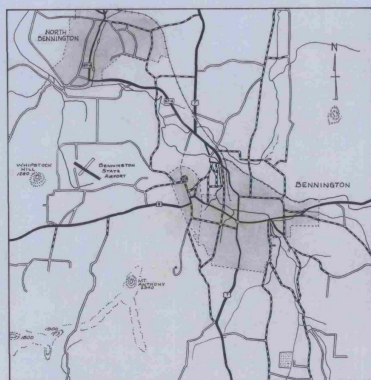




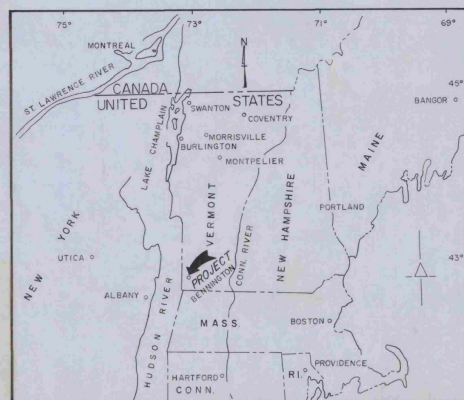
LOCATION MAP

BENNINGTON STATE AIRPORT BENNINGTON, VERMONT

LIGHTING SYSTEM

(INCLUDES RUNWAY LIGHTS, VASI-II, REILS, LIGHTED WIND CONE,
HAZARD BEACONS, AND A 36" AIRPORT ROTATING BEACON)

TAXIWAY CONSTRUCTION



VICINITY MAP

INDEX OF SHEETS	
PAGE	DESCRIPTION
1	TITLE SHEET
2	RUNWAY LIGHTING AND BEACON LOCATIONS
3	POWER LINE AND BEACON LOCATIONS
4	POWER LINE AND BEACON POLE DETAILS
5	BEACON TOWER AND WIRING DETAILS
6	VASI-2 SYSTEM AND SEGMENTED CIRCLE
7	RUNWAY END IDENTIFIER LIGHTS AND MISCELLANEOUS

ESTIMATED QUANTITIES OF MAJOR ITEMS

ITEM	QUANTITY	FINAL QUANTITIES
SCHEDULE "A" LIGHTING SYSTEM		
2-1 RUNWAY LIGHTS (STAKE MOUNTED)	30 EACH	30 EACH
2-2 RUNWAY LIGHTS (BASE MOUNTED)	4 EACH	4 EACH
2-3 THRESHOLD LIGHTS	12 EACH	12 EACH
2-4 TAXIWAY LIGHTS	16 EACH	16 EACH
2-5 CABLE TRENCH	8,040 L.F.	8355 L.F.
2-6 1/2" 8, SKY L-824-"C"	12,000 L.F.	12460 L.F.
2-7 1/2" 8, SKY L-824-"C"	12,000 L.F.	12918 L.F.
2-8 3/8" BARE COUNTERPOISE	8,820 L.F.	9201 L.F.
2-9 VAULT EQUIPMENT	LS	LUMP SUM
2-10 LIGHTED EIGHT FOOT WIND CONE	1 EACH	1 EACH
2-11 SEGMENTED CIRCLE	L.SUM	L.SUM
2-12 REILS	L.SUM	L.SUM
2-13 VASI-2	L.SUM	L.SUM
2-14 36" AIRPORT ROTATING BEACON	L.SUM	L.SUM
2-15 HAZARD BEACON II	L.SUM	L.SUM
2-16 HAZARD BEACON III	L.SUM	L.SUM

AS BUILT PLANS
I hereby certify that all the construction
required by this set of drawings has been
accomplished as indicated herein.
By *Charles W. D'Amico* Project Engineer
Date *August 12, 1978*

U.S. DEPARTMENT OF TRANSPORTATION

FEDERAL AVIATION ADMINISTRATION

APPROVED: _____ DATE _____
CHIEF, AIRPORTS BRANCH
AIRPORTS DIVISION

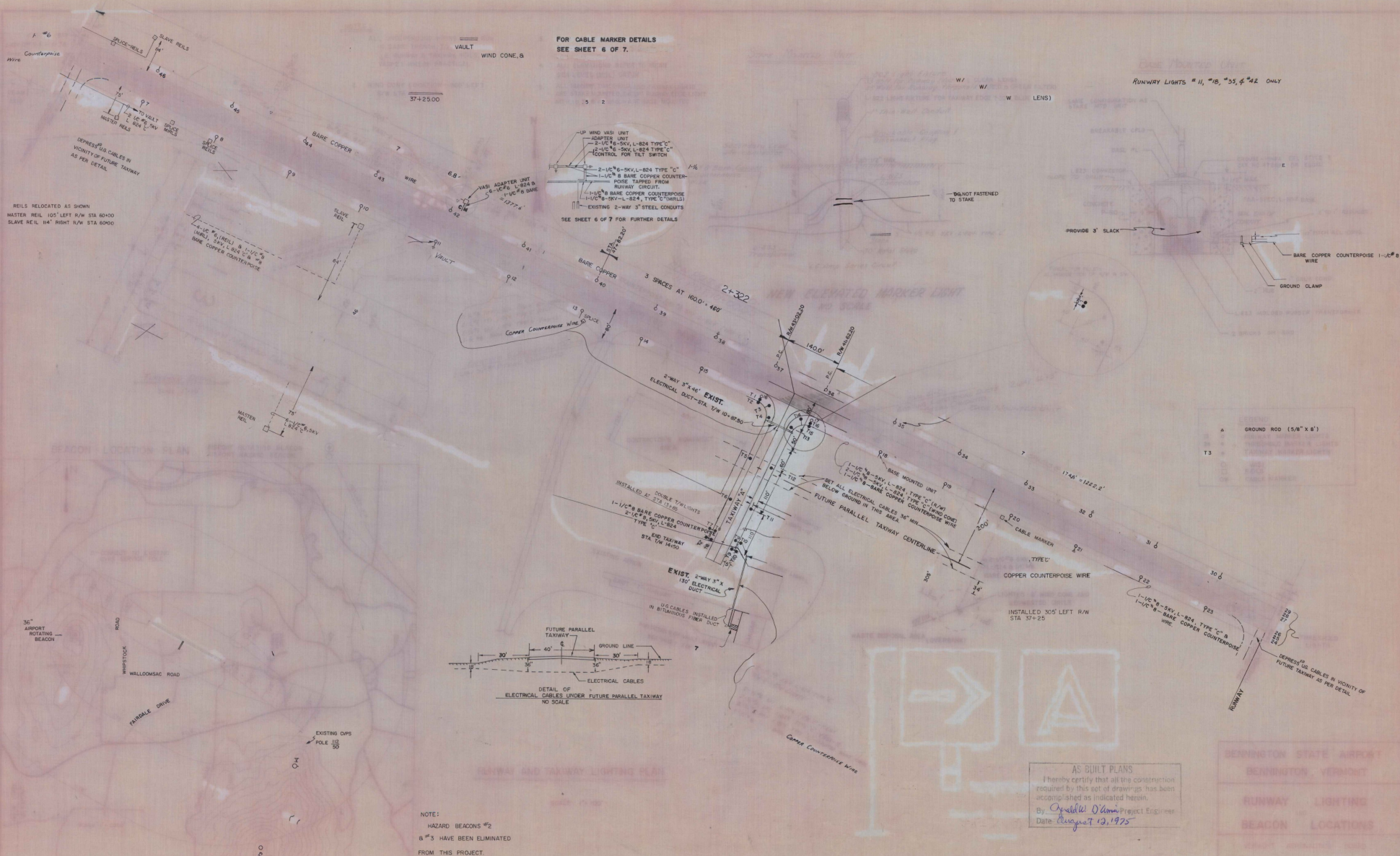
BENNINGTON STATE AIRPORT BENNINGTON, VERMONT

VERMONT AERONAUTICS BOARD
APPROVED: _____ DATE _____
COMMISSIONER
APPROVED: _____ DATE _____
AIRPORT ENGR.

PREPARED BY VERMONT AERONAUTICS BOARD MONTPELIER, VERMONT

VAIL O. LEACH — ENGR.
DATE: SEPT., 1973





AS BUILT PLANS
 I hereby certify that all the construction
 required by this set of drawings has been
 accomplished as indicated herein.
 By *Charles D. Davis* Project Engineer
 Date *August 12, 1975*

BENNINGTON STATE AIRPORT
 BENNINGTON, VERMONT
 RUNWAY LIGHTING
 BEACON LOCATIONS

NOTE:
 HAZARD BEACONS #2
 & #3 HAVE BEEN ELIMINATED
 FROM THIS PROJECT.

TRANSFORMERS*
 INSTALLED 10KVA TRANSFORMERS 120/240 V
 TO 2300V ON NEW POLE ON TH 152 AND POLE V
 AS PER C.C.O. I.

WHIPSTOCK HILL
 USE-7500/12,470Y TO 120/240 V W/TAPS (2.5%) 5KVA, 60HZ, 10"
 GENERAL ELECTRIC CATALOG #9501AC2505
 OR APPROVED EQUIVALENT

MOUNT ANTHONY

BEACON IX - USE-450/240 TO 120/240V, 10, 60HZ, 5KVA
 GE CATALOG #912B1004
 OR APPROVED EQUIVALENT

BEACON X - USE-480/240 TO 80/240V, 10, 60HZ, 5KVA
 GE CATALOG #912B1004
 OR APPROVED EQUIVALENT

HAZARD BEACON IX

BEACON IX - BEACON POLE W/TRANSFORMER*

TOP OF MOUNTAIN

NOTES

1. ELECTRIC METER SUPPLIED BY CVPS, HOOKUP BY CONTRACTOR
2. (H) INDICATES HENDRIX EXTENSION
3. ALL GUYS SHOWN ARE NEW AND SHOULD BE INSTALLED SPECIFICALLY FOR THE NEW TRIPLEX. EXISTING GUYS NOT SHOWN. (NEW GUYS D/L = 22/125) SEE SHEET 4 OF 7.
4. ALL ELEVATIONS REFER TO MEAN SEA LEVEL DATUM

SEE SHEET 4 OF 7 FOR BEACON DETAILS

NEW PROPOSED #16 480V TRIPLEX FROM CVPS POLE 112 TO HAZARD BEACON IX

MOUNT ANTHONY POWER LINE & BEACONS IX & X

NOTE: TREE WIRE POLY REFERS TO A HIGH DENSITY POLYETHYLENE COVERING

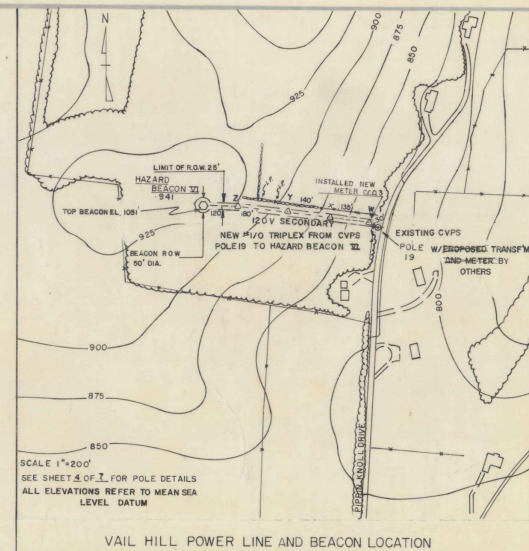
WHIPSTOCK HILL POWER LINE AND BEACON LOCATION

SCALE 1"=200'
 2300V PRIMARY ELECTRIC SYSTEM
 WIRE SIZES
 PRIMARY #10 6201 POLY
 NEUTRAL #2 6201 BARE

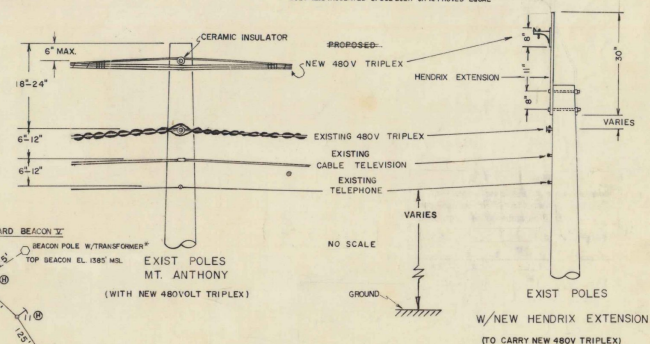
SEE SHEET 4 OF 7 FOR POLE DETAILS
 ALL ELEVATIONS REFER TO MEAN SEA LEVEL DATUM
 2300 V 6201 POLY (TREE WIRE) TO CARRY 7500V PRIMARY FROM CVPS POLE 104 TO BEACON. NEW POLE TO POLE 104

AS BUILT PLANS
 I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
 By *David W. Dillman* Project Engineer
 Date *August 12, 1975*

*10 TRIPLEX TO BE INSTALLED ON EXISTING POLES ABOVE EXISTING #10 TRIPLEX. HENDRIX EXTENSION OR EQUAL ADDED AS NOTED TO INSURE ADEQUATE POWER LINE CLEARANCE.



NOTE: CERAMIC INSULATOR ON TANGENT USED AN INSULATED SPOOL BOLT GREYBAR CAT. NO. 225, AT ANGLES USED CURVED BACKED CLEVIS GREYBAR CAT. NO. 0327 AND INSULATED SPOOL BOLT OR APPROVED EQUAL

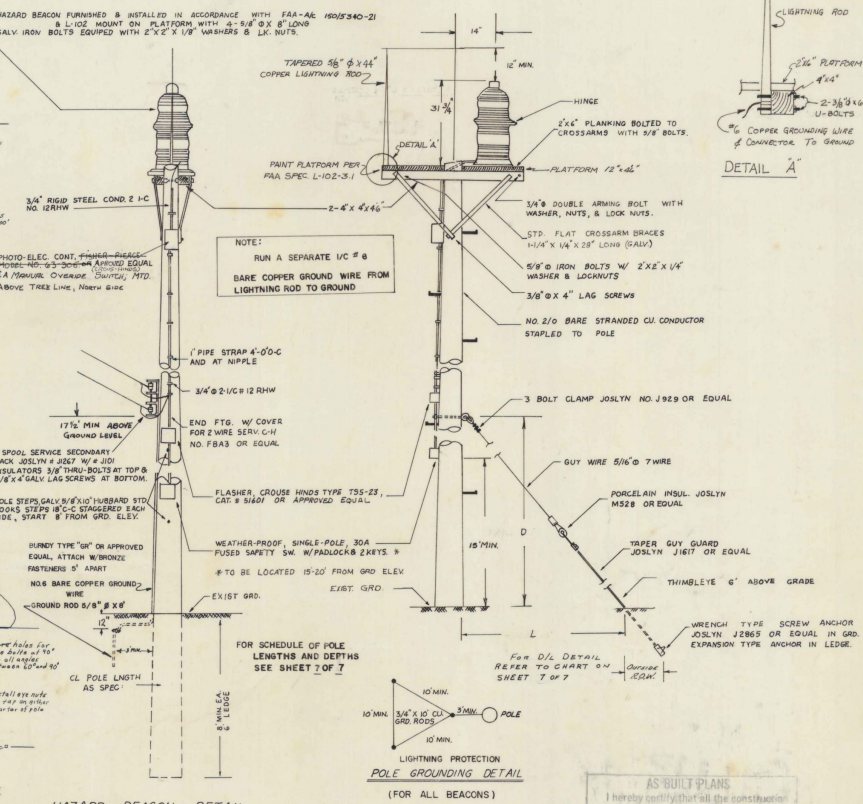
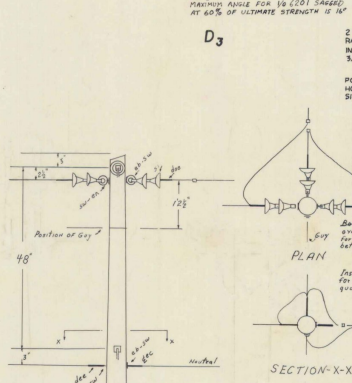
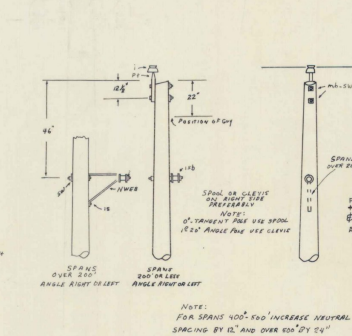
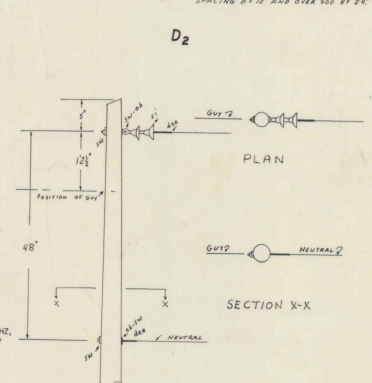
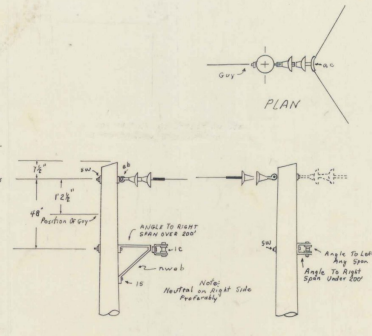
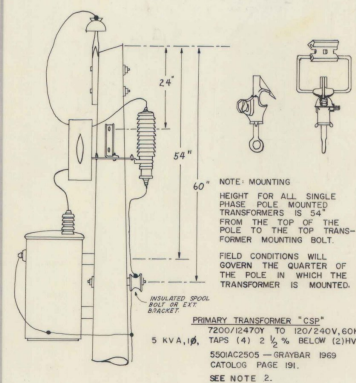
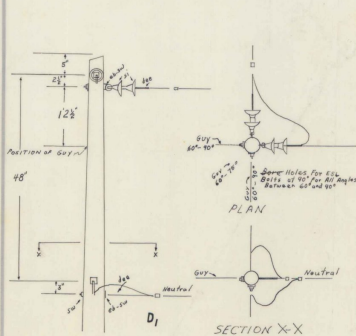


LEGEND
 Δ NEW POWER POLES
 ○ EXISTING POWER POLES
 --- STONE WALL I.P. IRON PIN
 --- FENCE
 --- EXISTING TREE OR TREE LINE

BENNINGTON STATE AIRPORT
 BENNINGTON, VERMONT

POWER LINE AND BEACON LOCATIONS

VERMONT AERONAUTICS BOARD
 VAIL O. LEACH AIRPORT ENGINEER

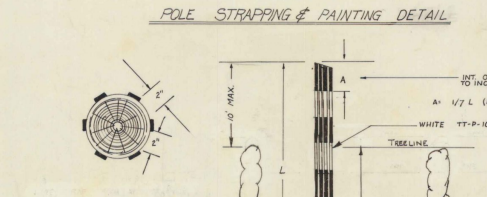


LEGEND

S1	Suspension insulator 4 1/2"
Eb	Eye bolt 3/8"
SW	Square washer 2 1/2" x 2 1/2"
d&c	Buffed dead end clamp
En	Eye nut
I	Insulator pin type
Pt	Pole top pin 20"
mb	Machine bolt 5/8"
ISB	Insulated spool bolt or clevis (see note)
NWB	Neutral wire extension bracket (span over 200')
LS	Lag screw 3/4" x 4" (see note)
GC	Angle clevis
IC	Insulated clevis

As required use double coil spring washers.

- NOTES**
- FOR SCHEDULE OF GUY DETAILS SEE SHEET 7 OF 7.
 - PRIMARY TRANSFORMERS ON WHIPSTOCK HILL POLES 1&P
 - SECONDARY TRANSFORMERS ON MOUNT ANTHONY POLES FOR HAZARD BEACONS IX, & X, SEE NOTES ON SHEET 3 OF 7
 - ALL OTHER TRANSFORMERS, I.E. ON EXISTING CVPs
 - POLE SPECIFICATIONS CLASS 5 AND SMALLER (TO 45') USED SOUTHERN YELLOW PINE AVAILABLE FROM KOPPERS, INC. OR APPROVED-EQUAL CLASS 4 AND LARGER (OVER 45') USED WESTERN RED CEDAR AVAILABLE FROM BELL LUMBER AND POLE OR RT HALEY, INC. OR APPROVED-EQUAL. (AS PER LOCAL PRACTICE)



AS BUILT PLANS

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

By David D. Dimes Project Engineer
Date 10/24/75

BENNINGTON STATE AIRPORT
BENNINGTON, VERMONT

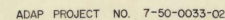
POWER LINE AND
BEACON POLE DETAILS

VERMONT AERONAUTICS BOARD

WILL O. LEACH AIRPORT ENGINEER

ADAP PROJECT NO. 7-50-0033-02

SHEET 4 OF 7



AS BUILT PLANS
I hereby certify that all the construction
required by this set of drawings has been
accomplished as indicated herein.
By W. L. Dumas Project Engineer
Date August 12, 1975

NEW POWER POLE INFORMATION

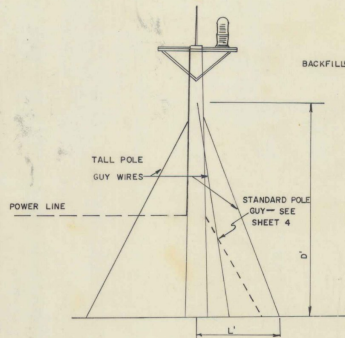
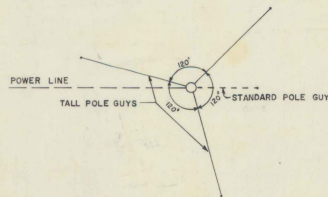
POLE	HEIGHT	CLASS	DEPTH IN EARTH	DEPTH IN LEDGE	GUY DETAIL*	REMARKS
BEACON I						
WHIPSTOCK HILL						
A	35'	6	6'	4'		
B	35'	6	6'	4'	D-1	D/L = 27/125*
C	35'	6	6'	4'		
D	35'	6	6'	4'		
E	40'	5	6'	4'		
F	40'	5	6'	4'		
G	40'	5	6'	4'	D-5	D/L = 27/125*
BEACON VI						
VAIL HILL						
I 9	30'	6	5.5'	4'	D-2	W/TRANSFORMER, CVPS POLE
W	30'	6	5.5'	4'		
X	30'	6	5.5'	4'		
Y	30'	6	5.5'	4'		
Z	30'	6	5.5'	4'	D-2	DL = 22/125*
BEACON POLES						
I	62'					SEE SHEET 5/9
IV						SEE SHEET 3/9
V	100'	I	11'	9'	TPD *** D-5	W/TRANSFORMER* DL=22/125* D/L=50/25
VI	125'	I	12'	10'	TPD *** D-4	D/L = 22/125* D/L=50/25

* SEE SHEETS 3 OF 7 & 4 OF 7 FOR POLE DETAILS

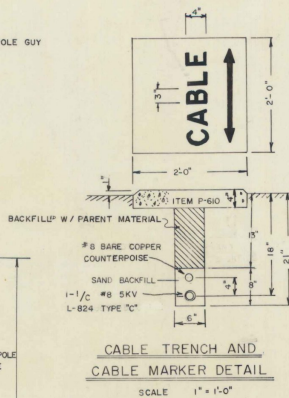
** SEE SHEET 5 OF 7 FOR TOWER DETAILS

*** SEE TALL POLE DETAILS ON THIS SHEET

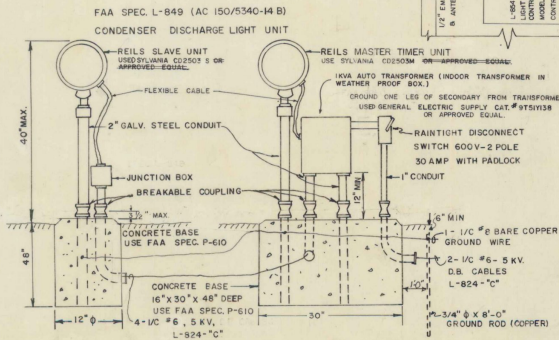
NOTE: TRANSFORMERS ARE NOT A SEPARATE PAY ITEM.



TALL POLE GUY DETAILS
NO SCALE



CABLE TRENCH AND
CABLE MARKER DETAIL
SCALE 1" = 1'-0"



RUNWAY END IDENTIFIER LIGHTS

NO SCALE

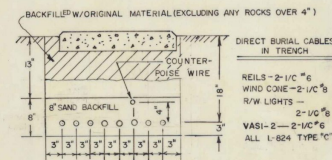
NOTES

LETTERING TO BE 1/2" STROKE AND 1/4" DEEP FOR ALL MARKERS
HAND LETTERING NOT ALLOWED ON CABLE MARKERS

TRENCH WIDTH	FROM	TO	DISTANCE
27"	VAULT	T 13	230'
THROUGH CONDUIT	T 13	T 4	
9"	T 4	T 8	330'
18"	T 4	R 11	1000'
12"	R 11	R 6	910'
18"	MASTER REELS	SLAVE REELS	230'
6"	R 1	DOWNWIND VASI	500'
24"	DOWNWIND VASI	UPWIND VASI	500'
6"	UPWIND VASI	R 20	3070'
9"	R 20	WIND CONE	250'
12"	R 20	T 13	580'

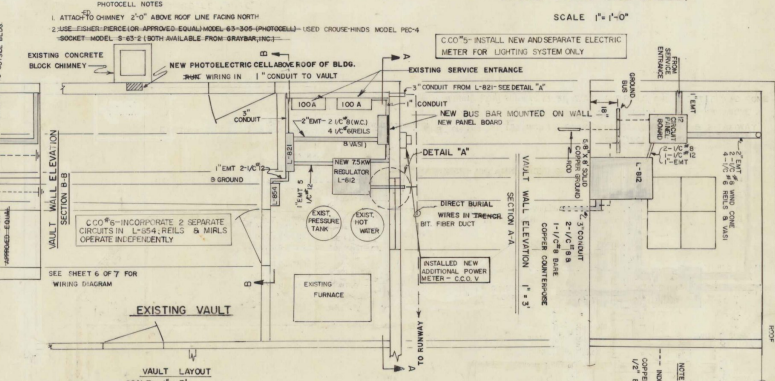
NOTES

DISTANCES ARE APPROXIMATE, FINAL QUANTITIES WILL BE DETERMINED IN FIELD
INDIVIDUAL SPUR TRENCHES FOR R/W LIGHTS NOT INCLUDED
REFER TO PAGE 2/7 FOR TRENCH LOCATIONS



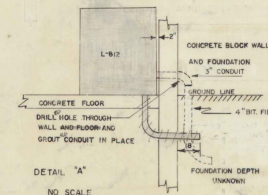
TYPICAL TRENCH DETAIL
(MORE THAN ONE CABLE)

SCALE 1" = 1'-0"



EXISTING VAULT

VAULT LAYOUT
SCALE 1" = 3'



DETAIL "A"
NO SCALE

NOTE:
ALL OPEN CONDUIT ENDS
TO BE DUCT SEALED

AS BUILT PLANS
I hereby certify that all the construction shown on these drawings has been accomplished as indicated herein.
By *Donald P. Leach* Project Engineer
Date *Aug 2 1976*

BENNINGTON STATE AIRPORT
BENNINGTON, VERMONT
RUNWAY END IDENTIFIER LIGHTS
AND MISCELLANEOUS DETAILS

VERMONT AERONAUTICS BOARD
WILL O. LEACH AIRPORT ENGINEER