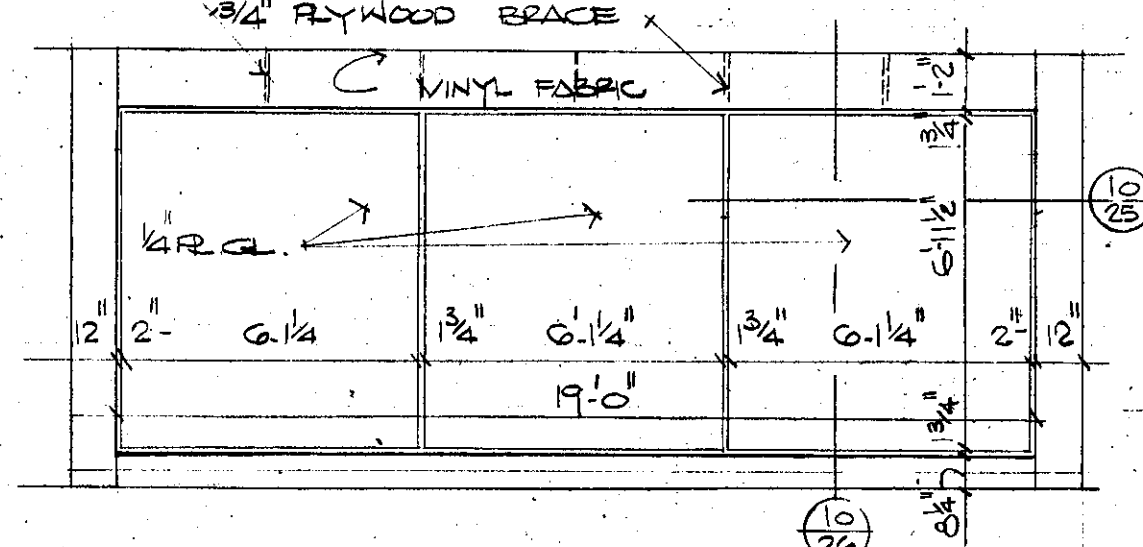
10 WEST ELEV. 140



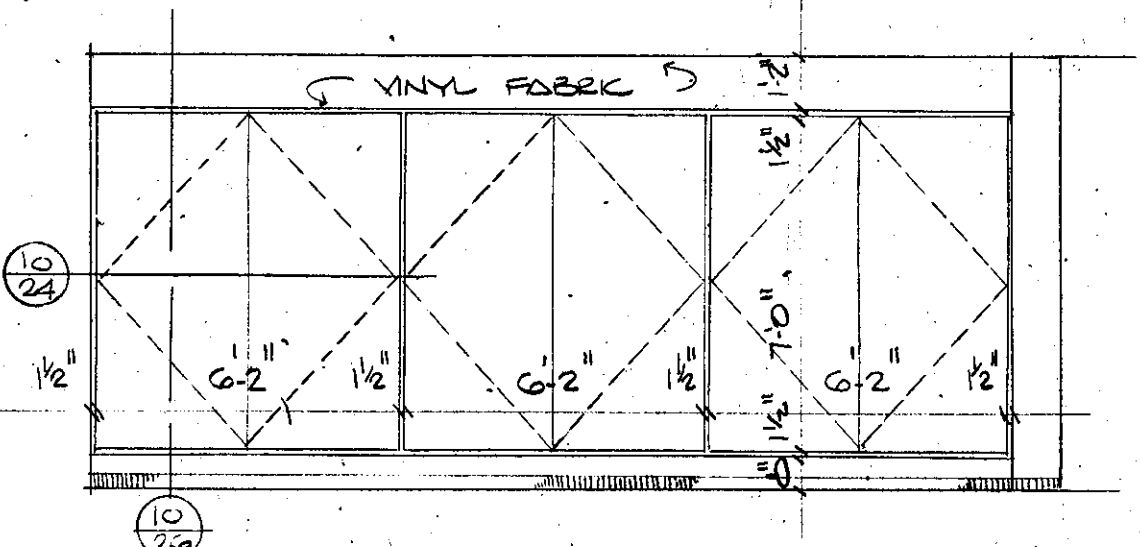
10 PART. SO. ELEV. 140



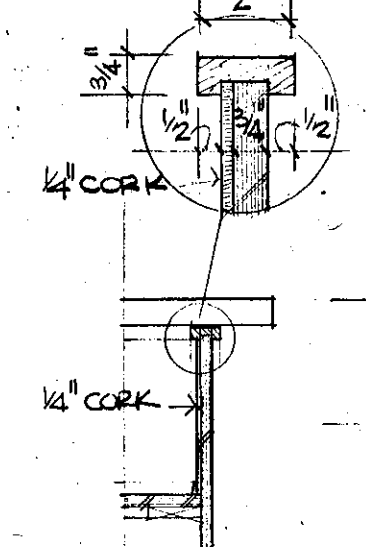
10 NORTH ELEV. 115



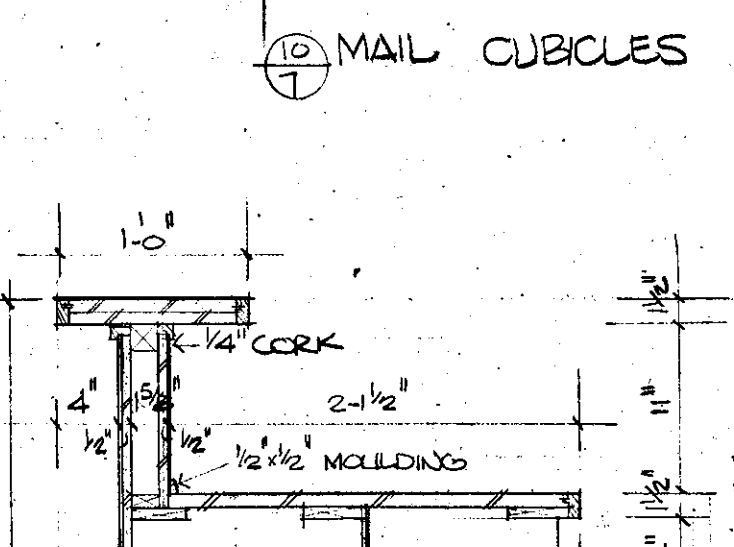
10 DISPLAY CASE



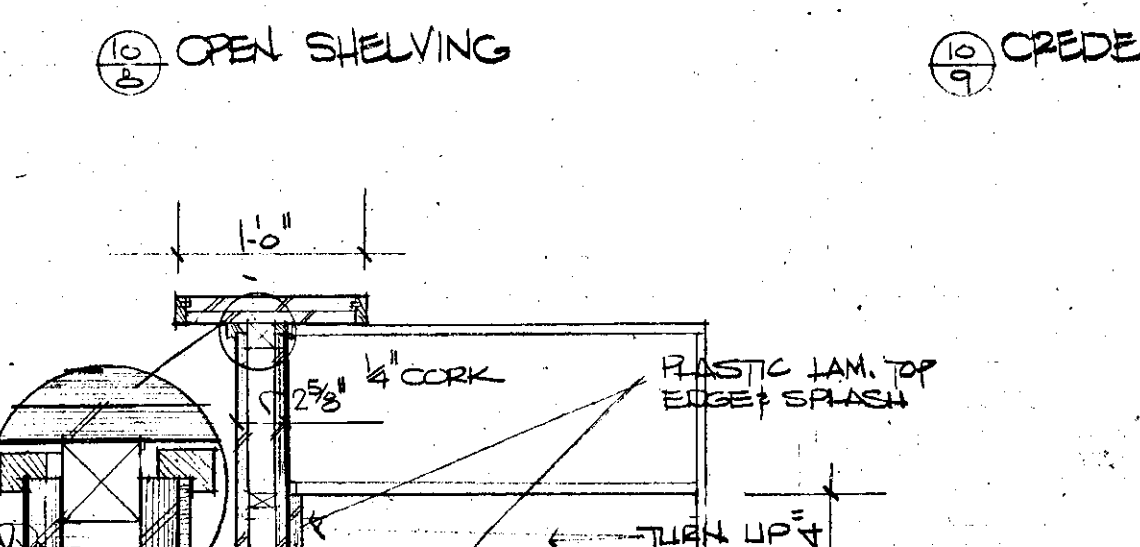
10 NORTH ELEV. 150



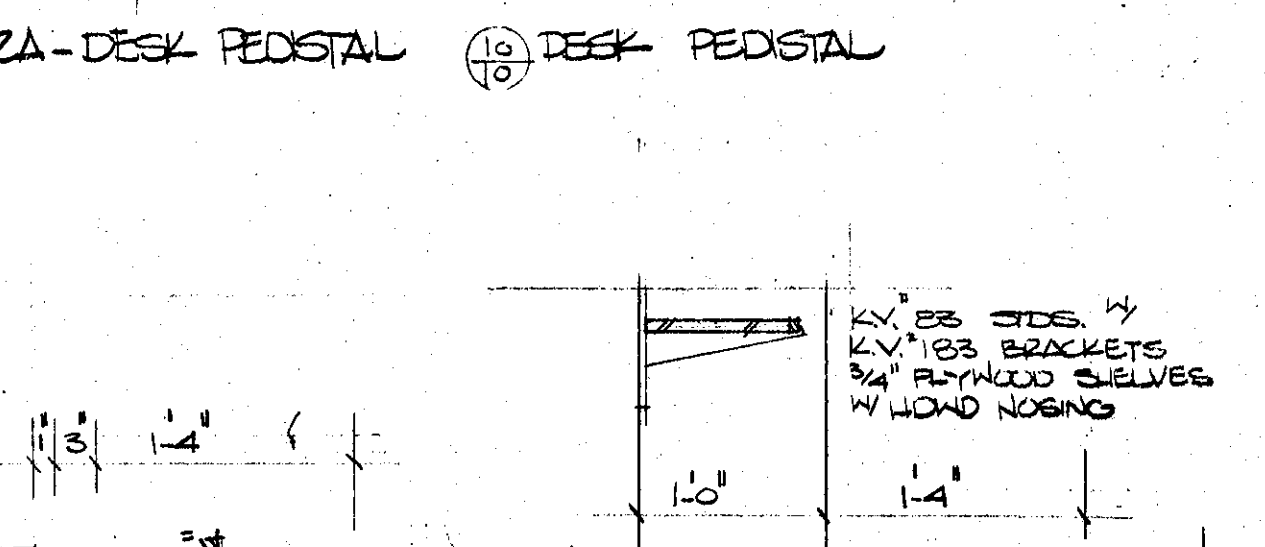
10 COUNTER EDGE



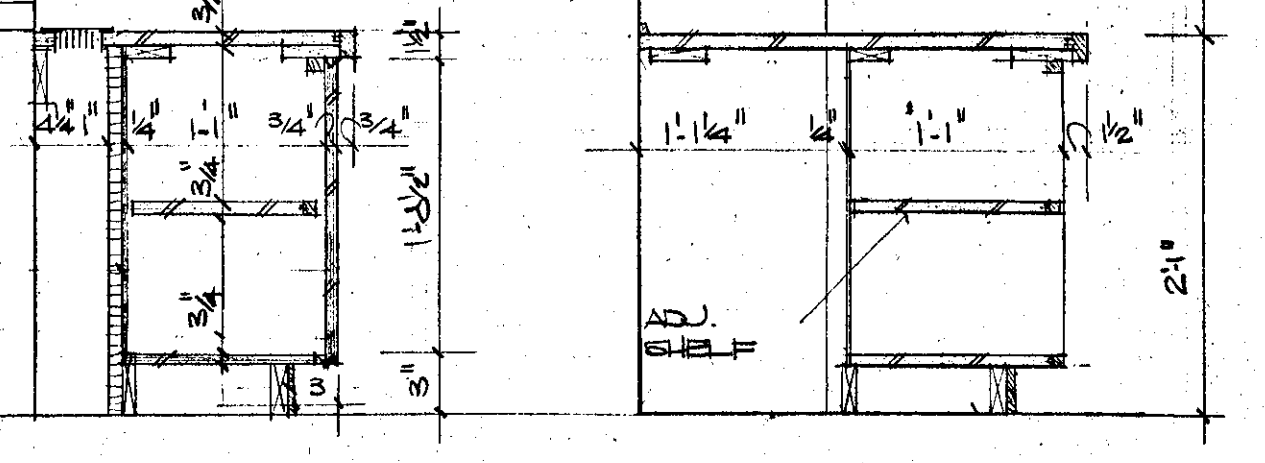
10 COUNTER-FORM SLOTS



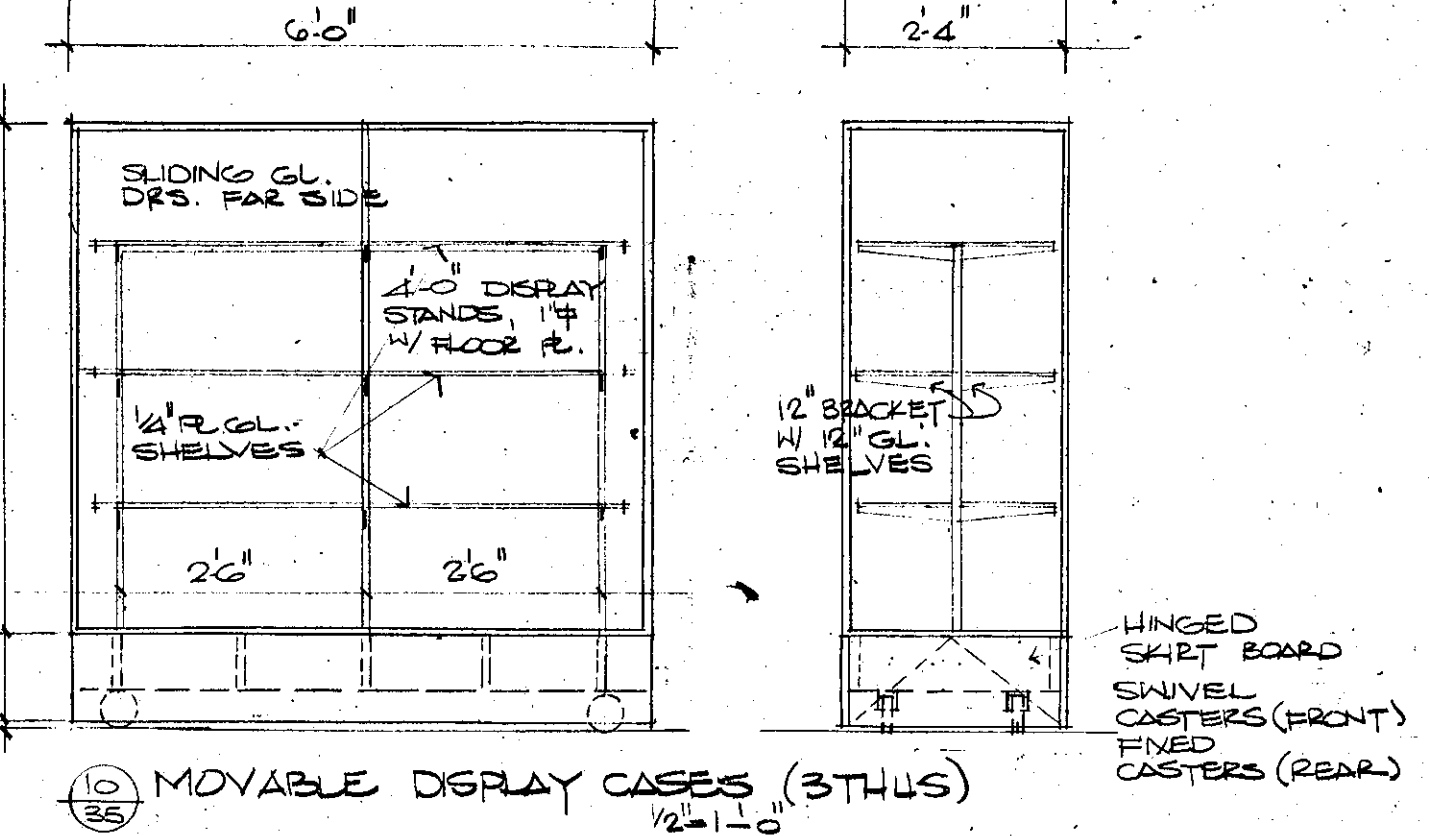
10 COUNTER-TYPING RECESS



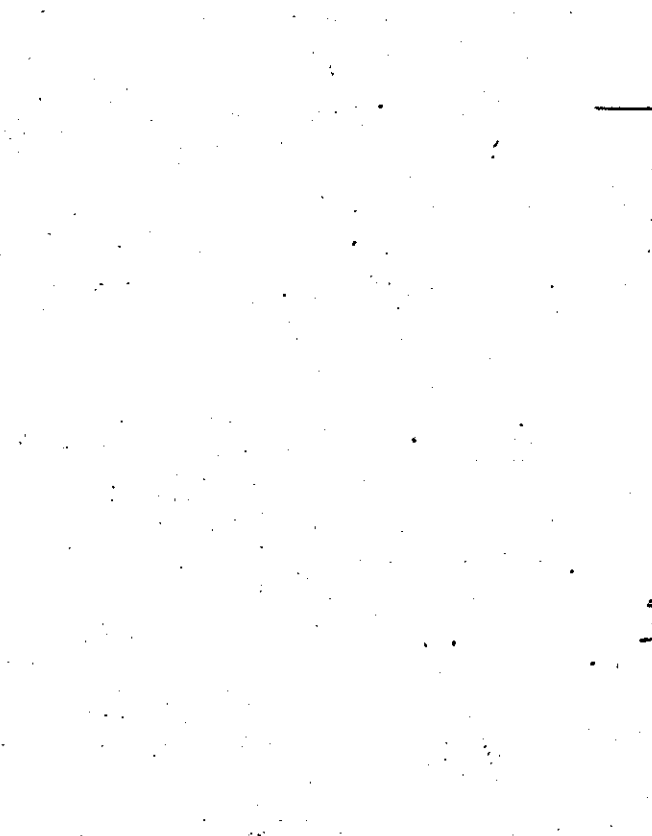
10 CREDENZA @ WINDOW



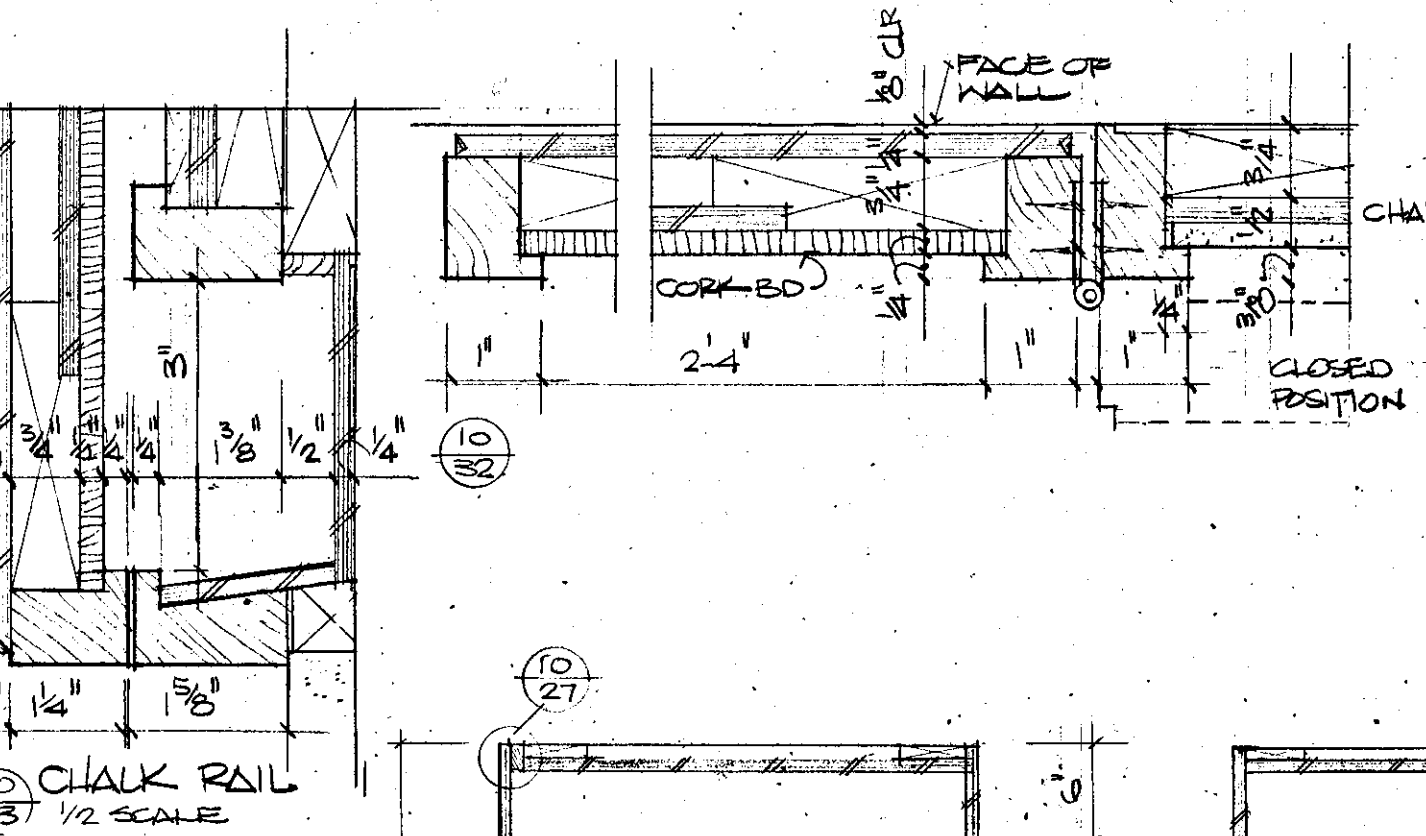
10 CREDENZA @ RECESS



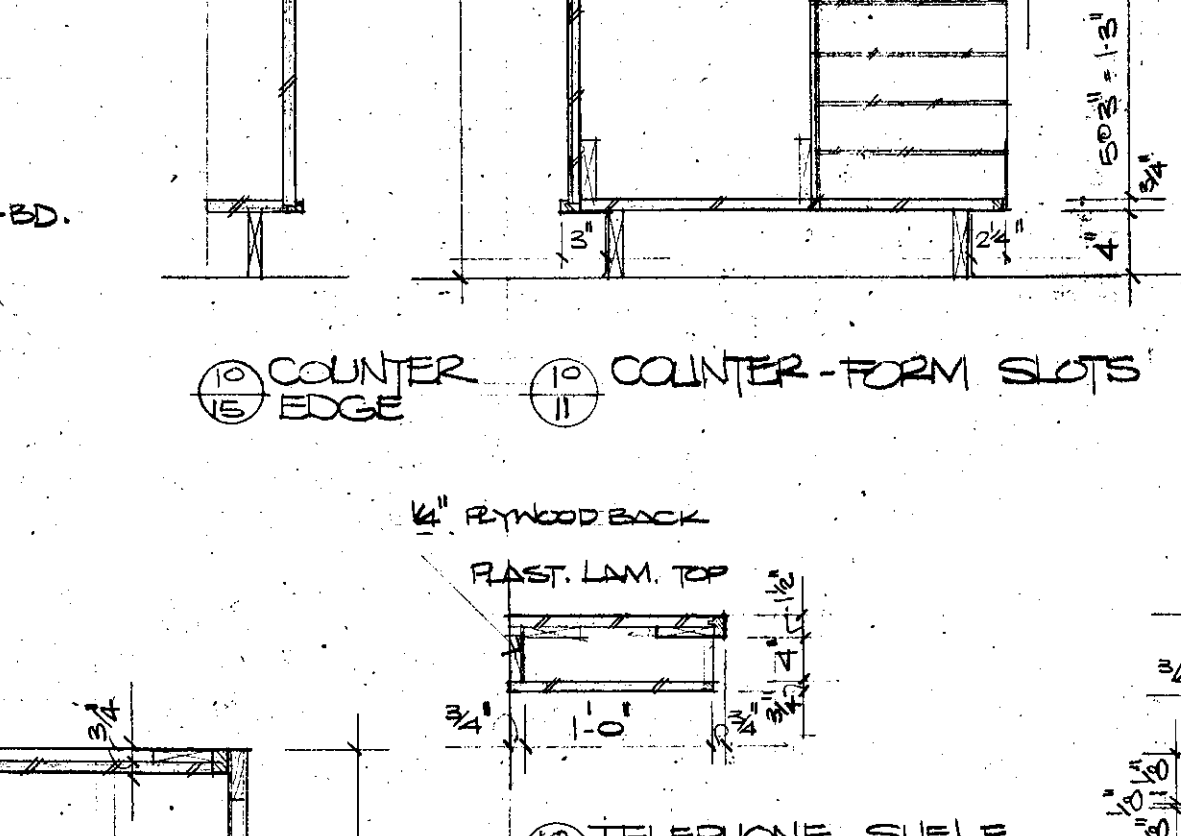
10 MOVABLE DISPLAY CASES (3THUS) 1/2-1-0"



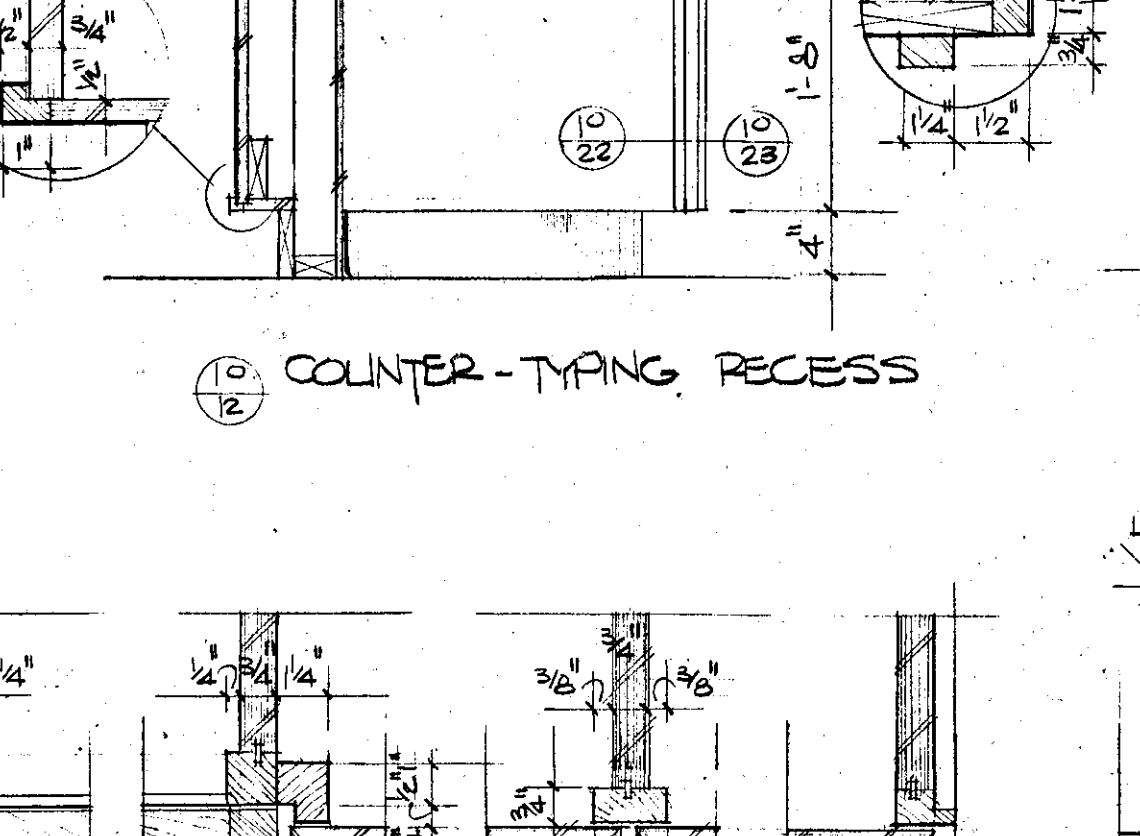
10 CHALK RAIL 1/2 SCALE



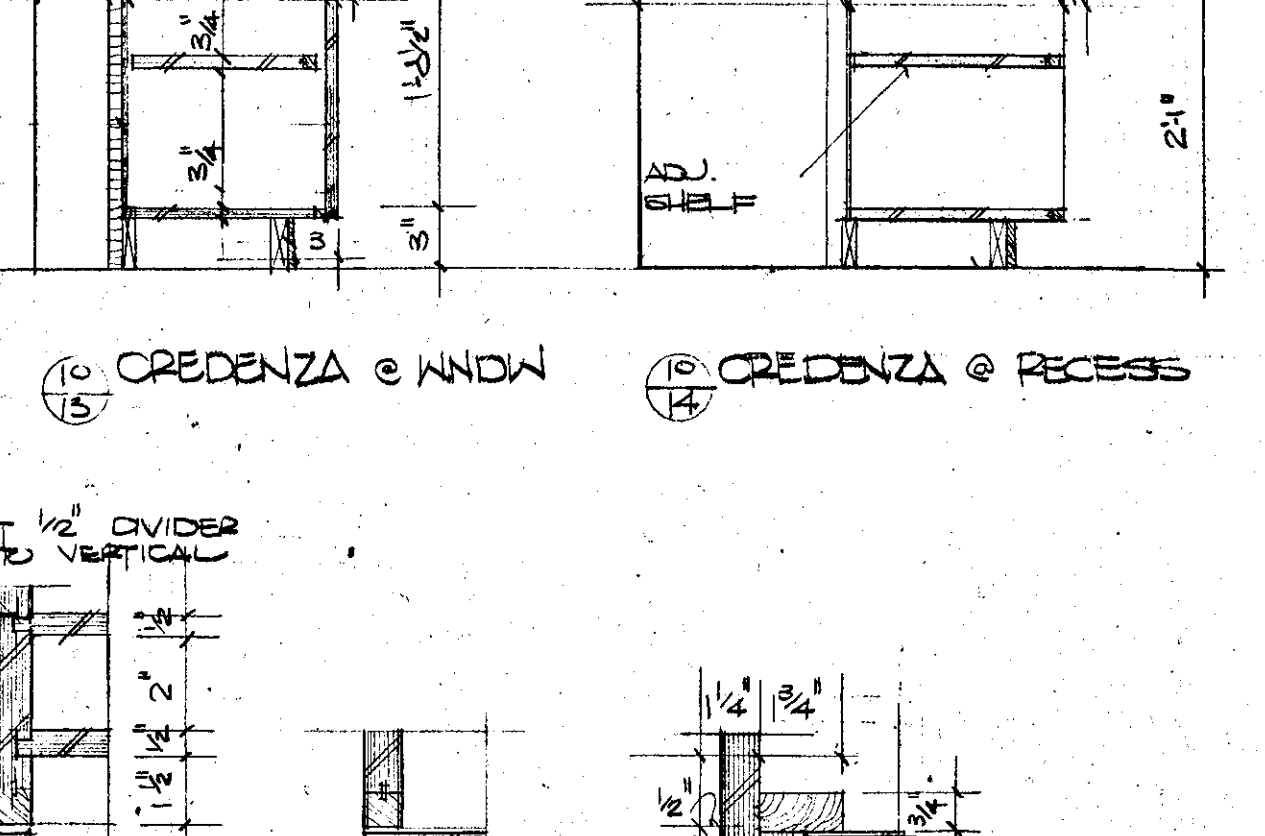
10 DISPLAY CASE - 150 1-1-0"



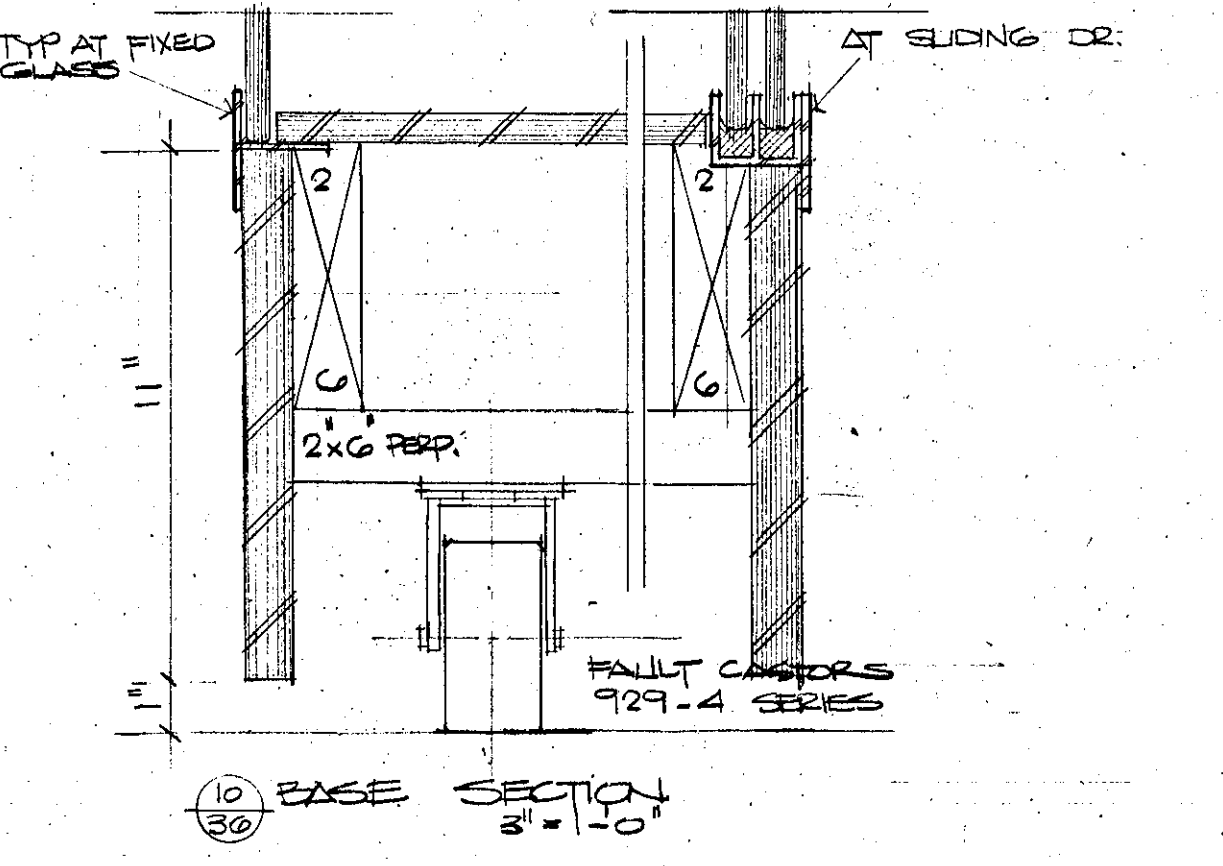
10 TELEPHONE SHELF 1-1-0"



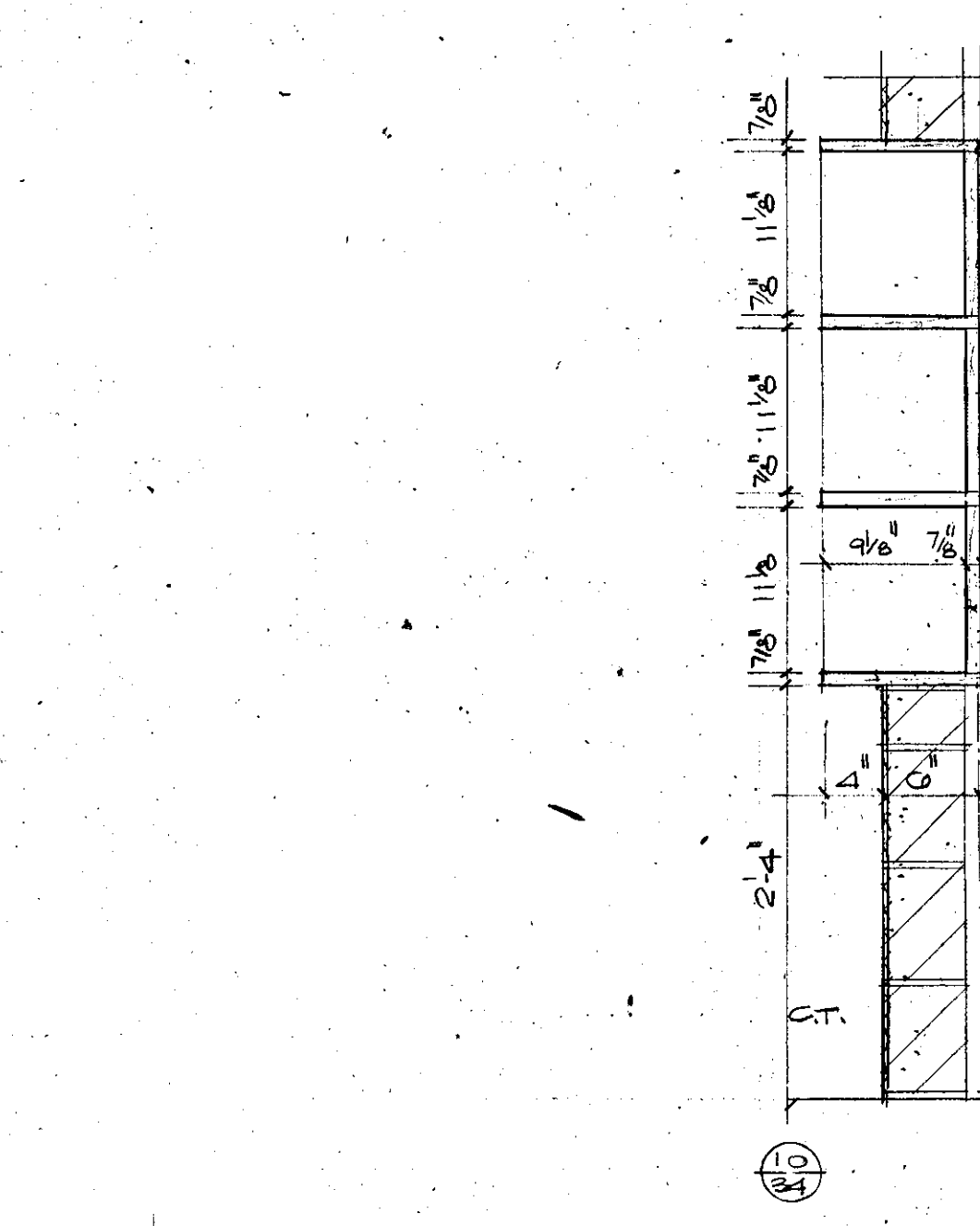
10 DISPLAY CASE SECTION 1-1-0"



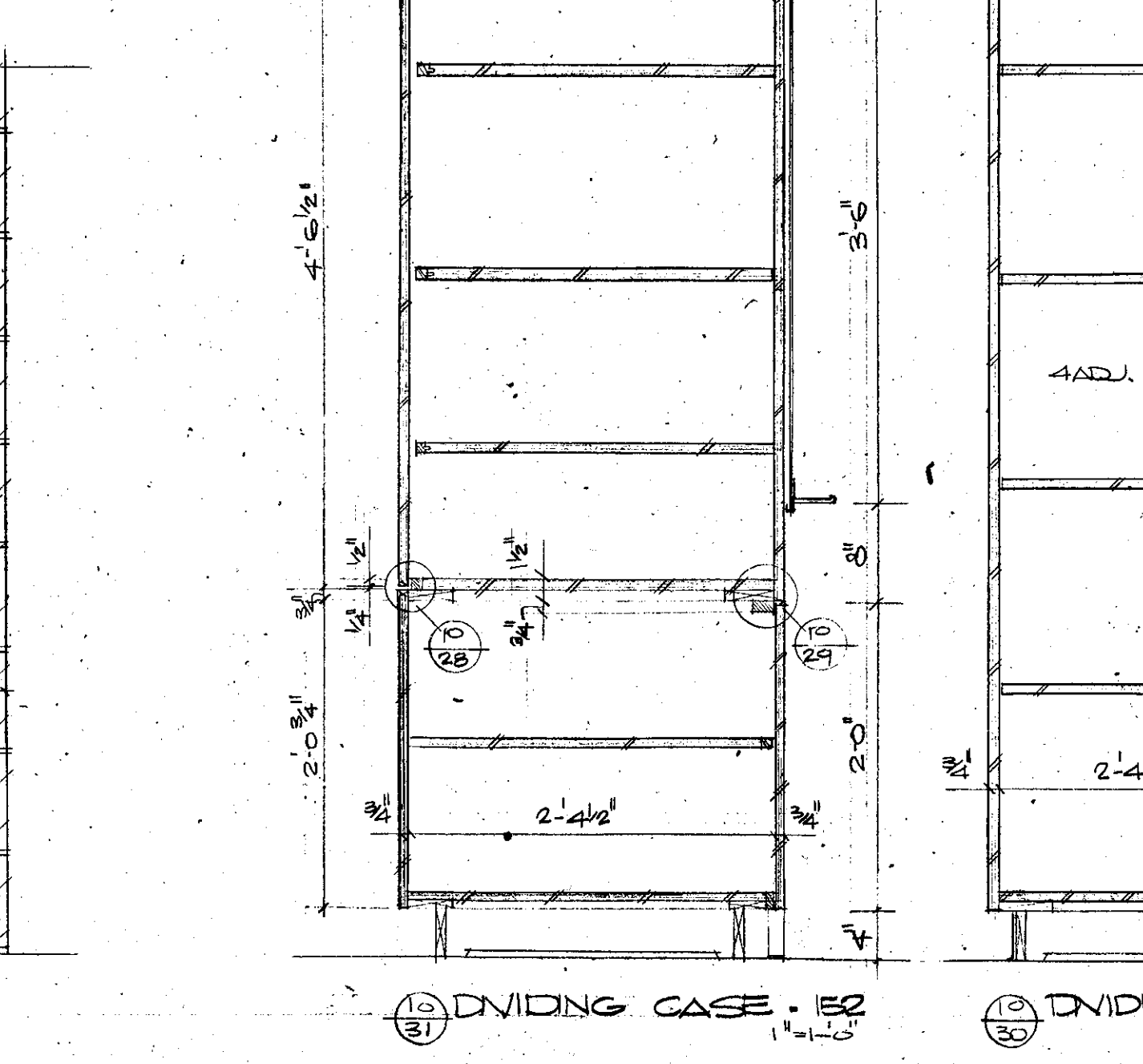
10 WINDOW JAMB 5-1-0"



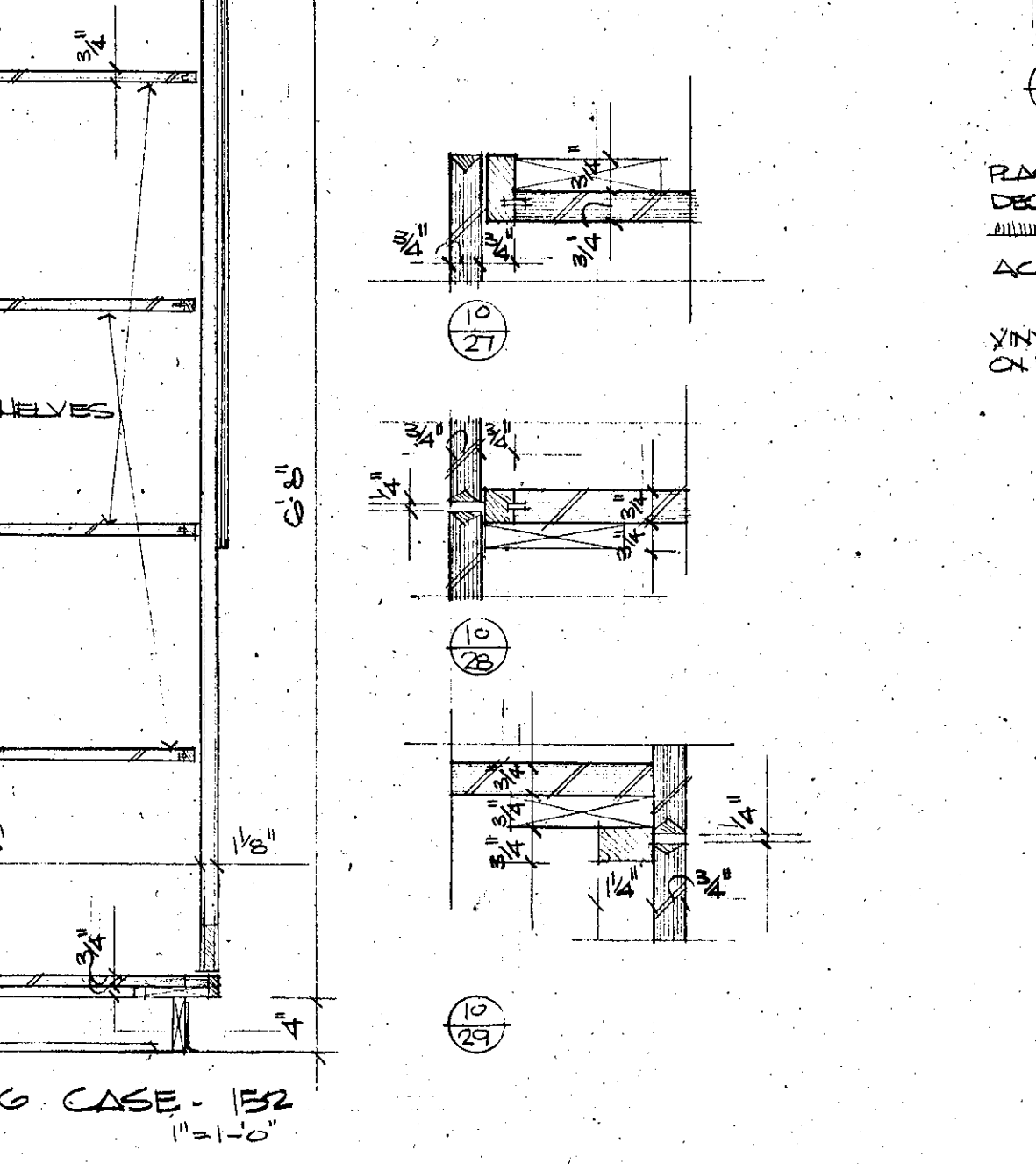
10 BASE SECTION 5-1-0"



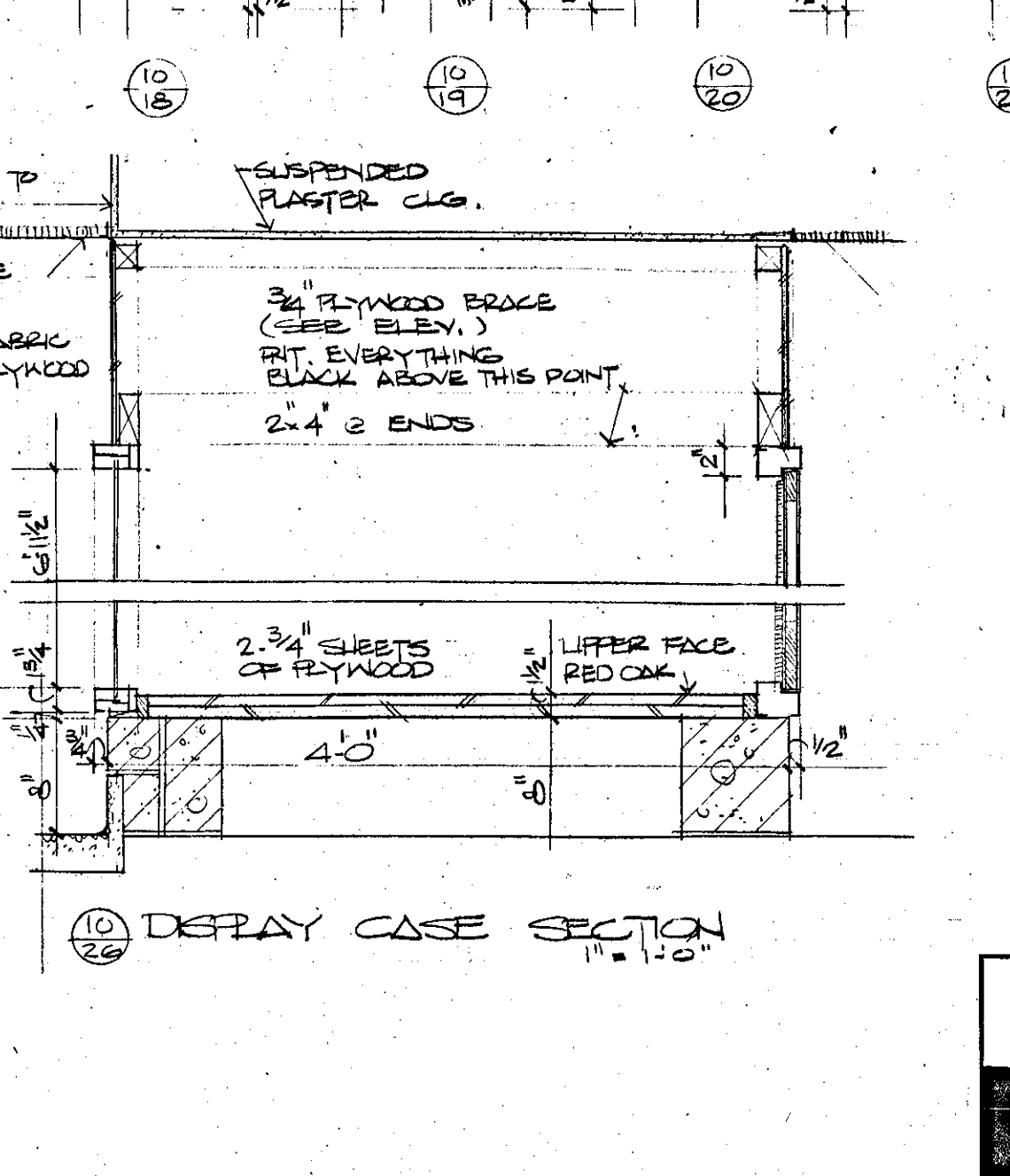
10 DISPLAY CASE SECTION 1-1-0"



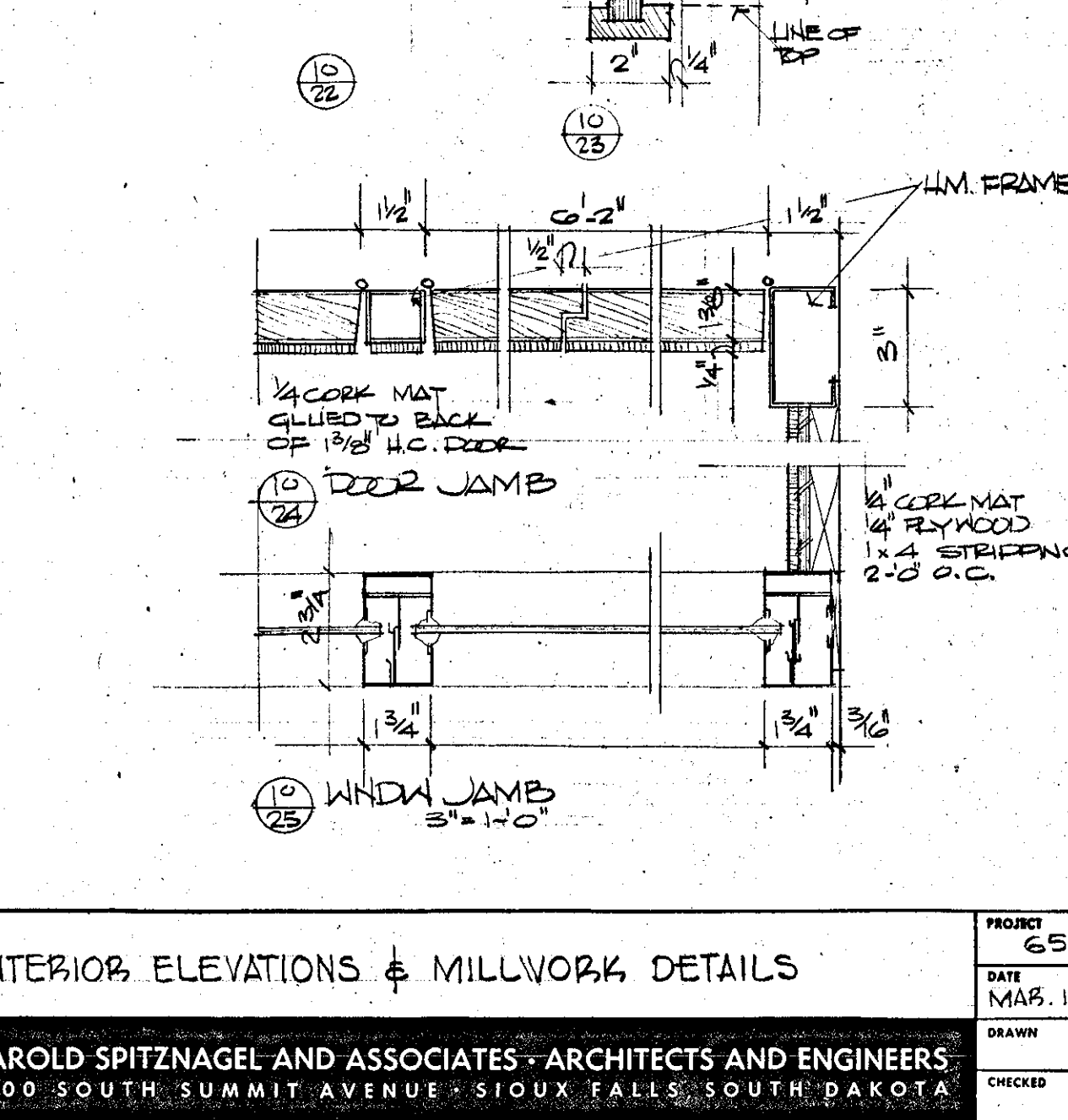
10 DISPLAY CASE SECTION 1-1-0"



10 COUNTER SECTION 1-1-0"

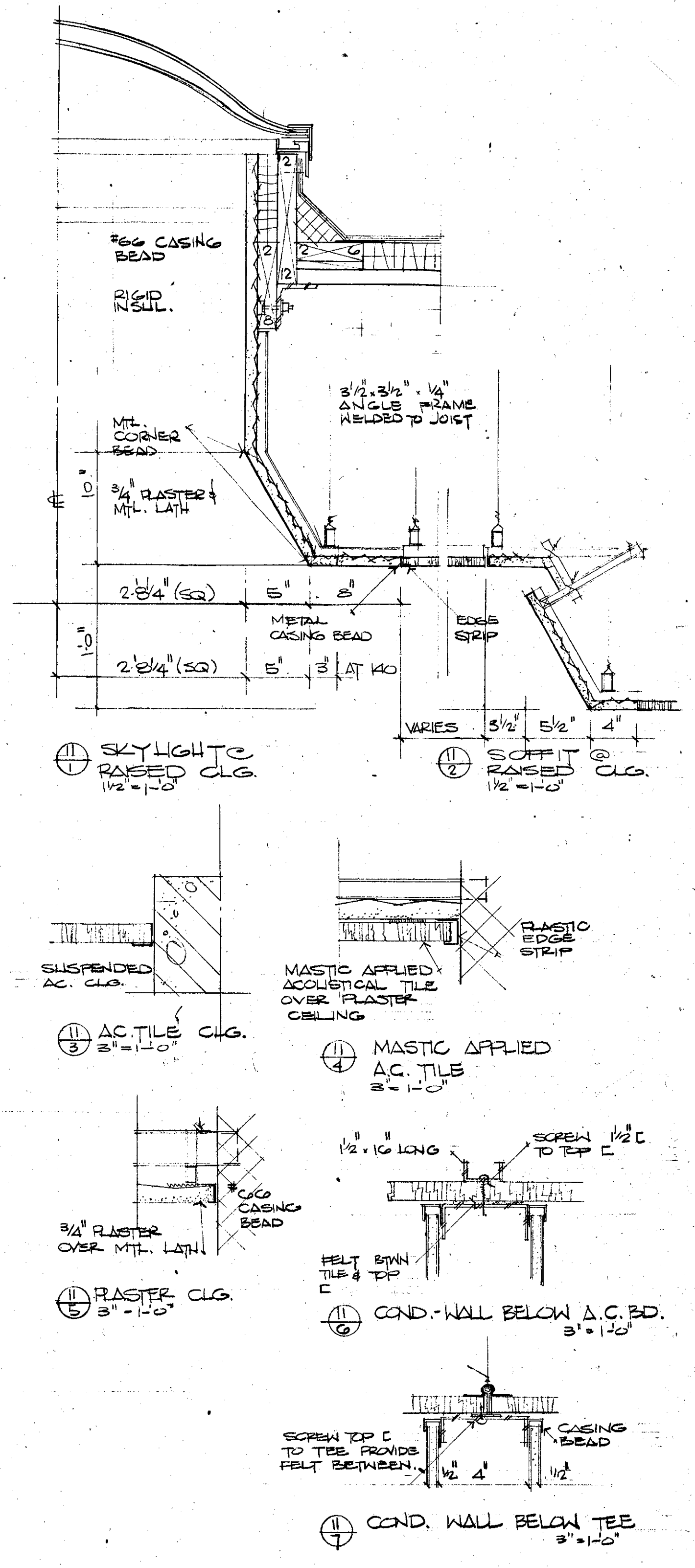


10 CREDENZA SECTION 1-1-0"



10 WINDOW JAMB SECTION 5-1-0"

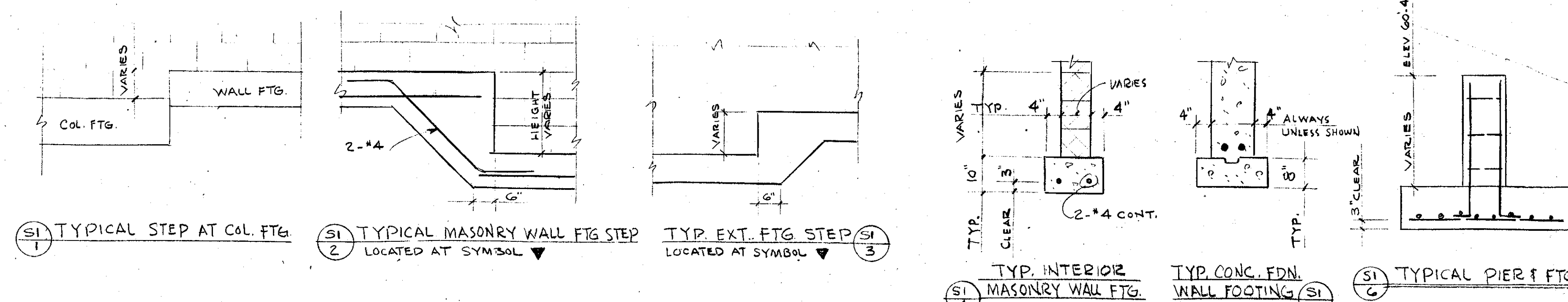




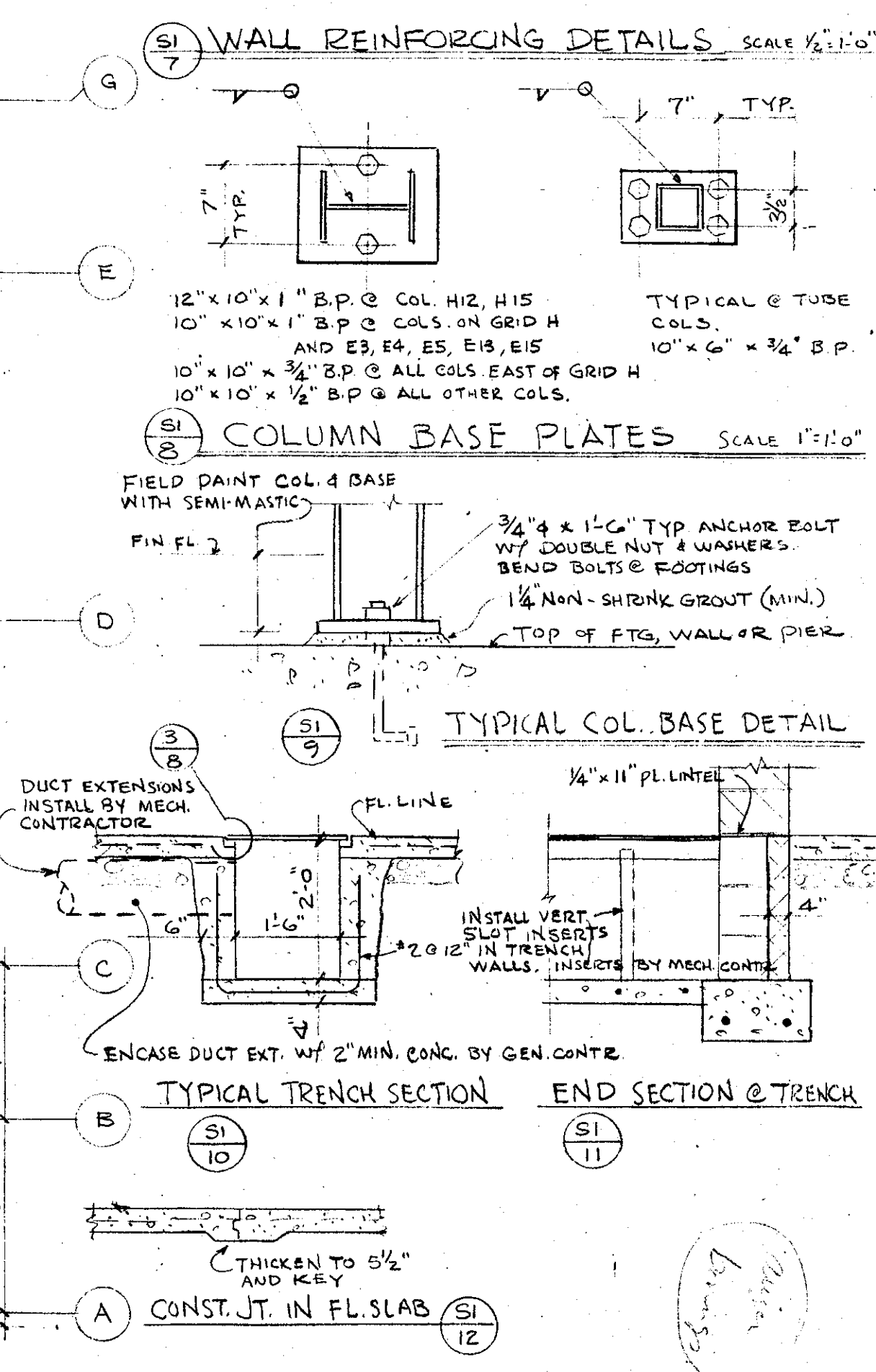
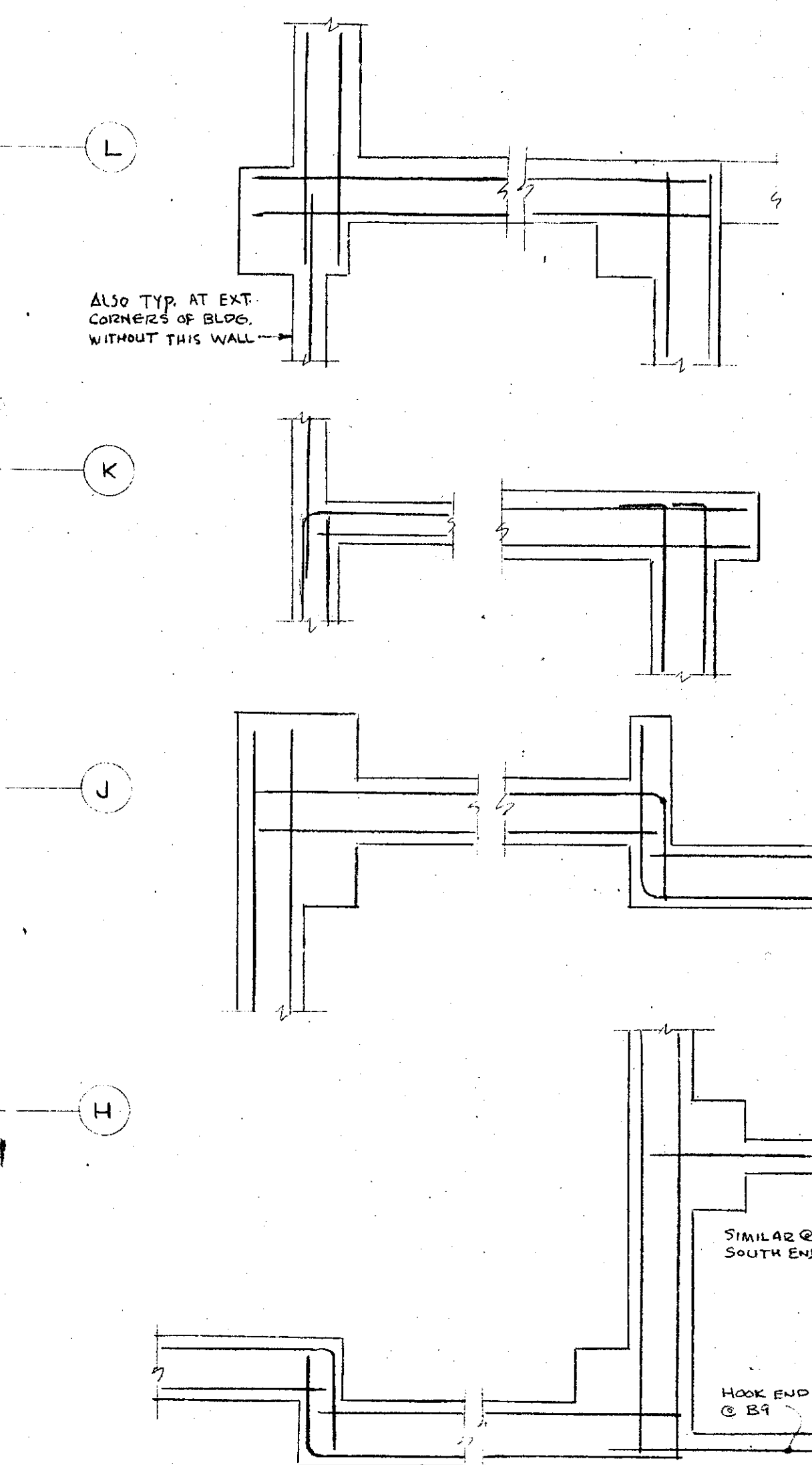
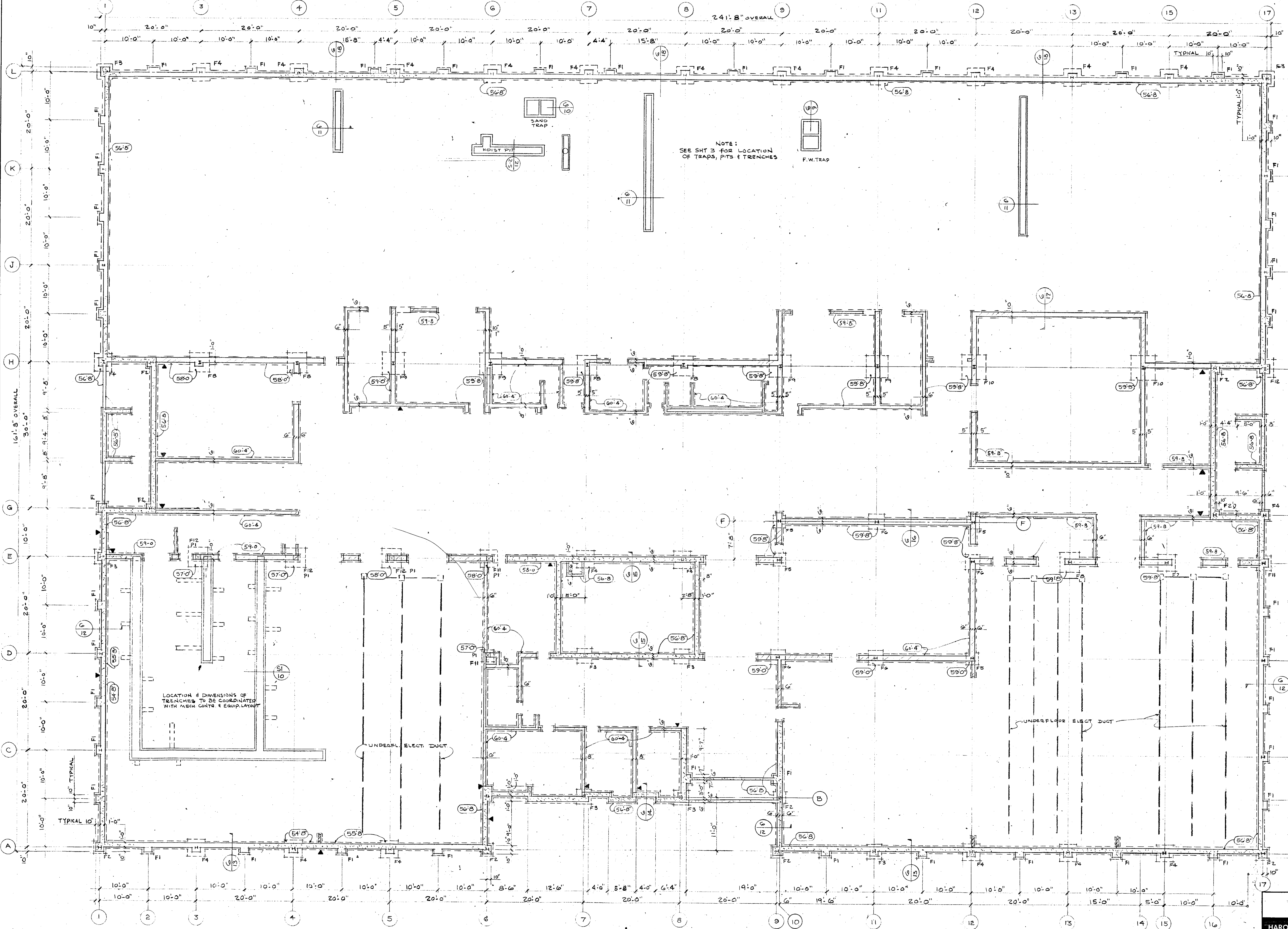


**GENERAL NOTES**

1. ALL FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SAFELY SUPPORTING A UNIFORM LOAD OF 5000 POUNDS PER SQUARE FOOT WITHOUT HARMFUL SETTLEMENT.
2. TOP OF FOOTINGS OR BOTTOM OF WALLS ARE TO BE LOCATED AT ELEVATION INDICATED BY SYMBOL (S). SHOULD SOIL BEARING CONDITIONS VARY, THESE ELEVATIONS ARE SUBJECT TO CHANGE.
3. SHOULD QUESTIONABLE SOIL CONDITIONS BE ENCOUNTERED NOTIFY ARCHITECT IMMEDIATELY.
4. NO COLUMN FOOTINGS OR CONC. WALL FOOTINGS SHALL BE PLACED ON FILL OR DISTURBED SOIL.
5. NO FILL OR BACKFILL SHALL BE "SETTLED" BY FLOODING WITH WATER. USE POWER TOOLS, EQUIPMENT TO COMPACT.
6. ALL REINFORCING BAR LAPS SHALL BE 24 BAR DIAM. MIN. ALL WIRE MESH LAPS SHALL BE 6" AT ENDS AND SIDES. PLACE OR SUPPORT ALL REINFORCING BARS & WIRE MESH TO PROVIDE 3" CONC. COVER AT BOTTOM OF FOOTINGS, WALLS; 2" CONC. COVER AT SIDES OF WALLS; 2" CONC. BELOW MESH AT SLABS ON GRADE.
7. REINFORCE ALL SLABS ON EARTH WITH 6"x6"-9/8 WIRE MESH.
8. REINFORCE ALL CONC. FOUNDATION WALLS THUS UNLESS NOTED: 2-#6 CONT. TOP & BOT AT 10' OR 12' WALLS. 2-#8 CONT. TOP & BOT AT 8' WALLS. 1-#8 CONT. TOP & BOT AT 6' WALLS. 11. SEE SPECS. FOR MAX. SIZE OF CONC. POUR.



MARK	SIZE	REINFORCING	DOWELS
F1	2'-4" SQ x 8"	-	-
F2	2'-8" SQ x 10"	5-#4 x 2'-3" E.W.	4-#4 x 4'-0" 3/4" C
F3	3'-0" SQ x 10"	6-#4 x 2'-6" E.W.	4-#4 x 4'-0" "
F4	3'-6" SQ x 10"	9-#4 x 3'-0" E.W.	4-#4 x 4'-0" "
F5	2'-8" SQ x 10"	5-#4 x 2'-3" E.W.	COL. ANCH. B.
F6	3'-0" SQ x 10"	7-#4 x 2'-6" E.W.	" "
F7	3'-6" SQ x 10"	10-#4 x 3'-0" E.W.	" "
F8	4'-0" SQ x 10"	9-#5 x 3'-6" E.W.	" "
F9	4'-6" SQ x 11-3"	11-#5 x 4'-0" E.W.	" "
F10	5'-0" SQ x 11-6"	11-#5 x 4'-0" E.W.	" "
F11	3'-6" SQ x 10"	10-#4 x 3'-0" E.W.	4-#6 EXTEND UP TO TOP OF PER. DITTO
F12	4'-0" SQ x 10"	9-#5 x 3'-6" E.W.	" "
PI	12" SQUARE	P2 TIES @ 12" O.C.	DOWEL FROM FTO

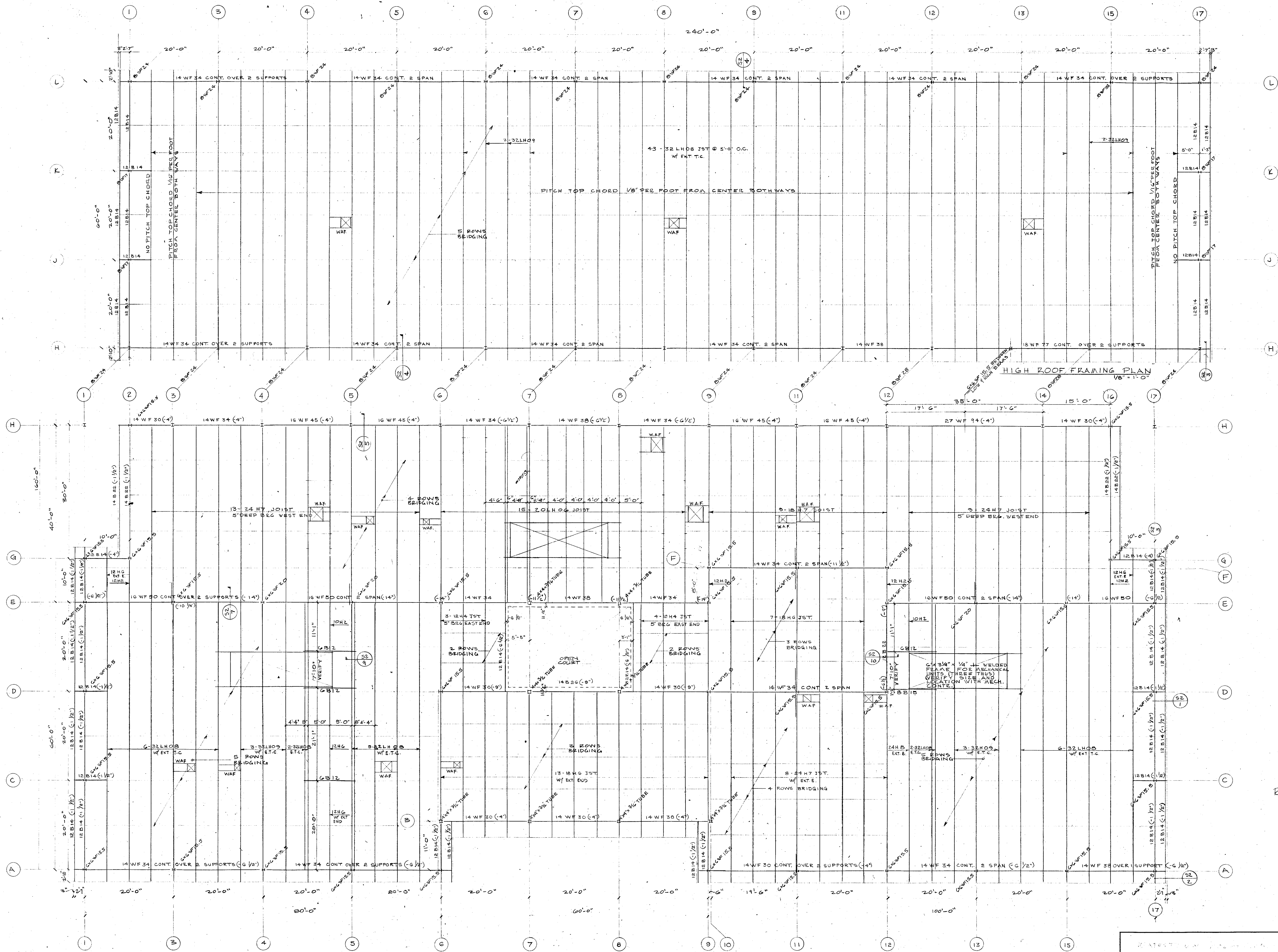


**FOUNDATION PLAN**  
SCALE: 1/8" = 1'-0"  
FIN FL. ELEV. 61'-0"









HIGH ROOF FRAMING PLAN  
1/8" = 1'-0"

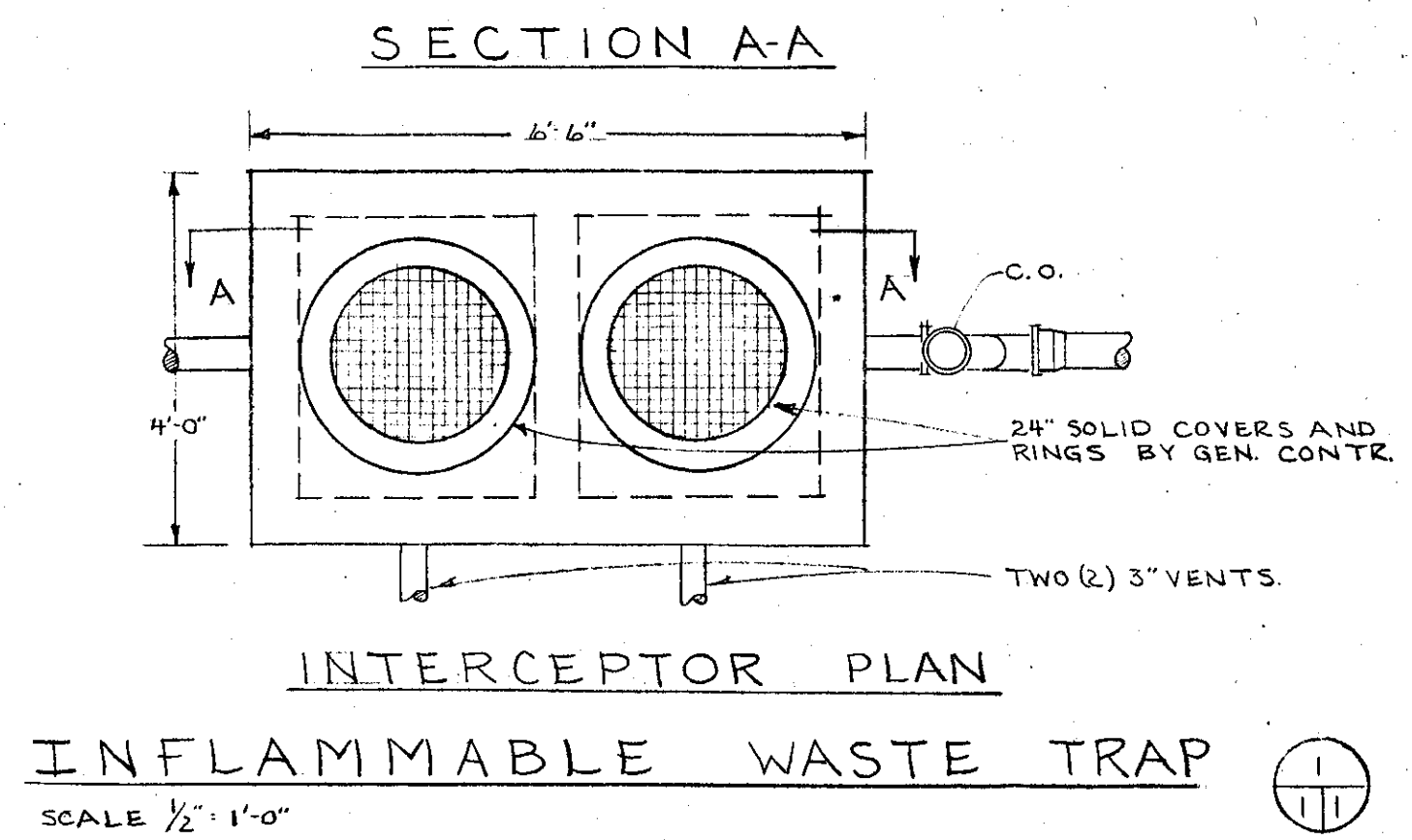
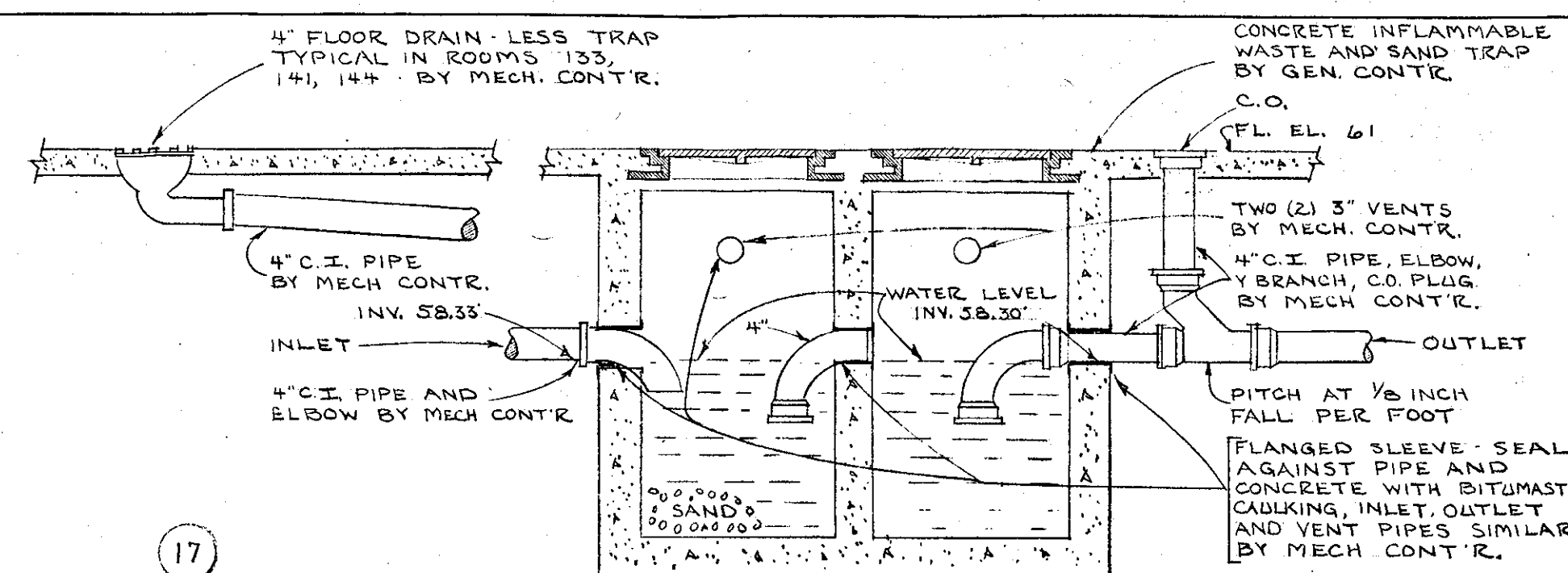
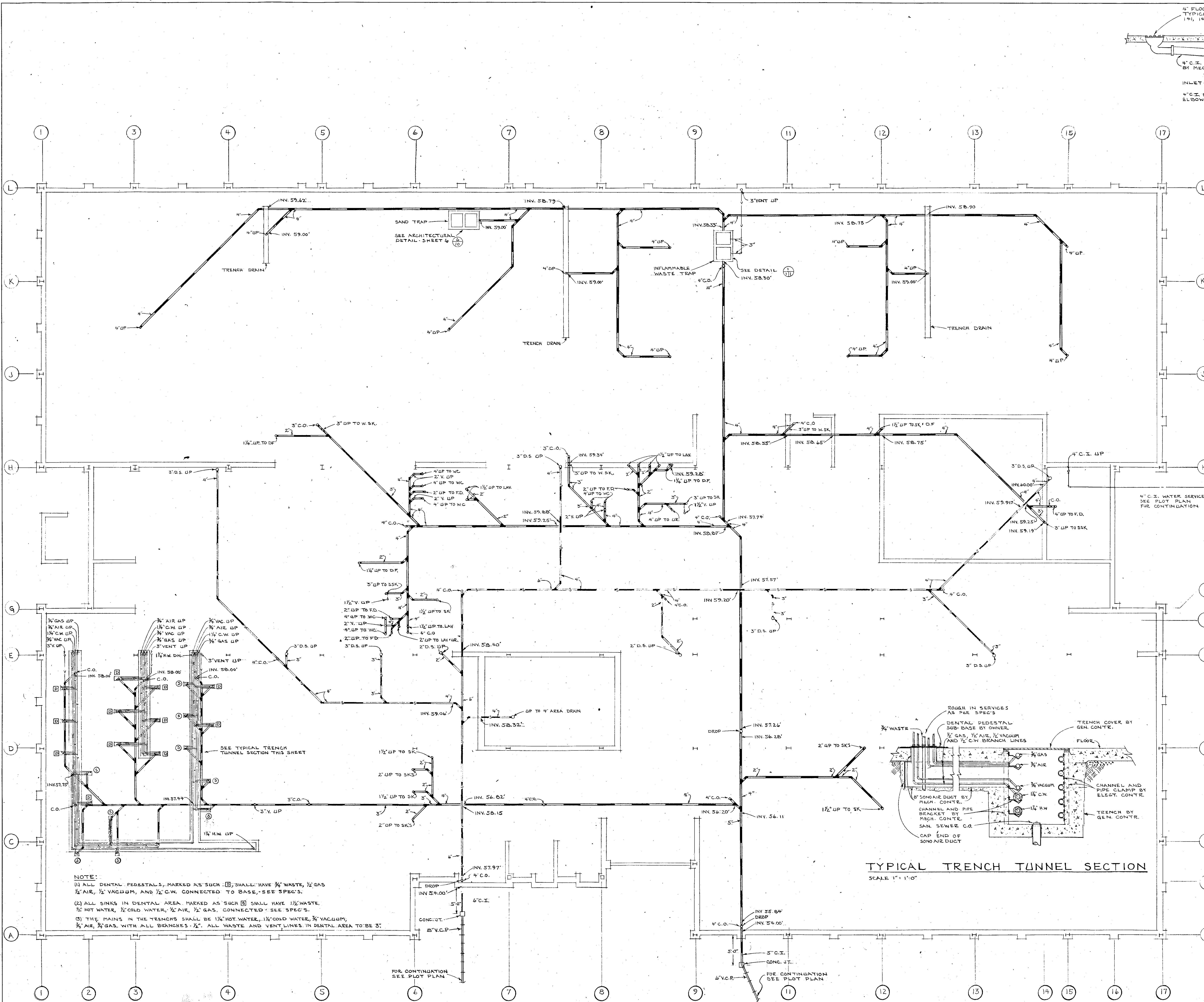
LOW ROOF FRAMING PLAN  
1/8" = 1'-0"



PROJECT	
DATE	
DRAWN	
CHECKED	
5-3	

ROOF VENTS





**ABBREVIATIONS**

A.F.	ACCESS PANEL	EA	EACH	INT.	INTERIOR	SAI.	SAFETY
ACCU.	ACCU.	ELEC.	ELECTRICAL	JOINT	JOINT	SCT.	SECTION
ACON.	ACCOMMODATION	E.O.P.	ELECTRIC OPERATED	JOINT SPACE	JOINT SPACE	SH.	SHED
A.C.	ANCHOR	E.P.S.W.	ELECTRIC-PNEUMATIC SWITCH	LAB.	LABORATORY	S.M.	SHUT METAL
A.D.	AN OPERATED	EXP.	EXPANSION	LAV.	LAVATORY	S.S.	STILL COCK
ARR.	ARRANGEMENT	EXT.	EXTERIOR	LAV. UNDRY	LAV. UNDRY	S.S.C.	SEE SPEC.
AS.	ASBESTOS	F.P.	FLOOR PLATE	LAV. UNDRY	LAV. UNDRY	S.S.C.	SEE SPEC.
AS.	ASBESTOS	F.P.	FLOOR PLATE	LAV. UNDRY	LAV. UNDRY	S.S.C.	SEE SPEC.
AS.	ASBESTOS	F.P.	FLOOR PLATE	LAV. UNDRY	LAV. UNDRY	S.S.C.	SEE SPEC.
AS.	ASBESTOS	F.P.	FLOOR PLATE	LAV. UNDRY	LAV. UNDRY	S.S.C.	SEE SPEC.

**SYMBOLS**

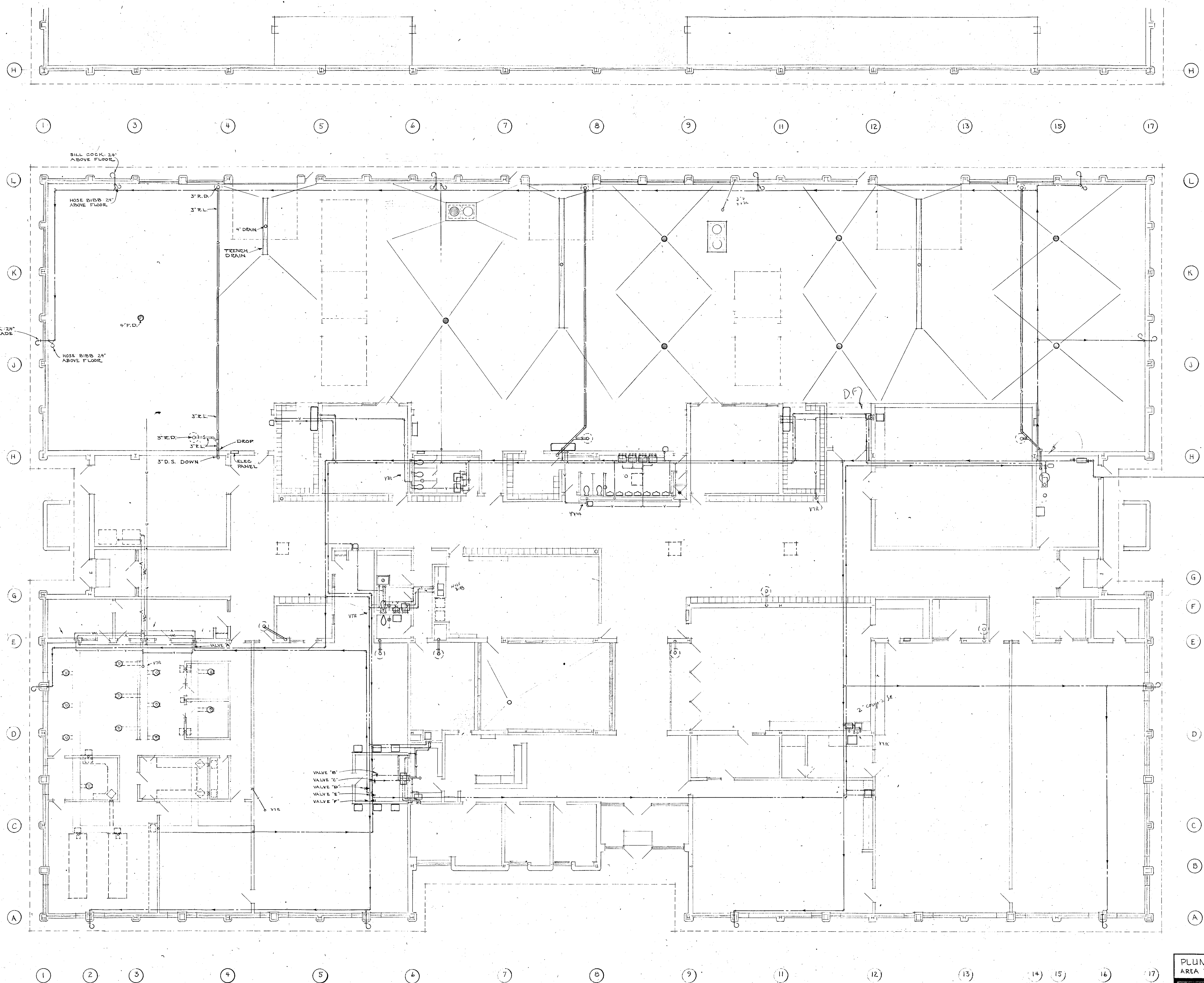
---	SOIL WASTE DRAIN UNDERGROUND	---	PIPE DOWN	---	SHUT COCK OR HOSE	---	DUCT SECTION/MAINT OR RETURN AIR
---	SOIL WASTE DRAIN ABOVE GROUND	---	ANCHOR	---	SHOWER HEAD	---	FRESH AIR DUCT SECTION
---	STORM ABOVE GROUND	---	VALVE IN VERTICAL	---	PLUMBING ROOF VENT	---	SUPPLY DUCT-BURNING AWAY
---	STORM UNDERGROUND	---	GAS SHUT-OFF VALVE	---	FLOOR DRAIN	---	RESILIENT/FRISKET OR RETURN DUCT-BURNING AWAY
---	VERIFIED CLAY PIPE	---	UNION	---	THERMOMETER	---	ROUND DUCT SECTION SUPPLY
---	CLEAN OUT	---	SQUARE HEAD COCK	---	PRESSURE GAUGE	---	ROUND DUCT SECTION RETURN
---	CLEAN OUT	---	TEMPERATURE CONTROL VALVE	---	STEAM SUPPLY	---	INCURRED BROK W/ RESPECT TO AIR FLOW
---	COLD WATER	---	TEMPERATURE CONTROL VALVE	---	CONDENSATE RETURN	---	INCURRED BROK W/ RESPECT TO AIR FLOW
---	1/2\"/>						

**NOTE:**  
 (1) ALL DENTAL PEDESTALS, MARKED AS SUCH [D], SHALL HAVE 1/2" WASTE, 1/2" GAS, 1/2" AIR, 1/2" VACUUM, AND 1/2" C.W. CONNECTED TO BASE. SEE SPECS.  
 (2) ALL SINKS IN DENTAL AREA, MARKED AS SUCH [S], SHALL HAVE 1/2" WASTE, 1/2" HOT WATER, 1/2" COLD WATER, 1/2" AIR, 1/2" GAS, CONNECTED. SEE SPECS.  
 (3) THE MAINS IN THE TRENCHES SHALL BE 1 1/2" HOT WATER, 1 1/2" COLD WATER, 1/2" VACUUM, 1/2" AIR, 1/2" GAS, WITH ALL BRANCHES. 1/2" ALL WASTE AND VENT LINES IN DENTAL AREA TO BE 3"

**FOUNDATION PLAN**  
 SCALE 1/8" = 1'-0"  
 FLOOR ELEVATION 61'-0"

**FOUNDATION PLUMBING PLAN**  
 AREA VOCATIONAL TECHNICAL SCHOOL - WATERTOWN, SO. DAK.  
 HAROLD SPITZNAGEL AND ASSOCIATES - ARCHITECTS AND ENGINEERS  
 1800 SOUTH SUMMIT AVENUE - SIOUX FALLS, SOUTH DAKOTA  
 ROBEL AND POPE ARCHITECTS - ASSOCIATE ARCHITECTS  
 201 FARMER AND MERCHANTS BUILDING - WATERTOWN, SO. DAK.

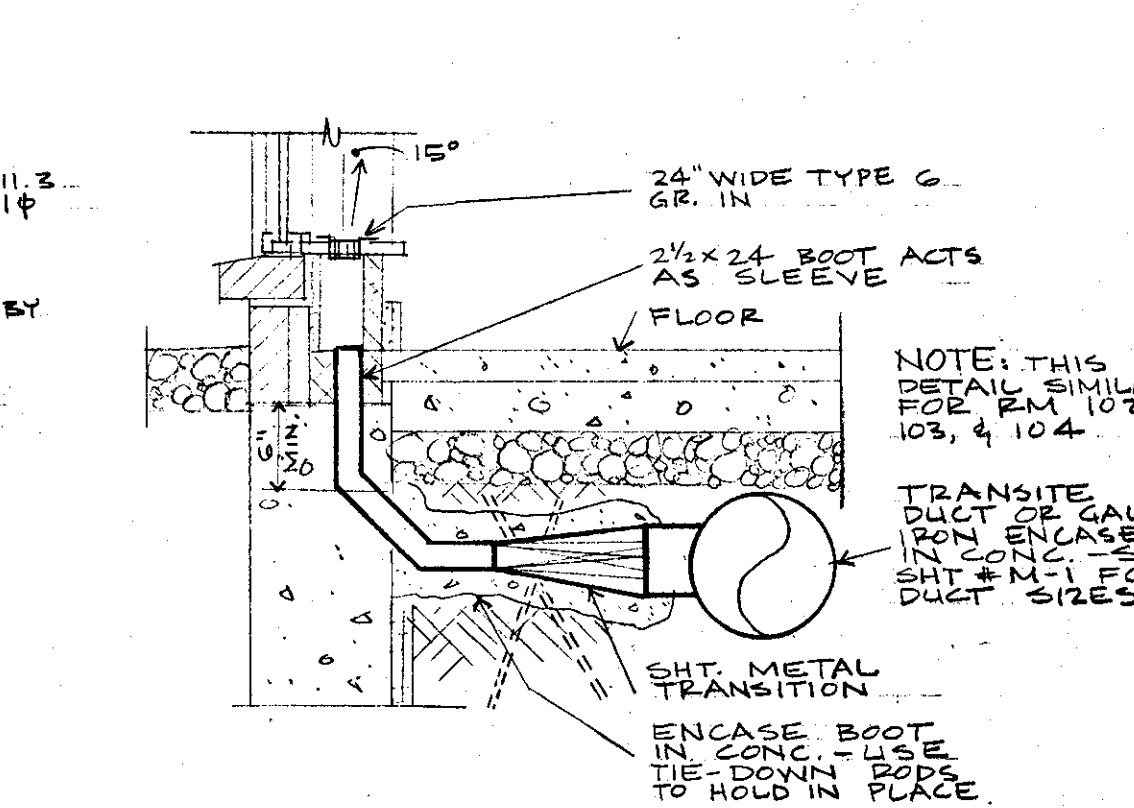
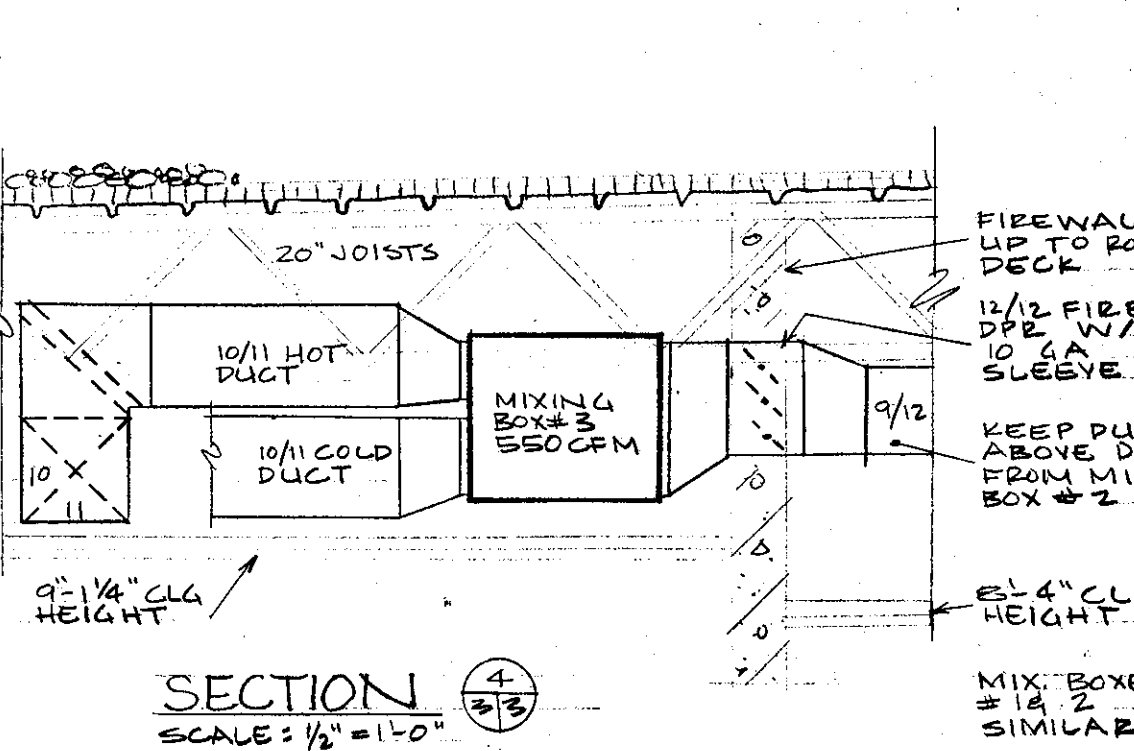
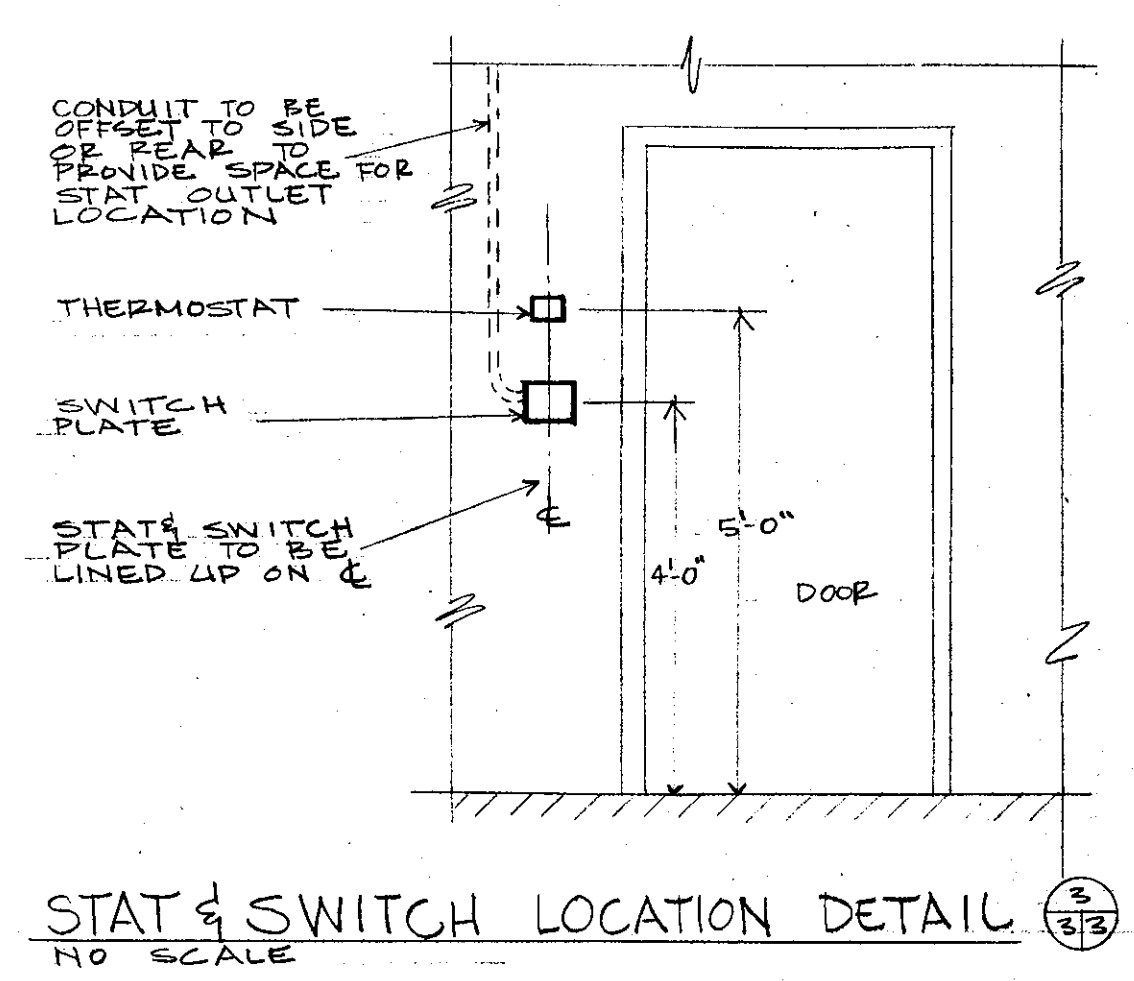
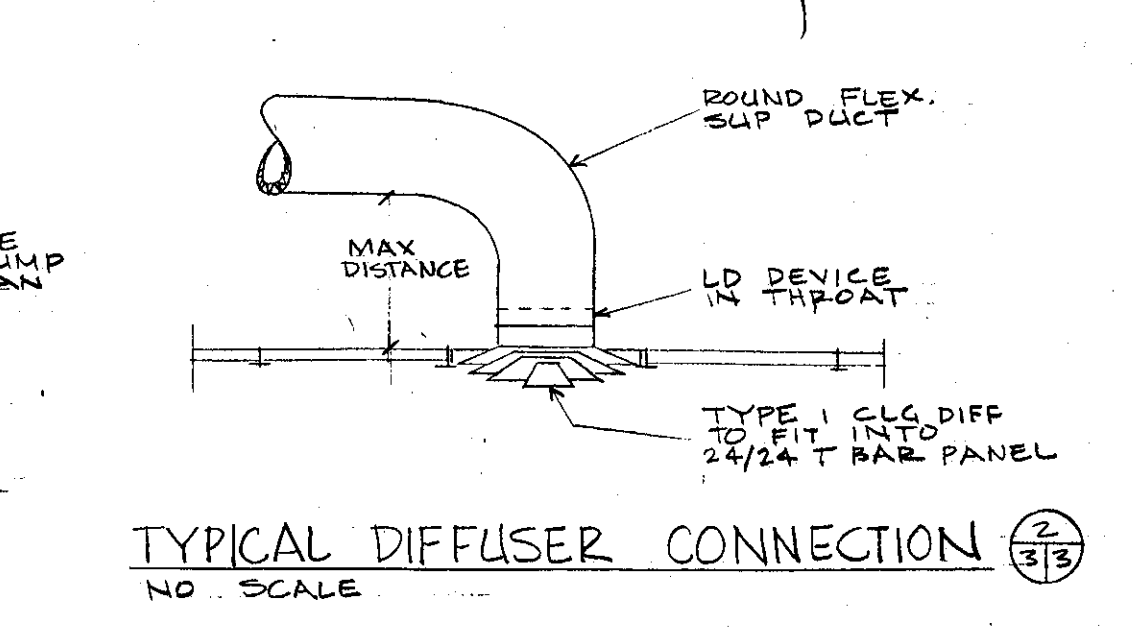
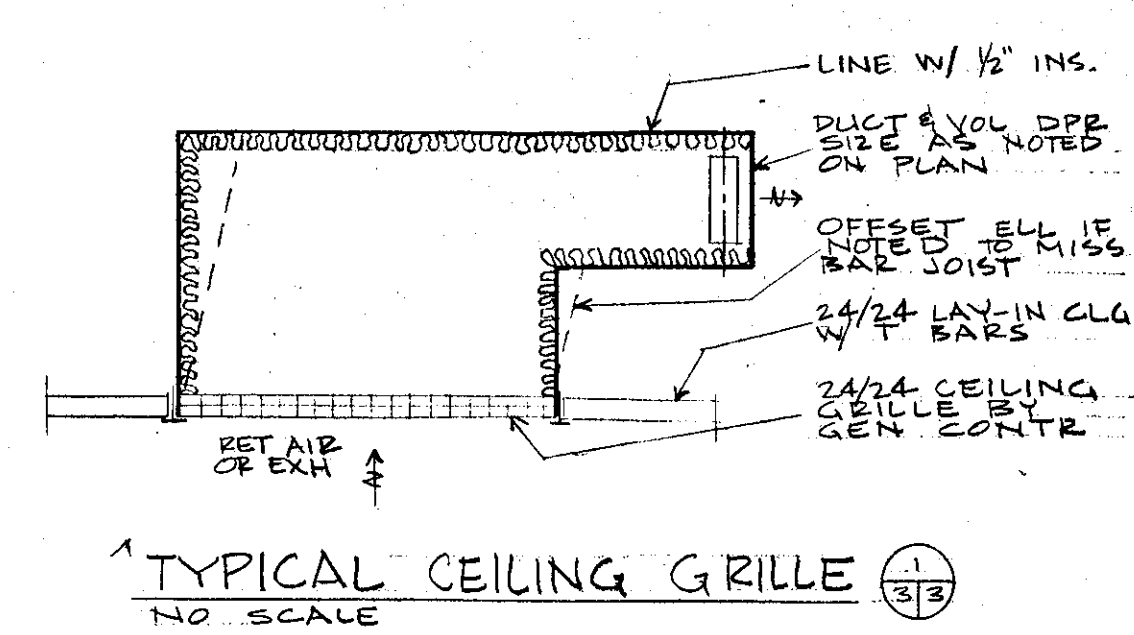
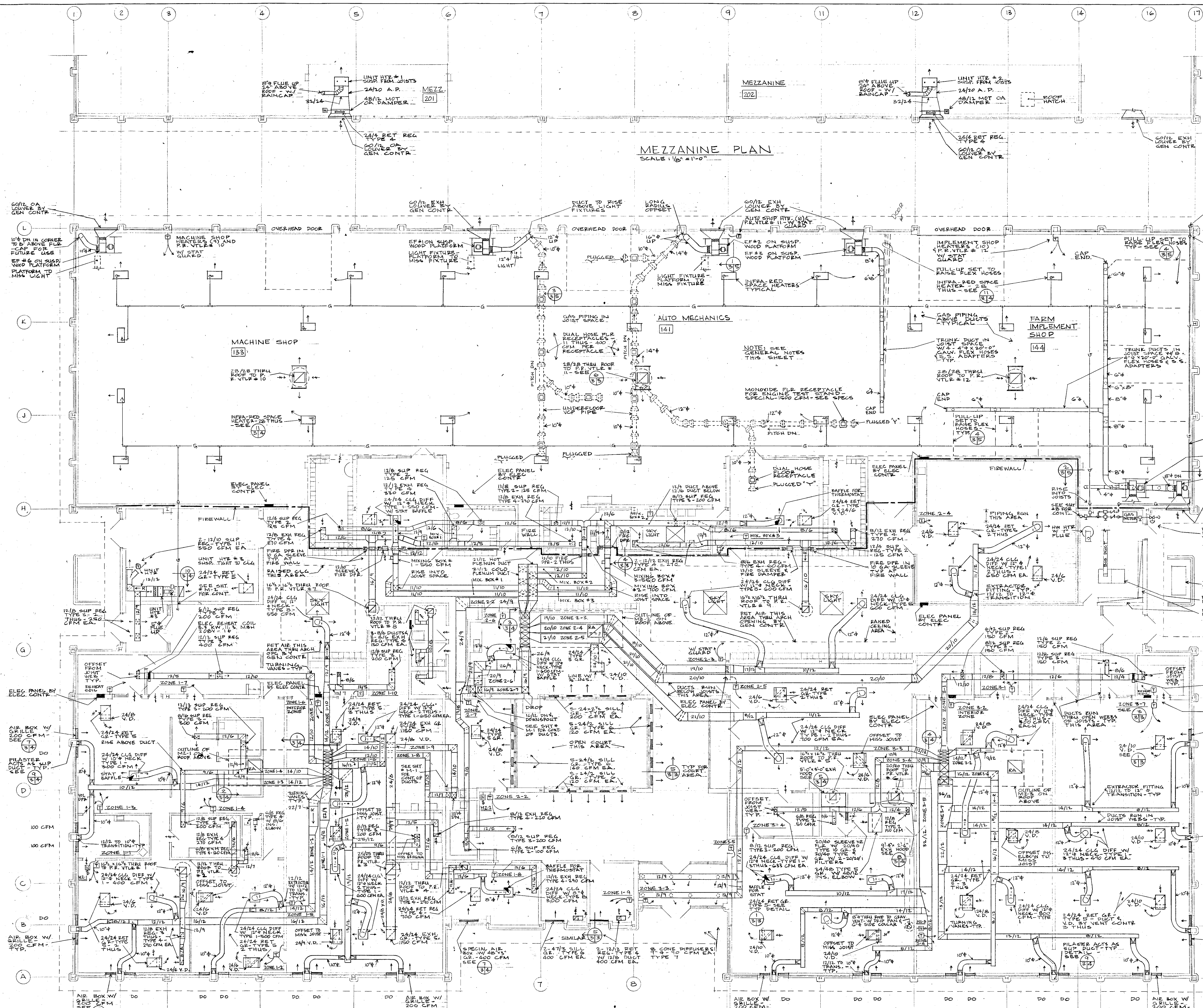




HOT / COLD WATER VALVE SCHEDULE	
C	NORMAL DEMAND - OF DENTAL AREA, AND OF COSMETOLOGY AREA OPEN VALVE "A", "B", "C", "D", "F" CLOSE VALVE "E"
B	NORMAL DEMAND - OF DENTAL AREA NO DEMAND - OF COSMETOLOGY AREA OPEN VALVE "A", "D", "F" CLOSE VALVE "B", "C", "E"
A	NO DEMAND - OF DENTAL AREA NORMAL DEMAND - OF COSMETOLOGY AREA OPEN VALVE "B", "C", "E" CLOSE VALVE "A", "D", "F"
	NO DEMAND - OF DENTAL AREA NOR OF COSMETOLOGY AREA OPEN VALVE "E" CLOSE VALVE "A", "B", "C", "D", "F"

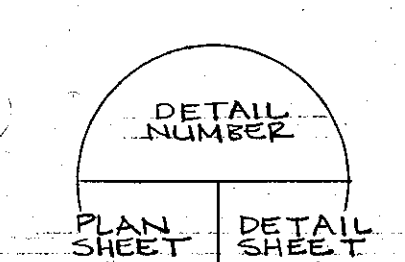
**PLUMBING FLOOR PLAN**  
 AREA VOCATIONAL TECHNICAL SCHOOL - WATERTOWN, SO. DAK.  
 PROJECT 6541  
 DATE MAR. 14, 1966  
 DRAWN WSM  
 CHECKED DLF  
 ROBEL AND POPE ARCHITECTS - ASSOCIATE ARCHITECTS  
 201 FARMER AND MERCHANTS BUILDING - WATERTOWN, SO. DAK. **M2**





- GENERAL NOTES**
1. ACADEMIC AREA CEILING SPACE HEATERS AS RETURN AIR PLUMBING FOR AIR HANDLING UNITS.
  2. SHOP AREA MOUNTING HEIGHTS:
    - a. LIGHT INFRA RED SPACE HEATERS ARE CENTERED ON BAR JOISTS & TIGHT THERETO.
    - b. DUCTS, PIPING RUN THRU WEBBS OF JOISTS.
    - c. PLATFORMS FOR EXHAUST FANS, MOUNTED AS HIGH AS POSSIBLE W/ EXHAUST FANS IN JOIST SPACE.
    - d. P. R. VTLR # 10, 11, & 12 HAVE UNDERSIDE OF DIFFUSER BOX ASSEMBLY AT BOTTOM OF BAR JOISTS.
  3. VENTILATING CONTRACTOR IS ADVISED TO PROVIDE DUE ALLOWANCE ON DISCHARGE OF TRANSITION ELBOWS ON DISCHARGE OF FAN UNITS IN DIMENSIONS & COORDINATION THESE UNITS IN RELATION TO CEILING & DUCT SIZES.
  4. PROVIDE ACCESS PANELS IN DUCTS W/ FIRE DAMPERS.

**FLOOR PLAN**  
SCALE: 1/8" = 1'-0"  
FLOOR ELEVATION 1'-0"



**HEATING & VENTILATING FLOOR PLAN**  
AREA VOCATIONAL TECHNICAL SCHOOL - WATERTOWN, SO. DAK.

HAROLD SPITZNAGEL AND ASSOCIATES - ARCHITECTS AND ENGINEERS  
1800 SOUTH SUMMIT AVENUE - SIOUX FALLS, SOUTH DAKOTA

ROBEL AND POPE ARCHITECTS - ASSOCIATE ARCHITECTS  
201 FARMER AND MERCHANTS BUILDING - WATERTOWN, SO. DAK.

DATE: MAR. 14, 1966  
SHEET: 12  
CONTR: M3



**AIR HANDLING UNITS**

UNIT DESIGNATION	LOCATION	SERVES	MANUFACTURER'S DESIGNATION	CIRCULATING BLOWER			CONDENSING UNIT		ELECTRICAL CHARACTERISTICS			HEATING COIL			COOLING COIL			DAMPER SECTION	ACCESSORIES	REMARKS	CONTROLS
				CFM	S.P. H <sub>2</sub> O	HP	TYPE	CAPACITY NRBH	TYPE	TYPE	HEAT SECTION	DESIGN MSH	DISCH. TEMP.	COIL ROWS	LOAD NRBH	ENT. AIR °F DB	°F WB				
MZ-1	117 ROOF	RM 102-104, 115-130	LENNOX DMS1-275	10,500	0.70	5	HSM1-2753V	275	440 - 60 - 3	QX1-490	570 *	100°F	6	275	79.7	66.2	61.3	57.7	12 SEGMENTS 12 ZONES	BASE FRAME, NIGHT OPERATION, INC. COND PLATFORM	STD MODULATING 2X 2X RELIEF AIR VLV, 3 POSITION ZONE CONTROLS, ADD NIGHT OPERATION
MZ-2	109 ROOF	RM 105-109, 114-142, 145, 146	LENNOX DMS1-275	10,000	0.70	5	HSM1-2753V	275	440 - 60 - 3	QX1-490	570 *	100°F	6	275	79.7	66.2	60.3	57.7	12 SEGMENTS 12 ZONES	BASE FRAME, NIGHT OPERATION, INC. COND PLATFORM	ZONE 21 FOR MIXING BOXES - NO ZONE CONTROLS FOR THIS ZONE
MZ-3	193 ROOF	RM 150-155, 158-160	LENNOX DMS1-275	10,500	0.60	5	HSM1-2753V	275	440 - 60 - 3	QX1-490	570 *	100°F	6	275	79.7	66.2	61.3	57.7	12 SEGMENTS 12 ZONES	BASE FRAME, NIGHT OPERATION, INC. COND PLATFORM	INDUCED DRAFT FAN REQUIRED
UNIT HTR #1	MEZZANINE	SHOP MAKEUP AIR	LENNOX LF-200-A	2400	—	1/6	—	—	120 - 60 - 1	—	160	60° RISE	—	—	—	—	—	—	S.S. HEAT EXCHANGER, MODULATING GAS VALVE, HOT ON DPR	INDUCED DRAFT FAN REQUIRED	DUCTSTAT, INTERLOCK W/ EF#2
#2	MEZZANINE	SHOP MAKEUP AIR	LENNOX LF-200-A	2400	—	1/6	—	—	120 - 60 - 1	—	160	60° RISE	—	—	—	—	—	—	W/ BLOWER CABINET	INDUCED DRAFT FAN REQUIRED	DUCTSTAT, INTERLOCK W/ EF#4
#3	RM 132	VESTIBULE, RM 132	REZNOR LUS 75B/BE	1000	0.20	1/6	—	—	120 - 60 - 1	—	60	115°F	—	—	—	—	—	—	—	—	STD UNITEMP LUS SERIES
#4	RM 146	VESTIBULE, RM 146	REZNOR LUS 75B/BE	1000	0.20	1/6	—	—	120 - 60 - 1	—	60	115°F	—	—	—	—	—	—	—	—	STD UNITEMP LUS SERIES

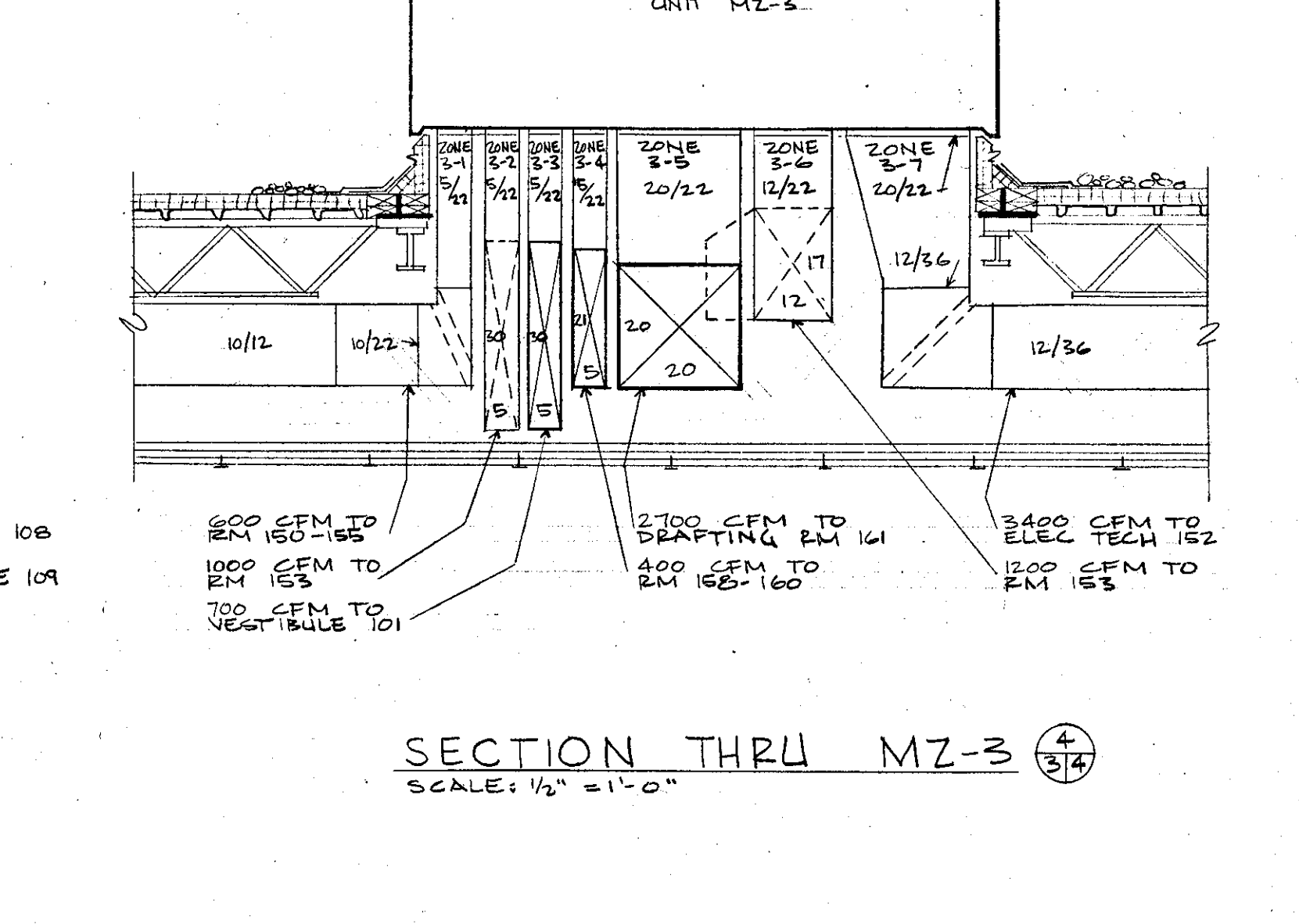
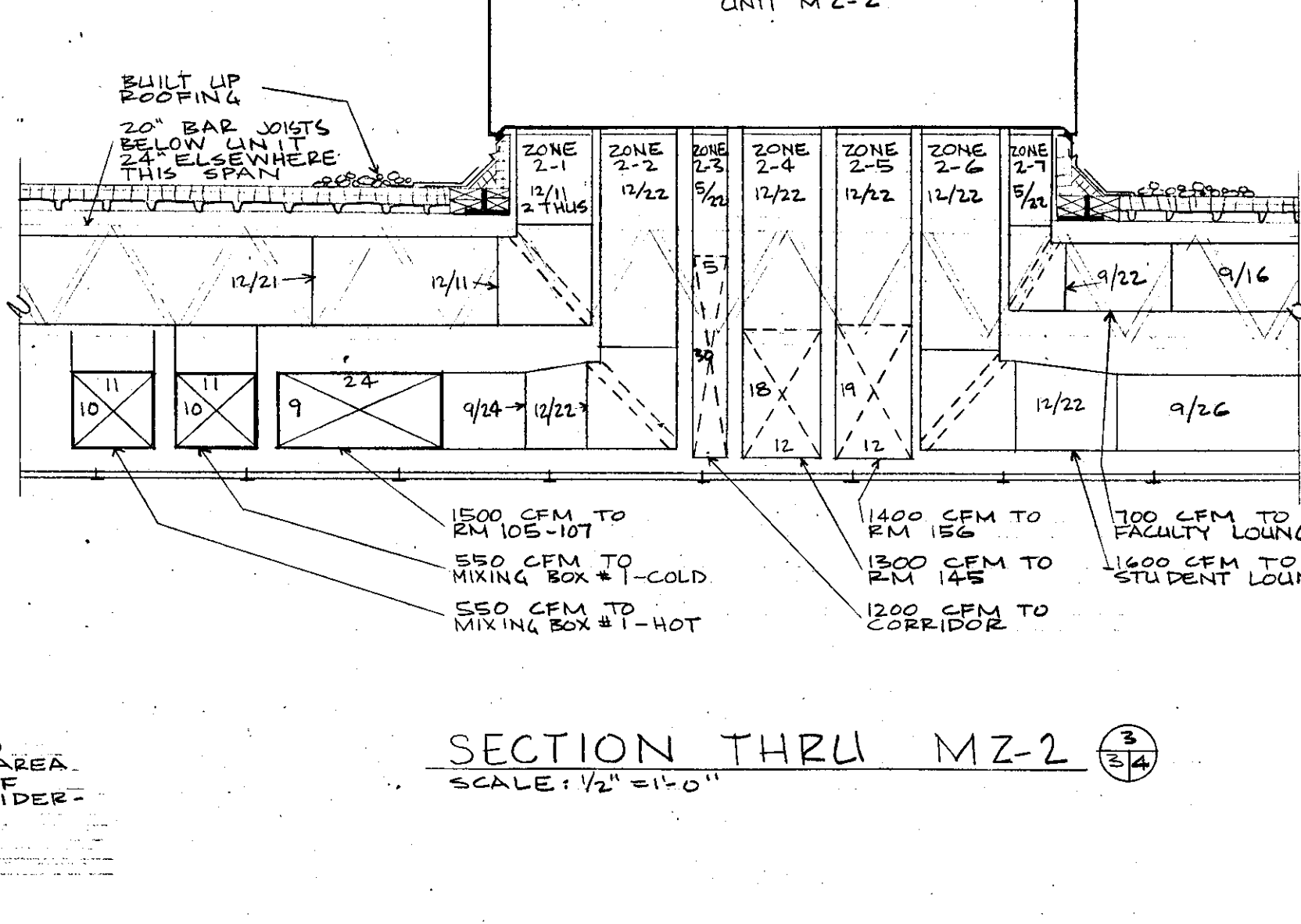
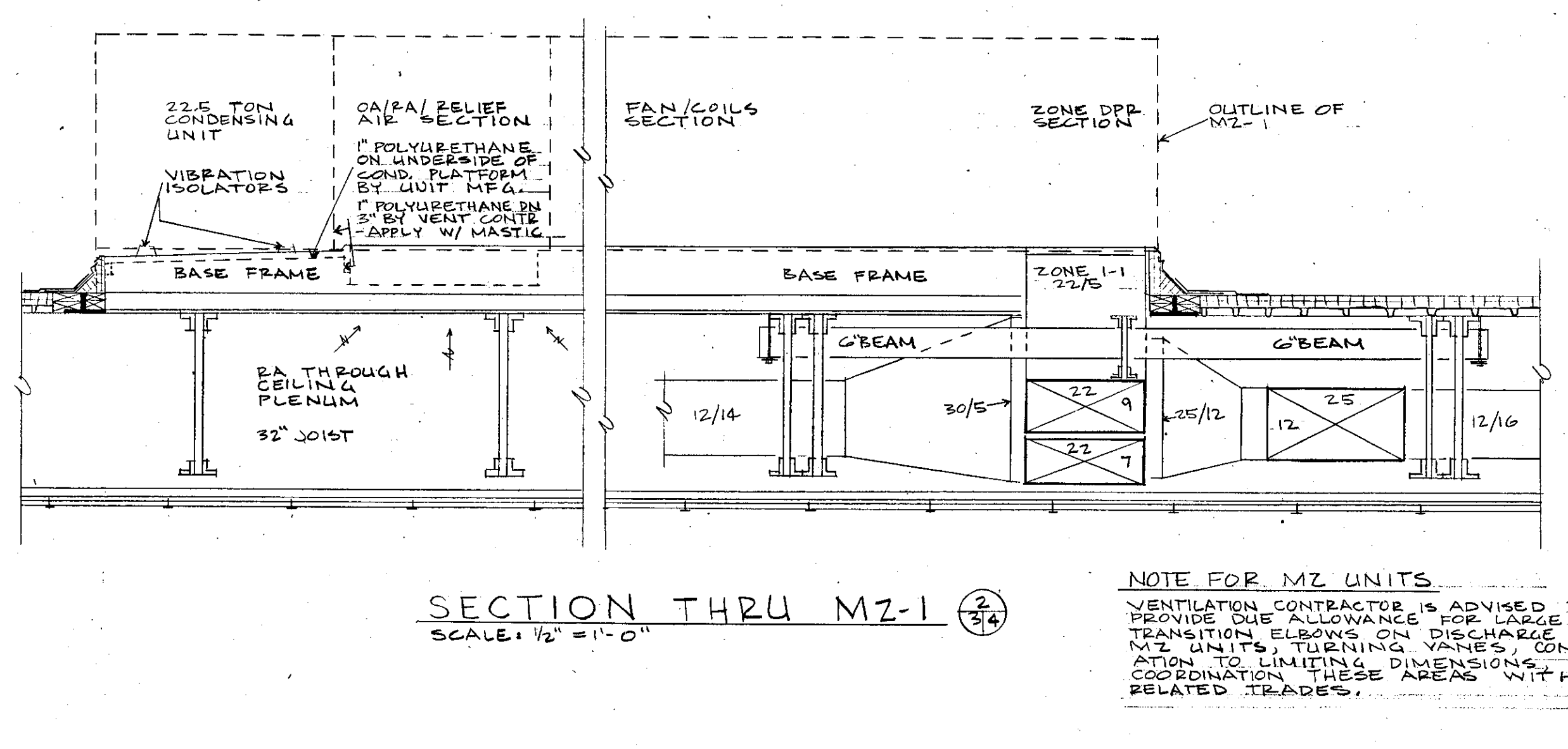
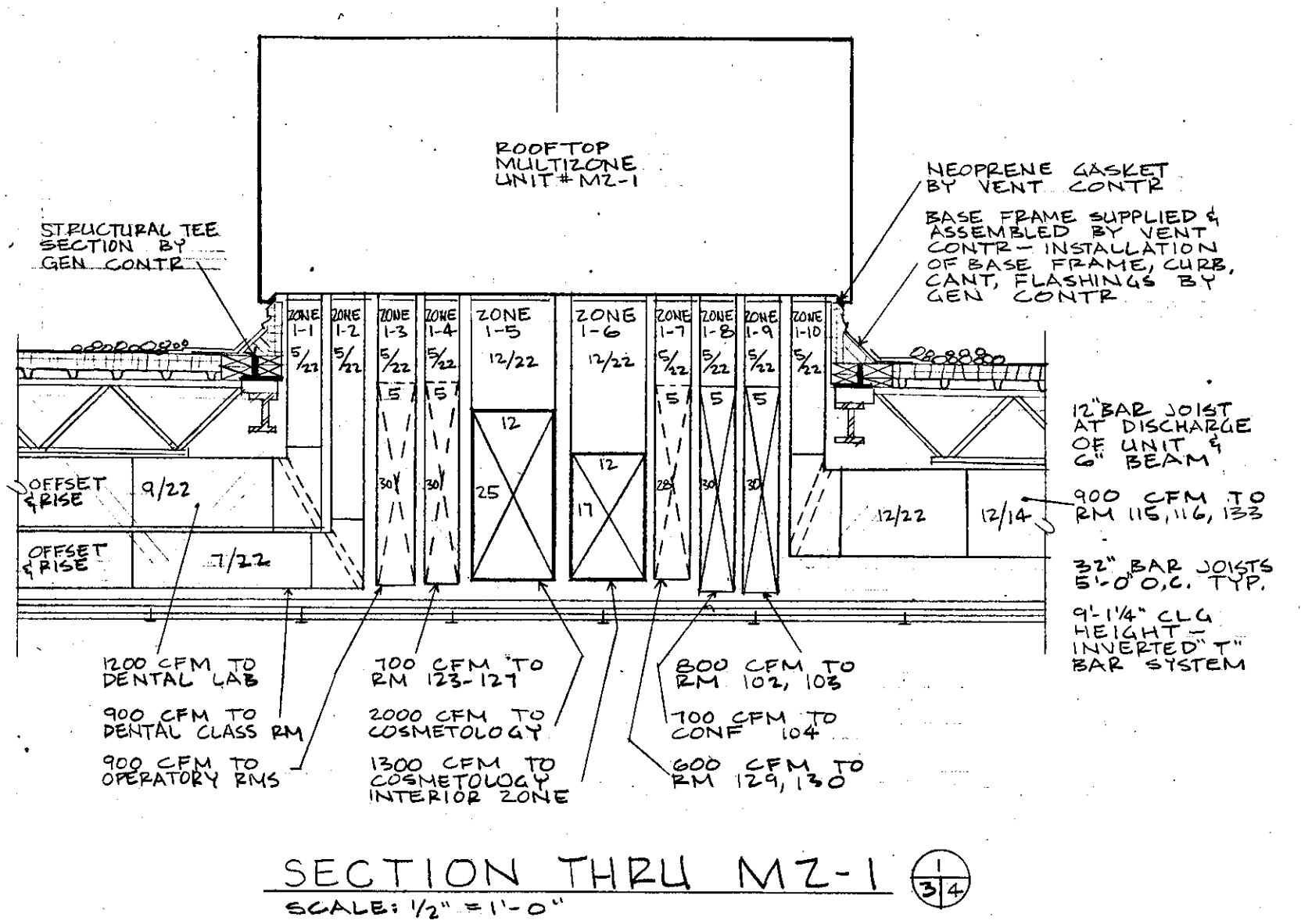
\* BURNER OUTPUT INCREASED TO MEET DESIGN MSH AT 80% BURNER EFFICIENCY

**POWER ROOF VENTILATOR SCHEDULE**

UNIT DESIGNATION	LOCATION	SERVES	MANUFACTURER'S DESIGNATION	CFM	S.P. H <sub>2</sub> O	TIP SPEED	RPM	HP	VOLTS	PHASE	COIL SIZE	REMARKS
P.R.VTLR #1	RM 120	DENTAL LAB RM 120	PENN DYNAFAN LC-16	870	1/4"	3090	715	1/6	120	1	10 1/2 x 12 1/2	W/ ELECTRIC SHUTTER
P.R.VTLR #2	RM 119	RM 123, 124	LC-12	390	1/4"	2860	865	1/6	120	1	12 x 12	
P.R.VTLR #3	RM 117	RM 117, 118	LC-24	2520	1/4"	3465	540	1/3	120	1	25 x 25	
P.R.VTLR #4	RM 104	OFFICE - CONF RM 104	LC-12	570	1/4"	3160	785	1/6	120	1	12 x 12	
P.R.VTLR #5	RM 159	PAINT HOOD	LC-18	1230	3/8"	3465	715	1/4	120	1	10 1/2 x 12 1/2	EXPLOSION PROOF MOTOR, W/ GRAVITY BACKDRAFT DAMPER
P.R.VTLR #6	RM 160	CLEAN ROOM HOOD	LC-20	1820	1/4"	3220	600	1/4	120	1	20 x 20	W/ ELECTRIC SHUTTER
P.R.VTLR #7	RM 115	RM 134, 136, 137	LC-16	870	1/4"	2860	715	1/6	120	1	10 1/2 x 12 1/2	
P.R.VTLR #8	RM 112	RM 113, 114	LC-12	390	1/4"	2860	865	1/6	120	1	12 x 12	
P.R.VTLR #9	RM 138	RM 139, 140, 143	LC-16	870	1/4"	3090	715	1/6	120	1	10 1/2 x 12 1/2	
P.R.VTLR #10	SHOP	MACHINE SHOP RM 133	CLARAGE 8 1/2" CA MINNAPAC	1180 EXH 1000 SUPP	—	—	—	—	480	3	28 x 28	W/ CLARAGE DIFFUSER BOX, 2-3/4" 4 WAY ADJ. GRILLES, EXH GRILLE, MOT. DAMPERS
P.R.VTLR #11	SHOP	AUTO MECH RM 141	—	—	—	—	—	—	—	—	—	
P.R.VTLR #12	SHOP	IMPLEMENT RM 144	—	—	—	—	—	—	—	—	—	

**GRILLE, REGISTER, & DIFFUSER SCHEDULE**

TYPE	MANUFACTURER'S DESIGNATION	DUTY	VOLUME CONTROL	CONSTRUCTION	REMARKS
1	ANEMOSTAT TYPE EP PANEL DIFFUSER	SUPPLY	LR STRAIGHTENING BALANCING DEVICE	STEEL W/ PRIME COAT	DIFFUSER PANEL TO FIT INTO 2" MODULAR INVERTED "T" CEILING SYSTEM. GRILLE TO 2 1/2" x 2 1/2" PANEL SIZE
2	WATERLOO SERIES 101 SINGLE DEFLECTION REGISTER	SUPPLY	OPP. BLADE	—	GRILLE BARS PARALLEL TO LONGER DIMENSION
3	WATERLOO SERIES 103 DOUBLE DEFLECTION REGISTER	SUPPLY	OPP. BLADE	—	GRILLE BARS PARALLEL TO LONGER DIMENSION
4	WATERLOO SERIES 5550 INTEGRILLE	RET. EXH	OPP. BLADE	—	1/2" SPACED HORIZONTAL GRILLE BARS AT 45° ANGLE
5	CLG GRILLE BY GEN CONTR.	RET. EXH	NONE	—	ACOUSTICALLY LINED ELBOW/VALVE BY VENT CONTR-SEE DETAIL
6	WATERLOO TYPE ALIS AIRLINE SILL GRILLE	SUPPLY	NONE	EXTRUDED ALUM.	1/2" BAR SPACING, NO. 3 BORDER (3/4" FLANGES), 15" DEFLECTION
7	PUNJAP TYPE A ROUND GRILLE	SUPPLY	INTERNAL SHUTOFF	PLASTIC/METAL	—
8	ANEMOSTAT TYPE EA-1 SQUARE GRILLE	SUPPLY	LR STRAIGHTENING BALANCING DEVICE	STEEL W/ PRIME COAT	ADJUSTABLE PATTERN, FLANGED CONSTRUCTION
9	WATERLOO 3HP-A1 FILTER GRILLE	EXHAUST	NONE	—	W/ HINGED DOOR, 2-20/20/1 FILTERS
10	WATERLOO 355 INTEGRILLE	EXHAUST	NONE	—	1/2" SPACED HORIZONTAL GRILLE BARS AT 45° ANGLE

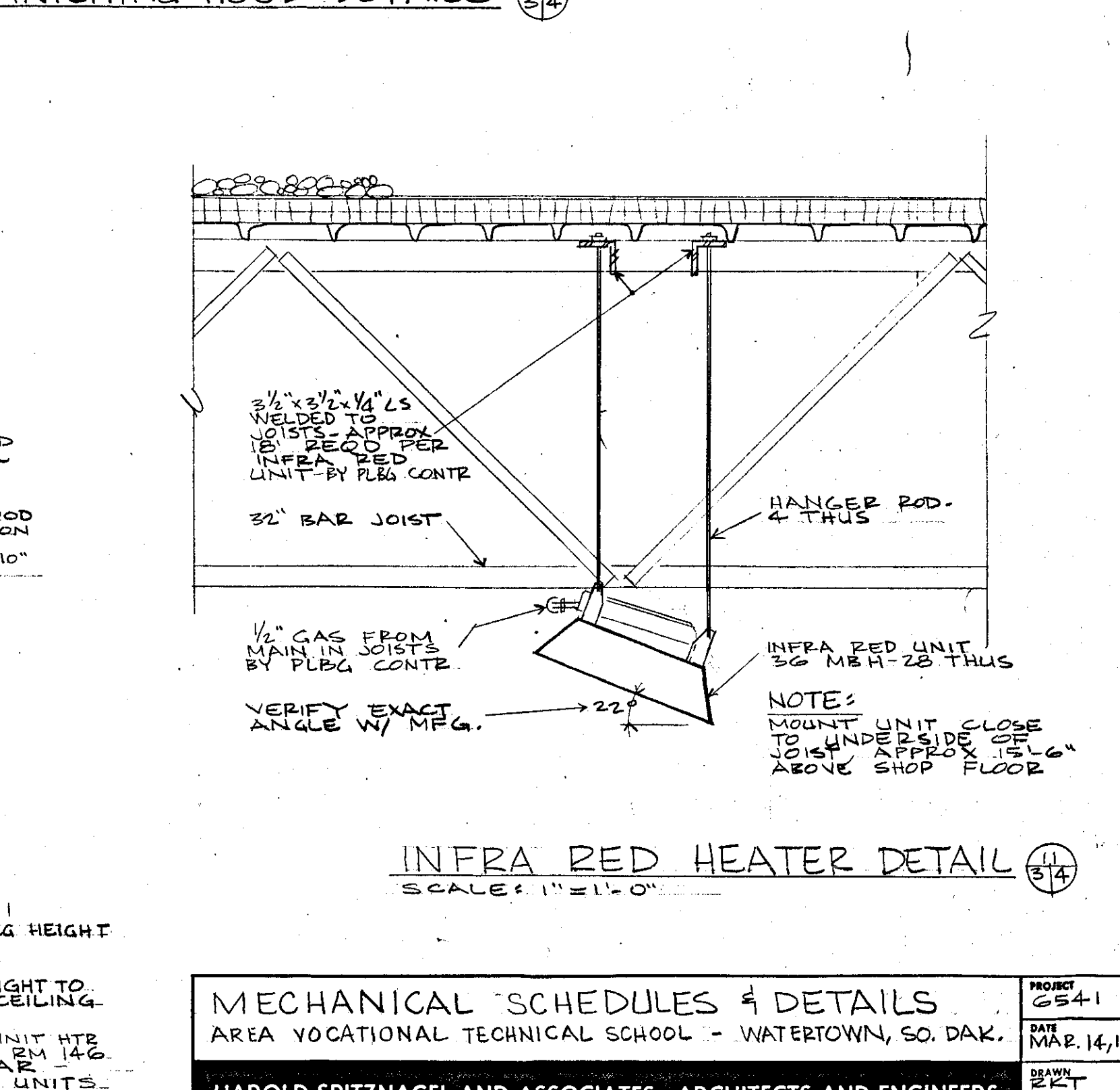
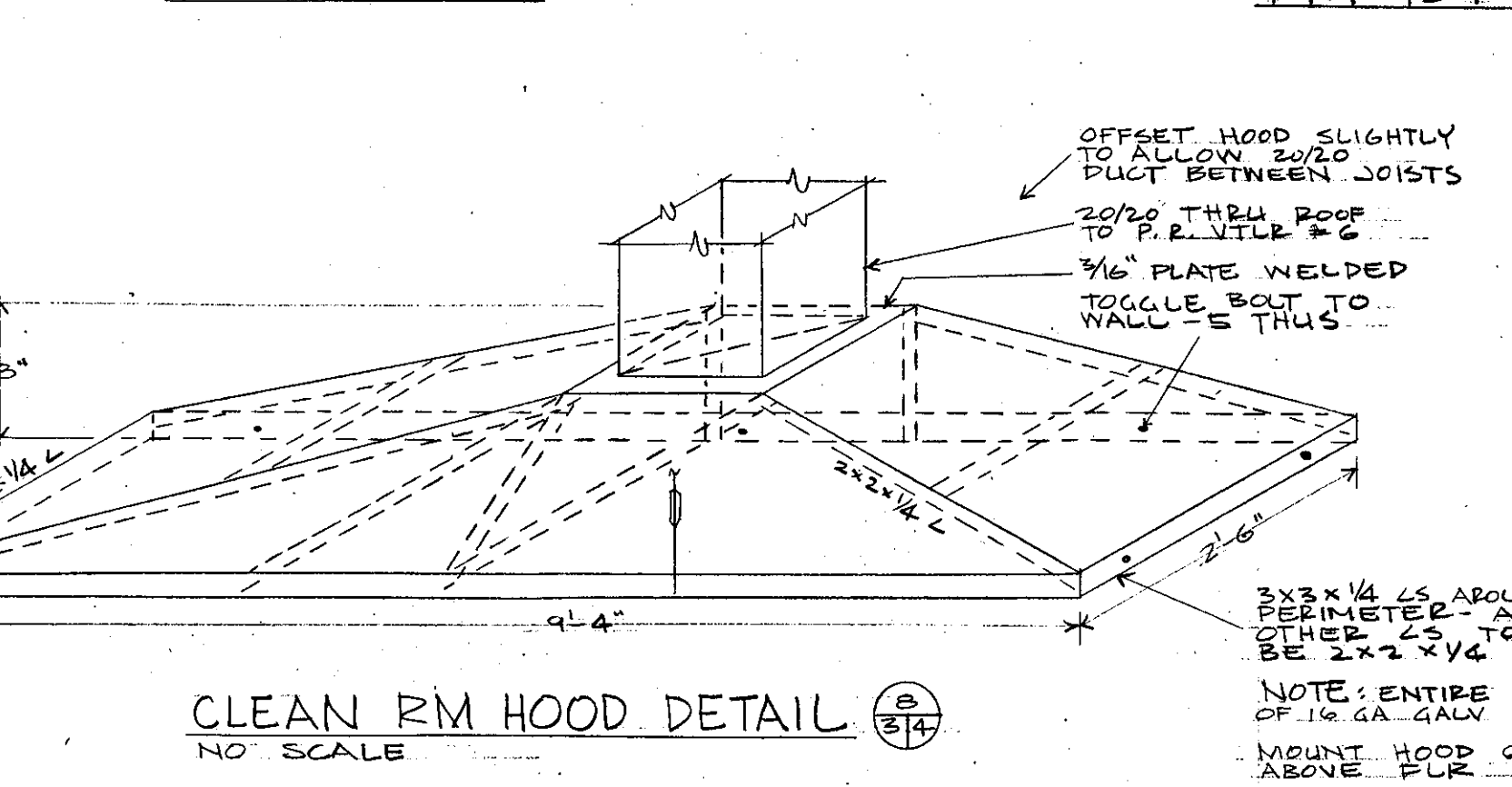
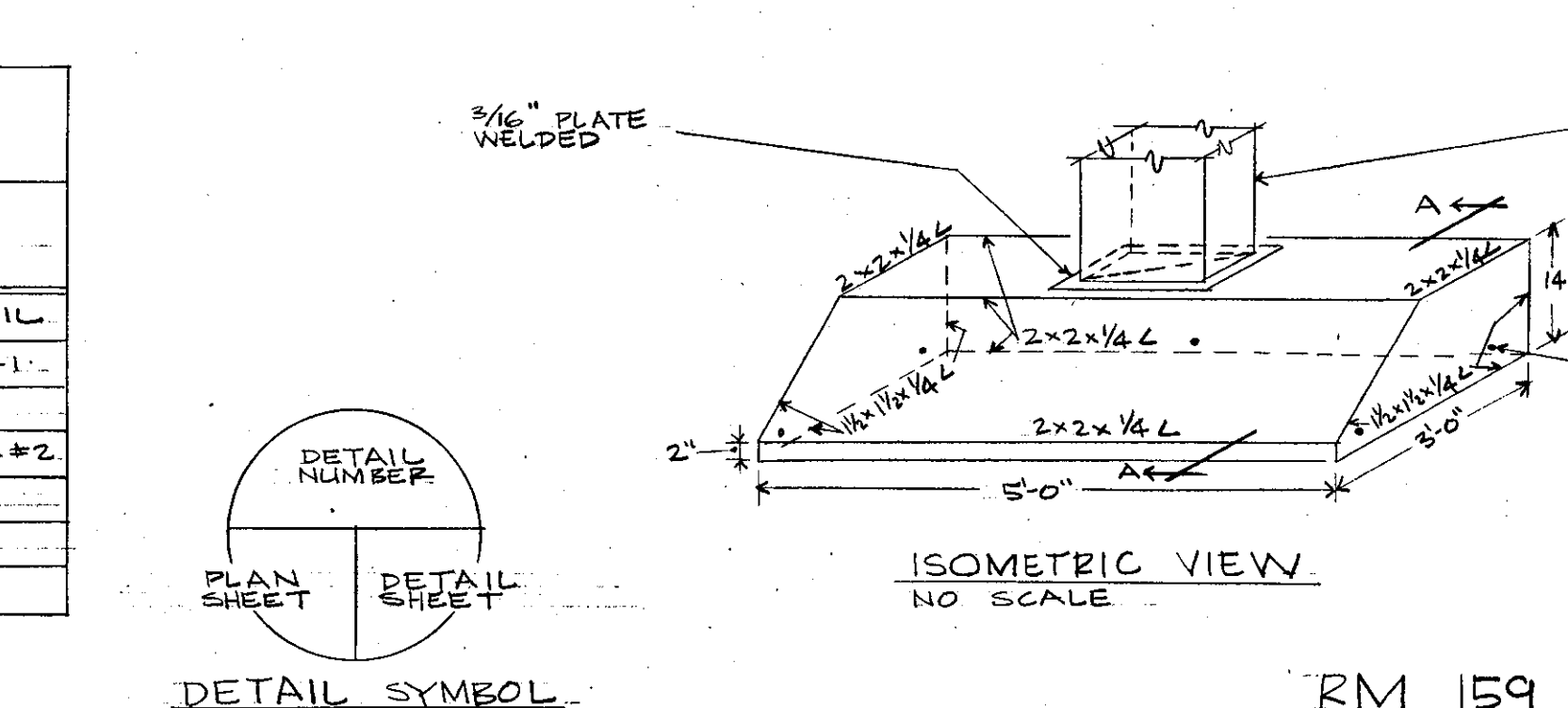
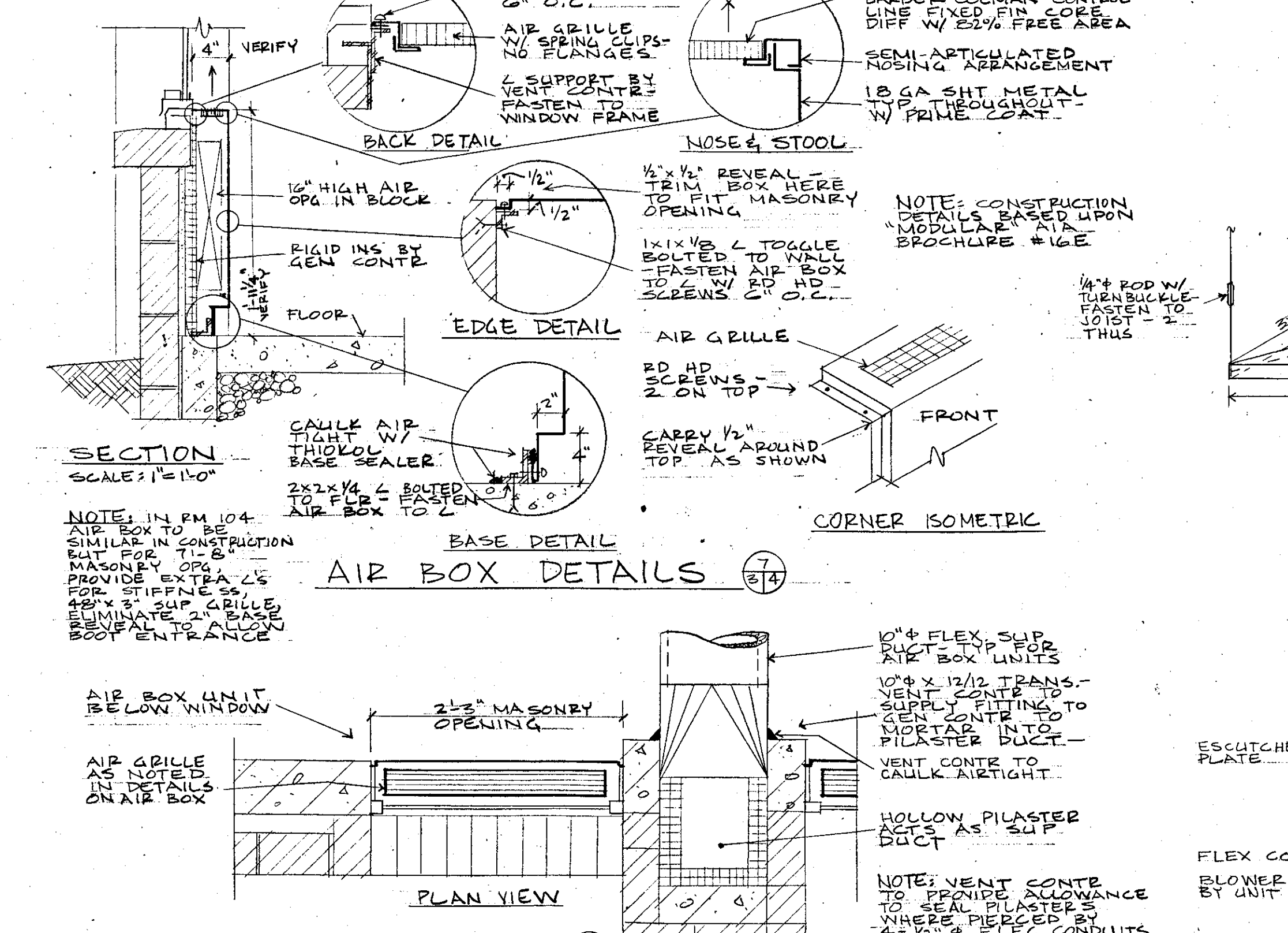
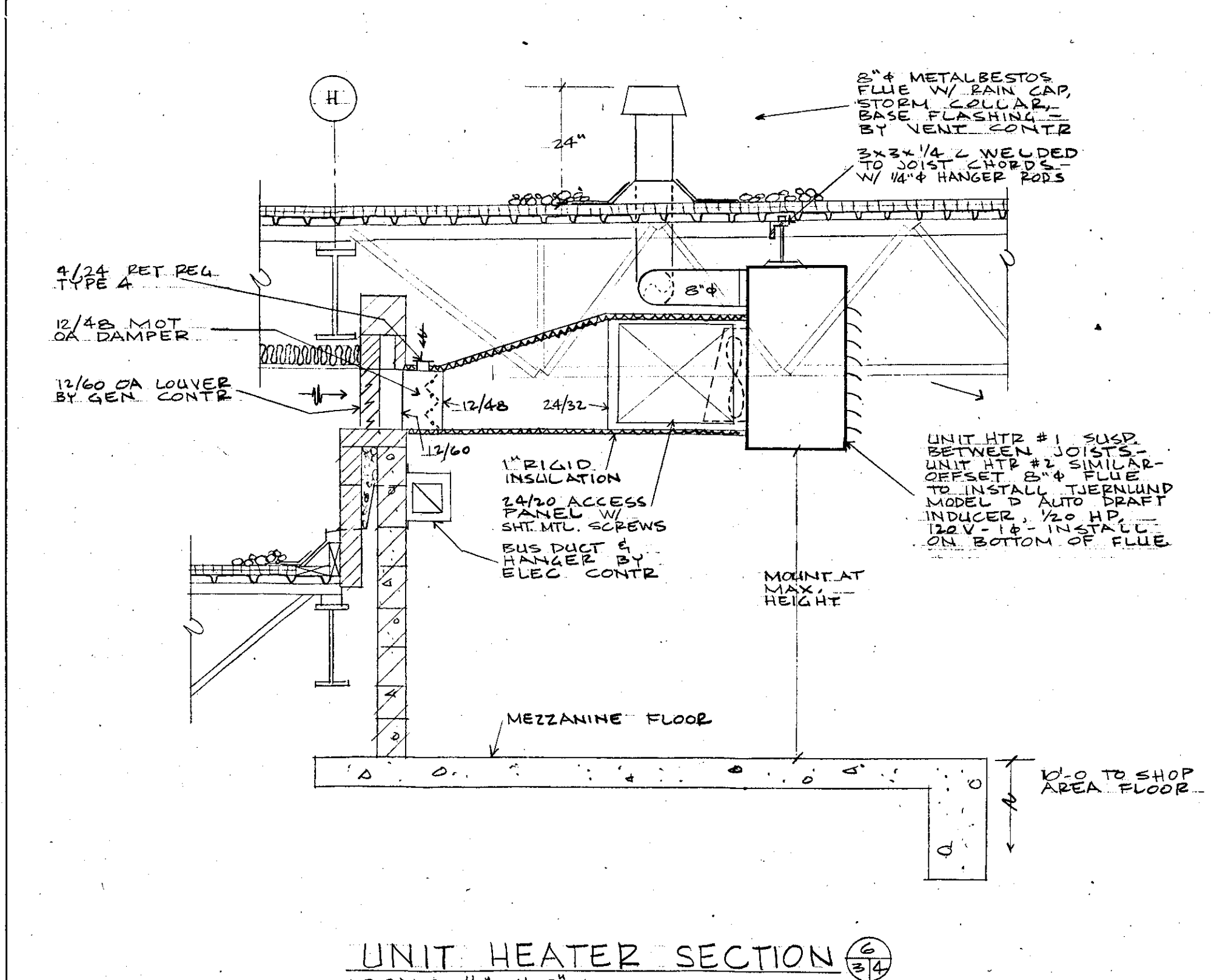


**NOTE FOR MZ UNITS**  
VENTILATION CONTRACTOR IS ADVISED TO PROVIDE THE ALLOWANCE FOR LARGE AREA TRANSITION ELBOWS ON DISCHARGE OF MZ UNITS, TURNING VANES, CONSIDERATION TO LIMITING DIMENSIONS. COORDINATION THESE AREAS WITH RELATED TRADES.

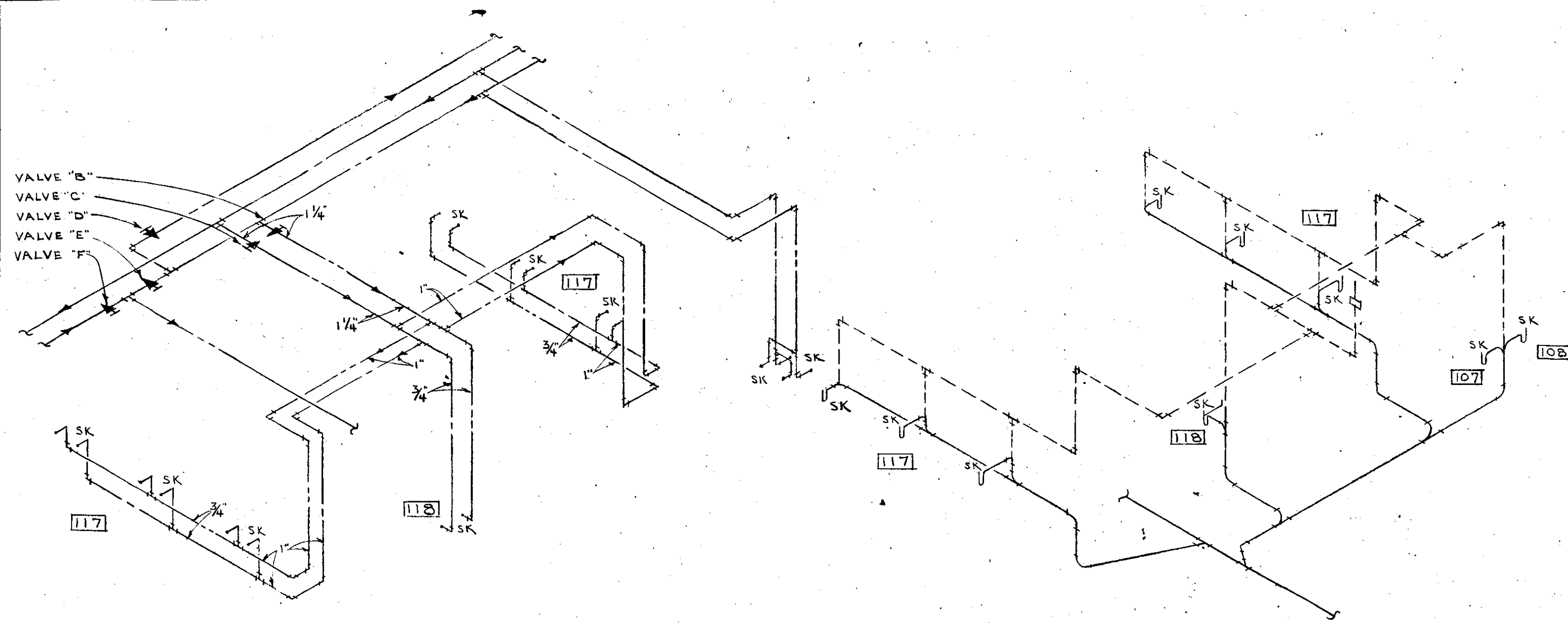
**EXHAUST FAN SCHEDULE**

UNIT DESIGNATION	LOCATED	SERVES	MANUFACTURER'S DESIGNATION	WHEEL DIAMETER	ROTATION	DISCHARGE	CFM #	OUTLET VEL. (FPM)	S.P. H <sub>2</sub> O	RPM	TYPE BEARINGS	ELECTRICAL CHARACTERISTICS	VIBRATION ISOLATORS	REMARKS
EF#1	AUTO SHOP	UNDER FLOOR CARBON MONOXIDE	CAR-MON CMB-2E	15"	CW	BOTTOM HORIZONTAL	2000	2140	3"	—	BALL	480-60-3 #	TYPE O	MOUNT ON SUSP. WOOD PLATFORM-SEE DETAIL
EF#2	AUTO SHOP	UNDER FLOOR CARBON MONOXIDE	CAR-MON CMB-3	20"	CCW	—	3700	1930	3"	—	—	—	—	INTERLOCK W/ UNIT HTR#1
EF#3	FARM SHOP	OVERHEAD CARBON MONOXIDE	CAR-MON CMB-20	18 1/2"	CW	—	1600	1730	3"	—	—	—	—	INTERLOCK W/ UNIT HTR#2
EF#4	FARM SHOP	OVERHEAD CARBON MONOXIDE	CAR-MON CMB-30	18 1/2"	CW	—	3200	1430	3"	—	—	—	—	INTERLOCK W/ UNIT HTR#2
EF#5	FARM SHOP	GAS TREATMENT AREA	CAR-MON CMD-13	10 1/2"	CW	—	1300	1870	3"	—	—	—	—	—
EF#6	MACHINE SHOP	WELDING AREA	CAR-MON CMB-B	10 1/2"	CCW	—	1050	1400	1 3/4"	—	—	—	—	—

\* CFM REQUIRED FOR SYSTEM-ACTUAL CFM WILL BE EQUAL OR GREATER THAN CFM SCHEDULED

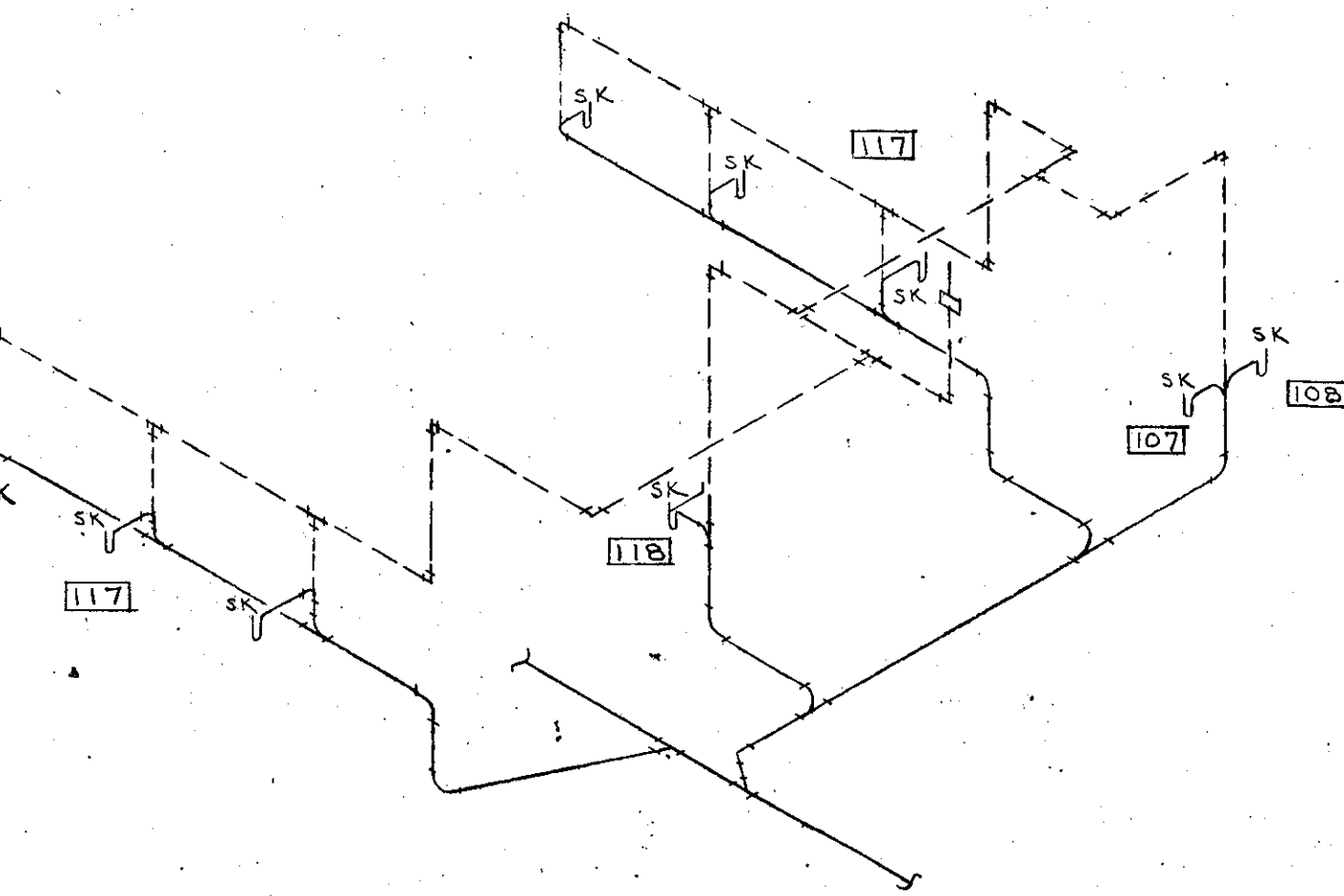






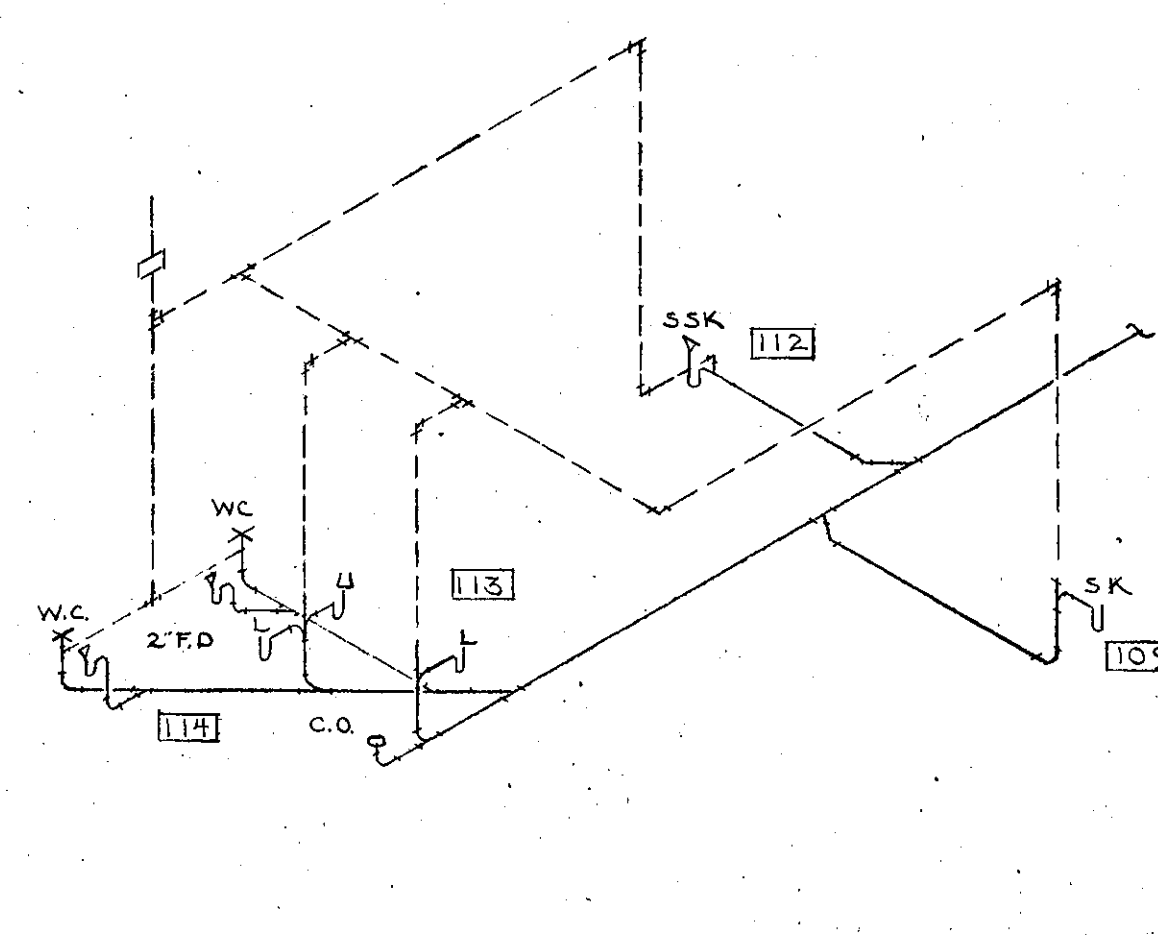
HOT & COLD WATER RISER DIAGRAM  
COSMETOLOGY RM. 117

NO SCALE



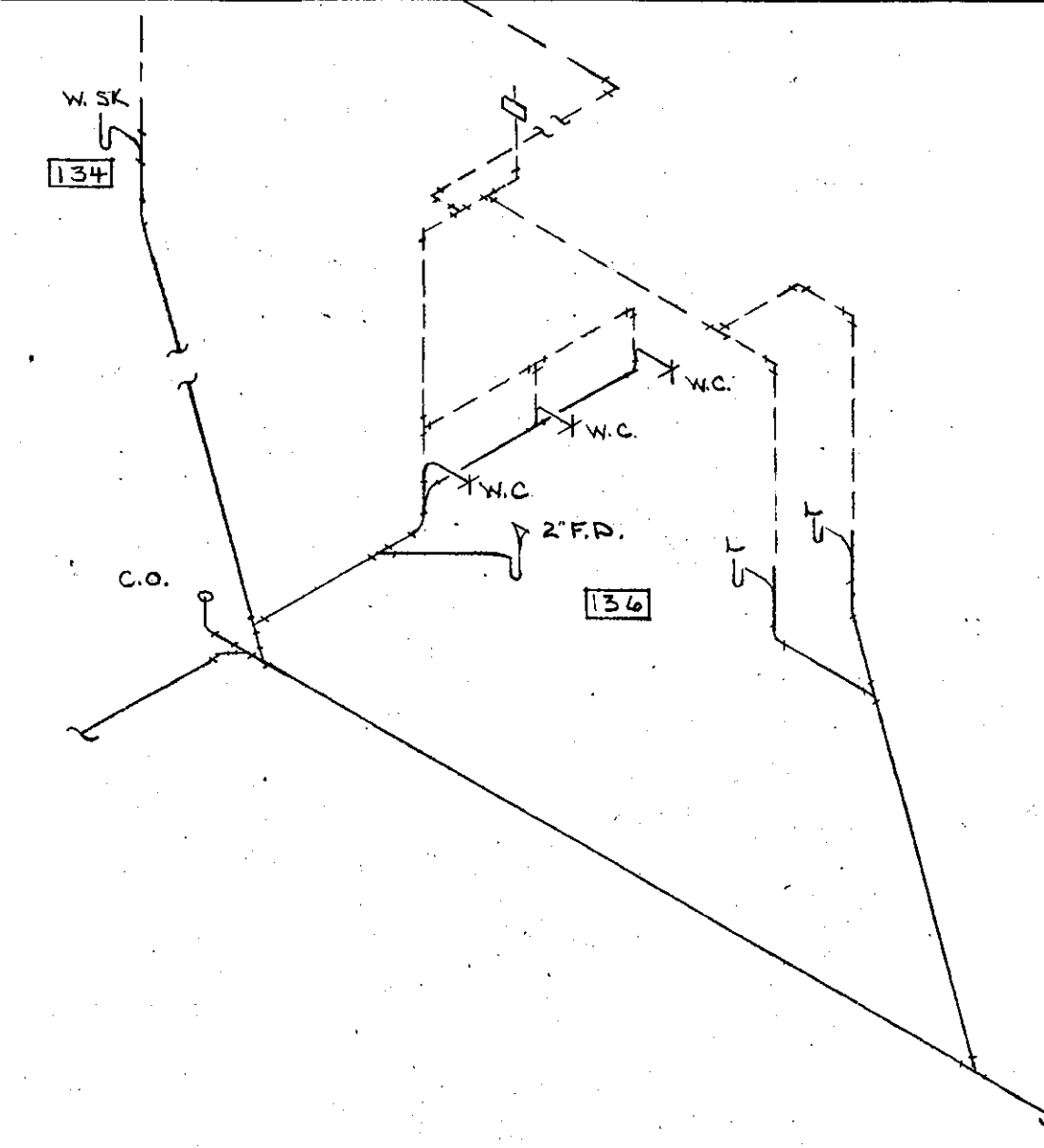
WASTE & VENT RISER DIAGRAM  
COSMETOLOGY RM. 117

NO SCALE



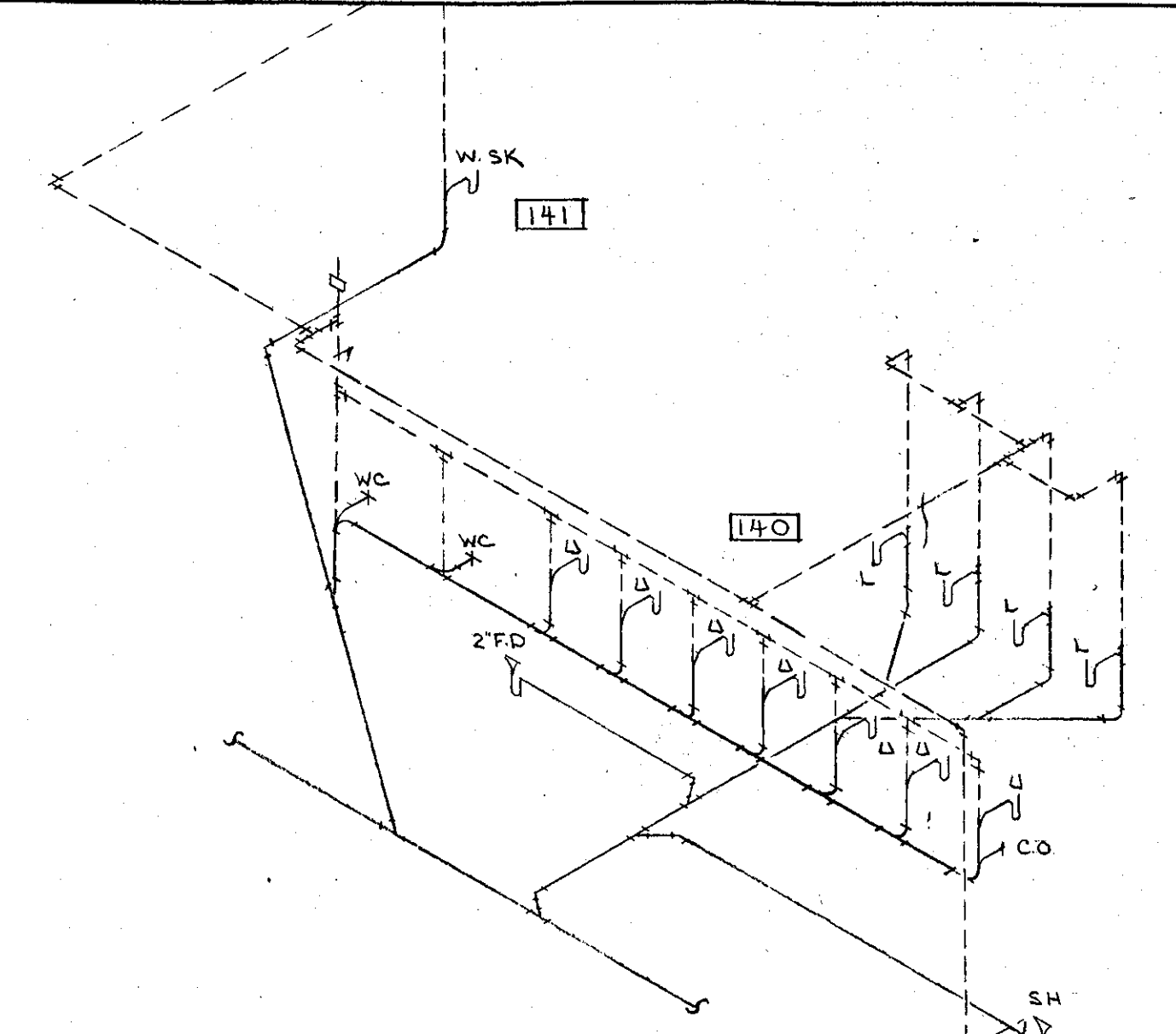
WASTE & VENT RISER DIAGRAM  
MEN'S & WOMEN'S TOILET RM. 113 & 114

NO SCALE



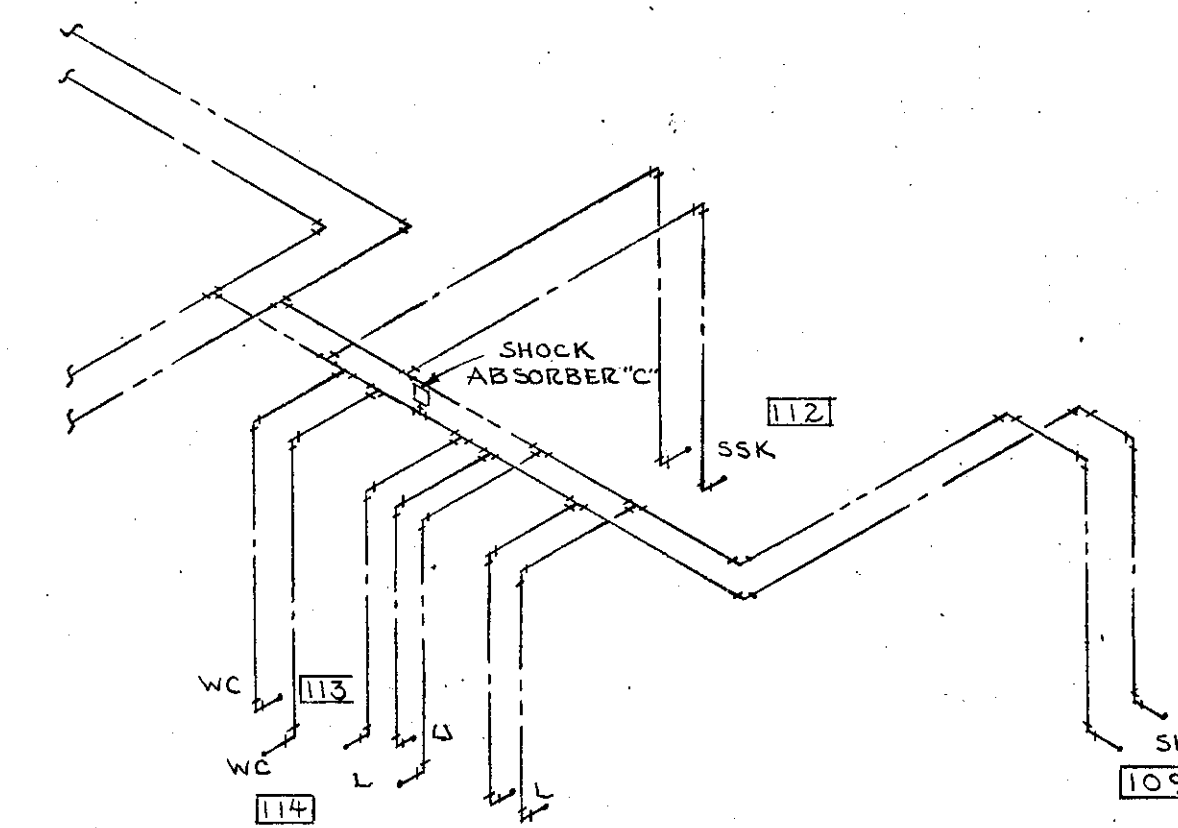
WASTE & VENT RISER DIAGRAM  
WOMEN'S TOILET RM. 136

NO SCALE



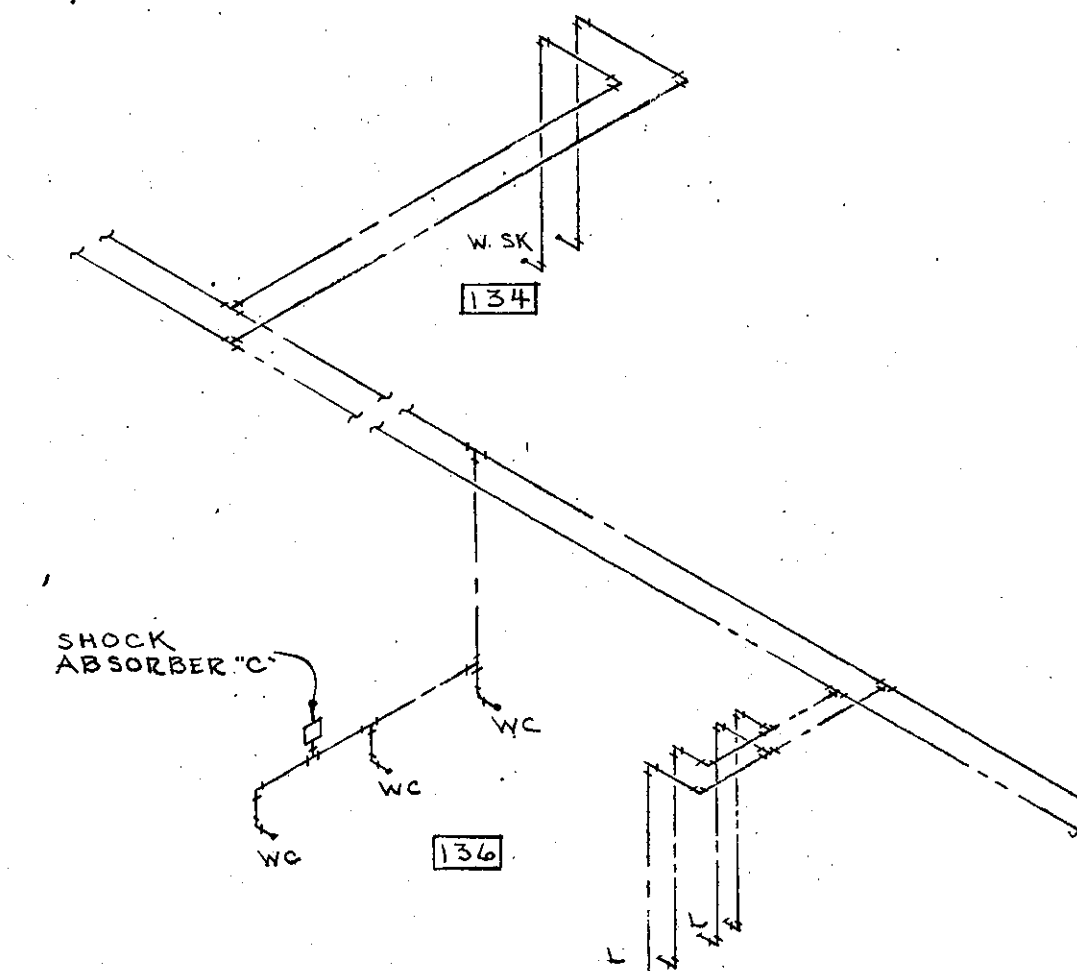
WASTE & VENT RISER DIAGRAM  
MEN'S TOILET RM. 140

NO SCALE



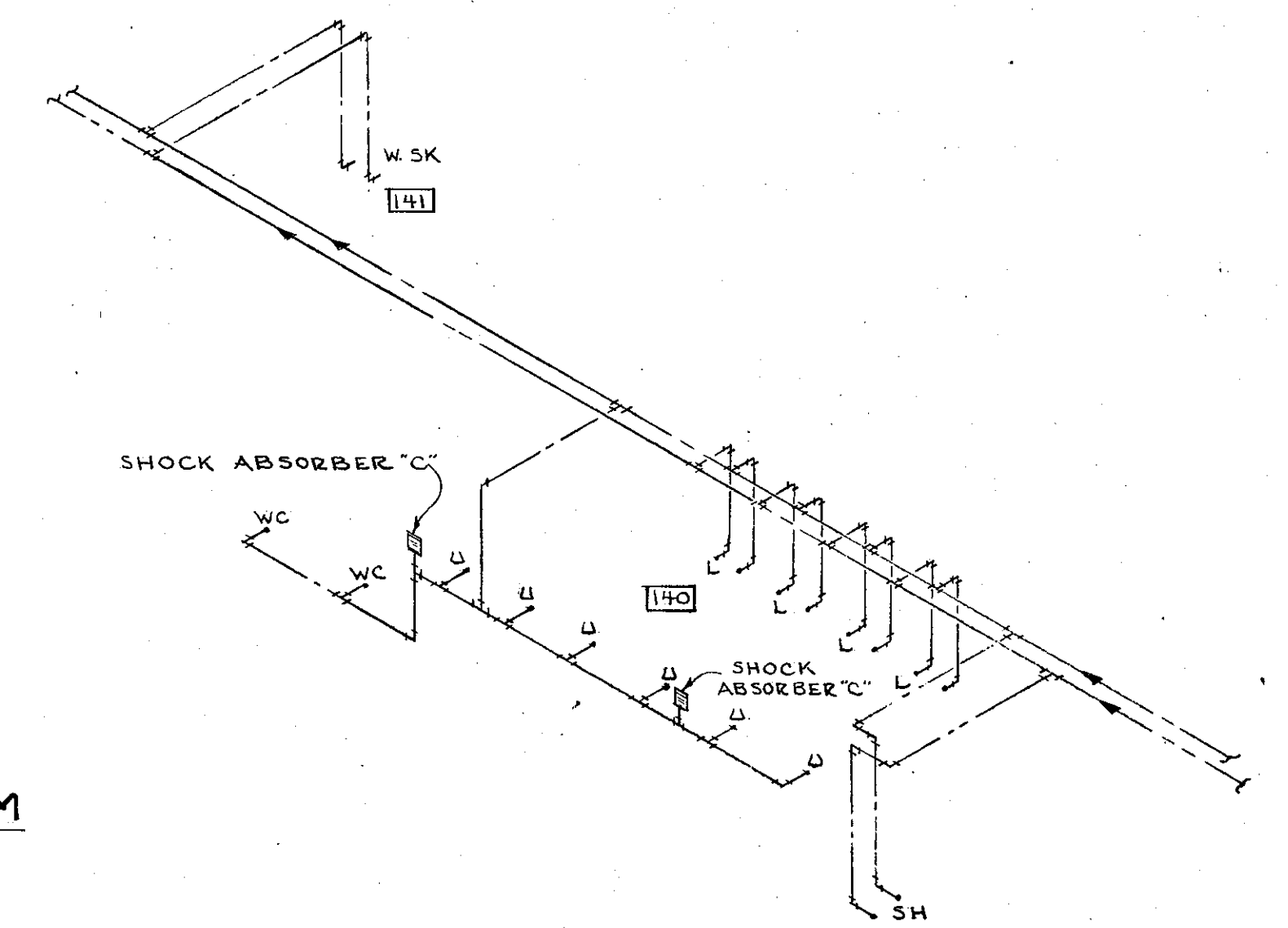
HOT & COLD WATER RISER DIAGRAM  
MEN'S & WOMEN'S TOILET RM. 113 & 114

NO SCALE



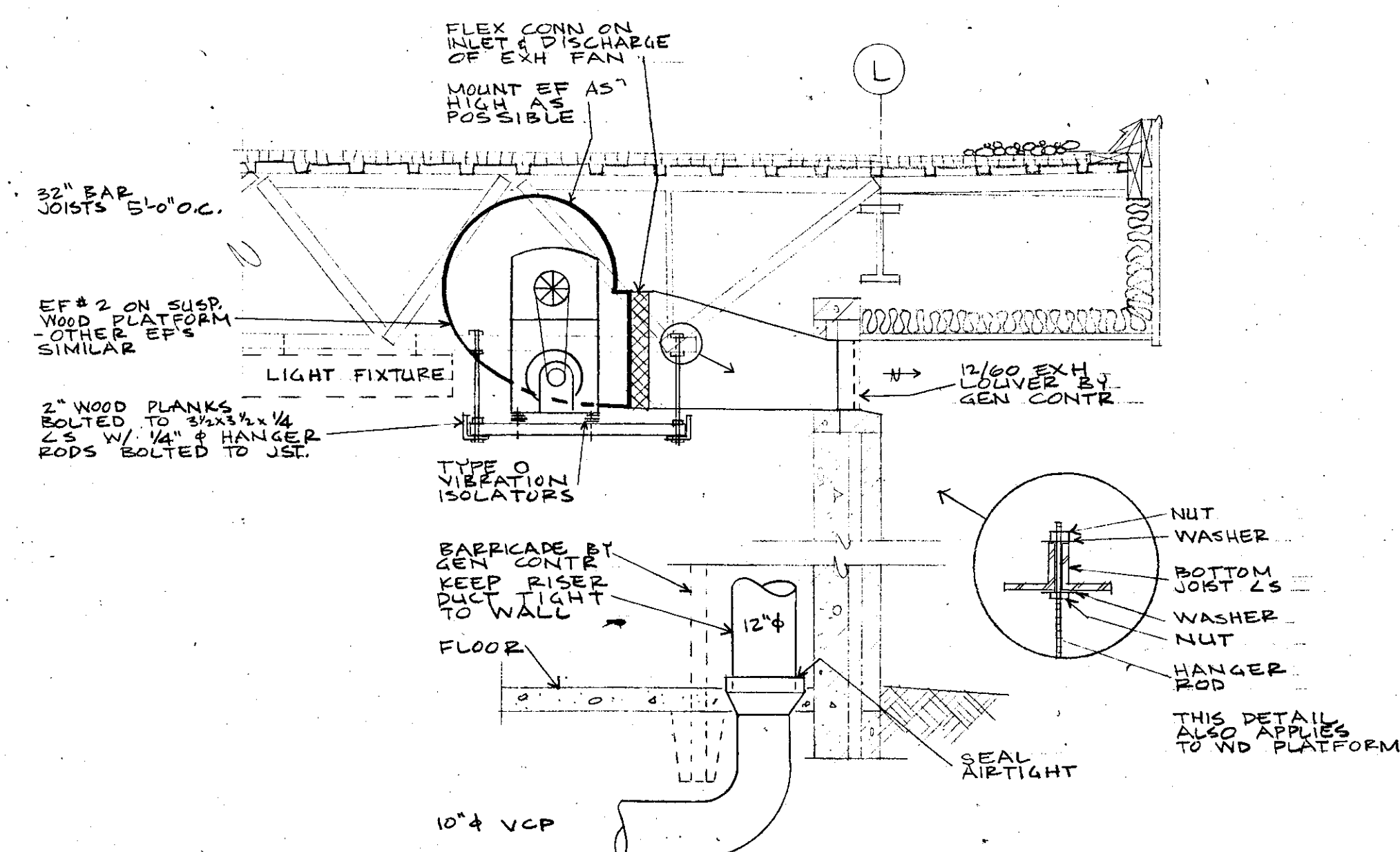
HOT & COLD WATER RISER DIAGRAM  
WOMEN'S TOILET RM. 136

NO SCALE

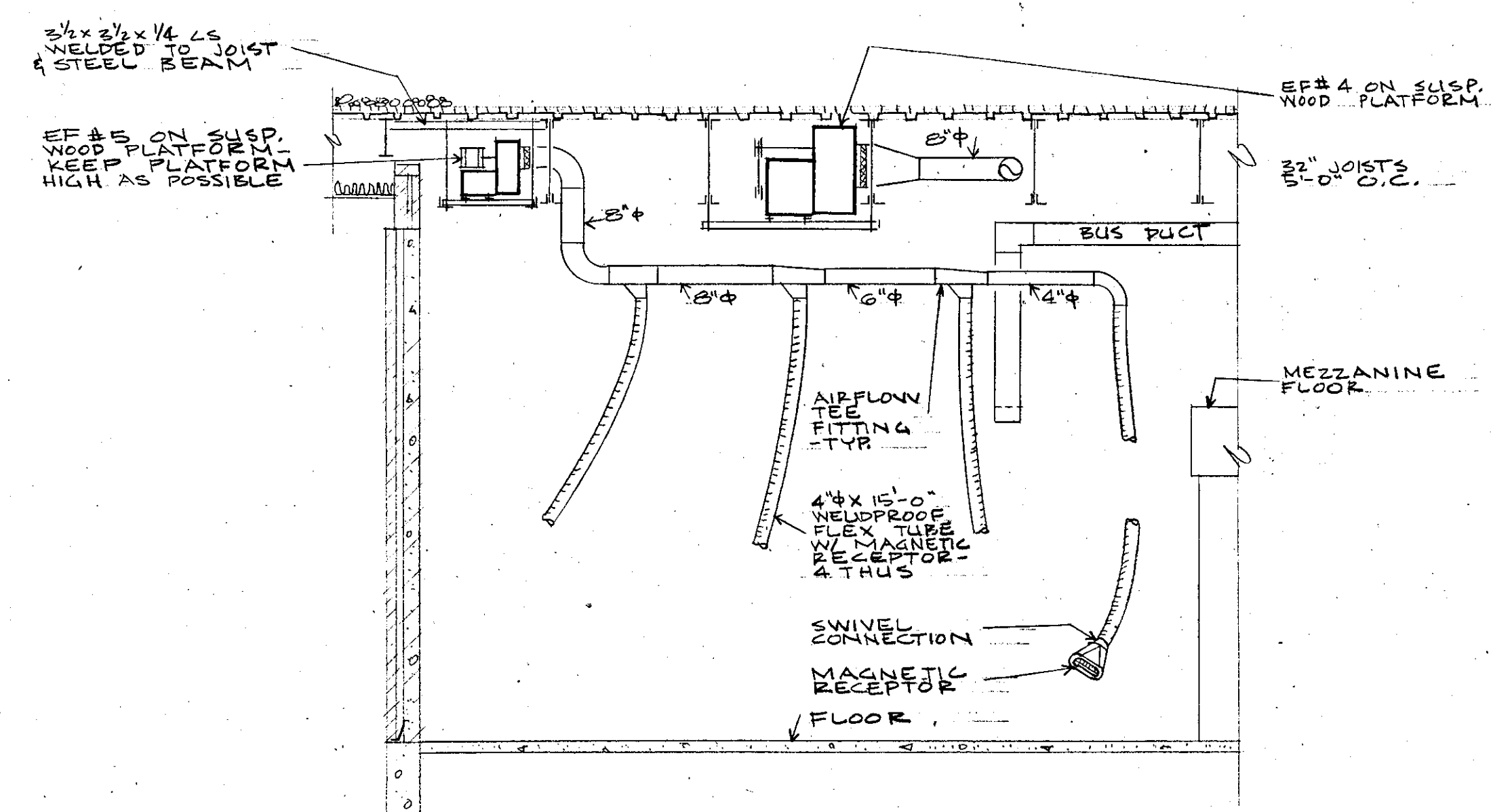


HOT & COLD WATER RISER DIAGRAM  
MEN'S TOILET RM. 140

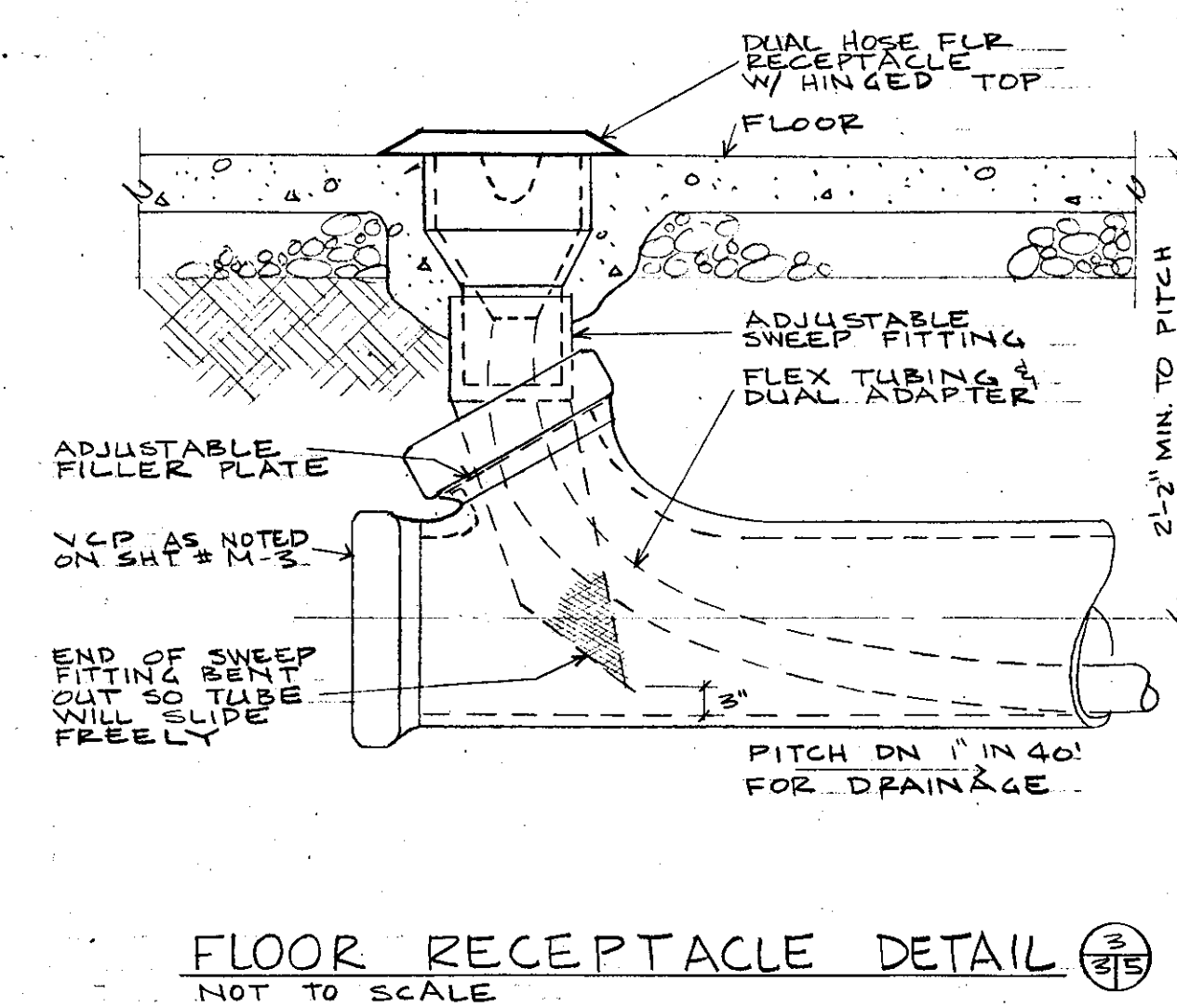
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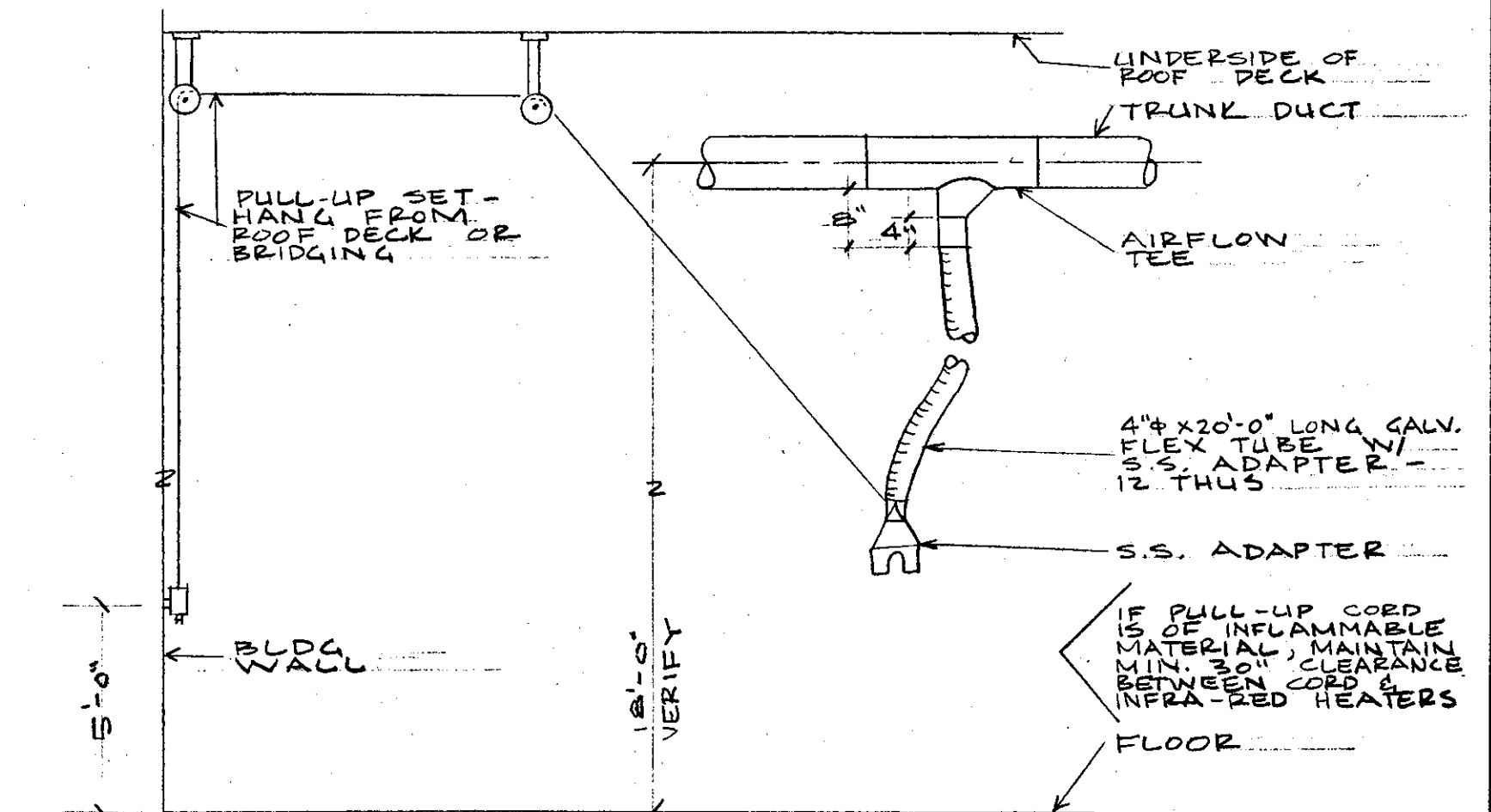
EF # 2 DETAIL  
SCALE: 1/2" = 1'-0"



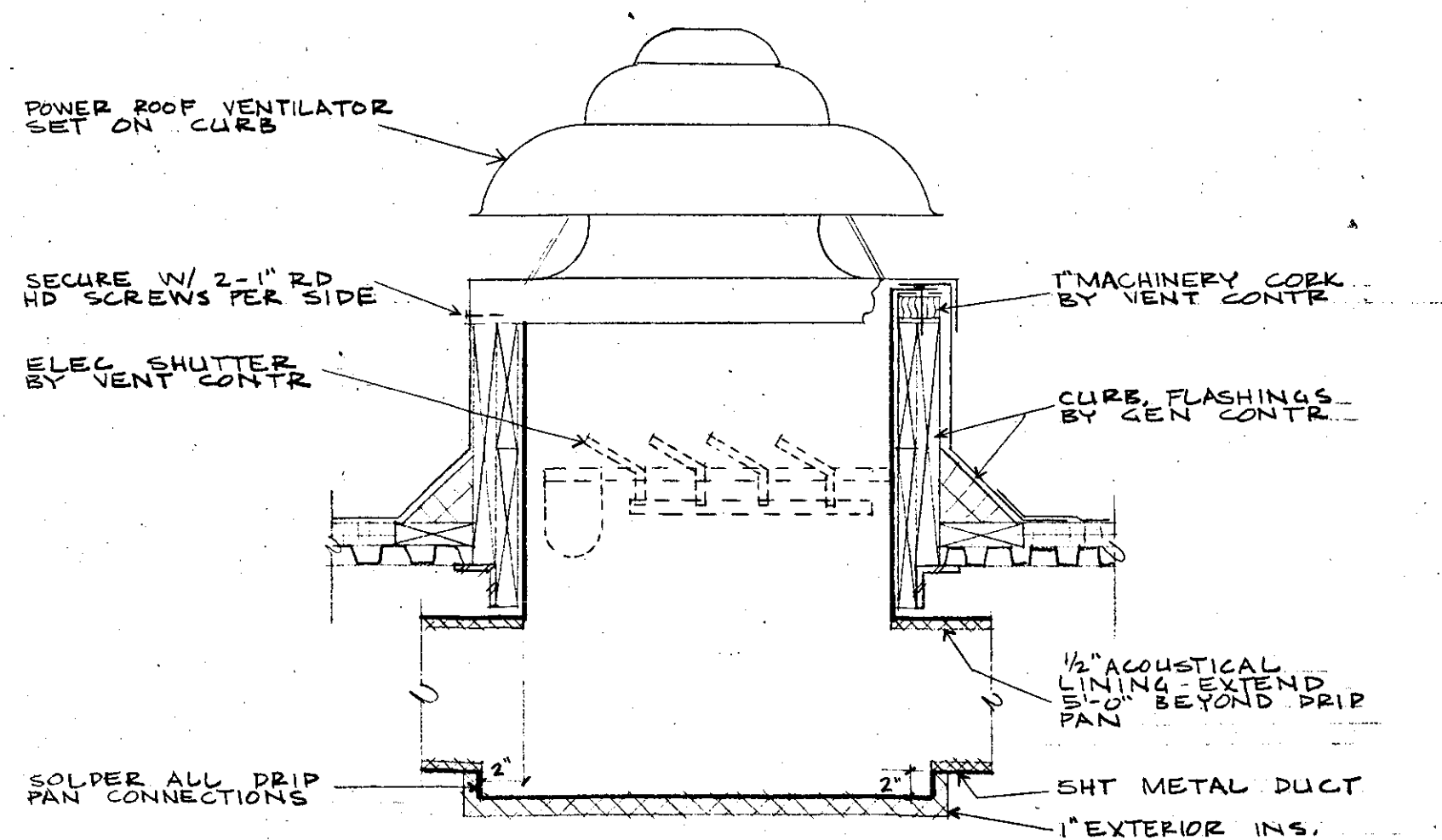
ELEVATION-WELDING AREA  
SCALE: 1/4" = 1'-0"



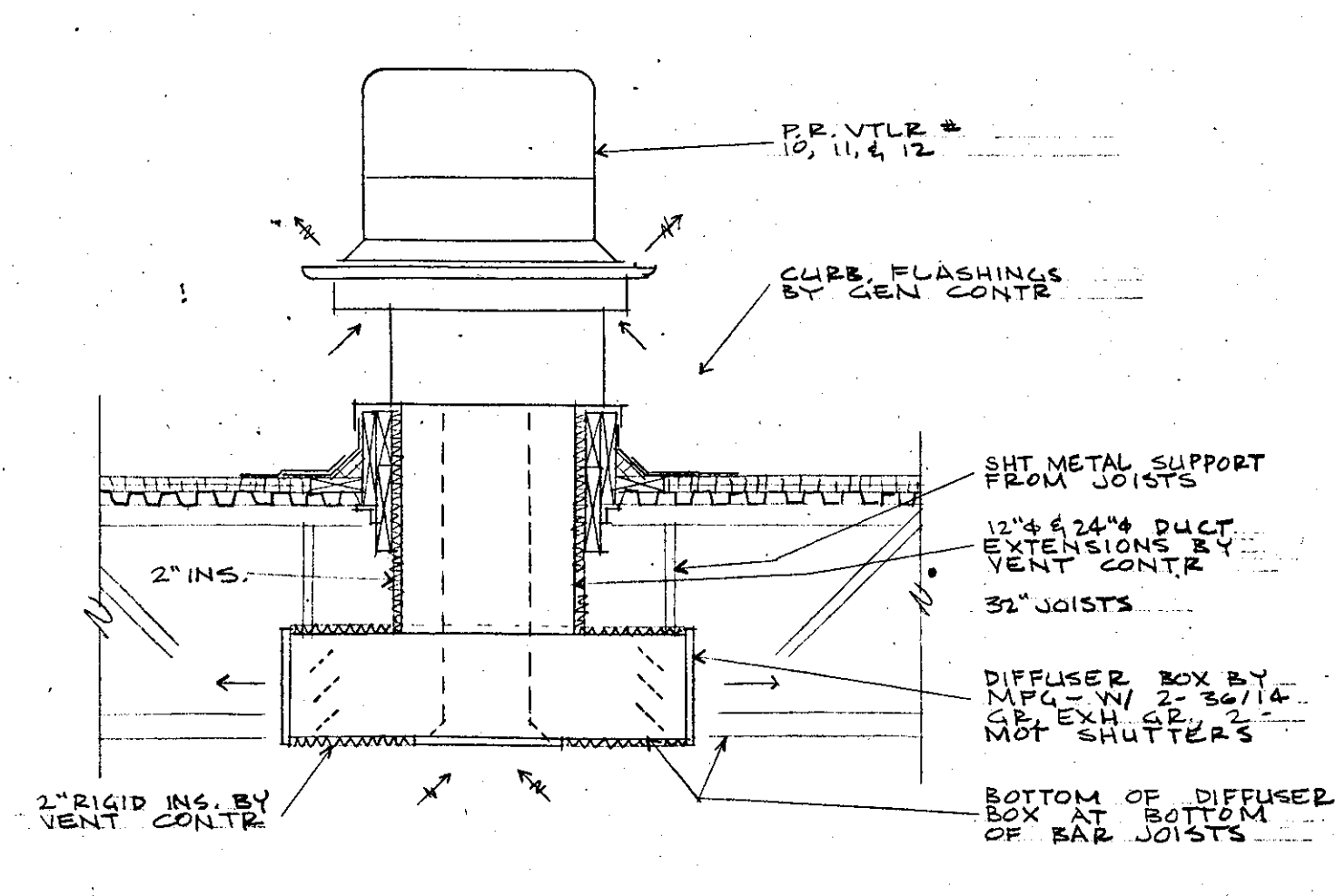
FLOOR RECEPTACLE DETAIL  
NOT TO SCALE



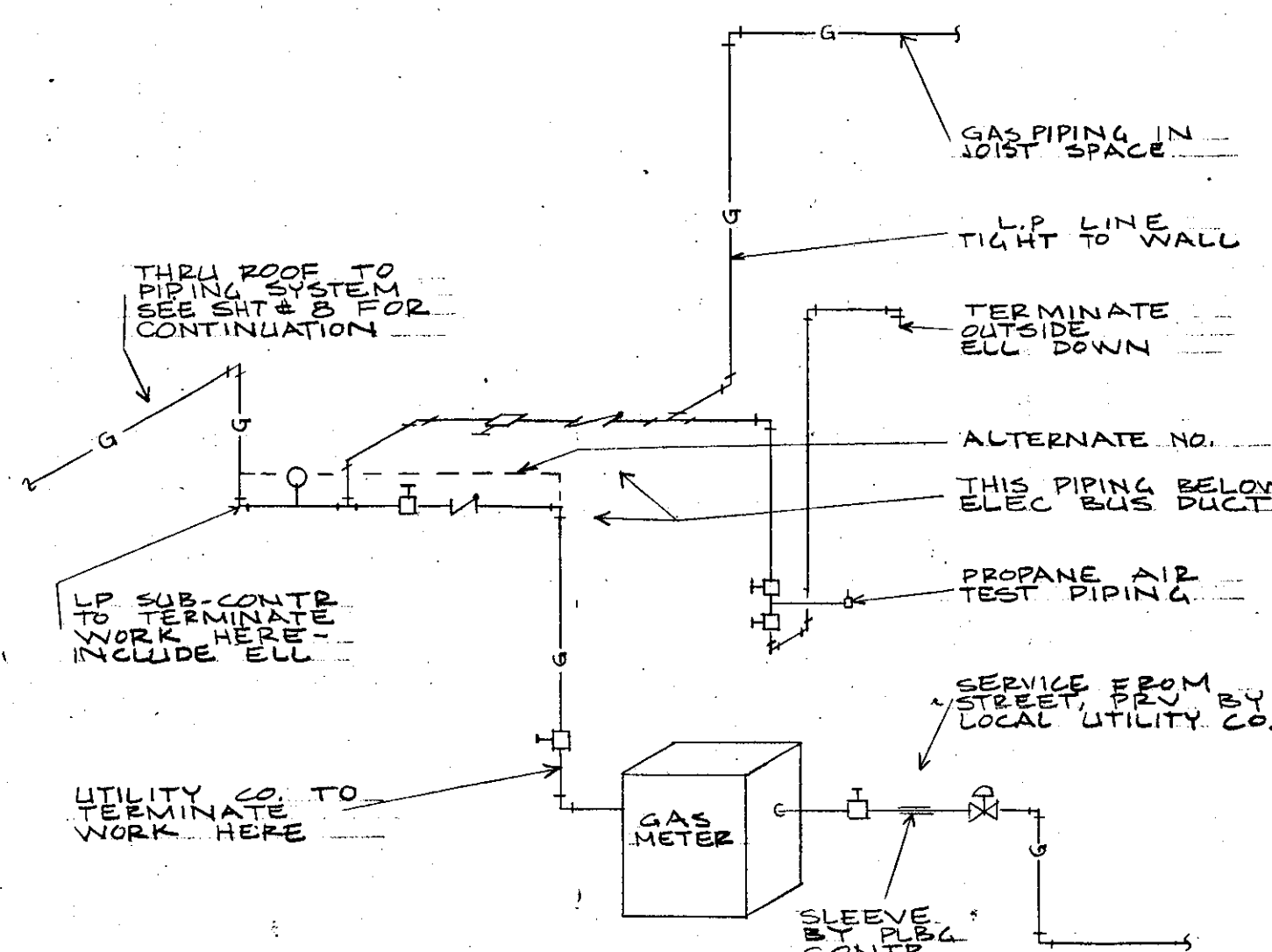
ELEVATION-OVERHEAD EXHAUST  
NO SCALE



TYPICAL P.R. VTLR DETAIL  
NOT TO SCALE



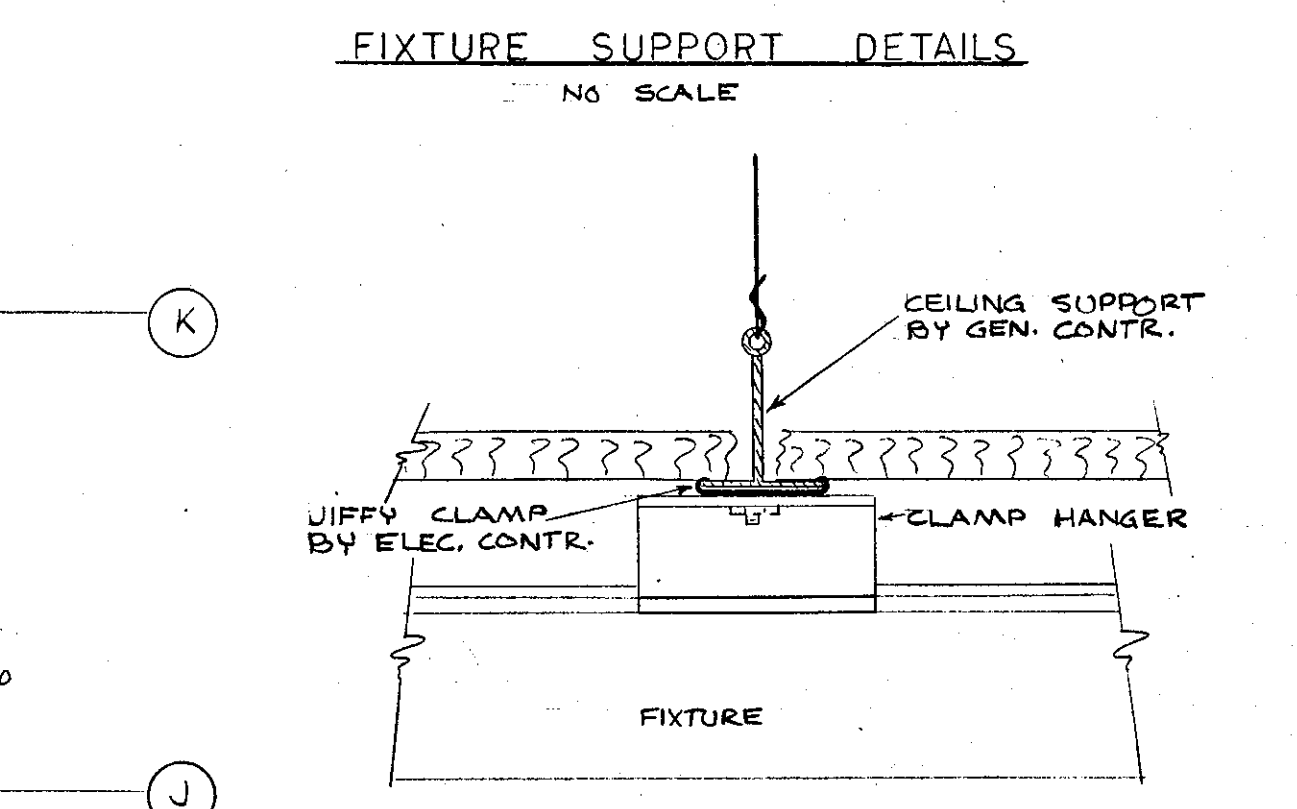
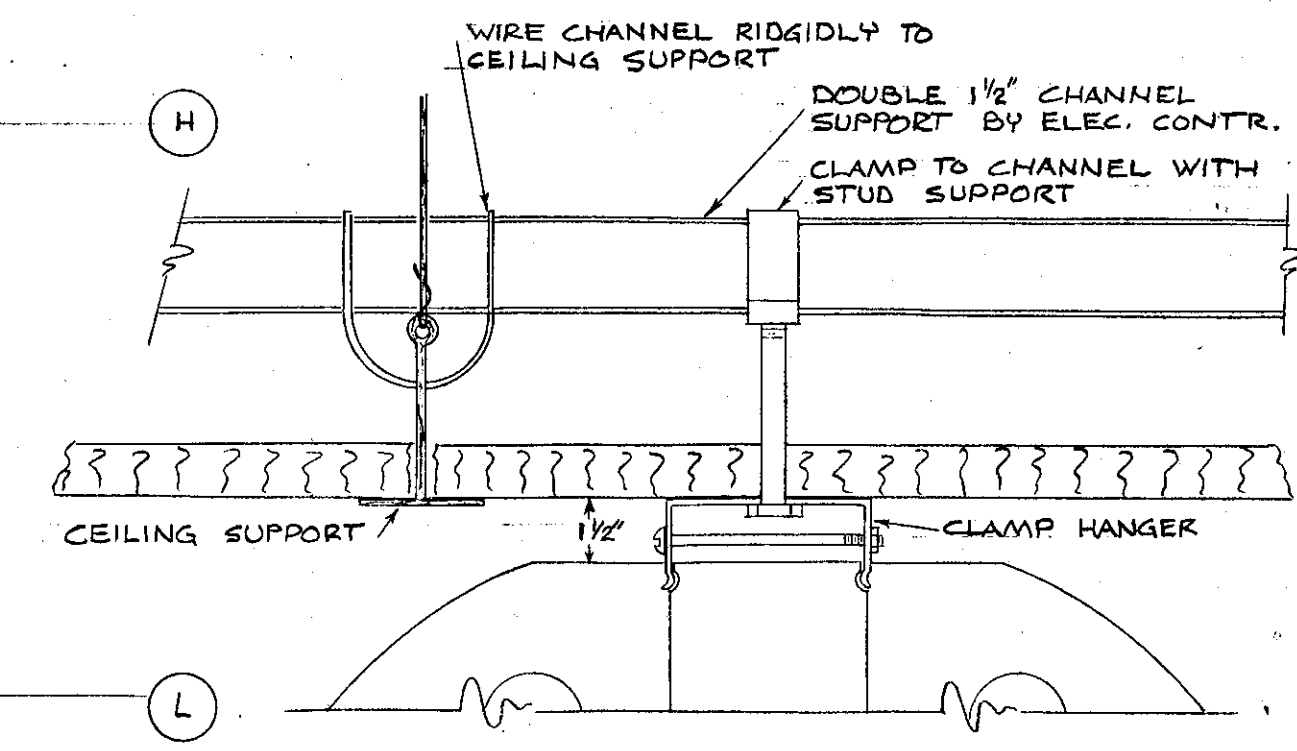
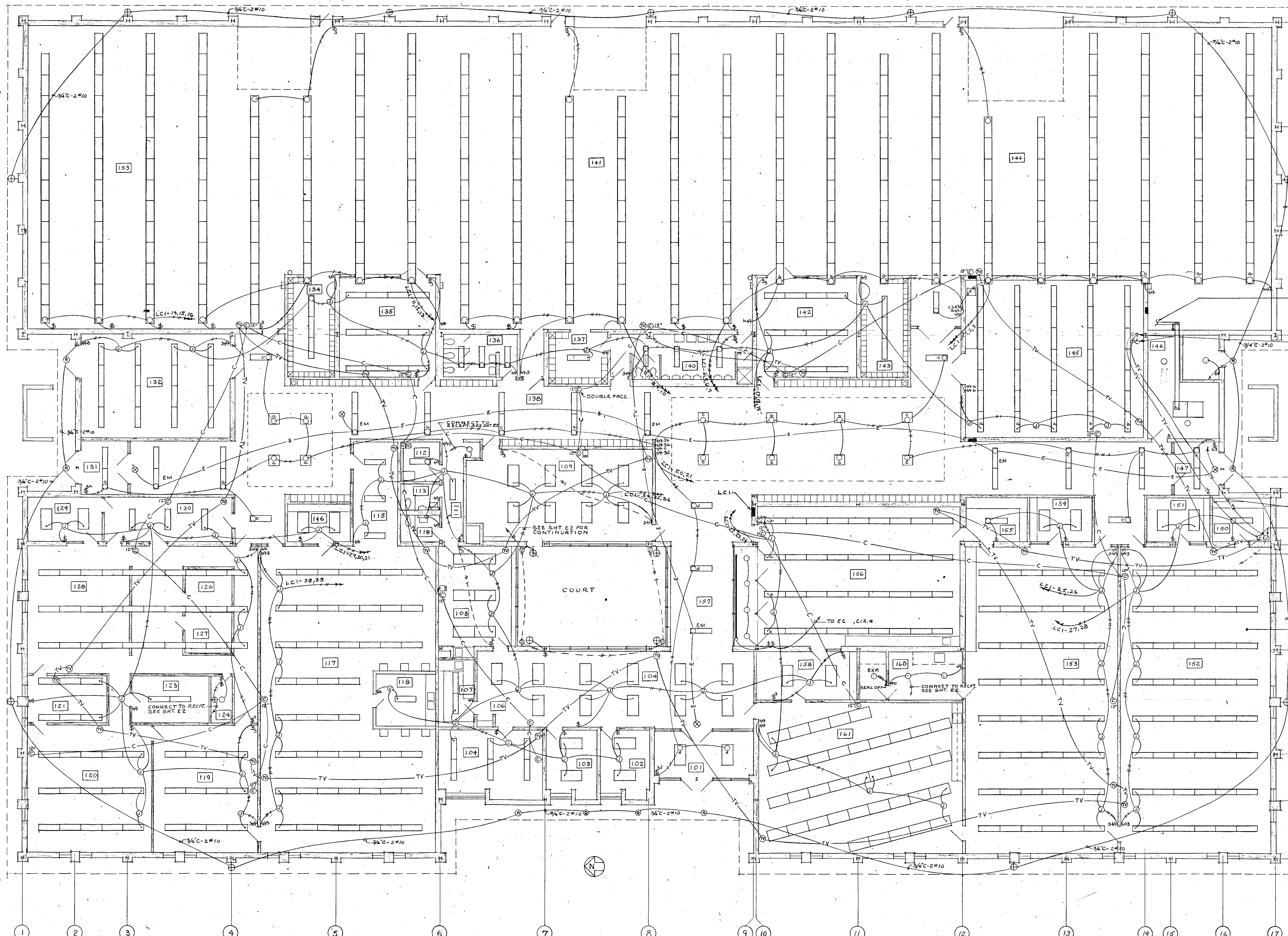
P.R. VTLR # 10, 11, & 12 DETAIL  
SCALE: 1/2" = 1'-0"



GAS PIPING ISOMETRIC  
NO SCALE



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



FOR CONTINUATION OF BUS-DUCT SEE MEZZANINE PLAN ABOVE.

RUN CONDUITS UPON SHOP SIDE OF WALL AND THROUGH WALL AT A POINT 3'-0\"/>

1\"/>

6\"/>

1\"/>

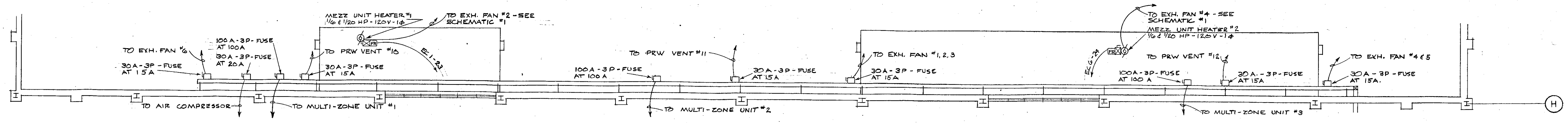
ALL LIGHTING FIXTURES IN THIS AREA MUST BE EQUIPPED WITH RADIO NOISE SUPPRESSORS.

NOTE: WHERE AIR SHAFTS APPEAR IN COLUMNS THE ELECTRICAL CONTRACTOR SHALL NOT INSTALL CONDUIT INTO OR THROUGH THESE SHAFTS.

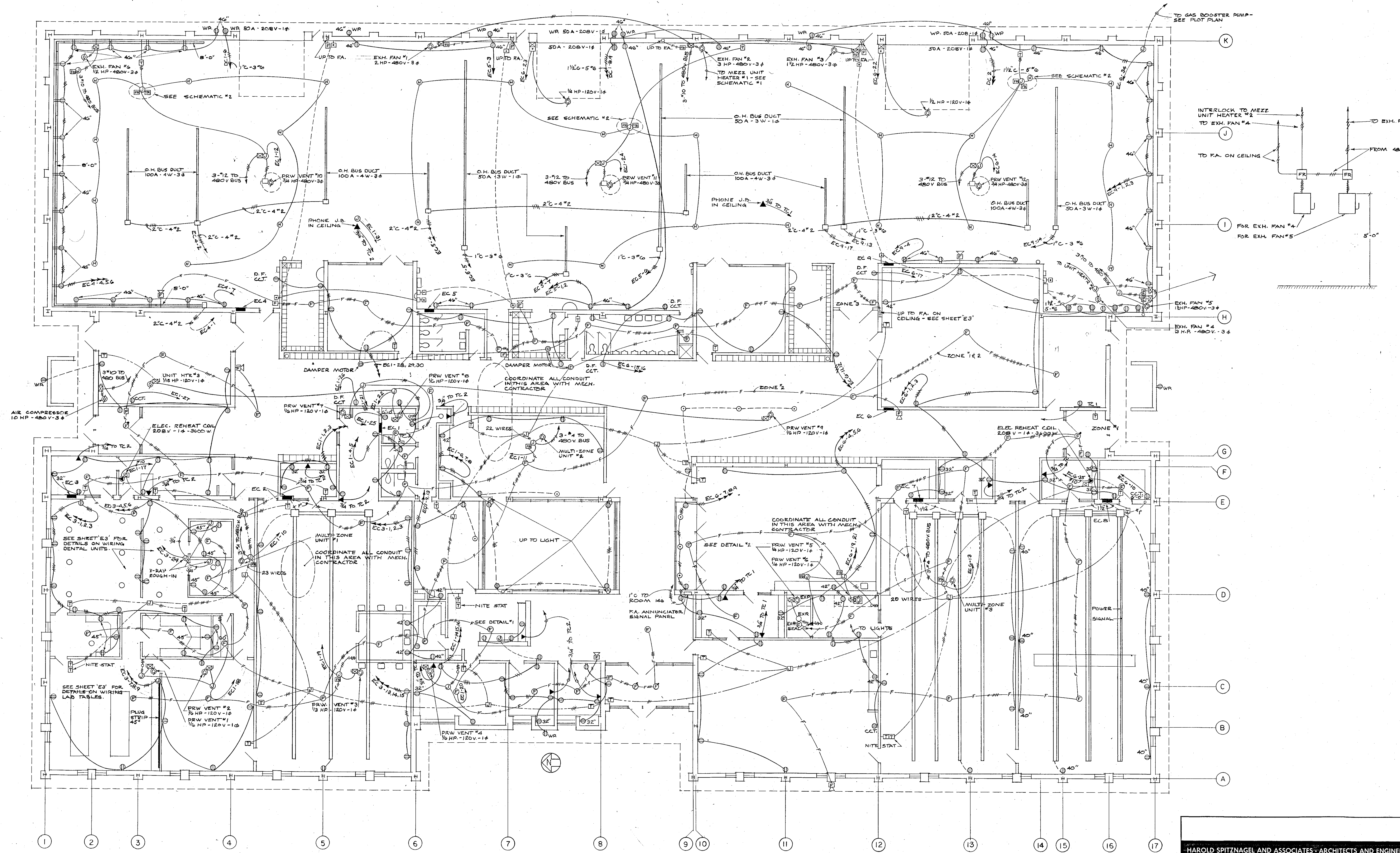
ELECTRICAL FLOOR PLAN  
LIGHTING, CLOCK SYSTEM AND TV SYSTEM  
SCALE: 1/8" = 1'-0"

PROJECT	
DATE	
DRAWN	
CHECKED	
HAROLD SPITZNAGEL AND ASSOCIATES - ARCHITECTS AND ENGINEERS 1800 SOUTH SUMMIT AVENUE - SIOUX FALLS, SOUTH DAKOTA	





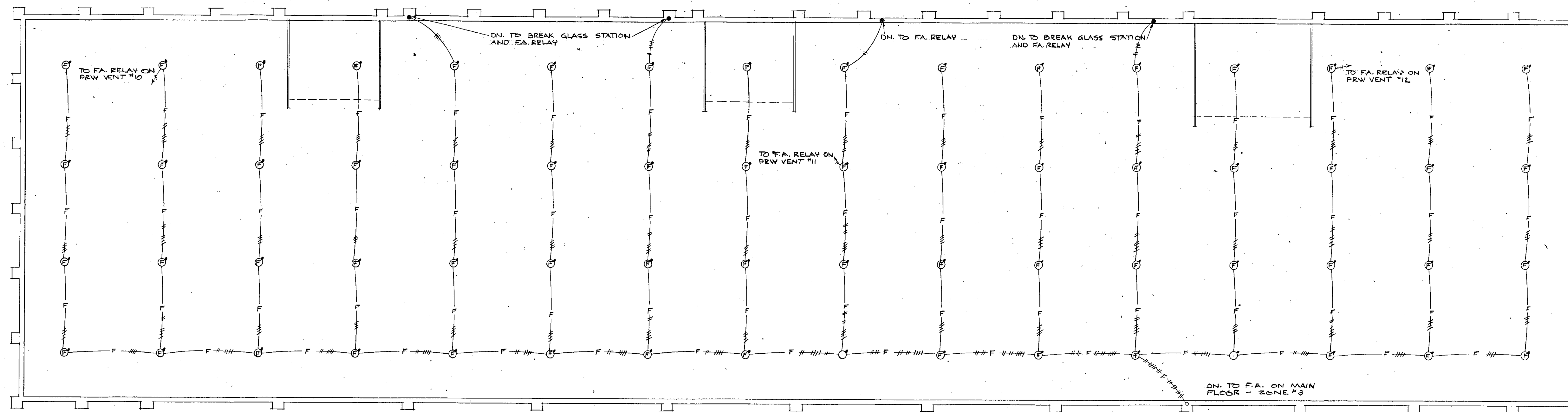
**ELECTRICAL MEZZANINE FLOOR PLAN**  
SCALE 1/8" = 1'-0"



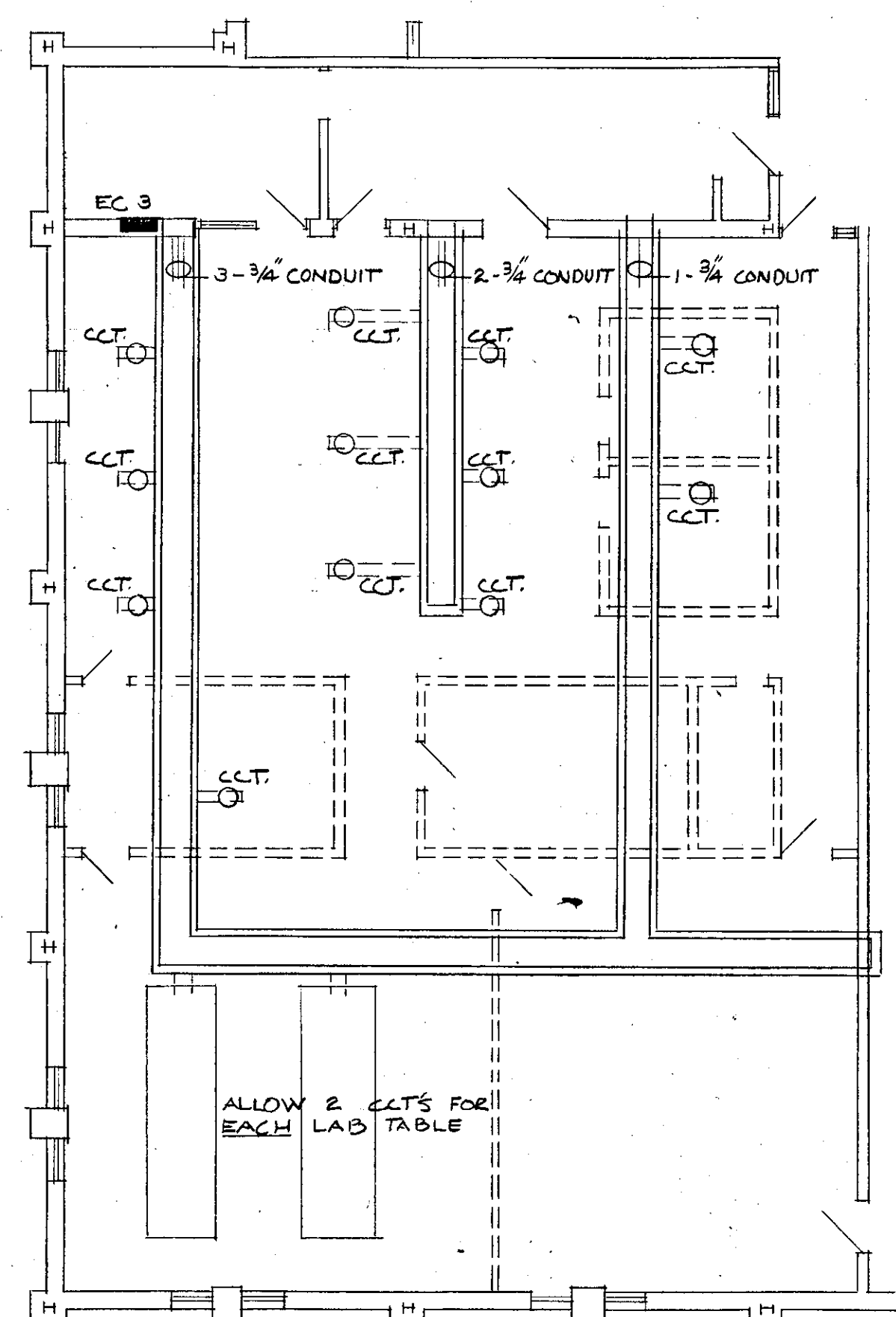
PROJECT	
DATE	
DRAWN	
CHECKED	

**HAROLD SPITZNAGEL AND ASSOCIATES - ARCHITECTS AND ENGINEERS**  
1800 SOUTH SUMMIT AVENUE - SIOUX FALLS, SOUTH DAKOTA

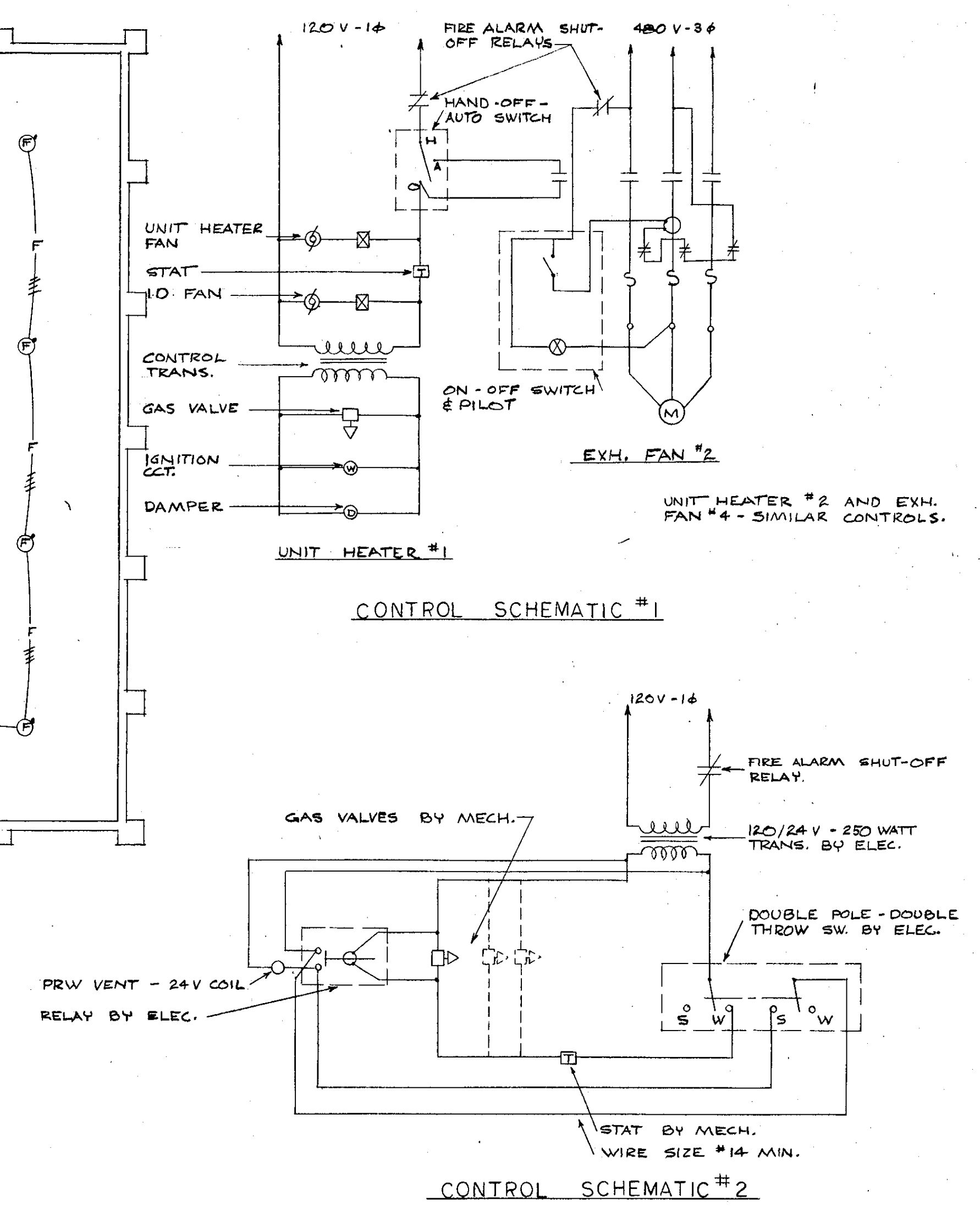
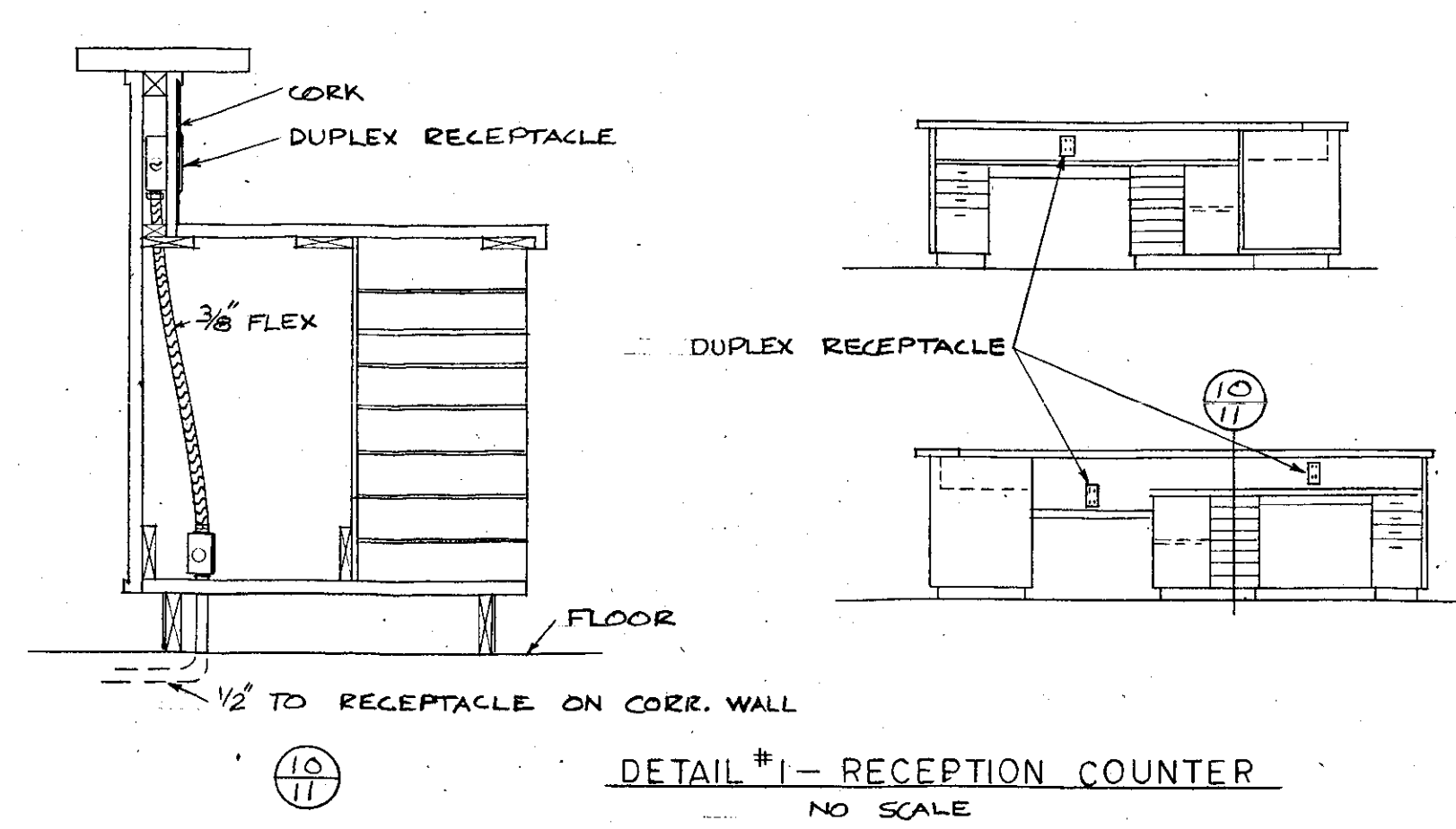
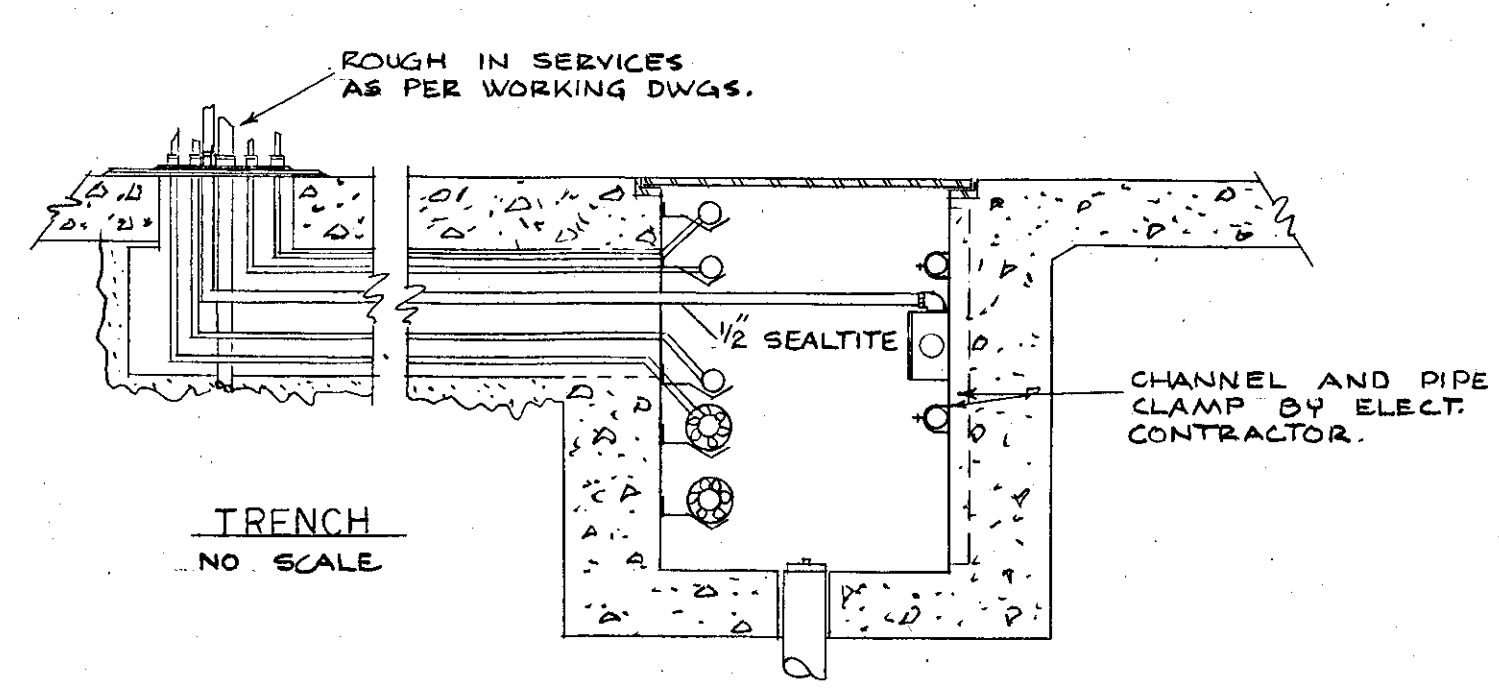




SHOP FIRE ALARM PLAN  
SCALE 1/8" = 1'-0"



DENTAL TECH. PLAN  
SCALE 1/8" = 1'-0"



ELECTRICAL SYMBOLS	
	CEILING OUTLET, CAPITAL LETTER INDICATES FIXTURE TYPE, SMALL LETTER INDICATES SWITCHING.
	BRACKET LIGHT
	EXIT LIGHT
	RECESSED FIXTURE
	FLUORESCENT FIXTURE
	SINGLE POLE SWITCH
	THREE OR FOUR WAY SWITCH
	SWITCH AND PILOT
	DUPLEX RECEPTACLE
	WEATHERPROOF RECEPTACLE
	50 AMPERE HEAVY DUTY RECEPT.
	FLUSH FLOOR RECEPTACLE
	SPECIAL PURPOSE OUTLET
	PLUG-STRIP
	JUNCTION BOX
	MOTOR CONNECTION
	DAMPER MOTOR
	INFRA-RED HEATERS
	MOTOR STARTER
	DISCONNECT SWITCH
	COMBINATION STARTER & SWITCH
	EXP. EXPLOSION-PROOF EQUIPMENT
	OUTLET ON EMERGENCY SYSTEM
	CLOCK SYSTEM CONDUIT
	TV ANTENNA CONDUIT
	THERMOSTAT
	CONTACTOR OR RELAY
	PUSH BUTTON CONTROL
	FIRE ALARM HORN
	FIRE ALARM BREAK GLASS STATION
	FIRE ALARM FAN CUT-OFF RELAY
	HEAT DETECTOR - RATE OF RISE TYPE
	HEAT DETECTOR - FIXED TEMPERATURE TYPE
	TV ANTENNA OUTLET
	CLOCK
	CHIMES
	TELEPHONE OUTLET
	UNDERFLOOR DUCT
	ELECTRICAL PANEL
	TELEPHONE PANEL
	SPECIAL EQUIPMENT PANEL
	CONDUIT IN WALL OR CEILING - ARROWS INDICATE HOME RUNS TO PANELS, CROSS MARKS INDICATE NUMBER OF WIRES, NO MARK INDICATES TWO WIRES, LETTERS AND NUMBERS INDICATE PANEL, FED AND CIRCUIT NUMBERS.
	CONDUIT UNDERGROUND OR IN FLOOR SLAB.
	TELEPHONE CONDUIT
	LOW VOLTAGE THERMOSTAT WIRE RUN IN CEILING SPACE WITHOUT CONDUIT.
	FIRE ALARM CONDUIT, CROSS MARK INDICATE NUMBER OF 14 GAUGE TW WIRE.



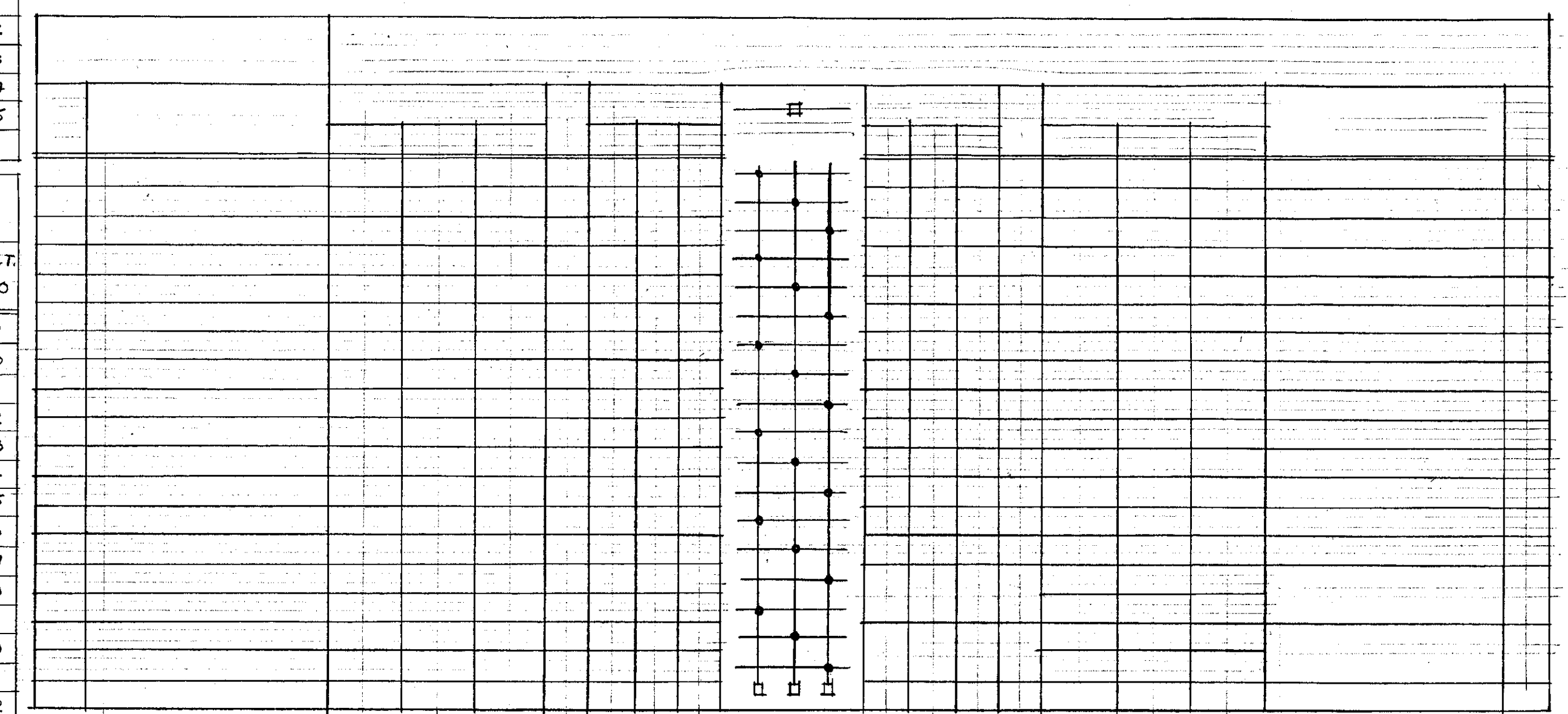
LC 1 VOLTS 277/480 PHASE 3 WIRE 4 MAIN CAPACITY 225 AMPERES MOUNTING FLUSH FEEDER SIZE 3/0 TW MAIN CONNECTION MLO

EC 1 VOLTS 120/208 PHASE 3 WIRE 4 MAIN CAPACITY 225 AMPERES MOUNTING FLUSH FEEDER SIZE 1/0 TW MAIN CONNECTION MLO

EC 5 VOLTS 120/208 PHASE 3 WIRE 4 MAIN CAPACITY 225 AMPERES MOUNTING FLUSH FEEDER SIZE 2/0 TW MAIN CONNECTION MLO

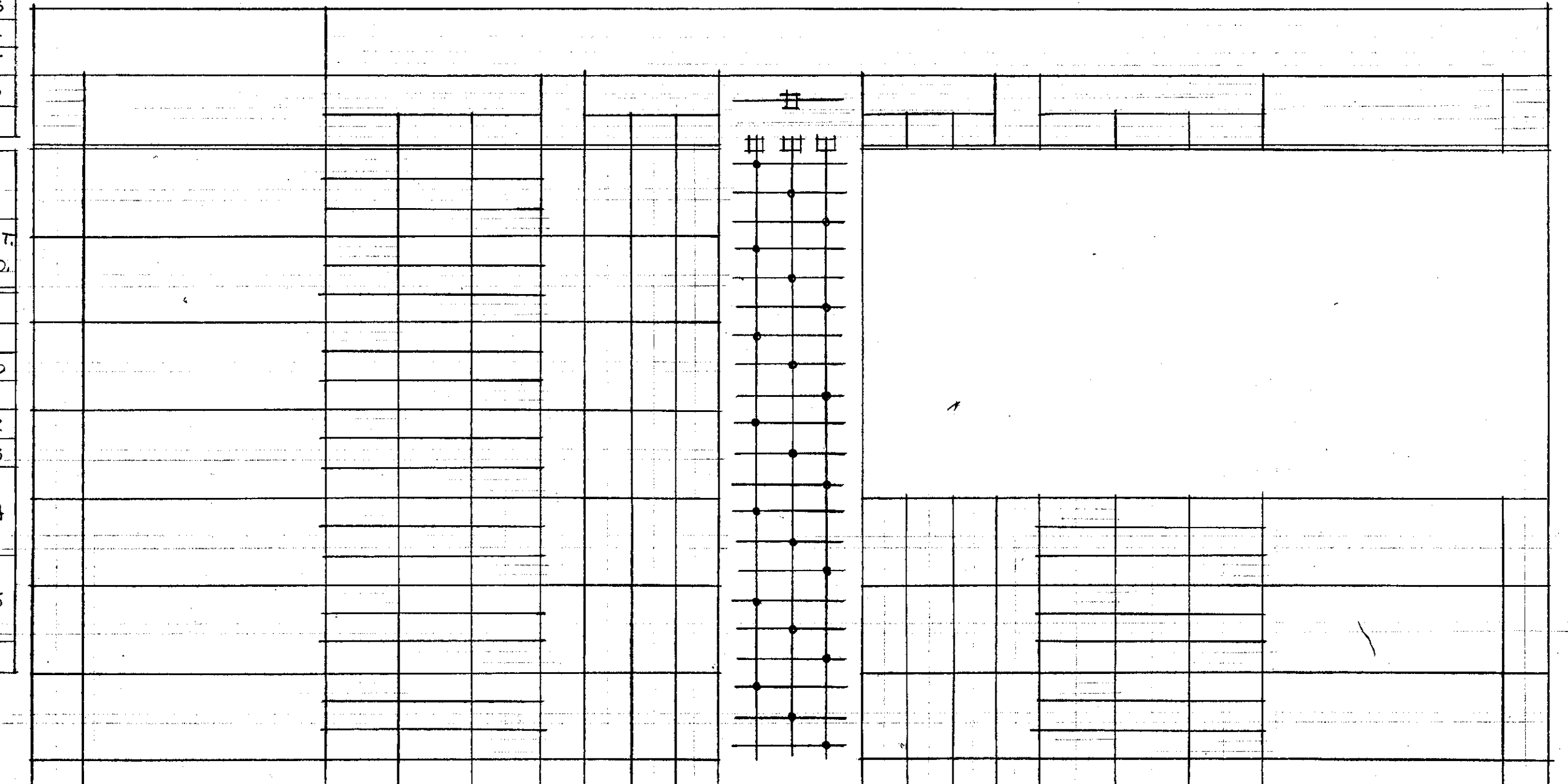
EC 2 VOLTS 120/208 PHASE 3 WIRE 4 MAIN CAPACITY 100 AMPERES MOUNTING FLUSH FEEDER SIZE #2 TW MAIN CONNECTION 100A-3P-MAIN BKR.

EC 3 VOLTS 120/208 PHASE 3 WIRE 4 MAIN CAPACITY 225 AMPERES MOUNTING FLUSH FEEDER SIZE 1/0 TW MAIN CONNECTION 100A-3P-MAIN BKR.



EC 7 VOLTS 120/208 PHASE 3 WIRE 4 MAIN CAPACITY 100 AMPERES MOUNTING FLUSH FEEDER SIZE #2 TW MAIN CONNECTION 100A-3P-MAIN BKR.

EC 4 VOLTS 120/208 PHASE 3 WIRE 4 MAIN CAPACITY 225 AMPERES MOUNTING FLUSH FEEDER SIZE 1/0 TW MAIN CONNECTION MLO



EC 8 VOLTS 120/208 PHASE 3 WIRE 4 MAIN CAPACITY 225 AMPERES MOUNTING FLUSH FEEDER SIZE #2 TW MAIN CONNECTION 100A-3P-MAIN BKR.

EC 9 VOLTS 120/208 PHASE 3 WIRE 4 MAIN CAPACITY 225 AMPERES MOUNTING FLUSH FEEDER SIZE 2/0 TW MAIN CONNECTION MLO