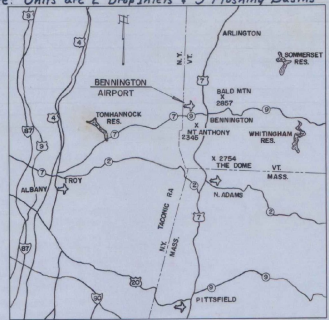


ESTIMATED QUANTITIES

ITEM NO.	ITEM	QUANTITY
1	CLEARING	6 acres
2	CLEARING OF ISOLATED TREES (0'-30')	101 ea. 14 ea.
3	CLEARING OF ISOLATED TREE (30'-60')	14 ea. 12 ea.
4	CLEARING AND GRUBBING	1 acre
5	COMMON EXCAVATION	49,000 C.Y.
6	SOLID ROCK EXCAVATION	1,000 C.Y. 1,154 cy
7	BORROW EXCAVATION	38,000 C.Y. 51,880 cy
8	SUBBASE COURSE	4,925 C.Y. 4,925 cy
9	AGGREGATE BASE COURSE	2,600 C.Y. 2,500 cy
10	AGGREGATE BIT. SURFACE COURSE	2,550 tons 2,464.3 tons
11	BITUMINOUS PRIME COAT	14,000 gals. 11,622 gals
12	RUNWAY AND TAXIWAY PAINTING	1 L.S.
13	FENCE, CLASS B	3,000 lf.
14	DRIVEWAY GATES	2 ea.
15	18" BIT COATED CULVERT PIPE	700 lf.
16	8" PERF. CORR. UNDERDRAIN PIPE	1,650 lf.
17	6" PERF. CORR. UNDERDRAIN PIPE	5,650 lf. 5,400 lf.
18	POROUS BACKFILL NO. 1	4,150 C.Y.
19	UNITS OF CORRUGATED METAL STRUCT.	11 ea.
20	UNCLASSIFIED EXCAVATION FOR STRUCT.	10 C.Y.
21	STRUCTURE CONCRETE	5 C.Y.
22	REINFORCED STEEL	100 lb.
23	PREPARING GROUND SURFACE	26 acres
24	LIMING	26 acres
25	FERTILIZING	26 acres
26	SOWING SEED	26 acres
27	MOWING	78 acres
28	REFERTILIZING	26 acres
29	RESEEDING	12 acres
30	REPAIRING	100 C.Y. 0 acres
31	TOPSOILING	5,250 C.Y. 260 cy
32	MULCHING	26 acres
33	SINGLEWAY UNDERGROUND ELEC. DUCT.	336 lf.
34	RIP-RAP	25 C.Y.
35	DEMOLITION AND DISPOSAL OF BUILDINGS	1 L.S.

\*Note Below\* Units are 2 Drop Inlets & 9 Flushing Basins



LOCATION MAP SCALE IN MILES

PLANS FOR  
CONSTRUCTION OF AIRPORT RUNWAY  
AND  
REMOVAL OF OBSTRUCTIONS  
**BENNINGTON MUNICIPAL AIRPORT**  
BENNINGTON, VERMONT

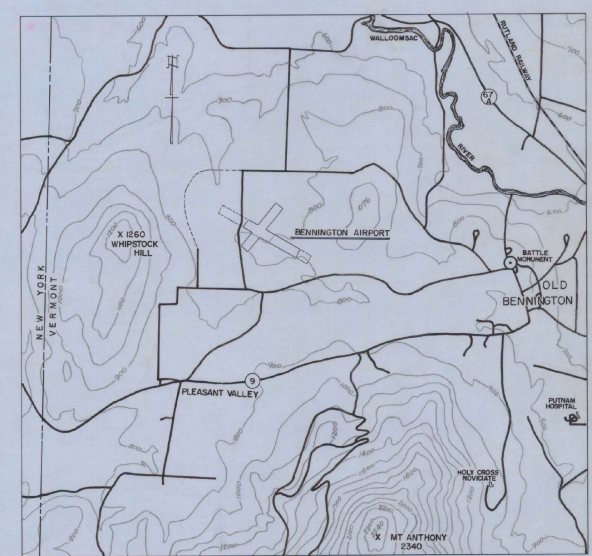
"As Built" Plans

PROJECT NO. 9-43-001-C802

SEPTEMBER-1967

INDEX TO CONTRACT DRAWINGS  
SHEET NO. TITLE

1	TITLE SHEET, INDEX AND SUMMARY OF QUANTITIES
2	AIRPORT PLAN DETAILS
3-5	DRAINAGE AND GRADING PLANS
6	RUNWAY CENTERLINE PROFILE
7	SOIL INFORMATION AND RUNWAY MARKING DETAILS
8-9	TYPICAL SECTIONS, STANDARDS AND DETAIL



VICINITY MAP SCALE IN FEET

These plans represent the as built facility to the best of our knowledge. August 11, 1967

FEDERAL AVIATION ADMIN.  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
\_\_\_\_\_  
CHIEF AIRPORTS BRANCH

VERMONT AERONAUTICS BOARD  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_ TITLE \_\_\_\_\_  
\_\_\_\_\_  
COMMISSIONER  
\_\_\_\_\_  
ENGINEER

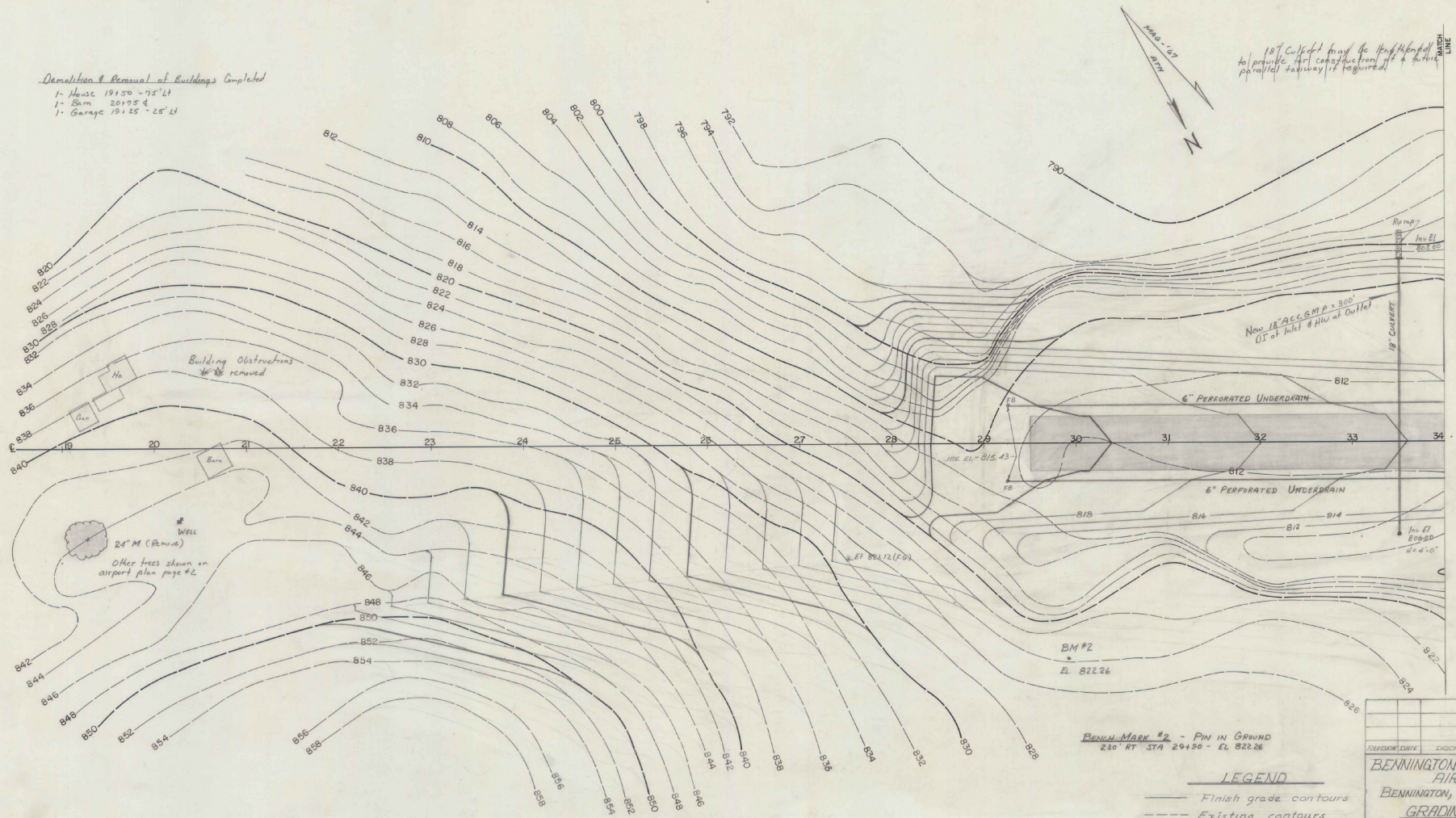
TOWN OF BENNINGTON  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_ AUTHORITY \_\_\_\_\_  
William H. Morse 8/15/67 CHAIRMAN  
AIRPORT COMMISSION  
Louis F. Smith 8/15/67 CHAIRMAN  
BOARD OF SELECTMEN

PREPARED BY  
CADIZ CONSULTANTS, INC.  
CONSULTING ENGINEERS & SURVEYORS  
BENNINGTON, VERMONT

Demolition & Removal of Buildings Completed

- 1- House 191.50 - 75' LT
- 1- Barn 201.95 d
- 1- Garage 191.25 - 25' LT

18" Culvert may be extended to provide for construction of a future parallel runway if required



Building Obstructions removed

WELL  
24" M (Remain)

Other trees shown on airport plan page #2

Now 12" ALUMINUM PIPING 300' DI at Inlet & 110' at Outlet

BM #2  
E. 822.26

BENCHMARK #2 - PIN IN GROUND  
230' RT STA 29+90 - EL 822.26

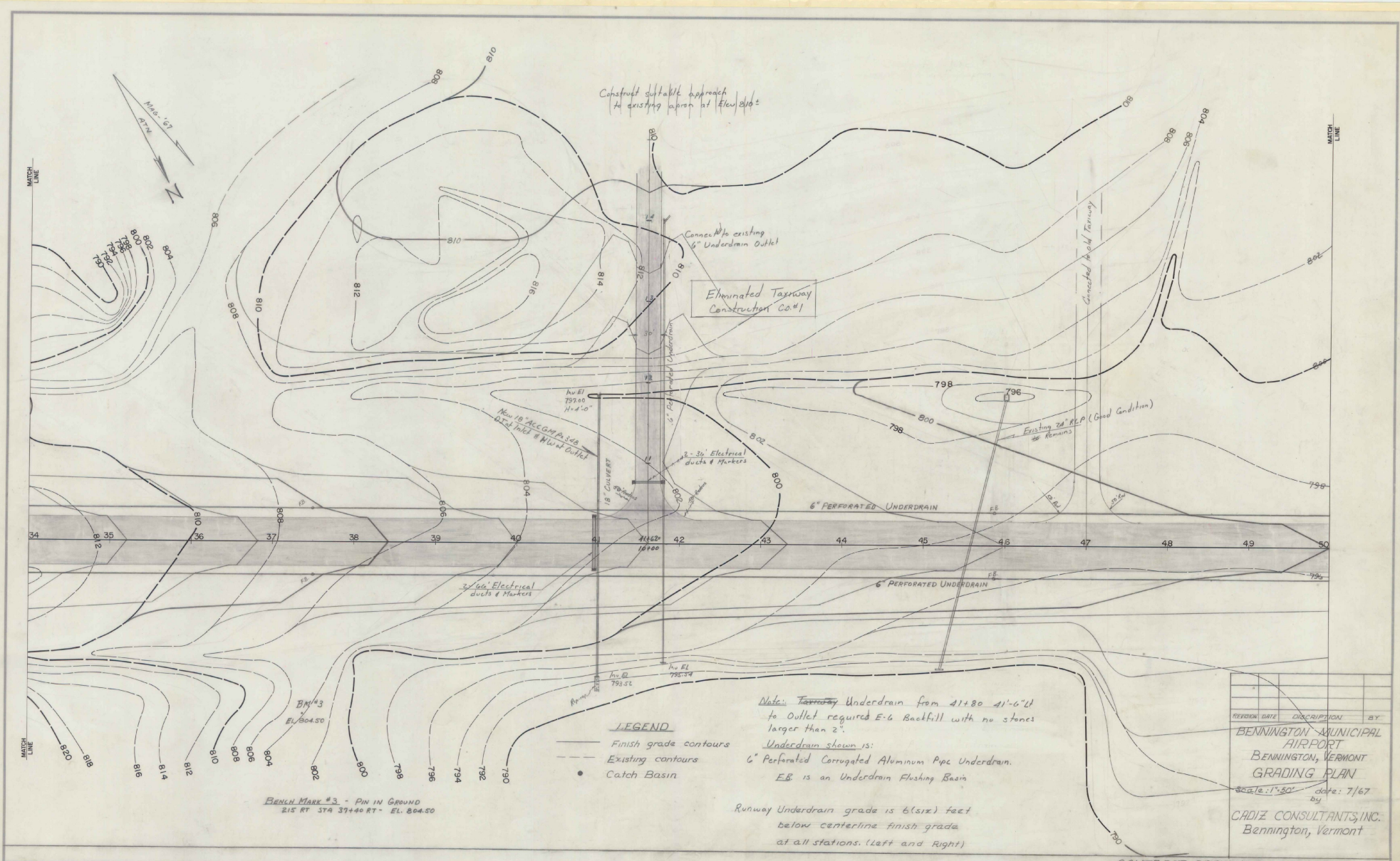
- LEGEND**
- Finish grade contours
  - - - Existing contours
  - ◻ Catch basin
  - Individual tree

Underdrain grade is 6 (six) feet below centerline finish grade at all stations. (Left and Right)

Underdrain shown is 6" Perforated Corrugated Aluminum Pipe Underdrain

F.B. is an Underdrain Flushing Basin

DIVISION	DATE	DESCRIPTION	BY
BENNINGTON MUNICIPAL AIRPORT			
BENNINGTON, VERMONT			
<b>GRADING PLAN</b>			
Scale: 1"=50' date: 7/67			
BY CADIZ CONSULTANTS, INC. Bennington, Vermont			



Construct suitable approach  
to existing apron at Elev 810

Eliminated Taxiway  
Construction Co #1

New 18" ACCORP 18" DIA  
D.I.T. Inlet & Manhole Outlet

2 - 30' Electrical  
ducts & Markers

Existing 24" R.P.P. (Good Condition)  
Remains

2 - 60' Electrical  
ducts & Markers

Note: Taxiway Underdrain from 41+80 41+64  
to Outlet required E-6 Backfill with no stones  
larger than 2".  
Underdrain shown is:  
6" Perforated Corrugated Aluminum Pipe Underdrain.  
E.B. is an Underdrain Flushing Basin

Runway Underdrain grade is 6 (six) feet  
below centerline finish grade  
at all stations. (Left and Right)

**LEGEND**

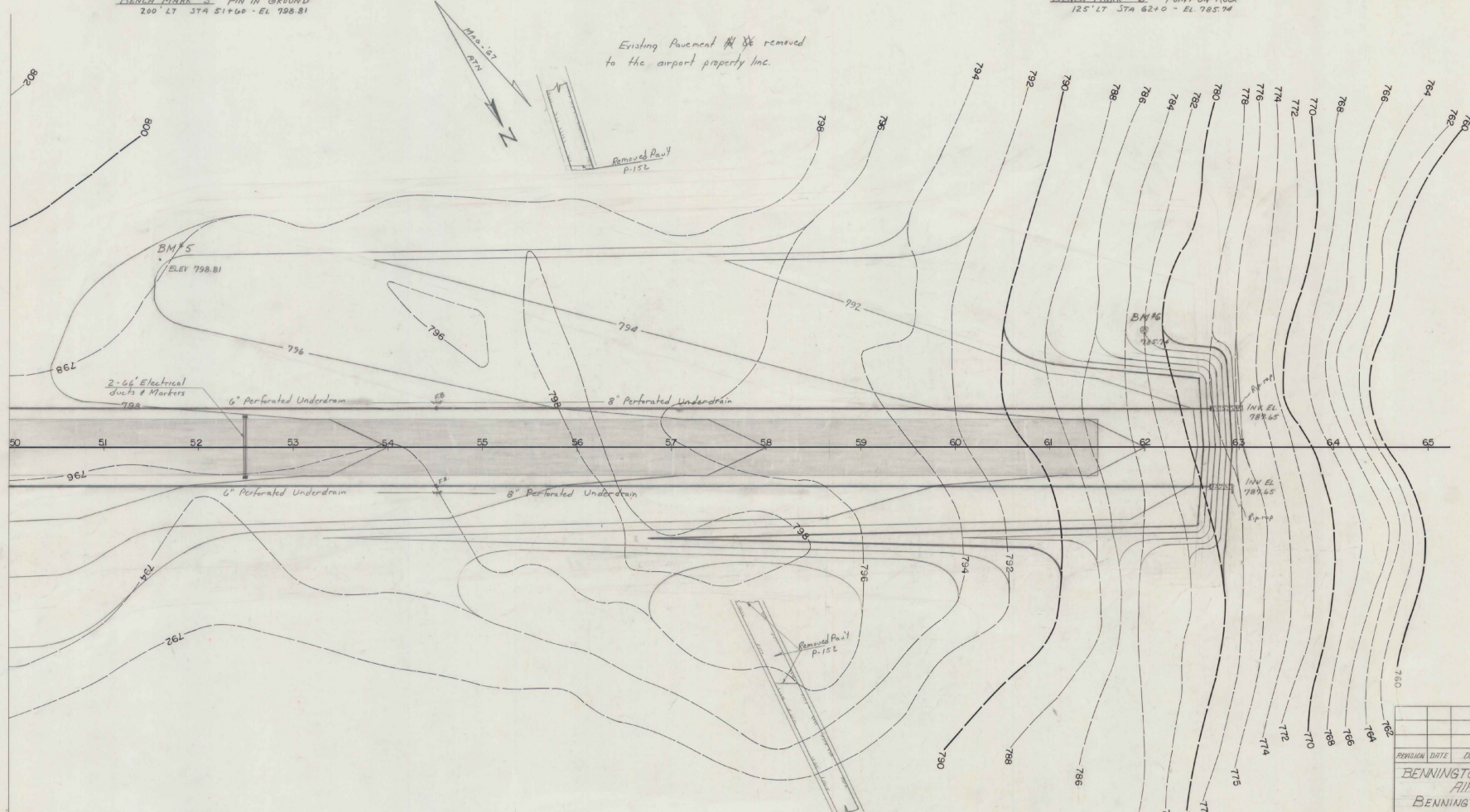
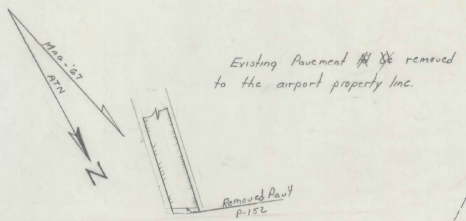
- Finish grade contours
- - - Existing contours
- Catch Basin

BENCH MARK #3 - PIN IN GROUND  
215 RT 374 37+40 RT - EL. 804.50

REVISION DATE	DESCRIPTION	BY
	BENNINGTON MUNICIPAL AIRPORT GRADING PLAN	
	BENNINGTON, VERMONT	
	SCALE: 1"=50'	DATE: 7/67
	CADIZ CONSULTANTS, INC. Bennington, Vermont	

BENCH MARK #5 - PIN IN GROUND  
200' LT STA 51+00 - EL 798.81

BENCH MARK #6 - POINT ON ROCK  
125' LT STA 62+00 - EL 785.74



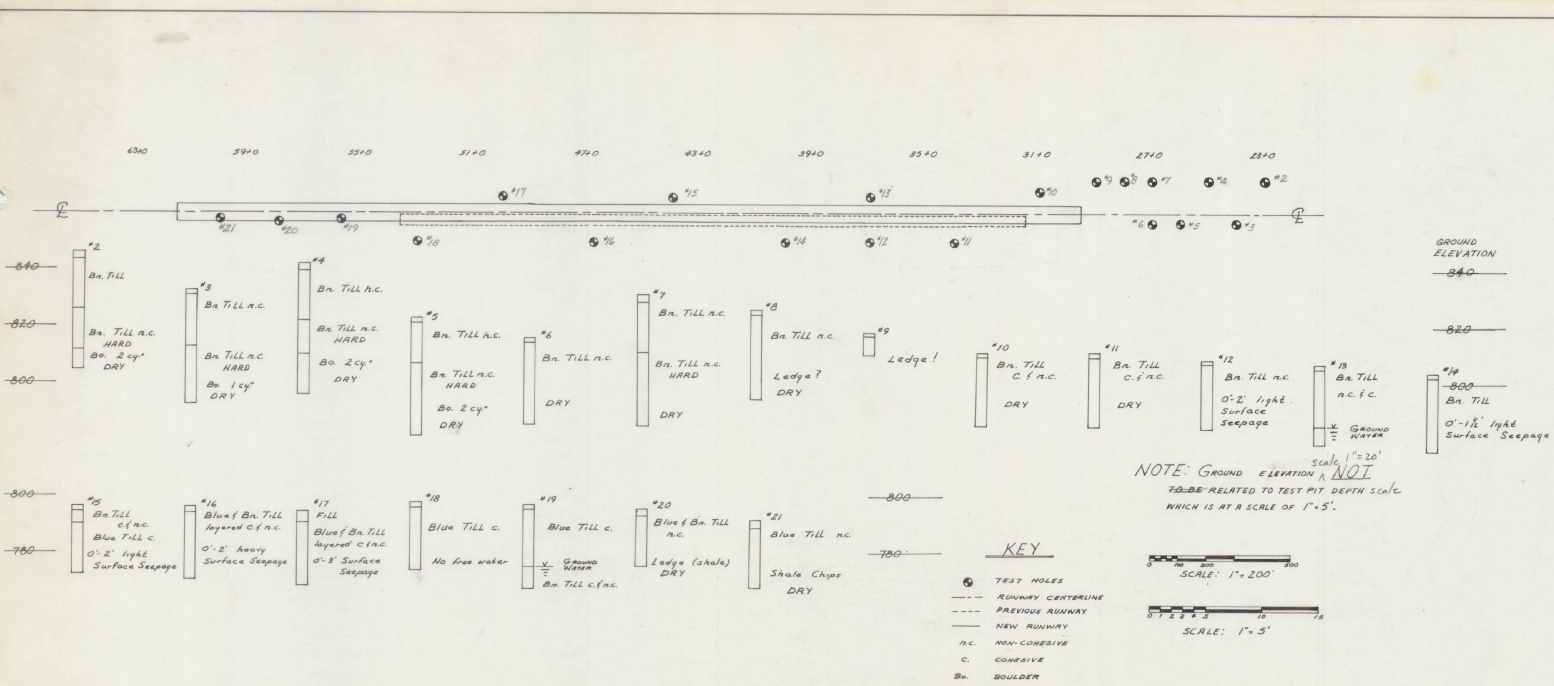
Underdrain shown is  
6" & 8" Perforated Corrugated Aluminum  
Pip Underdrain  
E.B. is an Underdrain Flushing Basin

Existing Pavement ~~to~~ removed  
to the airport property line.  
Underdrain grade is 6 (5/8) feet  
below centerline finish grade  
at all stations. (Left and Right)

**LEGEND**  
 - - - - - Finish grade contours  
 - - - - - Existing contours  
 • Catch basin

REVISION DATE	DISCUSSION	BY

BENNINGTON MUNICIPAL AIRPORT  
 BENNINGTON, VERMONT  
**GRADING PLAN**  
 scale: 1"=50' date: 7/67  
 by  
 CADIZ CONSULTANTS, INC.  
 Bennington, Vermont



GRADATION TESTS

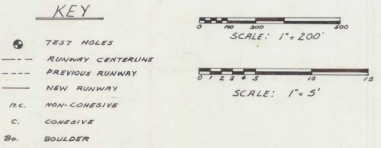
CHARACTERISTIC	PIT NUMBER				
	5	7	8	16	18
PROSPECTIVE USE	B	B	B	B	B
PROBABLE QUANTITY REPRESENTED (cu yd)	20000	20000	20000	20000	20000
DEPTH REPRESENTED (feet)	1'-8"	1'-10"	1'-8"	1'-3"	1'-3"
LIQUID LIMIT	26	32	28	27	25
PLASTIC LIMIT	19	19	19	14	28
PLASTICITY INDEX	7	13	9	13	2

SIEVE ANALYSIS	PERCENT PASSING				
	1 1/2"	1"	3/4"	3/8"	3/16"
1 1/2"					100
1"			100	100	79.3
3/4"		100	100	87.0	78.3
3/8"		92.3	90.7	82.7	59.3
3/16"	96.0	86.0	78.4	57.6	8.94
#10	85.3	79.7	72.7	43.3	8.40
#40	75.0	67.3	63.3	29.7	7.60
#100	68.7	59.7	56.0	21.7	6.80
#200	62.7	55.7	53.7	18.0	6.40
TEXTURAL CLASSIFICATION	E-6	E-7	E-6	E-5	E-6

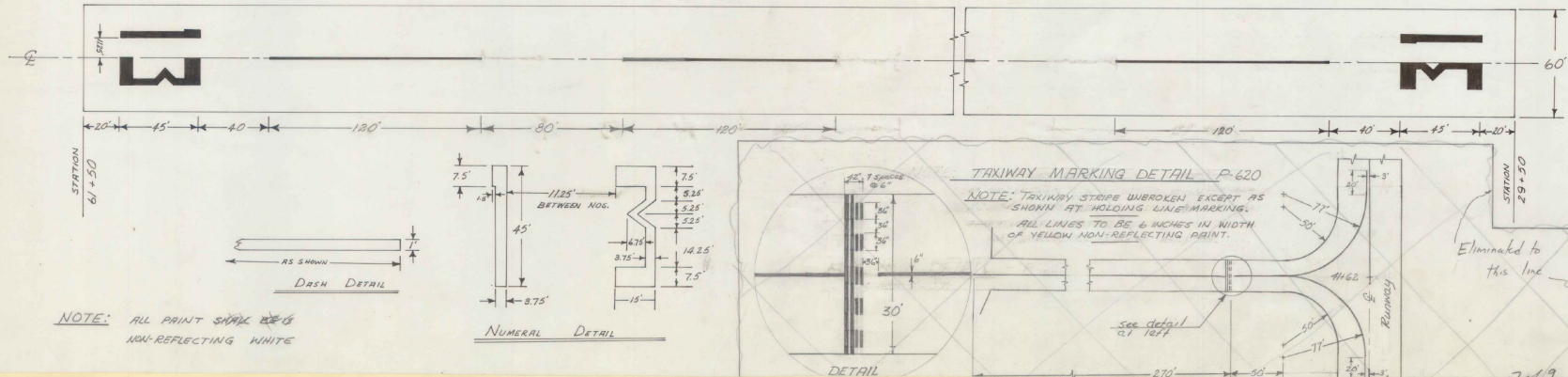
Symbol: B = BORROW  
S.G. = SUBGRADE

NOTE: GROUND ELEVATION IS NOT RELATED TO TEST PIT DEPTH SCALE WHICH IS AT A SCALE OF 1"=5'.



NOTE: THE GEOLOGY OF THE AIRPORT AREA IS A GLACIAL TILL OVER LIMESTONE AND SHALE BEDROCK. THE TILL IS GENERALLY AN E-6 SOIL.

RUNWAY MARKING DETAIL P-620



NOTE: DASHED LINE EXTENDS THE FULL CENTERLINE OF THE RUNWAY, WITH THE DASHES BEING 120' AND THE SPACES 80', EXCEPT THE 7<sup>TH</sup> AND 9<sup>TH</sup> DASH FROM EITHER END SHALL BE 155'.

REVISION	DATE	DESCRIPTION	BY

BENNINGTON MUNICIPAL AIRPORT  
Bennington, Vermont

TEST PITS AND SOIL TESTS  
RUNWAY MARKING DETAILS

CADIZ CONSULTANTS, Inc.  
BENNINGTON, VERMONT

SCALE: as shown DATE: 3/67





ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
1	Sub-base of Gravel	6450 CY
2	Gravel Base Course	1965 CY
3	Tack Coat Type I B	14,700 GAL.
4	Bituminous Concrete Pavement	10 TONS
5	12" A.C.C.G.M.P.	96 LF
6	15" A.C.C.G.M.P.	18 LF
7	18" A.C.C.G.M.P.	254 LF
8	24" A.C.C.G.M.P.	80 LF
9	ACCGMP Arch 3' x 50"	40 LF
10	ACCGMP Arch 40" x 65"	50 LF
11	6" Perf. Corr. Alum. Alloy Pipe (Estimated)	300 LF
12	Drop Inlet, Type III	1 EA.
13	Wood Guide Post	16 EA.

INDEX TO DRAWINGS

SHEET NO.	TITLE
1	TITLE SHEET, INDEX AND SUMMARY OF QUANTITIES
2-6	PLAN AND PROFILE
7-12	CROSS-SECTIONS
13	TYPICAL SECTIONS AND DETAILS

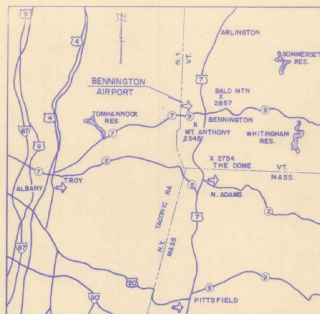
PLANS FOR CONSTRUCTION  
OF THE  
WHIPSTOCK CONNECTION

BENNINGTON, VERMONT

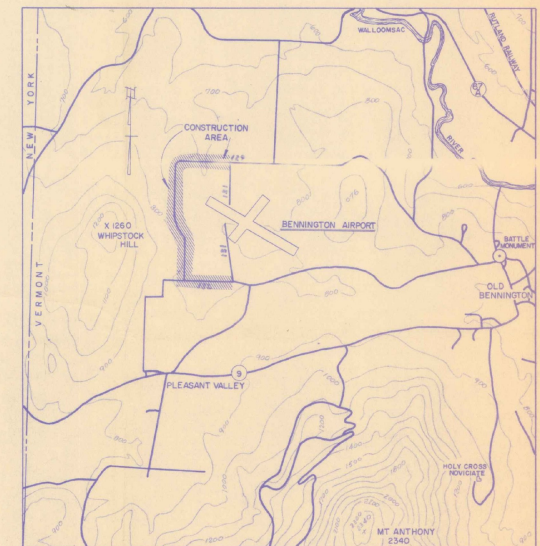
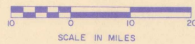
"As Built" Plans  
as of February 1970

*The Attached plans are not "As Built"  
but construction plans. "As Built"  
plans for this Force Account work  
were waived by Bos-600 on  
16 March 1970*  
MB/CRAM

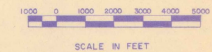
PROJECT NO. FORCE ACCOUNT (9-43-001-C802)



LOCATION MAP



VICINITY MAP



FEBRUARY, 1968

*These plans were prepared for the Town of Bennington at the request of the VAB and the FAA and built under the supervision of the Towns Road Commissioner. Daniel J. Cadiz Area 2/22/70*

FEDERAL AVIATION ADMIN.

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
CHIEF AIRPORTS BRANCH

VERMONT AERONAUTICS BD.

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_ TITLE \_\_\_\_\_  
*[Signature]* 4/4/68 COMMISSIONER  
*[Signature]* 1/5/68 ENGINEER

VERMONT HIGHWAY DEPT.

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_ TITLE \_\_\_\_\_  
*[Signature]* 3/13/68 DISTRICT ENGINEER

TOWN OF BENNINGTON

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_ AUTHORITY \_\_\_\_\_  
*[Signature]* 3/13/68 CHAIRMAN AIRPORT COMMISSION  
*[Signature]* 4/1/68 CHAIRMAN BOARD OF SELECTMEN

CADIZ CONSULTANTS, INC.

CONSULTING ENGINEERS AND SURVEYORS  
BENNINGTON, VERMONT

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
1	Sub-base of Gravel	6450 CY
2	Gravel Base Course	1965 CY
3	Tack Coat Type I B	14,700 GAL.
4	Bituminous Concrete Pavement	10 TONS
5	12" A.C.C.G.M.P.	96 LF
6	15" A.C.C.G.M.P.	18 LF
7	18" A.C.C.G.M.P.	254 LF
8	24" A.C.C.G.M.P.	80 LF
9	ACCGMP Arch 36" x 50"	40 LF
10	ACCGMP Arch 40" x 65"	50 LF
11	6" Perf. Corr. Alum. Alloy Pipe (Estimated)	300 LF
12	Drop Inlet, Type III	1 EA.
13	Wood Guide Post	16 EA.

*125-657*  
See Preliminary Plans for X Sections

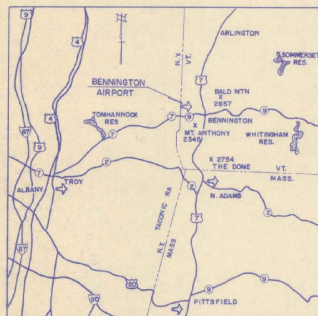
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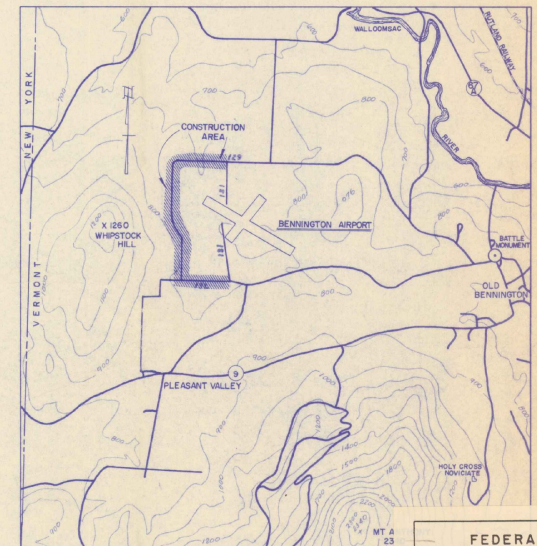
PLANS FOR CONSTRUCTION  
OF THE  
WHIPSTOCK CONNECTION

BENNINGTON, VERMONT

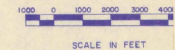
PROJECT NO. FORCE ACCOUNT (9-43-001-C802)



LOCATION MAP



VICINITY MAP



FEDERAL AIRPORT PROGRAM  
Bennington Municipal Airport  
PROJECT DOCUMENT  
Bennington, Vermont  
This Material is An Official Part Of Grant Agreement  
Project No. 9-43-001-C802  
Construct Whipstock Connector.  
EA Form 5100-2 (3-66) (Replaces EA Form 2410 which may be used)

FEBRUARY, 1968

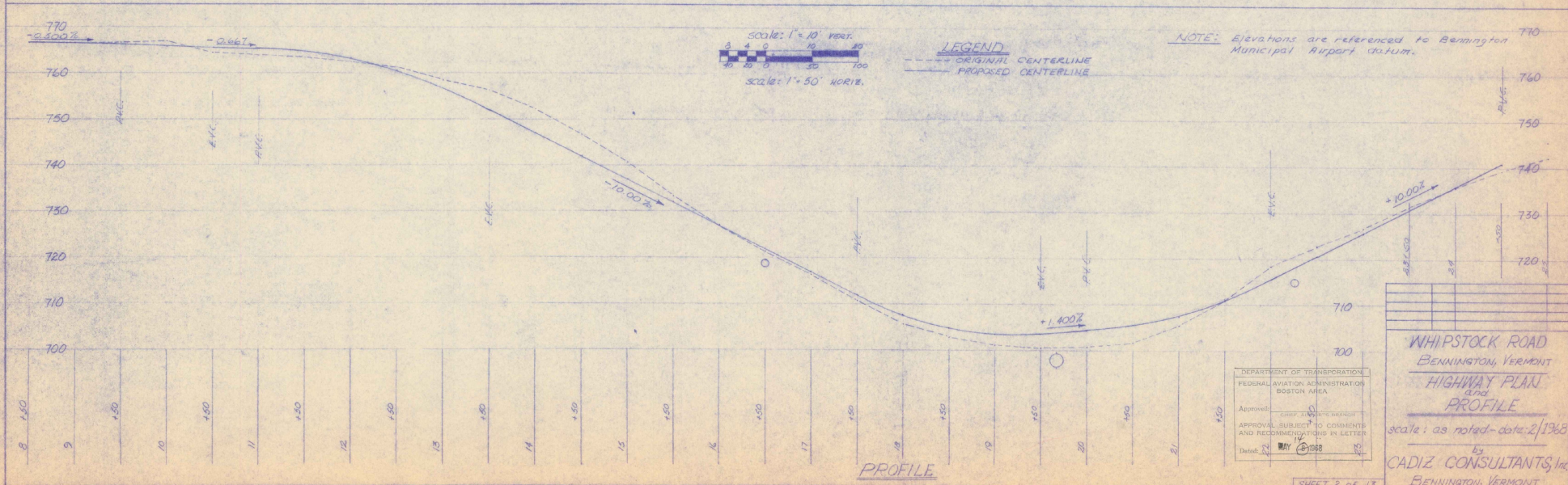
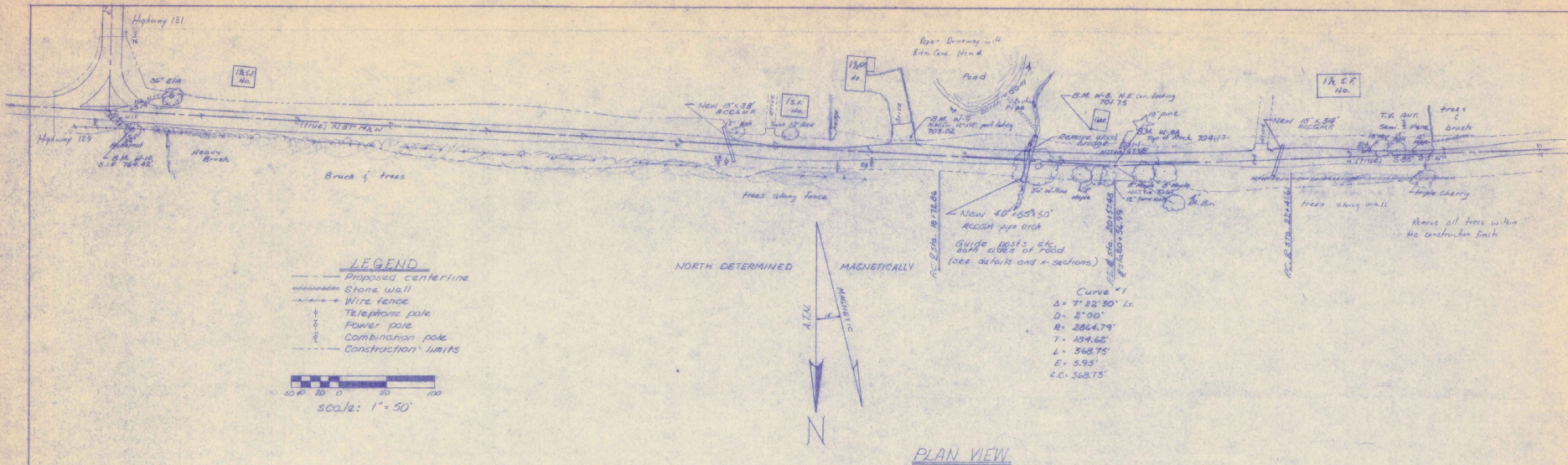
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APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
*[Signature]* MAY 16 1968  
CHIEF AIRPORTS BRANCH

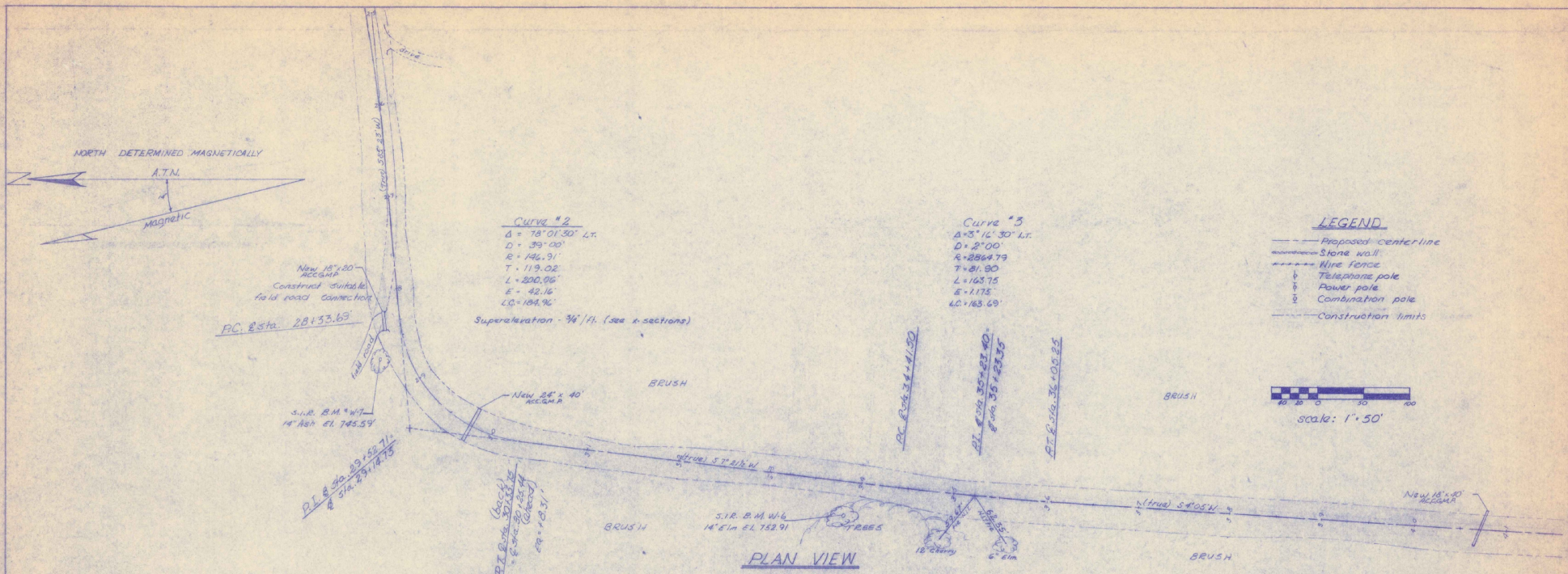
VERMONT AERONAUTICS BD.  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_ TITLE \_\_\_\_\_  
COMMISSIONER  
*[Signature]* 1/5/68  
ENGINEER

VERMONT HIGHWAY DEPT.  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_ TITLE \_\_\_\_\_  
DISTRICT ENGINEER  
*[Signature]* 3/23/68

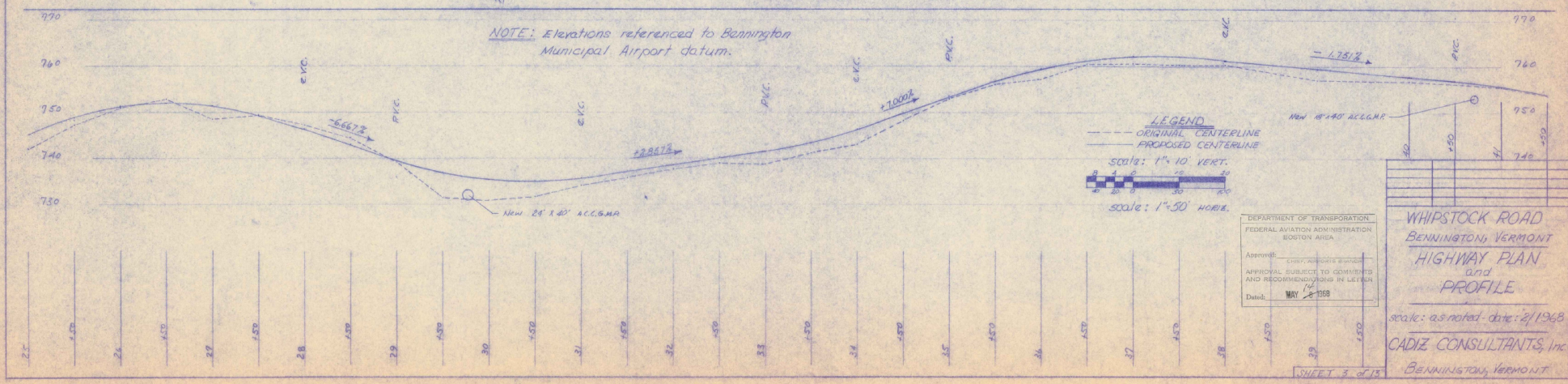
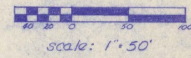
TOWN OF BENNINGTON  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_ AUTHORITY \_\_\_\_\_  
CHAIRMAN AIRPORT COMMISSION  
*[Signature]* 3/13/68  
CHAIRMAN BOARD OF SELECTMEN  
*[Signature]* 4/2/68

CADIZ CONSULTANTS, INC.  
CONSULTING ENGINEERS AND SURVEYORS  
BENNINGTON, VERMONT





- LEGEND**
- Proposed centerline
  - Stone wall
  - Fly fence
  - Telephone pole
  - Power pole
  - Combination pole
  - Construction limits



DEPARTMENT OF TRANSPORTATION  
 FEDERAL AVIATION ADMINISTRATION  
 BOSTON AREA

Approved: \_\_\_\_\_  
 APPROVAL SUBJECT TO COMMENTS  
 AND RECOMMENDATIONS IN LETTER  
 14

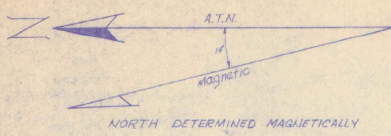
Dated: MAY 18 1968

WHIPSTOCK ROAD  
 BENNINGTON, VERMONT  
 HIGHWAY PLAN  
 and  
 PROFILE

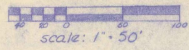
scale: as noted date: 2/1968

CADIZ CONSULTANTS, Inc  
 BENNINGTON, VERMONT

SHEET 3 OF 13



Curve #4  
 $\Delta = 3^{\circ} 40' 00''$  Lt.  
 $D = 3^{\circ} 00' 00''$   
 $R = 2864.79'$   
 $T = 91.70'$   
 $L = 183.34'$   
 $E = 1.46'$   
 $LC = 183.39'$

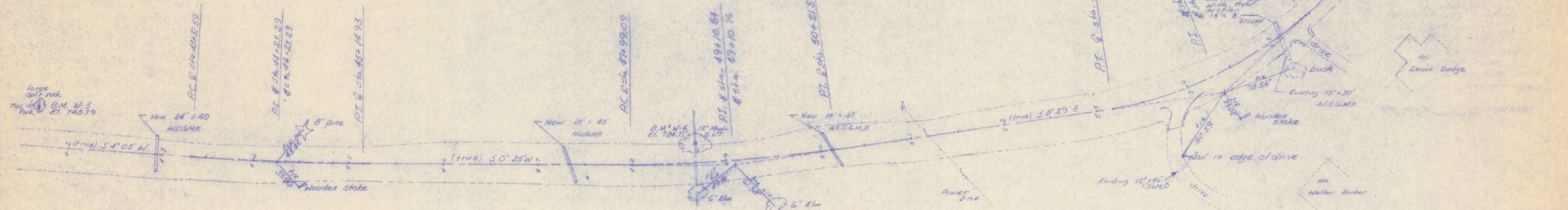


Curve #5  
 $\Delta = 8^{\circ} 54' 00''$  Lt.  
 $D = 4^{\circ} 00' 00''$   
 $R = 1432.39'$   
 $T = 111.45'$   
 $L = 222.50'$   
 $E = 4.32'$   
 $LC = 222.28'$

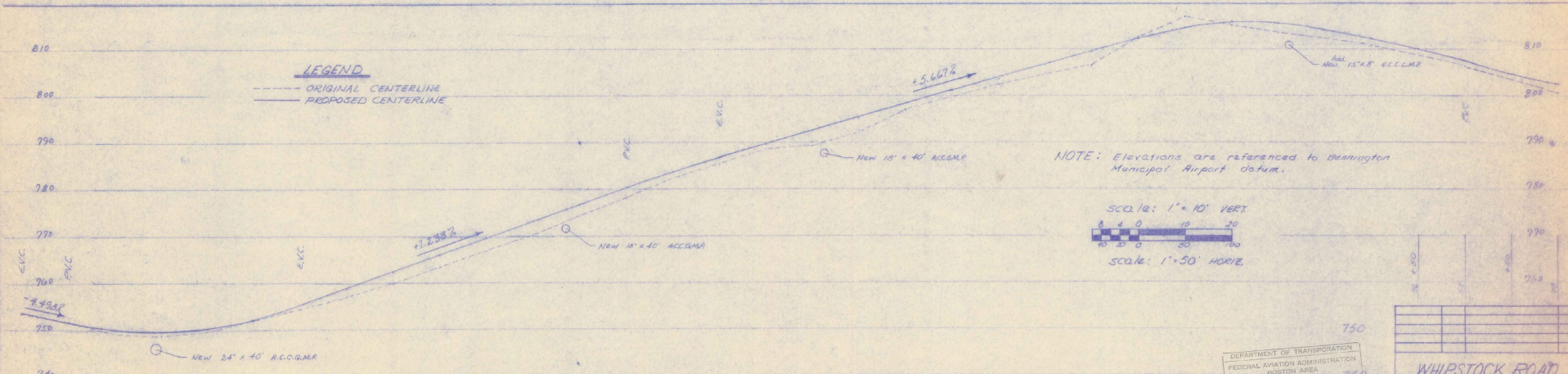
**LEGEND**

- Proposed centerline
- Stone wall
- Wire fence
- Telephone pole
- Power pole
- Combination pole
- Construction limits

Curve #6  
 $\Delta = 34^{\circ} 35' 00''$  Lt.  
 $D = 15^{\circ} 00' 00''$  (Superelevate 1/4 ft.)  
 $R = 381.97'$   
 $T = 118.91'$   
 $L = 230.56'$   
 $E = 18.08'$   
 $LC = 227.06'$



**PLAN VIEW**

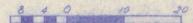


**LEGEND**

- ORIGINAL CENTERLINE
- PROPOSED CENTERLINE

NOTE: Elevations are referenced to Bennington Municipal Airport datum.

scale: 1" = 10' VERT



scale: 1" = 50' HORIZ

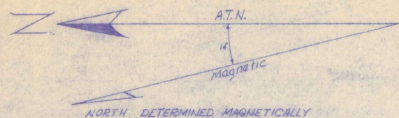
DEPARTMENT OF TRANSPORTATION  
 FEDERAL AVIATION ADMINISTRATION  
 BOSTON AREA  
 Approved: [Signature] 740  
 APPROVAL SUBJECT TO CIVIL ENGINEER  
 AND RECOMMENDATION IN LETTER  
 Dated: MAY 8 1968 730

WHIPSTOCK ROAD  
 BENNINGTON, VERMONT  
 HIGHWAY PLAN  
 PROFILE

scale: as noted date: 2/1968

CADIZ CONSULTANTS, Inc.  
 BENNINGTON, VERMONT

**PROFILE**

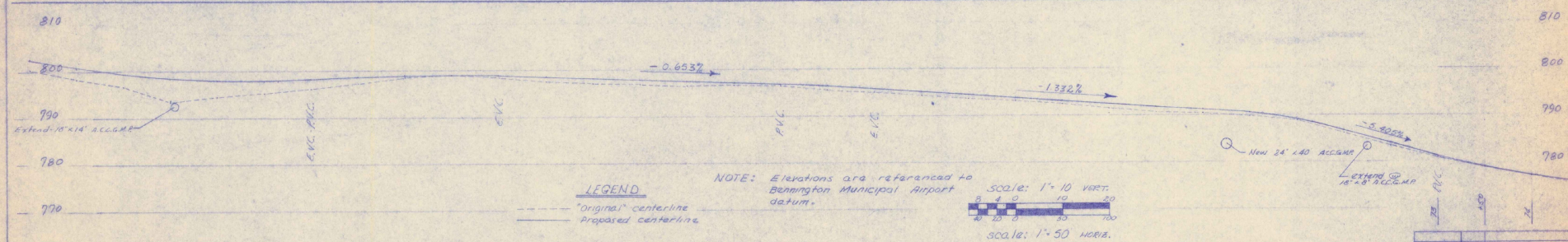
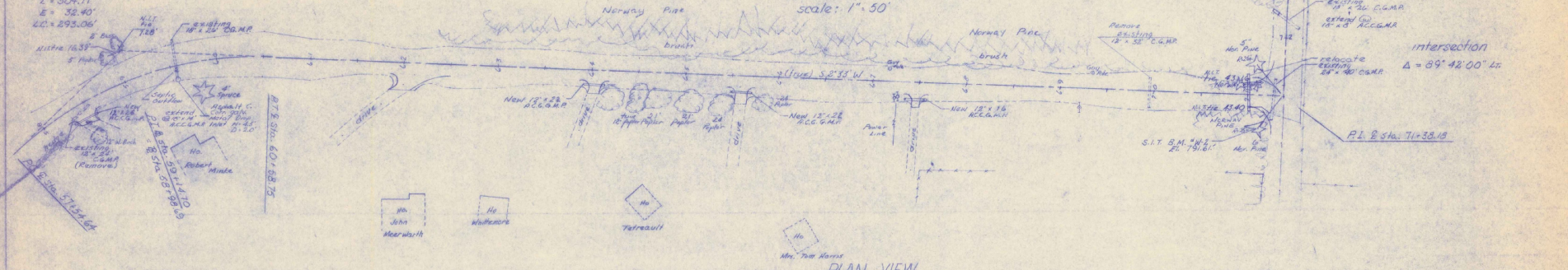
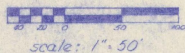


NORTH DETERMINED MAGNETICALLY

CURVE #7  
 $\Delta = 45^{\circ} 37' 00''$  Rn  
 $D = 18^{\circ} 00' 20''$   
 $E = 391.97'$   
 $T = 160.06'$  (Superelevate -  $\frac{1}{2}$  / Ant)  
 $L = 304.11'$   
 $E = 52.40'$   
 $C.O. = 293.06'$

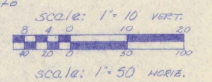
Repair 8th. Conc Drive w/ 4  
 8' in Conc Mand

- LEGEND**
- Proposed centerline
  - Stone wall
  - Wire fence
  - Telephone pole
  - Power pole
  - Combination pole
  - Construction limits



- LEGEND**
- "Original" centerline
  - Proposed centerline

NOTE: Elevations are referenced to Bennington Municipal Airport datum.



DEPARTMENT OF TRANSPORTATION  
 FEDERAL AVIATION ADMINISTRATION  
 BOSTON AREA

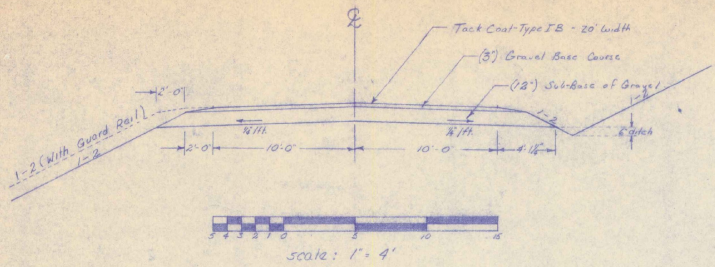
Approved: \_\_\_\_\_  
 APPROVAL SUBJECT TO COMMENTS  
 AND RECOMMENDATIONS IN LETTER  
 14  
 Date: MAY 8 1969

**WHIPSTOCK ROAD  
 BENNINGTON, VERMONT  
 HIGHWAY PLAN  
 and  
 PROFILE**

scales as noted date: 1/1968

**CADIZ CONSULTANTS, Inc.**  
 BENNINGTON, VERMONT



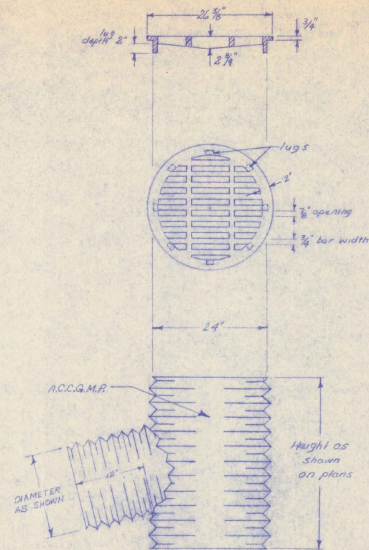


TYPICAL SECTION

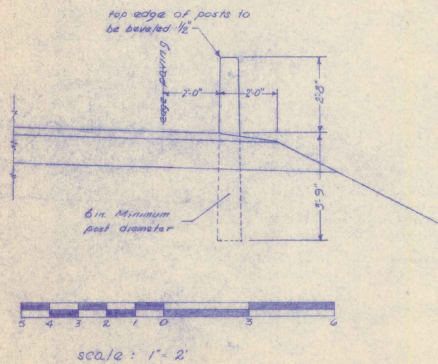
Station 10+00 - 90+23.83 (except as otherwise noted in the Cross Sections)

Drainage pipes are to be at least 18" below Sub-Base of Gravel.

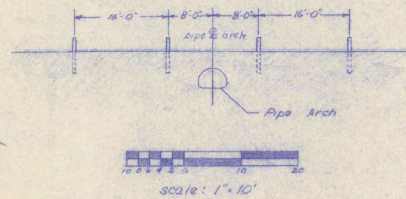
Asphalt Material to be applied to a width of 20 feet at the rate specified by the Supervisor



24" ACCG.M.P. DI WITH GRATE  
Drop Inlet - Type III



WOOD GUIDE POST DETAIL

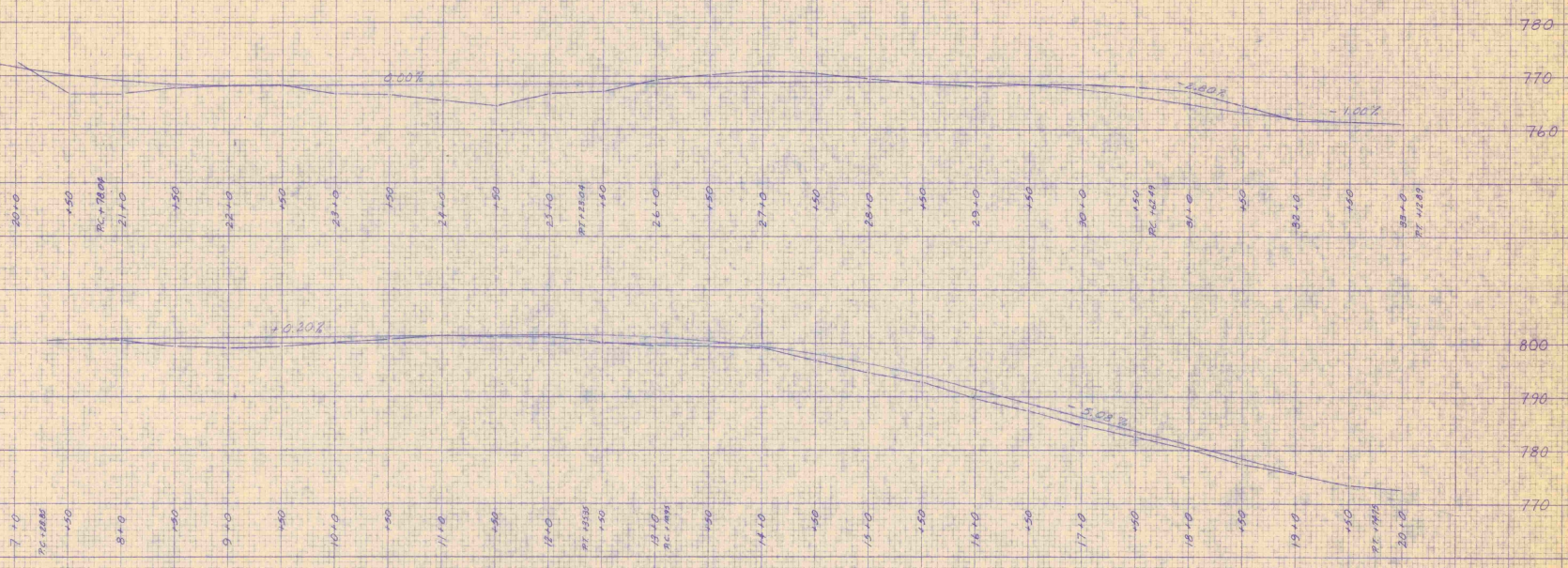


DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION  
BOSTON AREA

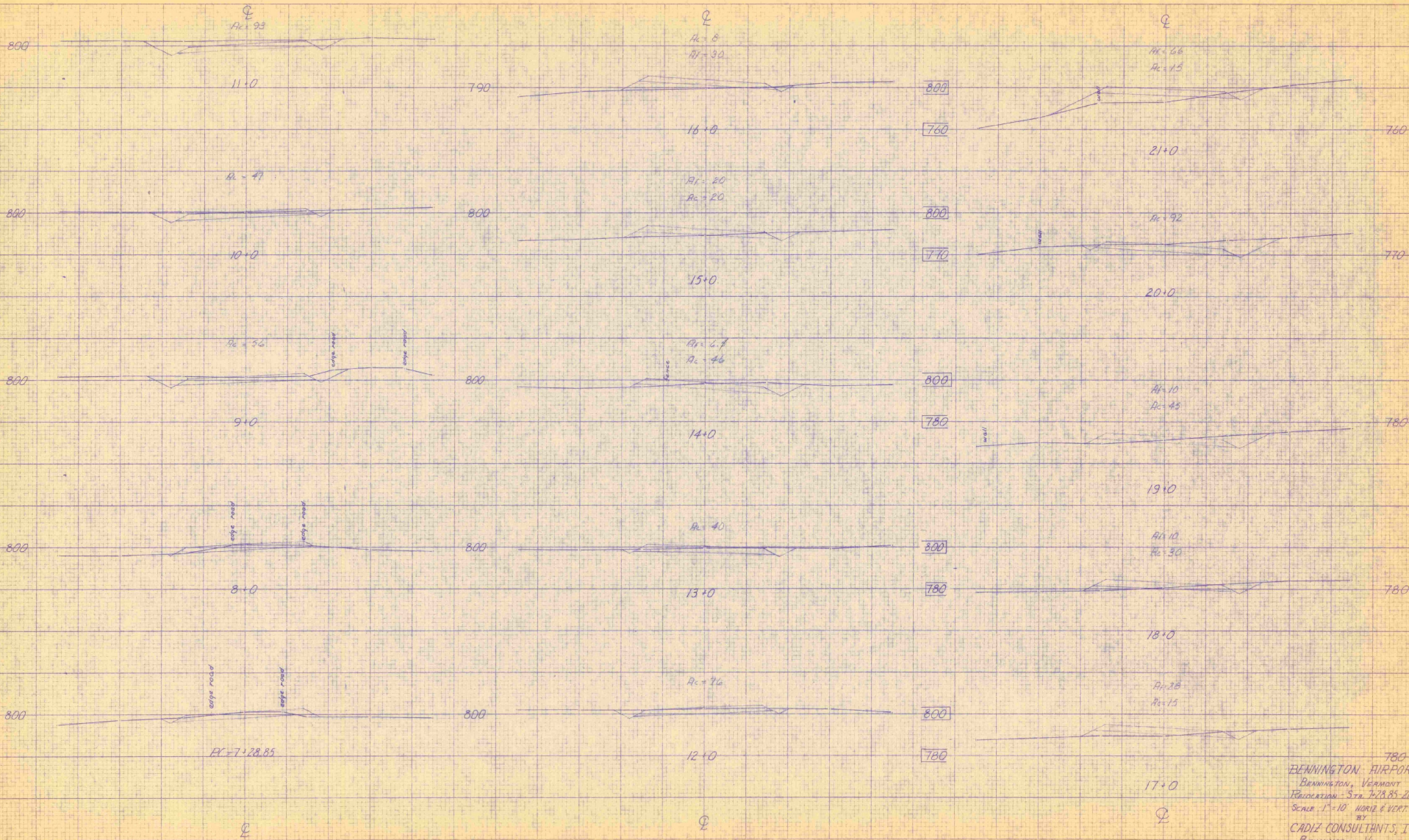
APPROVED: \_\_\_\_\_  
APPROVAL SUBJECT TO COMMENTS  
AND RECOMMENDATIONS IN LETTER

Date: MAY 2 1968

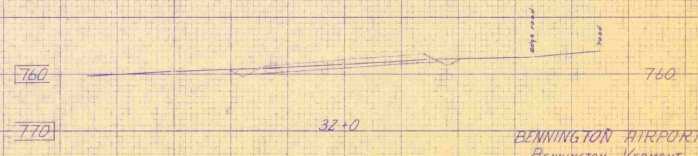
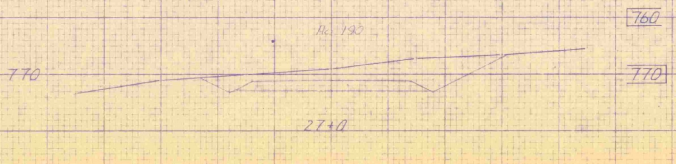
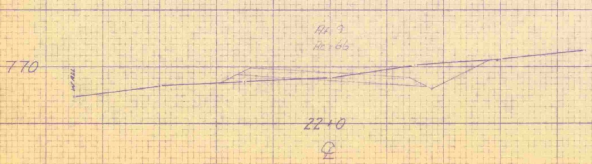
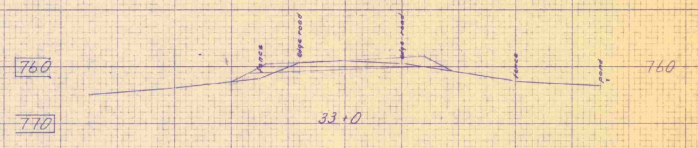
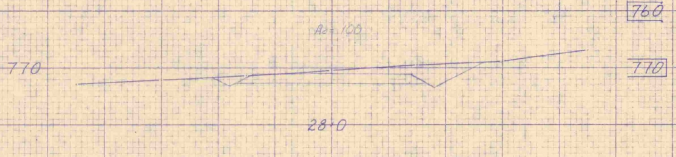
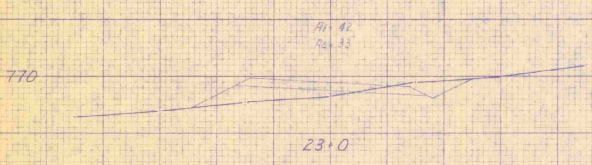
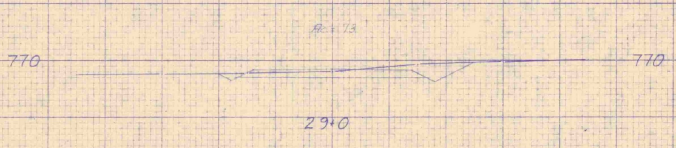
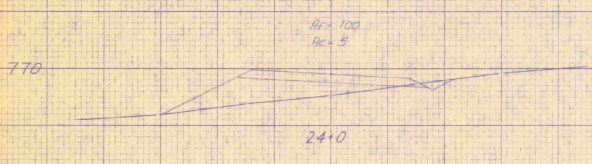
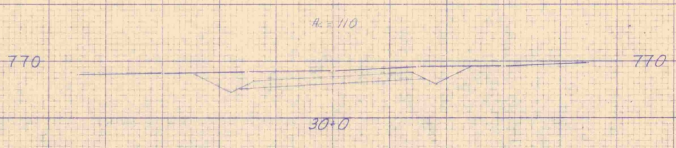
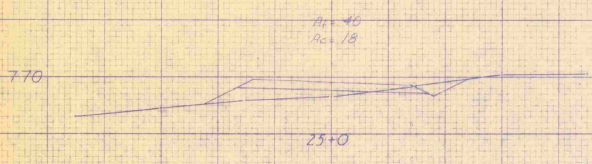
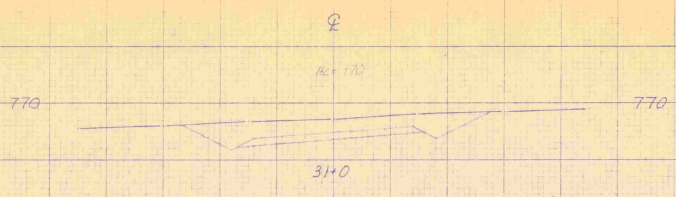
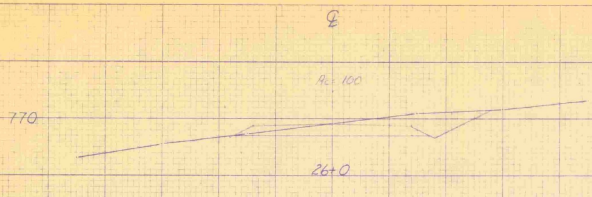
WHIPSTOCK ROAD  
BENNINGTON, VERMONT  
TYPICAL SECTIONS  
AND  
DETAILS  
scale: as noted - date: 2/1/68  
by  
CADIZ CONSULTANTS, Inc.  
BENNINGTON, VERMONT



BENNINGTON AIRPORT  
 BENNINGTON, VERMONT  
 RELOCATION PROFILE  
 SCALE 1" = 50' HORIZ. 1" = 10' VERT.  
 BY  
 CADIZ CONSULTANTS, INC.  
 BENNINGTON, VERMONT



780  
 BENNINGTON AIRPORT  
 BENNINGTON, VERMONT  
 REVISION - 5.28.85-2141  
 SCALE 1" = 10' HORIZ & VERT.  
 BY  
 CADIZ CONSULTANTS, INC.  
 BENNINGTON, VERMONT



BENNINGTON AIRPORT  
 BENNINGTON, VERMONT  
 RELOCATION - STA 26+0-33+0  
 SCALE 1"=10' HORIZ VERT.  
 BY  
 CADIZ CONSULTANTS, INC.  
 BENNINGTON, VERMONT