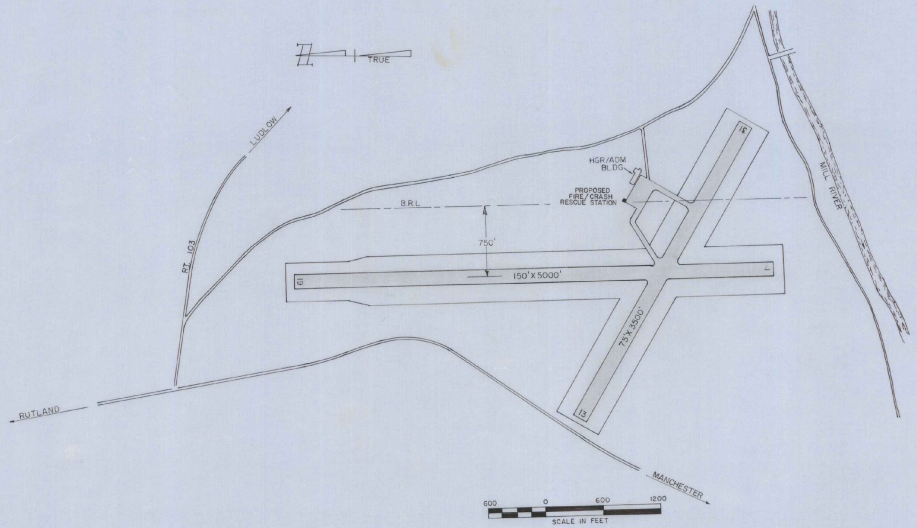
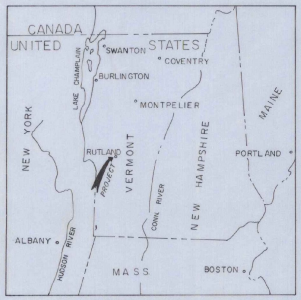
INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LAYOUT
3	ELEVATIONS
4	FLOOR PLAN
5	WALL DETAILS
6	PRECAST ROOF GIRDERS
7	FRAMING DETAILS
8	PLUMBING / ELECTRICAL PLAN
9	HEATING PLAN

RUTLAND STATE AIRPORT
CLARENDON, VERMONT

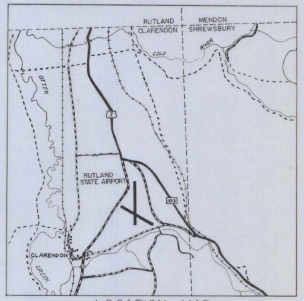
MAINTENANCE
FIRE / CRASH-RESCUE STATION

ADAP NO. 5-50-0015-05





VICINITY MAP



LOCATION MAP

REVISIONS	
DESCRIPTION	DATE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

APPROVED _____ DATE _____
CHIEF AIRPORTS BRANCH
AIRPORTS DIVISION

RUTLAND STATE AIRPORT
CLARENDON, VERMONT

DEPARTMENT OF AERONAUTICS

APPROVED _____ DATE _____
COMMISSIONER

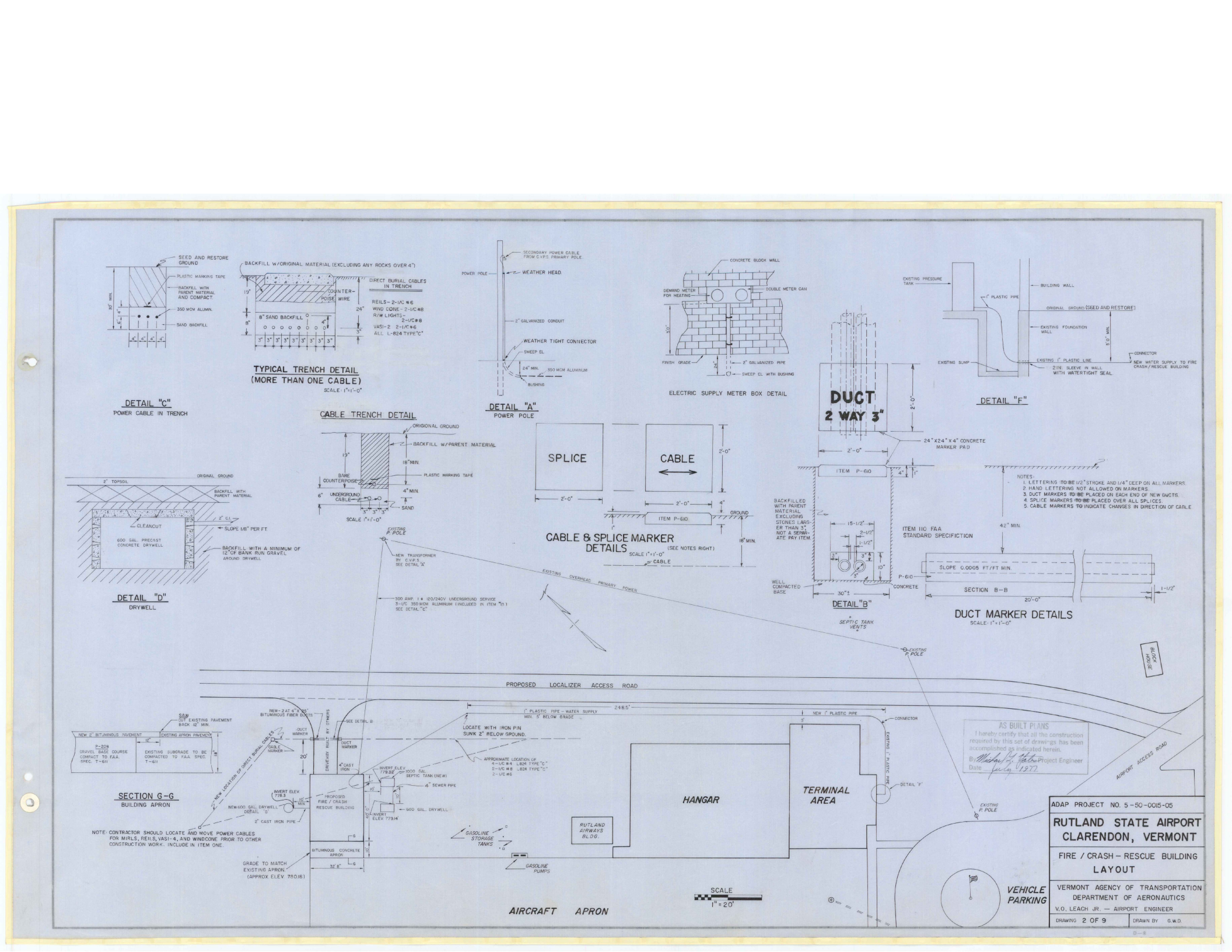
APPROVED _____ DATE _____
AIRPORT ENGR.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
DEPARTMENT OF AERONAUTICS

MONTPELIER, VERMONT

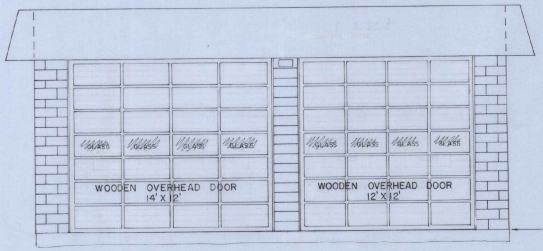
VAIL O. LEACH — ENGR.
DATE

AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
By Michael L. Gates Project Engineer
Date July 1977

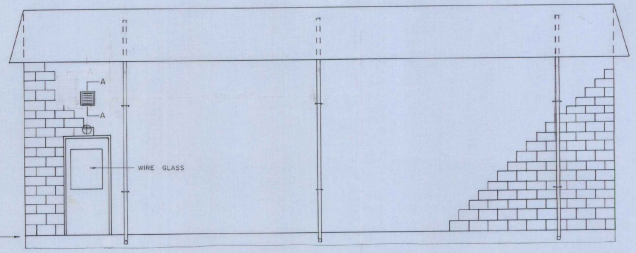

SEED AND RESTORE GROUND
PLASTIC MARKING TAPE
BACKFILL WITH PARENT MATERIAL AND COMPACT.
350 MCM ALUMIN.
SAND BACKFILL
BACKFILL W/ORIGINAL MATERIAL (EXCLUDING ANY ROCKS OVER 4")
DIRECT BURIAL CABLES IN TRENCH
COUNTER-POISE WIRE
8" SAND BACKFILL
REILS- 2-1/C #6
WIND CONE- 2-1/C #8
R/W LIGHTS- 2-1/C #8
VASI-2 2-1/C #6
ALL L-824 TYPE "C"
TYPICAL TRENCH DETAIL
(MORE THAN ONE CABLE)
SCALE: 1"=1'-0"
DETAIL "C"
POWER CABLE IN TRENCH
SECONDARY POWER CABLE FROM C.V.P.S. PRIMARY POLE
POWER POLE
WEATHER HEAD
2" GALVANIZED CONDUIT
WEATHER TIGHT CONNECTOR
SWEEP EL.
24" MIN.
350 MCM ALUMINUM
BUSHING
DETAIL "A"
POWER POLE
CONCRETE BLOCK WALL
DEMAND METER FOR HEATING
DOUBLE METER CAN
30"
FINISH GRADE
24"
2" GALVANIZED PIPE
SWEEP EL. WITH BUSHING
ELECTRIC SUPPLY METER BOX DETAIL
CABLE TRENCH DETAIL
ORIGIONAL GROUND
BACKFILL W/PARENT MATERIAL
18" MIN.
PLASTIC MARKING TAPE
BARE COUNTERPOISE
UNDERGROUND CABLE
4" MIN.
SAND
SCALE 1"=1'-0"
SPLICE
CABLE
2'-0"
ITEM P-610
GROUND
18" MIN.
CABLE & SPLICE MARKER DETAILS
SCALE 1"=1'-0" (SEE NOTES RIGHT)
DUCT
2 WAY 3"
24"X24"X4" CONCRETE MARKER PAD
BACKFILLED WITH PARENT MATERIAL EXCLUDING STONES LARGER THAN 3", NOT A SEPARATE PAY ITEM.
WELL COMPACTED BASE
30"±
CONCRETE
15-1/2"
2-1/2"
1-1/2"
3"
10"
DETAIL "B"
EXISTING PRESSURE TANK
BUILDING WALL
1" PLASTIC PIPE
ORIGINAL GROUND (SEED AND RESTORE)
EXISTING FOUNDATION WALL
5'0" MIN.
EXISTING SUMP
EXISTING 1" PLASTIC LINE
CONNECTOR
NEW WATER SUPPLY TO FIRE CRASH/RESCUE BUILDING
2" I.N. SLEEVE IN WALL WITH WATERTIGHT SEAL.
DETAIL "F"
NOTES:
1. LETTERING TO BE 1/2" STROKE AND 1/4" DEEP ON ALL MARKERS.
2. HAND LETTERING NOT ALLOWED ON MARKERS.
3. DUCT MARKERS TO BE PLACED ON EACH END OF NEW DUCTS.
4. SPLICE MARKERS TO BE PLACED OVER ALL SPLICES.
5. CABLE MARKERS TO INDICATE CHANGES IN DIRECTION OF CABLE
ITEM 110 FAA STANDARD SPECIFICTION
42" MIN.
SLOPE 0.0005 FT/FT MIN.
P-610
CONCRETE
SECTION B-B
20'-0"
1-1/2"
DUCT MARKER DETAILS
SCALE: 1"=1'-0"
ORIGINAL GROUND
2" TOPSOIL
BACKFILL WITH PARENT MATERIAL
2" CI.
CLEANOUT
SLOPE 1/8" PER FT.
600 GAL. PRECAST CONCRETE DRYWELL
BACKFILL WITH A MINIMUM OF 12" OF BANK RUN GRAVEL AROUND DRYWELL
DETAIL "D"
DRYWELL
EXISTING P. POLE
NEW TRANSFORMER BY C.V.P.S. SEE DETAIL 'A'
EXISTING OVERHEAD PRIMARY POWER
300 AMP. 1 ø (120/240V UNDERGROUND SERVICE 3-1/C 350 MCM ALUMINUM (INCLUDED IN ITEM "L") SEE DETAIL "C"
SEPTIC TANK VENTS
EXISTING P. POLE
BLOCK HOUSE
PROPOSED LOCALIZER ACCESS ROAD
1" PLASTIC PIPE - WATER SUPPLY MIN. 5' BELOW GRADE
248.5'
NEW 1" PLASTIC PIPE
CONNECTOR
EXISTING 1" PLASTIC PIPE
DETAIL 'F'
SAW CUT EXISTING PAVEMENT BACK 12" MIN.
NEW 2" BITUMINOUS PAVEMENT
EXISTING APRON PAVEMENT
P-209 GRAVEL BASE COURSE COMPACT TO F.A.A. SPEC. T-611
EXISTING SUBGRADE TO BE COMPACTED TO F.A.A. SPEC. T-611
12"
18"
SECTION G-G
BUILDING APRON
NEW-2 AT 4"x 4" BITUMINOUS FIBER DUCTS
SEE DETAIL B
DUCT MARKER
CABLE MARKER
20'
DRIVEWAY RUN BY OTHERS
4" CAST IRON
NEW LOCATION OF DIRECT BURIAL CABLES
LOCATE WITH IRON PIN SUNK 2" BELOW GROUND.
APPROXIMATE LOCATION OF 4-1/C #4 L824 TYPE "C" 2-1/C #8 L824 TYPE "C" 2-1/C #6
INVERT ELEV. 779.33
1000 GAL. SEPTIC TANK (NEW)
4" SEWER PIPE
INVERT ELEV. 778.3
10' MIN.
NEW 600 GAL. DRYWELL DETAIL 'D'
PROPOSED FIRE / CRASH RESCUE BUILDING
INVERT ELEV. 779.14
600 GAL. DRYWELL
2" CAST IRON PIPE
BITUMINOUS CONCRETE APRON
32'-8"
GRADE TO MATCH EXISTING APRON. (APPROX. ELEV. 780.18)
NOTE: CONTRACTOR SHOULD LOCATE AND MOVE POWER CABLES FOR MIRLS, REILS, VASI-4, AND WINDCONE PRIOR TO OTHER CONSTRUCTION WORK. INCLUDE IN ITEM ONE.
HANGAR
TERMINAL AREA
RUTLAND AIRWAYS BLDG.
GASOLINE STORAGE TANKS
GASOLINE PUMPS
AIRCRAFT APRON
VEHICLE PARKING
AIRPORT ACCESS ROAD
SCALE
1" = 20'
AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
By Project Engineer
Date July 1977
ADAP PROJECT NO. 5-50-0015-05
RUTLAND STATE AIRPORT
CLARENDON, VERMONT
FIRE / CRASH - RESCUE BUILDING
LAYOUT
VERMONT AGENCY OF TRANSPORTATION
DEPARTMENT OF AERONAUTICS
V.O. LEACH JR. — AIRPORT ENGINEER
DRAWING 2 OF 9
DRAWN BY G.W.D.

GENERAL NOTES

1. FINISH GRADE ~~TO BE~~ WITHIN 6" OF TOP OF FOUNDATION.
2. FINAL GRADE ~~SHALL BE~~ SUCH THAT ALL DRAINAGE IS AWAY FROM THE BUILDING.
3. ~~EXTERIOR CONCRETE BLOCKS TO BE SEALED WITH A 5% SILICONE SOLUTION.~~
4. TWO COATS OF PAINT ON DOORS AS PER SPEC. 9.11.
5. EXTERIOR CONCRETE BLOCK SURFACES COVERED WITH 3" DRYVIT INSULATION.

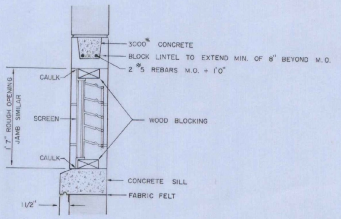


FRONT ELEVATION

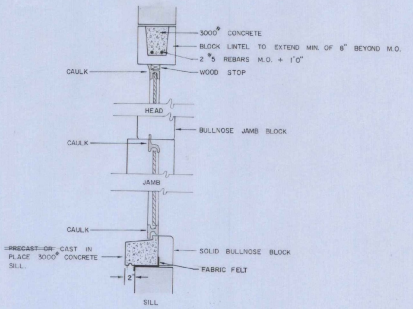


RIGHT SIDE ELEVATION

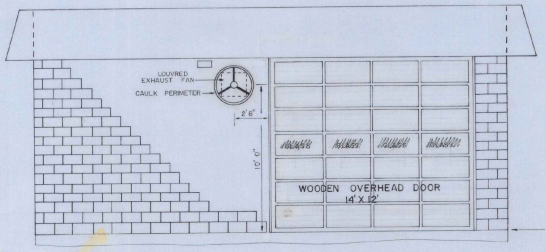
SCALE 1/4" = 1'0"



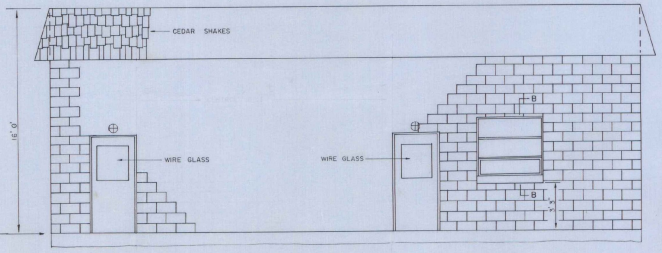
SECTION A—A
THRU INLET SHUTTER (16"X16")
MOTOR DRIVEN
SCALE 1"=1'



SECTION B—B
SCALE 1"=1'



REAR ELEVATION



LEFT SIDE ELEVATION

AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
By Michael J. Yates Project Engineer
Date July 1, 1977

ADAP PROJECT NO. 5-50-0015-05

RUTLAND STATE AIRPORT
CLARENDON, VERMONT

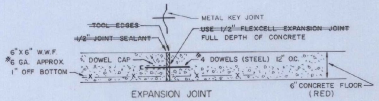
FIRE / CRASH – RESCUE BUILDING
ELEVATIONS

VERMONT AGENCY OF TRANSPORTATION
DEPARTMENT OF AERONAUTICS
V.O. LEACH JR. — AIRPORT ENGINEER

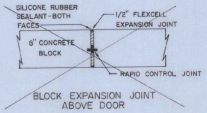
DRAWING 3 OF 9 | DRAWN BY G.W.D.

D—8

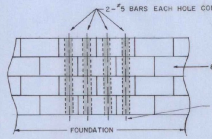
NOTES:
1. ALL EXPOSED CONCRETE ~~TO BE~~ RUBBED TO 4" BELOW FINISH GRADE.
2. DAMPPROOF OUTSIDE OF ALL EXTERIOR UNDERGROUND WALL SURFACES.
3. ALL CONCRETE ~~TO BE~~ 3000# WITH 4" SLUMP UNLESS OTHERWISE NOTED.
4. ALL EXCAVATED AREAS ~~TO BE~~ RESTORED TO GRASS AFTER COMPLETION OF BUILDING AS PER SEC. 1.16 & 1.17.
5. WINDOW ~~TO BE~~ EQUAL TO HOPES' S.I.P.
6. 6"X6" WWF ~~TO BE~~ OVERLAID 6" MIN.



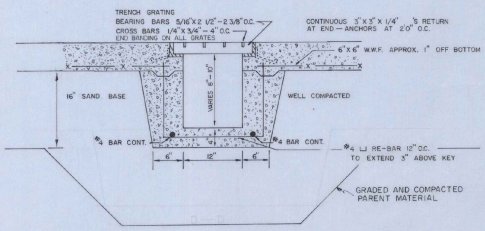
EXPANSION JOINT
E—E



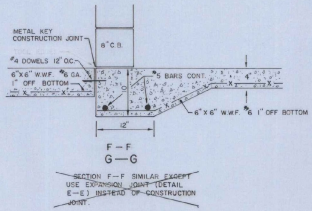
BLOCK EXPANSION JOINT ABOVE DOOR
H—H



DETAIL TYPICAL EACH PILASTER
SCALE 1/2"=1'

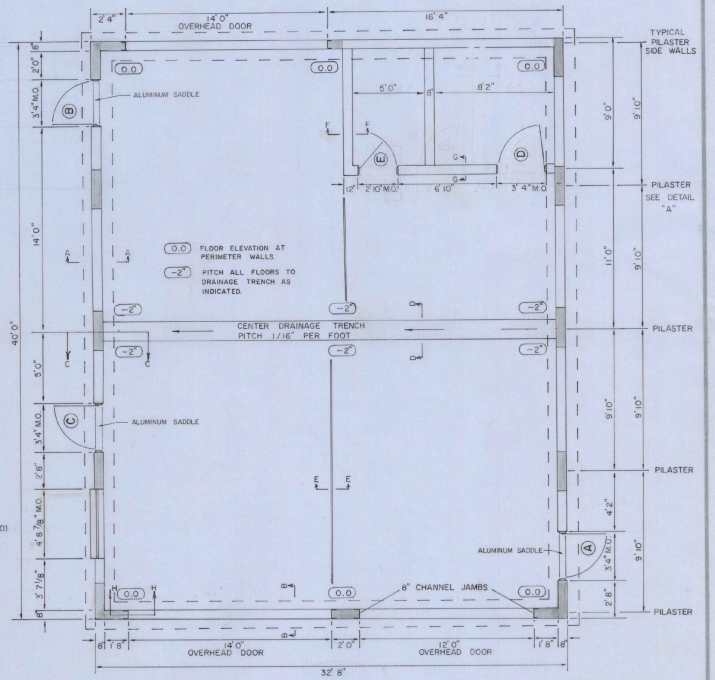


D—D

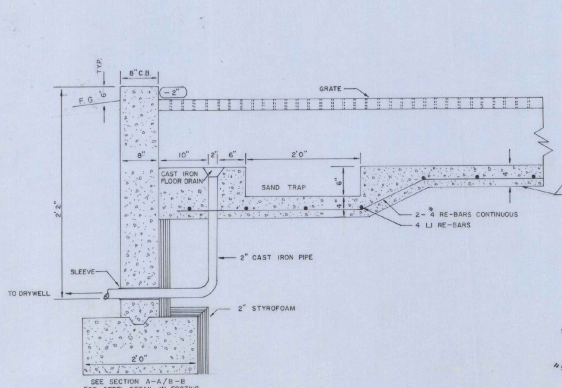


F—F
G—G
SECTION F—F SIMILAR EXCEPT USE EXPANSION JOINT DETAIL E—E INSTEAD OF CONSTRUCTION JOINT.

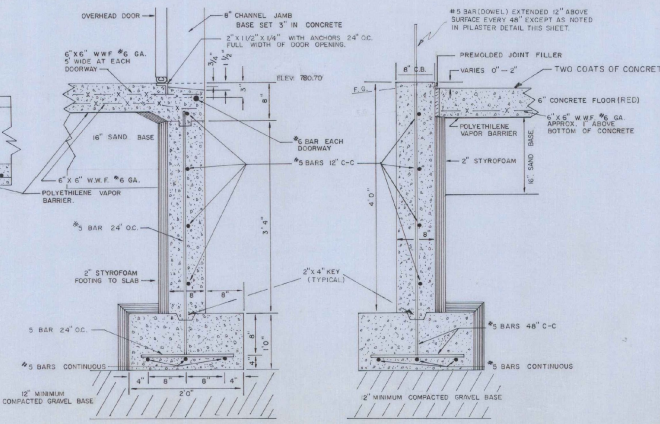
DETAILS SCALE
1" = 1'0"



PLAN SCALE
1/4" = 1'0"



C—C



B—B

A—A

AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
By Michael J. Yates Project Engineer
Date July 6 1977

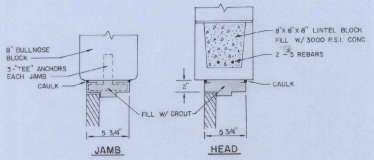
ADAP PROJECT NO. 5-50-0015-05

RUTLAND STATE AIRPORT CLARENDON, VERMONT

FIRE / CRASH - RESCUE BUILDING
FLOOR PLAN

VERMONT AGENCY OF TRANSPORTATION
DEPARTMENT OF AERONAUTICS
V.O. LEACH JR. - AIRPORT ENGINEER

DRAWING 4 OF 9 | DRAWN BY G.W.D.



DOOR DETAILS FOR HOLLOW METAIL FRAMES

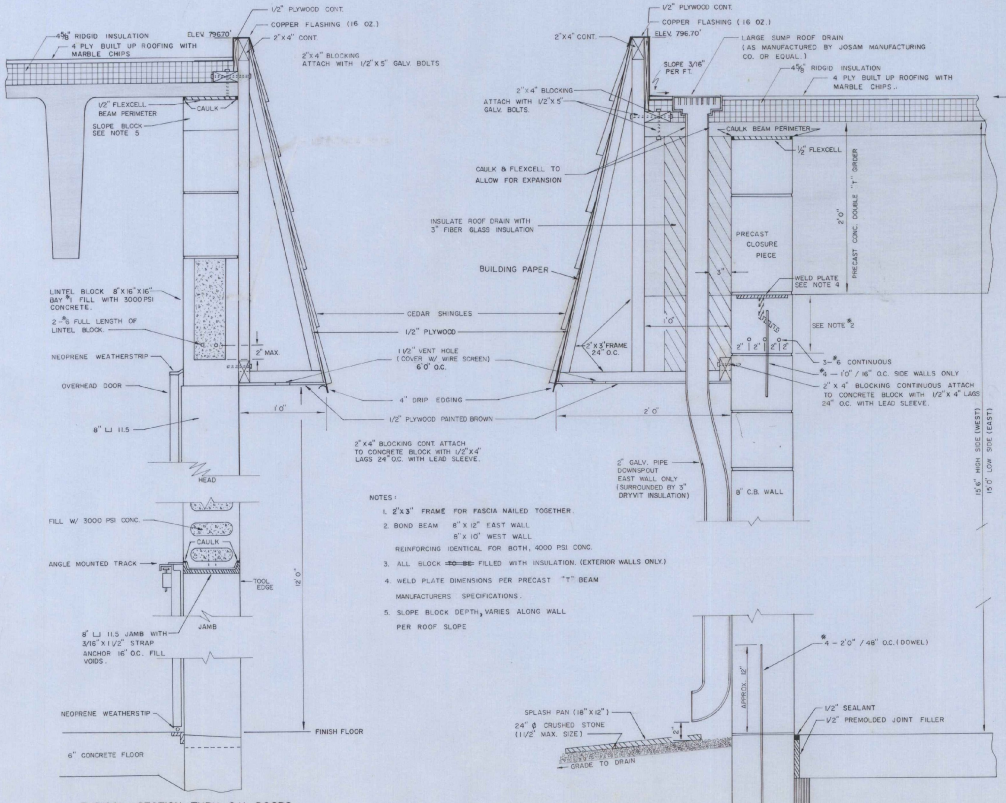
GENERAL NOTES

1. ROOF DESIGN LOAD L.L. + 50 P.S.F.
2. CAULK ALL JOINTS BETWEEN MASONRY AND DISSIMILAR MATERIALS.
3. EXTERIOR DOORS ~~TO~~ HAVE NON-REMOVABLE PIN HINGES.
4. PRECAST DOUBLE-TEE ROOF BEAMS ARE NOT ~~TO BE~~ PAINTED.
5. ALL DOORS ~~TO~~ HAVE SAME LOCK AND KEY PROVIDED BY CONTRACTOR.

DOOR SCHEDULE

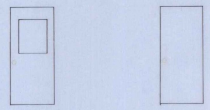
TYPE	SIZE	REMARKS
I	6'8"X3'0"	A - EXTERIOR HOLLOW METAL W/ LOCK
I	6'8"X3'0"	B - EXTERIOR HOLLOW METAL W/ LOCK
I	6'8"X3'0"	C - EXTERIOR HOLLOW METAL W/ LOCK
II	6'8"X3'0"	D - INTERIOR HOLLOW METAL
II	6'8"X2'6"	E - INTERIOR HOLLOW METAL W/ LOCK
O.H.	12' X 12'	WOODEN OVERHEAD DOOR
O.H.	12' X 14'	WOODEN OVERHEAD DOOR
O.H.	12' X 14'	WOODEN OVERHEAD DOOR

NOTES
1. ALL DOORS & FRAMES EXCEPT FOR OVERHEAD DOORS ~~TO BE~~ HOLLOW METAL.
2. ALL GLASS TO BE 1/4" PL. WIRE GLASS
3. EXTERIOR WALKWAY DOORS ~~TO~~ HAVE ALUMINUM SADDLES.
4. WALKWAY DOORS ~~TO BE~~ WEATHERSTRIPPED - ALL SIDES. (EXTERIOR DOORS)
5. WOODEN O.H. DOORS ~~TO~~ HAVE GLASS PANEL INSERTS & HEAVY DUTY TORSION SPRINGS MOUNTED ON ANGLE TRACK - DOORS ~~TO BE~~ OPERATED BY ELECTRONIC DOOR OPENER.

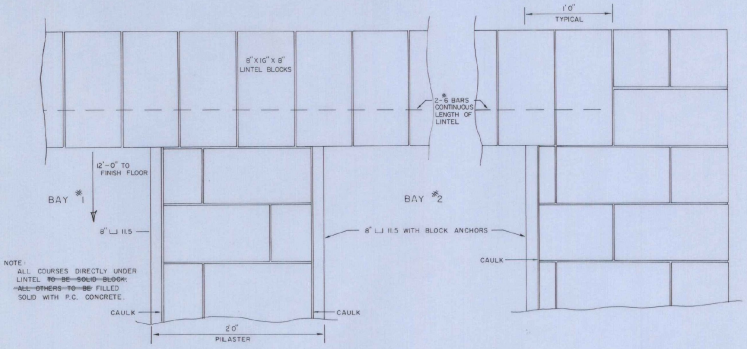


TYPICAL SECTION THRU O.H. DOORS FRONT & BACK WALLS
1 1/2" = 1'0"

TYPICAL SECTION - RIGHT & LEFT WALLS
1 1/2" = 1'0"



DOOR TYPICAL
1/4" = 1'0"



TYPICAL SECTION AT O.H. DOOR PILASTER
1 1/2" = 1'0"

AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
By Michael J. Yates Project Engineer
Date July 1977

ADAP PROJECT NO. 5-50-0015-05

RUTLAND STATE AIRPORT CLARENDON, VERMONT

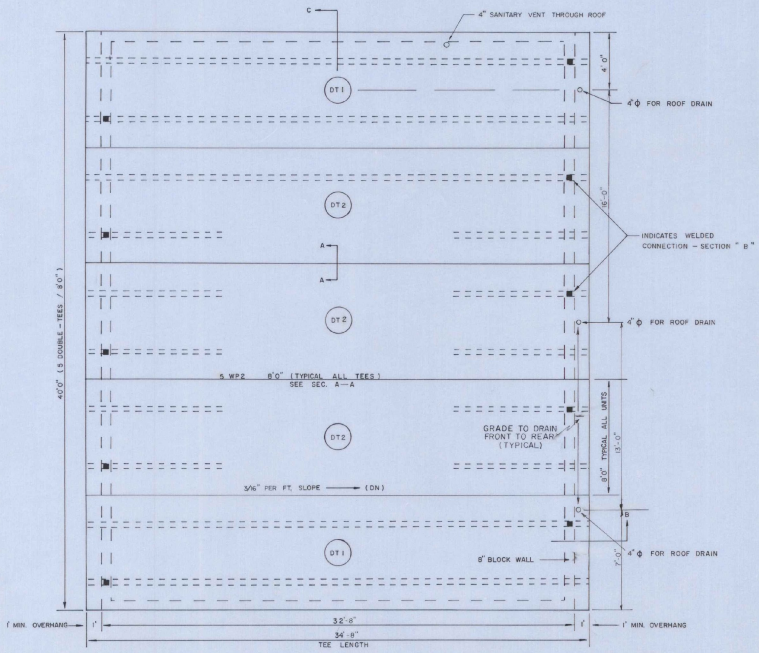
FIRE / CRASH - RESCUE BUILDING

WALL DETAILS

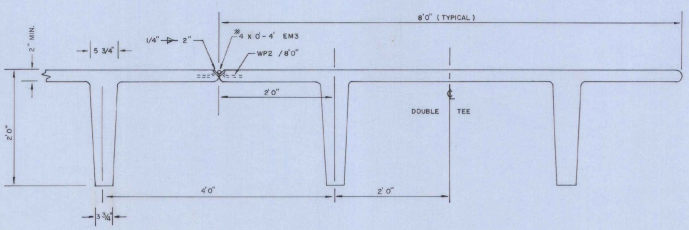
VERMONT AGENCY OF TRANSPORTATION
DEPARTMENT OF AERONAUTICS
V.O. LEACH JR. - AIRPORT ENGINEER

DRAWING 5 OF 9 | DRAWN BY G.W.D.

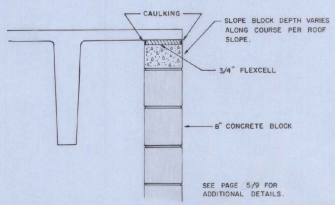
D-8



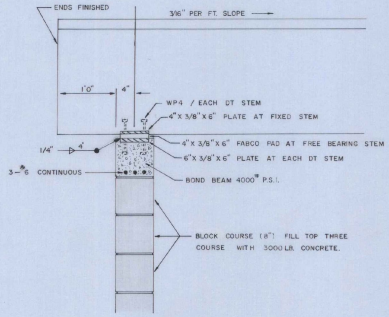
ROOF FRAMING PLAN



SECTION A—A
1" = 1'-0"



SECTION C
1" = 10'-0"



SECTION B
1" = 1'-0"

TYPICAL EAST & WEST WALL

GENERAL NOTES

1. THE CONTRACTOR FURNISHED SHOP DRAWINGS FOR APPROVAL BEFORE RELEASE FOR FABRICATION.
2. THE CONTRACTOR FURNISHED MANUFACTURER'S ENGINEER'S CERTIFICATE FOR COMPLIANCE WITH DESIGN LOADING.
3. ALL EXPOSED PRECAST DOUBLE TEE SLABS AND WEBS ARE NOT ~~TO BE~~ PAINTED; ALL SURFACES NOT UNIFORM IN FINISH WHEN INSTALLED WERE POINTED UP AND RUBBED.
4. ALL UTILITY PIPING ATTACHMENTS AND ANCHORS TO DOUBLE TEES ARE ~~TO BE~~ PLACED NOT LESS THEN 1'0" FROM BOTTOM OF WEB. THE CONTRACTOR DID NOT DRILL ANY HOLES THROUGH WEBS.
5. ALL PRECAST DOUBLE TEES WERE WELDED DURING INSTALLATION.
6. CONCRETE : 5000 P.S.I. CONCRETE / 28 DAYS.

AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
By Project Engineer
Date July 1972

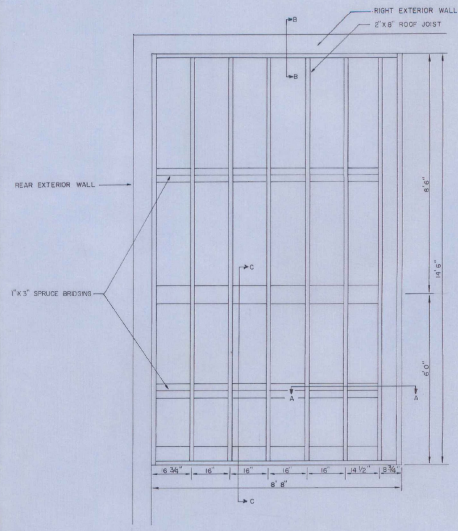
ADAP PROJECT NO. 5-50-0015-05

RUTLAND STATE AIRPORT
CLARENDON, VERMONT

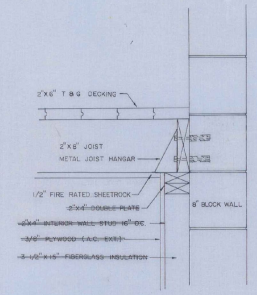
FIRE / CRASH - RESCUE BUILDING
PRECAST ROOF BEAM DETAILS

VERMONT AGENCY OF TRANSPORTATION
DEPARTMENT OF AERONAUTICS
V.O. LEACH JR. — AIRPORT ENGINEER

DRAWING 6 OF 9 | DRAWN BY G.W.D.

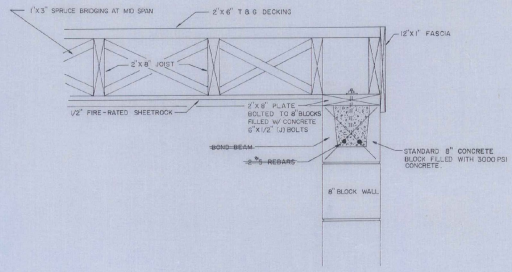


UTILITY AREA ROOF DETAIL
1/2" = 1'-0"

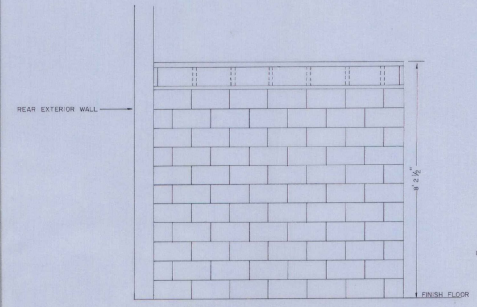


B—B
1 1/2" = 1'-0"

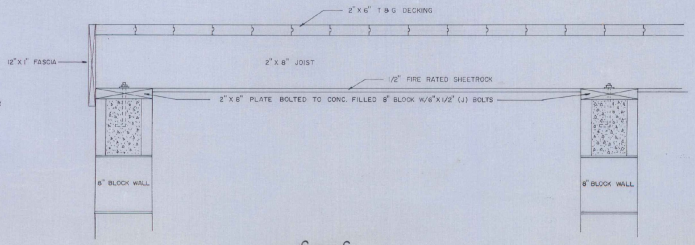
NOTES:
1. ALL DECKING, FRAMING & FINISH LUMBER [redacted] KILN DRIED SPRUCE - FIRE RATED (1 HOUR)
2. ATTACH 2"X8" ROOF JOIST TO BEARING HEADER WITH METAL JOIST HANGARS
3. ~~DISCONTINUE BOND BEAM OVER INTERIOR DOOR OPENINGS~~
4. ALL "J" BOLTS 4'0" O.C. MAX.



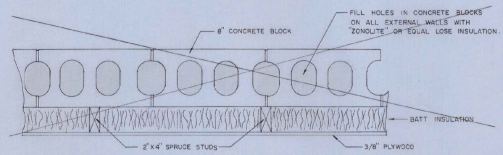
A—A
1 1/2" = 1'-0"

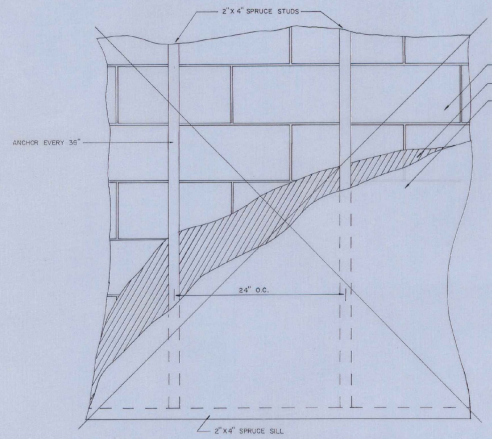


LEFT UTILITY AREA WALL ELEVATION
1/2" = 1'-0"



C — C
1 1/2" = 1'-0"





INTERIOR FRAMING DETAIL
SCALE 1 1/2" = 1'-0"

NOTES:
1. PLYWOOD & BATT INSULATION FROM FLOOR TO 12'-0" ABOVE FLOOR - TYPICAL (INSIDE OF EXTERIOR WALLS ONLY.)
2. PLACE WOODEN MOLDING AROUND WINDOW & DOOR FRAMES.
3. ALL FRAME & FINISH LUMBER TO BE FIRE RATED (1 HOUR).
4. ALL PLYWOOD TO BE PAINTED AS PER SPEC.
5. ALL FRAME LUMBER TO BE KILN DRIED SPRUCE.

AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
By Project Engineer
Date July 6, 1977

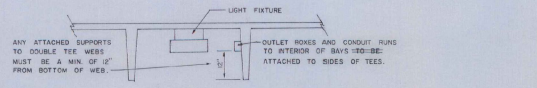
ADAP PROJECT NO. 5-50-0015-05

RUTLAND STATE AIRPORT
CLARENDON, VERMONT

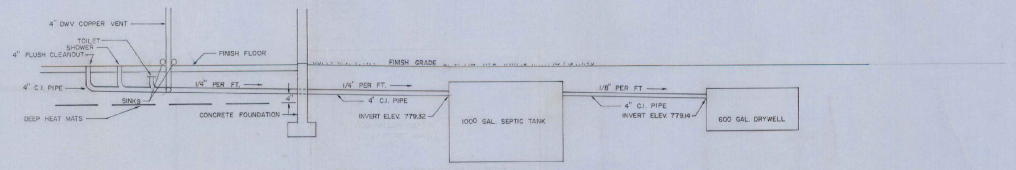
FIRE / CRASH — RESCUE BUILDING
FRAMING DETAILS

VERMONT AGENCY OF TRANSPORTATION
DEPARTMENT OF AERONAUTICS
V.O. LEACH JR. — AIRPORT ENGINEER

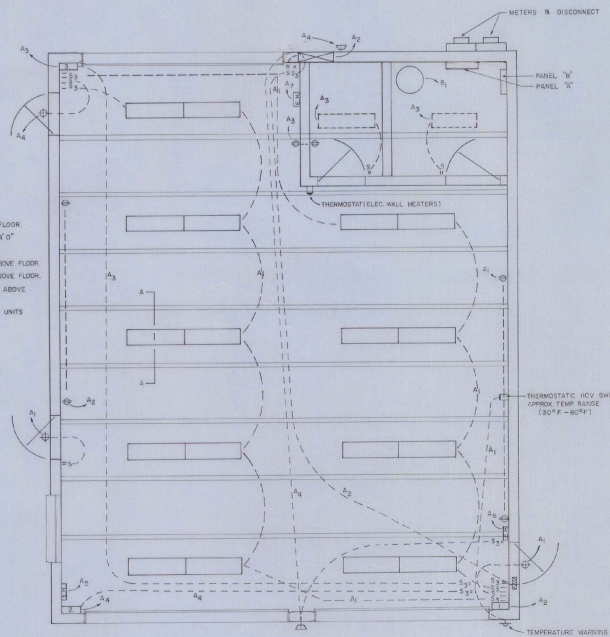
DRAWING 7 OF 9 | DRAWN BY G.W.D.



SECTION A—A

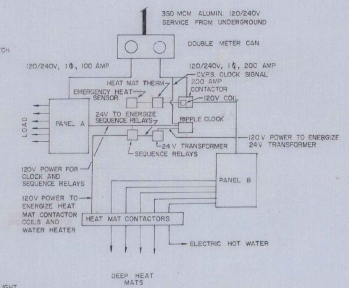


PLUMBING PROFILE
NO SCALE



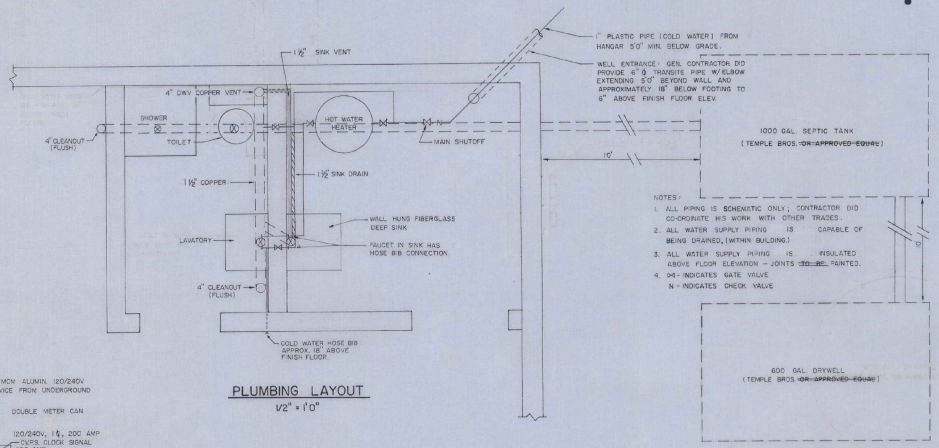
NOTES:
1. ALL SWITCHES ~~TO BE~~ 48" ABOVE FLOOR.
2. ALL CONVENIENCE OUTLETS ~~TO BE~~ 4'0" ABOVE FLOOR.
3. ELECTRIC DOOR OPENERS ~~TO BE~~ 50" ABOVE FLOOR.
4. WALL HEATERS ~~TO BE~~ MOUNTED 80" ABOVE FLOOR.
5. ALL THERMOSTATS ~~TO BE~~ LOCATED 5'6" ABOVE FLOOR.
6. ADDITIONAL ELEC. PANEL FOR DEEP HEAT UNITS SEE SHEET 9 OF 9.

ELECTRICAL LAYOUT
1/4" = 1'0"



MOTOR CONTROL AND 4 STEP SWITCH TO ALLOW LOAD IN STAGES NO MORE THAN 6 KV/15 SEC.

ELECTRICAL DETAIL



NOTES:
1. ALL PIPING IS SCHEMATIC ONLY; CONTRACTOR DID CO-ORDINATE HIS WORK WITH OTHER TRADES.
2. ALL WATER SUPPLY PIPING IS CAPABLE OF BEING DRAINED, (WITHIN BUILDING.)
3. ALL WATER SUPPLY PIPING IS INSULATED ABOVE FLOOR ELEVATION - JOINTS ~~TO BE~~ PAINTED.
4. ⋈ - INDICATES GATE VALVE
N - INDICATES CHECK VALVE

PLUMBING LAYOUT
1/2" = 1'0"

PANEL A
CIRCUIT BREAKER TYPE TQL, 1 MODULE, 120/240V 1Φ, 3W., 100 AMP MAIN WITH MAIN DISCONNECT

CIRCUIT NO.	DESCRIPTION	AMP	POLE
A_1	GARAGE LIGHTING, CONVENIENCE OUTLETS	20	1
A_2	GARAGE DOOR OPENER, FAN, CONVENIENCE OUTLETS	20	1
A_3	GARAGE DOOR OPENER, LIGHTING, CONVENIENCE OUTLETS	15	1
A_4	GARAGE DOOR OPENER, MISC.	15	1
A_5	5KV ELECTRIC HEATER BAY #1	25	2
A_6	5KV ELECTRIC HEATER BAY #2	25	2
A_7	5KV ELECTRIC HEATER BAY #3	25	2

PANEL B — OFF PEAK LOAD
CIRCUIT BREAKER TYPE TQL, 1 MODULE, 240 V 1Φ, 3W 200 AMP MAIN, WITH MAIN DISCONNECT

CIRCUIT NO.	DESCRIPTION	AMP	POLE
B_1	40 GAL. ELECTRIC HOT WATER		2
B_2	2 DEEP HEAT MATS	25	2
B_3	2 DEEP HEAT MATS	25	2
B_4	2 DEEP HEAT MATS	25	2
B_5	1 DEEP HEAT MAT	25	2

LEGEND

- DUPLEX CONVENIENCE OUTLET 120V.
- = S SWITCH
- = S_3 THREE WAY SWITCH
- INDICATES ELECTRIC DOOR OPENERS (120V AC.; 1/2 H.P.) WITH THREE WAY OPERATING SWITCH (5 IN ALL)
- SMITHCRAFT "TECH" 30. TEC. 2-405
- HOLOPHANE 400 WALL PACKETTE
- LOUVERED EXHAUST FAN
- EH 5KV ELECTRIC WALL HEATER 208V, 1Ø, MODEL AUH-520 AITKIN PRODUCTS OR APPROVED EQUAL
- SMITHCRAFT DOMINAIRE DMA 40 2-40 RS
- APPLETON VC 100W V-SI W GROUND (RED LENSE)
- HOLOPHANE WALLPACK 300 W INCOND.
- MOTOR OPERATED SHUTTER BY AIROLITE OR APPROVED EQUAL.

AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
By _____ Project Engineer
Date July 1, 1977

ADAP PROJECT NO. 5-50-0015-05

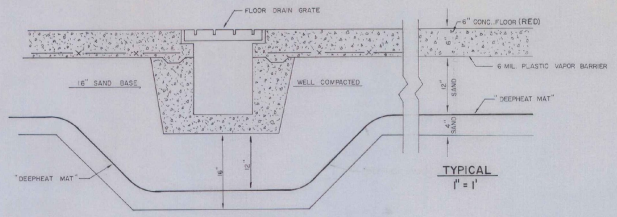
RUTLAND STATE AIRPORT CLARENDON, VERMONT

FIRE / CRASH - RESCUE BUILDING

PLUMBING / ELECTRICAL LAYOUT

VERMONT AGENCY OF TRANSPORTATION
DEPARTMENT OF AERONAUTICS
V.O. LEACH JR. — AIRPORT ENGINEER

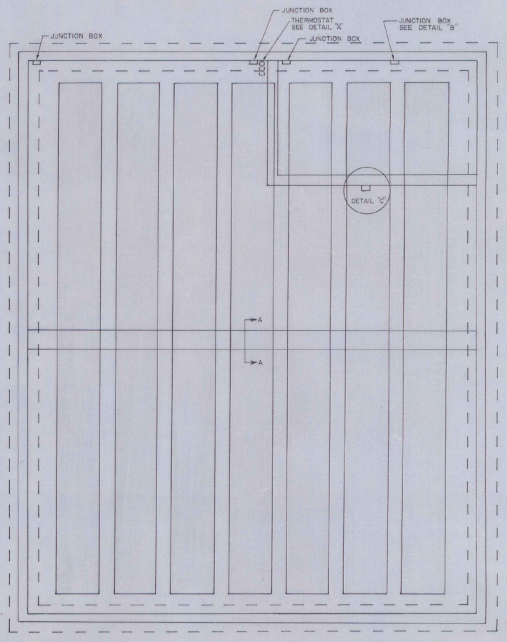
DRAWING 8 OF 9 | DRAWN BY G.W.D.



A — A

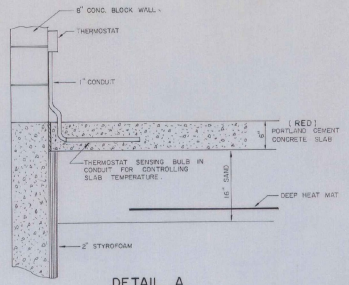
CENTER DRAINAGE TRENCH

1" = 1'

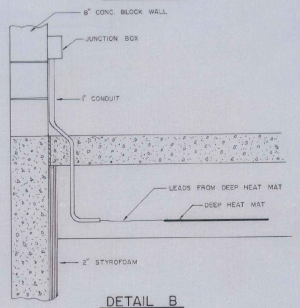


"DEEPHEAT MAT" LAYOUT

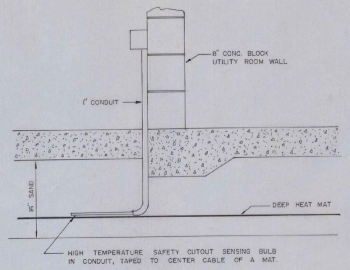
1/4" = 1'



DETAIL A



DETAIL B



DETAIL C

NOTES:

1. SEE PAGE 3/9 FOR SLAB & FOUNDATION DETAIL.
2. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR WIRING DETAILS AND MAT LAYOUTS.
3. CONCRETE DETAILS ON SHEET 4 OF 9.

AS BUILT PLANS

I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.

By [signature] Project Engineer

Date July 1977

ADAP PROJECT NO. 5-50-0015-05

RUTLAND STATE AIRPORT
CLARENDON, VERMONT

FIRE / CRASH - RESCUE BUILDING

HEATING PLAN

VERMONT AGENCY OF TRANSPORTATION
DEPARTMENT OF AERONAUTICS
V.O. LEACH JR. — AIRPORT ENGINEER

DRAWING 9 OF 9 | DRAWN BY G.W.D.