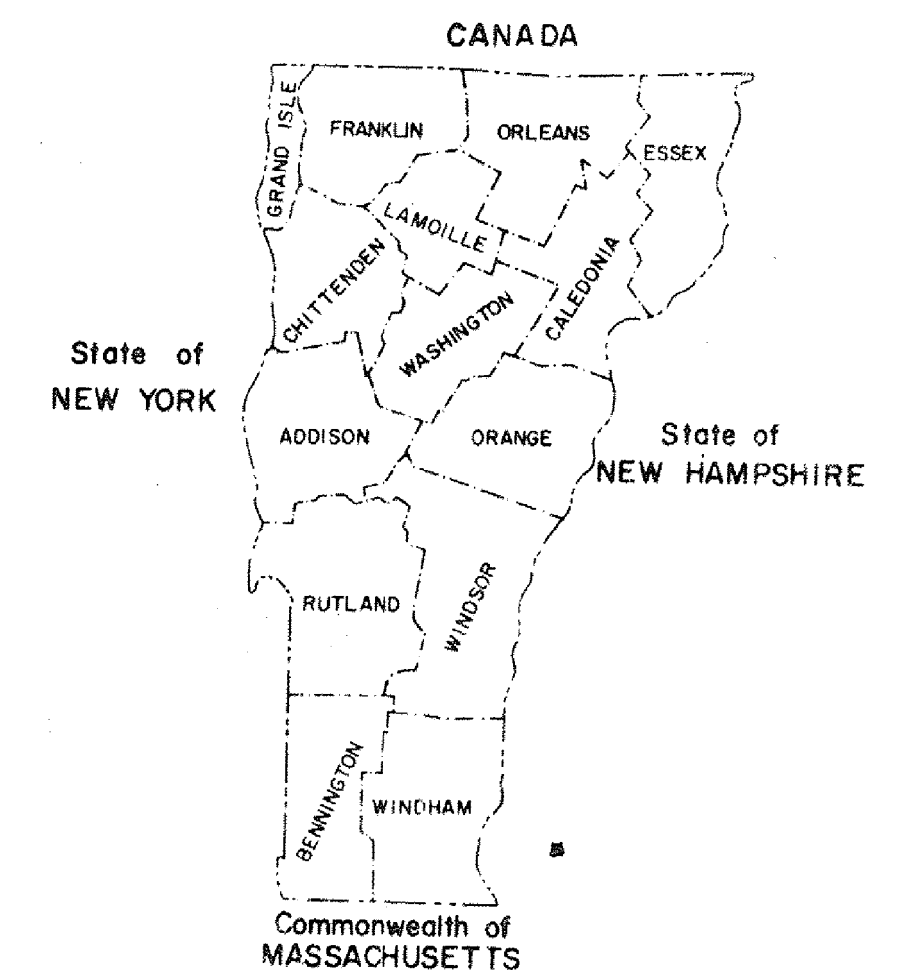


STATE OF VERMONT
AGENCY OF TRANSPORTATION



CONTRACT PLANS
THESE PLANS DO NOT REFLECT
CHANGES MADE ON THE PROJECT.



TERMINAL BUILDING
RUTLAND STATE AIRPORT
CLARENDON, VERMONT
AIR 23-2024

PROJECT TO INCLUDE THE SITE PREPARATION AND CONSTRUCTION OF AN AIRPORT
TERMINAL BUILDING WITH ITS PLUMBING, HEATING, AND ELECTRICAL APPURTENANCES.
PROJECT ALSO INCLUDES LAYOUT AND PAVING OF AN APRON EXTENSION AREA.

Dated FEB 12 1985
Simpson Construction, Inc.
Contractor
Signature
Earle M. Simpson, Jr.
President
Title
Transportation Secretary's Signature

SYMBOLS

DIMENSION TO FOF, FOS, OR CL

MAJOR SECTIONS THROUGH BLDG

LARGE SCALE DETAILS & SECTIONS
(IN DETAIL BOOK)

MATERIAL IN A RELATED PLANE

INTERIOR ELEVATIONS

DIAMETER

EARTH

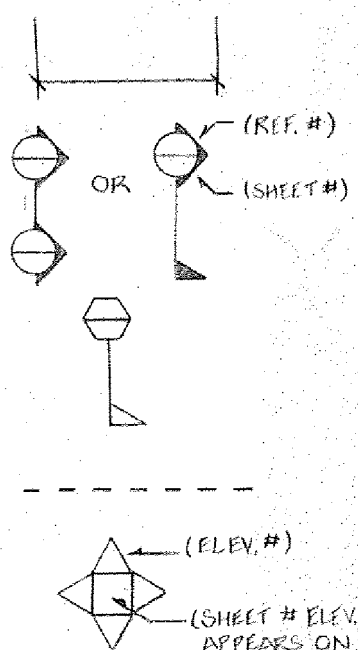
SAND OR GMB

GRAVEL

CRUSHED STONE

CONCRETE

CEMENT MASONRY UNIT



BRICK

SLATE

STONE

STEEL REINFORCING

STEEL CROSS SECTION

PLYWOOD

WOOD FRAMING CROSS
SECTION - CONTINUOUS

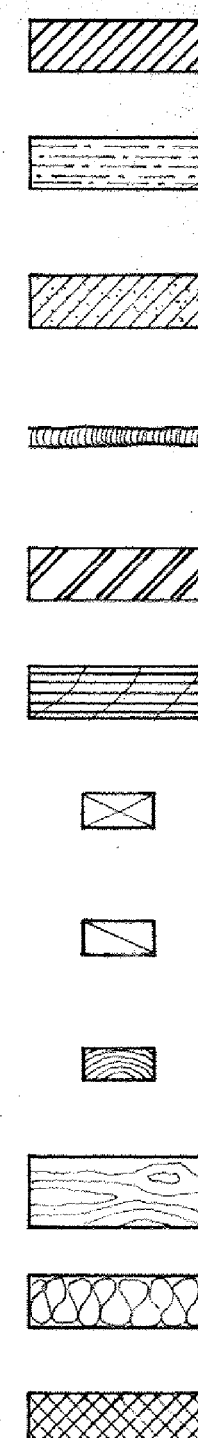
WOOD FRAMING CROSS
SECTION - DISCONTINUOUS

FINISH WOOD CROSS
SECTION

FINISH WOOD FACE GRAIN

FIBERGLASS INSULATION

RIGID INSULATION



ABBREVIATIONS

AB ANCHOR BOLT
BLDG BUILDING
BTW BETWEEN
CB CARRIAGE BOLT
CL CENTER LINE
CL CLOSET
CMU CEMENT MASONRY UNIT
(CONCRETE BLOCK)
COLS COLUMNS
CONT CONTINUOUS
DBL DOUBLE
DF DRINKING FOUNTAIN
DR DOOR
DN DOWN
EF EACH FACE
EL ELEVATION
EW EACH WAY
EXT EXTERIOR
FCO FLOOR CLEAN OUT
FD FLOOR DRAIN
FDN FOUNDATION
FEC FIRE EXTINGUISHER CABINET
FOF FACE OF FOUNDATION
FOS FACE OF STUD
GMB GYPSUM WALL BOARD
HDCP HANDICAPPED

HORIZ HORIZONTAL
INSUL INSULATION
LB LAG BOLT
MAX MAXIMUM
MIN MINIMUM
MR MOISTURE RESISTANT
NIC NOT IN CONTRACT
OC ON CENTER
PERP PERPENDICULAR
PL PLATE
POLY POLYETHYLENE
PR PAIR
R RISER
RO ROUGH OPENING
ST STEEL
STD STANDARD
TOC TOP OF CURB
T & G TONGUE AND GROOVE
TYP TYPICAL
VERT VERTICAL
VB VAPOR BARRIER
W/ WITH
WD WOOD
FF FINISH FLOOR

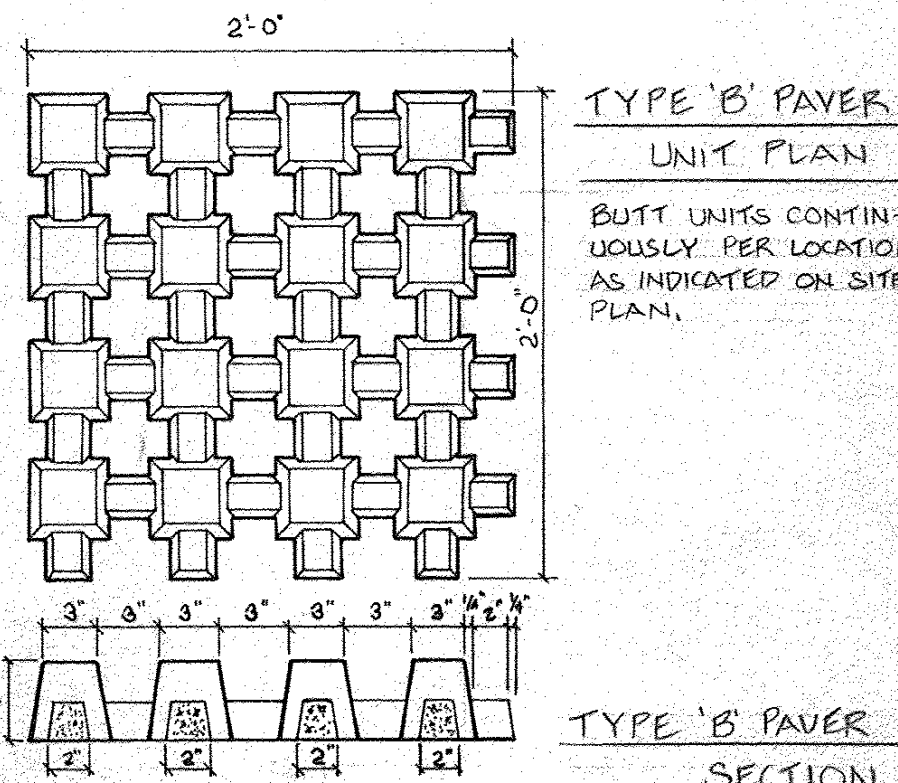
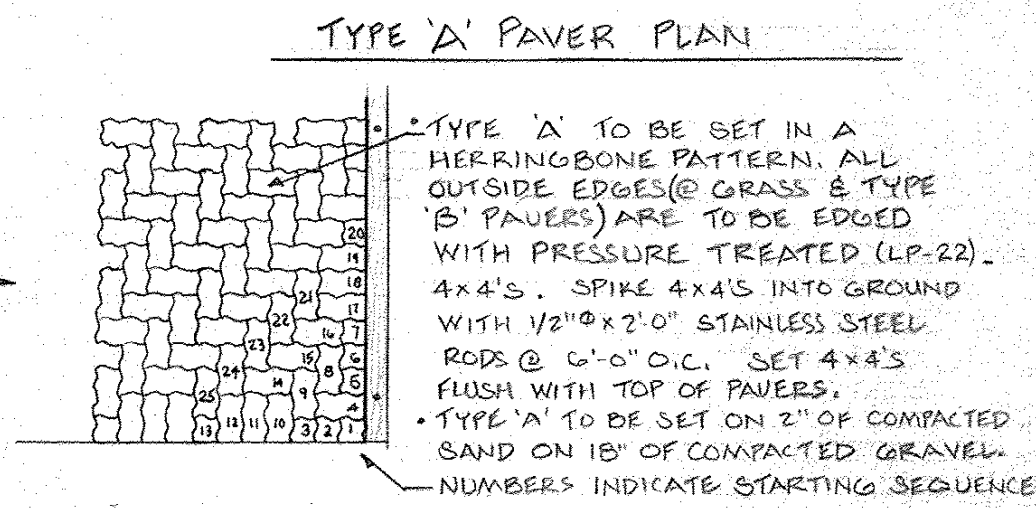
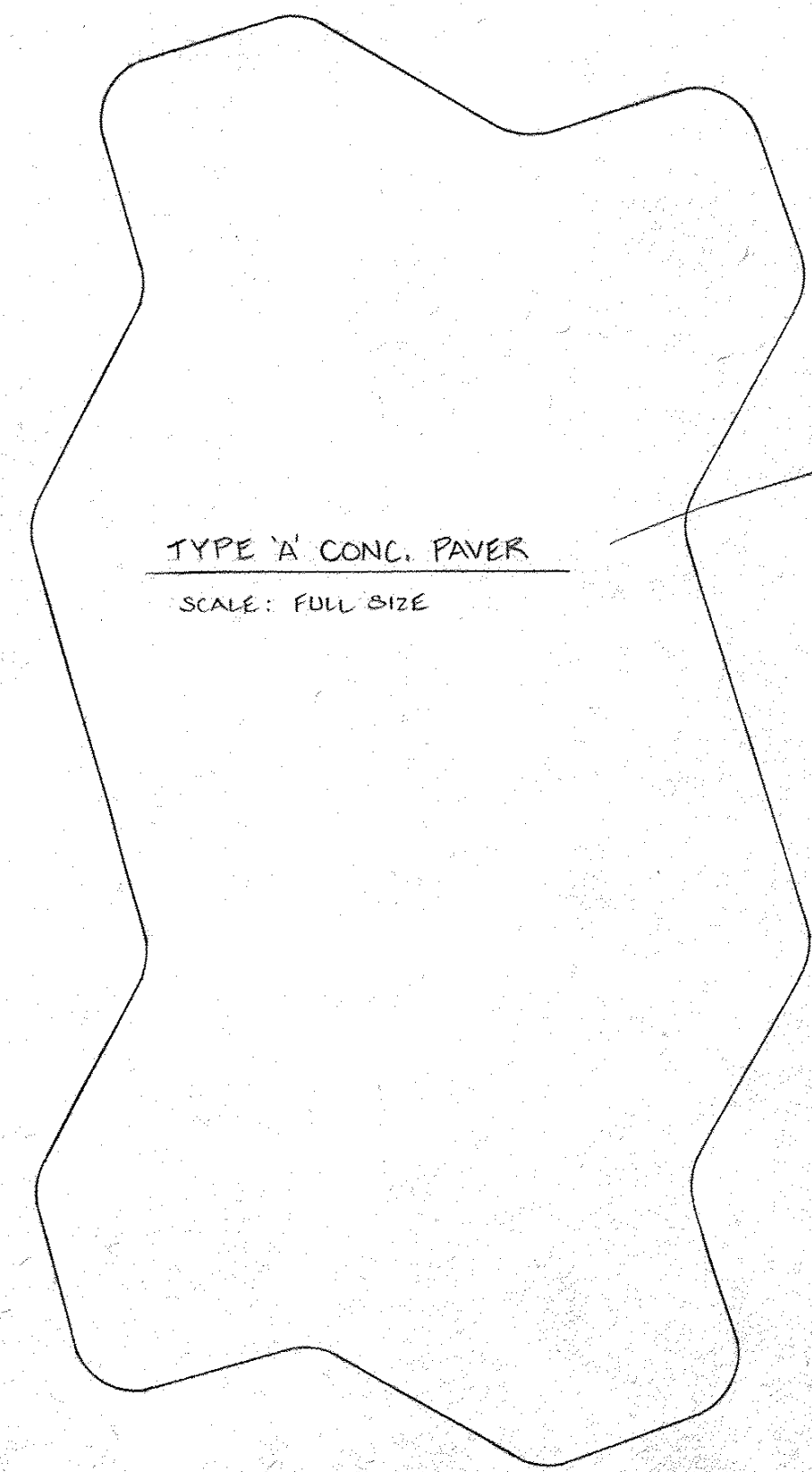
INDEX TO DRAWINGS *

1 OF 19 T-1 TITLE SHEET
SITE DRAWINGS
2 " S-1 SITE PLAN & LANDSCAPING
ARCHITECTURAL
3 " A-1 FOUNDATION PLAN
4 " A-2 FIRST FLOOR PLAN
5 " A-2REF FIRST FLOOR REFERENCE PLAN
6 " A-3 MEZZANINE PLAN
7 " A-4 NORTH & EAST ELEVATIONS
8 " A-5 SOUTH & WEST ELEVATIONS
9 " A-6 N/S SECTIONS & RESTROOM ELEVATIONS
10 " A-7 E/W SECTIONS & INTERIOR ELEVATIONS
STRUCTURAL
11 " SF-1 MEZZANINE FRAMING
12 " SF-2 ROOF FRAMING
13 " SF-3 FRAMING X-SECTIONS
ELECTRICAL
14 E-1 EQUIPMENT ELEVATIONS & MEZZANINE ELECTRICAL PLAN
15 E-2 FIRST FLOOR ELECTRICAL PLAN & PLAN LAYOUT
MECHANICAL
16 " H-1 HEATING PLAN & DETAILS
17 " P-1 PLUMBING PLAN & DETAILS
STANDARD SITE DETAILS
18 " STANDARD D6 (APRIL 4, 1973r)
19 " STANDARD D11 (AUGUST 24, 1981r)

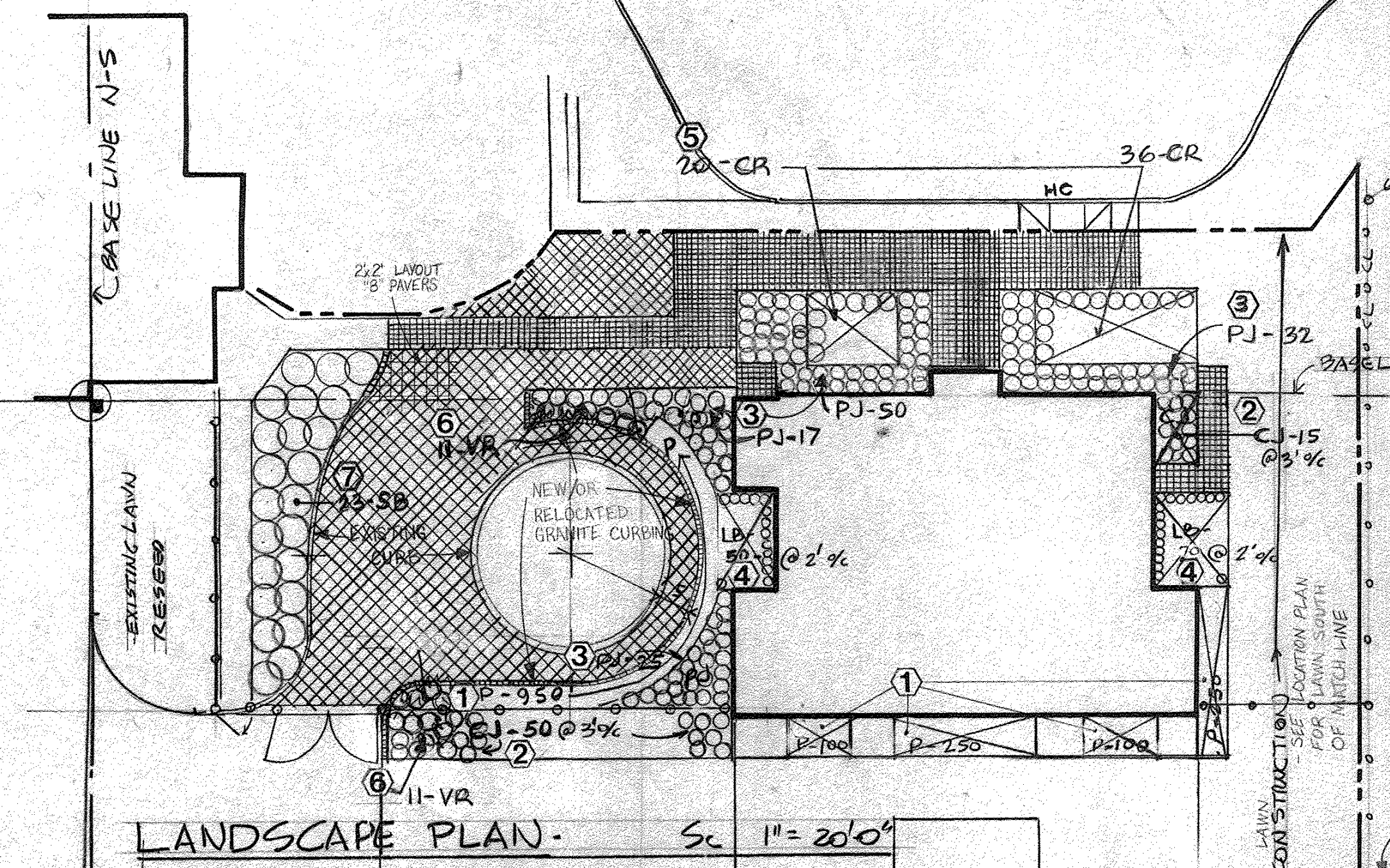
*FOR LARGE SCALE DETAILS SEE "DETAIL BOOK"

AIP 3-50-0015-02

AGENCY OF ADMINISTRATION DEPARTMENT OF STATE BUILDINGS	
APPROVED	DATE
COMMISSIONER	
SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD	
APPROVED	DATE
DIRECTOR OF ENGINEERING AND CONSTRUCTION	
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION	
APPROVED	DATE
CHIEF ENGINEERING BRANCH - AIRPORTS DIVISION	
PROJECT AIR No 23-2024	
SHEET 1 OF 19 SHEETS	



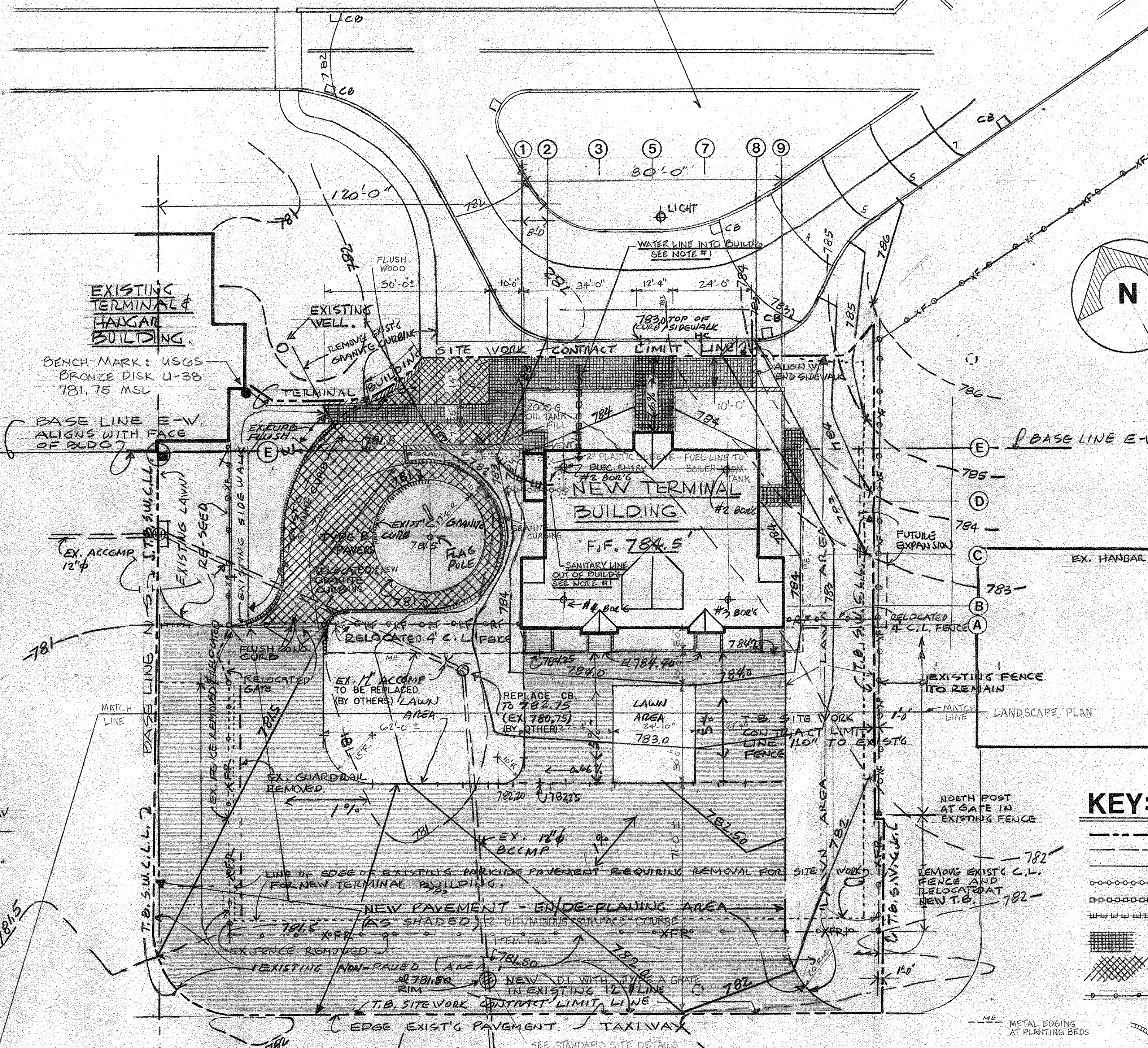
TYPE 'B' TO BE SET ON 2" OF COMPACTED SAND ON 18" OF COMPACTED GRAVEL. FILL VOIDS IN PAVERS FLUSH WITH A MIXTURE OF TOPSOIL, LIME, FERTILIZER (10-20-20) AND PEAT MOSS. WATER WITH A MIST SPRAY TO SETTLE. ADD ADDITIONAL TOPSOIL MIX TO BRING THE TOPSOIL FLUSH WITH TOP OF THE PAVES. SEED AT SLIGHTLY LESS THAN NORMAL RATE AND MULCH. WHEN GRASS IS 2 1/2" HIGH, CUT TO 1 3/4".



PLANTING LIST

	SIZE & REMARKS
1) P. PERIWINKLE 1650 PLANTS @ 9" x 6" IN 5 BEDS - VINCA MINOR	BARE ROOT
2) C. CREEPING JUNIPER 65 PLANTS @ 3' x 1/2" - 2 BEDS - JUNIPER HORIZONTALIS	6" x 9" HT, 18" - 24" SPREAD, 5 GAL. C
3) PJ. PROSTRATE COMMON JUNIPER 124 PLANTS - 3' x 1/2" - 4 BEDS - JUNIPER C. DEPRESSA	12" - 15" HT, 24" - 30" SPD, 5 GAL. C
4) LB. LOW BUSH BLUEBERRY 120 PLANTS - 2' x 1/2" IN 2 BEDS - V. AUGUSTIFOLIUM LAEVIFOLIUM	6" - 9" HT, 6" FIBER POT
5) CR. CAROLINA ROSE 56 PLANTS IN TWO BEDS - ROSA CAROLINA	18" - 24" HT, 2 GAL. C
6) VR. VIRGINIA ROSE 22 PLANTS IN 2 BEDS - ROSA VIRGINIANA	24" - 30" HT, 3 GAL. C
7) SB. SNOWBERRY 22 PLANTS @ 4' x 1/2" IN ONE BED - SYMPHORICARPUS ALBUS LAEVIS	3' - 4' HT, 3 GAL. C/OR B&B

FOR GRADES & LAYOUT OF ROADS NORTH OF SITE WORK CONTRACT LIMIT LINE REFER TO DRAWINGS FOR RUTLAND STATE AIRPORT, DATED 8-15-83, PREPARED BY PINKHAM ENGINEERING ASSOC., INC., DRAWING 3 OF 44 FOR GRADES, AND DRAWING 15 OF 44 FOR ROAD LAYOUT.



SITE LOCATION PLAN

BUILDING LOCATION, GRADES, SURFACE IMPROVEMENTS & DRAINAGE.
NOTE #1: SEE SITE UTILITIES PLAN (SU-1) FOR CONTINUATION OF BUILDING WATER SERVICE LINE & SANITARY LINE.
NOTE #2: DATA REGARDING EXISTING PARKING AREA, GRADES, & FENCES DEVELOPED FROM:
1) AS BUILT RUTLAND STATE AIRPORT PARKING LOT EXTENSION DRAWINGS DATED: 7-23-73, G.W. DIAMICO, RESIDENT ENGINEER.
2) DRAWINGS PREPARED BY DUERESNE-HENRY, RUTLAND STATE AIRPORT, CONTRACT 1 OF 2, PLAN & PROFILE SHEET 4 OF 13, AND GRADING, DRAINAGE DETAILS AND PROFILES SHEET 5 OF 13, DATED 9-12-77 & 9-8-77.

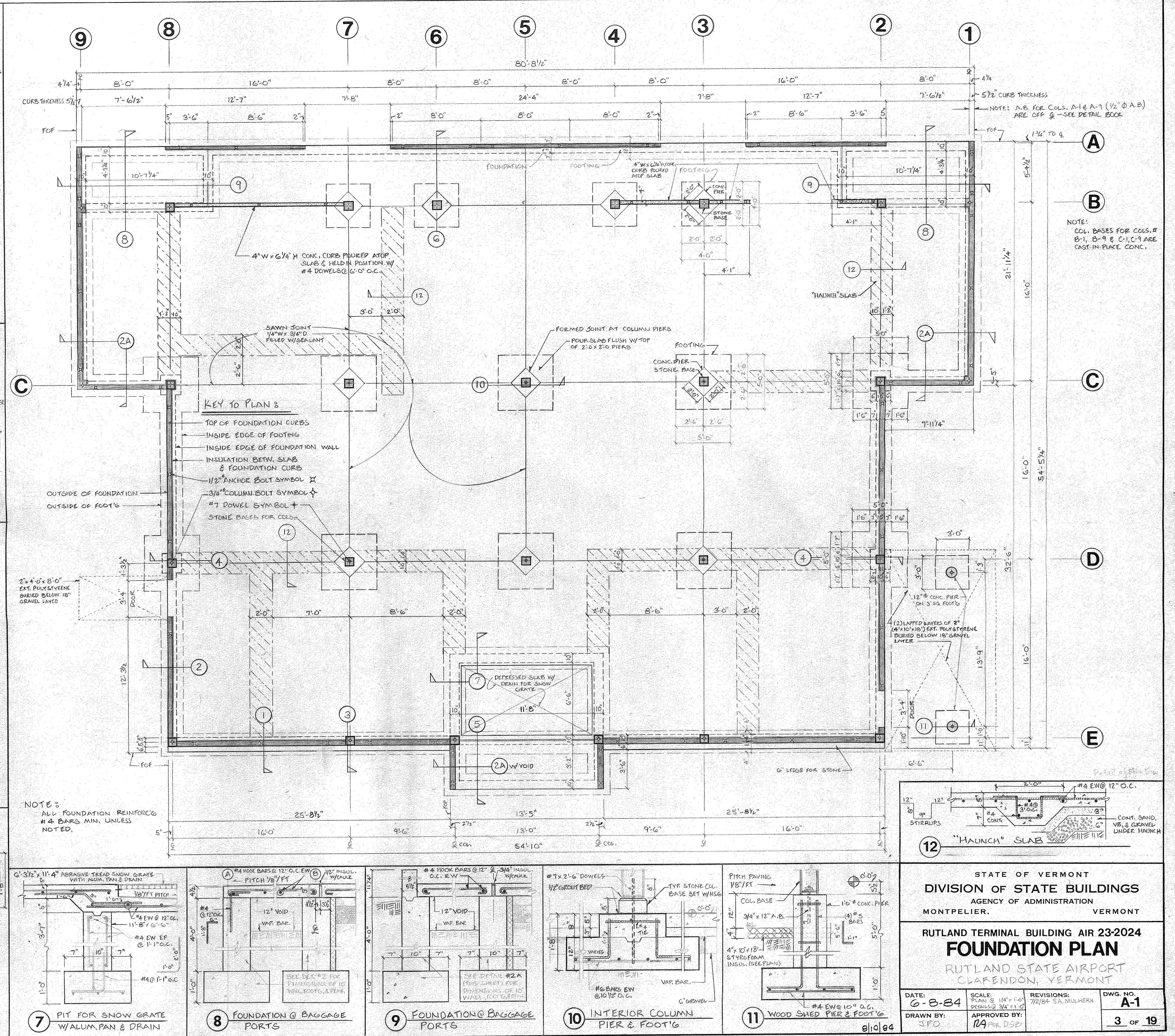
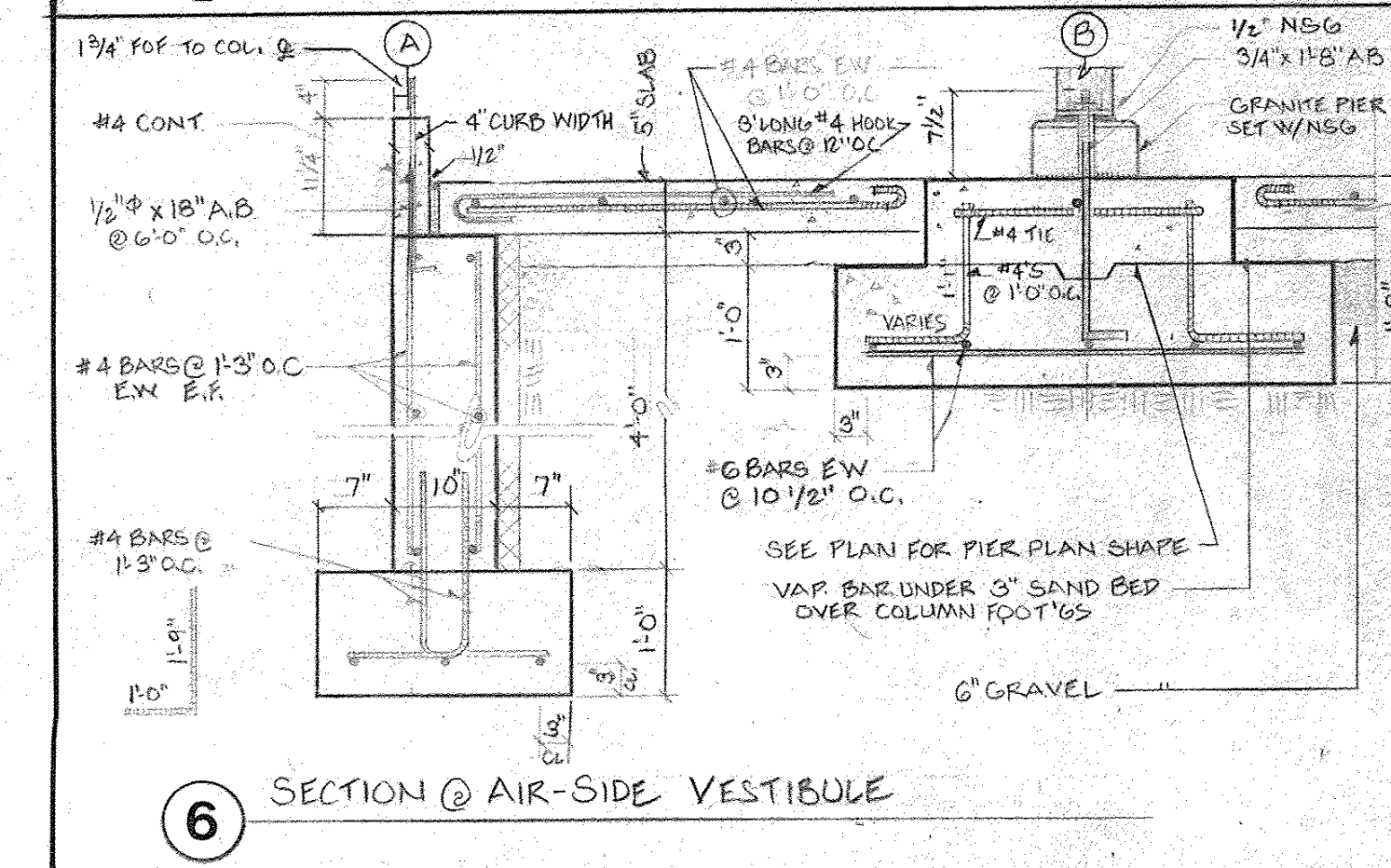
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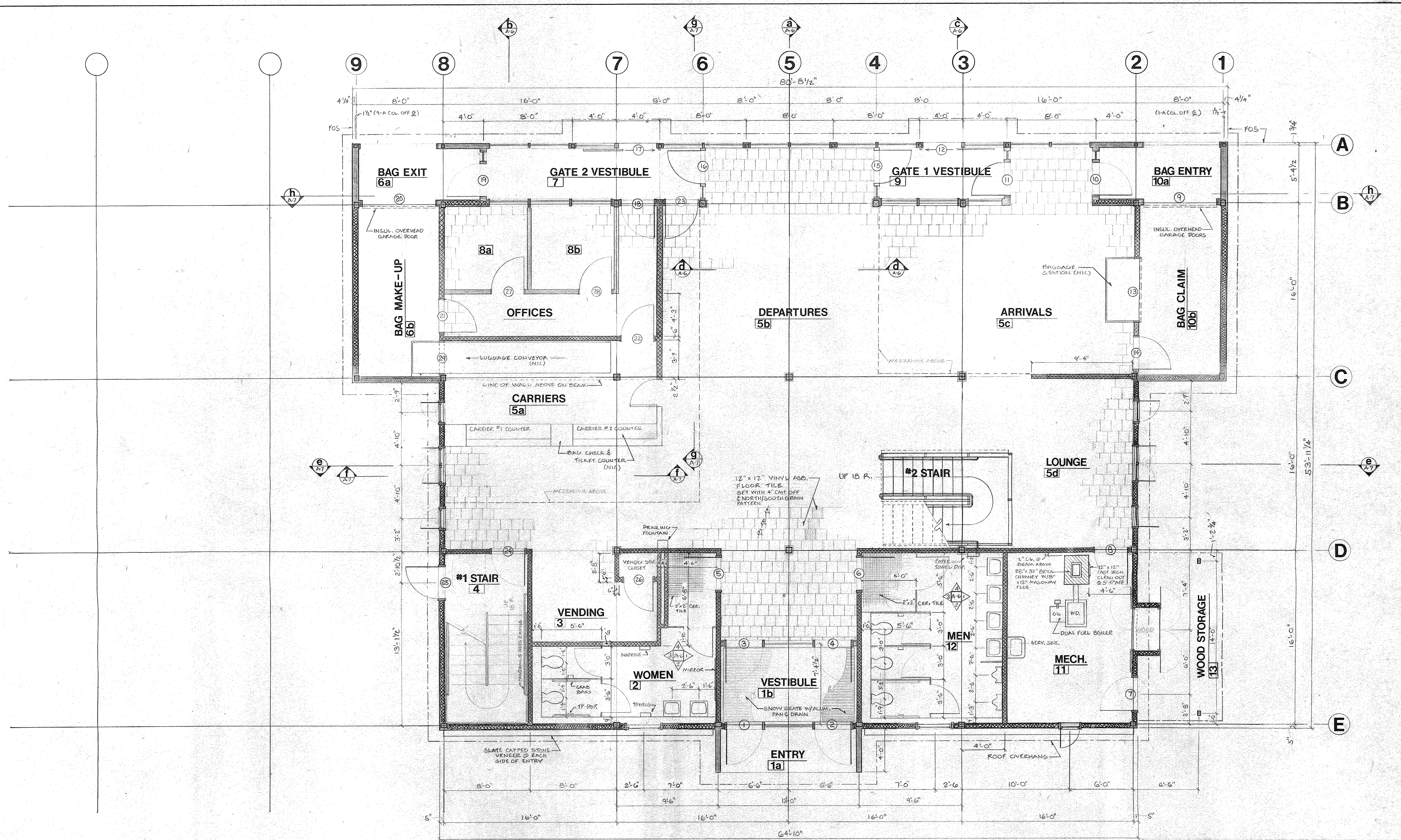
- SITEWORK CONTRACT LIMITS
- EXISTING CONTOURS @ 1' INTERVALS
- PROPOSED CONTOURS
- SANITARY SEWER
- WATER ENTRY
- ELECTRICAL ENTRY
- TYPE 'A' PAVERS
- TYPE 'B' PAVERS
- FENCE - XRF = EXISTING, -XRF = REMOVED, RF = RELOCATED
- GRANITE CURBING

STATE OF VERMONT
DIVISION OF STATE BUILDINGS
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT

RUTLAND TERMINAL BUILDING AIR 23-2024
SITE PLAN & LANDSCAPING
RUTLAND STATE AIRPORT
CLARENDON, VERMONT

DATE: 6-8-84	SCALE: 1" = 20'-0"	REVISIONS: 6/29/84 S.A. MULHERN	DWG. NO. S-1
DRAWN BY: RA	APPROVED BY: RA FOR DSG	2 OF 19	

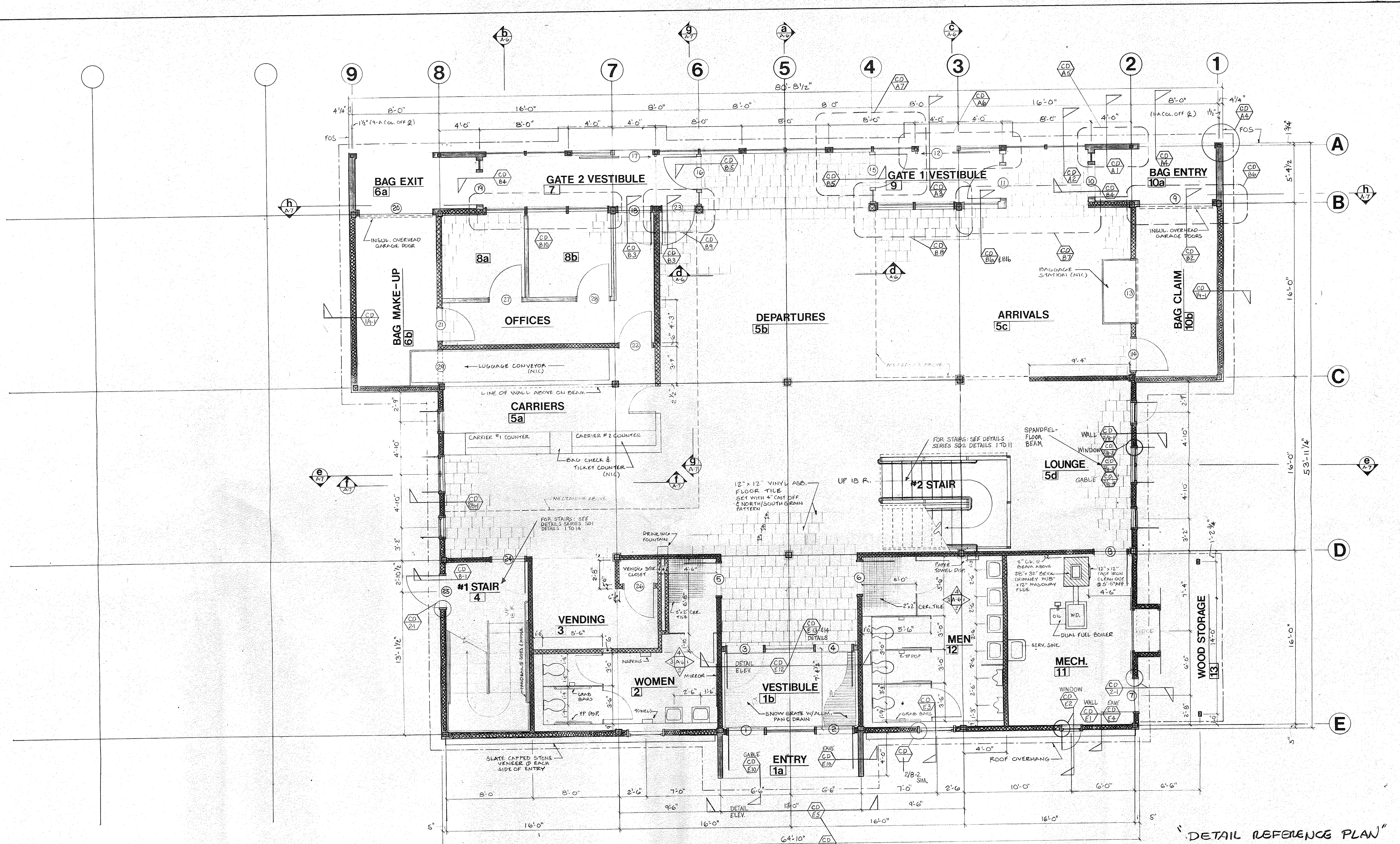




STATE OF VERMONT DIVISION OF STATE BUILDINGS AGENCY OF ADMINISTRATION MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING AIR 23-2024 FIRST FLOOR PLAN RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6/8/24	SCALE: 1/8" = 1'-0"	REVISIONS: 7/2/24 S.A. MULHERN	DWG. NO. A-2
DRAWN BY: JPG	APPROVED BY: DA FOR DEP	4 OF 19	

6/10/24

1-4
BA Co White



DETAIL REFERENCE PLAN

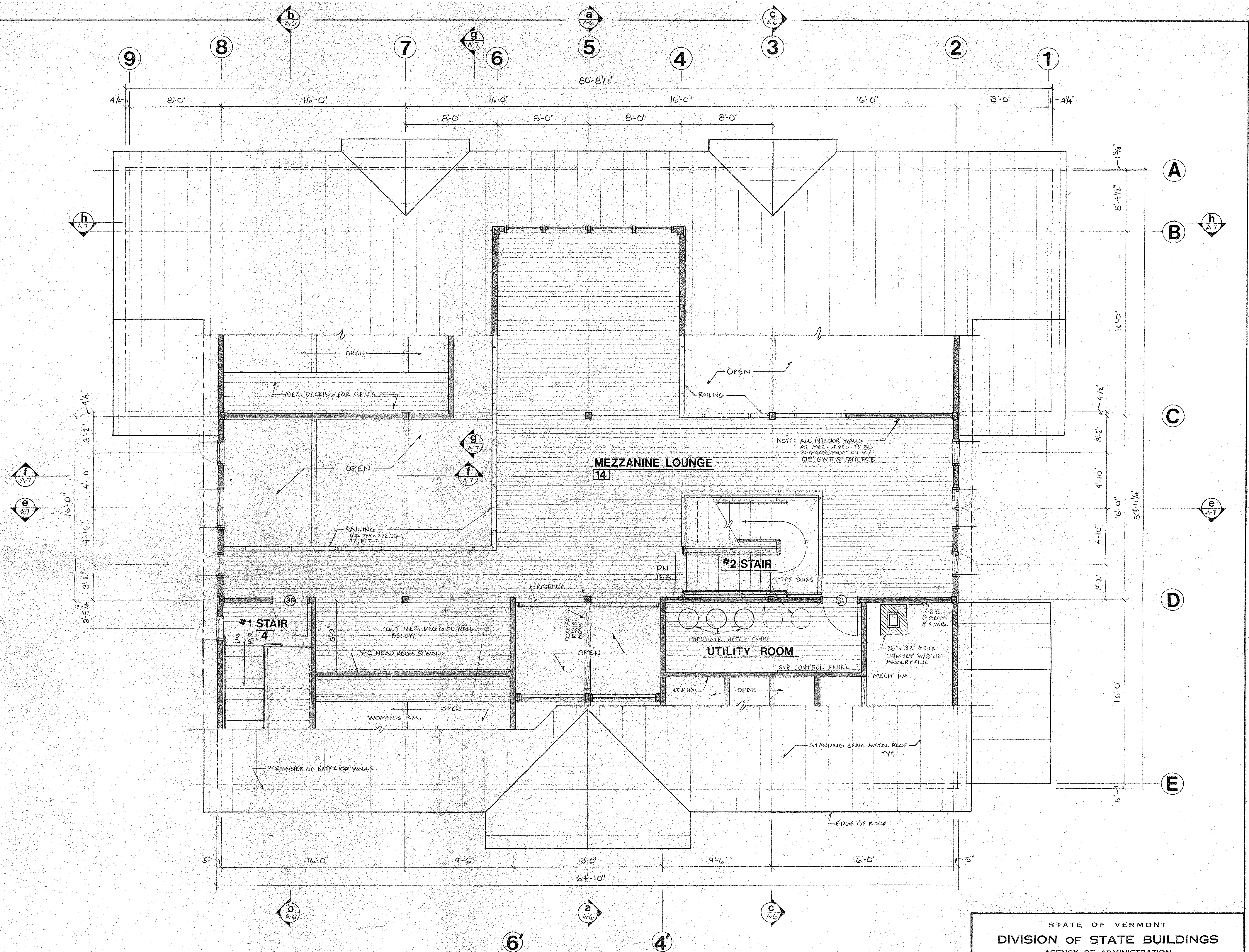
STATE OF VERMONT
DIVISION OF STATE BUILDINGS
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT

RUTLAND TERMINAL BUILDING AIR 23-2024
FIRST FLOOR PLAN
RUTLAND STATE AIRPORT
CLARENDON, VERMONT

DATE: 6/8/84	SCALE: 1/8" = 1'-0"	REVISIONS:	DWG. NO. A-2Ref.
DRAWN BY: J.T.	APPROVED BY: R.A. FOR DSD		5 OF 19

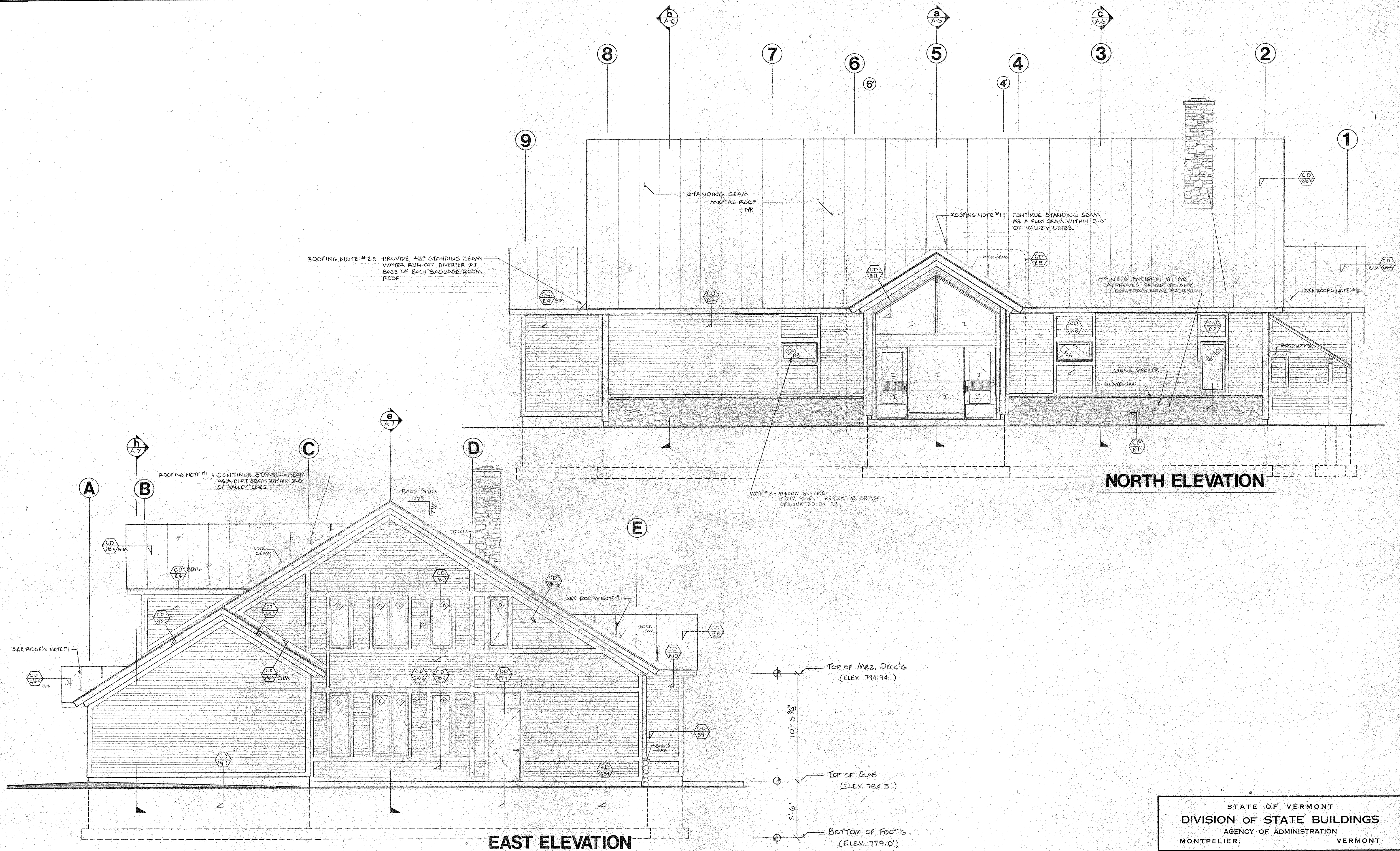
8/10/84

dated
1/24/84 by Wake



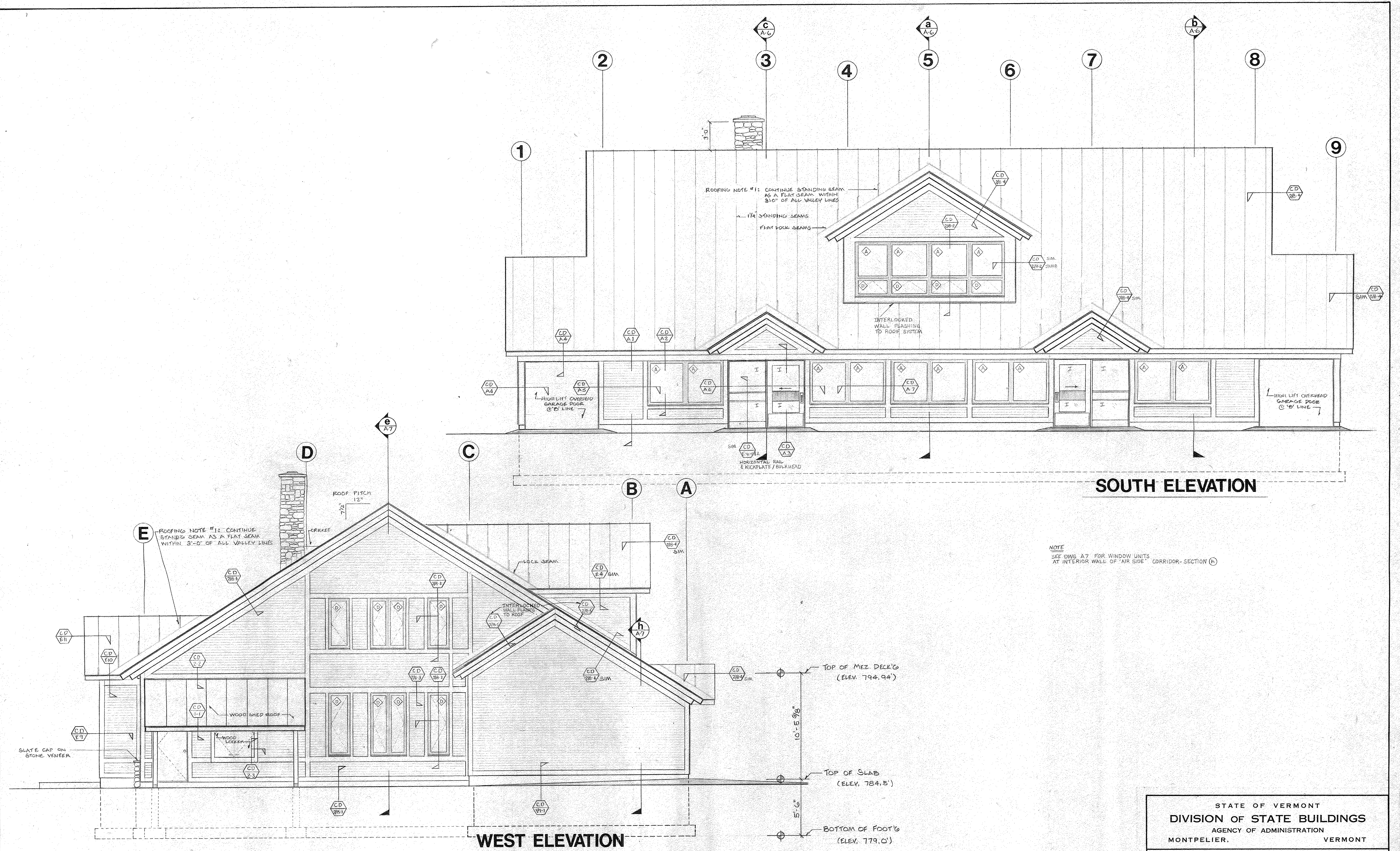
STATE OF VERMONT DIVISION OF STATE BUILDINGS AGENCY OF ADMINISTRATION MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING AIR 23-2024 MEZZANINE PLAN RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6-8-84	SCALE: 1/4" = 1'-0"	REVISIONS: 6/2/84 SAMUELSON	DWG. NO. A-3
DRAWN BY: JPO	APPROVED BY: RA FOR DSE	6 OF 19	

8/10/84



STATE OF VERMONT			
DIVISION OF STATE BUILDINGS			
AGENCY OF ADMINISTRATION			
MONTPELIER,		VERMONT	
RUTLAND TERMINAL BUILDING AIR 23-2024			
ELEVATIONS			
RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6-8-84	SCALE: 1/4" = 1'-0"	REVISIONS: 6/29/84 S.A. MULHERN	DWG. NO. A-4
DRAWN BY: JPD	APPROVED BY: 1/4 JUL 05/84	7 OF 19	

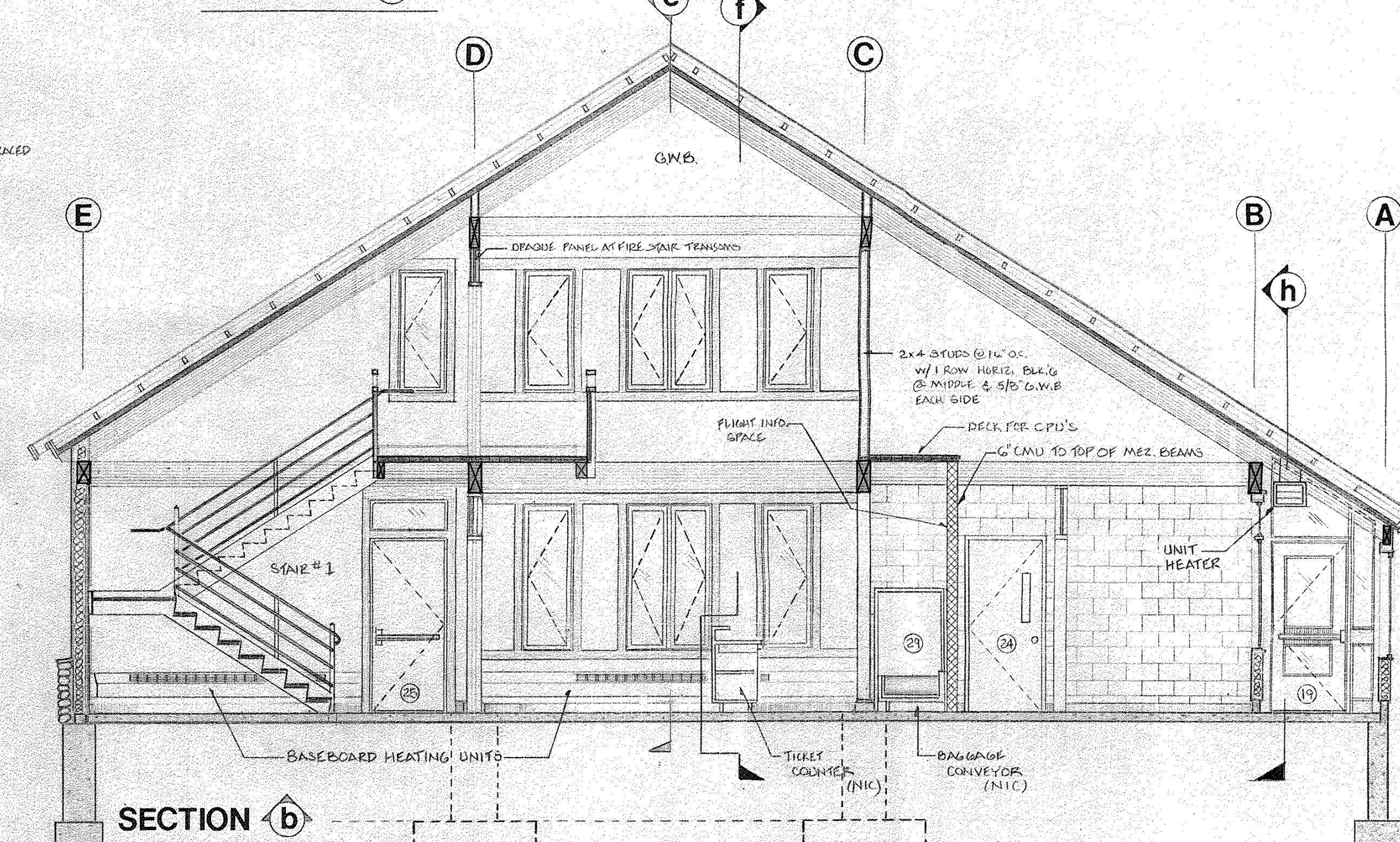
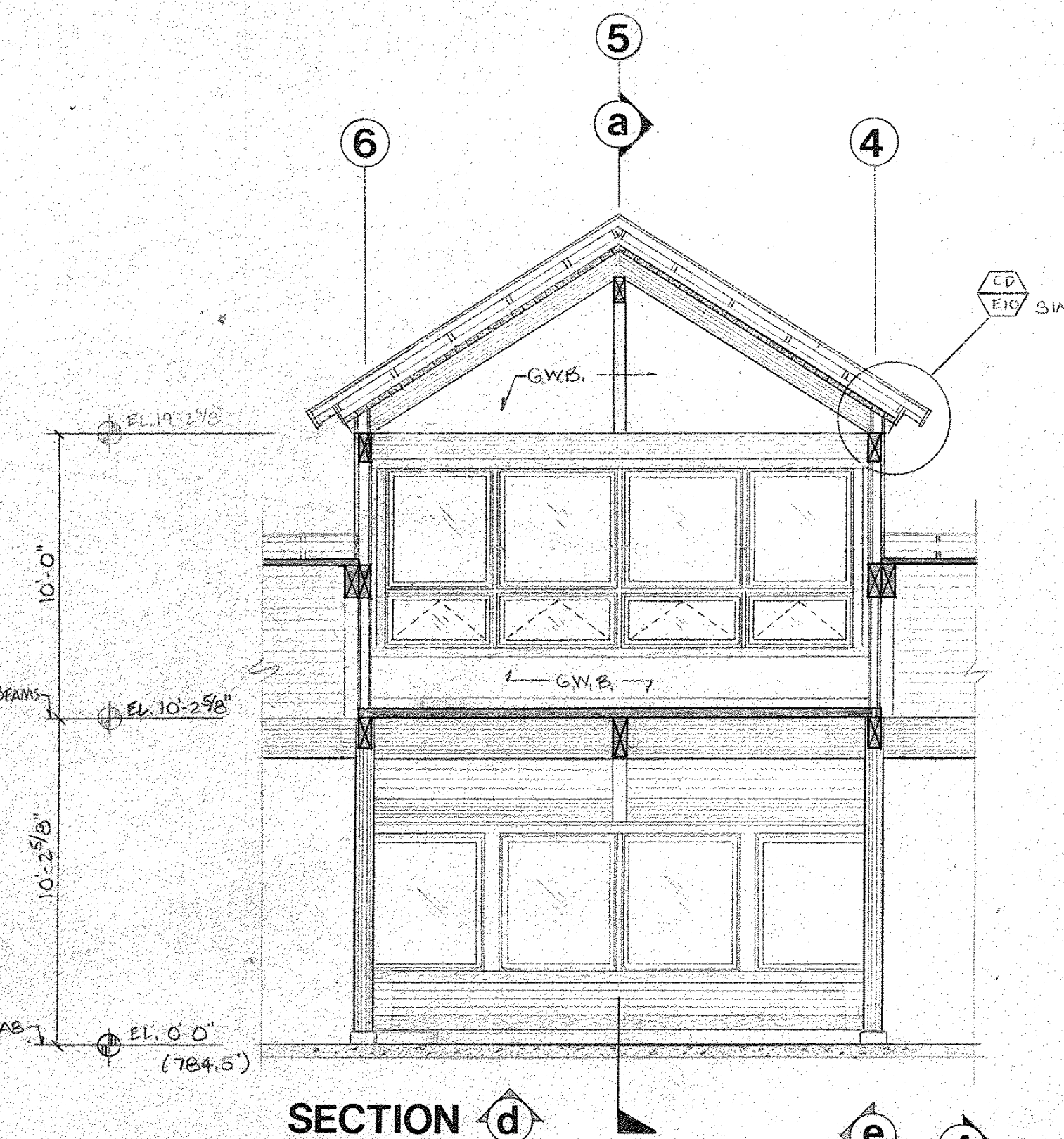
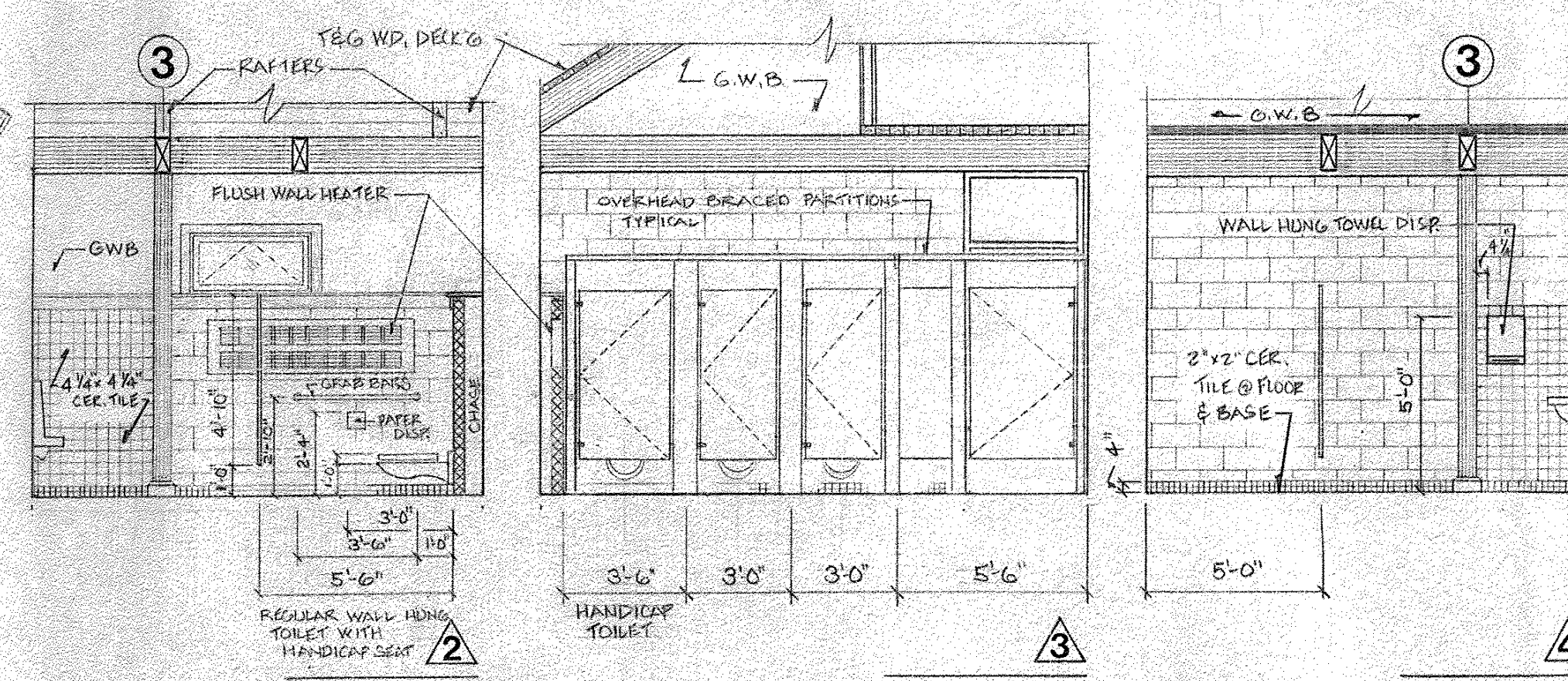
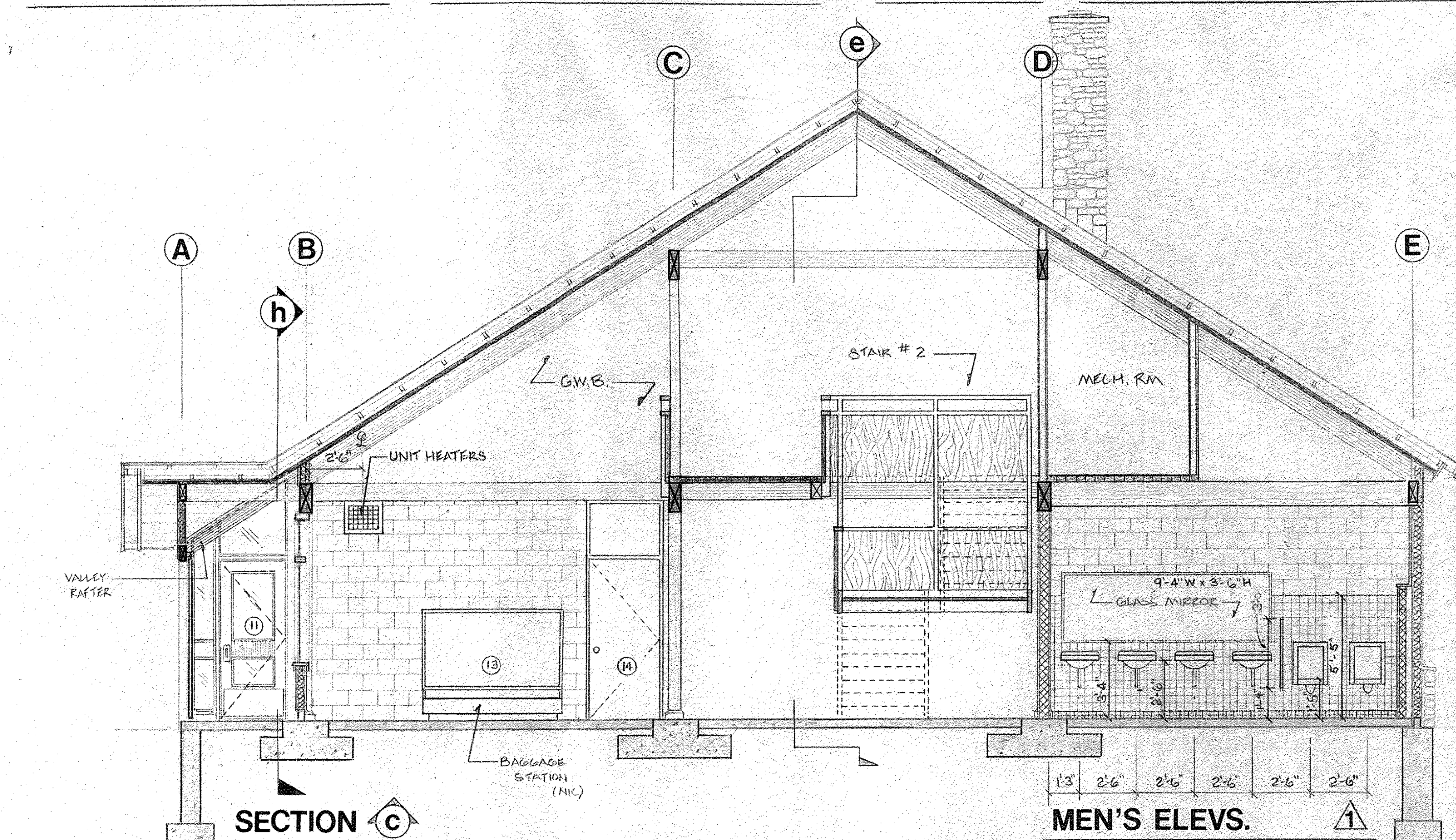
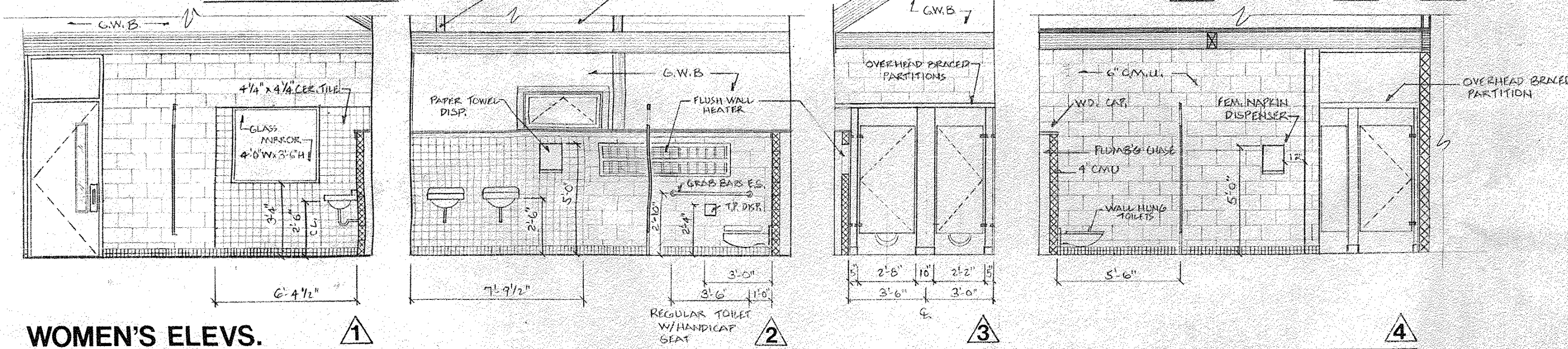
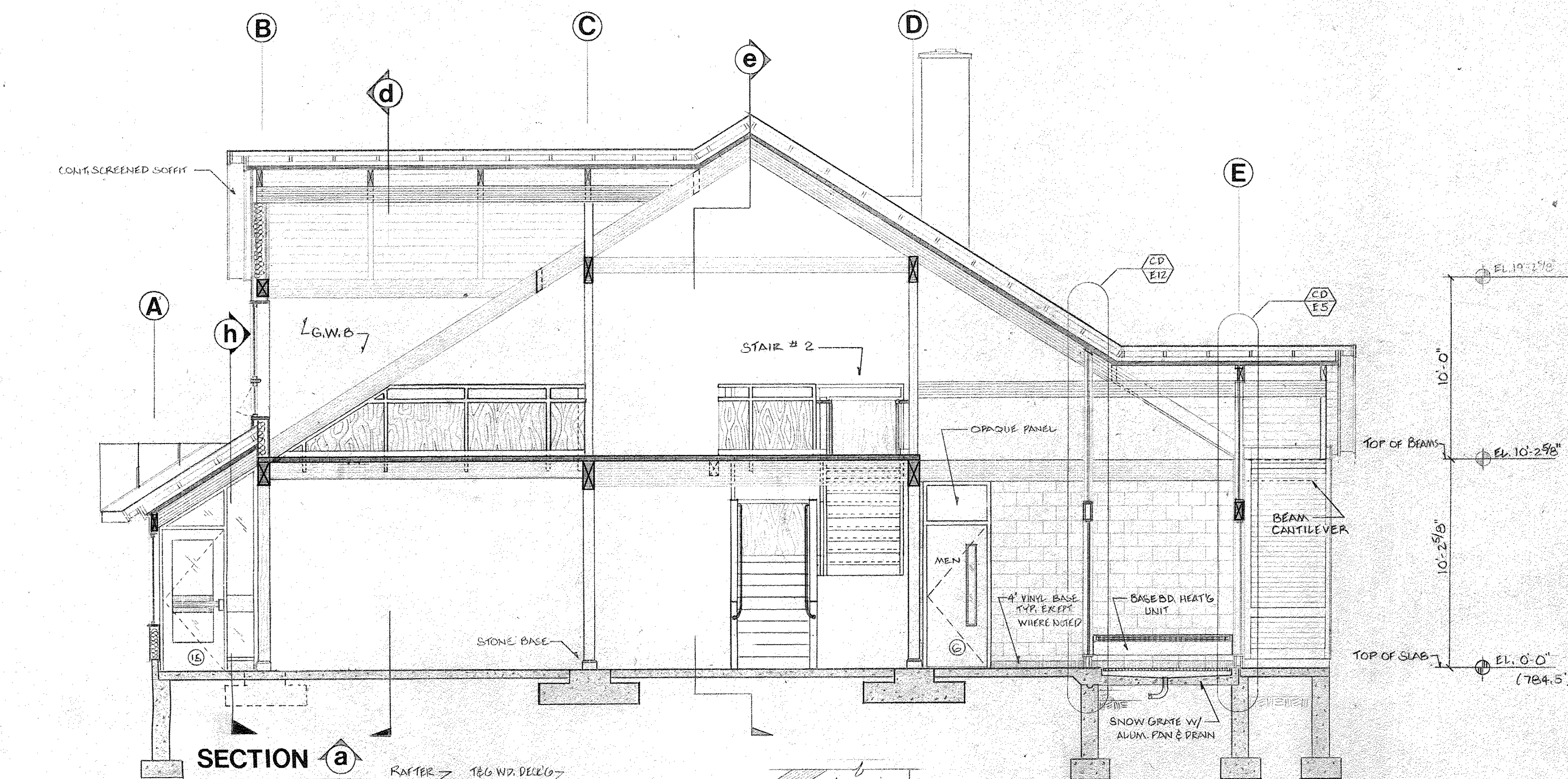
8/10/84



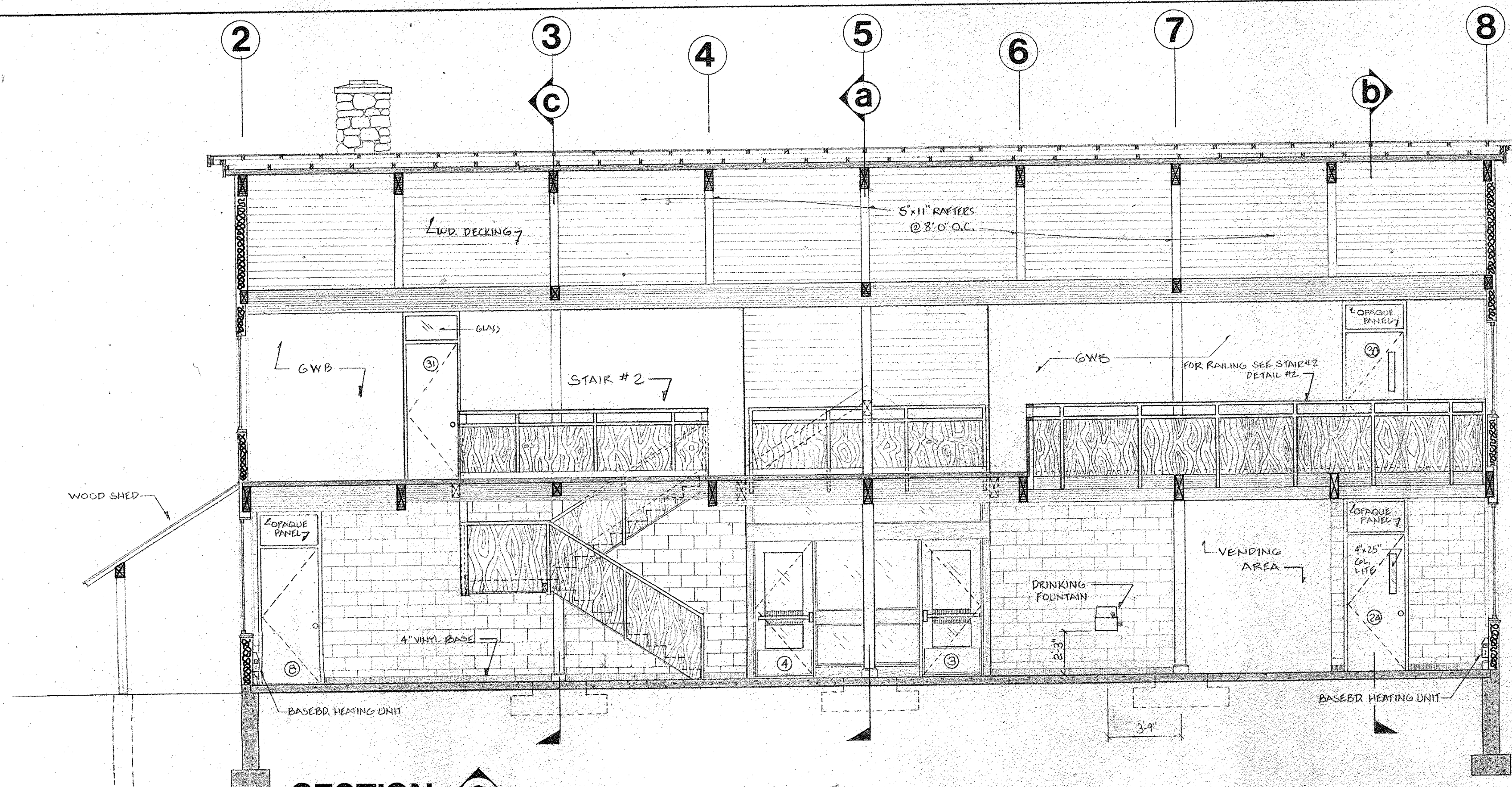
NOTE
SEE DWG. A-7 FOR WINDOW UNITS
AT INTERIOR WALL OF "AIR SIDE" CORRIDOR-SECTION (h)

STATE OF VERMONT			
DIVISION OF STATE BUILDINGS			
AGENCY OF ADMINISTRATION			
MONTPELIER.		VERMONT	
RUTLAND TERMINAL BUILDING AIR 23-2024			
ELEVATIONS			
RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6-8-84	SCALE: 1/4" = 1'-0"	REVISIONS: 2/2/84 S.A. MULHORN	DWG. NO. A-5
DRAWN BY: JPO	APPROVED BY: RA FOR D.G.B.	8 OF 19	

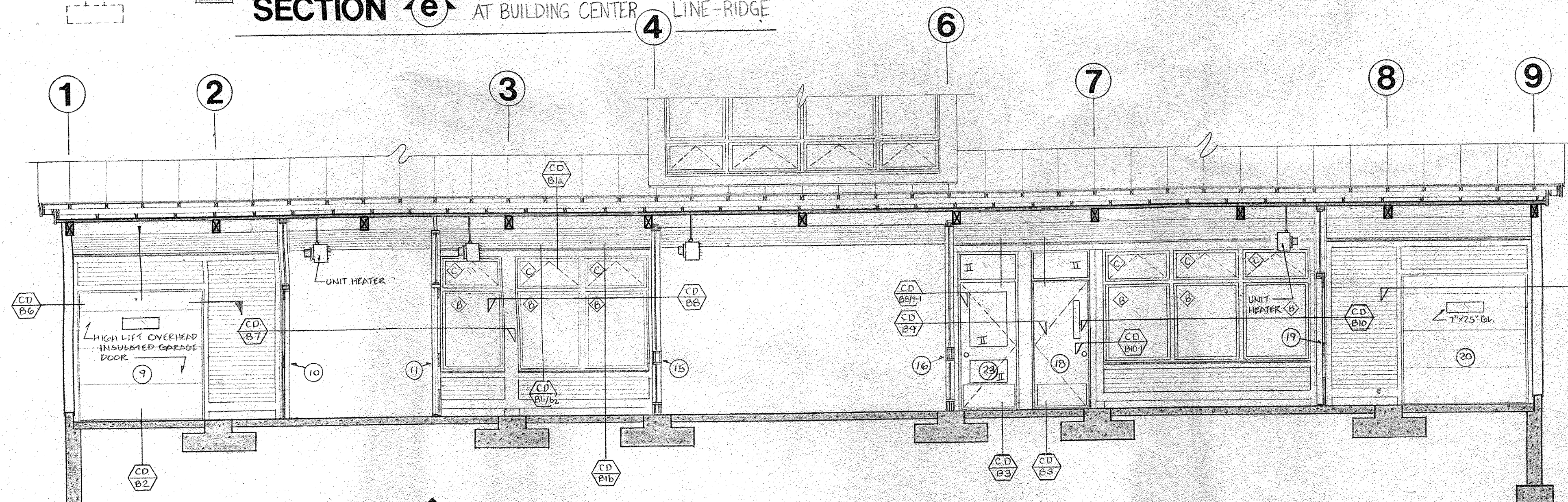
8/10/84



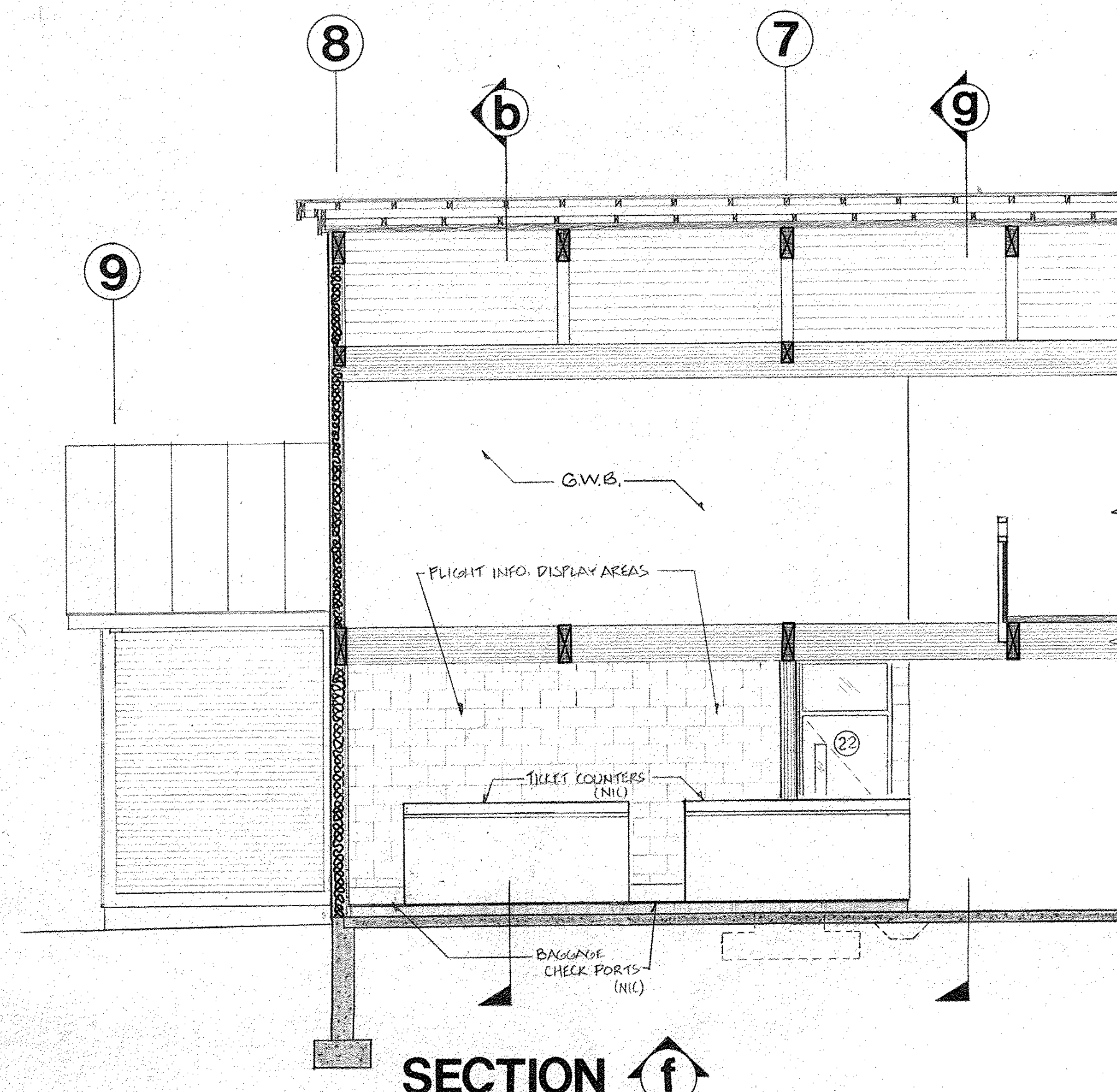
STATE OF VERMONT DIVISION OF STATE BUILDINGS AGENCY OF ADMINISTRATION MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING AIR 23-2024 SECTIONS/INT. ELEV. RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6-8-84	SCALE: 1/4" = 1'-0"	REVISIONS:	DWG. NO. A-6
DRAWN BY: JFD	APPROVED BY: 129 RLB		9 OF 19



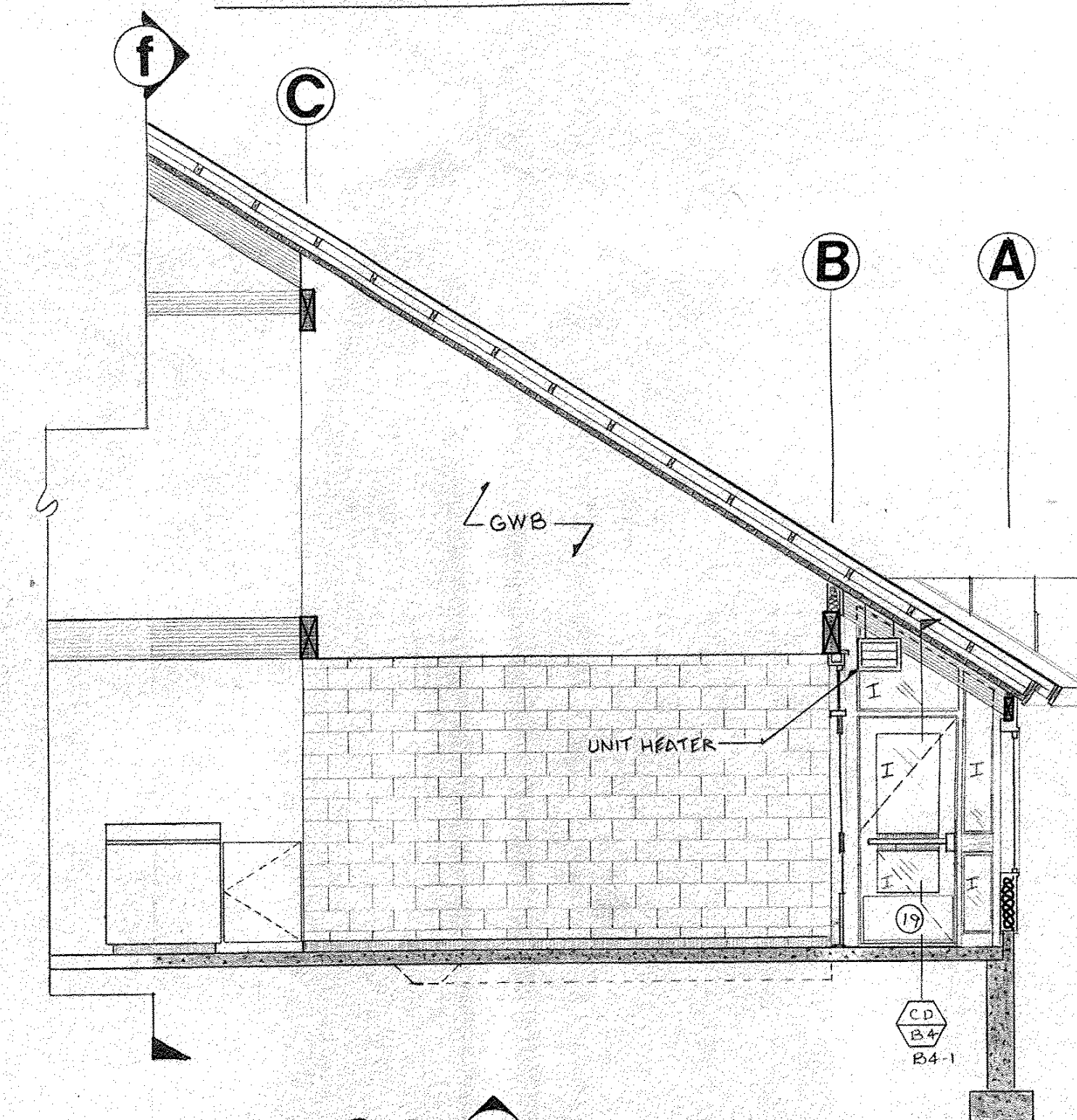
SECTION **e** AT BUILDING CENTER LINE-RIDGE



SECTION **h** INNER WALL AT "AIR-SIDE" CORRIDOR



SECTION **f**

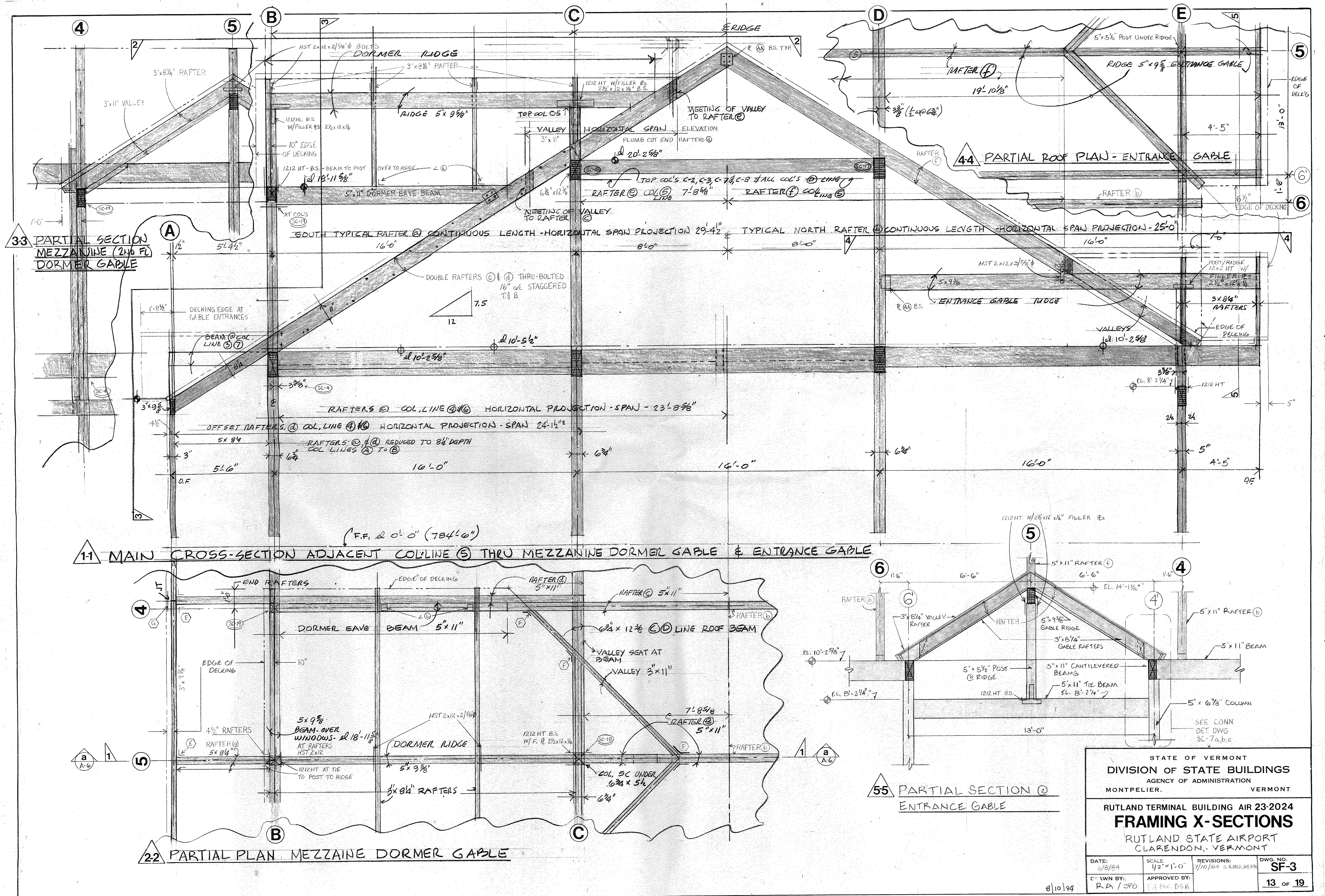


SECTION **g**

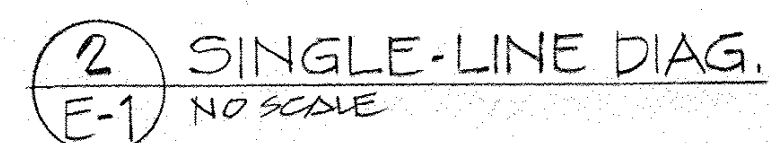
STATE OF VERMONT DIVISION OF STATE BUILDINGS AGENCY OF ADMINISTRATION MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING - AIR 23-2024 SECTIONS/INT. ELEV. RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6-8-84	SCALE: 1/4" = 1'-0"	REVISIONS: 6/29/84 SAMUELHER	DWG. NO. A-7
DRAWN BY: JPO	APPROVED BY: RA For DSP	10 OF 19	

9/10/84

STATE OF VERMONT DIVISION OF STATE BUILDINGS AGENCY OF ADMINISTRATION MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING AIR 23-2024 ROOF FRAMING RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6/8/84	SCALE: 1/4" = 1'-0"	REVISONS: 7/10/84 SA MULHREN	DWG. NO. SF-2
DRAWN BY: JPD	APPROVED BY: RA RAE DSB	<u>12</u> OF <u>19</u>	



J	WALL MOUNTED SINGLE-LAMP FLUOR. METAL BOX SHIELD, BRONZE FIN.	1-F40W	LIGHTOLIER CD4-4241
I1	SAME AS 'I', BUT WITH LO-TEMP BALLASTS		
J	SIMILAR TO 'I', BUT 8 FT LONG	2-F40W	LIGHTOLIER CD4-4281
K	WALL-MOUNTED SINGLE-LAMP FLUOR. OPAL ACRYLIC WRAP-AROUND DIFF'R	1-F40W	PRESCOLITE 3087
L	EXTERIOR INCAND. WALL BRACKET, 6 IN. DIA., BRONZE FIN.	A19 91W	PRESCOLITE 1165-363
M	INCAND. PENDANT 6-IN. CYLINDER BRONZE FIN.	PAR-38 136W FL	PRESCOLITE 1125-920
M1	SAME AS 'M'	R-30, 75W	
N	INCAND. SURFACE 5-IN. CYLINDER BRONZE FIN.	R-30 75W	PRESCOLITE 1102-910
O	FLUORESCENT SINGLE-LAMP VANDAL PROOF, POLY CARB LENS	F40W	KEWALL 7140
O1	SAME AS 'O' BUT WITH LO-TEMP BALLAST		



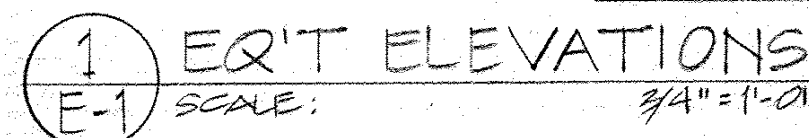
NAME PLATES

PLASTIC LAMINATE YELLOW
WY BLACK LETTERS

NP1 " PANEL 'MDP'
400A, 120/208V, 3-PH, 4W "

NP2 " PANEL 'LP1'
100A, 120/208V, 3-PH, 4W ") 'LP2' SIMILAR

NPS " EMERG'Y LIGHTING UNIT "



Branch circuits concealed in ceiling or wall, 2 No. 12 wires in raceway unless otherwise noted. Hash marks indicate number of wires when more than two.

Branch circuit as above concealed in floor or ground.

Branch circuit as above exposed.

Auxiliary circuit (T = telephone, S = sound, &c.).

Home run to panelboard or cabinet (No. of arrows = No. circuits).

A Fluorescent light fixture, ceiling mounted, with circuit number inside and type designation outside.

Fluorescent fixture, wall mounted, as above.

Fluorescent strip fixture, ceiling mounted, as above.

Fluorescent strip fixture, wall mounted, as above.

Incandescent fixture, ceiling mounted, as above. *PZ = FULL CHAIN*

Incandescent fixture, wall mounted, as above.

Exit light, ceiling mounted, directional arrows as required.

Exit light, wall mounted. *FACE INDICATED SELF ILLUMINATED*

Junction box installed in floor or ceiling.

Junction box installed in wall.

Duplex convenience outlet, 2P, 3W grounding type. *+ PZ" U.O.N. COORDINATE W/ ENG'D HEATERS*

Duplex outlet as above *SPLIT WIRED*

Convenience outlet installed in floor.

Special purpose outlet, rating as noted.

Clock outlet.

Telephone outlet.

Telephone outlet installed in floor.

Wall switch, single-pole (P = pilot light). *+ 4B" U.O.N.*

Wall switch, double-pole.

Wall switch, three-way (4 = 4-way).

Dimmer, rating as noted.

Panelboard, power.

Panelboard or load center, lighting.

Telephone cabinet.

Electric Motor with HP noted.

Fractional HP motor less than 1/3 HP.

Safety switch, HP-rated, non-fusible unless otherwise noted.

Magnetic motor starter, across-the-line unless otherwise noted.

Manual motor starter.

Dry-type transformer, rating as noted.

Fire alarm pull station.

Fire alarm bell with bell diameter noted.

Fire alarm annunciator panel.

Fire alarm control cabinet.

Fire alarm detector, temperature type.

Fire alarm detector, smoke type.

Signal outlet installed in ceiling (I = intercom, S = speaker, TV = television, M = microphone, PA = public address, V = volume control).

Signal outlet installed in floor.

Signal outlet installed in wall.

Ball.

Buzzer.

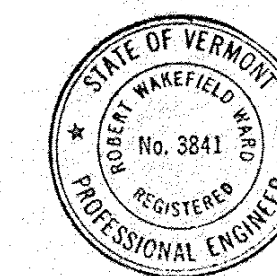
Push button.

T₁ STAT. PROVIDED BY MECH.

CEILING FAN, CONTRACTOR PROVIDED
TYPE 'A' 52", HUNTER 22272/22300
TYPE 'B' 38", HUNTER 22270/22300
COMPLETE W/ VARIABLE SPEED CONTROL

RUTLAND TERMINAL BUILDING AIR 23-2024
MEZZ. ELEC. PLAN & DETS.
RUTLAND STATE AIRPORT
CLARENDON, VERMONT

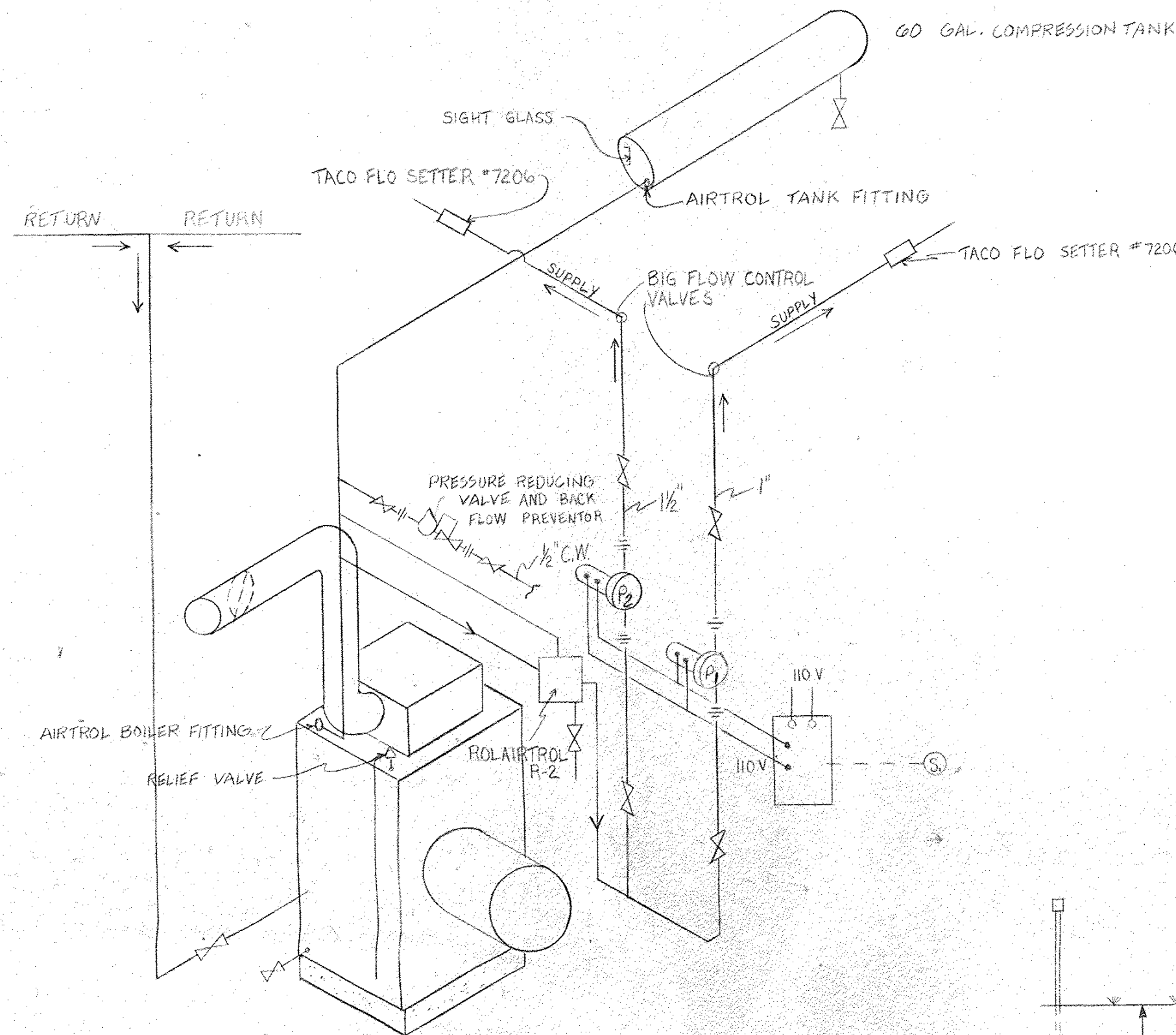
DATE: JUNE 21, 1984	SCALE: AS NOTED	REVISIONS:	DWG. NO. E-1
DRAWN BY:	APPROVED BY: J. J. J. J.		14 OF 1



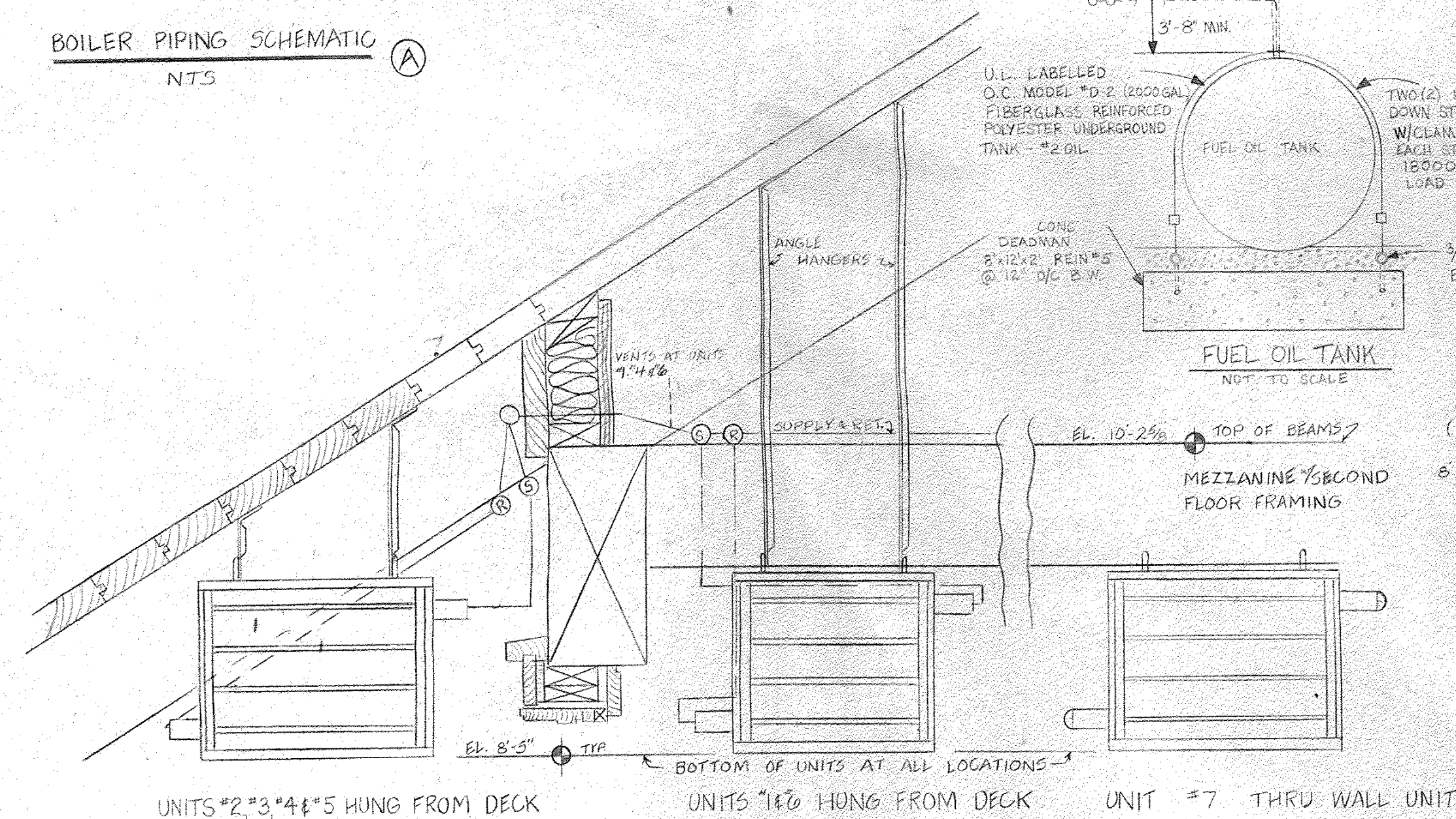
Wakefield Ward & Associates, Ltd
Consulting Electrical Engineer

8/10/84

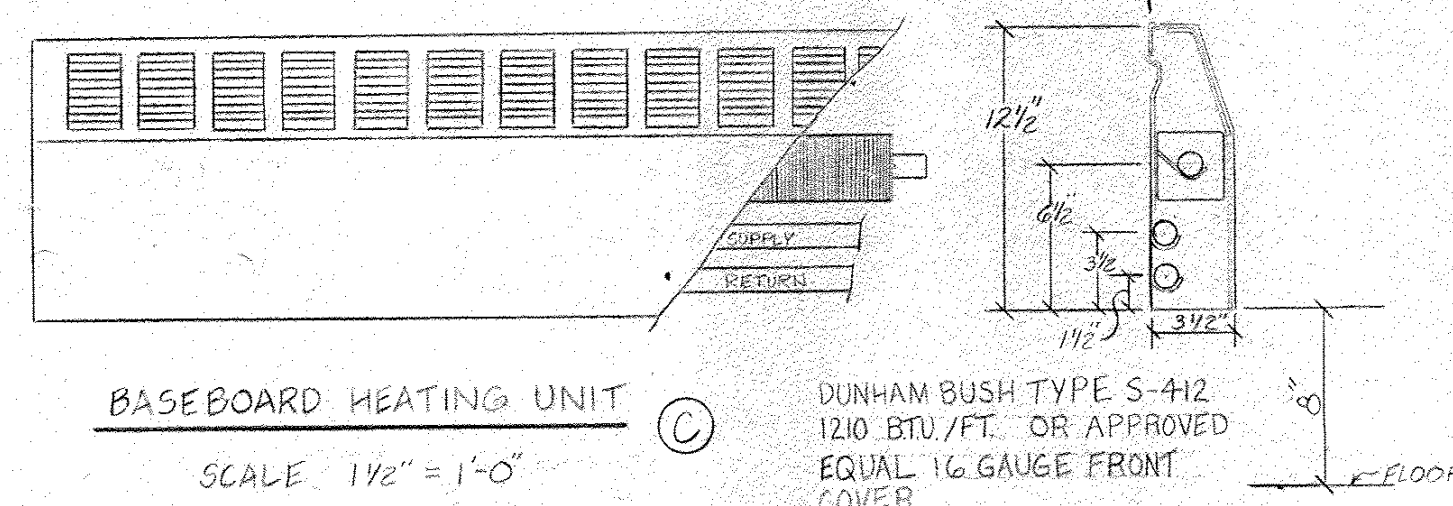
VOLTS 208/120		MAIN BKR		FEED: BOTTOM		TOP			
PHASE 2		LUGS ONLY		MTG: SURFACE		FLUSH			
NEUTRAL 4N		BKR TYPE 20		TYPE: PANELBO		LOAD CTR			
BUS 225A		BKR A.T.C. 100		DOOR: WITH		WITHOUT			
PANEL 'LP1'									
CKT NO.	LOAD	QTY	P	A	L1	L2	L3	A	P
1	LTG	1	1	20	800	360	350	900	20
2	"	1	1	20	800	360	350	900	20
3	"	1	1	20	800	360	350	900	20
4	"	1	1	20	800	360	350	900	20
5	"	1	1	20	800	360	350	900	20
6	"	1	1	20	800	360	350	900	20
7	"	1	1	20	800	360	350	900	20
8	"	1	1	20	800	360	350	900	20
9	"	1	1	20	800	360	350	900	20
10	"	1	1	20	800	360	350	900	20
11	"	1	1	20	800	360	350	900	20
12	"	1	1	20	800	360	350	900	20
13	"	1	1	20	800	360	350	900	20
14	"	1	1	20	800	360	350	900	20
15	"	1	1	20	800	360	350	900	20
16	"	1	1	20	800	360	350	900	20
17	"	1	1	20	800	360	350	900	20
18	"	1	1	20	800	360	350	900	20
19	"	1	1	20	800	360	350	900	20
20	"	1	1	20	800	360	350	900	20
21	"	1	1	20	800	360	350	900	20
22	"	1	1	20	800	360	350	900	20
23	"	1	1	20	800	360	350	900	20
24	"	1	1	20	800	360	350	900	20
25	"	1	1	20	800	360	350	900	20
26	"	1	1	20	800	360	350	900	20
27	"	1	1	20	800	360	350	900	20
28	"	1	1	20	800	360	350	900	20
29	"	1	1	20	800	360	350	900	20
30	"	1	1	20	800	360	350	900	20
31	"	1	1	20	800	360	350	900	20
32	"	1	1	20	800	360	350	900	20
33	"	1	1	20	800	360	350	900	20
34	"	1	1	20	800	360	350	900	20
35	"	1	1	20	800	360	350	900	20
36	"	1	1	20	800	360	350	900	20
37	"	1	1	20	800	360	350	900	20
38	"	1	1	20	800	360	350	900	20
39	"	1	1	20	800	360	350	900	20
40	"	1	1	20	800	360	350	900	20
41	"	1	1	20	800	360	350	900	20
42	"	1	1	20	800	360	350	900	20
SUB-TOTAL									
CONNECTED LOAD / PHASE									
DEMAND LOAD / PHASE 2.06 DF: 0.5									
TOTAL DEMAND LOAD									



BOILER PIPING SCHEMATIC
NTS

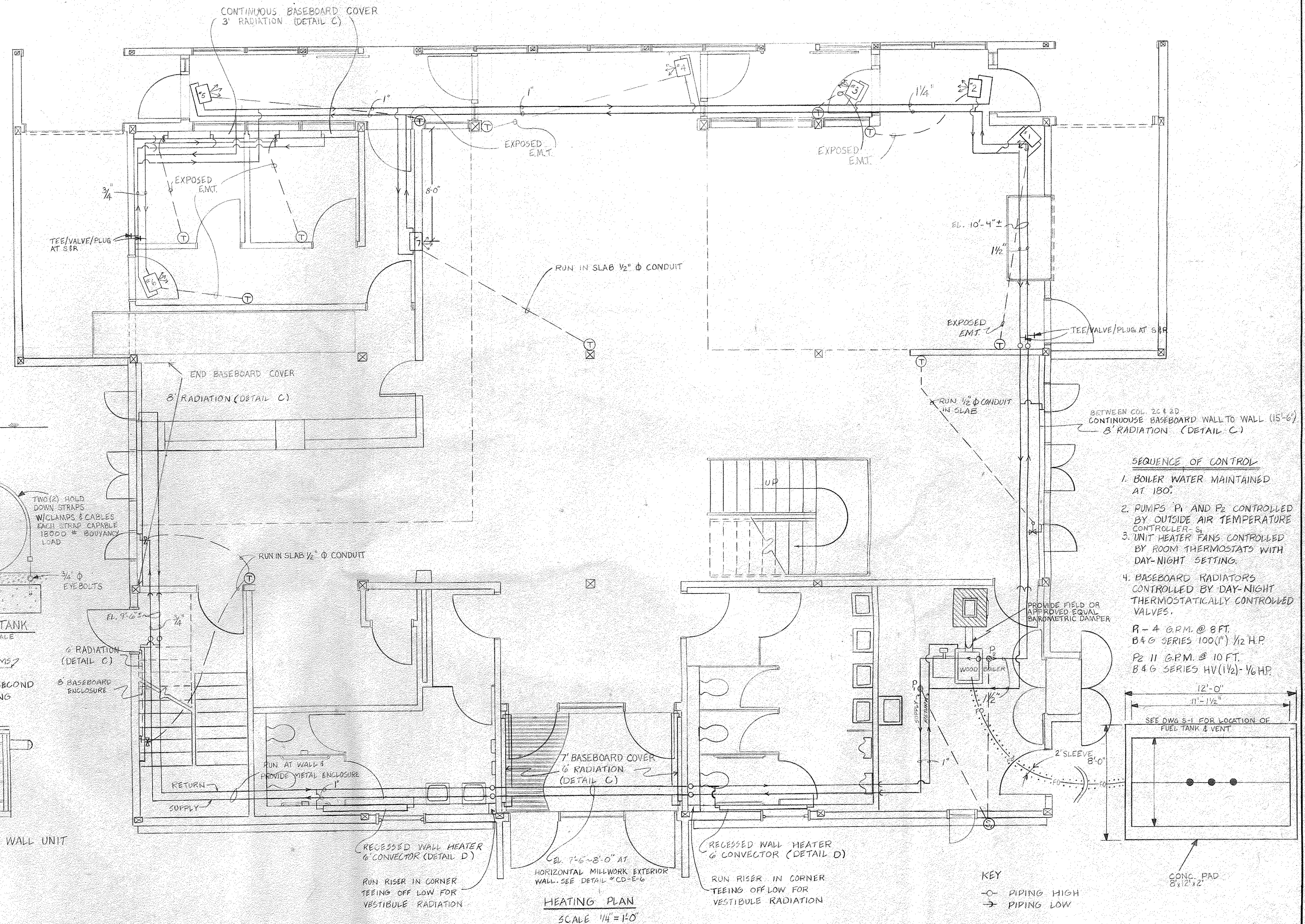


HEATING DETAIL
SCALE 1 1/2" = 1'-0"

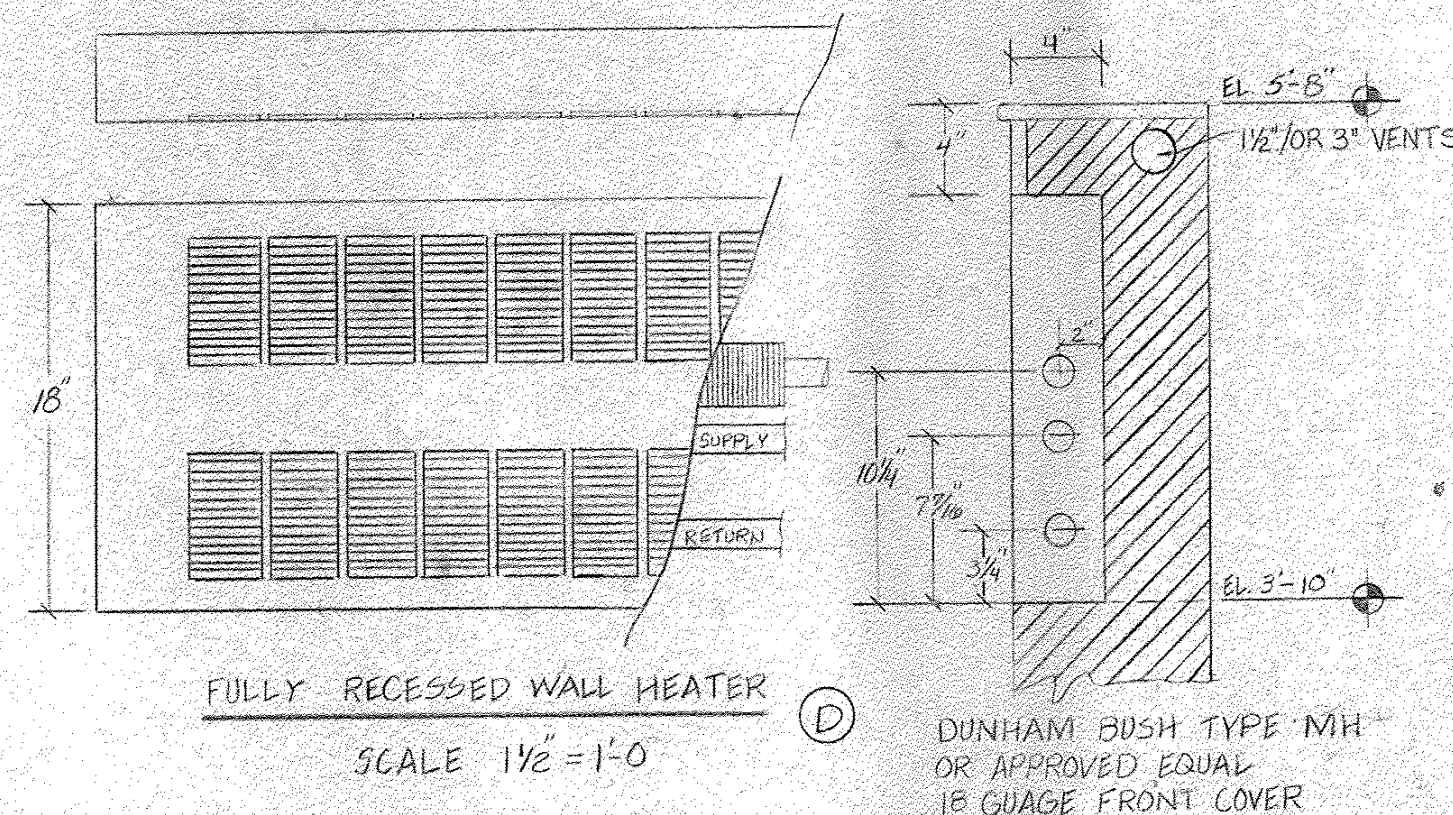


BASEBOARD HEATING UNIT
SCALE 1 1/2" = 1'-0"

DUNHAM BUSH TYPE S-412
1200 BTU/FT. OR APPROVED
EQUAL 1/2 GAUGE FRONT
COVER

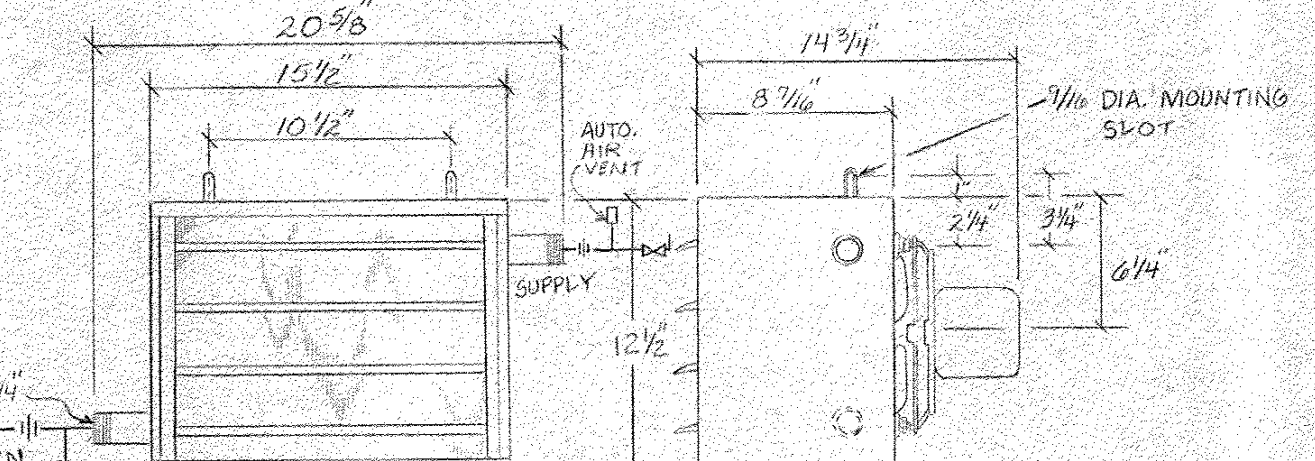


HEATING PLAN
SCALE 1/4" = 1'-0"



FULLY RECESSED WALL HEATER
SCALE 1 1/2" = 1'-0"

DUNHAM BUSH TYPE MH
OR APPROVED EQUAL
1/2 GAUGE FRONT COVER

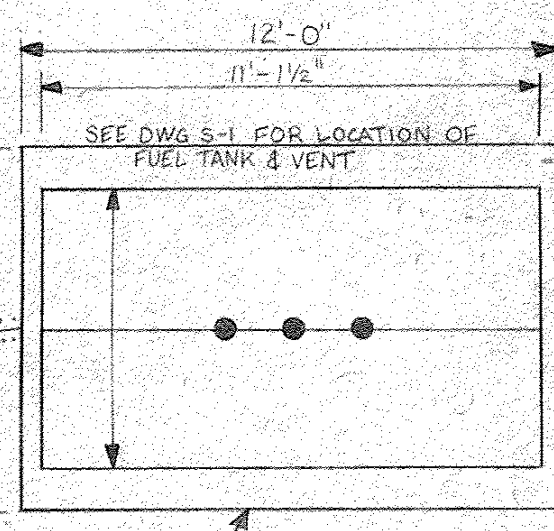


UNIT HEATER
SCALE 1 1/2" = 1'-0"

DUNHAM BUSH H 100 C
OR APPROVED EQUAL
14,200 BTU

- SEQUENCE OF CONTROL
1. BOILER WATER MAINTAINED AT 180°
 2. PUMPS P1 AND P2 CONTROLLED BY OUTSIDE AIR TEMPERATURE CONTROLLER-S
 3. UNIT HEATER FANS CONTROLLED BY ROOM THERMOSTATS WITH DAY-NIGHT SETTING
 4. BASEBOARD RADIATORS CONTROLLED BY DAY-NIGHT THERMOSTATICALLY CONTROLLED VALVES.

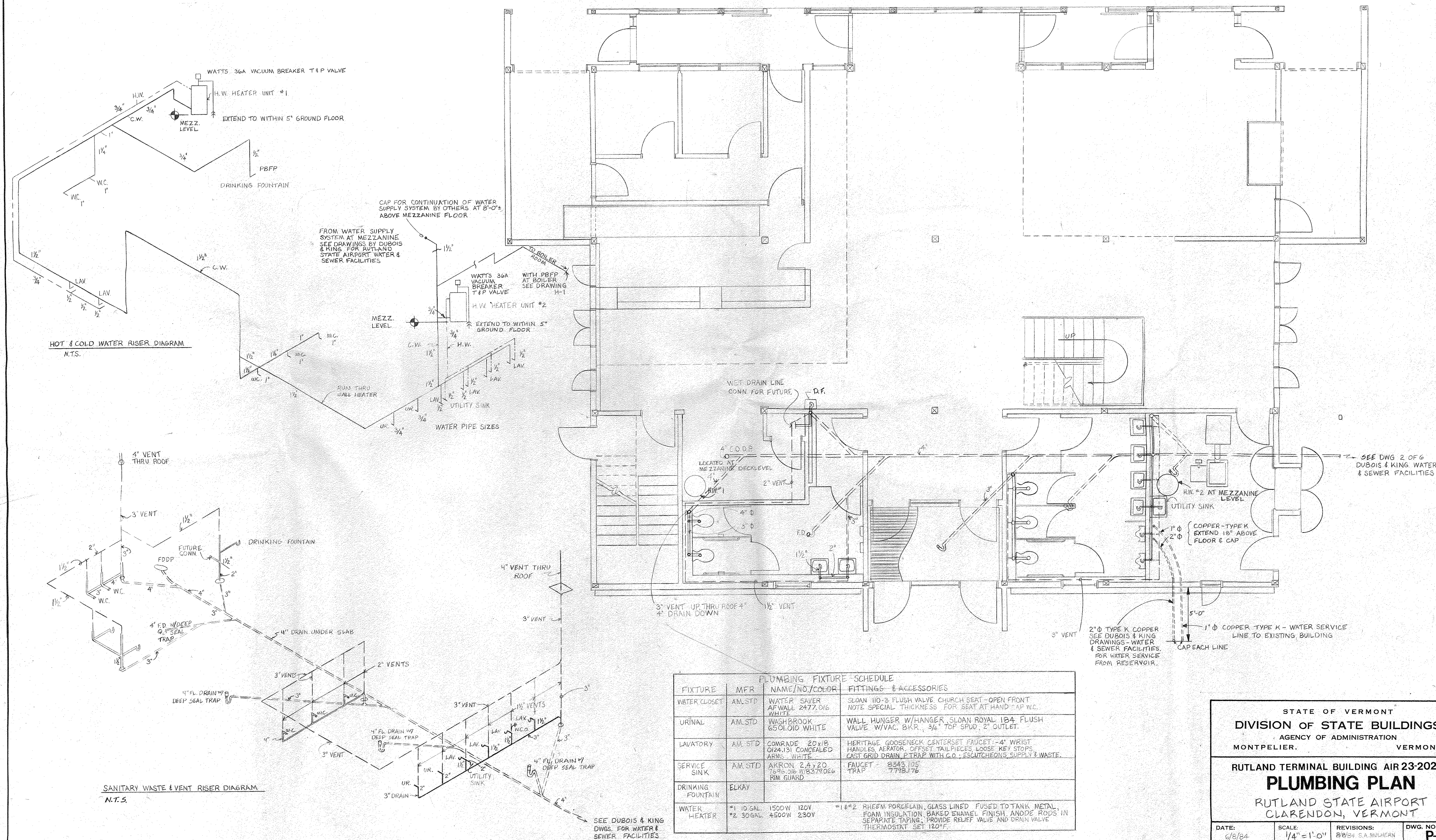
R-4 G.P.M. @ 8 FT.
B & G SERIES 100 (1") 1/2 H.P.
P2 11 G.P.M. @ 10 FT.
B & G SERIES HV (1 1/2") 1/6 H.P.



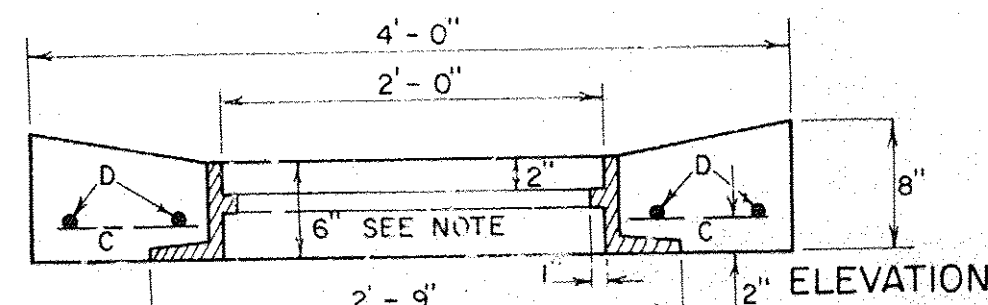
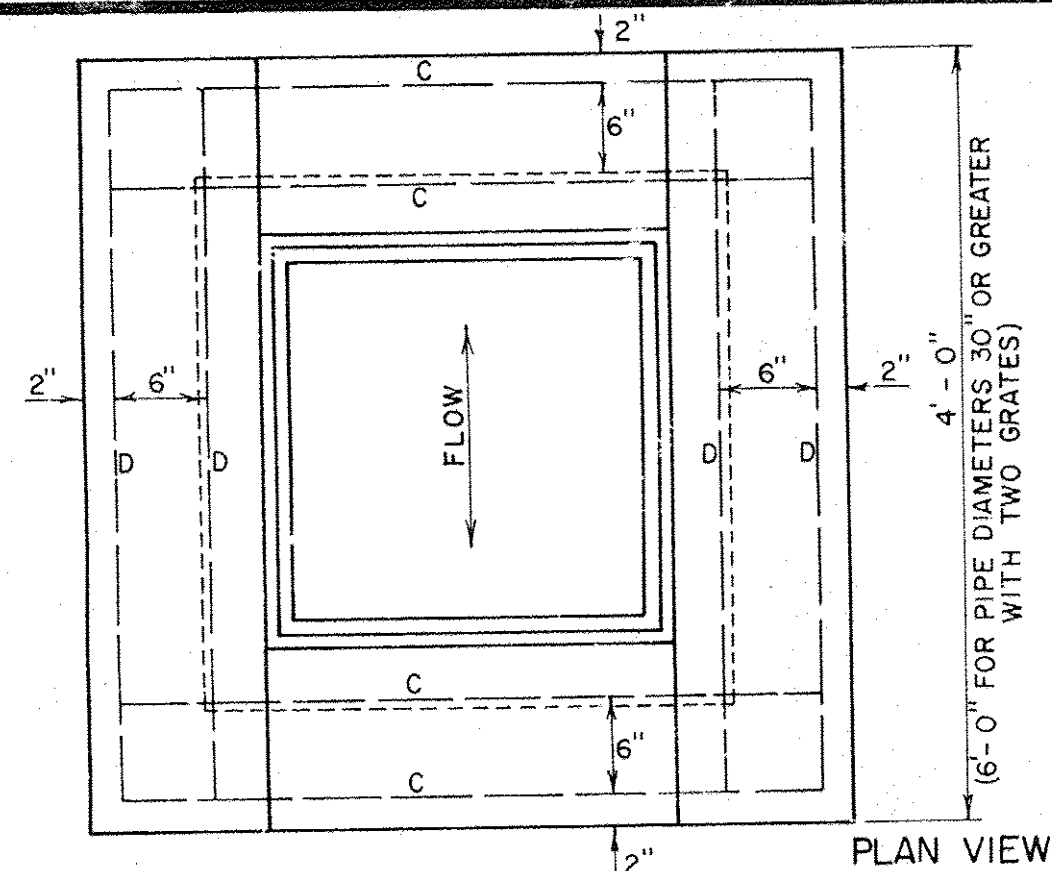
KEY
- PIPING HIGH
- PIPING LOW

STATE OF VERMONT DIVISION OF STATE BUILDINGS AGENCY OF ADMINISTRATION MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING AIR 23-2024 HEATING PLAN RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6/8/84	SCALE: AS NOTED	REVISIONS: 6/8/84 S.A. MULHERRY	DWG. NO. H-1
DRAWN BY: R. TETREAULT	APPROVED BY: [Signature]	16 of 19	

9/10/84

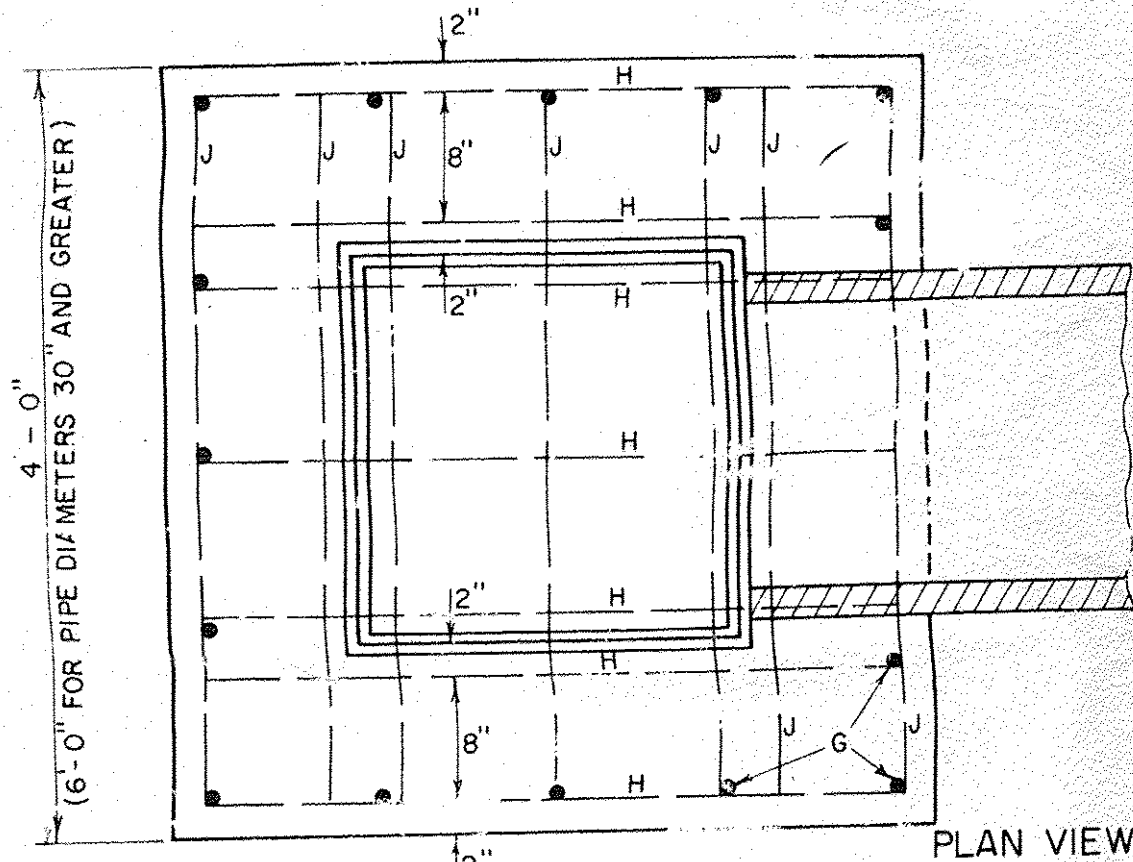


STATE OF VERMONT			
DIVISION OF STATE BUILDINGS			
AGENCY OF ADMINISTRATION			
MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING AIR 23-2024			
PLUMBING PLAN			
RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6/8/84	SCALE: 1/4" = 1'-0"	REVISIONS: 8/8/84 S.A. MULHEARN	DWG. NO. P-1
DRAWN BY: R.B.T.	APPROVED BY: R.A. FOR DSB	17 OF 19	

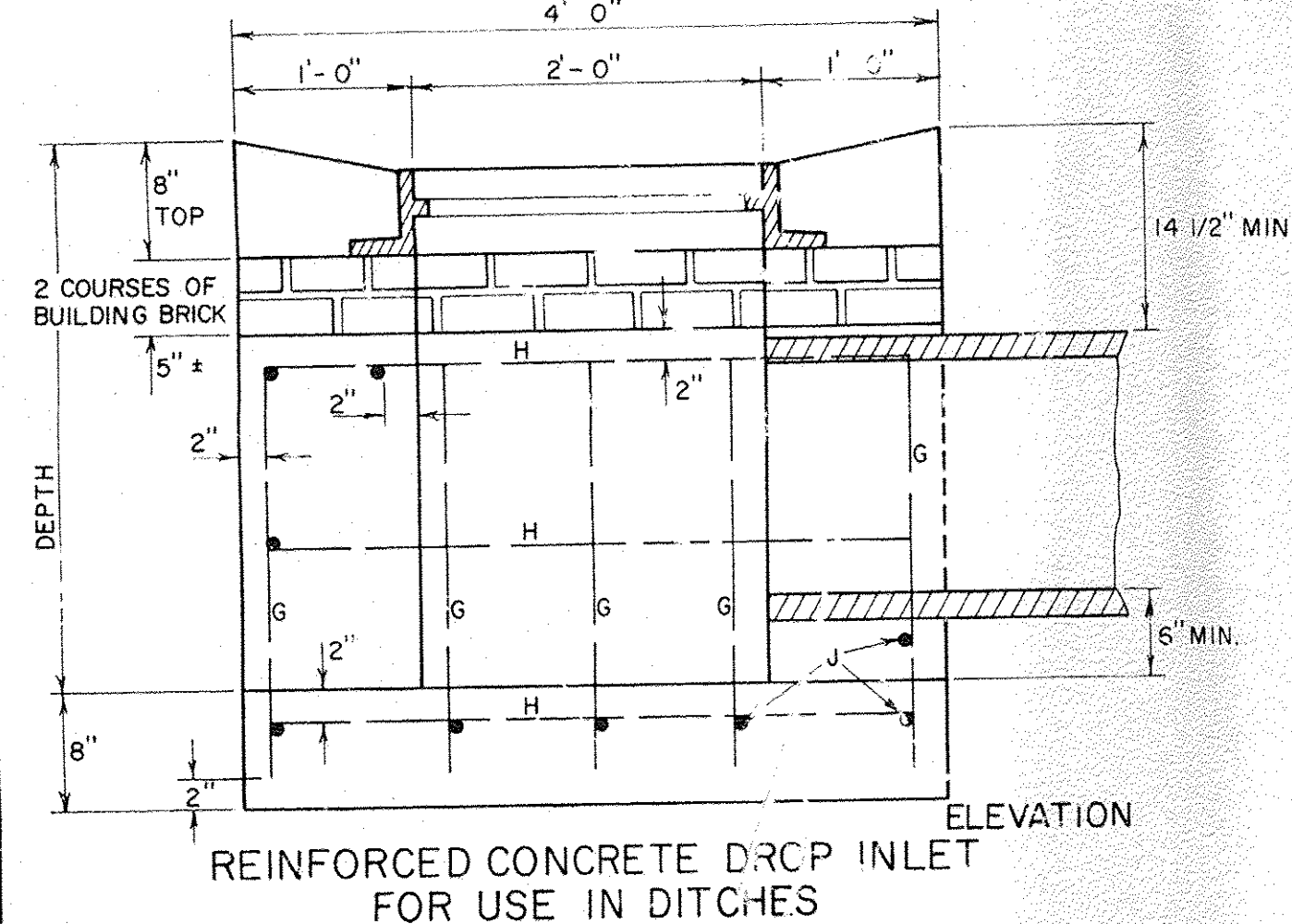


NOTE—FRAME SHOWN IS FOR TYPE A GRATE, SEE SHEET D-11. FOR TYPE B GRATE AND FRAME, SEE SHEET D-16 (EXCEPT THE FRAME DEPTH DIMENSION SHALL BE 6").

TOP FOR REINFORCED CONCRETE DROP INLET WITH GRATE FOR USE IN DITCHES



— TYPE A —

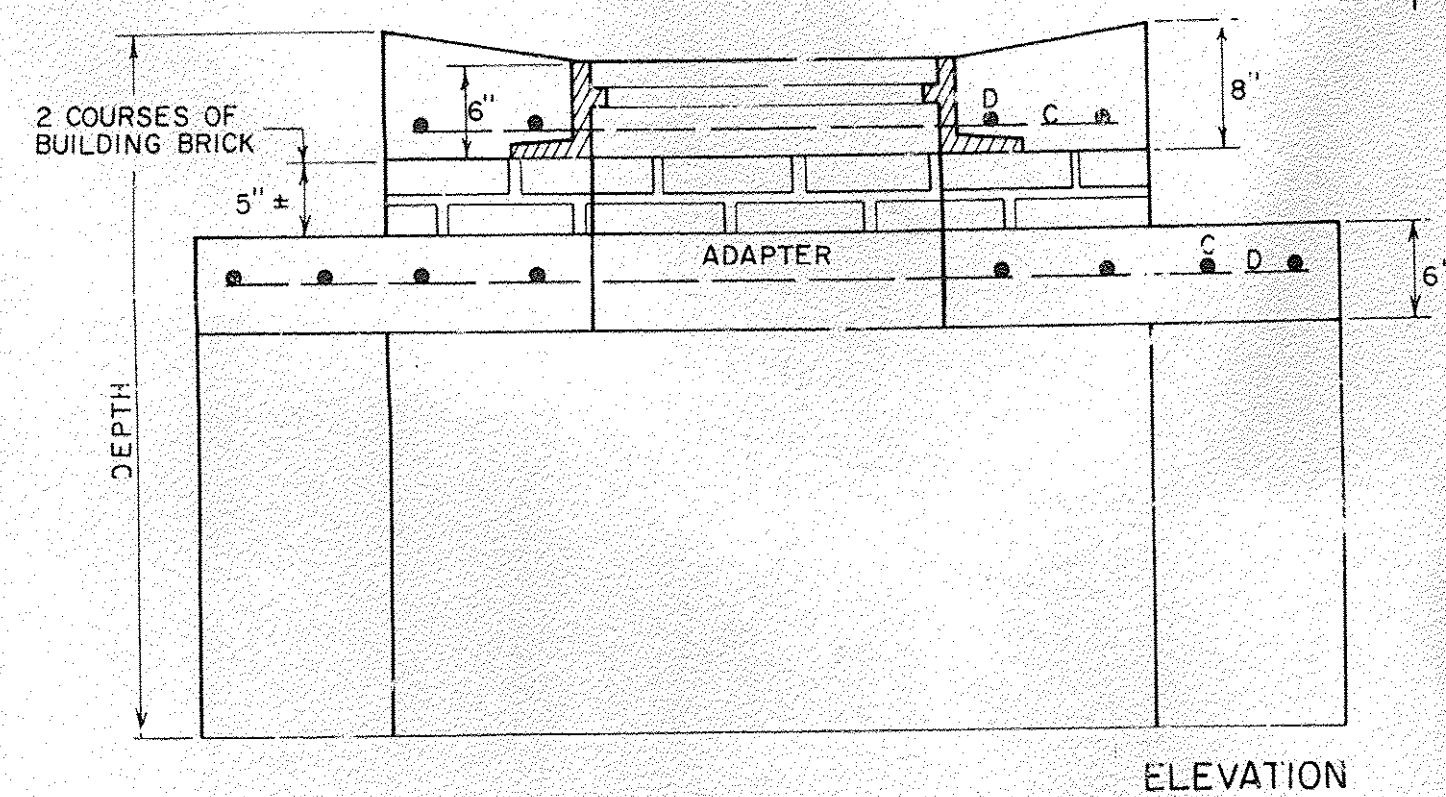


REINFORCED CONCRETE DROP INLET FOR USE IN DITCHES

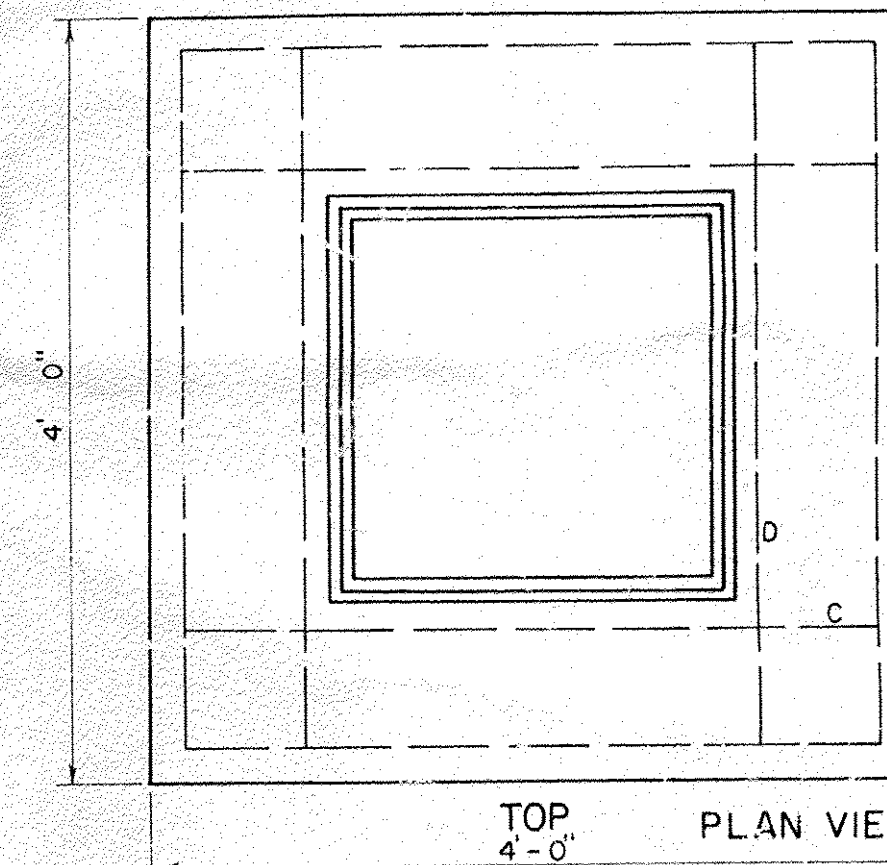
STEEL SCHEDULE																							
4x4 DROP INLET TYPE A												4x6 DROP INLET WITH TWO GRATES TYPE B											
12" 15" 18" 24"												30" 36"											
DEPTH	G	LENGTH	H	J	LENGTH	C	D	LENGTH	G	LENGTH	H	LENGTH	J	LENGTH	C	LENGTH	D	LENGTH	DEPTH	G	LENGTH	H	LENGTH
3'-0"	15	2'-3"	22	3'-8"	8	3'-8"													3'-0"				
3'-6"	15	2'-9"	22	3'-8"	8	3'-8"													3'-6"				
4'-0"	15	3'-3"	29	3'-8"	8	3'-8"			17	3'-3"	19	3'-8"	10	5'-8"	4	3'-8"	4	5'-8"	4'-0"				
4'-6"	15	3'-9"	29	3'-8"	8	3'-8"			17	3'-9"	19	3'-8"	10	5'-8"	4	3'-8"	4	5'-8"	4'-6"				
5'-0"	15	4'-3"	35	3'-8"	8	3'-8"			17	4'-3"	23	3'-8"	13	5'-8"	4	3'-8"	4	5'-8"	5'-0"				
5'-6"	15	4'-9"	35	3'-8"	8	3'-8"			17	4'-9"	23	3'-8"	13	5'-8"	4	3'-8"	4	5'-8"	5'-6"				
6'-0"	15	5'-3"	41	3'-8"	8	3'-8"			17	5'-3"	27	3'-8"	15	5'-8"	4	3'-8"	4	5'-8"	6'-0"				
6'-6"	15	5'-9"	41	3'-8"	8	3'-8"			17	5'-9"	31	3'-8"	15	5'-8"	4	3'-8"	4	5'-8"	6'-6"				
7'-0"	15	6'-3"	47	3'-8"	8	3'-8"			17	6'-3"	35	3'-8"	17	5'-8"	4	3'-8"	4	5'-8"	7'-0"				
7'-6"	15	6'-9"	47	3'-8"	8	3'-8"			17	6'-9"	35	3'-8"	17	5'-8"	4	3'-8"	4	5'-8"	7'-6"				
8'-0"	15	7'-3"	53	3'-8"	8	3'-8"			17	7'-3"	39	3'-8"	19	5'-8"	4	3'-8"	4	5'-8"	8'-0"				

STEEL AND CONCRETE QUANTITIES												STEEL SCHEDULE TYPE D											
4'x4' DROP INLET				4'x6' DROP INLET WITH TWO GRATES				4'x6' DROP INLET WITH ONE GRATE				4'x6' DROP INLET WITH ONE GRATE WITH 4'x4' TOP											
DEPTH	12" - 15" - 18" - 24" TYPE A		30" TYPE B		36" TYPE C		DEPTH	30" TYPE C		36" TYPE D		DEPTH	6' LENGTH		8' LENGTH		10' LENGTH		12' LENGTH		14' LENGTH		
	CONCRETE C.Y.	STEEL LBS.	CONCRETE C.Y.	STEEL LBS.	CONCRETE C.Y.	STEEL LBS.		CONCRETE C.Y.	STEEL LBS.	CONCRETE C.Y.	STEEL LBS.		CONCRETE C.Y.	STEEL LBS.	CONCRETE C.Y.	STEEL LBS.	CONCRETE C.Y.	STEEL LBS.	CONCRETE C.Y.	STEEL LBS.	CONCRETE C.Y.	STEEL LBS.	
3'-0"	1.7	150					3'-0"						17	3'-7"	23	3'-8"	13	5'-8"	12	3'-8"	4	5'-8"	5'-0"
3'-6"	1.9	158					3'-6"						17	4'-1"	23	3'-8"	13	5'-8"	12	3'-8"	4	5'-8"	5'-6"
4'-0"	2.1	193					4'-0"	2.8	244				17	4'-7"	27	3'-8"	15	5'-8"	12	3'-8"	4	5'-8"	6'-0"
4'-6"	2.3	200	3.0	228	2.9	237	4'-6"	3.1	252	3.0	252	4'-6"	17	5'-1"	31	3'-8"	15	5'-8"	12	3'-8"	4	5'-8"	6'-6"
5'-0"	2.3	200	3.3	279	3.2	279	5'-0"	3.4	294	3.3	294	5'-0"	17	5'-7"	35	3'-8"	17	5'-8"	12	3'-8"	4	5'-8"	7'-0"
5'-6"	2.8	239	3.6	288	3.5	288	5'-6"	3.7	303	3.6	303	5'-6"	17	6'-1"	35	3'-8"	17	5'-8"	12	3'-8"	4	5'-8"	7'-6"
6'-0"	3.0	270	3.9	324	3.8	324	6'-0"	4.0	339	3.9	339	6'-0"	17	6'-7"	39	3'-8"	19	5'-8"	12	3'-8"	4	5'-8"	8'-0"
6'-6"	3.2	278	4.2	348	4.1	348	6'-6"	4.3	363	4.2	363	6'-6"											
7'-0"	3.5	308	4.5	384	4.4	384	7'-0"	4.6	399	4.5	399	7'-0"											
7'-6"	3.7	316	4.8	393	4.7	393	7'-6"	4.9	408	4.8	408	7'-6"											
8'-0"	3.9	347	5.1	429	5.0	429	8'-0"	5.2	444	5.1	444	8'-0"											

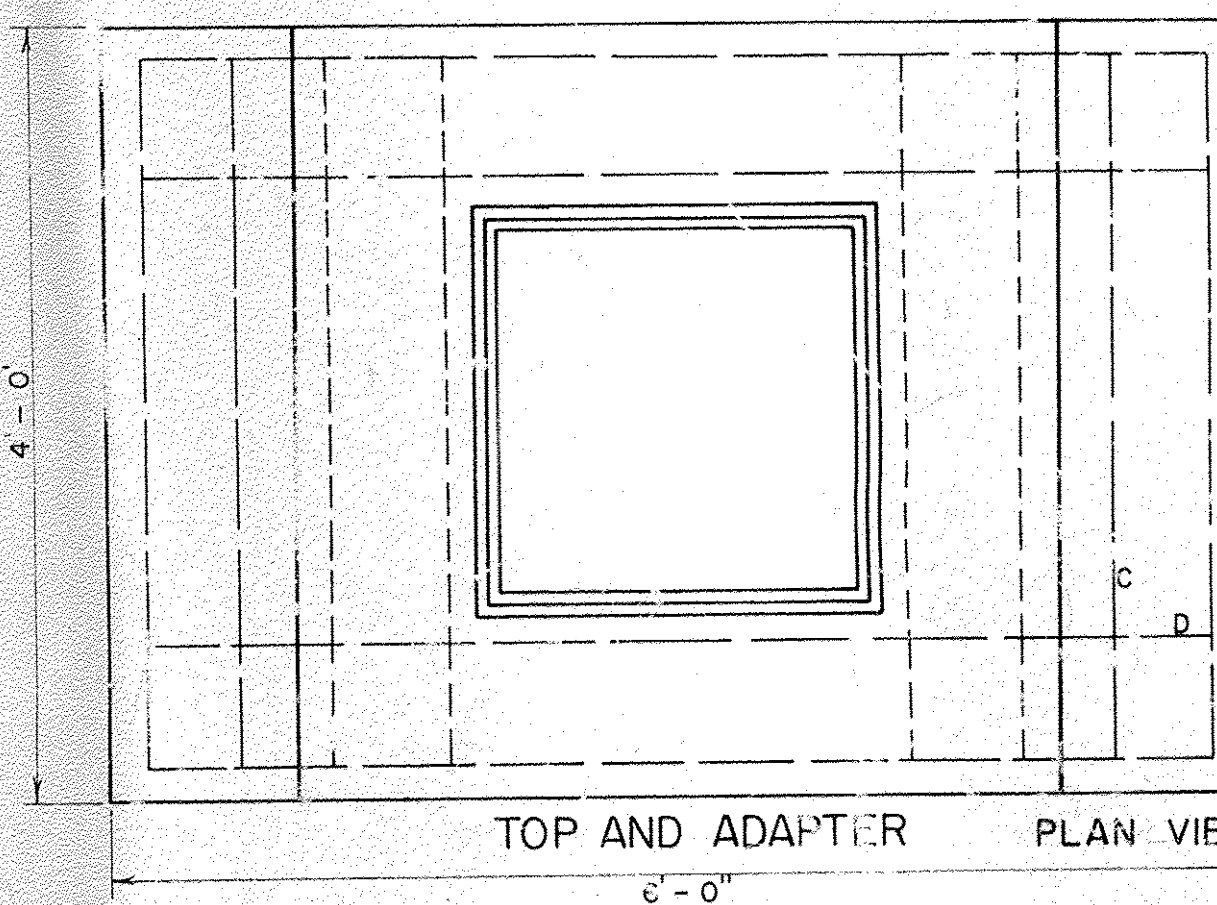
ALL REINFORCING STEEL TO BE NO. 5 DEFORMED BARS, EVENLY SPACED WITH A MAXIMUM SPACING OF 12" C/C.
ALL STEEL TO HAVE 2 INCH MIN. COVER.
DROP INLET TO BE CONSTRUCTED IN ACCORDANCE WITH STRUCTURAL CONCRETE, SECTION 501.
GRATES TO CONFORM TO DROP INLETS, CATCH BASINS, AND MANHOLES, SECTION 604.
FURNISHING AND LAYING OF BRICKS FOR ADJUSTING ELEVATION OF GRATE SHALL BE INCLUDED IN UNIT BID PRICE FOR CONCRETE, CLASS B, PAY ITEM 501.25, AND THEIR VOLUME TO BE INCLUDED IN THE FINAL QUANTITIES.
MORTAR, TYPE II, TO BE USED AS JOINT FILLER AND LAYING OF BRICK.
FOR PIPES OF 30" OR MORE IN DIAMETER, ALLOWANCE SHALL BE MADE FOR THE OPENING IN COMPUTING CONCRETE VOLUMES. THIS DEDUCTION WILL BE BASED ON THE RATED DIAMETER OF THE PIPE USED, WITH THE SAME DEDUCTION FOR CONCRETE AND METAL PIPE. ABOVE TABLES INDICATE DEDUCTION FOR ONE PIPE.



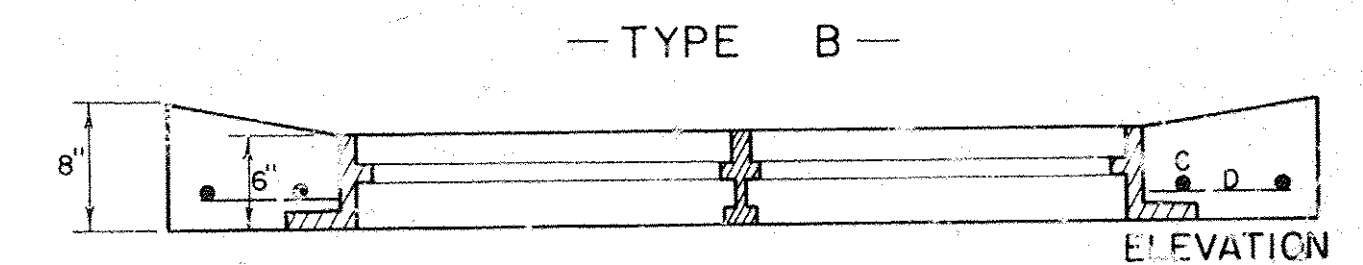
4x6 DROP INLET WITH 4x4 TOP TOP WITH ONE CAST IRON GRATE



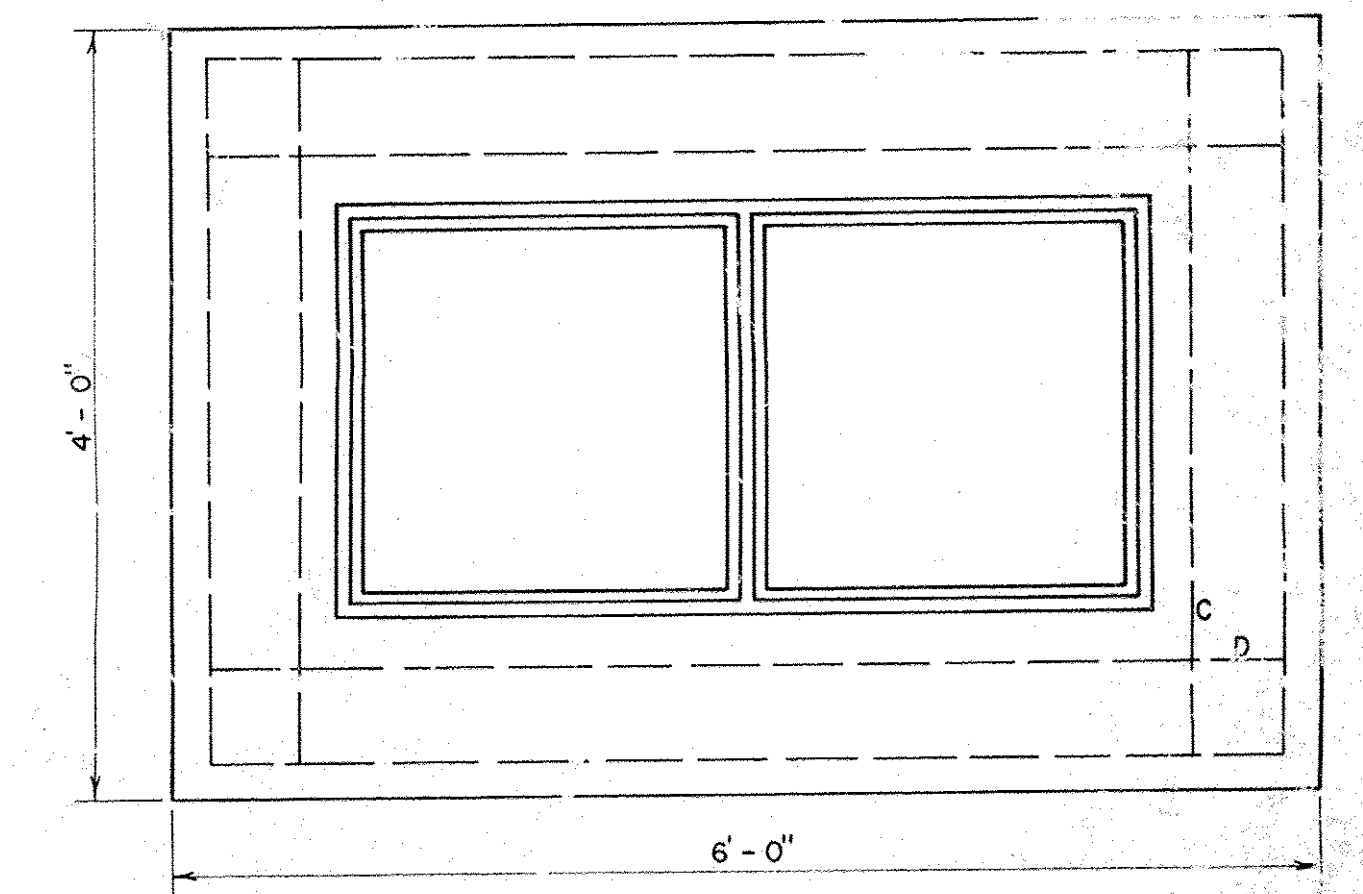
TOP PLAN VIEW



TOP AND ADAPTER PLAN VIEW



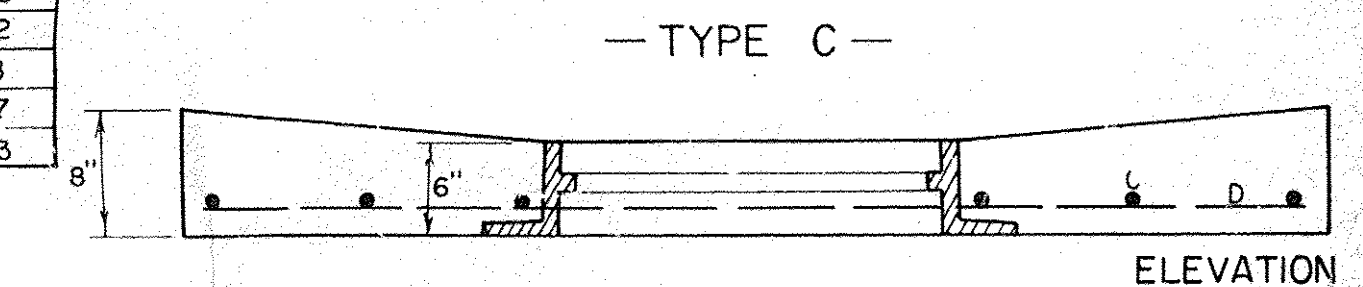
— TYPE B —



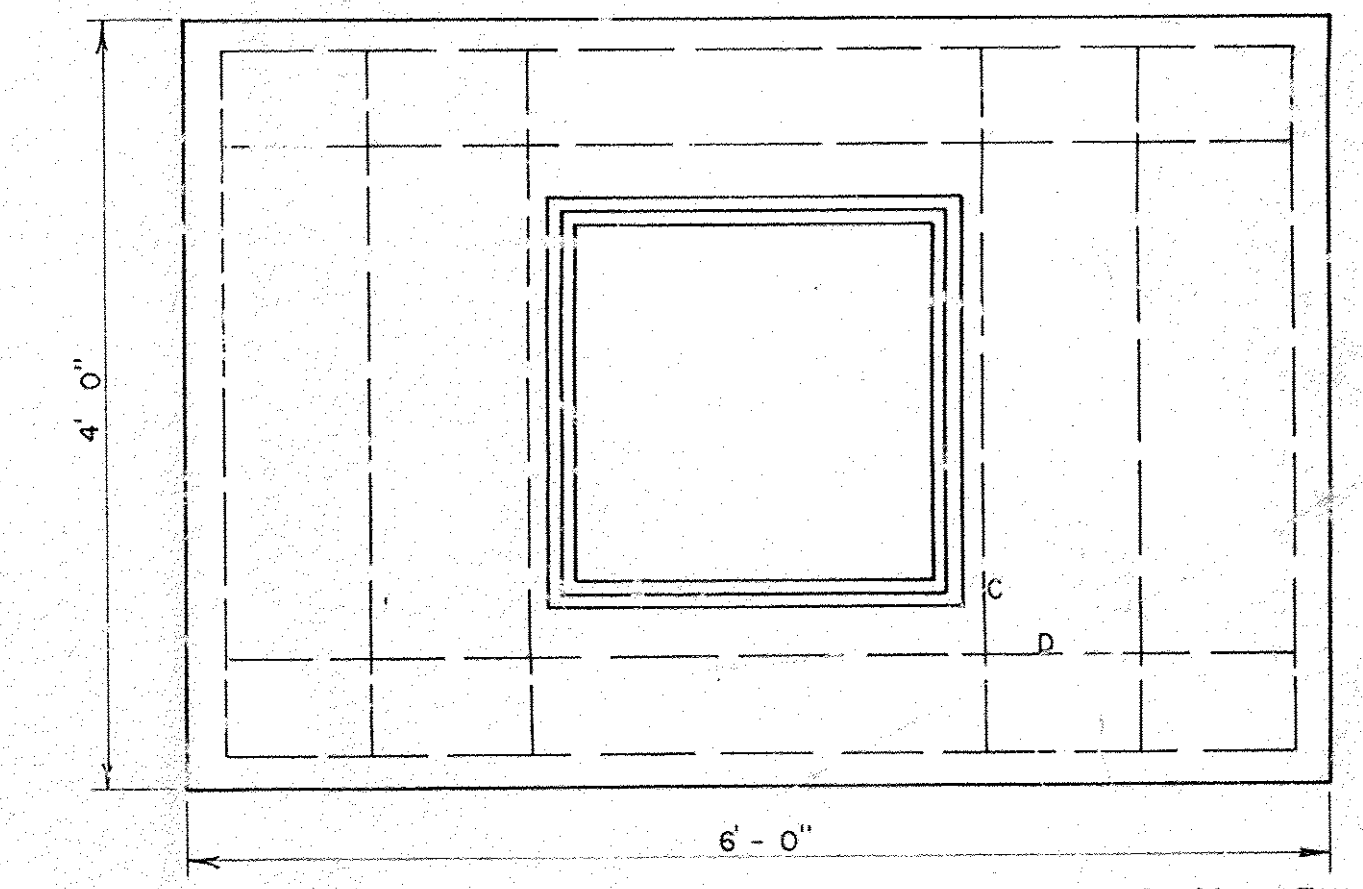
PLAN VIEW

4x6 DROP INLET TOP WITH TWO CAST IRON GRATES

STEEL AND CONCRETE QUANTITIES			
4x6 DROP INLET WITH ONE GRATE WITH 4x4 TOP TYPE D			
DEPTH	CONCRETE C.Y.	STEEL LBS.	CONCRETE C.Y.
5'-0"	3.2	313	3.1
5'-6"	3.5	322	3.4
6'-0"	3.8	358	3.7
6'-6"	4.1	382	4.0
7'-0"	4.4	413	4.3
7'-6"	4.7	427	4.6
8'-0"	5.0	463	4.9



ELEVATION



PLAN VIEW

4x6 DROP INLET TOP WITH ONE CAST IRON GRATE

REVISIONS AND CORRECTIONS
APR. 2, 1973—ORIGINAL D-6 REDRAWN

APPROVED
April 4, 1973
DATE

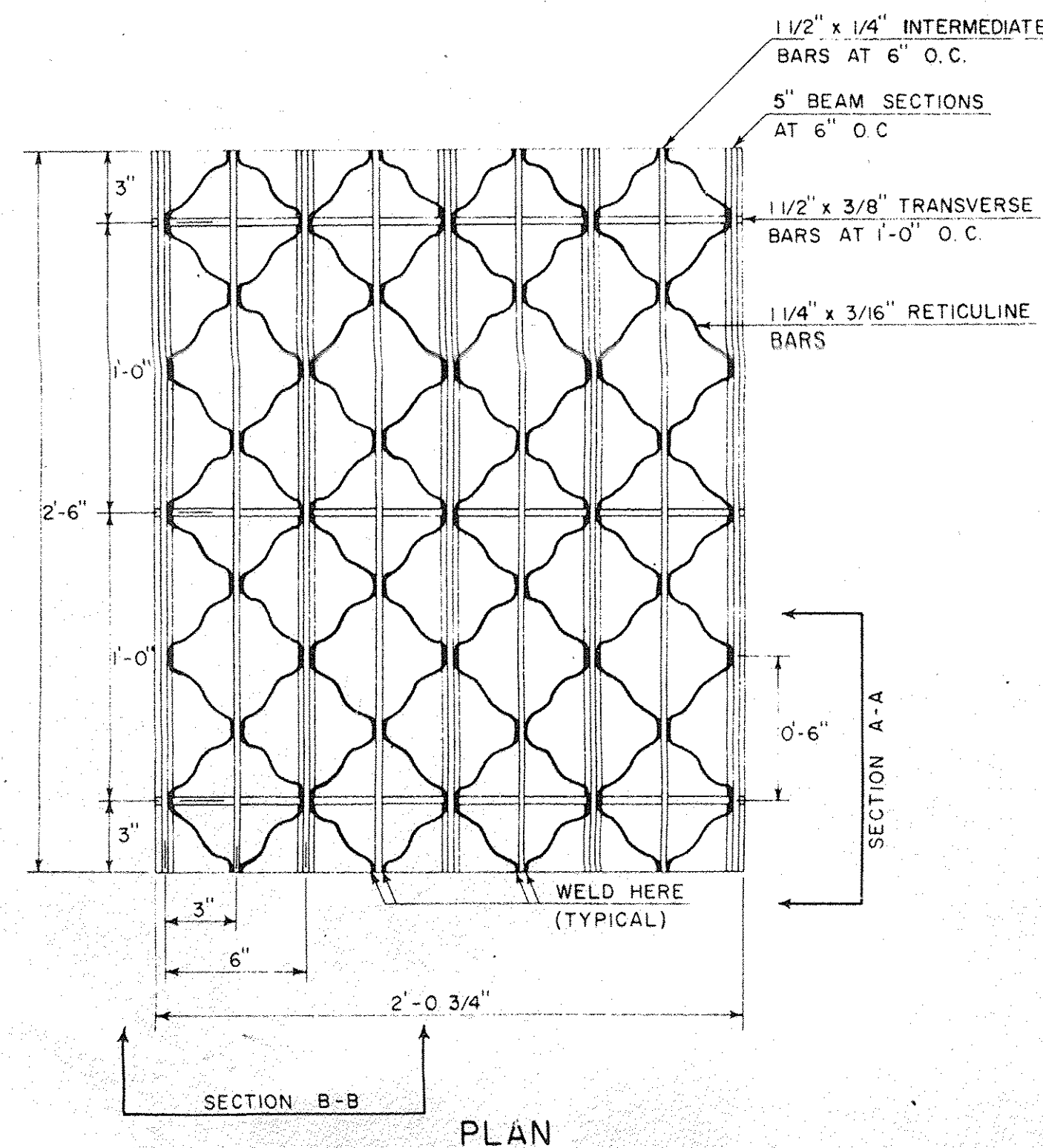
R. H. Arnold
CHIEF ENGINEER
E. H. Stearns
ASST. CHIEF ENGINEER
J. M. Law
HIGHWAY ENGINEER

REINFORCED CONCRETE DROP INLET WITH GRATE
FOR USE IN DITCHES

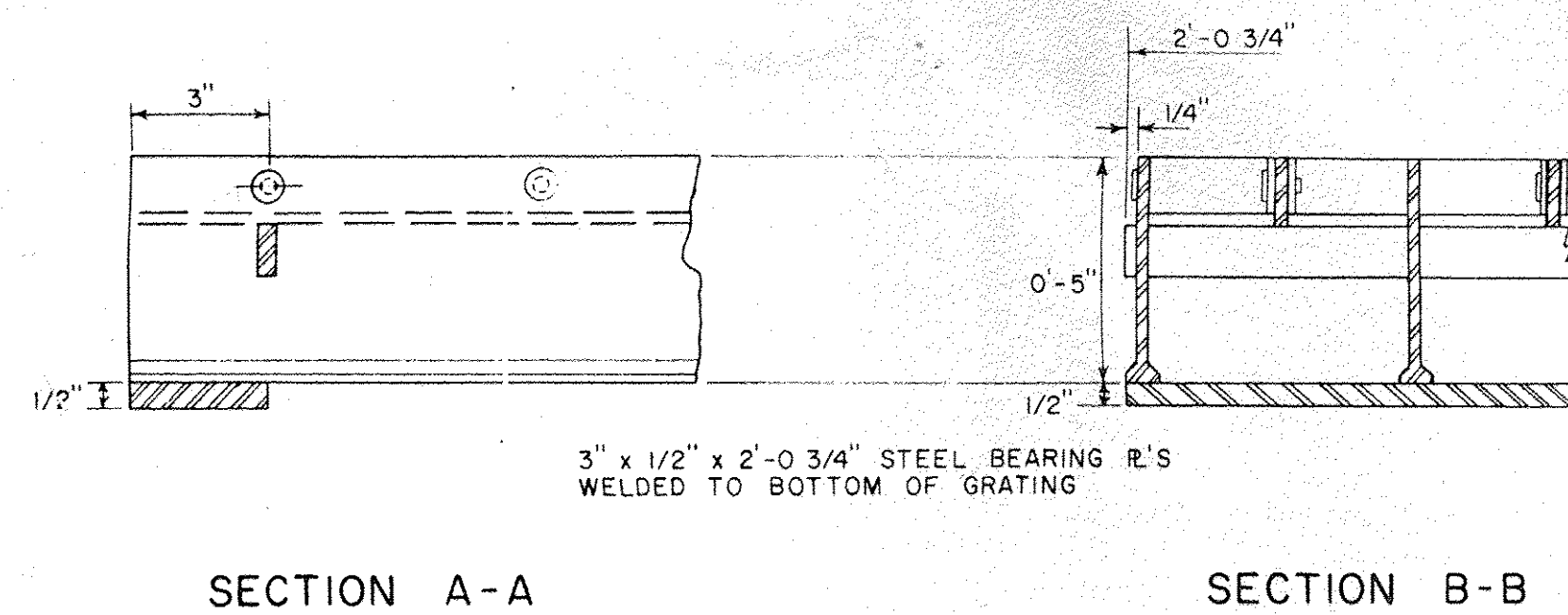
VERMONT
DEPARTMENT
OF HIGHWAYS
STANDARD

D-6

STEEL GRATE

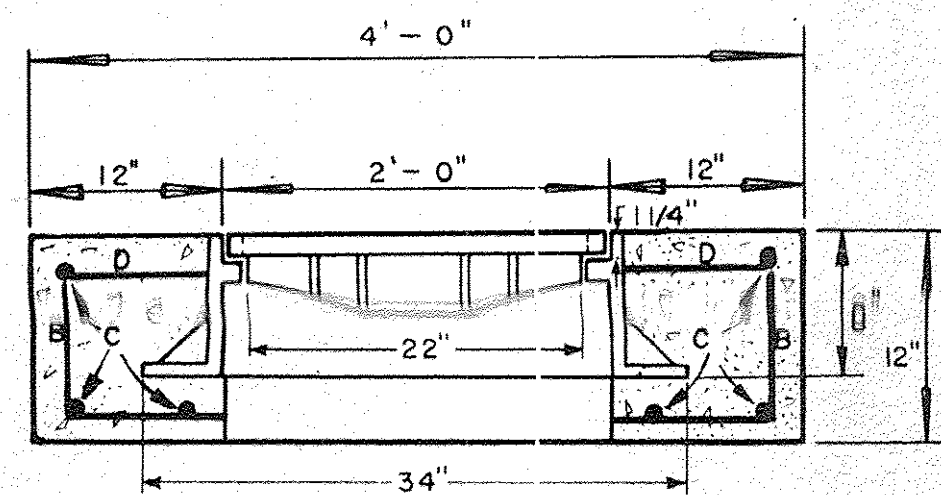


GRATE SIZE SINGLE 24 3/4" x 30"
DOUBLE 24 3/4" x 54"
WEIGHT 95 LBS OR MORE
GRATES SHALL BE CAPABLE OF SUPPORTING H-20 (32,000 LB. AXLE LOAD) INCLUDING 30% IMPACT.
UNIT STRESSES (LBS. PER SQ. IN.)
MAIN BAR PARALLEL TO TRAFFIC H-20 49' 53"
MAIN BAR PERPENDICULAR TO TRAFFIC H-20 39' 42"



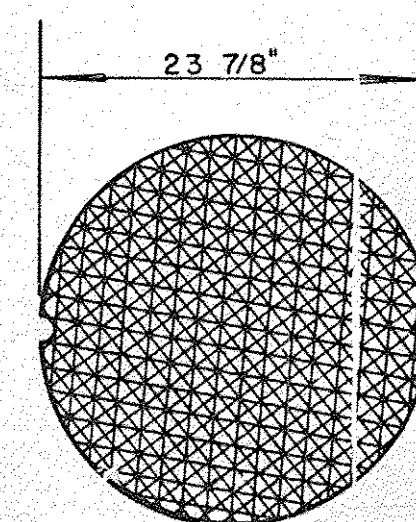
CAST IRON COVER WITH FRAME

BAR	NO.	LENGTH	
B	4	3'-8"	STRAIGHT
C	6	3'-8"	STRAIGHT
D	4	3'-8"	STRAIGHT



ELEVATION

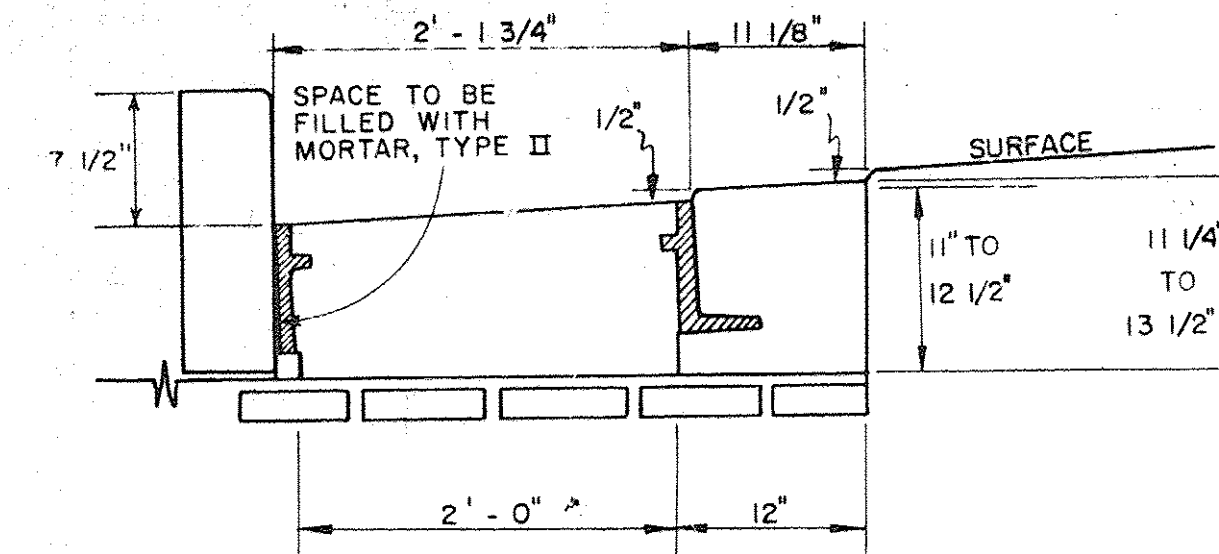
ALL REINFORCING STEEL TO BE NO. 5 DEFORMED BARS



PLAN

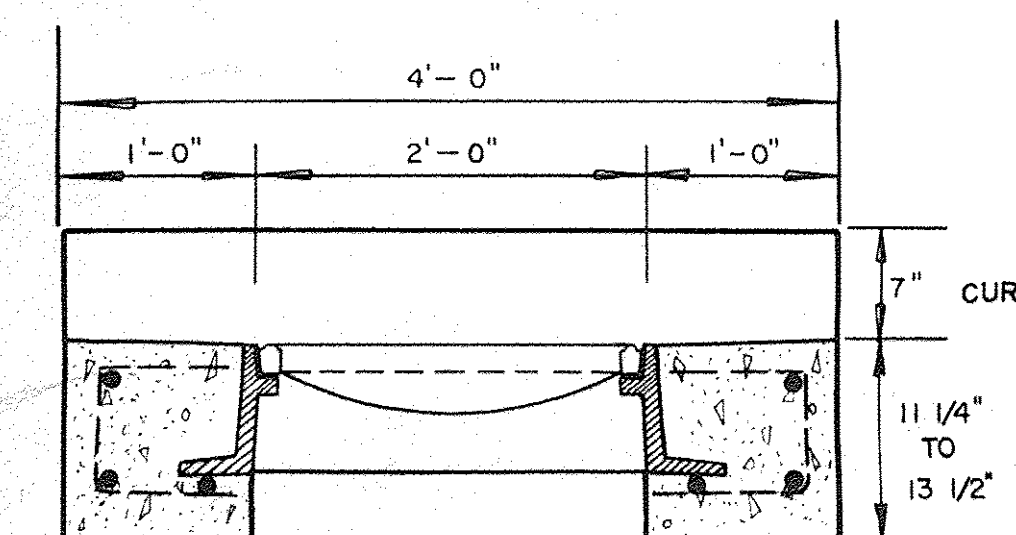
GENERAL NOTES:
WEIGHT OF FRAME AND COVER = 425 LBS.

CAST IRON GRATE WITH FRAME



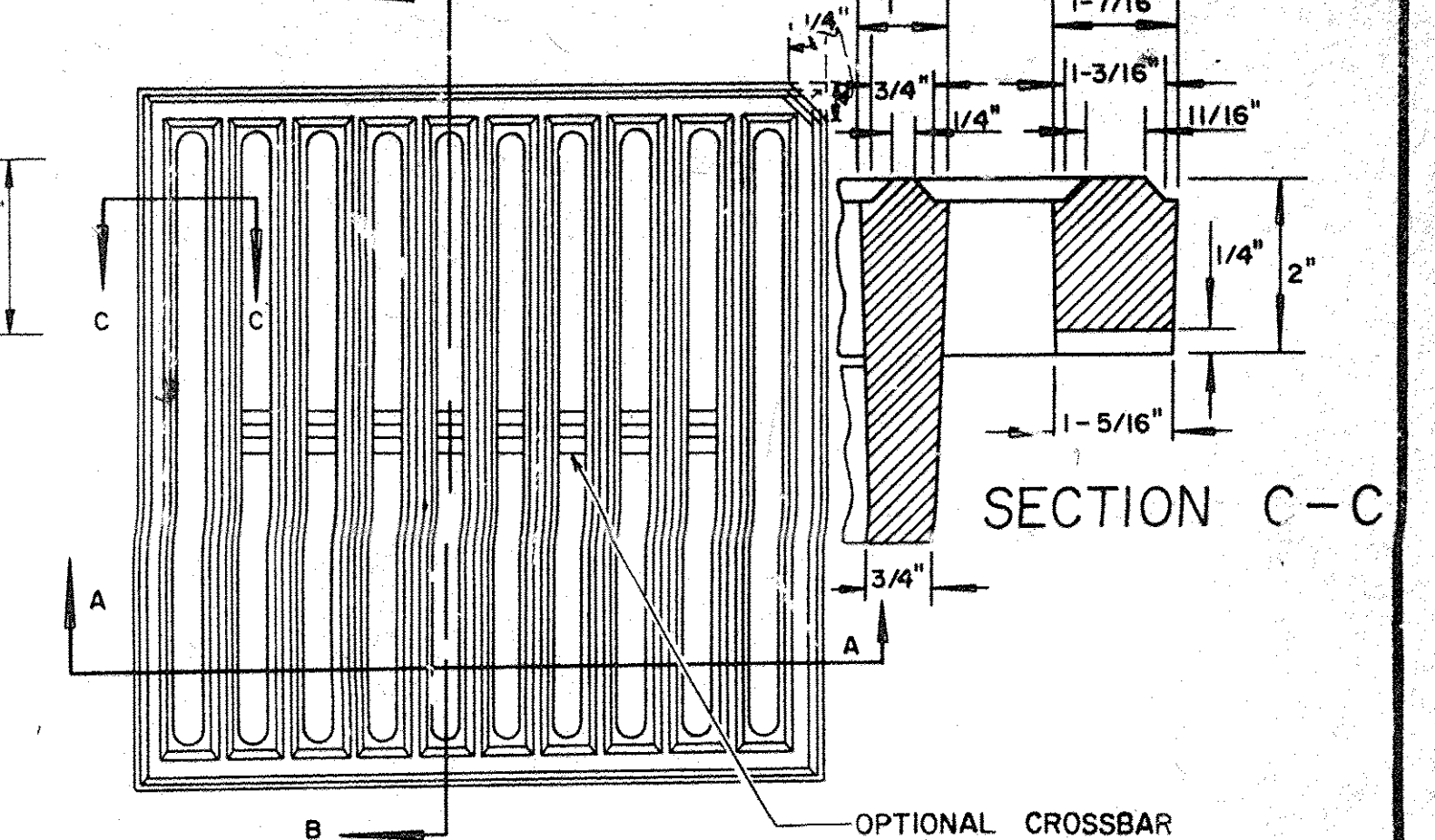
ELEVATION OF REINFORCED CONCRETE DROP INLET WITH VERTICAL GRANITE CURB AND 3 FLANGE CAST IRON FRAME FOR CAST IRON GRATE.

SEE STANDARD D-9 FOR CONCRETE VOLUME, REINFORCING STEEL SCHEDULE AND CURB JOINT DETAIL.

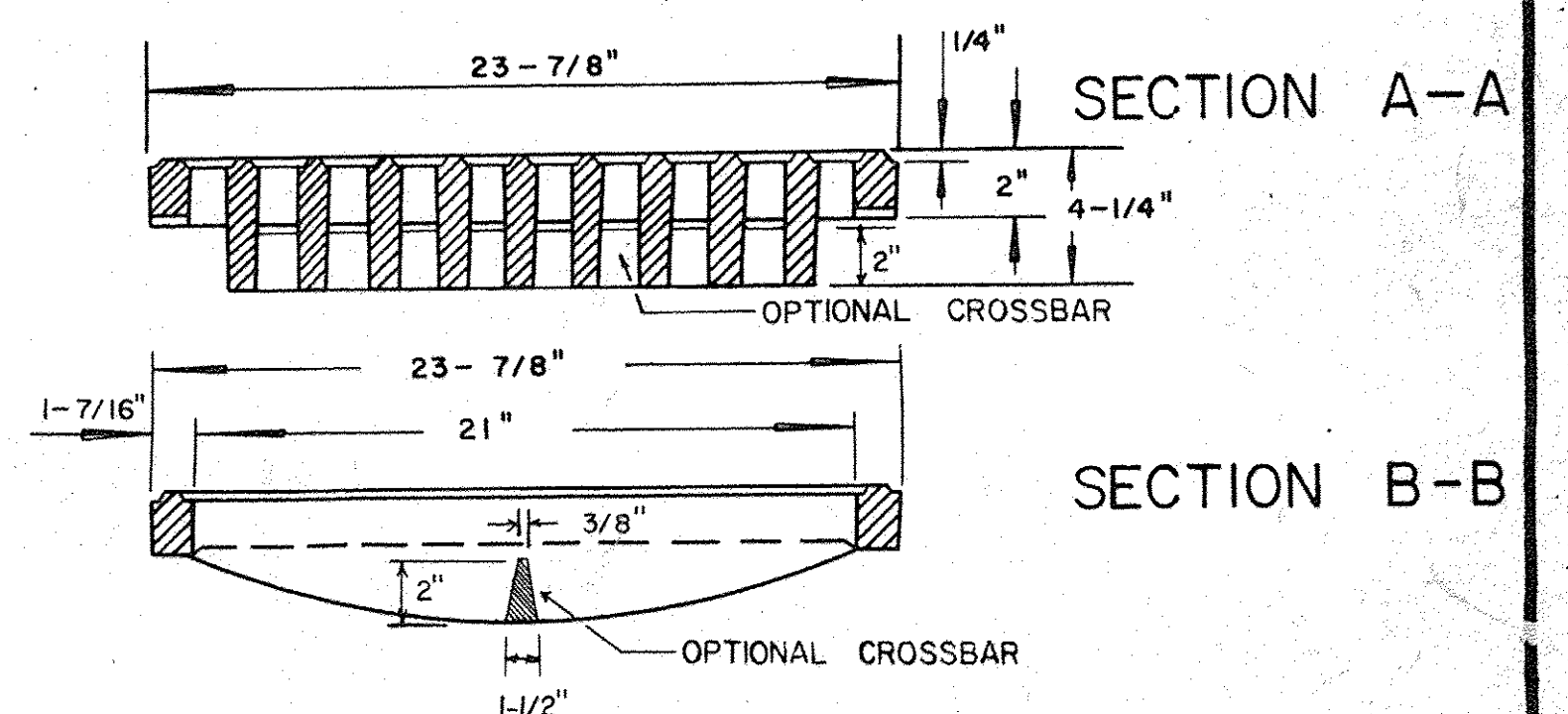


ELEVATION

SUBSTITUTION OF CUT CORNER ON GRATE MAY BE MADE.



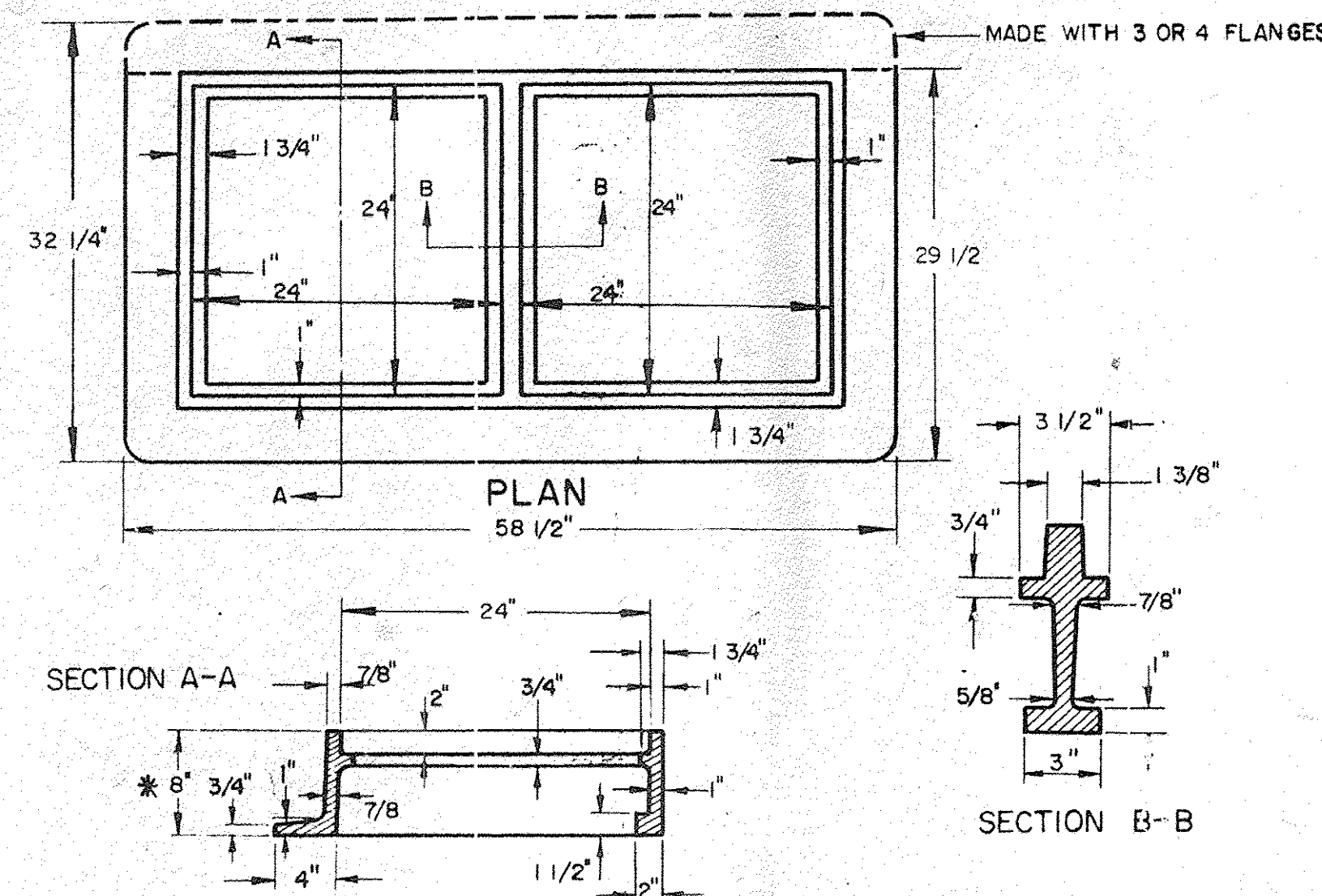
SECTION C-C



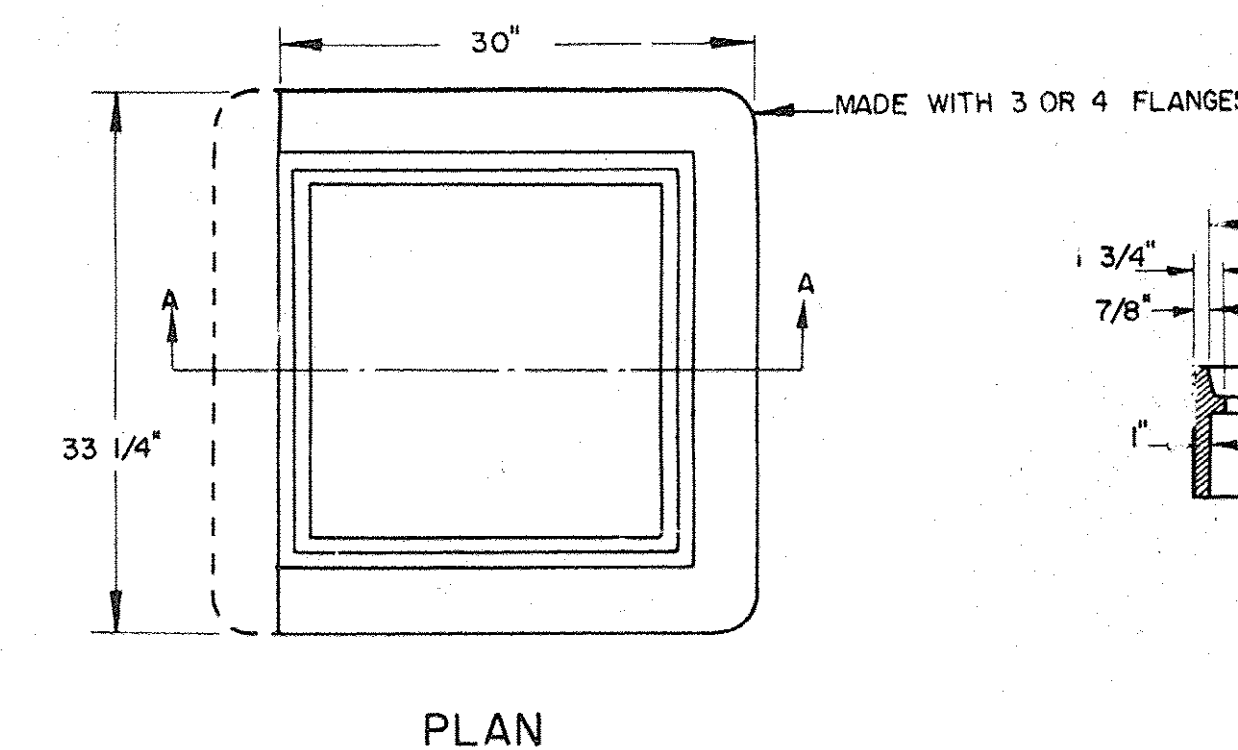
WEIGHT OF 3 FLANGED FRAME AND GRATE
GRATE 220 LBS
FRAME 260 LBS
TOTAL 480 LBS

CAST IRON GRATE, TYPE A

USE OF THE TYPE A GRATE IS PROHIBITED WHERE BICYCLE TRAFFIC IS EXPECTED.

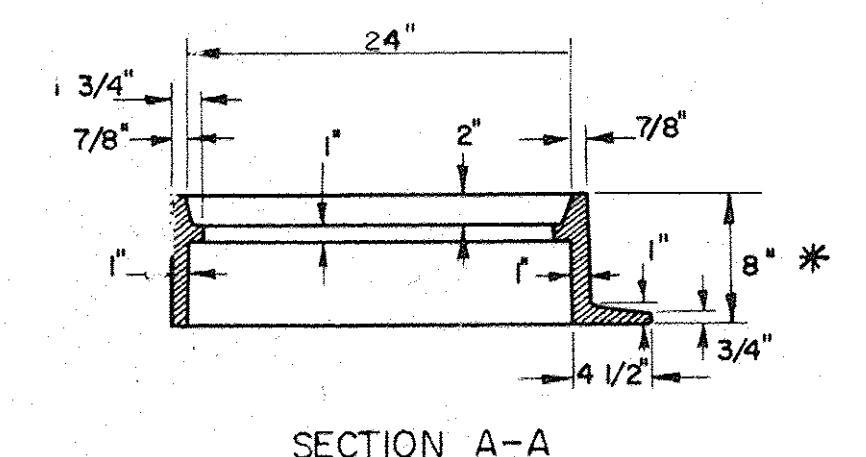


RECTANGULAR CAST IRON FRAME FOR TWO 24" SQUARE CAST IRON GRATES



SQUARE CAST IRON FRAME FOR CAST IRON GRATE TYPE A

* NOTE: FRAME DEPTH TO BE "6" WHEN USED IN CONJUNCTION WITH DROP INLET DETAILED ON STANDARD D-6.



THIS FRAME TO BE PLACED IN DROP INLET TOP BEFORE CONCRETE IS POURED.
4 FLANGES UNLESS OTHERWISE INDICATED.
FRAMES TO BE FURNISHED WITH 3 FLANGES WHEN USED IN CONJUNCTION WITH CURB OR AS DIRECTED BY THE ENGINEER.

REVISIONS AND CORRECTIONS

APRIL 25, 1972 CAST IRON COVER CHANGED FROM SQUARE TO CIRCULAR
SEPT. 4, 1980 OPTIONAL CROSSBAR ADDED TO A GRATE;
NOTE ADDED TO A GRATE FRAME DETAIL.
AUG 24, 1981 NOTE ADDED RESTRICTING USE OF TYPE A GRATE.

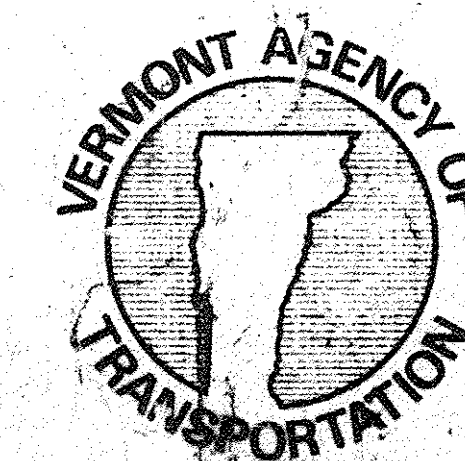
APPROVED

DATE Dec 6, 1971

R. N. Connolly
CHIEF ENGINEER
E. H. Stinchney
ASST. CHIEF ENGINEER
G. M. Lane
HIGHWAY ENGINEER

DRAWN: G. A. J. A
TRACED: A. J. A

STEEL GRATE
CAST IRON GRATE TYPE A
CAST IRON COVER



STANDARD
D-11