

STATE OF VERMONT
AGENCY OF TRANSPORTATION

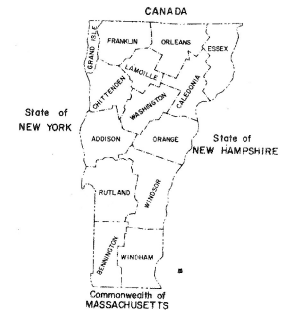


TERMINAL BUILDING
RUTLAND STATE AIRPORT
CLARENDON, VERMONT
AIR 23-2024

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

CONTRACT PLANS

THESE PLANS DO NOT REFLECT
CHANGES MADE ON THE PROJECT.



Dated FEB 12 1988
Simpson Construction, Inc.
Contractor
Signature
Earl M. Simpson, Jr.
President
THE
Transportation Secretary's Signature

SYMBOLS

DIMENSION TO TOP, FOR OR CL	BRICK	
MAJOR SECTIONS THROUGH TLDS	SLATE	
LARGE SCALE DETAILS & SECTIONS (IN DETAIL BOOK)	STONE	
MATERIAL IN A RELATED PLANE	STEEL REINFORCING	
INTERIOR ELEVATIONS	STEEL CROSS SECTION	
DIAMETER	PLYWOOD	
EARTH	WOOD FRAMING CROSS SECTION - CONTINUOUS	
SAND OR GRI	WOOD FRAMING CROSS SECTION - DISCONTINUOUS	
GRAVEL	FINISH WOOD CROSS SECTION	
CRUSHED STONE	FINISH WOOD FACE GRAIN	
CONCRETE	FIBERGLASS INSULATION	
CEMENT MASONRY UNIT	RIGID INSULATION	

ABBREVIATIONS

AB	ANCHOR BOLT	HORIZ	HORIZONTAL
BLDG	BUILDING	INSUL	INSULATION
BTW	BETWEEN	LB	LAS BOLT
CB	CARRIAGE BOLT	MAX	MAXIMUM
CL	CENTER LINE	MIN	MINIMUM
CL	CLOSET	MR	MOISTURE RESISTANT
CMU	CEMENT MASONRY UNIT (CONCRETE BLOCK)	NIC	NOT IN CONTRACT
COLS	COLUMNS	OC	ON CENTER
CONT	CONTINUOUS	PERP	PERPENDICULAR
DBL	DOUBLE	PL	PLATE
DF	DRINKING FOUNTAIN	POLY	POLYETHYLENE
DR	DOOR	PR	PAIR
DW	DOWN	R	RISER
EF	EACH FACE	RO	ROUGH OPENING
EL	ELEVATION	ST	STEEL
EW	7/8" WAY	STD	STANDARD
EXT	EXTERIOR	TLC	TOP OF CURB
FGD	FLOOR CLEAN OUT	T & G	TONGUE AND GROOVE
FD	FLOOR DRAIN	TYP	TYPICAL
FTN	FOUNDATION	VERT	VERTICAL
FXC	FIRE EXTINGUISHER CABINET	VB	VAPOR BARRIER
FPF	FACE OF FOUNDATION	W	WITH
FOS	FACE OF STUD	WO	WOOD
GWB	GYPSON WALL BOARD	FF	FINISH FLOOR
HCP	HANDICAPPED		

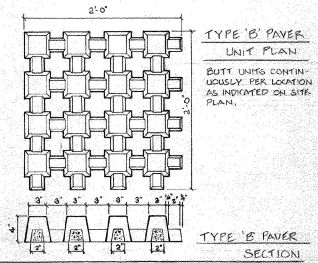
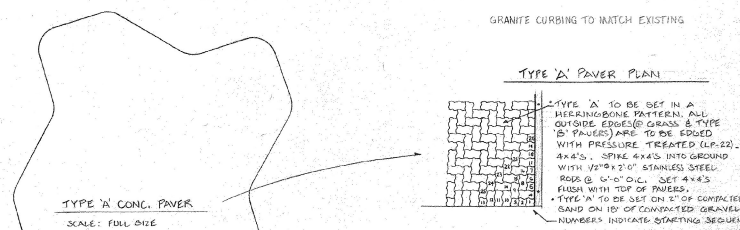
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4 "	A-2 FIRST FLOOR PLAN
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16 "	H-1 HEATING PLAN & DETAILS
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	STANDARD SITE DETAILS
18 "	STANDARD D6 (APRIL 4, 1976)
19 "	STANDARD D11 (AUGUST 24, 1981R)

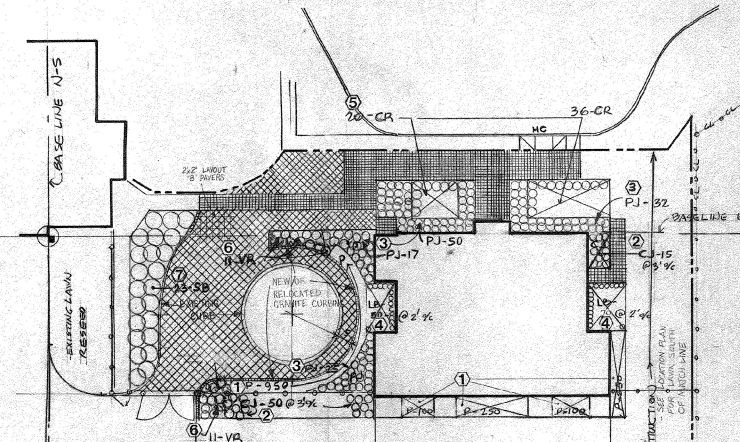
*FOR LARGE SCALE DETAILS SEE "DETAIL BOOK"

AIR 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 NR 23-2024	
SHEET 1 OF 19 SHEETS	

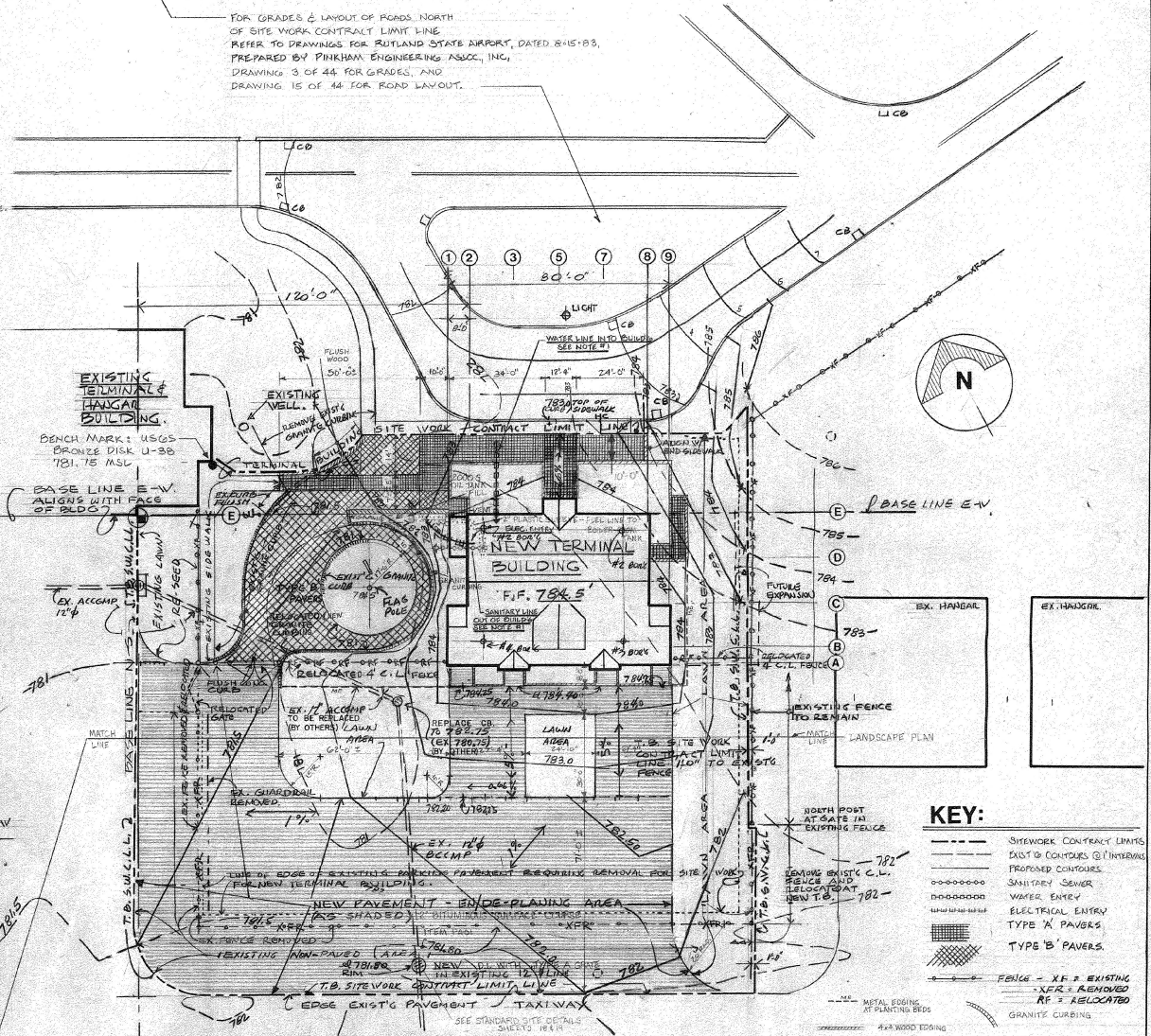


TYPE 'B' TO BE SET ON 2" OF COMPACTED SAND ON 10" OF COMPACTED GRAVEL. FILL VOIDS IN PAVERS FLUSH WITH A MIXTURE OF TOPSOIL, LIME, FERTILIZER (10-20-20) AND PEAT MOSS. WATER WITH A MIST SPRAY TO SETTLE. ADD ADDITIONAL TOPSOIL MIX TO BRING THE TOPSOIL FLUSH WITH TOP OF THE PAVERS. USED AT QUANTITY LESS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



PLANTING LIST

		SIZE & REMARKS
1	P. PERIWINKLE - 1650 PLANTS @ 9" x 6" IN 5 BEDS	VINCA MINOR
2	CJ - CREEPING JUNIPER - 65 PLANTS @ 3" x 6" 2 BEDS - JUNIPER HORIZONTALIS	6" x 4" HT. 18" 24" SPREAD, 5 GAL. C
3	PJ - PROSTRATE COMINO JUNIPER - 124 PLANTS - 3" x 4" 4 BEDS - JUNIPER C. DEPRESSA	12-15 HT. 24-30 SP. D, 5 GAL. C
4	LB - LOW BUSH BLUEBERRY - 120 PLANTS - 2" x 6" IN 2 BEDS - V. AUGUSTIFOLIA	6" x 4" HT. 6" FIBER POT
5	CR - CAROLINA ROSE - 50 PLANTS IN TWO BEDS -	18-20 HT. 2 GAL. C
6	VA - VIRGINIA ROSE - 22 PLANTS IN 2 BEDS - ROSA ANGLICA	24-30 HT. 3 GAL. C
7	SB - SNOW BERRY - 27 PLANTS @ 4" x 6" IN ONE BED - SYMPHYCARPA ALBA LACIN	3'-4" HT. 3 GAL. C/PK B&B



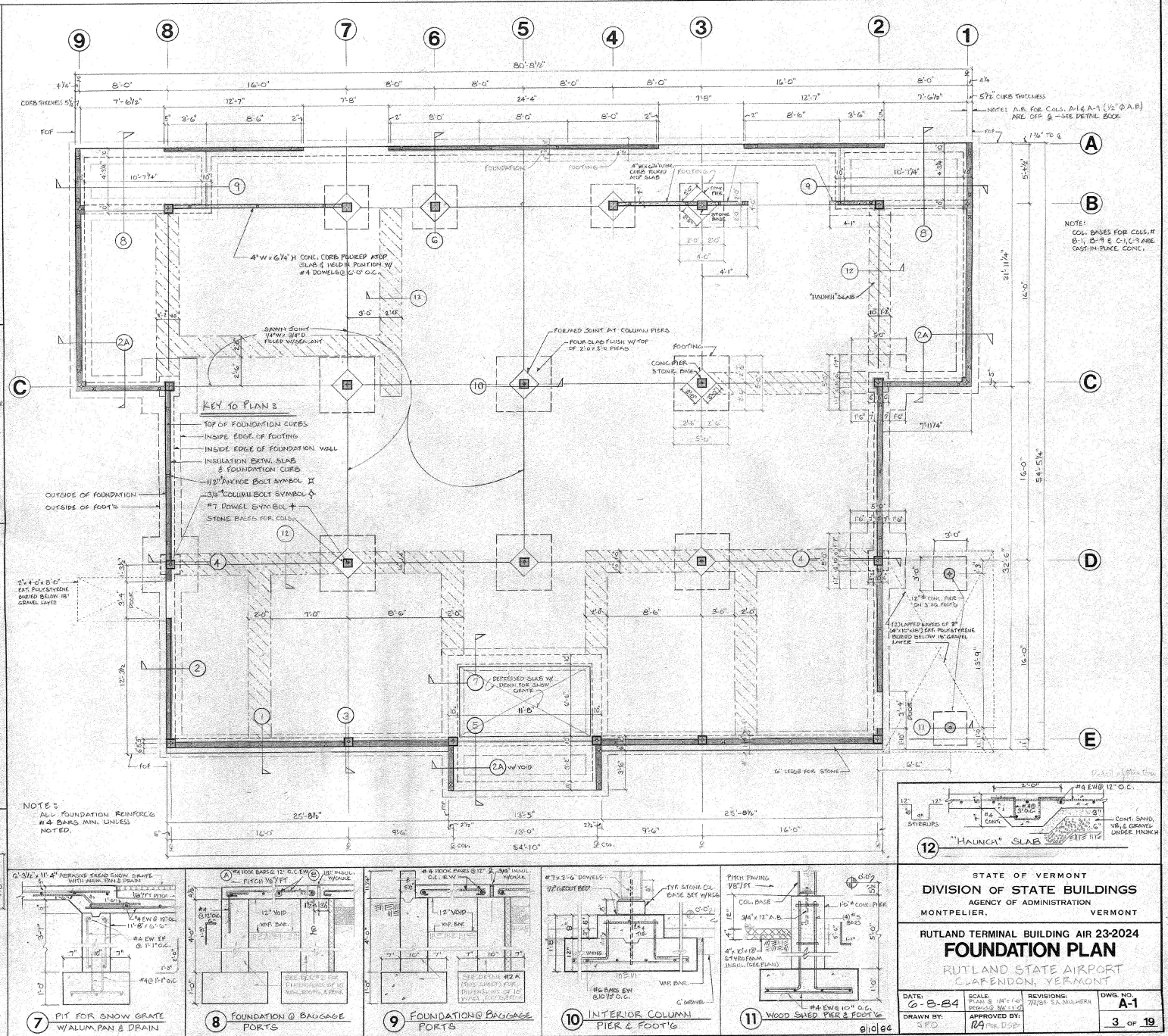
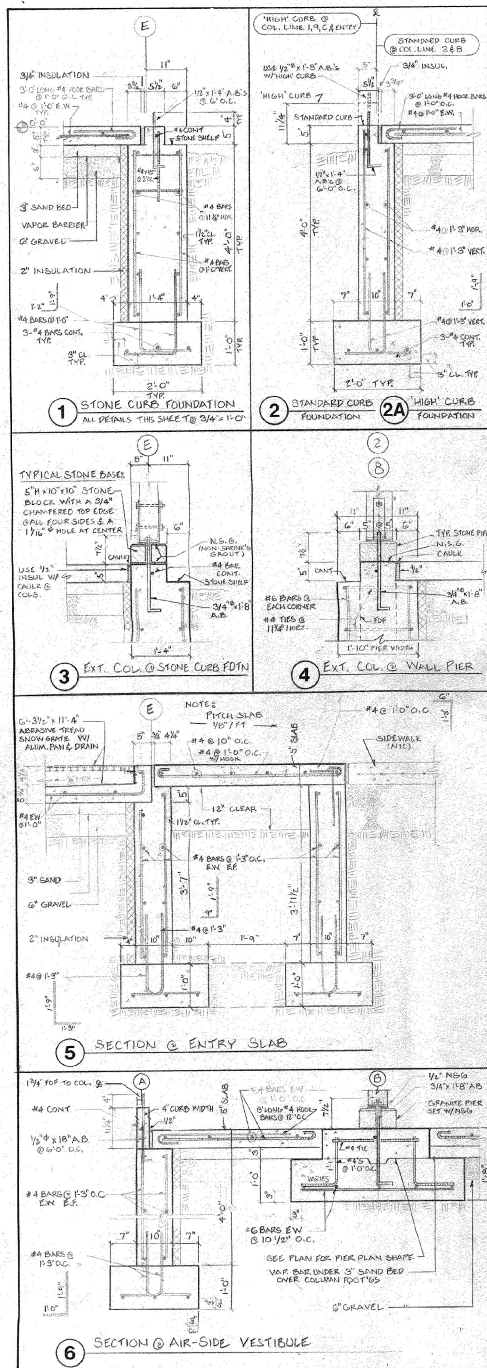
SITE LOCATION PLAN

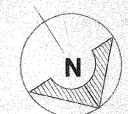
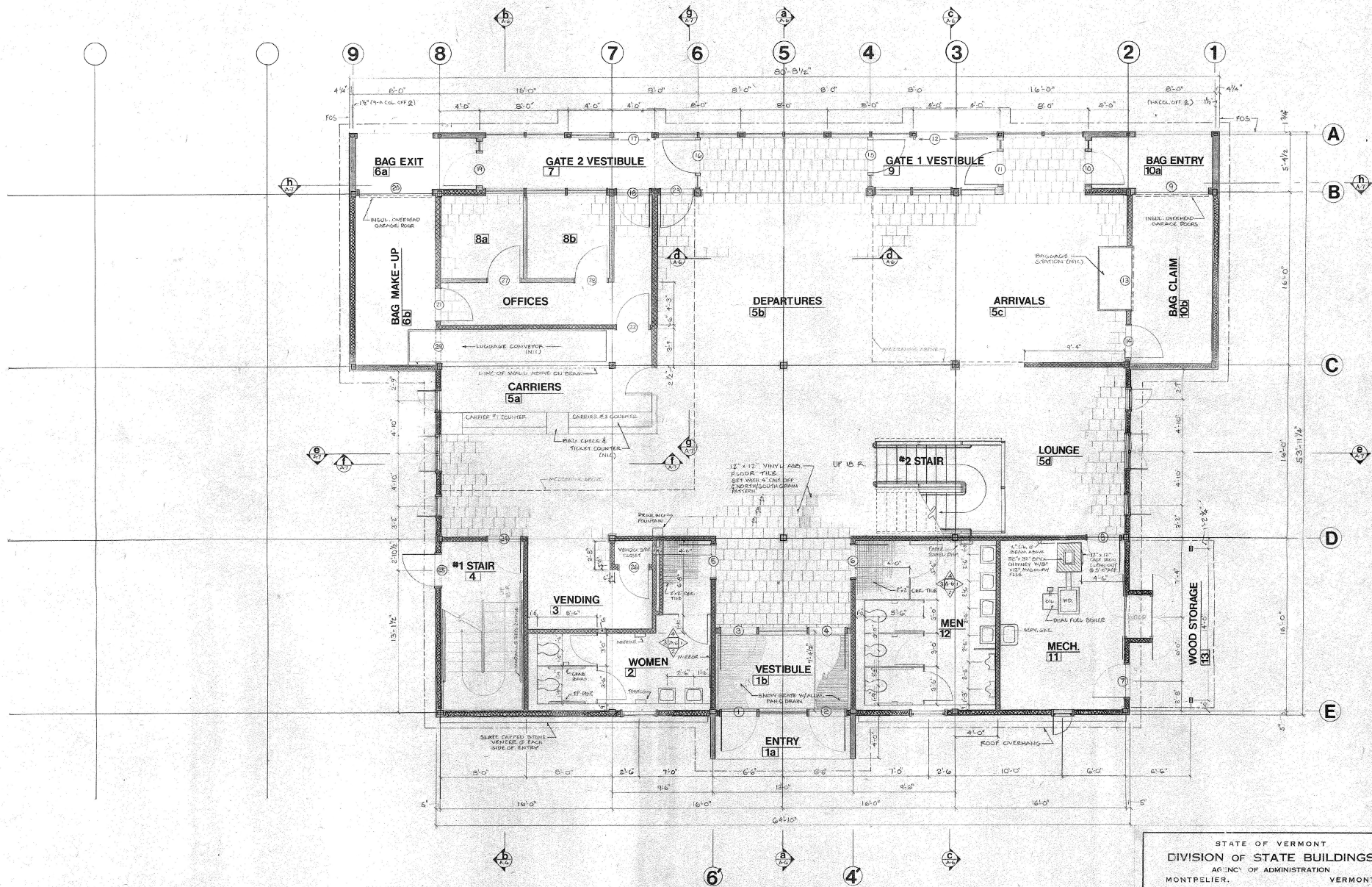
BUILDING LOCATION, GRADES, SURFACE IMPROVEMENTS & DRAINAGE.
 NOTE #1: SEE SITE UTILITIES PLAN (S&U) FOR CONTINUATION OF BUILDING WATER SERVICE LINE & SANITARY LINE.
 NOTE #2: DATA REGARDING EXISTING PARKING AREA, GRADES, & FENCES DEVELOPED FROM:
 ① AS BUILT RUTLAND STATE AIRPORT PARKING LOT EXTENSION DRAWINGS DATED: 7-23-73, G.W. DANNON, RESIDENT ENGINEER.
 ② DRAWINGS PREPARED BY DURESSNE-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 & 9-28-77.

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

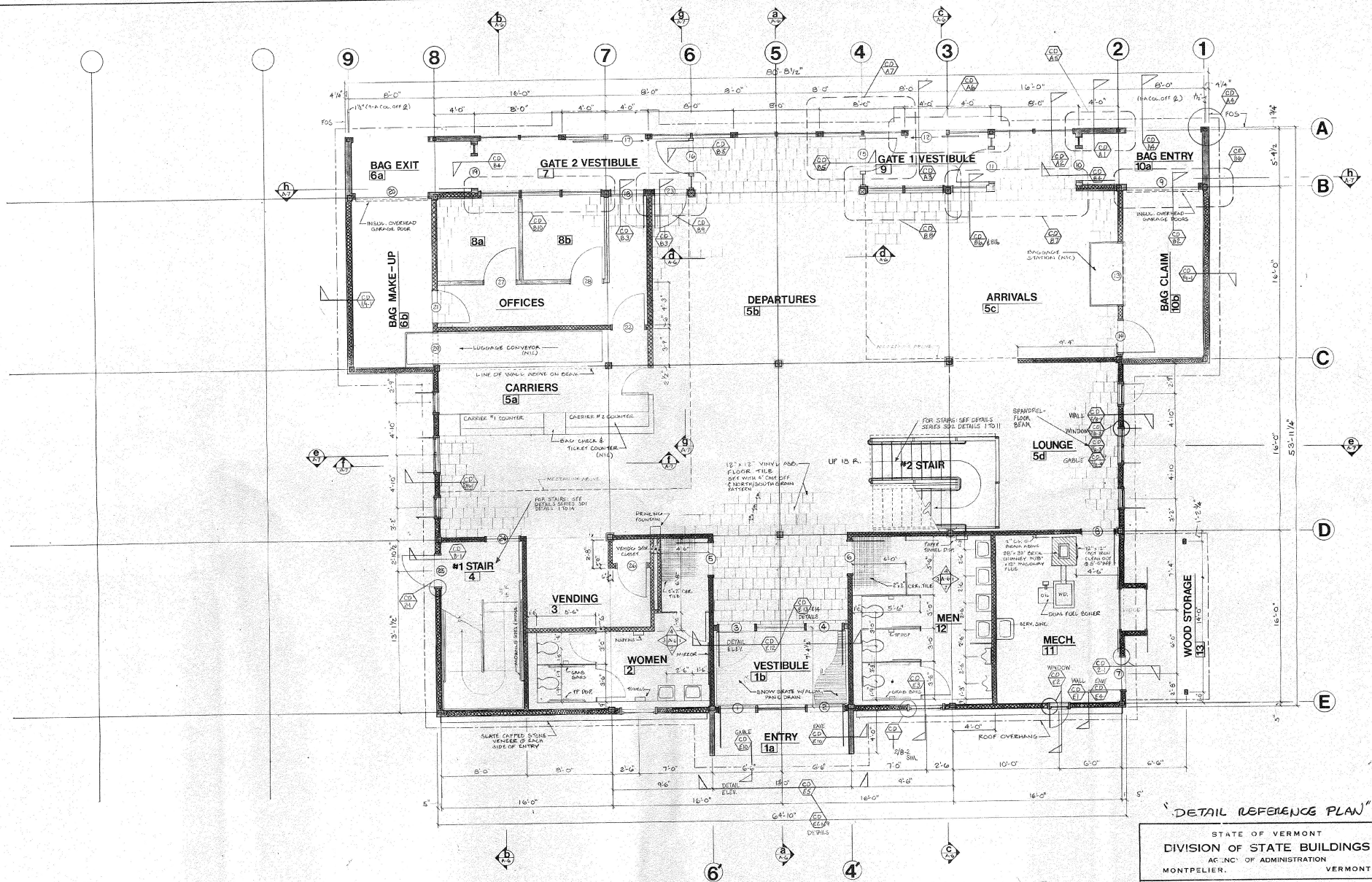
RUTLAND TERMINAL BUILDING AIR 23-2024
SITE PLAN & LANDSCAPING
 RUTLAND STATE AIRPORT
 CLARENDON, VERMONT

DATE: 6-28-84	SCALE: 1" = 20' 0"	REVISIONS: 6/27/84 SAMUELSON	DWG. NO.: S-1
DRAWN BY: RA	APPROVED BY: CAR DSE		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:	SCALE:	REVISIONS:	DWG. NO.:
6/8/24	1/8" = 1'-0"	1. REV. 6/8/24	A-2
DRAWN BY:	APPROVED BY:		
J.P.	D.A.		
			4 OF 19



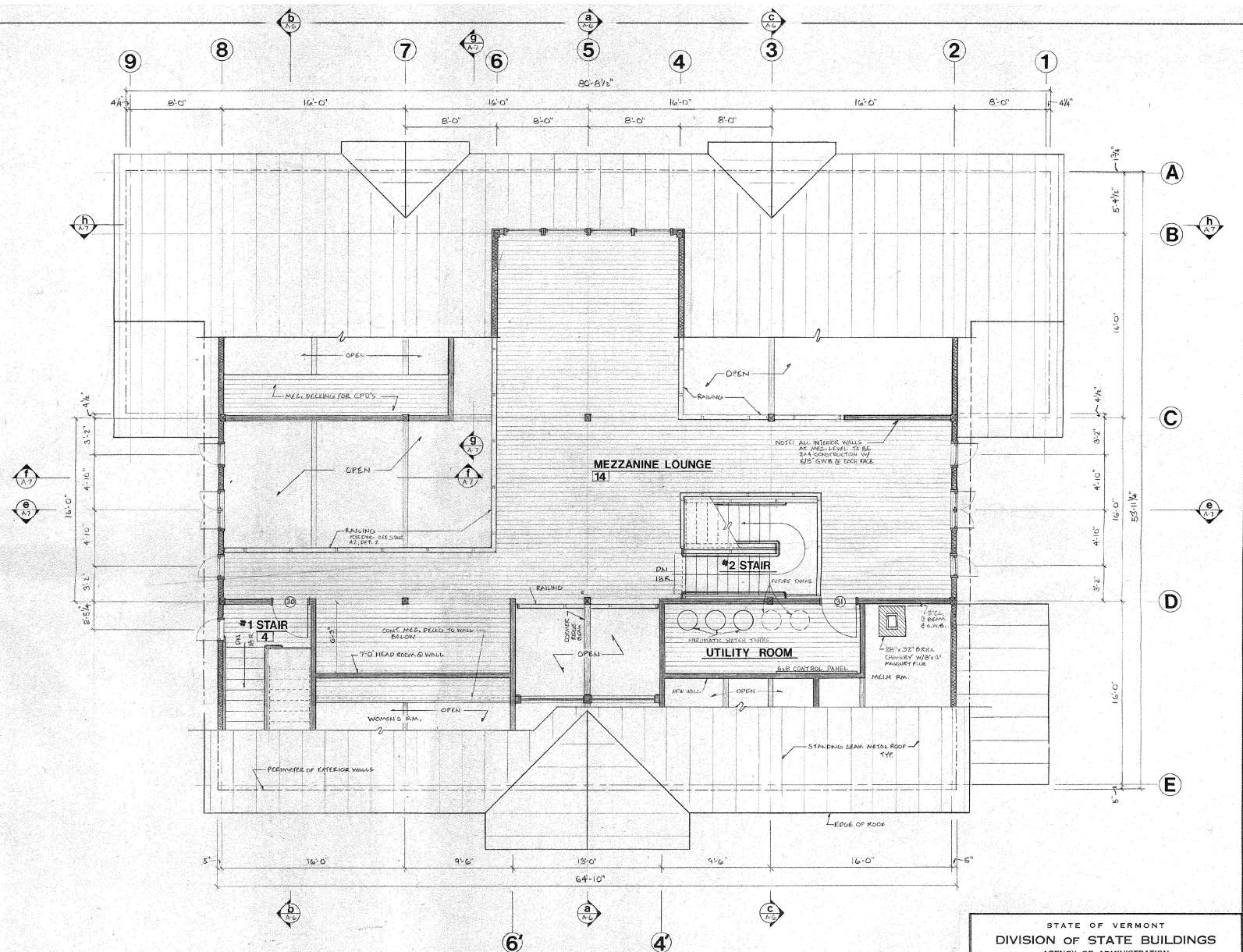
"DETAIL REFERENCE PLAN"

STATE OF VERMONT
DIVISION OF STATE BUILDINGS
AC/NO. OF ADMINISTRATION
MONTPELIER, VERMONT

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

DATE: 6/8/24	SCALE: 1/4" = 1'-0"	REVISIONS:	DWG. NO. A-2Ref.
DRAWN BY: [Signature]	APPROVED BY: [Signature]		5 of 19

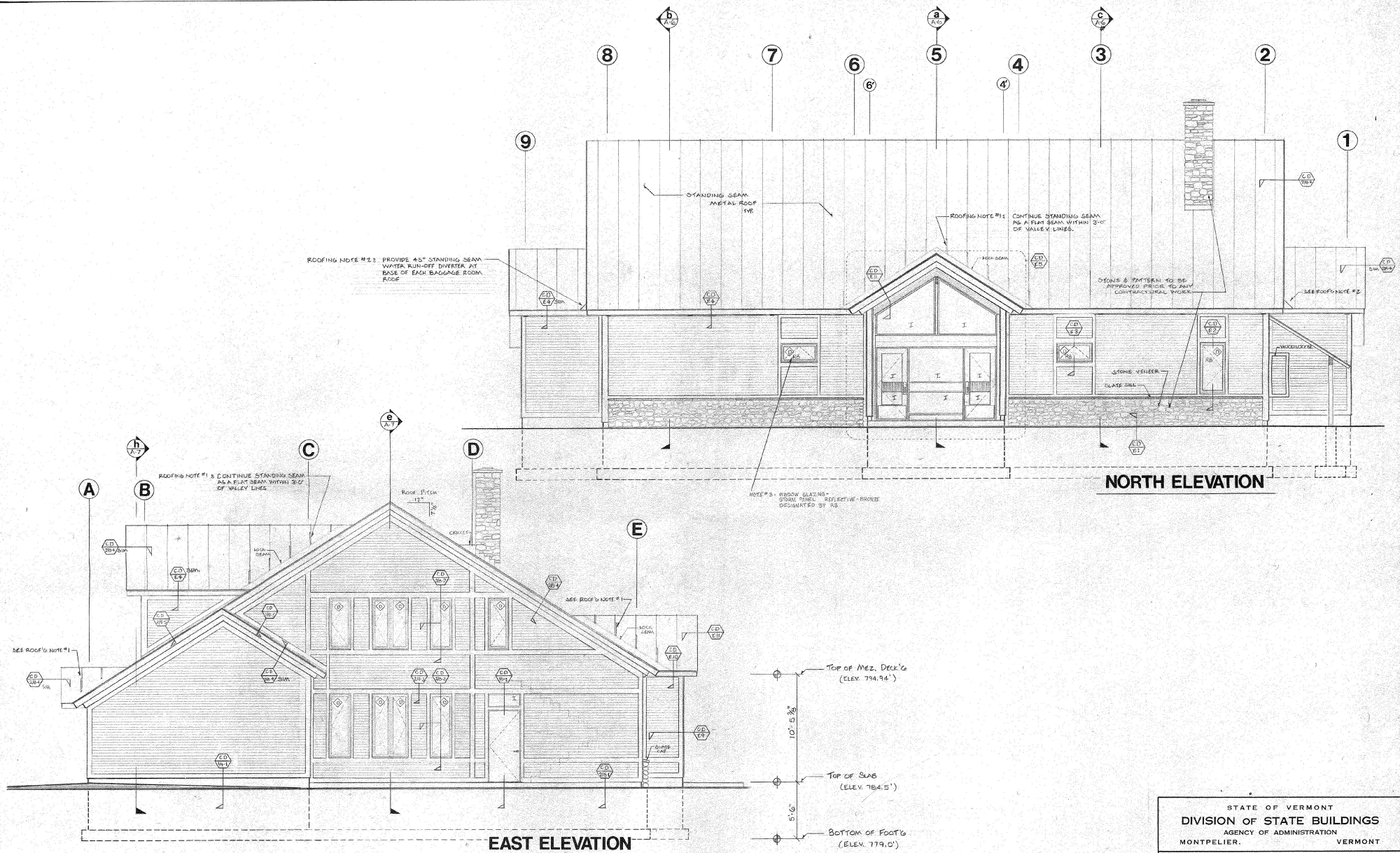
8/10/24



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

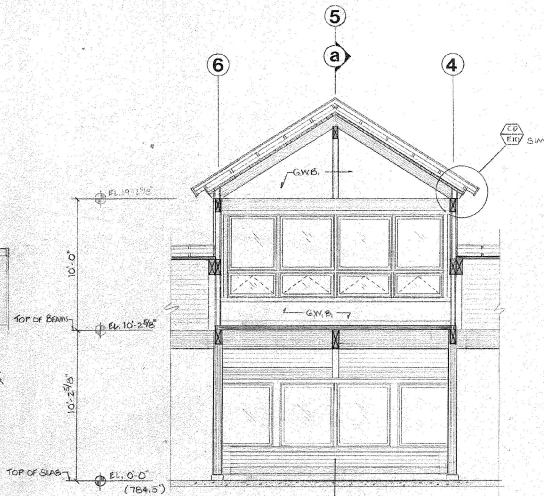
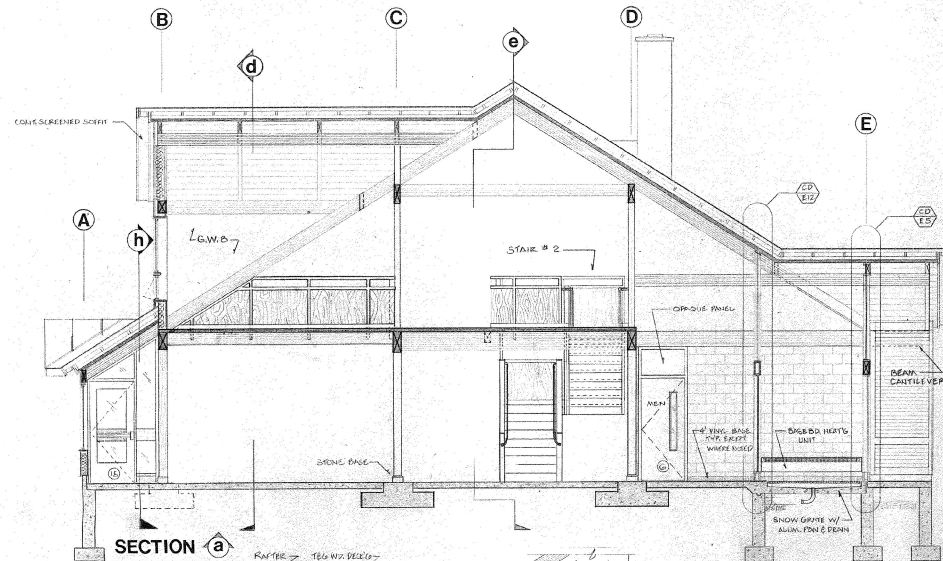
RUTLAND TERMINAL BUILDING AIR 23-2024
MEZZANINE PLAN
RUTLAND STATE AIRPORT
CLARENDON, VERMONT

DATE: 6-8-84	SCALE: 1/4" = 1'-0"	REVISIONS: 6/27/84 S.A. MULHERRN	DWG. NO. A-3
DRAWN BY: JFO	APPROVED BY: BJS (P.E. D.S.B.)		6 OF 19

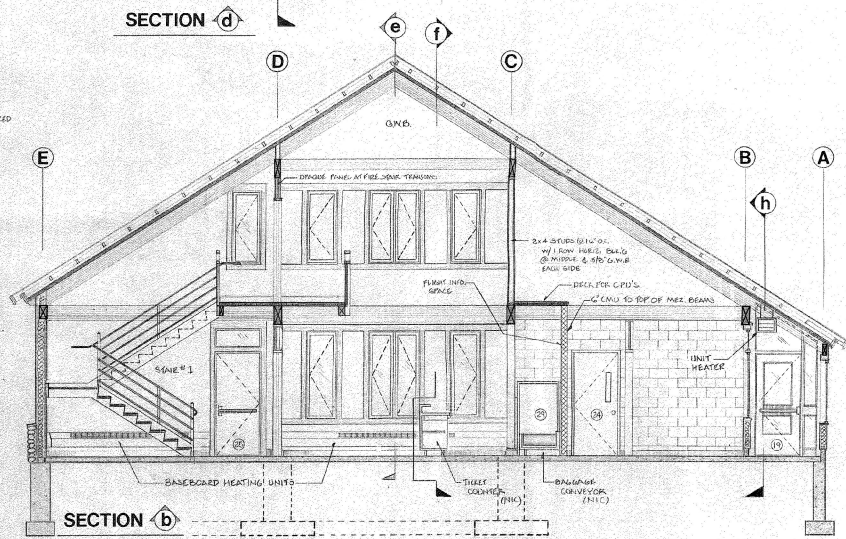
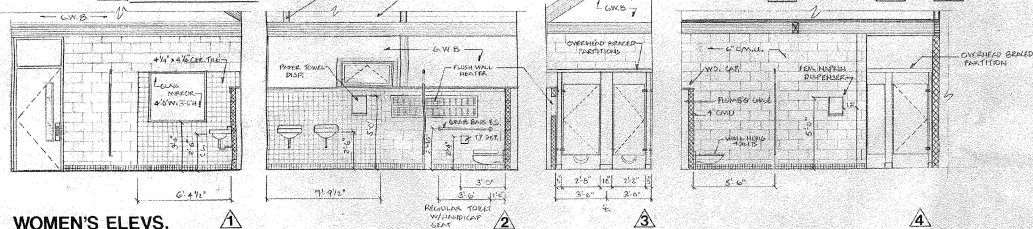


STATE OF VERMONT			
DIVISION OF STATE BUILDINGS			
AGENCY OF ADMINISTRATION			
MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING AIR 23-2024			
ELEVATIONS			
RUTLAND STATE AIRPORT			
CLARENDON, VERMONT			
DATE: 8-84	SCALE: 1/4" = 1'-0"	REVISIONS: 40008 LAMARSON	DWG. NO. A-4
DRAWN BY: S.C.	APPROVED BY: 104	7-19-05	7 OF 19

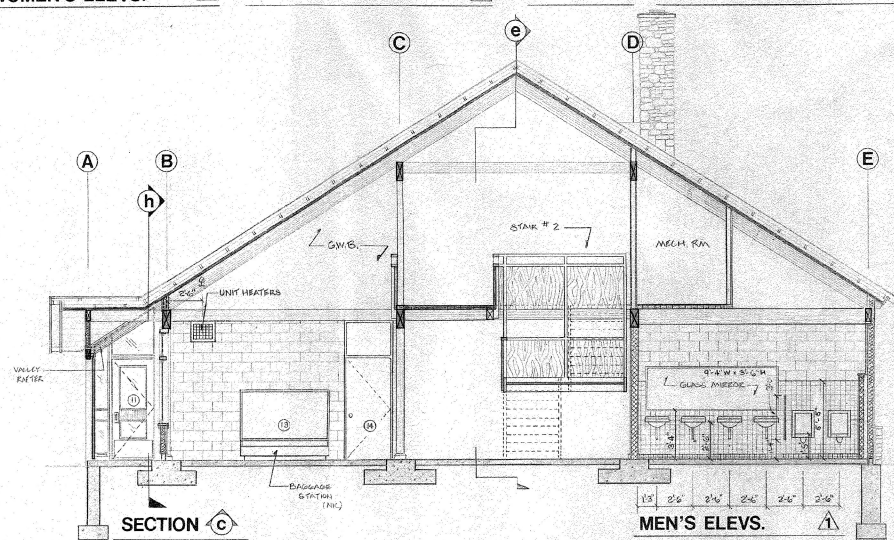
6/10/84



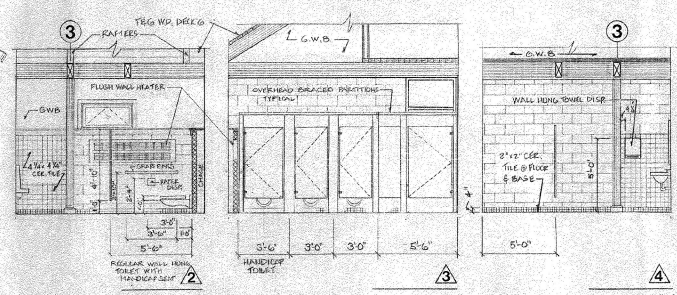
SECTION d



SECTION b



SECTION c



MEN'S ELEV. 1

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: 8-84

SCALE: 1/8" = 1'-0"

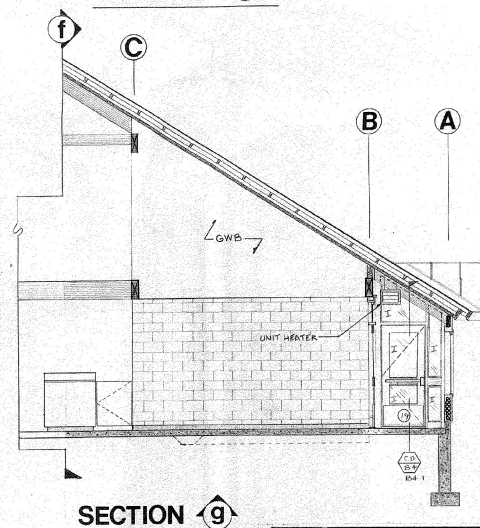
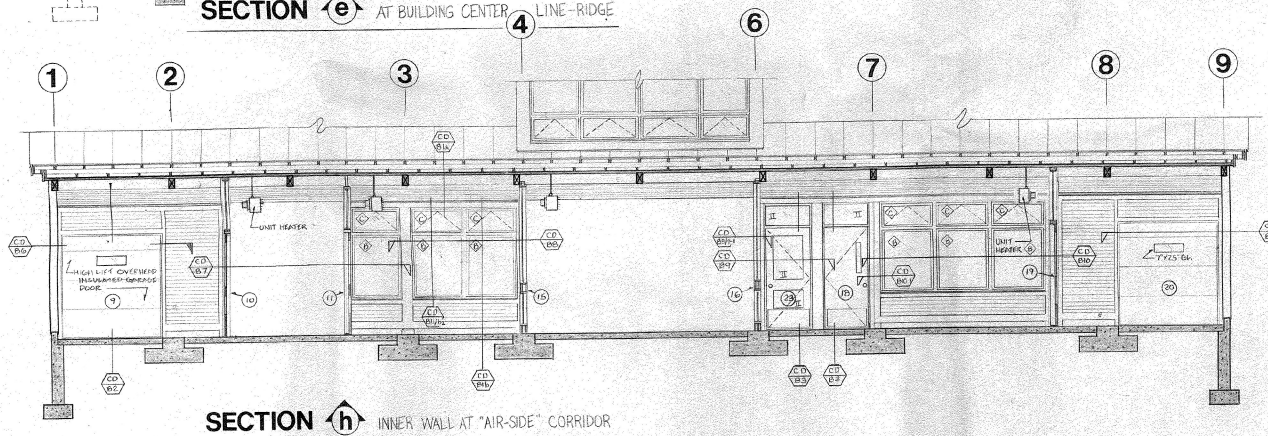
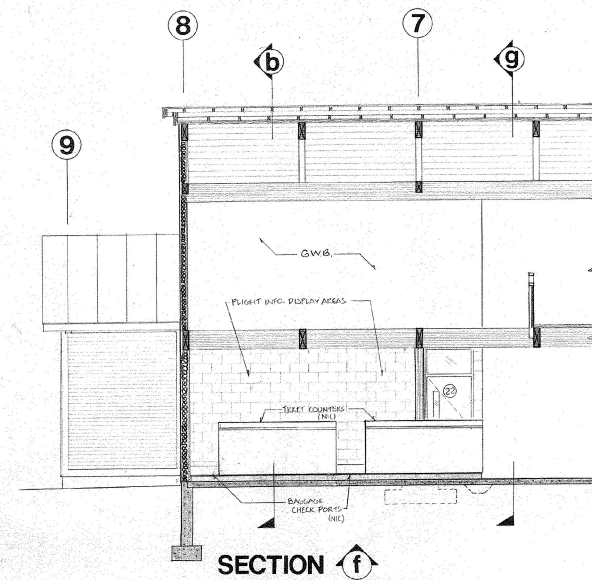
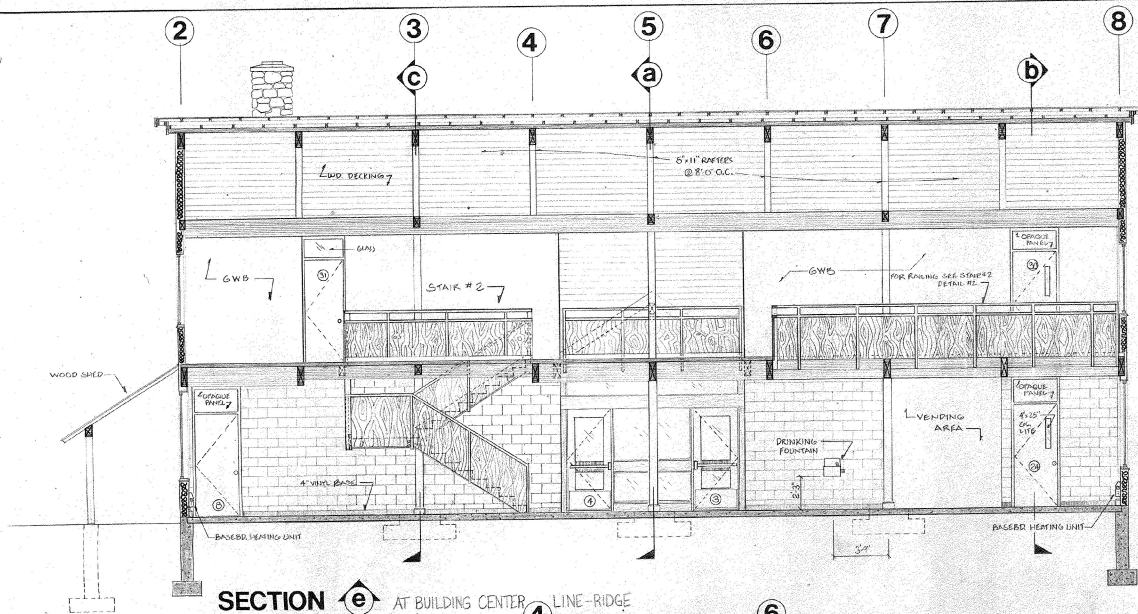
REVISIONS:

DWG. NO. A-6

DRAWN BY: SPO

APPROVED BY: RJA

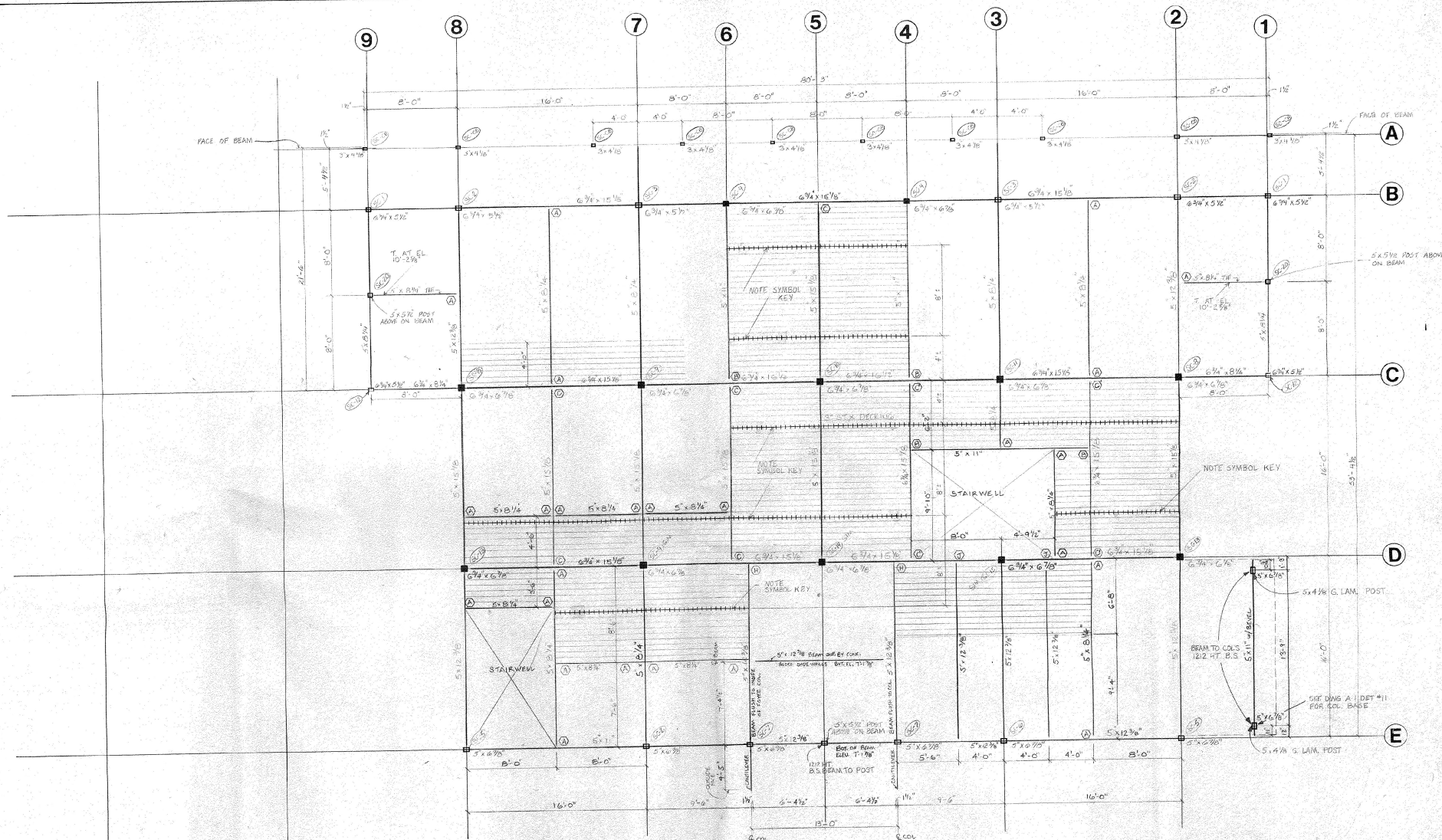
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STATE OF VERMONT
DIVISION OF STATE BUILDINGS
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT

RUTLAND TERMINAL BUILDING - AIR 23-2024
SECTIONS/INT. ELEV.
RUTLAND STATE AIRPORT
CLARENDON, VERMONT

DATE: 08-08-24	SCALE: 1/4" = 1'-0"	REVISIONS: 02/24/24 SAMUELHER	DWG. NO. A-7
DRAWN BY: JPC	APPROVED BY: NA FOR DGP		10 OF 19



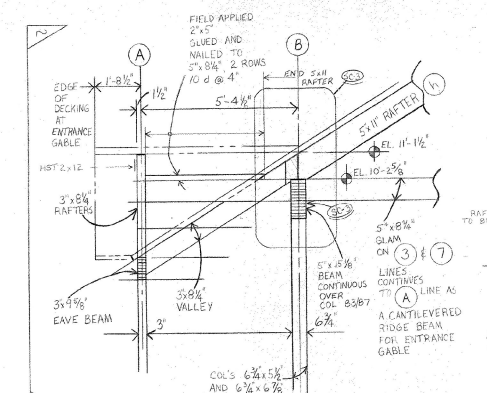
NOTE: 1. TOP OF ALL BEAMS AT 10'-2 3/8" EXCEPT AS NOTED AT ENTRANCE (13'-0" SPAN)
 * FOR CONNECTIONS (C-1) ETC. SEE STRUCTURAL CONNECTION DETAIL DWGS. SERIES SC-1 TO SC-21, SC-22, SCHEDULE OF BEAM TO BEAM CONNECTION FOR (A) (B) (C) ETC. DESIGNATED
 * 2 STANDARD CORRECTIONS 16" 1212 HT. BBL, HST 1212, 1212L, 1212L, ETC. AS INDICATED BY THE SIMPSON CO. - STRONG-TIE

KEY

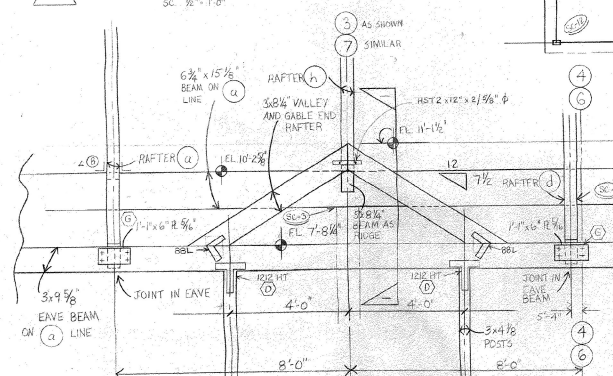
- C & C COLUMN STOPS BENEATH BEAM
- COLUMN CONTINUES
- FIRST COLUMN DIMENSION
- SECOND COLUMN DIMENSION
- ROUT OUT AT UNDER SIDE (DECK SOFFIT) 3/4" DEEP 1/2" AT E OF DECKING PLANK UNIT, CONTINUOUS FOR FULL LENGTH OF DECKING

STATE OF VERMONT DIVISION OF STATE BUILDINGS AGENCY OF ADMINISTRATION MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING AIR 23-2024 MEZZANINE FRAMING RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6-8-84	SCALE: 1/4" = 1'-0"	REVISIONS: 7/24/84 J.A. MULHORN	DWG. NO. SF-1
DRAWN BY: J.P.C.	APPROVED BY: J.A. MULHORN		
			11 OF 19

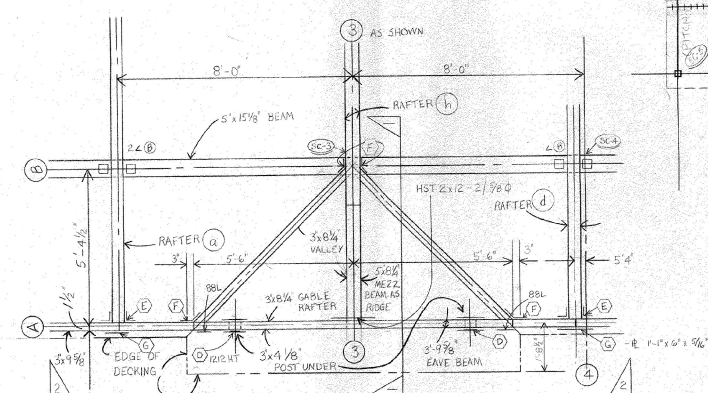
6/10/84



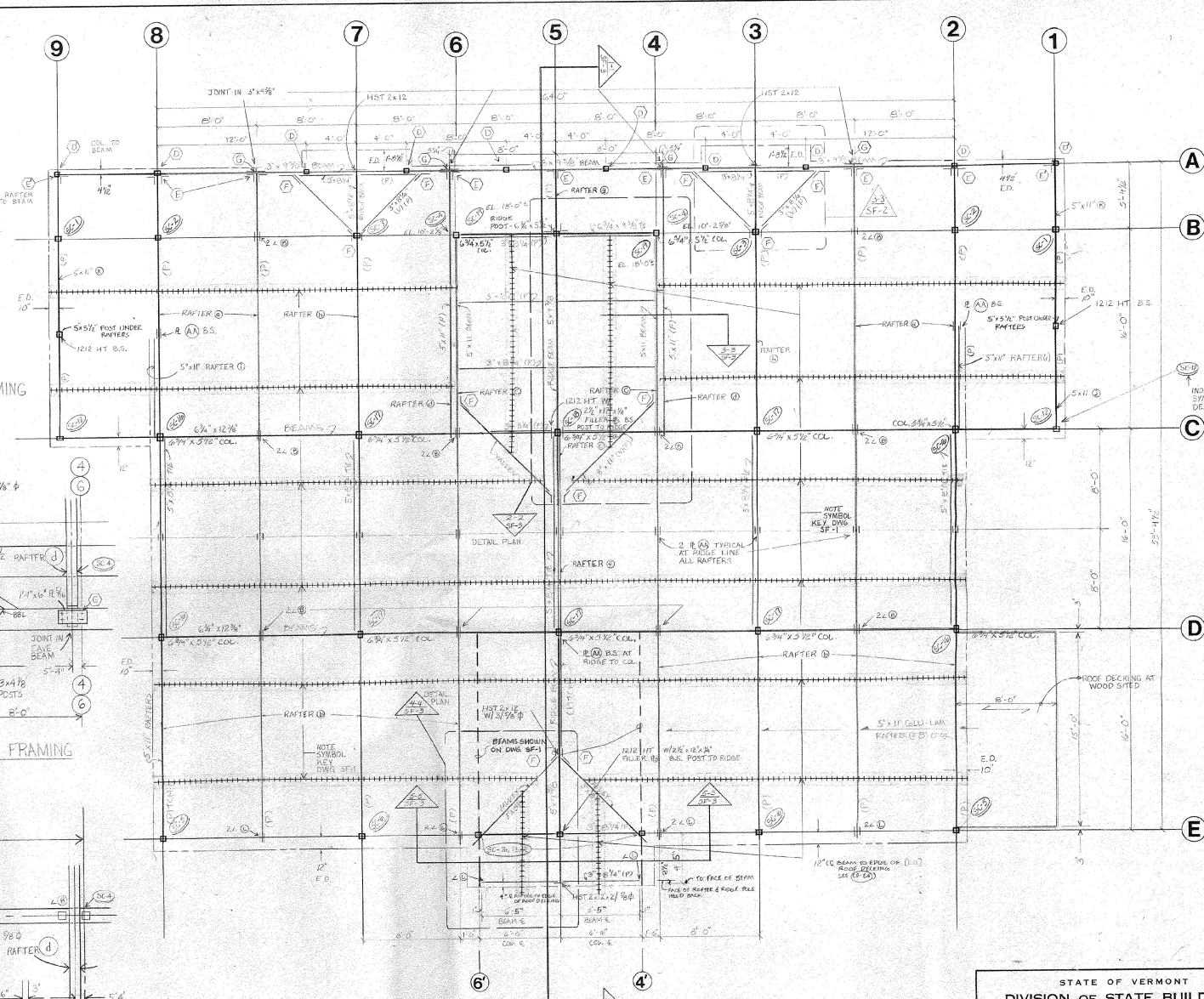
SECTION- AIR-SIDE GABLE ENTRANCE FRAMING
SC. 10'-1'-0"



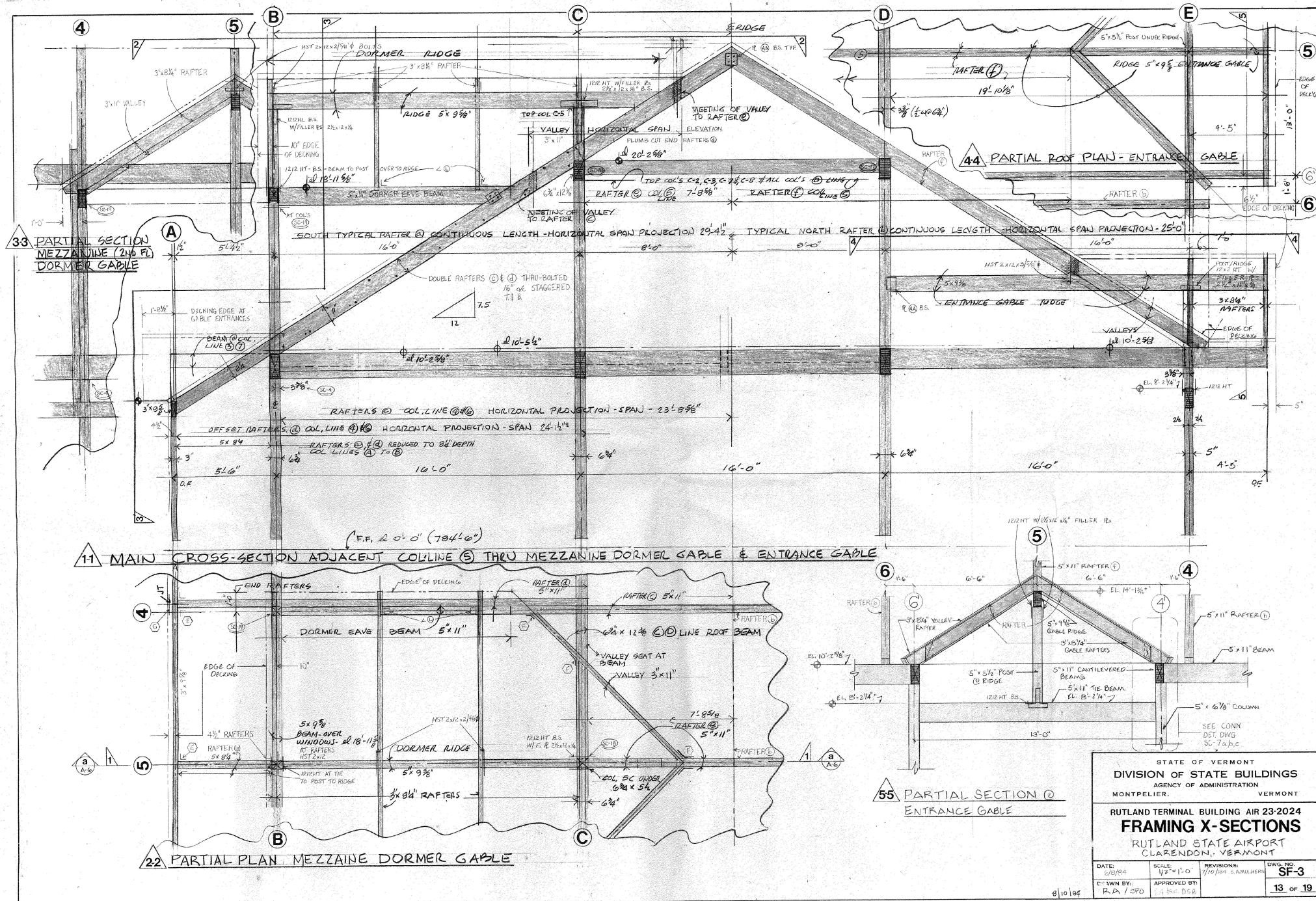
ELEVATION- AIR-SIDE GABLE ENTRANCE FRAMING
SC. 10'-1'-0"



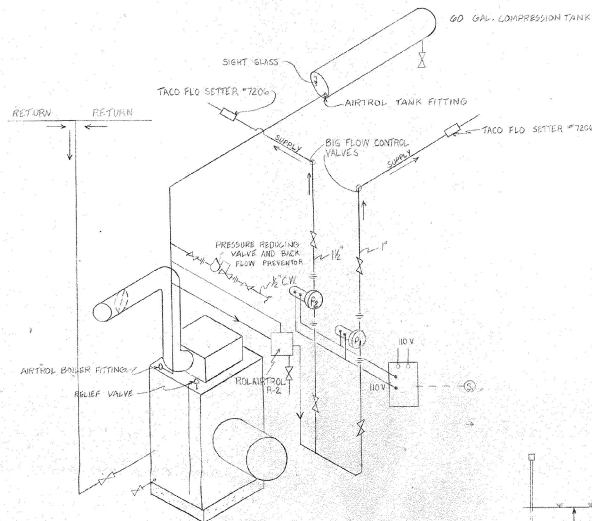
FRAMING PLAN- AIR-SIDE GABLE ENTRANCE ROOF DETAIL
SC. 10'-1'-0"



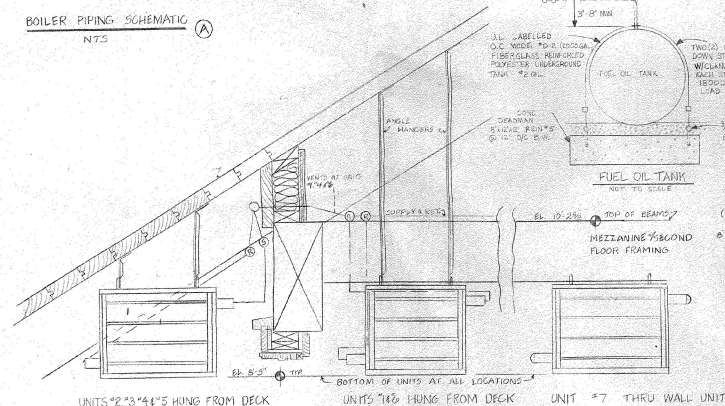
STATE OF VERMONT DIVISION OF STATE BUILDINGS AGENCY OF ADMINISTRATION MONTPELIER, VERMONT			
RUTLAND TERMINAL BUILDING AIR 23-2024			
ROOF FRAMING			
RUTLAND STATE AIRPORT CLARENDON, VERMONT			
DATE: 6/8/84	SCALE: 1/2" = 1'-0"	REVISIONS: 7/10/84 SA, HULMER	DWG. NO. SF-2
DRAWN BY: JTD	APPROVED BY: JAH, RLS	12 OF 19	



VOLTS 208/120										VOLTS 208/120										VOLTS 208/120										VOLTS 208/120									
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FUSE ONLY										FUSE ONLY										FUSE ONLY										FUSE ONLY									
NEUTRAL ON										NEUTRAL ON										NEUTRAL ON										NEUTRAL ON									
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BKR A.I.C. OK										BKR A.I.C. OK										BKR A.I.C. OK										BKR A.I.C. OK									
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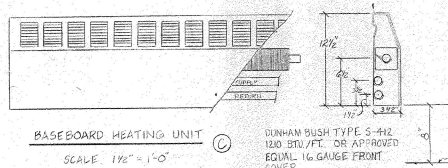


BOILER PIPING SCHEMATIC
NTS

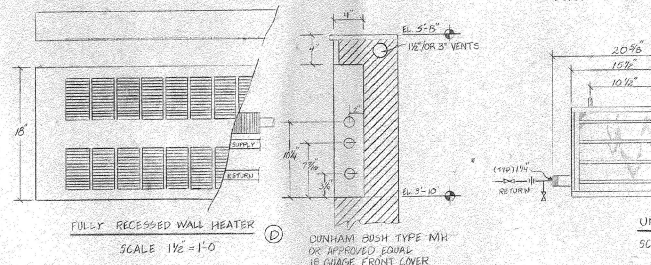
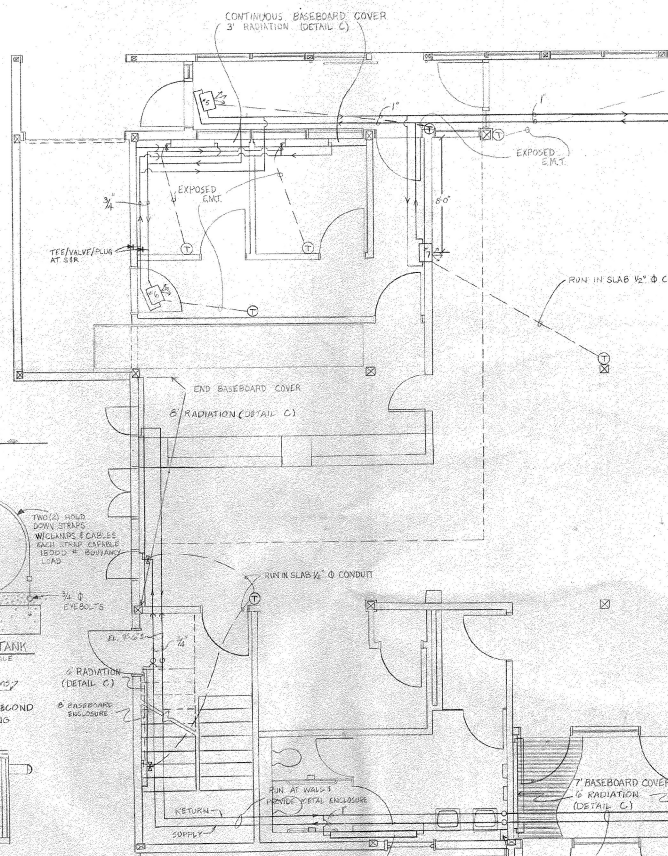


UNITS 2'3"4'5" HUNG FROM DECK
*ALL PIPES COMING TO AND FROM UNIT.
HEATERS ARE TO BE INSULATED.
INSTALL AUTOMATIC AIR VENTS
AT ALL HIGH POINTS.

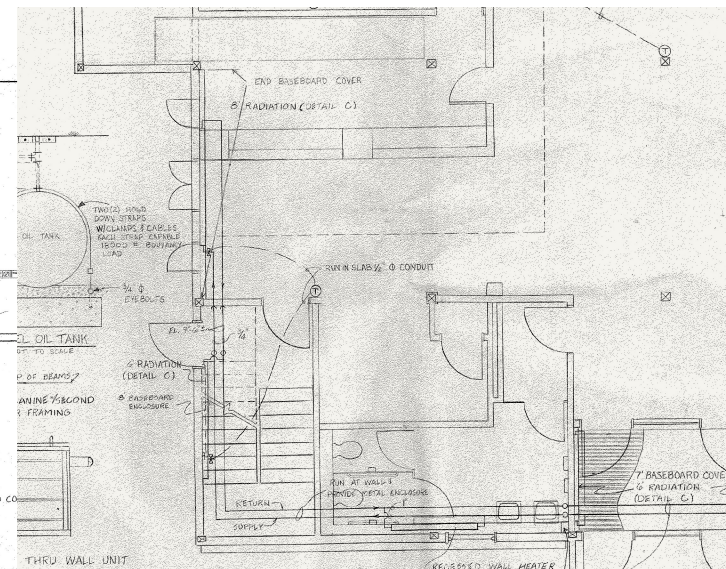
HEATING DETAIL
SCALE 1/8" = 1'-0"



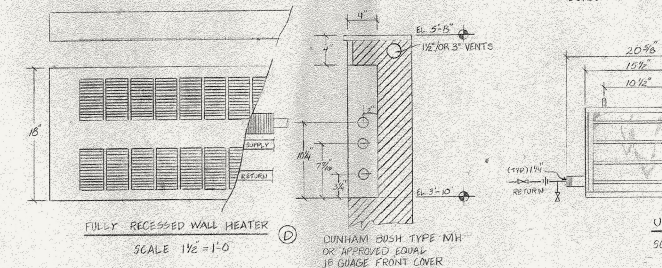
SCALE 1/8" = 1'-0"



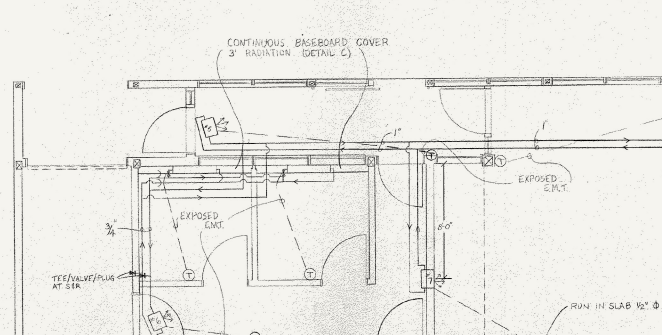
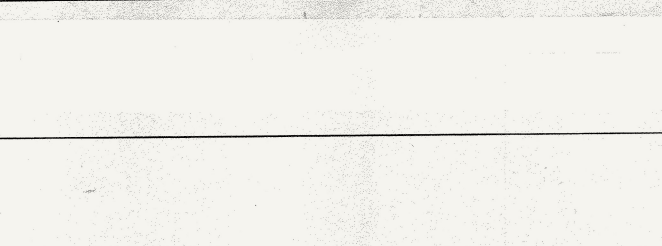
SCALE 1/8" = 1'-0"

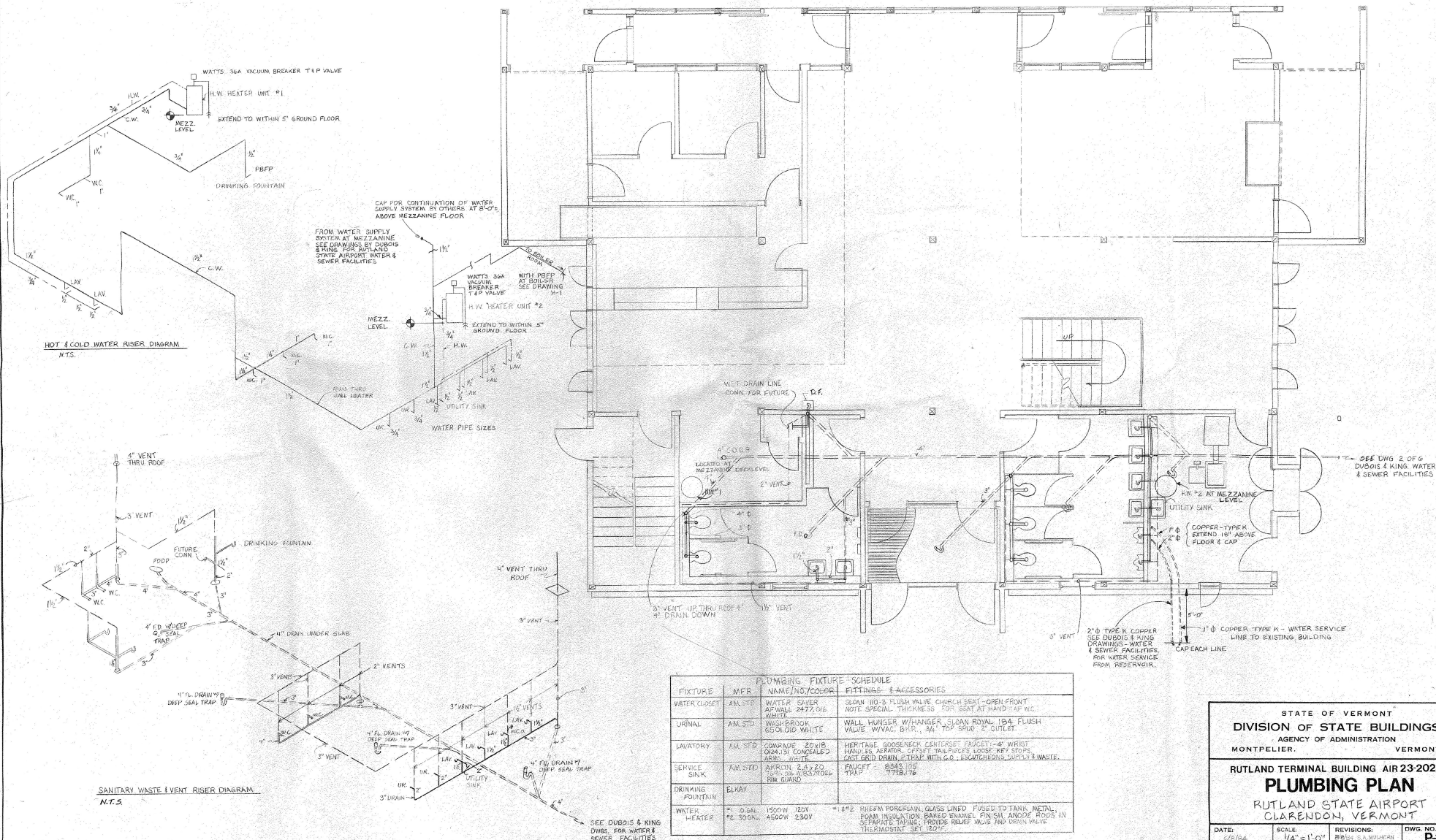


THRU WALL UNIT
RECESSED WALL HEATER
A CONNECTION (DETAIL D)
RUN RISER IN CORNER
TEE/VALVE/PLUG FOR
VESTIBULE RADIATION
HEATING PLAN
SCALE 1/4" = 1'-0"



SCALE 1/8" = 1'-0"





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: 6/5/84

SCALE: 1/4" = 1'-0"

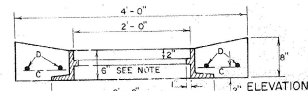
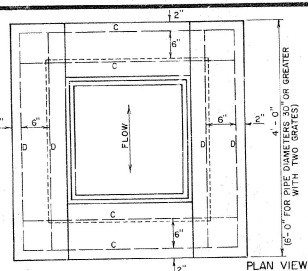
REVISIONS: R0014 C.A. MURPHY

DWG. NO. P-1

DRAWN BY: RBT

APPROVED BY: M. P. O'SP

17 OF 19



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	LENGTH	C, D	LENGTH	G	LENGTH	H	LENGTH	J
3'-0"	15	2'-3"	22	3'-8"	8	3'-0"	15	2'-3"	22	3'-8"	8
3'-6"	15	2'-9"	22	3'-8"	8	3'-6"	15	2'-9"	22	3'-8"	8
4'-0"	15	3'-3"	29	3'-8"	8	4'-0"	15	3'-3"	29	3'-8"	8
4'-6"	15	3'-9"	29	3'-8"	8	4'-6"	15	3'-9"	29	3'-8"	8
5'-0"	15	4'-3"	35	3'-8"	8	5'-0"	15	4'-3"	35	3'-8"	8
5'-6"	15	4'-9"	35	3'-8"	8	5'-6"	15	4'-9"	35	3'-8"	8
6'-0"	15	5'-3"	41	3'-8"	8	6'-0"	15	5'-3"	41	3'-8"	8
6'-6"	15	5'-9"	41	3'-8"	8	6'-6"	15	5'-9"	41	3'-8"	8
7'-0"	15	6'-3"	47	3'-8"	8	7'-0"	15	6'-3"	47	3'-8"	8
7'-6"	15	6'-9"	47	3'-8"	8	7'-6"	15	6'-9"	47	3'-8"	8
8'-0"	15	7'-3"	53	3'-8"	8	8'-0"	15	7'-3"	53	3'-8"	8

STEEL AND CONCRETE QUANTITIES											
4x4 DROP INLET						4x6 DROP INLET WITH TWO GRATES					
12' 15' 18' 24'						30' 36'					
DEPTH	CONCRETE	STEEL	CONCRETE	STEEL	CONCRETE	DEPTH	CONCRETE	STEEL	CONCRETE	STEEL	CONCRETE
3'-0"	1.7	150	1.7	150	1.7	3'-0"	1.7	150	1.7	150	1.7
3'-6"	1.9	158	1.9	158	1.9	3'-6"	1.9	158	1.9	158	1.9
4'-0"	2.1	193	2.1	193	2.1	4'-0"	2.1	193	2.1	193	2.1
4'-6"	2.3	200	2.3	200	2.3	4'-6"	2.3	200	2.3	200	2.3
5'-0"	2.5	231	2.5	231	2.5	5'-0"	2.5	231	2.5	231	2.5
5'-6"	2.8	239	2.8	239	2.8	5'-6"	2.8	239	2.8	239	2.8
6'-0"	3.0	270	3.0	270	3.0	6'-0"	3.0	270	3.0	270	3.0
6'-6"	3.2	278	3.2	278	3.2	6'-6"	3.2	278	3.2	278	3.2
7'-0"	3.5	308	3.5	308	3.5	7'-0"	3.5	308	3.5	308	3.5
7'-6"	3.7	316	3.7	316	3.7	7'-6"	3.7	316	3.7	316	3.7
8'-0"	3.9	347	3.9	347	3.9	8'-0"	3.9	347	3.9	347	3.9

FOR 30" 36" PIPE DEDUCT 0.18 CY. FOR 42" 48" PIPE DEDUCT 0.36 CY. OR 0.18 FOR 1 PIPE
 FOR 24" 30" PIPE DEDUCT 0.26 CY. FOR 36" 42" PIPE DEDUCT 0.42 CY. OR 0.24 FOR 1 PIPE

ALL REINFORCING STEEL TO BE NO. 5 DEFORMED BARS, EVENLY SPACED WITH A MAXIMUM SPACING OF 12" O.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.
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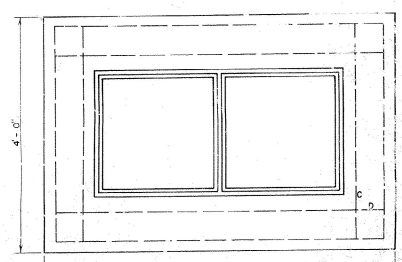
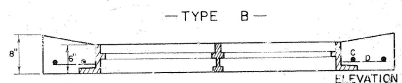
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 FURNISHING AND LAYING OF BRICKS FOR ADJUSTING ELEVATION OF GRATE SHALL BE INCLUDED IN UNIT BID PRICE FOR CONCRETE, CLASS B, PAY ITEM 501.25, AND THEIR VOLUME TO BE INCLUDED IN THE FINAL QUANTITIES.
 MORTAR, TYPE II, TO BE USED AS JOINT FILLER AND 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.

FOR 30" 36" PIPE DEDUCT 0.18 CY. FOR 42" 48" PIPE DEDUCT 0.36 CY. OR 0.18 FOR 1 PIPE
 FOR 24" 30" PIPE DEDUCT 0.26 CY. FOR 36" 42" PIPE DEDUCT 0.42 CY. OR 0.24 FOR 1 PIPE

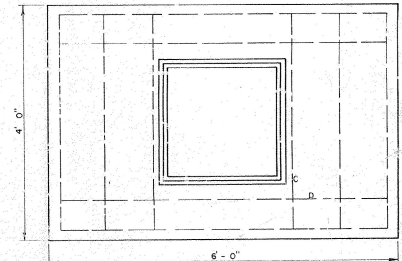
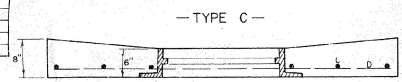
ALL REINFORCING STEEL TO BE NO. 5 DEFORMED BARS, EVENLY SPACED WITH A MAXIMUM SPACING OF 12" O.C.
 ALL STEEL TO HAVE 2 INCH MIN. COVER.
 DROP INLET TO BE CONSTRUCTED IN ACCORDANCE WITH STRUCTURAL CONCRETE, SECTION 501.
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4'x6' DROP INLET
TOP WITH TWO CAST IRON GRATES

STEEL AND CONCRETE QUANTITIES											
4x6 DROP INLET WITH ONE GRATE						WITH 4x4 TOP TYPE D					
30'						36'					
DEPTH	CONCRETE	STEEL	CONCRETE	STEEL	CONCRETE	DEPTH	CONCRETE	STEEL	CONCRETE	STEEL	CONCRETE
5'-0"	3.2	315	3.1	313	3.1	5'-0"	3.2	315	3.1	313	3.1
5'-6"	3.5	322	3.4	322	3.4	5'-6"	3.5	322	3.4	322	3.4
6'-0"	3.8	358	3.7	358	3.7	6'-0"	3.8	358	3.7	358	3.7
6'-6"	4.1	382	4.0	382	4.0	6'-6"	4.1	382	4.0	382	4.0
7'-0"	4.4	413	4.3	413	4.3	7'-0"	4.4	413	4.3	413	4.3
7'-6"	4.7	427	4.6	427	4.6	7'-6"	4.7	427	4.6	427	4.6
8'-0"	5.0	463	4.9	463	4.9	8'-0"	5.0	463	4.9	463	4.9



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

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

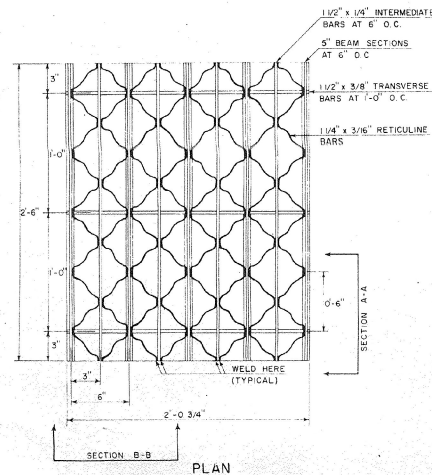
APPROVED
April 2, 1973
DATE
R. H. Arnold
CHIEF ENGINEER
E. H. Sherman
ASST. CHIEF ENGINEER
J. M. Low
HIGHWAY ENGINEER

REINFORCED CONCRETE DROP INLET WITH GRATE
FOR USE IN DITCHES

VERMONT
DEPARTMENT
OF HIGHWAYS
STANDARD

D-6

STEEL GRATE

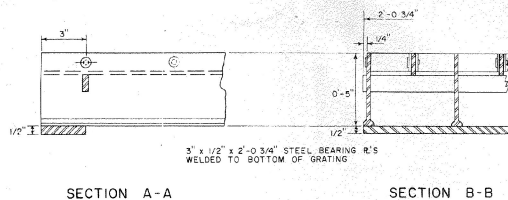


GRATE SIZE SINGLE 24 3/4" x 30"
DOUBLE 24 3/4" x 54"

WEIGHT 95 LBS OR MORE

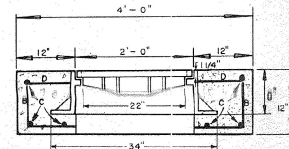
GRATES SHALL BE CAPABLE OF SUPPORTING H-20 (32,000 LB AXLE LOAD) INCLUDING 20% IMPACT.

UNIT STRESSES (LBS PER SQ IN.)	16,000	20,000
MAIN BAR PARALLEL TO TRAFFIC	45	53
MAIN BAR PERPENDICULAR TO TRAFFIC	39	42



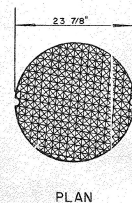
CAST IRON COVER WITH FRAME

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



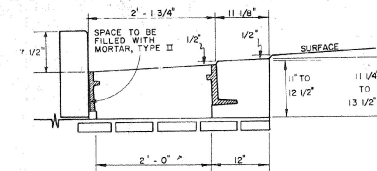
ELEVATION

ALL REINFORCING STEEL TO BE NO. 5 DEFORMED BARS



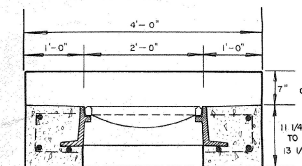
GENERAL NOTES
1. WEIGHT OF FRAME AND COVER = 425 LBS.

CAST IRON GRATE WITH FRAME



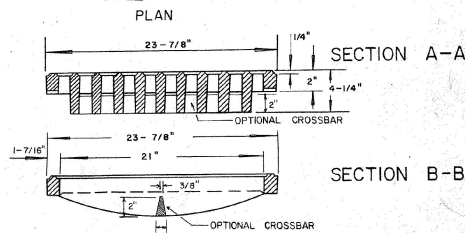
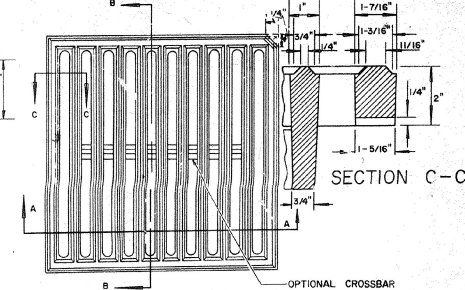
ELEVATION OF REINFORCED CONCRETE DROP INLET WITH VERTICAL GRANITE CURB AND 3 FLANGE CAST IRON FRAME FOR CAST IRON GRATE

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



ELEVATION

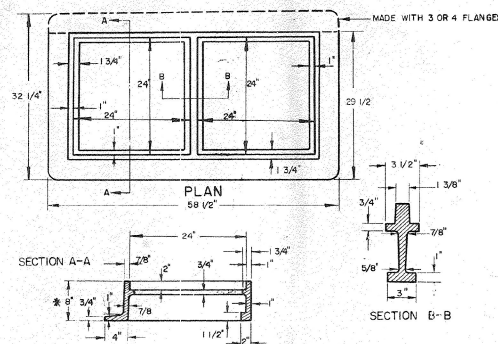
SUBSTITUTION OF CUT CORNER ON GRATE MAY BE MADE.



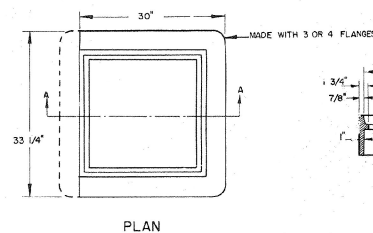
WEIGHT OF 3 FLANGED FRAME AND GRATE	
GRATE	220 LBS
FRAME	260 LBS
TOTAL	480 LBS

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 "A" WHEN USED IN CONJUNCTION WITH DROP INLET DETAILED ON STANDARD D-6.

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 10-6-91

R. W. Carroll
CHIEF ENGINEER
E. J. Steinhilber
ASST. CHIEF ENGINEER
G. M. Lane
HIGHWAY ENGINEER

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

STEEL GRATE
CAST IRON GRATE TYPE A
CAST IRON COVER



STANDARD
D-11