

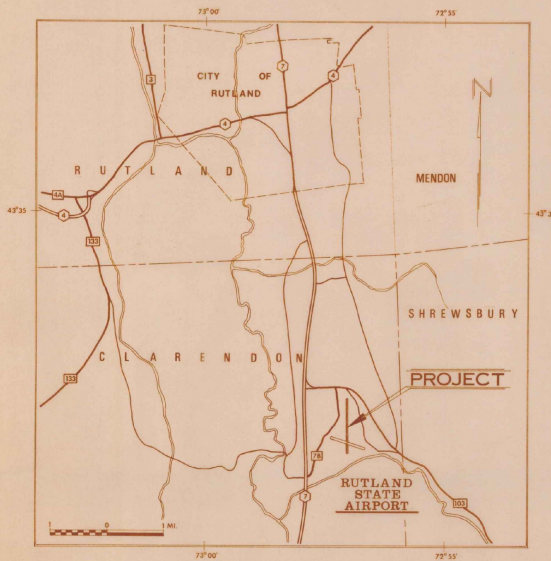
GEOGRAPHIC LOCATION:
 Latitude 43° 31' 46" N
 Longitude 72° 58' 54" W
 Elevation 787' - Highest Point on Usable Landing Area
 Airline Distance & Direction from Rutland 5.9 Miles South
 Distance by Road to Rutland Post Office 6.25 Miles

PLANS FOR RECONSTRUCT PORTIONS, OVERLAY, (STRENGTHENING) AND MARK RUNWAY 1-19, (5000' x 150'); INSTALL VASI-4 AND REILS ON RUNWAY 1-19 INSTALL 36 INCH ROTATING AIRPORT BEACON ON 62' TUBULAR STEEL TOWER

RUTLAND STATE AIRPORT

NORTH CLARENDON, VERMONT

A.D.A.P. PROJ. NO. 8-50-0015-03



VICINITY MAP

LEGEND

- U. S. Highways
- State Highways
- Secondary Roads and Street
- Rivers
- Town Boundary
- City Boundary

JOB PROJECT I				
ITEM	DESCRIPTION	UNIT	EST. QUANT.	FINAL QUANT.
1	Unclassified Excavation	C.Y.	2,000	2,000
2	Grout Course	C.Y.	1,220	1,878
3	Crushed Aggregate Base Course	C.Y.	800	800
4	Bituminous Prime Coat	SAL.	2,500	2,450
5	Raise Drop Inlet Grates	Each	50	50
6	Ex Underdrain	L.F.	674	674
6A	Porous Backfill No. 2	C.Y.	180	180
7	Boulder Removal (less than 3 cubic yard)	Each	15	24
7A	Boulder Removal (over 3 cubic yard)	Each	5	20
8	Crack Filling	L.F.	100,000	119,619
9	Pavement Removal	S.Y.	14,000	12,564
10	Bituminous Tack Coat	GAL.	12,000	8,510
11	Bituminous Surface Course	Ton	14,500	13,972
12	Runway Painting	L.S.	200	230
13	Topsoiling	C.Y.	200	230
14	Seeding	DELETED	40	---
		U.S.F.		

JOB PROJECT II				
ITEM	DESCRIPTION	UNIT	EST. QUANT.	FINAL QUANT.
1	Airport Rotating Beacon	L.S.	1	1
2	Tubular Steel Beacon Tower	L.S.	1	1
3	Cable Trench	L.F.	4,700	4,631
4	U.G. Cable installed in trench (#4)	L.F.	7,000	6,590
5	U.G. Cable installed in trench (#6)	L.F.	12,000	11,608
6	U.G. Cable installed in duct or conduit (#4)	L.F.	110	138
7	U.G. Cable installed in duct or conduit (#6)	L.F.	240	276
8	Runway End Identification Lights	L.S.	1	1
9	Four Box Visual Approach Slope Indicators	L.S.	1	1
10	Demolition of Existing Beacon Tower	L.S.	1	1

AS BUILT PLANS

I HEREBY CERTIFY THAT ALL CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.
 DUFRESNE-HENRY ENGR CORP
 BY *John P. Higgins* PROJECT ENGINEER
 DATE 7-25-76

AUGUST 15, 1973

INDEX OF SHEETS	
SHEET	TITLE
	Title Page
1	Drainage and Typical Sections
2	Numeral and Centerline Marking Details
3	Borings, Boulders and Waste Area Location
4	36" Rotating Beacon, Tower, Base Details and Wiring Diagrams
5	VASI Box and Identifier Lighting Details
6, 18	Runway Cross Sections
19-20	Reconstruction Area Cross Sections

NOTE: Runway Cross Sections and Reconstruction Area Cross Sections Plans are available at the Engineer's office. Complete sets will be available to the final bidder prior to construction.

REVISIONS		
Date	Description	by

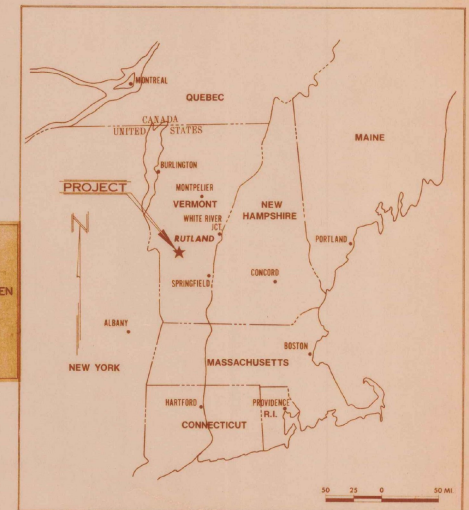
U.S. DEPT. OF TRANSPORTATION
 FEDERAL AVIATION ADMINISTRATION

Approved _____ Date _____
 Chief, Airports Branch

VERMONT AERONAUTICS BOARD

Approved _____ Date _____
 Commissioner

Approved _____ Date _____
 Engineer

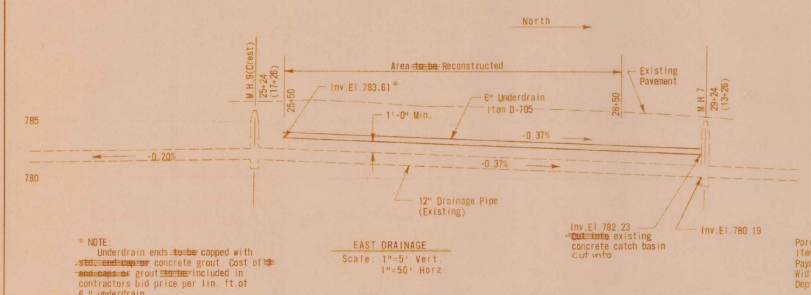
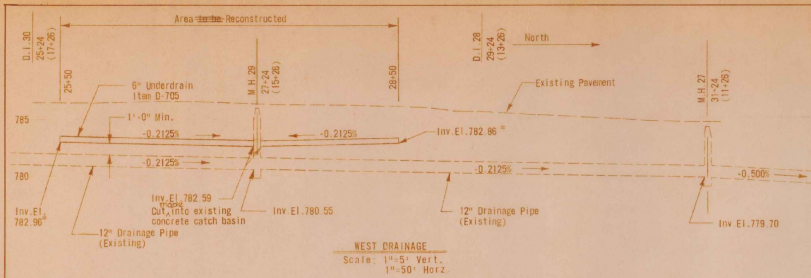


LOCATION MAP

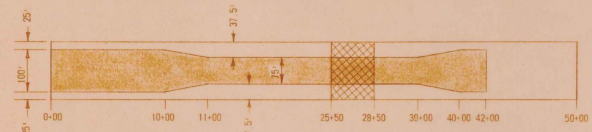
RUTLAND STATE AIRPORT
 RUNWAY 1-19
 TITLE PAGE
 A.D.A.P. PROJECT NO. 8-50-0015-03

DUFRESNE-HENRY
 Engineering Corporation
 REGISTERED PROFESSIONAL ENGINEERS

DESIGNED BY: 73-2-50015-1
 DRAWN BY: E.J. Johnson
 CHECKED BY: As Shown
 DATE: July 10, 1973



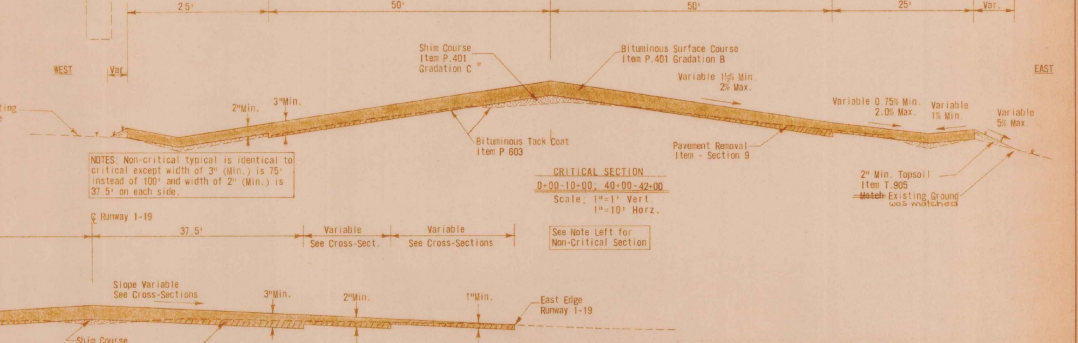
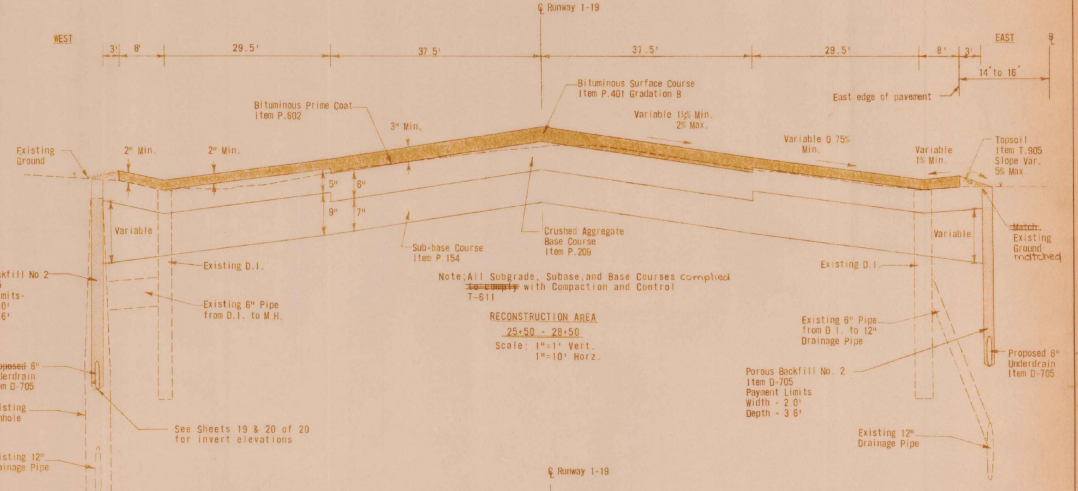
NOTE: Underdrain ends to be capped with concrete grom. Cost of 15' concrete grom included in contractor's bid price per lin. ft. of 8" underdrain.



AS BUILT PLANS

I HEREBY CERTIFY THAT ALL CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

DUFRESNE-HENRY ENGR. CORP.
 DATE: 1-23-76 PROJECT ENGINEER



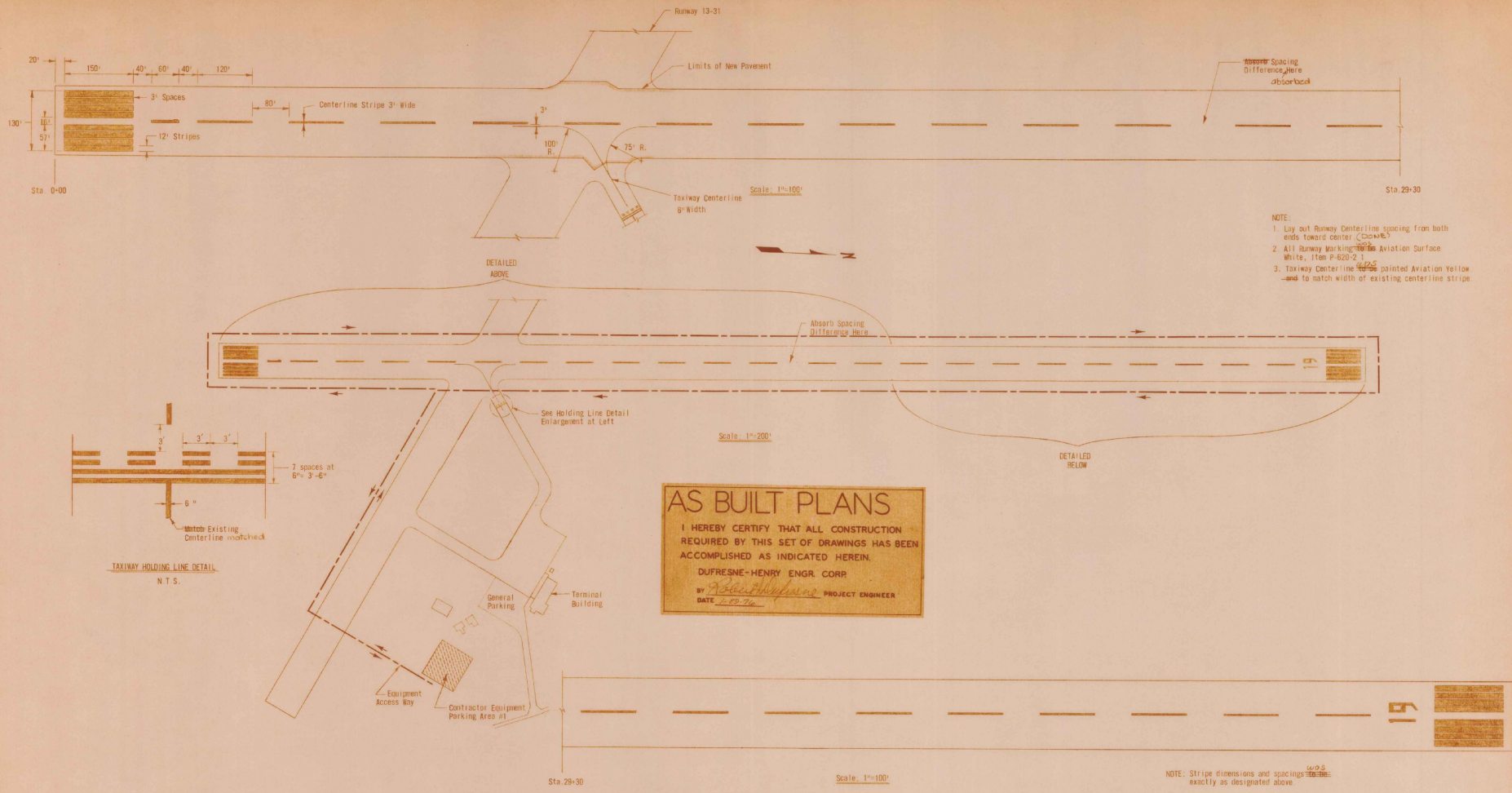
MATCHING GRADE OF OLD AND NEW PAVEMENTS
 INTERSECTION AREA STA. 10+50-12+50
 Scale: 1"=1' Vert., 1"=10' Horiz.

NOTE: Gradation C shall be used for all shim depths of less than 1 1/2". When shim depth exceeds 1 1/2", Gradation B shall be used. Max. course depth Gradation B - 1" Gradation C - 2"

RUTLAND STATE AIRPORT
 RUNWAY 1-19
 DRAINAGE AND TYPICAL SECTIONS
 A. D. A. P. PROJECT NO. 8-50-1015-03 Vermont

DUFRESNE-HENRY
 Engineering Corporation
 100 North Main Street
 Rutland, Vermont

DESIGNED BY	2-80-101	DESIGNED BY	R. J. Dufresne
CHECKED BY	7-5-73	CHECKED BY	As Shown
DATE	7-5-73	DATE	July 10, 1973
PROJECT NO.	8-50-1015-03	PROJECT NO.	8-50-1015-03



- NOTE:
1. Lay out Runway Centerline spacing from both ends toward center.
 2. All Runway Markings to be Aviation Surface White, Item P-620-2.1.
 3. Taxiway Centerline to be painted Aviation Yellow and to match width of existing centerline stripe.

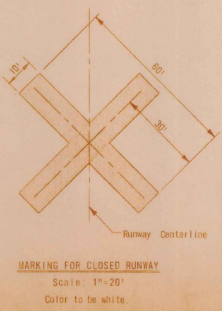
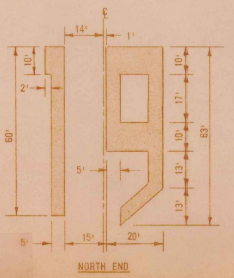
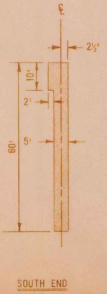
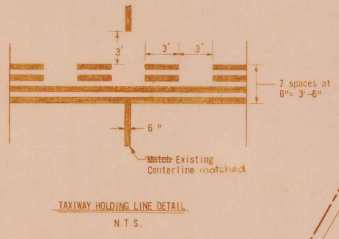
AS BUILT PLANS

I HEREBY CERTIFY THAT ALL CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

DUFRESNE-HENRY ENGR CORP

BY *Robert J. Dufresne* PROJECT ENGINEER

DATE 1-20-26



NOTE: Closed runway marking to be installed over runway materials of either runway during any construction operations that obstructed the runway. Material for cross and method of anchoring to be approved with approval of Engineer. This item cost included in surfacing cost.

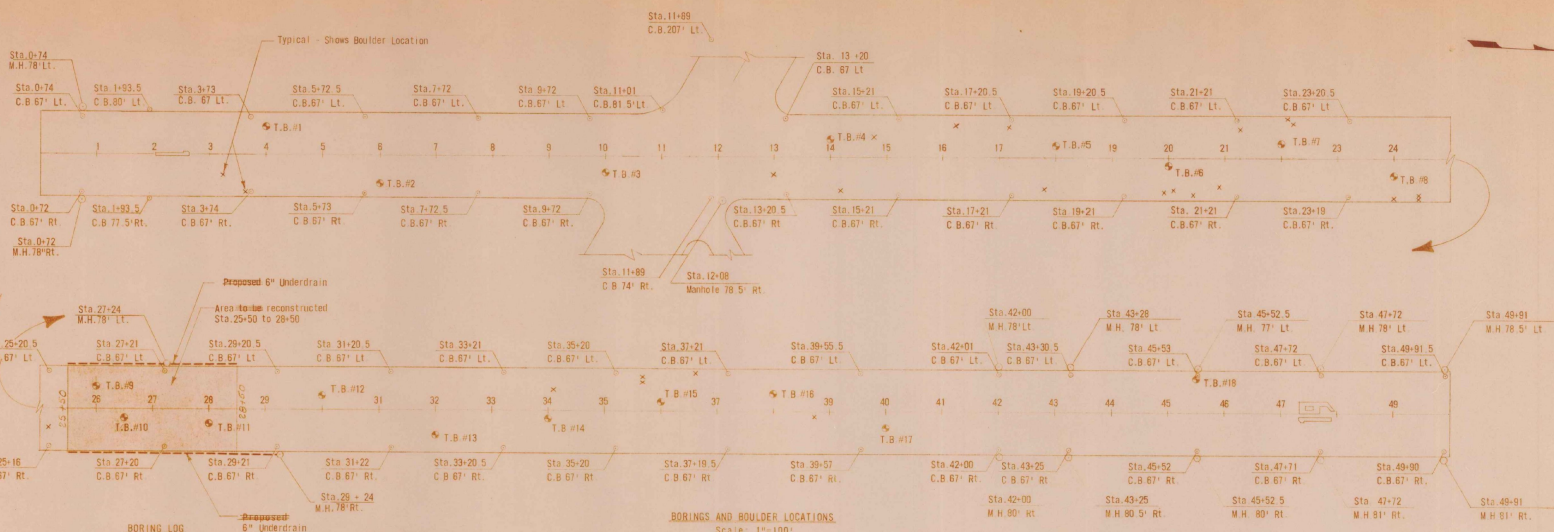
RUTLAND STATE AIRPORT		1008	
RUNWAY 1-19		19	
NUMERAL AND CENTERLINE MARKING DETAILS			
A. C. A. P. PROJ. NO. 8-50-0015-03			
Rutland	DUFRESNE-HENRY Engineering Corporation		Vermont
REGISTERED PROFESSIONAL CIVIL & SANITARY ENGINEERS			
DESIGNED BY	SCALE	DESIGN ENGINEER	DATE
DRAWN BY	1/8\"/>		

LOCATION OF BOULDERS		
STATION	DISTANCE Left	Right
3-25		37.5
3-64		68.0
13-00		32.5
14-19		60.0
14-77	34.0	
16-25	52.0	
17-16		
17-80.5		58.0
19-90		63.0
20-88		57.0
20-43		66.5
20-88		51.0
21-25	51.0	
22-10		68.0
22-19		58.0
24-00		
24-43		70.0
24-43		70.5
25-21		65.0
25-21		39.0
34-12	38.0	
35-68	58.5	
35-68	49.5	
36-52.5	67.0	
38-75		9.0

Note: An additional 20 boulders were removed from random locations.

B.M.	ELEVATIONS AND LOCATIONS
1	781.135 4'-50" 100' RT.
2	783.890 9'-00" 100' RT.
3	784.030 13'-50" 100' RT.
4	784.200 18'-00" 100' RT.
5	784.990 22'-50" 100' RT.
6	785.570 27'-00" 100' RT.
7	783.715 31'-50" 100' RT.
8	781.440 36'-00" 100' RT.
9	778.560 40'-50" 100' RT.
10	777.245 45'-00" 100' RT.

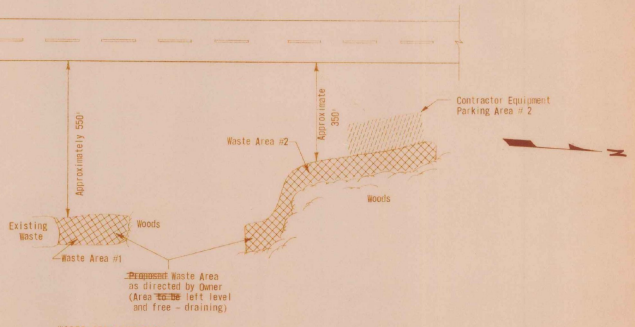
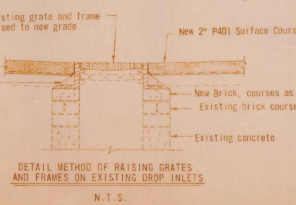
NOTE: All B.M.'s are located 100' right of the baseline stations and are on top of steel rods.



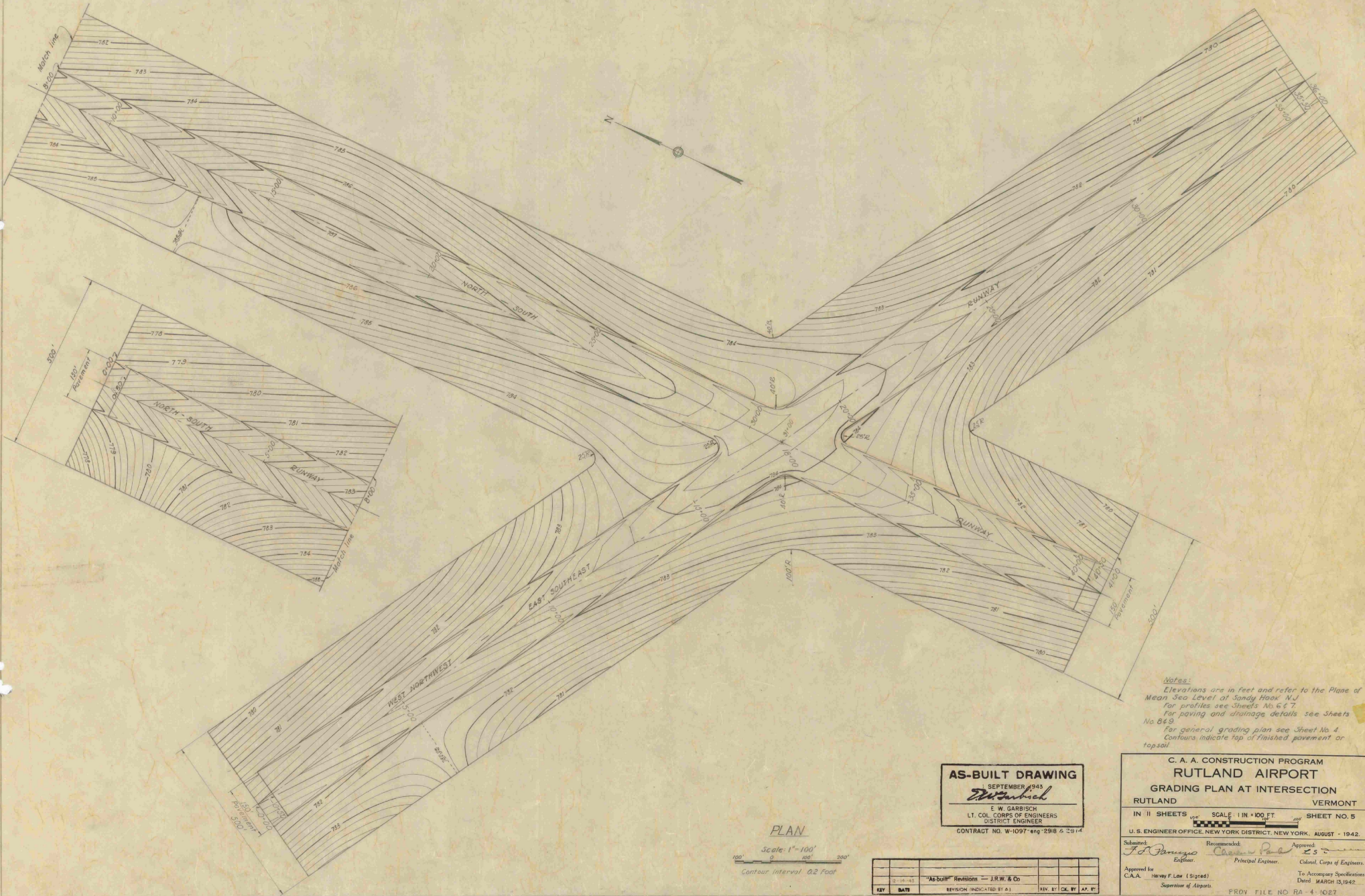
BORINGS AND BOULDER LOCATIONS Scale: 1"=100'

AS BUILT PLANS
 I HEREBY CERTIFY THAT ALL CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.
 DUFRESNE-HENRY ENGR. CORP.
 BY *[Signature]* PROJECT ENGINEER
 DATE 7.10.76

NOTE: Boulders removed between 25-50 to 28-50 and are removed and paid for under Section 1, "Unclassified Excavation." No "Boulder" payment, as such, will be made.



RUTLAND STATE AIRPORT RUNWAY 1-19 BORINGS, BOULDERS & WASTE AREA LOCATION A.D.A.P., PROJECT NO. 8-50-0015-03			
Rutland, Vermont			
DUFRESNE-HENRY Engineering Corporation			
REGISTERED PROFESSIONAL CIVIL & SANITARY ENGINEERS		LICENSE NO. 20010	
DRAWING NO. 20010		DESIGN SHEET E-2-C	
SURVEY CODE		SCALE AS SHOWN	
CHECKED BY GW 6-25-73		SHEET 3 OF 20	
DRAWN BY WR 8-28-73		DATE JUNE 29, 1973	
APPROVED <i>[Signature]</i>			



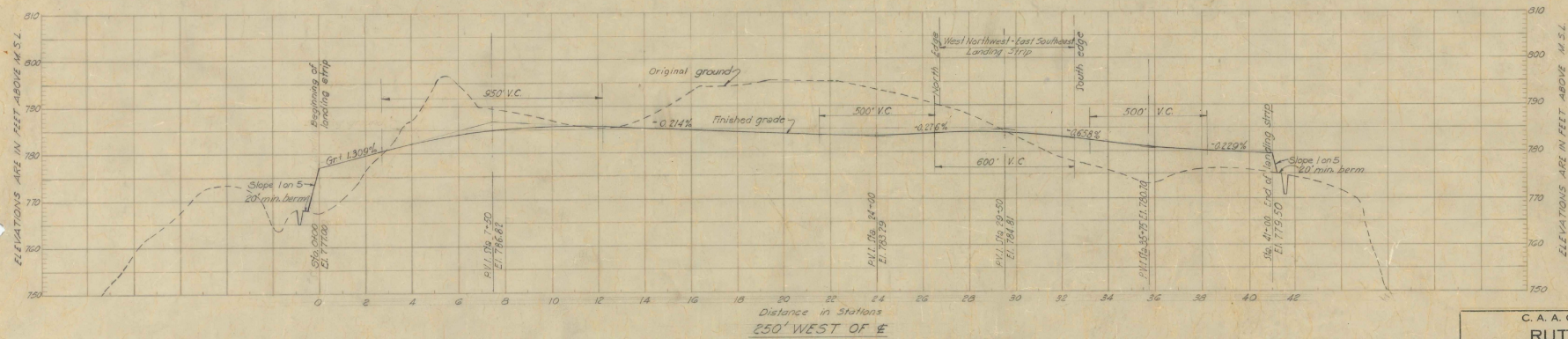
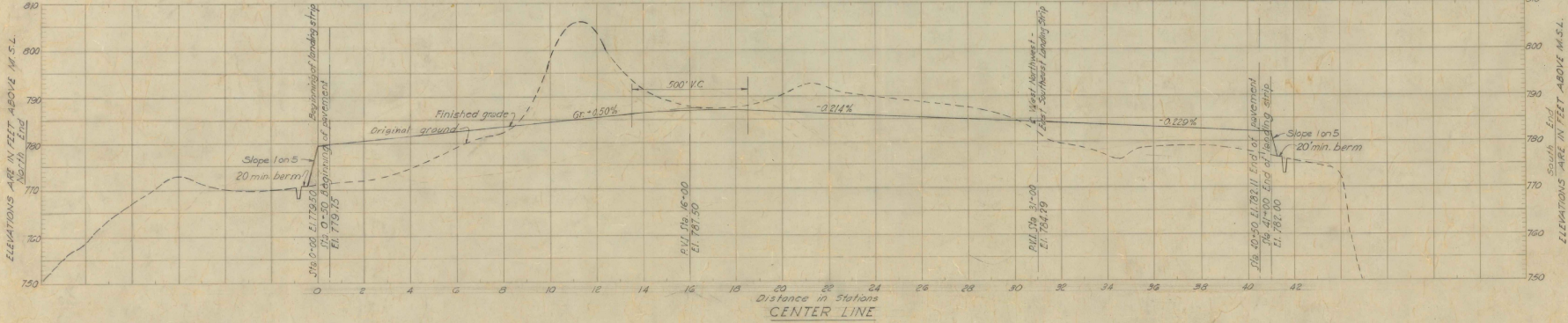
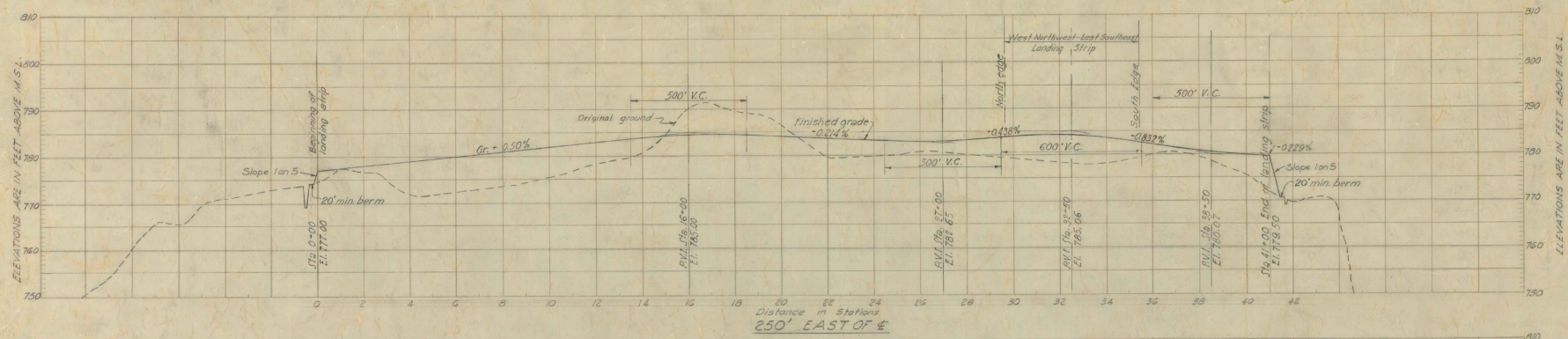
Notes:
 Elevations are in feet and refer to the Plane of Mean Sea Level of Sandy Hook, N.J.
 For profiles see Sheets No. 6 & 7
 For paving and drainage details see Sheets No. 8 & 9
 For general grading plan see Sheet No. 4
 Contours indicate top of finished pavement or topsoil.

AS-BUILT DRAWING
 SEPTEMBER 1945
E. W. Garbisch
 E. W. GARBISCH
 LT. COL. CORPS OF ENGINEERS
 DISTRICT ENGINEER
 CONTRACT NO. W-1097-ENG 2918 & 2914

PLAN
 Scale: 1" = 100'
 Contour Interval 0.2 Foot

KEY	DATE	REVISION INDICATED BY A1	REV. BY	CHK. BY	APP. BY

C. A. A. CONSTRUCTION PROGRAM
RUTLAND AIRPORT
GRADING PLAN AT INTERSECTION
 RUTLAND VERMONT
 IN 11 SHEETS SCALE: 1 IN = 100 FT SHEET NO. 5
 U. S. ENGINEER OFFICE, NEW YORK DISTRICT, NEW YORK, AUGUST, 1942.
 Submitted: *F. J. ...* Recommended: *C. ...* Approved: *E. S. ...*
 Engineer. Principal Engineer. Colonel, Corps of Engineers.
 Approved by: *...* To Accompany Specifications: Dated MARCH 15, 1942.
 C.A.A. Heavy F. Low (Signed) Supervisor of Airports.
 PROV FILE NO RA - 4 - 1027
 FILE NO. A - 496.



PROFILES OF NORTH-SOUTH LANDING STRIP

Scales: Horiz. 1" = 200'
Vert. 1" = 10'

AS-BUILT DRAWING
SEPTEMBER 1943
E. W. Garbisch
E. W. GARBISCH
LT. COL. CORPS OF ENGINEERS
DISTRICT ENGINEER

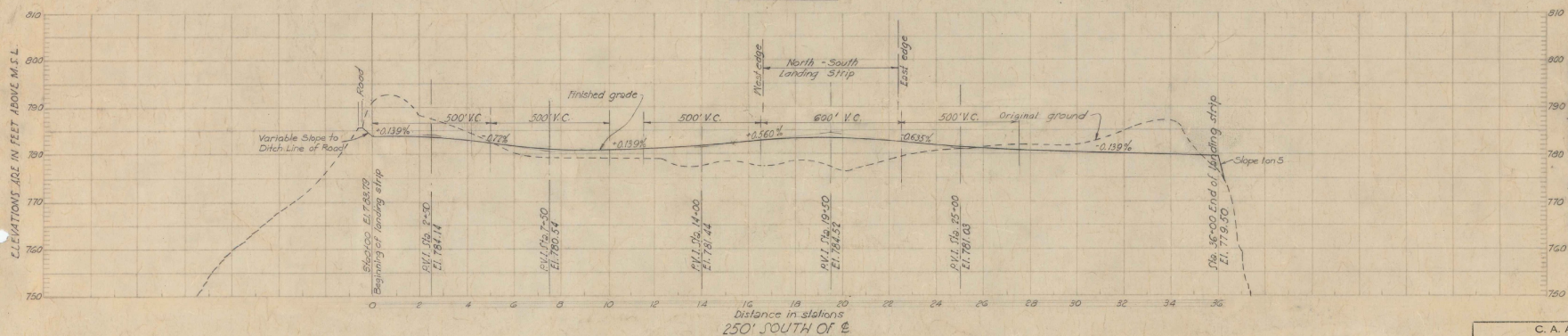
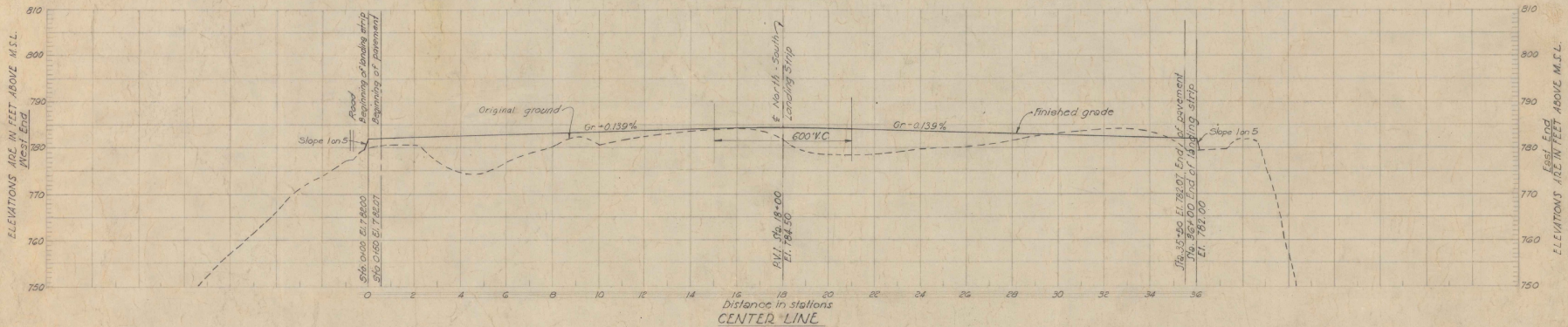
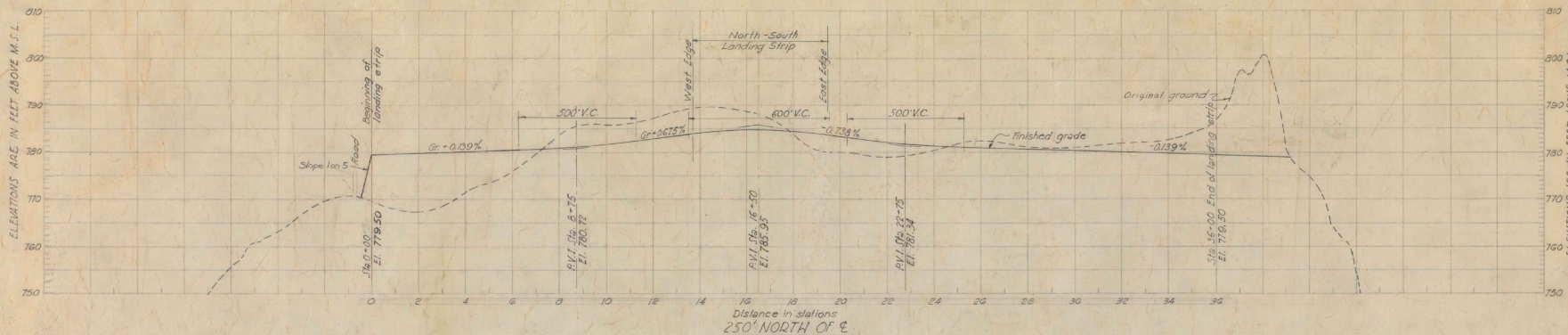
CONTRACT NO. W-1097-eng-2918 & 2919

NOTES:
Profiles are based on field survey by U.S. Engineer Office for Grading Plan see Sheets No. 465. Elevations are in feet and refer to the plane of Mean Sea Level at Sandy Hook, N.J. for profile of West Northwest-East Southwest landing strip see Sheet No. 7. Profiles show finished surface at top of pavement or topsoil for paving and drainage details see Sheet No. 8 & 9.

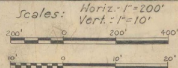
C. A. A. CONSTRUCTION PROGRAM
RUTLAND AIRPORT
PROFILES OF NORTH-SOUTH LANDING STRIP
RUTLAND VERMONT
IN 11 SHEETS HOR. SCALE: 1 IN. = 200 FT. SHEET NO. 6
VERT. SCALE: 1 IN. = 10 FT.
U. S. ENGINEER OFFICE, NEW YORK DISTRICT, NEW YORK. AUGUST - 1942.

Submitted	Recommended	Approved
<i>F. O. Pennington</i>	<i>Charles W. Parke</i>	<i>E. W. Garbisch</i>
Approved for CAA Harvey F. Low (Signed) Superintendent of Airports.	Principal Engineer	Col. Corps of Engineers To Approving Authorities Dist. MARS: B. 5.12

RA-3-1026
FILE NO. A-497



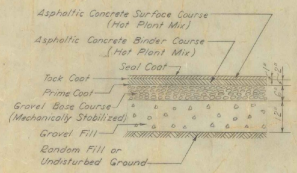
PROFILES OF WEST NORTHWEST-EAST SOUTHEAST LANDING STRIP



NOTES:
Profiles are based on field survey by U.S. Engineer Office.
For Grading Plan see sheets No. 8 & 5.
Elevations are in feet and refer to the plane of Mean Sea Level at Sandy Hook, N. J.
For profile of North-South landing strip see sheet No. 6.
Profiles show finished surface of top of pavement or topsoil.
For paving and drainage details see sheets No. 8 & 9.

AS-BUILT DRAWING
SEPTEMBER 1943
E. W. Garbisch
E. W. GARBISCH
LT. COL. CORPS OF ENGINEERS
DISTRICT ENGINEER
CONTRACT NO. W-1097-ENG-2918 A 2914

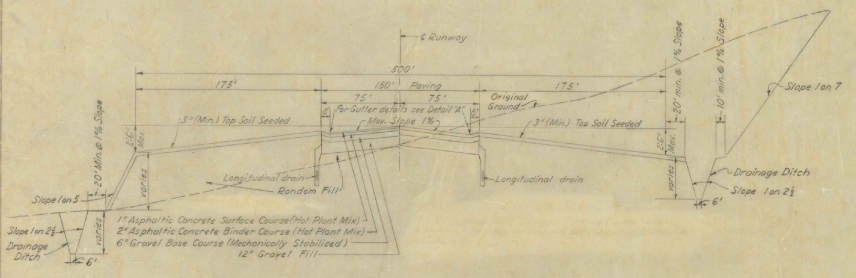
C. A. A. CONSTRUCTION PROGRAM
RUTLAND AIRPORT
PROFILES OF WEST NORTHWEST-
EAST SOUTH EAST LANDING STRIP
VERMONT
IN 11 SHEETS HOR. SCALE: 1 IN. = 200 FT. SHEET NO. 7
VERT. SCALE: 1 IN. = 10 FT.
U. S. ENGINEER OFFICE, NEW YORK DISTRICT, NEW YORK, AUGUST - 1942.
Submitted: Recommended: Approved:
F. J. ... *...* *...*
Engineer Principal Engineer Lt. Col. Corps of Engineers
Approved for: To Accompany Specifications
CAA. Harvey F. Law (Signed) Dist. Engr. MARCH 15, 1942
Supervisor of Airports. PRO 113 113 113 113 113 113
FILE NO. A-498



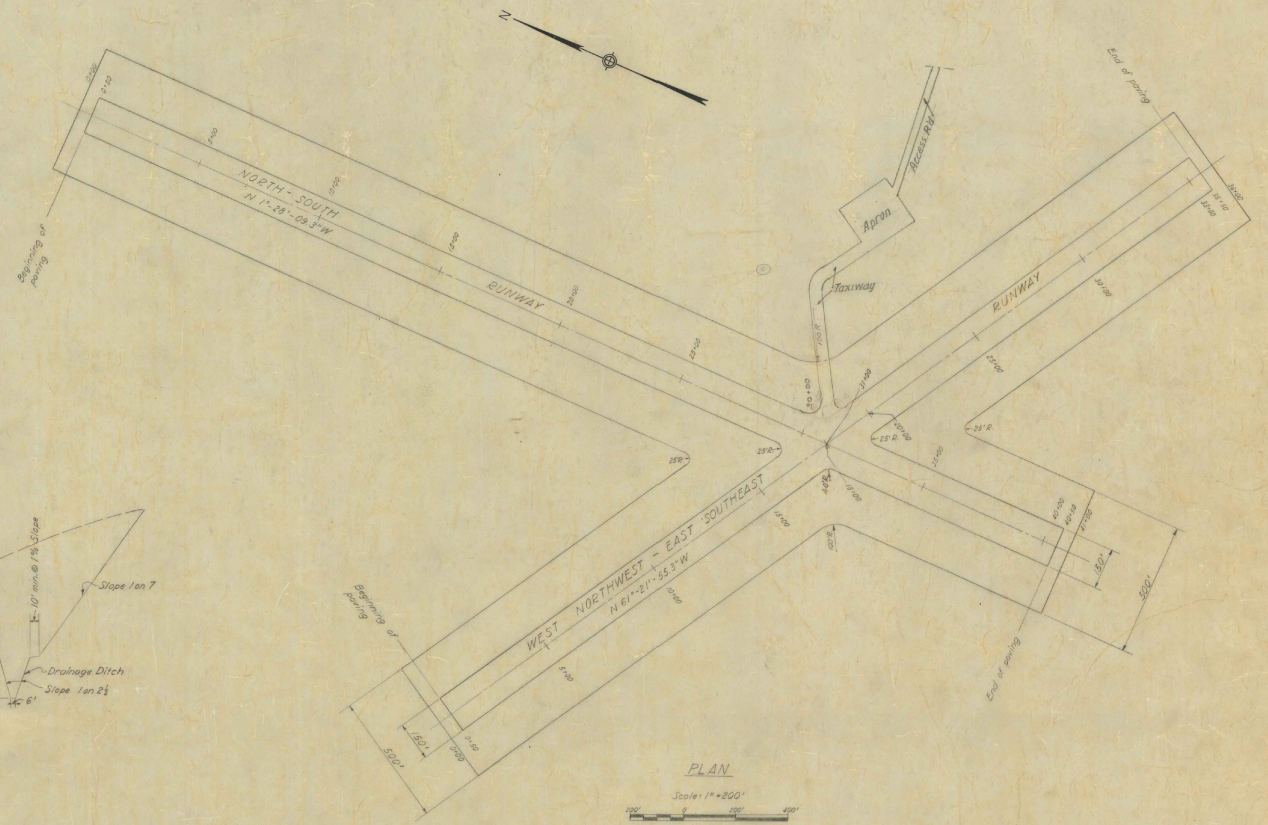
DETAIL OF PAVEMENT ALTERNATE 'A'



GUTTER - DETAIL 'A' Not to Scale



TYPICAL SECTION THROUGH RUNWAY PAVING AND LANDING STRIP Not to Scale



PLAN

Scale: 1" = 200'

NOTES:
 For grading plans see Sheets No. 4 & 5.
 For profiles see Sheets No. 6 & 7.
 For drainage details see Sheet No. 3.

AS-BUILT DRAWING
 SEPTEMBER 1943
E. W. Garbisch
 E. W. GARBISCH
 LT. COL. CORPS OF ENGINEERS
 DISTRICT ENGINEER
 CONTRACT NO. W-0217 - eng - 2918 & 2914

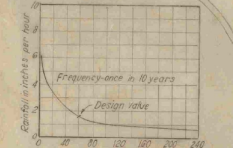
C. A. A. CONSTRUCTION PROGRAM
RUTLAND AIRPORT
 PAVING PLAN & DETAILS
 RUTLAND VERMONT
 IN 11 SHEETS SCALE: 1 IN. = 200 FT. SHEET NO. 8
 U. S. ENGINEER OFFICE, NEW YORK DISTRICT, NEW YORK, AUGUST - 1942.
 Recommended by *E. W. Garbisch* Approved by *[Signature]*
 Engineer Principal Engineer
 Approved by *Harvey F. Lee* (Signed) To Accompany Specifications Dated MARCH 18, 1942.
 Supervisor of Assets Colonel, Corps of Engineers.

12-18-43	"As-built" Revisions - J.R.W. & Co		
REV. BY	DATE	BY	DATE



ELEVATIONS OF INLET GRATINGS & DRAINAGE PIPES

N-S LANDING STRIP				W-NW-ESE LANDING STRIP			
Man. Inlet No.	Spot Elev.	Top of Inlet	Bottom of Inlet	Man. Inlet No.	Spot Elev.	Top of Inlet	Bottom of Inlet
1	846.5	774.0	774.0	43	846.5	774.0	774.0
2	846.5	774.0	774.0	44	846.5	774.0	774.0
3	846.5	774.0	774.0	45	846.5	774.0	774.0
4	846.5	774.0	774.0	46	846.5	774.0	774.0
5	846.5	774.0	774.0	47	846.5	774.0	774.0
6	846.5	774.0	774.0	48	846.5	774.0	774.0
7	846.5	774.0	774.0	49	846.5	774.0	774.0
8	846.5	774.0	774.0	50	846.5	774.0	774.0
9	846.5	774.0	774.0	51	846.5	774.0	774.0
10	846.5	774.0	774.0	52	846.5	774.0	774.0
11	846.5	774.0	774.0	53	846.5	774.0	774.0
12	846.5	774.0	774.0	54	846.5	774.0	774.0
13	846.5	774.0	774.0	55	846.5	774.0	774.0
14	846.5	774.0	774.0	56	846.5	774.0	774.0
15	846.5	774.0	774.0	57	846.5	774.0	774.0
16	846.5	774.0	774.0	58	846.5	774.0	774.0
17	846.5	774.0	774.0	59	846.5	774.0	774.0
18	846.5	774.0	774.0	60	846.5	774.0	774.0
19	846.5	774.0	774.0	61	846.5	774.0	774.0
20	846.5	774.0	774.0	62	846.5	774.0	774.0
21	846.5	774.0	774.0	63	846.5	774.0	774.0
22	846.5	774.0	774.0	64	846.5	774.0	774.0
23	846.5	774.0	774.0	65	846.5	774.0	774.0
24	846.5	774.0	774.0	66	846.5	774.0	774.0
25	846.5	774.0	774.0	67	846.5	774.0	774.0
26	846.5	774.0	774.0	68	846.5	774.0	774.0
27	846.5	774.0	774.0	69	846.5	774.0	774.0
28	846.5	774.0	774.0	70	846.5	774.0	774.0
29	846.5	774.0	774.0	71	846.5	774.0	774.0
30	846.5	774.0	774.0	72	846.5	774.0	774.0
31	846.5	774.0	774.0	73	846.5	774.0	774.0
32	846.5	774.0	774.0	74	846.5	774.0	774.0
33	846.5	774.0	774.0	75	846.5	774.0	774.0
34	846.5	774.0	774.0	76	846.5	774.0	774.0
35	846.5	774.0	774.0	77	846.5	774.0	774.0
36	846.5	774.0	774.0	78	846.5	774.0	774.0
37	846.5	774.0	774.0	79	846.5	774.0	774.0
38	846.5	774.0	774.0	80	846.5	774.0	774.0
39	846.5	774.0	774.0	81	846.5	774.0	774.0
40	846.5	774.0	774.0	82	846.5	774.0	774.0
41	846.5	774.0	774.0	83	846.5	774.0	774.0
42	846.5	774.0	774.0	84	846.5	774.0	774.0



RAINFALL INTENSITY-DURATION CURVE

Taken from "Rainfall Intensity-Frequency Data" by D.L. Yarnell, U.S. Dept. of Agriculture

Note: Drainage structures were designed by this "method" using the rainfall curve shown with runoff coefficients of 0.5 for pavement and 0.3 for turf.

Top 5' of aggregate 1 1/2" to 2" size

3/4" Labor Mat

75'-0" to E of Runway

Gravel backfill Longitudinal drain pipe, Drain varies

SECTION A-A THRU LONGITUDINAL DRAIN & GUTTER

Scale: 1" = 1'-0"

Note: Section of manholes & location of manholes see notes & details det.

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

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Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

SECTION A-A THRU LONGITUDINAL DRAIN & GUTTER

Scale: 1" = 1'-0"

Note: Section of manholes & location of manholes see notes & details det.

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

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Drop Inlet

Drop Inlet

Drop Inlet

SECTION B-B THRU LONGITUDINAL DRAIN & GUTTER

Scale: 1" = 1'-0"

Note: Section of manholes & location of manholes see notes & details det.

Drop Inlet

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Drop Inlet

Drop Inlet

SECTION C-C THRU LONGITUDINAL DRAIN & GUTTER

Scale: 1" = 1'-0"

Note: Section of manholes & location of manholes see notes & details det.

Drop Inlet

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Drop Inlet

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Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

SECTION D-D THRU LONGITUDINAL DRAIN & GUTTER

Scale: 1" = 1'-0"

Note: Section of manholes & location of manholes see notes & details det.

Drop Inlet

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Drop Inlet

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Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

SECTION E-E THRU LONGITUDINAL DRAIN & GUTTER

Scale: 1" = 1'-0"

Note: Section of manholes & location of manholes see notes & details det.

Drop Inlet

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Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

SECTION F-F THRU LONGITUDINAL DRAIN & GUTTER

Scale: 1" = 1'-0"

Note: Section of manholes & location of manholes see notes & details det.

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

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Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

SECTION G-G THRU LONGITUDINAL DRAIN & GUTTER

Scale: 1" = 1'-0"

Note: Section of manholes & location of manholes see notes & details det.

Drop Inlet

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Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

SECTION H-H THRU LONGITUDINAL DRAIN & GUTTER

Scale: 1" = 1'-0"

Note: Section of manholes & location of manholes see notes & details det.

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

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Drop Inlet

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Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

SECTION I-I THRU LONGITUDINAL DRAIN & GUTTER

Scale: 1" = 1'-0"

Note: Section of manholes & location of manholes see notes & details det.

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

Drop Inlet

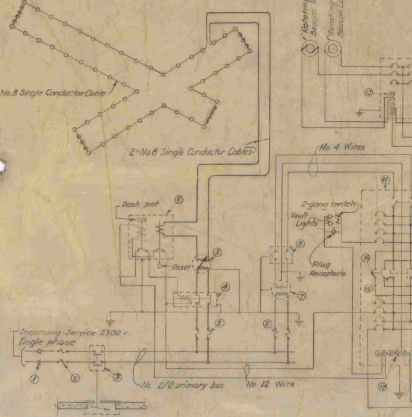
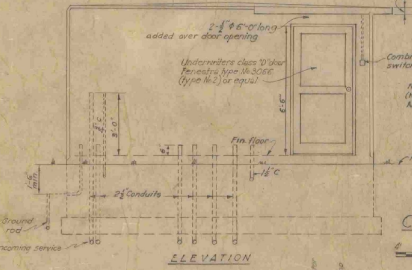
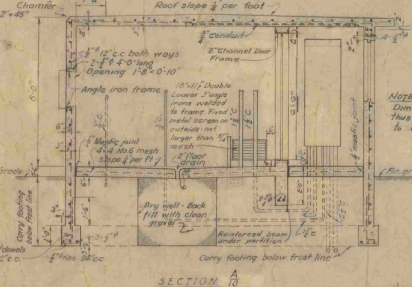
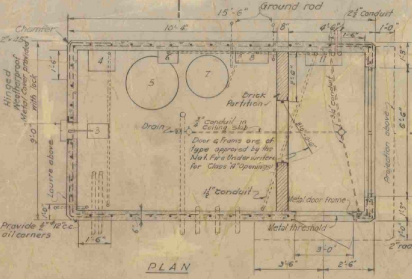
Drop Inlet

ELECTRICAL EQUIPMENT LIST (CONTROL HOUSE)

1. Pathway - Disconnecting Keys
2. Fuse Circuit - Primary
3. Main Oil Circuit Breaker - Manual Handle outside vault
4. Oil Switches - Remote Control
5. Control Current Regulator
6. Service Protective Relay
7. Distribution Transformer
8. Air Circuit Breaker - Secondary
9. Air Circuit Breaker - Panel Switch Type
10. Main panel Disconnecting Switch on circuit breaker
11. Control & Distribution Cabinet
12. Time Switch Disconnect on circuit breaker
13. Time Switch
14. Remote Control Wires to Control Tower
15. Various Remote Control Contractor for Sub-Mounting
16. Control Switch on circuit breaker
17. Electrical bus
18. Breaker Panel in weatherproof cabinet at top of Beacon Tower

AS-BUILT DRAWING
 1 SEPTEMBER 1943
E. W. Garbisch
 E. W. GARBISCH
 DISTRICT ENGINEER
 CONTRACT NO. W-1097-ENG-2918 & 2914

KEY DATE	REVISION (indicated by)	REVISION	BY	APP'D BY
4-22-43	▲	Boundary light and cable relocated	E.W.G.	J.W.D.
4-29-43	▲	Wiring relocated	E.W.G.	J.W.D.
12-14-43	▲	"As-Built" Revisions - J.R.W. & Co.	J.R.W.	J.W.D.



CONTROL HOUSE

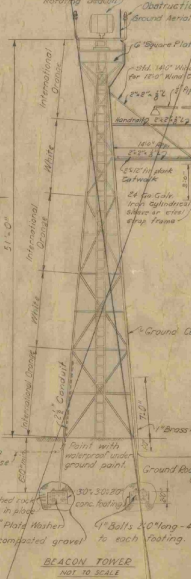
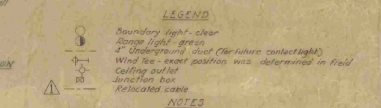
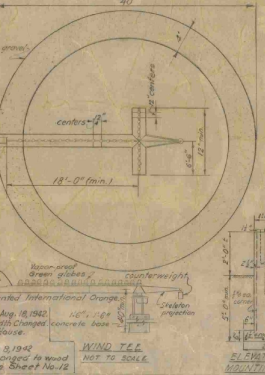
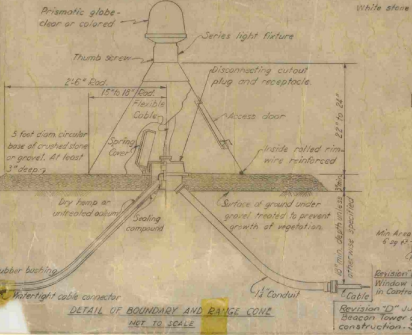
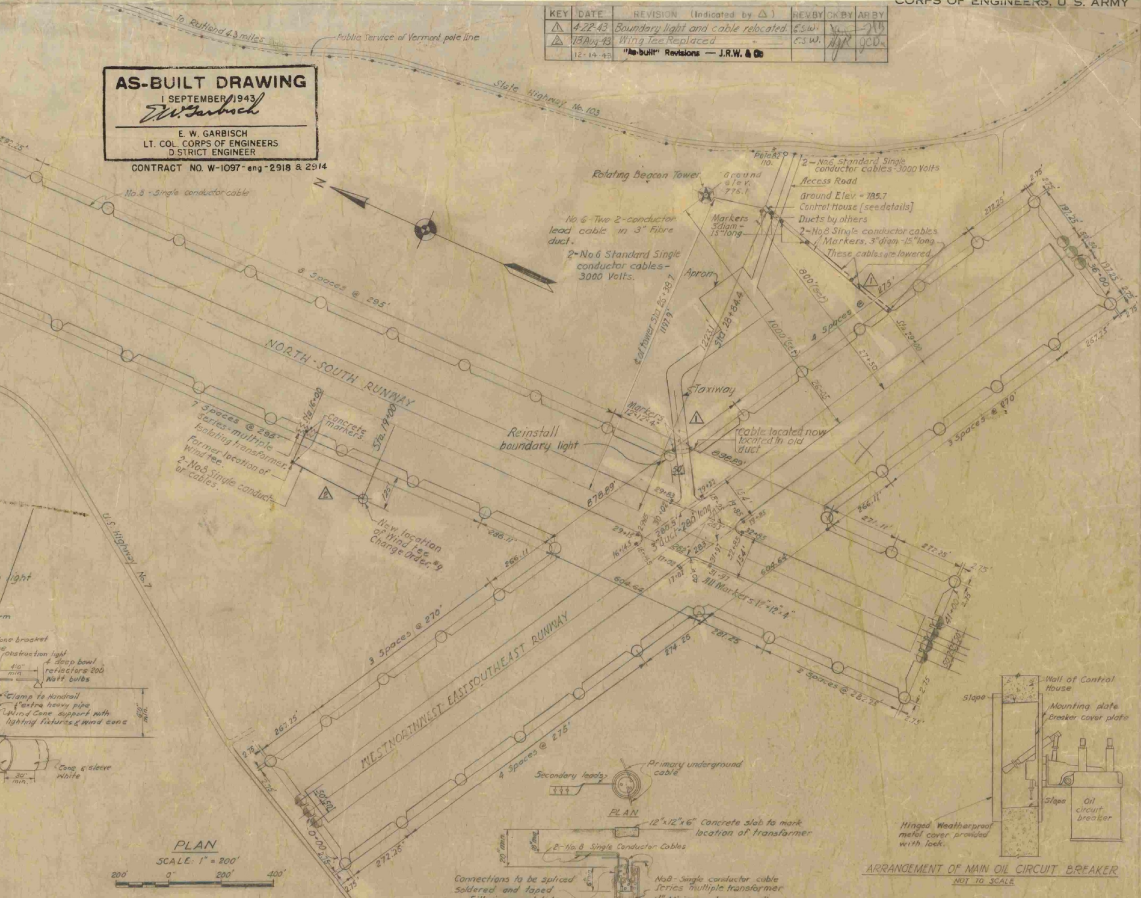


TABLE OF BELL REDUCER SIZES REQUIRED

Size of Bell	Size of Reducer
3 1/2" - 4"	1 1/2" - 2"
4" - 4 1/2"	1 1/2" - 2"
4 1/2" - 5"	1 1/2" - 2"
5" - 5 1/2"	1 1/2" - 2"
5 1/2" - 6"	1 1/2" - 2"
6" - 6 1/2"	1 1/2" - 2"
6 1/2" - 7"	1 1/2" - 2"
7" - 7 1/2"	1 1/2" - 2"
7 1/2" - 8"	1 1/2" - 2"
8" - 8 1/2"	1 1/2" - 2"
8 1/2" - 9"	1 1/2" - 2"



ARRANGEMENT OF MAIN OIL CIRCUIT BREAKER
 200 TO SCALE

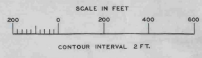
C. A. CONSTRUCTION PROGRAM
RUTLAND AIRPORT
ELECTRICAL LAYOUT & DETAILS
 VERMONT
 IN 11 SHEETS SCALE 1/4" = 100 FT. SHEET NO. 10
 U.S. ENGINEER OFFICE, NEW YORK DISTRICT, NEW YORK, AUGUST 1942.
 Submitted: [Signature] Recommended: [Signature] Approved: [Signature]
 Engineer: [Signature] Principal Engineer: [Signature] Chf. Corps of Engineers:
 Apponal to CAA: [Signature] To Accompany Specifications: [Signature]
 Date: MARCH 18, 1942
 Supervisor of Airports: [Signature]
 PROV. FILE NO. RA-41032
 FILE NO. A-501



TOPOGRAPHIC MAP
 OF
 BUTLER BROTHERS FARM & ENVIRONS
 EAST CLARENDON VT.
SITE FOR RUTLAND AIRPORT

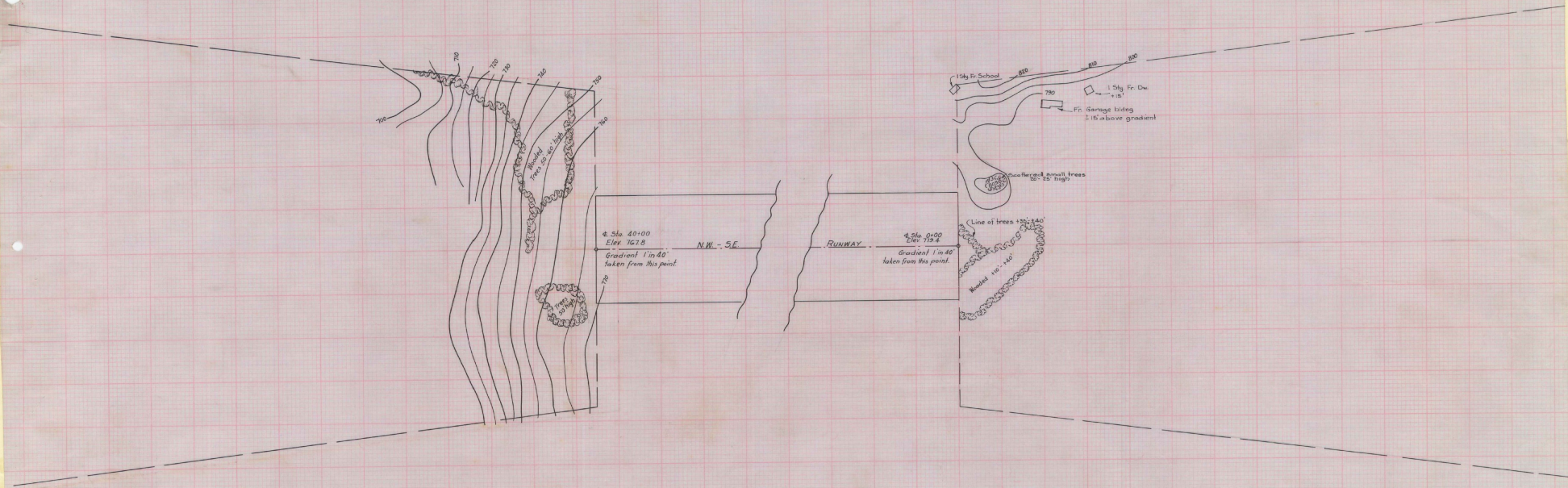
FROM SURVEYS BY
 R. A. BURDITT - RUTLAND - OCT. & NOV. 1940
 EUGENE CERUTTI - STATE PLANNING BOARD - DEC. 1940 - JAN. 1941

VERMONT STATE PLANNING BOARD
 JANUARY 1941



Added Details & Print
 from Digital Standard
 1/28/91

730' 740' 750' 760' 770' 780' 790' 800' 810'



730' 740' 750' 760' 770' 780' 790' 800' 810'

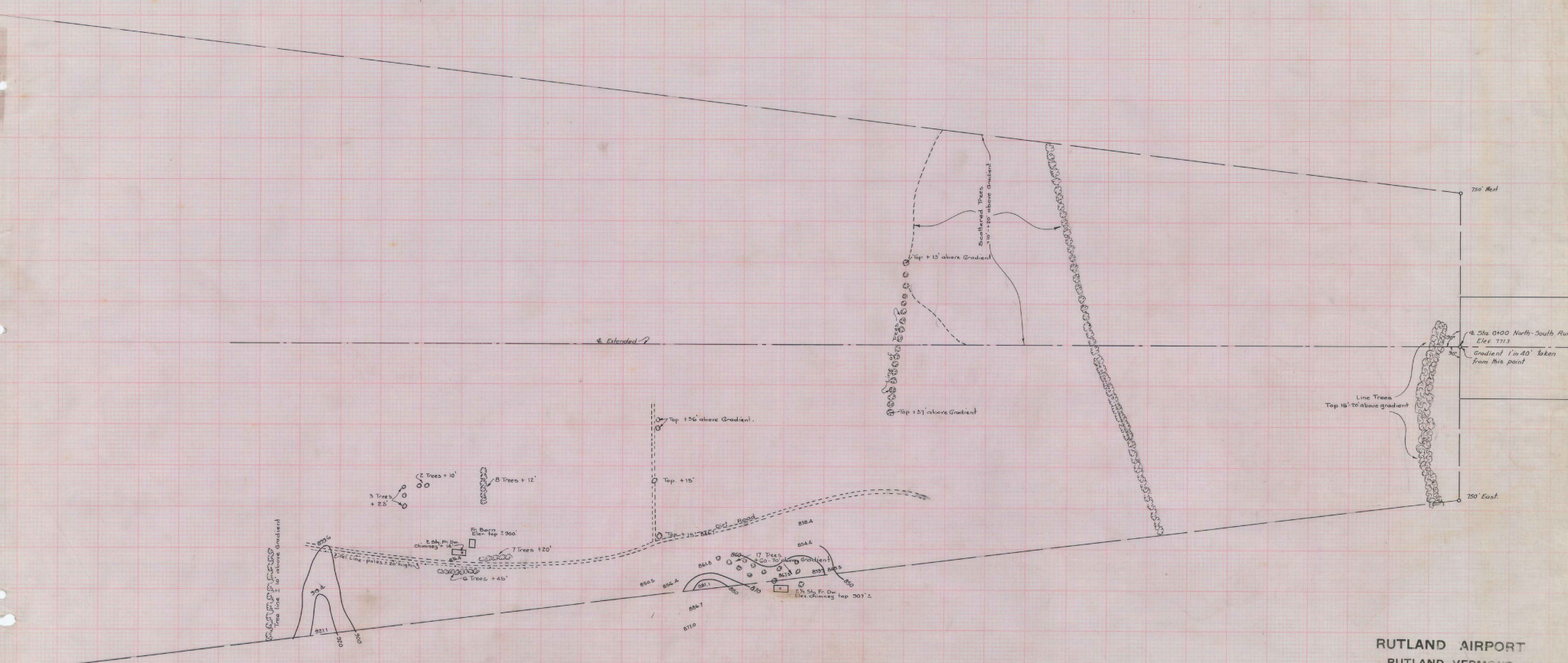
RUTLAND AIRPORT
RUTLAND, VERMONT
 APPROACHES TO NORTHWEST - SOUTHEAST RUN

SHEET NO. 1 IN 1 SHEET
 SCALE 1" = 200'
 0 200 400

NOTE
 Survey conducted by *Harold J. Mason, Civil Eng.* November 21, 1941.
 Elevations are expressed in feet and inches and refer to the plane of mean sea level at
 Sandy Hook, N. J., as determined from U.S.C. & G.S. Bench Mark No. 4, located at North
 Charleston, Vt. whose elevation is given as 2752.21 feet above M.S.L.
 Referred to as B.M. 4.

United States Engineer Office, New York District, New York
 DATE OF SURVEY NOVEMBER 14 & 15, 1941

PROV. FILE NO. RA-4-1015 FILE NO. A-48



RUTLAND AIRPORT
RUTLAND, VERMONT
 SOUTH APPROACH TO NORTH - SOUTH RUNWAY

SHEET NO. 1 IN 1 SHEET

SCALE 1" = 200'

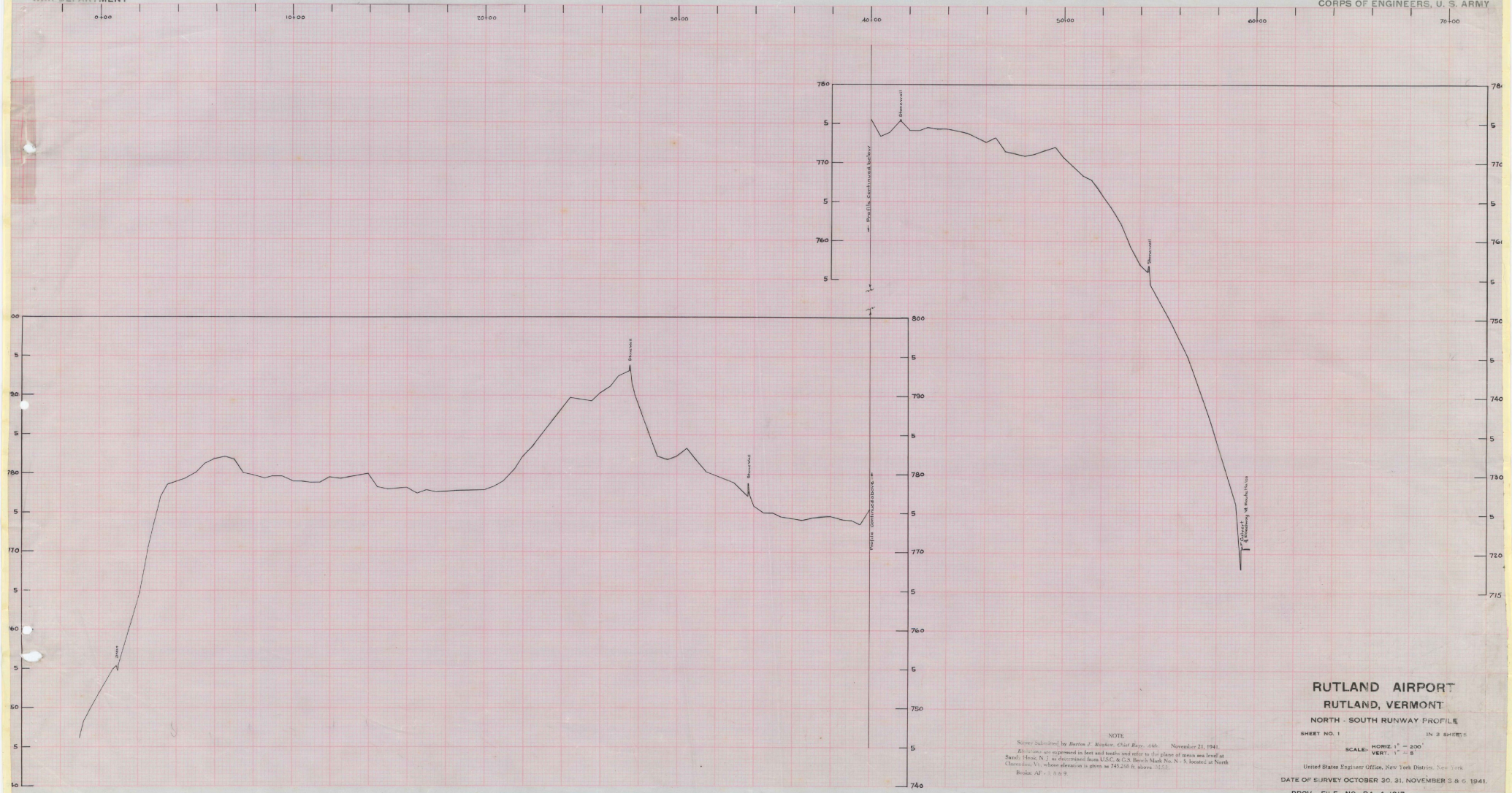
United States Engineer Office, New York, LINDSEY, New York

DATE OF SURVEY NOVEMBER 14, 1941

PROV. FILE NO. RA-4-1016 FILE NO. A-485

NOTE
 Survey conducted by Barton J. Mayhew, Civil Engr. 316, November 21, 1941.
 Elevations are expressed in feet and tenths and refer to the plane of mean sea level at Sandy Hook, N. J. as determined from C&G S. Bench Mark No. 2, located at North Chatham, Vt., whose elevation is given as 743.256 ft. above M.S.L.
 Book: AP-10.

EAST PROFILE
North - South - Runway



NOTE
Notes Submitted by Arthur J. Bishop, Chief Buyer, etc. November 21, 1941.
Elevations are as represented in feet and decimals and refer to the plane of mean sea level at
Sand Hook, N. J., as determined from U.S.C. & G.S. Bench Mark No. N. 1 located at North
Clarendon, Vt., whose elevation is given as 745.206 ft. above M.S.L.
Boston, A.F. 1939.

RUTLAND AIRPORT
RUTLAND, VERMONT
NORTH - SOUTH RUNWAY PROFILE

SHEET NO. 1 IN 3 SHEETS

SCALE: HORIZ. 1" = 200'
VERT. 1" = 5'

United States Engineers Office, New York District, New York

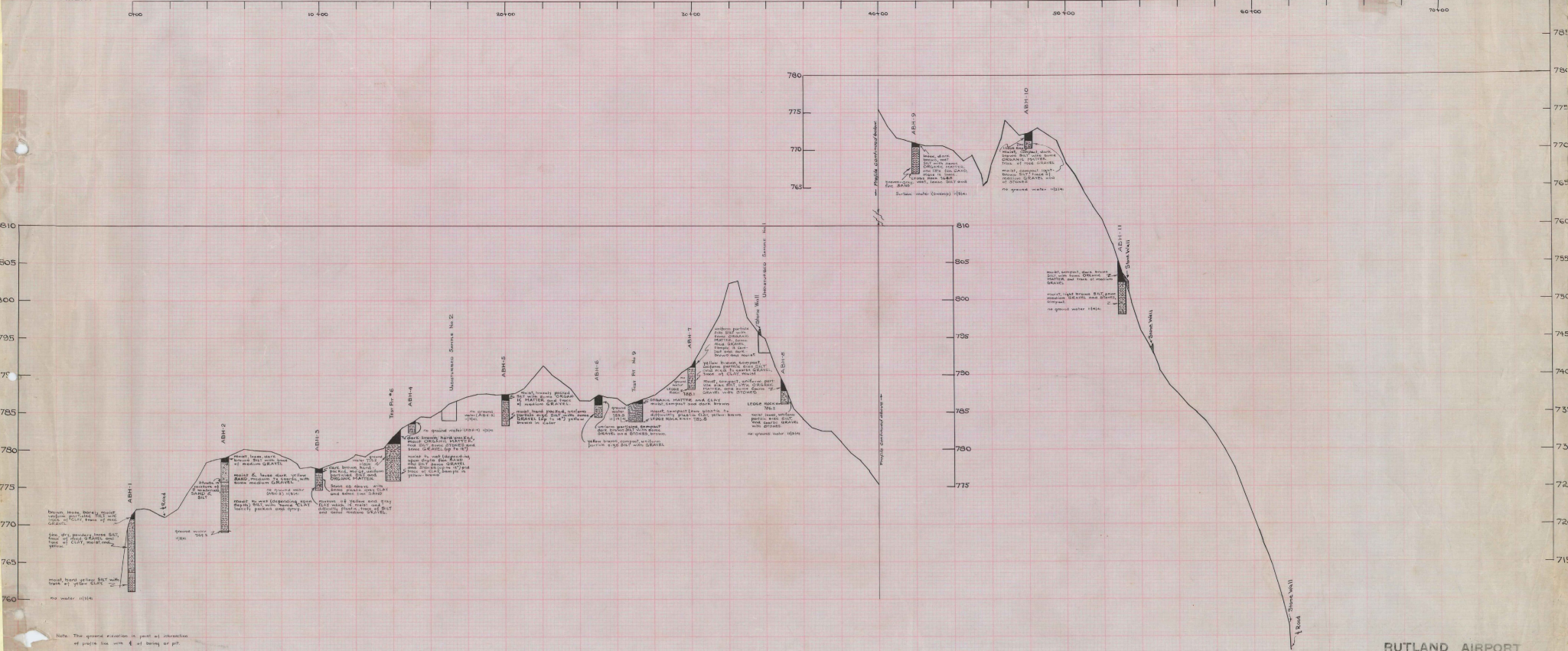
DATE OF SURVEY OCTOBER 30, 31, NOVEMBER 3 & 6, 1941.
PROV. FILE NO. RA-4-1017 FILE NO. A-486.

Sheet No. 1 of 3

WAR DEPARTMENT

OFFICE OF ENGINEERS, U. S. ARMY

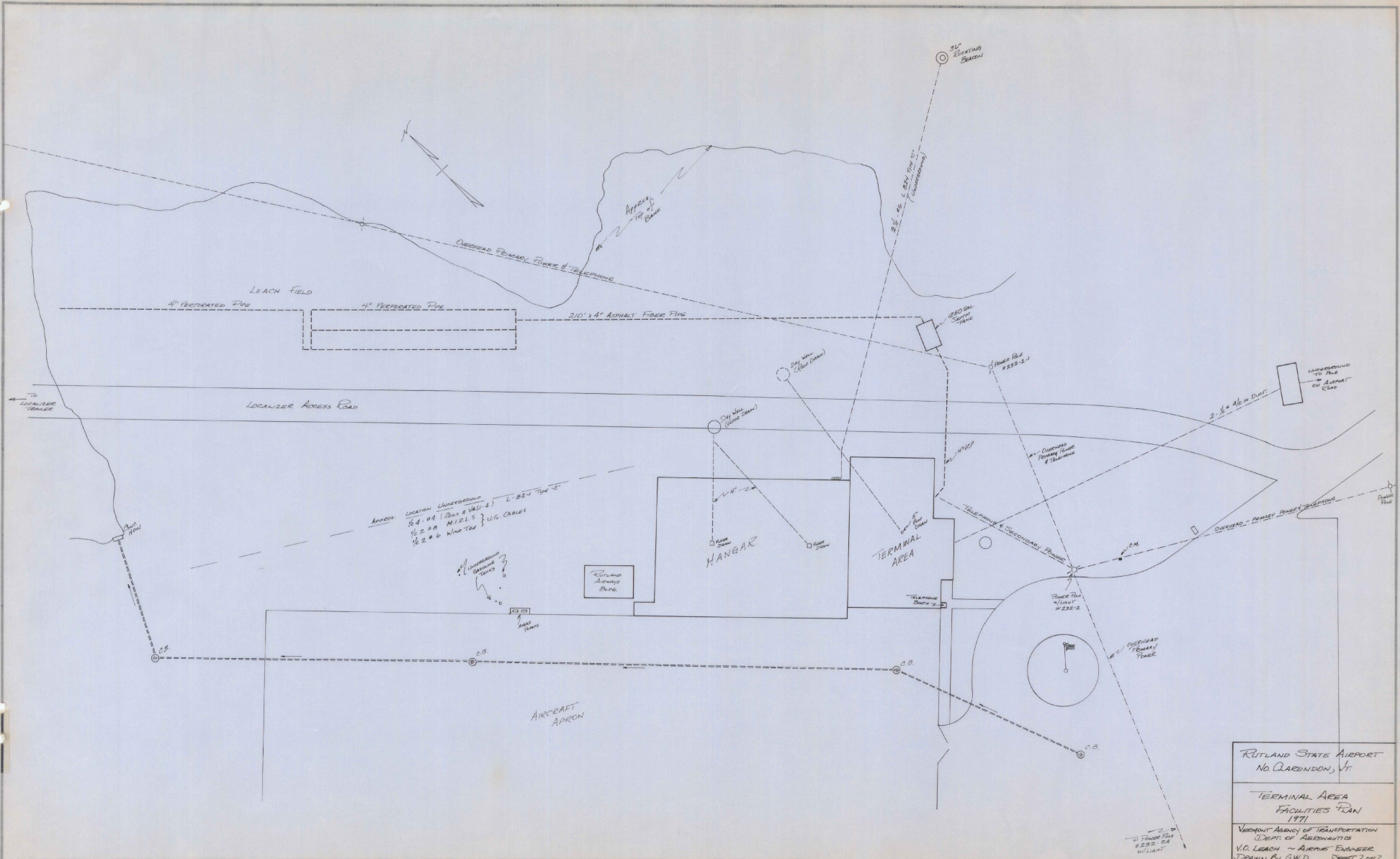
CENTER LINE PROFILE
NORTH-SOUTH - RUNWAY



Note: This ground elevation is part of observation of profile line with $\frac{1}{2}$ of being or pit.

NOTE
 Survey Submitted by Barton J. Hinkle, Field Engineer, November 21, 1941.
 Elevations are referenced to feet and meters and refer to the plane of mean sea level at
 Mean High Water (MHW) as determined from U.S.C. & G.S. Bench Mark No. 1, located at North
 Ferrisburgh, Vt., whose elevation is given as 752.268 ft above M.S.L.
 Sheet No 2 of 3

RUTLAND AIRPORT
RUTLAND, VERMONT
 NORTH - SOUTH RUNWAY PROFILE & BORINGS
 SHEET NO. 2 IN 3 SHEETS
 SCALE: HORIZ 1" = 300'
 VERT 1" = 5'
 United States Engineer Office, New York District, New York
 DATE OF SURVEY: OCTOBER 30, 31; NOVEMBER 3 & 6, 1941.
 PROV. FILE NO. RA-4-108 FILE NO. A-487.
 RUTLAND 7

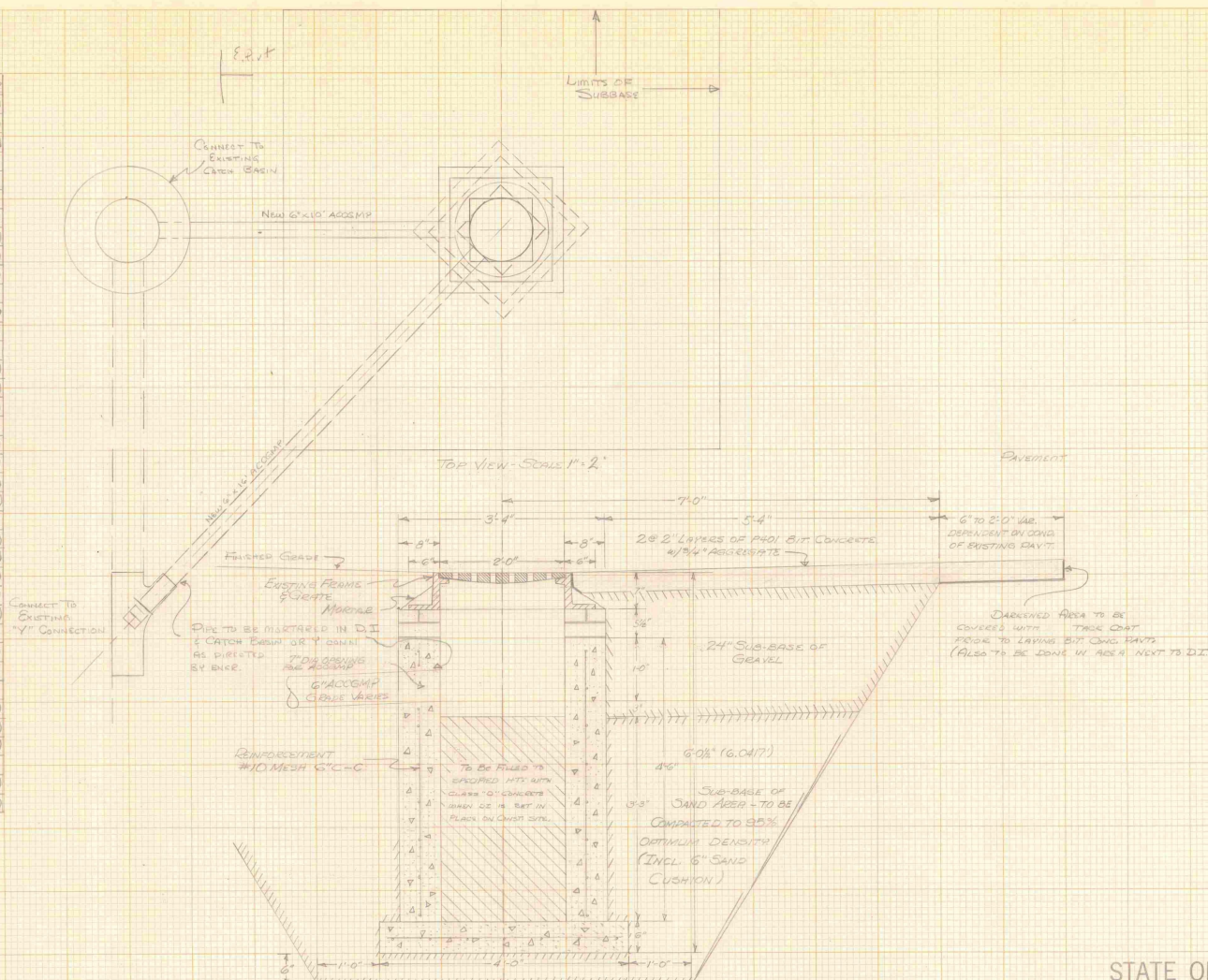


RUTLAND STATE AIRPORT
NO. QUARRENDA, VT

TERMINAL AREA
FACILITIES PLAN
1971

VERMONT AGENCY OF TRANSPORTATION
DEPT. OF AERONAUTICS
V.L. LEACH - AIRPORT ENGINEER
DRAWN BY G.W.D. SHEET 2 OF 2

DI#	STATION	FINISHED GRADE	DI INVERT	MIN INVERT	SP. CONC. GWT	LENGTH ACCOMP
2	39+57	780.10	778.10		774.4	6"x16' (.06450)
3	37+20	781.23	779.23		776.3	6"x10' (.06450)
5	35+22.5	782.06	780.06		776.2	6"x16' (.06450)
6	33+21	783.17	781.17		778.9	6"x10' (.06450)
8	31+22	784.05	782.05		777.8	6"x16' (.06450)
9	29+21	785.16	783.16		779.9	6"x10' (.06450)
11	27+2.5	785.93	783.93		779.0	6"x16' (.06450)
19	25+18.5	786.21	784.21	781.2		6"x10' (.06450)
17	23+20	785.95	783.95		779.8	6"x16' (.06450)
15	21+21	785.53	783.53	780.7		6"x10' (.06450)
13	19+21	785.18	783.18		779.2	6"x16' (.06450)
18	17+21	784.44	782.44	779.8		6"x10' (.06450)
20	15+21	784.52	782.52	779.0		6"x16' (.06450)
21	13+20	784.03	782.03	780.5		6"x10' (.06450)
24	11+23	784.15	782.15	780.3		6"x10' (.06450)
25	9+25	783.45	781.45	780.6		6"x10' (.06450)
27	7+73	783.11	781.11	779.2		6"x16' (.06450)
28	5+73	782.49	780.49	779.2		6"x10' (.06450)
30	3+73	781.65	779.65	777.0		6"x16' (.06450)
34	3+73	781.52	779.52	776.0		6"x16' (.06450)
36	5+73	782.17	780.17	779.5		6"x10' (.06450)
37	7+73	782.81	780.81	776.7		6"x16' (.06450)
39	9+72.5	783.36	781.36	780.1		6"x10' (.06450)
40	11+00	784.05	782.05	781.2		6"x10' (.06450)
43	13+20	784.44	782.44	781.7		6"x10' (.06450)
45	15+21	784.71	782.71	780.9		6"x10' (.06450)
47	17+21	784.94	782.94	779.6		6"x16' (.06450)
48	19+21	785.34	783.34	781.3		6"x10' (.06450)
50	21+21	785.55	783.55	780.0		6"x16' (.06450)
51	23+20	785.16	784.16	782.9		6"x10' (.06450)
53	25+18.5	786.31	784.31	780.7		6"x16' (.06450)
54	27+19.5	786.05	784.05	782.2		6"x10' (.06450)
56	29+21	785.05	783.05	779.9		6"x16' (.06450)
57	31+22	784.04	782.04	780.7		6"x10' (.06450)
59	33+21	783.09	781.09	778.3		6"x16' (.06450)
60	35+20.5	782.05	780.05	779.2		6"x10' (.06450)
62	37+20	781.48	779.48	776.1		6"x16' (.06450)
63	39+57	780.00	778.00	771.0		6"x10' (.06450)

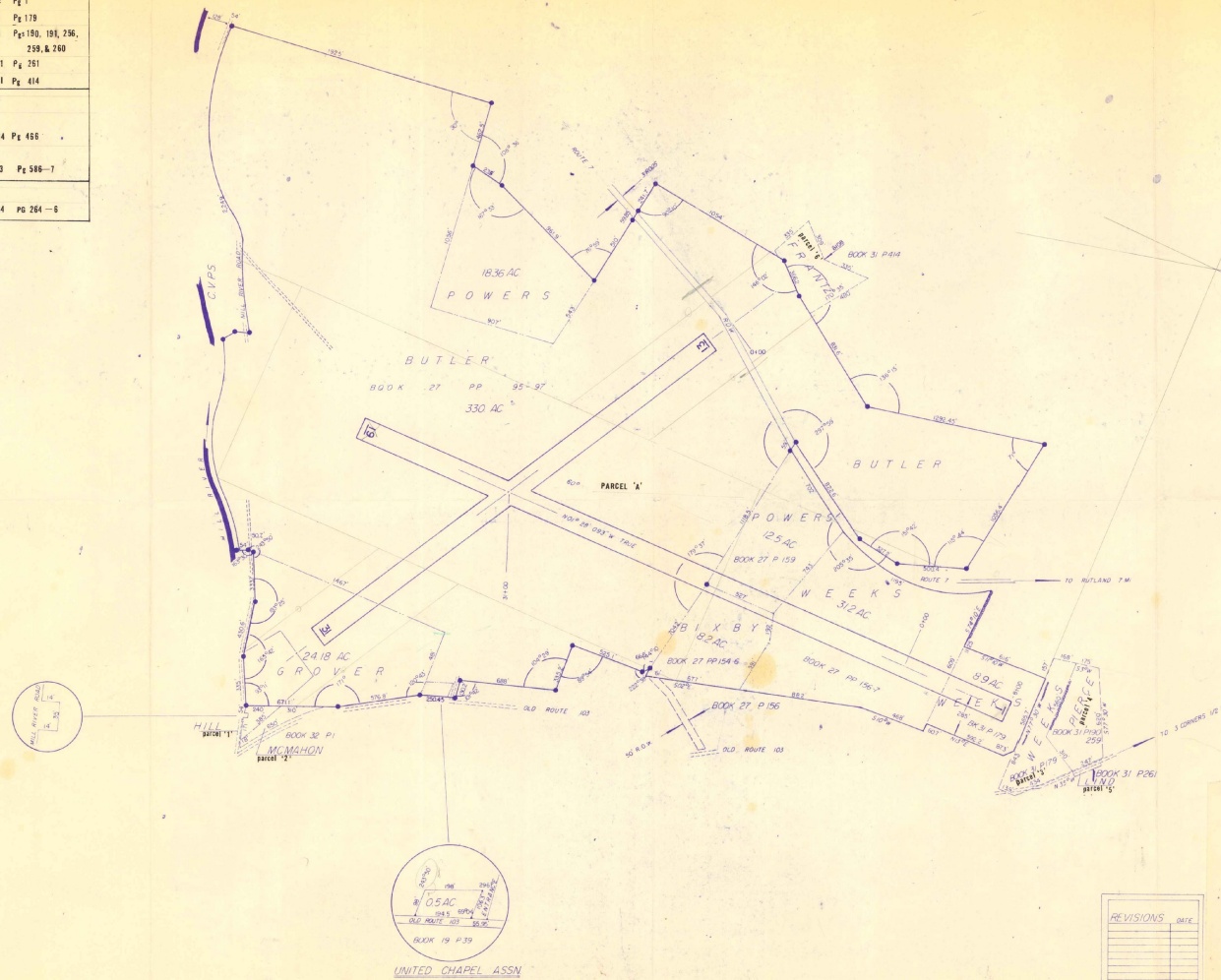


PRECAST DEEP INLET
 SITS 225 (ESSEX ST.)
 AS CONSTRUCTED BY S.T. GEORGE & COMPANY, INC.
 SCALE 1"=1' HORIZ.
 1"=1' VERT.

STATE OF VERMONT
 PRELIMINARY PLANS

RITLAND ADAP 6-50-0015-01
 DRAWN BY R. KEE 5-71
 G. SHEPARDSON - PROJECT ENGINEER

PARCEL NO.	DESCRIPTION — GRANTOR	RECORDED
AVIGATION EASEMENTS		
1	A & I HILL	Bk 32 Pg 1
2	MCMAHON	Bk 32 Pg 1
3	T S WEEKS	Bk 31 Pg 179
4	T PIERCE	Bk 31 Pgs 190, 191, 206, 299, & 290
5	LIND	Bk 31 Pg 281
6	VK FRANTZ	Bk 31 Pg 414
NAVIGATIONAL AID PARCELS		
A A	TOWN OF PITTSFORD — NDB F & M PARKER — LEASE	Bk 64 Pg 456
B B	TOWN OF RUTLAND — LFM CVPS CORP — LEASE	Rk 23 Pg 586-7
AIRPORT		
A	CITY OF RUTLAND	Bk 34 Pg 264-6



**Rutland State Airport
Clarendon, Vermont**

EXHIBIT 'A'

REVISIONS	DATE

VERMONT DEPARTMENT OF AERONAUTICS
MONTPELIER, VERMONT

SCALE 1" = 400'

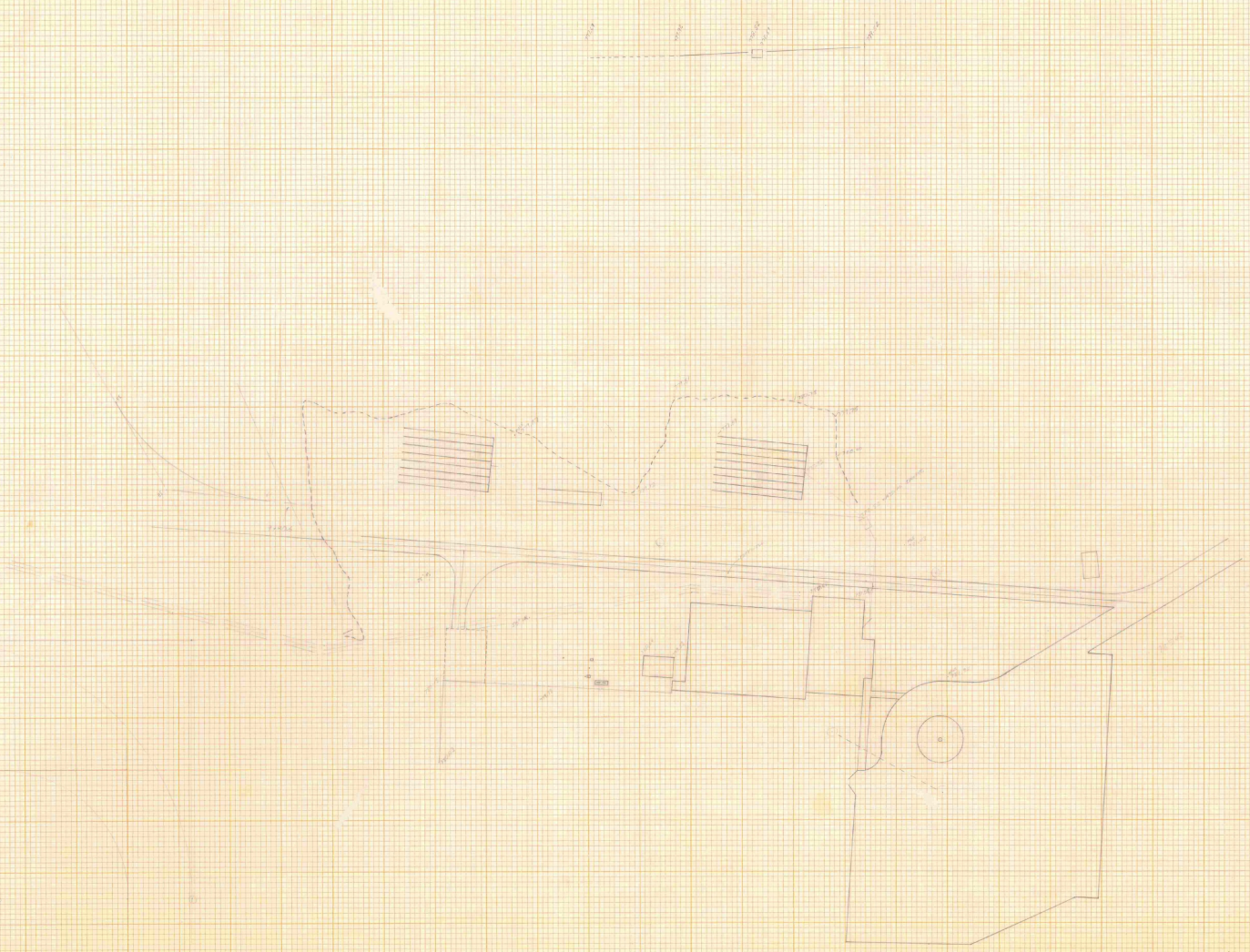
1771

PLAN

1771

1771

1771

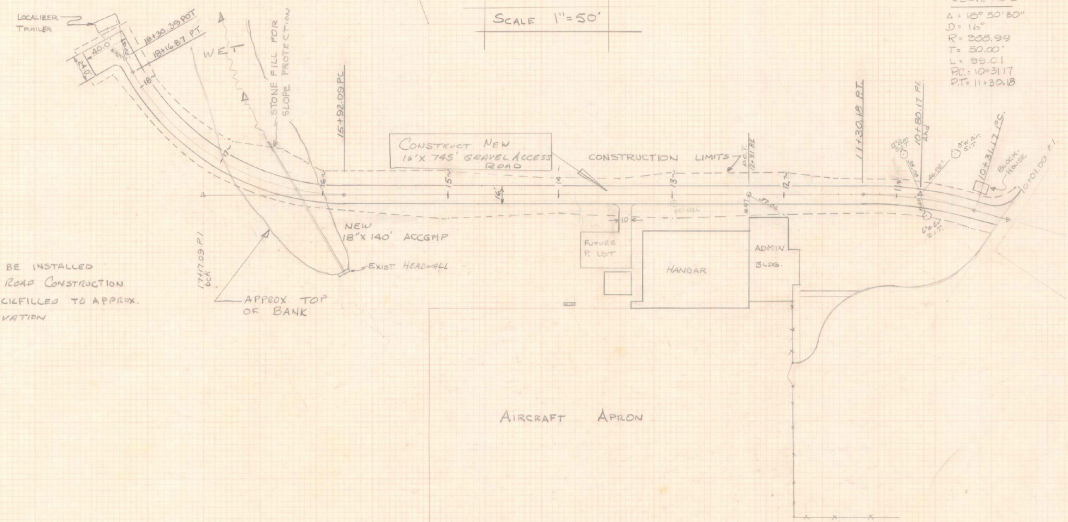


THIS PLAN FOR ACCESS ROAD DESIGN ONLY

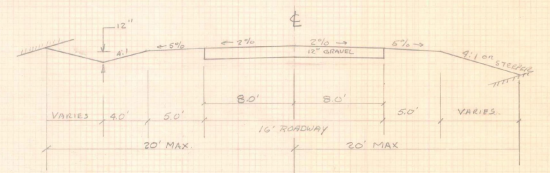
CURVE No 2
 Δ = 59°45'
 D = 267.54'
 R = 177.15'
 T = 126.00'
 L = 224.78'
 P.C. = 15+92.23
 P.T. = 16+18.57

CURVE No 1
 Δ = 15°20'50"
 D = 150'
 R = 205.99'
 T = 50.20'
 L = 95.21'
 P.C. = 10+31.17
 P.T. = 11+26.18

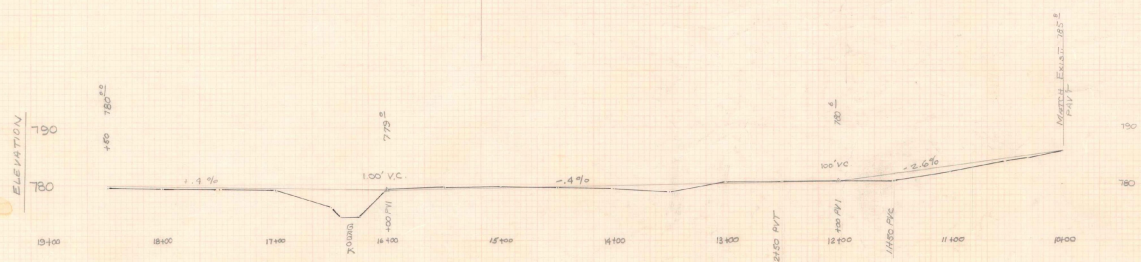
SCALE 1" = 50'



NOTE:
 NEW ACCMHP TO BE INSTALLED PRIOR TO ACCESS ROAD CONSTRUCTION PIPE TO BE BACKFILLED TO APPROX SURROUNDING ELEVATION

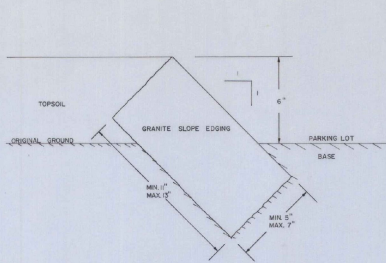


ACCESS ROAD
 TYPICAL
 1" = 50'

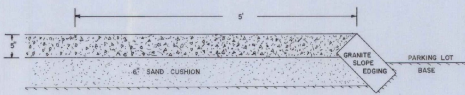


PROFILE
 1" = 50'

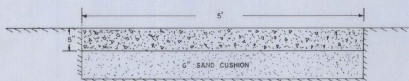
RUTLAND STATE AIRPORT CLARENDON, VERMONT	
ACCESS ROAD TO LOCALIZER	
VERMONT AGENCY OF TRANSPORTATION DEPARTMENT OF AERONAUTICS	
V.D. LEACH SHEET 1/2	AIRPORT ENGINEERING SCALE 1" = 50'



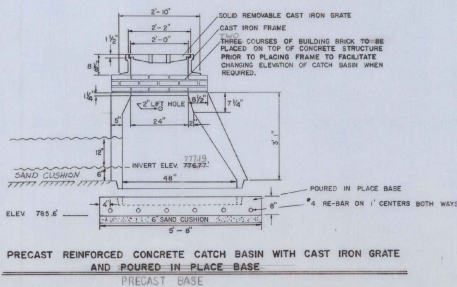
GRANITE SLOPE EDGING DETAIL



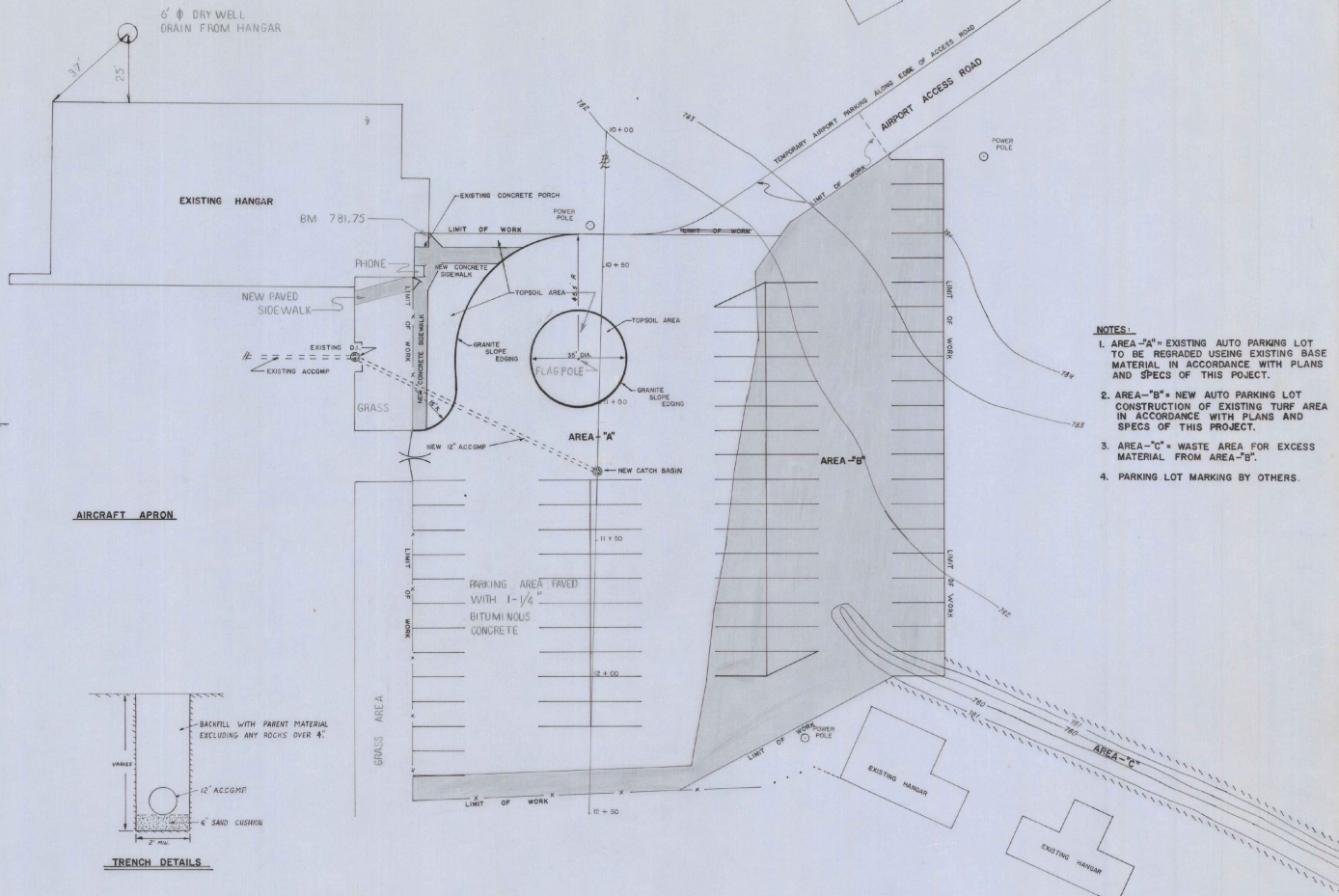
POURED IN PLACE CONCRETE SIDEWALK DETAIL



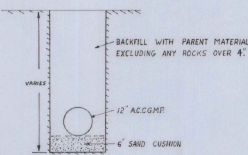
POURED IN PLACE CONCRETE SIDEWALK CROSS SECTION



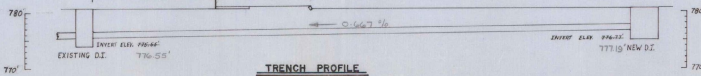
PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE AND POURED IN PLACE BASE



- NOTES:**
1. AREA-"A" = EXISTING AUTO PARKING LOT TO BE REGRADED USING EXISTING BASE MATERIAL IN ACCORDANCE WITH PLANS AND SPECS OF THIS PROJECT.
 2. AREA-"B" = NEW AUTO PARKING LOT CONSTRUCTION OF EXISTING TURF AREA IN ACCORDANCE WITH PLANS AND SPECS OF THIS PROJECT.
 3. AREA-"C" = WASTE AREA FOR EXCESS MATERIAL FROM AREA-"B".
 4. PARKING LOT MARKING BY OTHERS.



TRENCH DETAILS



TRENCH PROFILE

**RUTLAND STATE AIRPORT
NORTH CLARENDON, VT.**

PARKING LOT EXPANSION

VERMONT AERONAUTICS BOARD
MONTPELIER, VERMONT

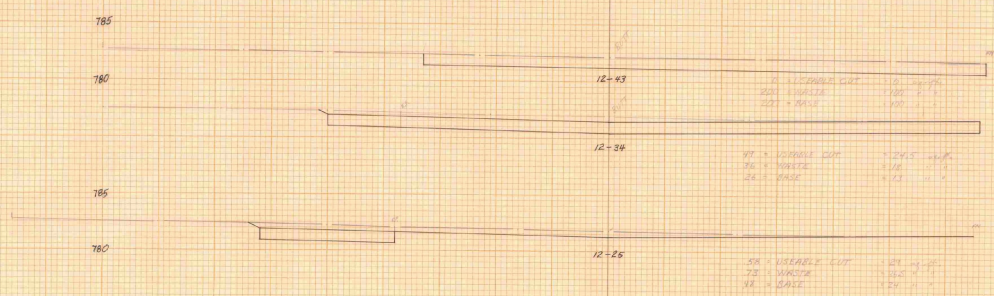
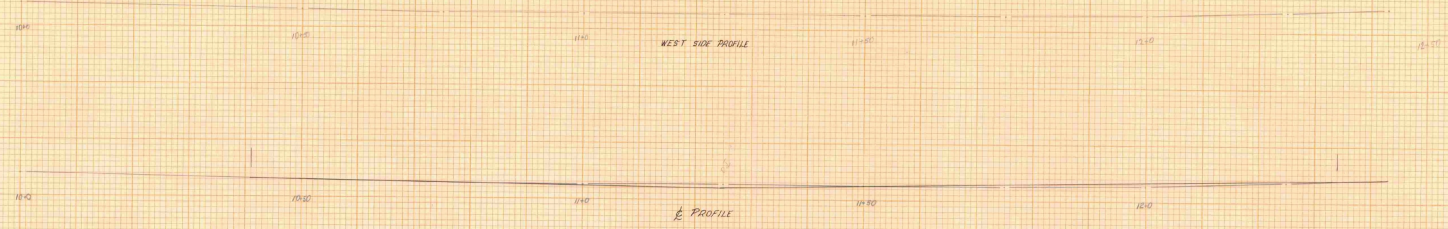
SCALE
1" = 20'

AS BUILT PLANS
Spill & Debris 10-17-73

GW DAMICO RESIDENT ENGINEER

SURVEYED BY: V.A.B. DATE: 3-28-73
DRAWN BY: M. YATES DATE: 7-23-73
TRACED BY: _____ DATE: _____

PROJ. NO. _____
SHEET 1 OF _____

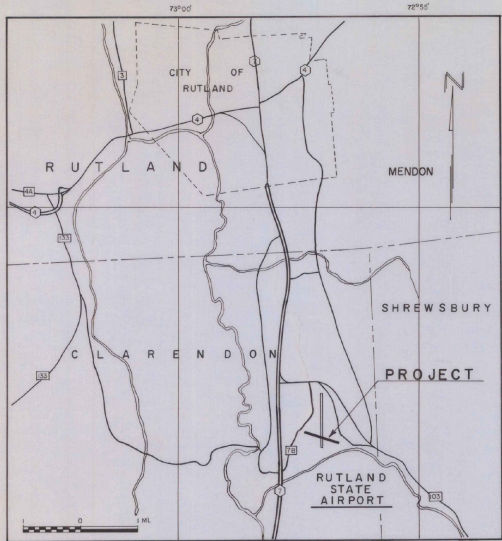


EARTHWORKS								
STATION	GRADE	DIST.	WASTE AREA	WASTE CU. YDS.	USEABLE CUT AREA	CUT CU. YDS.	BASE AREA	BASE CU. YDS.
10+00	782.00		10				10.0	
10+38	781.70	38		49.3				49.3
10+38	781.70	BUTT			60.0		60.0	
10+38	781.70		12					60.0
10+50	781.60		61.5		27.0	0.0	6.7	29.2
10+75	781.40	25		83.5		67.1	23.1	67.8
11+00	781.20	25		98.5		84.3	20.0	69.2
11+00	781.20	25		98.5		98.5	32.0	74.5
11+25	781.20	25		95.0		89.6	38.4	70.4
11+50	781.22	25		80.5		81.3	35.6	73.4
11+75	781.20	25		73.0		71.1	27.8	76.9
11+75	781.20	22		73.0		88.8	34.0	85.0
11+77	781.63		145.0				340	810
11+77	781.63	BUTT			118.0		54.0	68.0
11+77	781.63		3			12.7	3.3	7.3
12+00	781.66		2.5		111.0		24.5	64.0
12+25	781.66	25		36.5		68.3	24.8	40.7
12+34	782.00	9		18.0		9.1	8.9	6.2
12+34	782.00	BUTT			145.5			116.0
12+43	782.00	9		100.0		40.9		36.0
TOTAL				689.5		220.5		596.4
TOTAL		(125) Fill Factor		689.5		275.6		745.5

NOTE: USEABLE CUT FROM EXISTING PARKING LOT #8 BE USED AS BASE IN AREA 8.

AS BUILT PLANS
 BY Amel W. D'Amico PROJECT ENGINEER
 DATE April 17, 1974

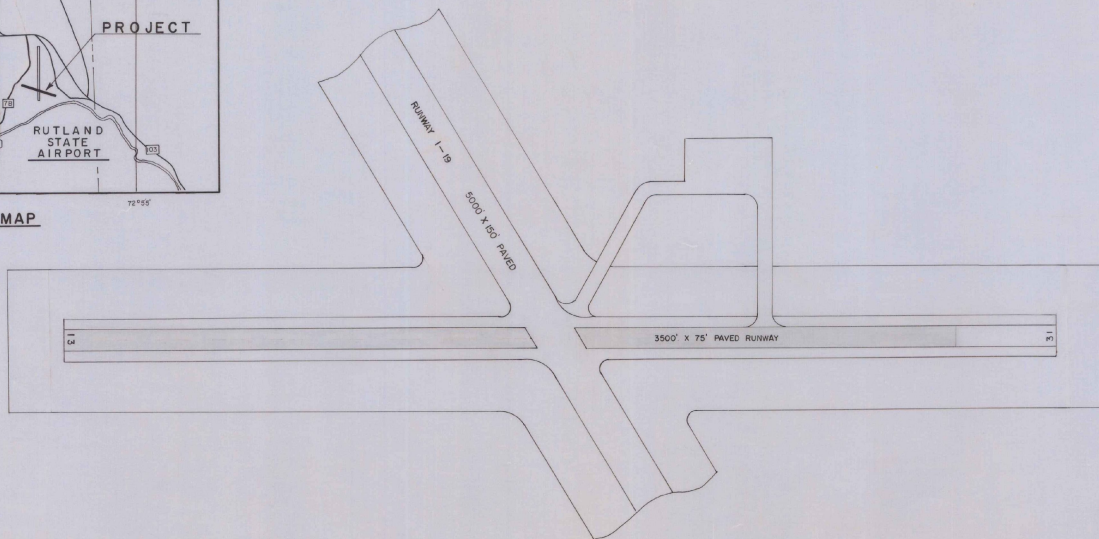
ROUTE 1 STATE AIRPORT
 NORTH CLARENDON, VERMONT
 PARKING LOT EXPANSION
 VERMONT AERONAUTICS BOARD
 MONTPELIER, VERMONT



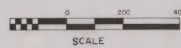
LOCATION MAP



ITEM NO.	ITEM OF WORK	UNIT	EST QUANTITY
1	EMULSIFIED ASPHALT FOR TACK COAT (UNDILUTED)	GAL.	465
2	EMULSIFIED ASPHALT FOR SLURRY COAT (UNDILUTED)	GAL.	6,104
3	MINERAL AGGREGATE	TON	156



AREA TO BE SLURRY SEALED.



SCALE

RUTLAND STATE AIRPORT
RUTLAND, VERMONT

SLURRY SEAL

VERMONT AERONAUTICS BOARD
MONTPELIER, VT.

AIRPORT ENGR. *Will O. Leach Jr.*
DATE *30 MAY 1975*

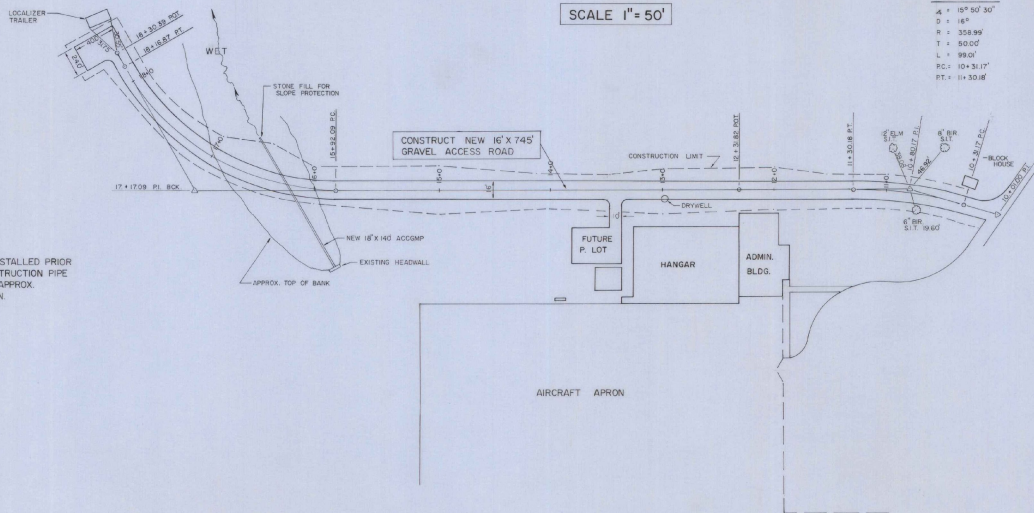
SCALE 1" = 200' M.L.Y.

THIS PLAN FOR ACCESS ROAD DESIGN ONLY

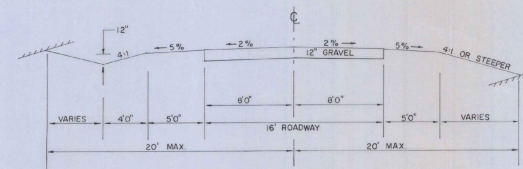
SCALE 1" = 50'

CURVE NO. 2
 Δ = 99° 43'
 D = 265.34'
 R = 227.70'
 T = 185.00'
 L = 224.76'
 PC = 15+92.09
 PT = 18+16.87

CURVE NO. 1
 Δ = 18° 50' 30"
 D = 165'
 R = 358.99'
 T = 50.00'
 L = 99.00'
 PC = 10+31.17'
 PT = 11+30.18'



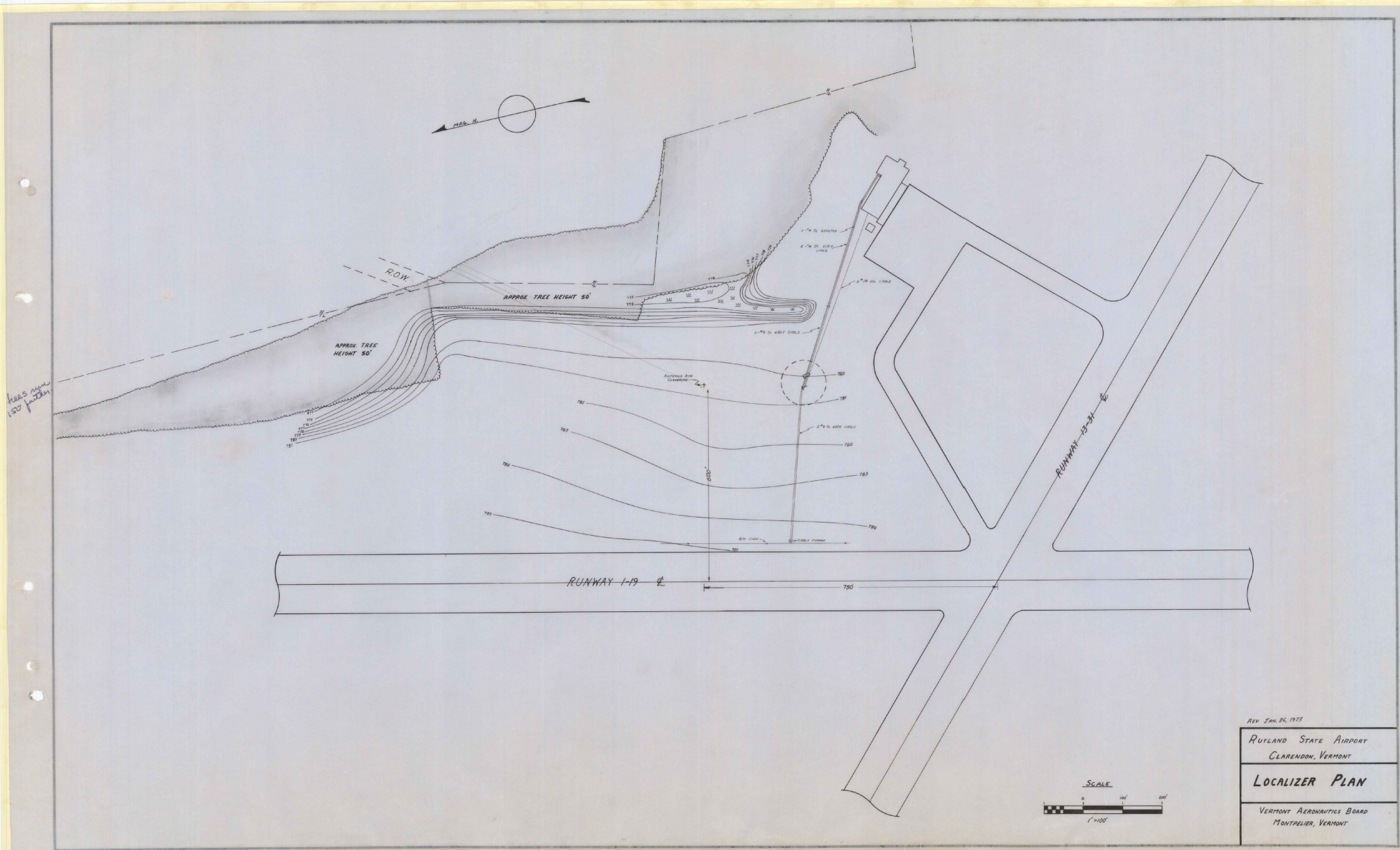
NOTE
 NEW ACCOMP TO BE INSTALLED PRIOR TO ACCESS ROAD CONSTRUCTION PIPE TO BE BACKFILLED TO APPROX. SURROUNDING ELEVATION.



ACCESS ROAD
 TYPICAL
 1" = 50'

19+00 18+00 17+00 16+00 15+00 14+00 13+00 12+00 11+00 10+00

PROFILE
 1" = 50'



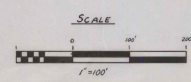
Keep clear
150' width

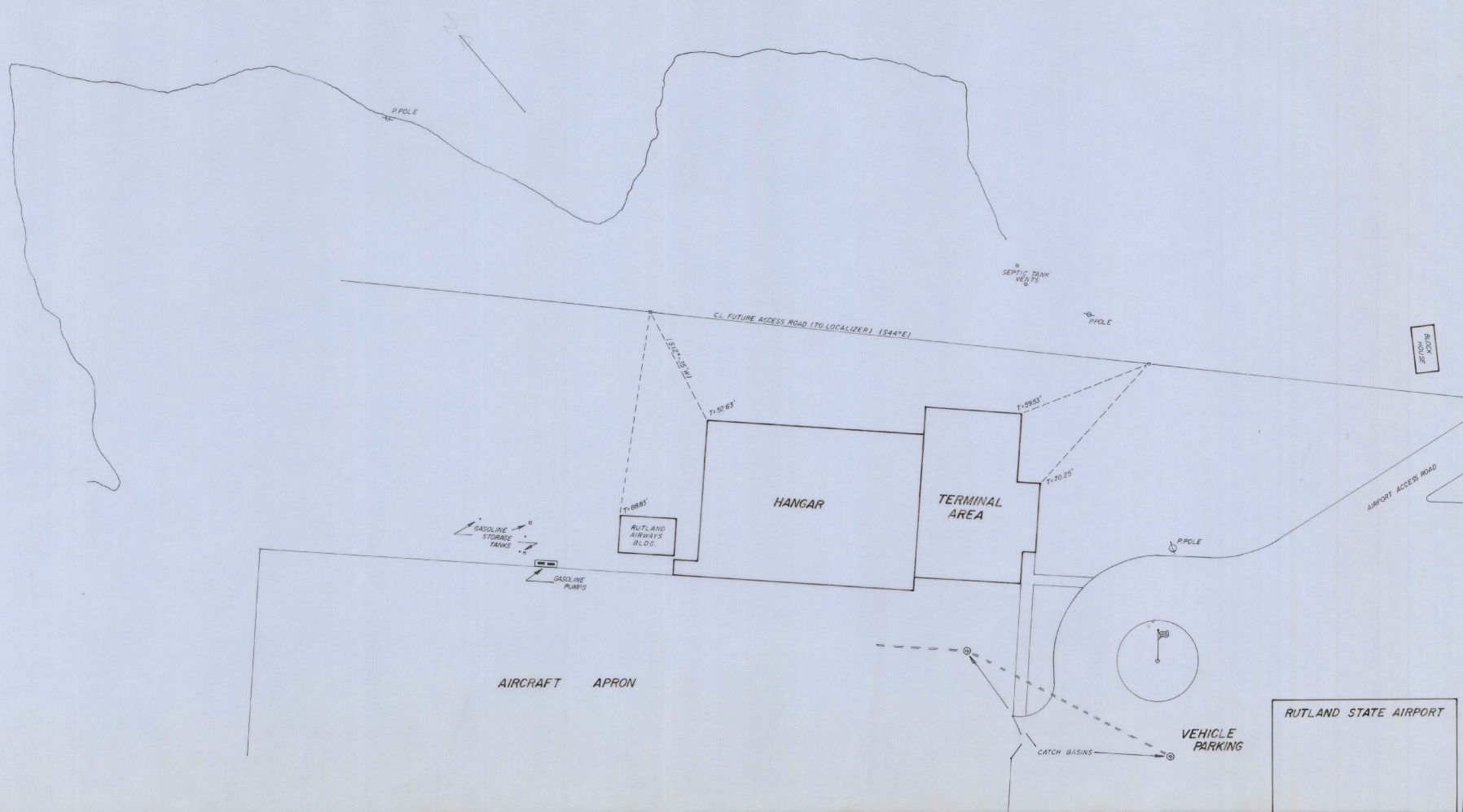
REV. JAN. 26, 1973

RUTLAND STATE AIRPORT
CLARENDON, VERMONT

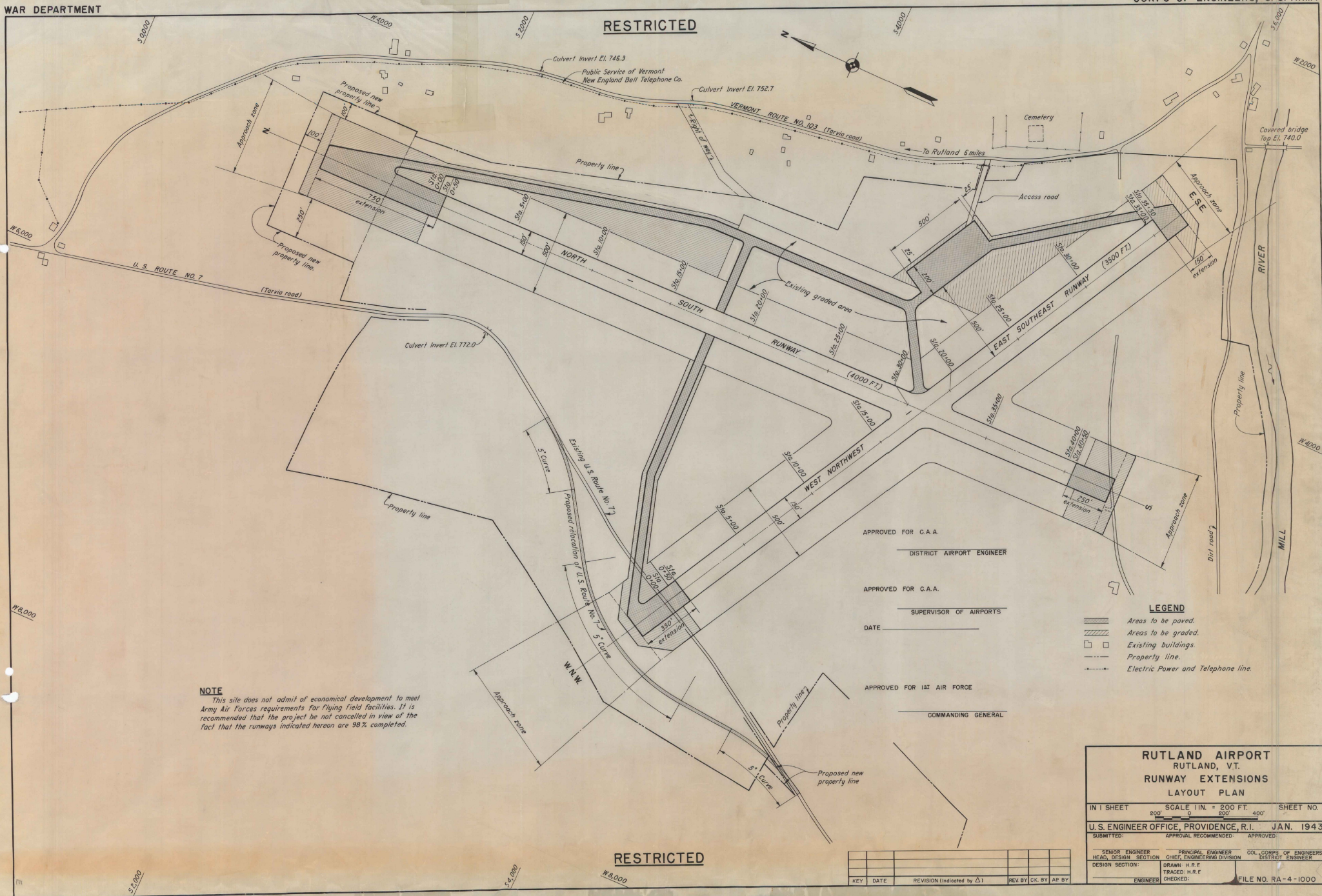
LOCALIZER PLAN

VERMONT AERONAUTICS BOARD
MONTPELIER, VERMONT





RESTRICTED



NOTE
 This site does not admit of economical development to meet Army Air Forces requirements for flying field facilities. It is recommended that the project be not concurred in view of the fact that the runways indicated hereon are 98% completed.

APPROVED FOR C.A.A.

 DISTRICT AIRPORT ENGINEER

APPROVED FOR C.A.A.

 SUPERVISOR OF AIRPORTS

DATE _____

APPROVED FOR 1st AIR FORCE

 COMMANDING GENERAL

LEGEND

- Areas to be paved.
- Areas to be graded.
- Existing buildings.
- Property line.
- Electric Power and Telephone line.

RUTLAND AIRPORT
 RUTLAND, VT.
RUNWAY EXTENSIONS
 LAYOUT PLAN

IN 1 SHEET SCALE 1 IN. = 200 FT. SHEET NO. 1
 200' 0 200' 400'

U. S. ENGINEER OFFICE, PROVIDENCE, R.I. JAN. 1943

SUBMITTED: _____ APPROVAL RECOMMENDED: _____ APPROVED: _____

SENIOR ENGINEER HEAD DESIGN SECTION PRINCIPAL ENGINEER CHIEF ENGINEERING DIVISION COL. CORPS OF ENGINEERS
 DESIGN SECTION: DRAWN H.R.F. TRACED H.R.F. CHECKED: _____

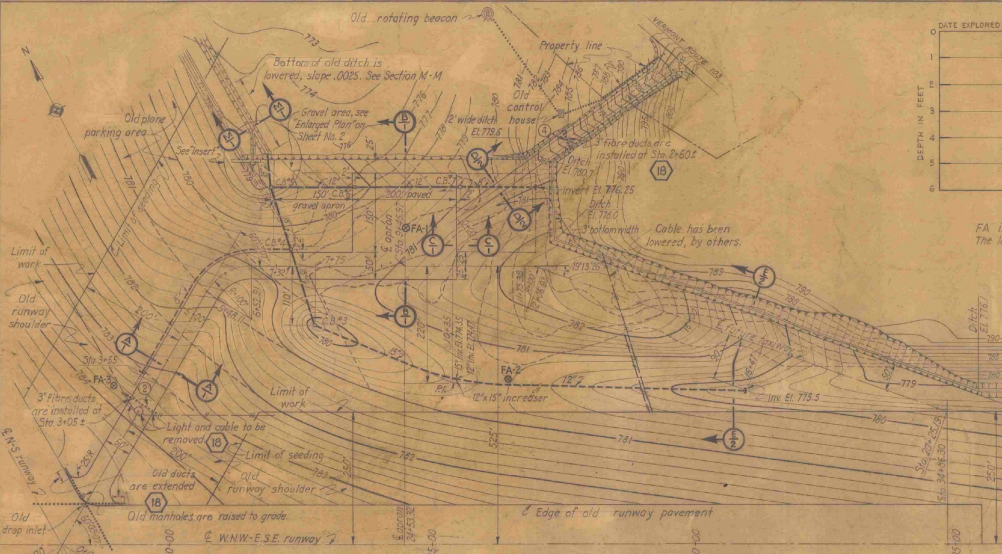
KEY DATE REVISION (indicated by Δ) REV BY CK BY AP BY FILE NO. RA-4-1000

RESTRICTED

52,000

52,000

58,000



PLAN
SCALE: 1"=100'

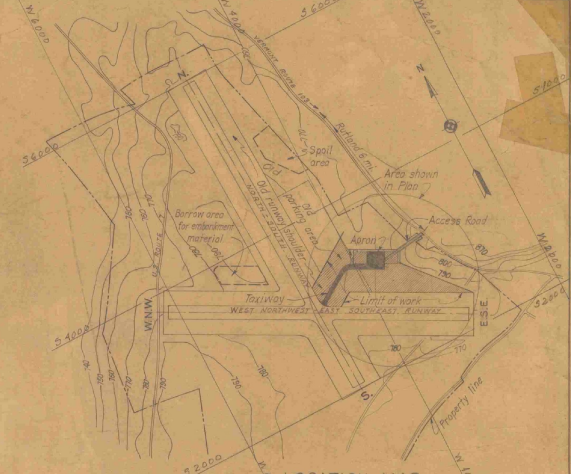
DATE EXPLORED	FA-1 2-14-43	FA-2 2-17-43	FA-3 2-17-43
0	TS Topsoil and roots.	TS Topsoil and roots.	TS Topsoil
1	6-V	4v	
2		4v	
3		4v	
4		4v	
5		4v	
6		Water table	Water table

LOG OF BORE HOLES

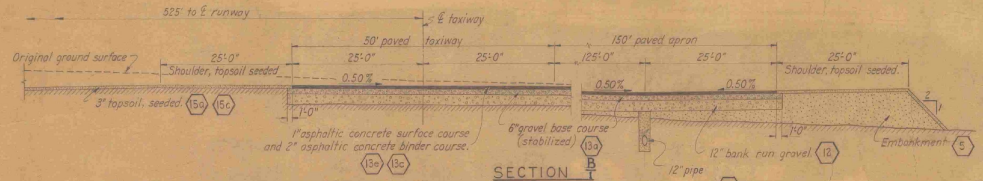
FA Indicates Foundation auger boring, located as indicated by number on Plan. The letter 'v' indicates visual classification.

DESCRIPTION OF SOIL CLASSES

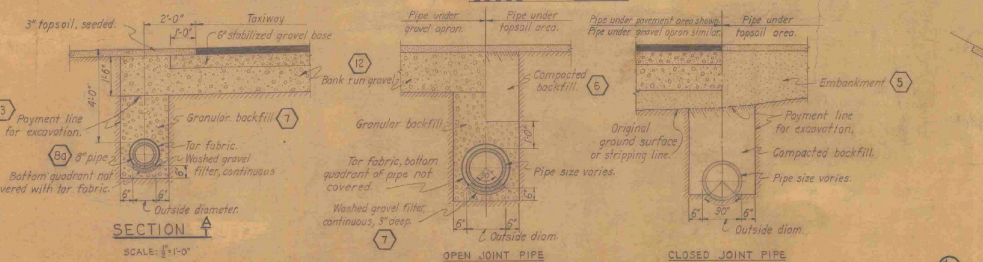
- 2 Course to medium sand-Contains little gravel and fine sand.
- 4 Medium to fine sand-Contains little coarse sand and coarse silt.
- 5 Fine sand to course silt-Contains little medium sand and medium silt.
- 6 Course to medium silt-Contains little fine sand and fine silt.



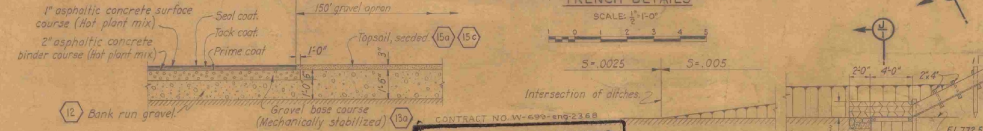
LOCATION MAP
SCALE: 1"=600'



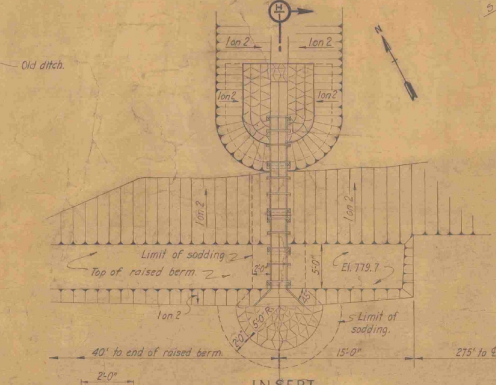
SECTION B
SCALE: 1"=10'



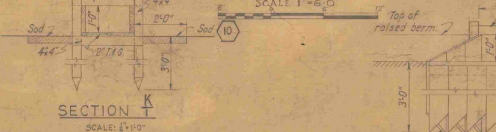
TRENCH DETAILS
SCALE: 1"=10'



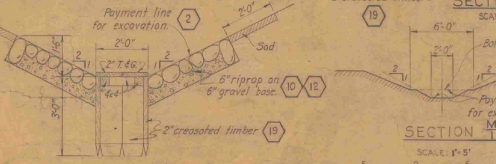
SECTION C
SCALE: 1"=10'



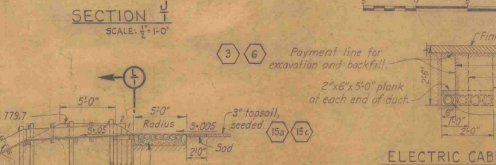
INSERT
SCALE: 1"=6.0'



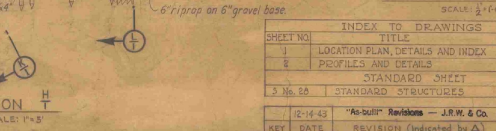
SECTION K
SCALE: 1"=10'



SECTION J
SCALE: 1"=10'



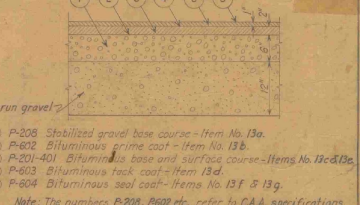
SECTION M
SCALE: 1"=10'



SECTION H
SCALE: 1"=3'

- LEGEND**
- Area to be graded.
 - Area to be paved.
 - Gravel apron
 - Old electrical cable
 - Cable ducts
 - Open joint pipe
 - Closed joint pipe
 - Pipe capped at end
 - Approximate location of auger boring
 - Granular filled trench (no pipe)

- NOTES**
- 1 Elevations refer to Mean Sea Level Datum.
 - 2 Figures in hexagons indicate item numbers under which payment was made.
 - 3 Contour interval is 0.2 ft., 1.0 ft., and 10 ft. as indicated.
 - 4 Cops for pipe are of non-sprayed type.
 - 5 For catch basin inverts and grading elevations, see Sheet No. 2.
 - 6 Dials are now 3' beyond edge of pavement, cap and mark ends 12" x 4" flush concrete markers. Figures in small circles indicate number of ducts installed.



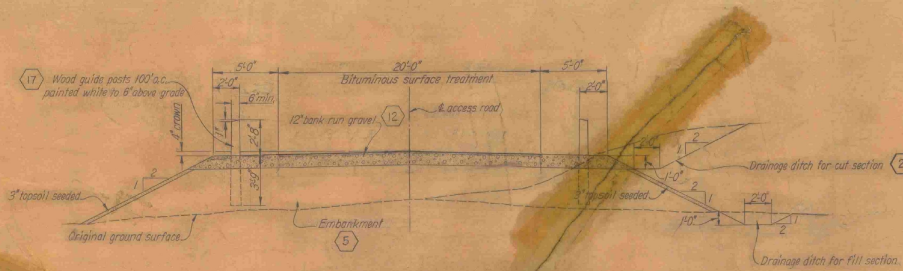
ASPHALTIC CONCRETE PAVEMENT DETAILS
See sheet No. 2

RUTLAND AIRPORT
CLARENDON, VERMONT
APRON, TAXIWAY & ACCESS ROAD
LOCATION PLAN, DETAILS OF INDEX

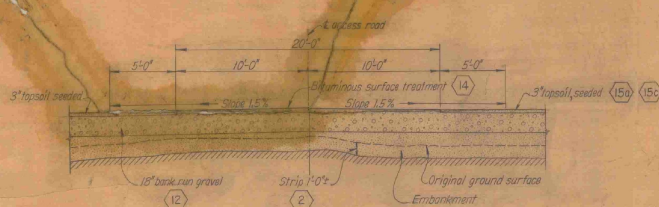
IN 2 SHEETS	SCALE: 1"=100 FT.	SHEET NO. 1
U.S. ENGINEER OFFICE, PROVIDENCE, R.I. MAY 1943		
SUBMITTED: APPROVED: ENGINEERED: ARCHITECTED:		
DESIGNED BY: CHECKED BY: DISTRICT ENGINEER:		
ENGINEER: CHECKED: FILE NO. RA-4-1036		

AS-BUILT DRAWING
1 SEPTEMBER 1943
E. W. GARBISCH
LT. COL. CORPS OF ENGINEERS
DISTRICT ENGINEER

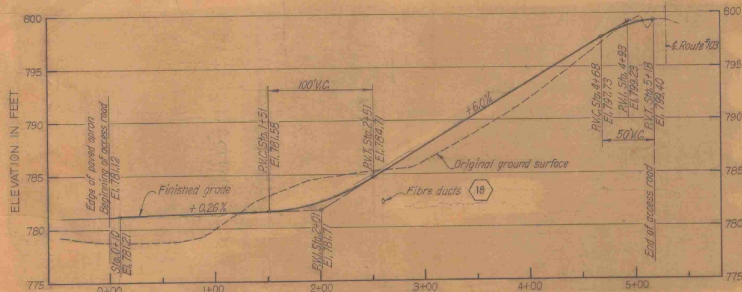
SHEET NO.	TITLE	FILE NO.	AS-BUILT
1	LOCATION PLAN, DETAILS AND INDEX	RA-4-1036	REVISED
2	PROFILES AND DETAILS	RA-4-1037	
3	STANDARD SHEET		UNCHANGED
"As-built" Revisions - J.R.W. & Co.			
KEY	DATE	REVISION (indicated by Δ)	REVISY CR BY AP BY



TYPICAL SECTION OF ACCESS ROAD
SCALE 1"=4'

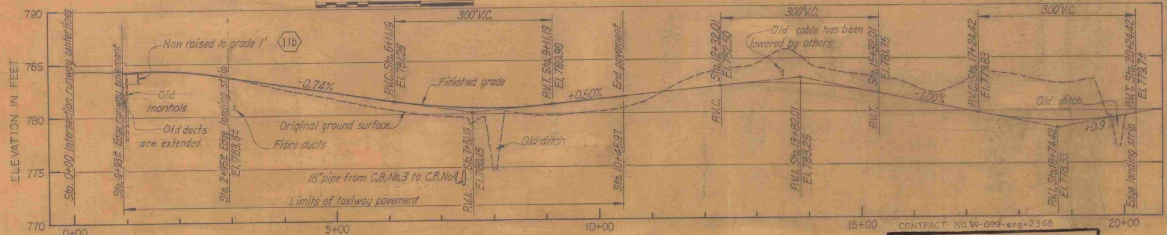


SECTION D
SCALE 1"=4'

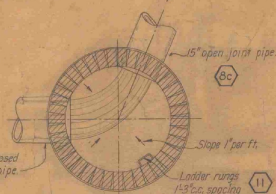


PROFILE ON ACCESS ROAD

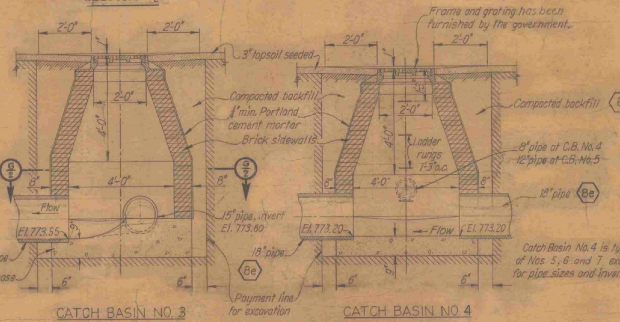
SCALE HORIZONTAL 1"=50'
VERTICAL 1"=5'



PROFILE ON TAXIWAY
SCALE HORIZONTAL 1"=100'
VERTICAL 1"=5'

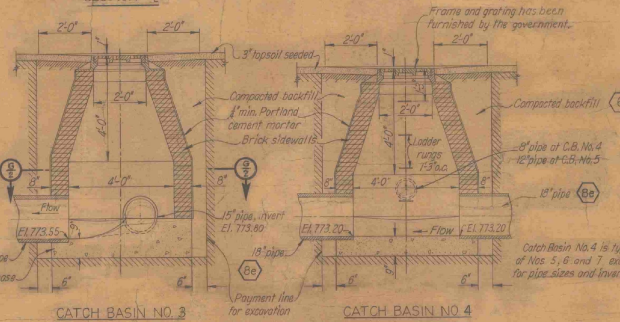


SECTION G



ENLARGED PLAN

SCALE 1"=50'



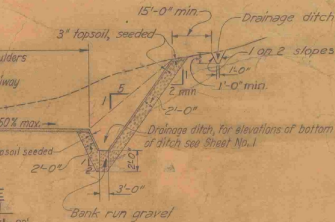
CATCH BASIN NO. 3 CATCH BASIN NO. 4

CATCH BASIN DETAILS

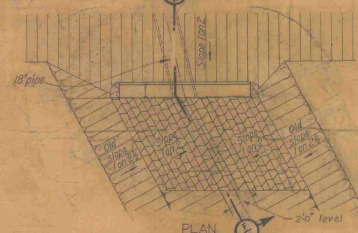
SCALE 1"=1'

CATCH BASIN GRATING & INVERT ELEVATIONS

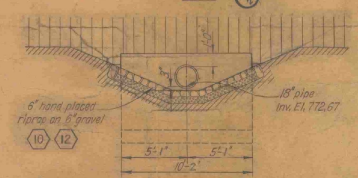
CATCH BASIN	GRATING ELEVATION	PIPE INVERT ELEVATIONS	8"	12"	15"	18"
3	779.20				773.50	773.55
4	780.57	775.72			773.20	773.20
5	779.02		773.75			772.90
6	779.72		774.52			
7	780.77	775.85	775.52			



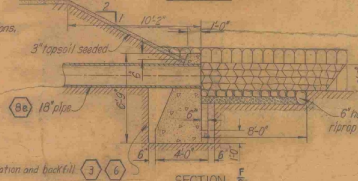
SECTION E
SCALE HORIZONTAL 1"=20'
VERTICAL 1"=5'



PLAN



ELEVATION

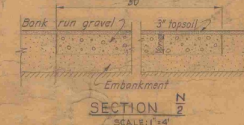


SECTION F

SCALE 1"=4'

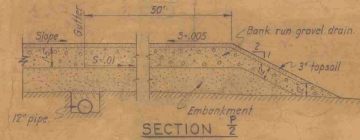
NOTES

- Concrete headwall has been paid for under item No. 16.
- All exposed edges of concrete were chamfered as directed by the contracting officer.
- Arrows indicate direction of flow.
- For general notes applying to details on this sheet see Sheet No. 1.



SECTION N

SCALE 1"=4'



SECTION Z

SCALE 1"=4'

AS-BUILT DRAWING
W. H. G. Garbisch
 E. W. GARBISCH
 LT. COL. CORPS OF ENGINEERS
 DISTRICT ENGINEER

KEY	DATE	REVISION (Indicated by Δ)	REVIEWER	BY
12-14-43		"As Built" Revision	J. W. & Co.	ARLEN

RUTLAND AIRPORT
 CLARENDON, VERMONT
APRON, TAXIWAY & ACCESS ROAD
 PROFILES AND DETAILS

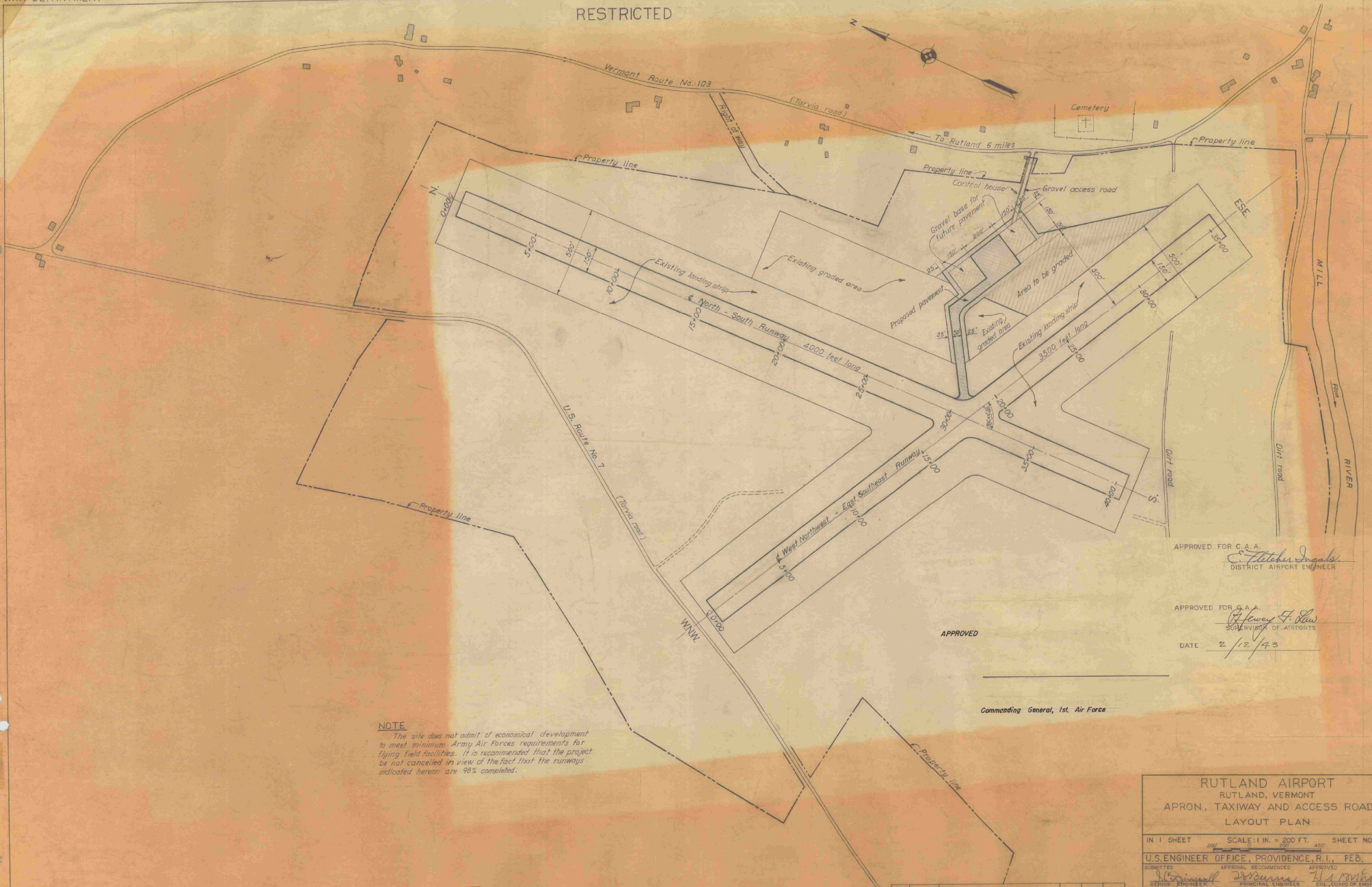
IN 2 SHEETS SCALE 1/4"=1'-0" SHEET NO. 2

U.S. ENGINEER OFFICE, PROVIDENCE, R.I., MAY 1943

IDENTIFIED BY: [Signature] APPROVED BY: [Signature]
 DESIGNED BY: [Signature] COL. CORPS OF ENGINEERS
 DISTRICT ENGINEER

DESIGN SECTION: [Signature] DISTRICT ENGINEER
 DRAWN BY: [Signature]
 CHECKED BY: [Signature] FILE NO. RA-4-1037

RESTRICTED



APPROVED FOR C. A. A.
Fletcher Ingalls
 DISTRICT AIRPORT ENGINEER

APPROVED FOR C. A. A.
Henry F. Shaw
 SUPERVISOR OF AIRPORTS

DATE 2/12/43

APPROVED

Commanding General, 1st. Air Force

NOTE
 The site does not admit of economical development to meet minimum Army Air Forces requirements for flying field facilities. It is recommended that the project be not cancelled in view of the fact that the runways indicated hereon are 98% completed.

RUTLAND AIRPORT
 RUTLAND, VERMONT
 APRON, TAXIWAY AND ACCESS ROAD
 LAYOUT PLAN

IN 1 SHEET SCALE: 1 IN. = 200 FT. SHEET NO. 1

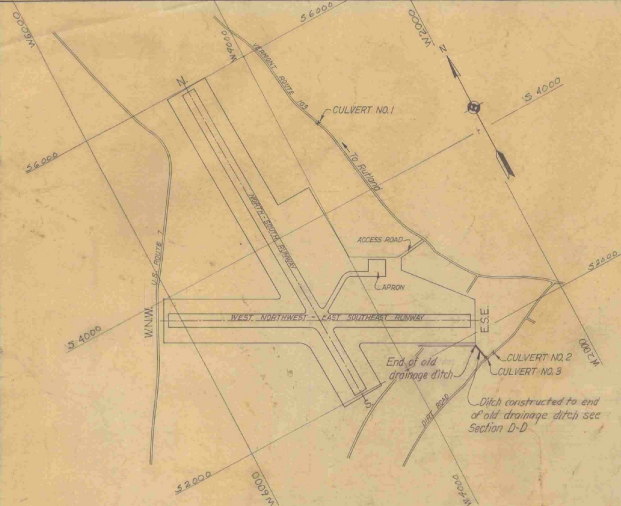
U.S. ENGINEER OFFICE, PROVIDENCE, R. I., FEB. 1943

APPROVALS:
 SUBMITTED: *[Signature]* APPROVED: *[Signature]*
 SENIOR ENGINEER: *[Signature]* PRINCIPAL ENGINEER: *[Signature]* COL. CORPS OF ENGINEERS
 HEAD, DESIGN SECTION: *[Signature]* CHIEF, ENGINEERING DIVISION: *[Signature]* DISTRICT ENGINEER
 DESIGN SECTION: *[Signature]* DRAWN BY: D.C.
 ENGINEER: *[Signature]* CHECKED BY: *[Signature]*

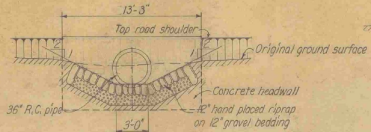
FILE NO. RA-4-1001

KEY	DATE	REVISION (Indicated by Δ)	REV. BY	CK. BY	AP. BY

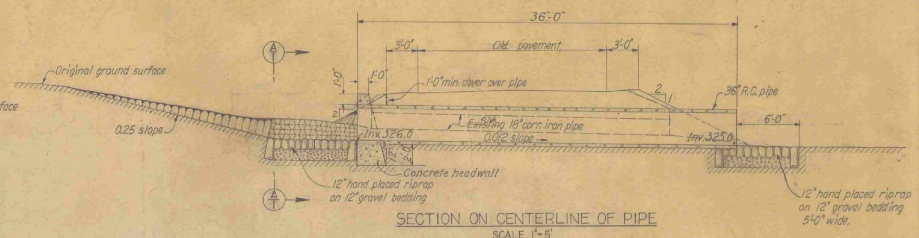
RESTRICTED



LOCATION MAP
SCALE 1"=600'

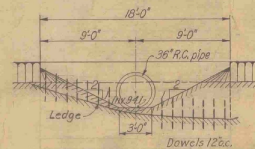


SECTION A
SCALE 1"=5'

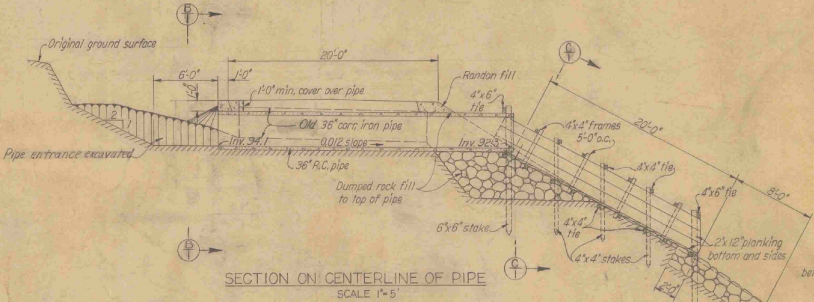


SECTION ON CENTERLINE OF PIPE
SCALE 1"=5'

NOTE
Elevations are referred to Vermont State Highway system levels.

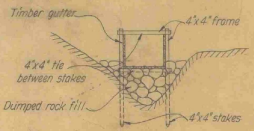


SECTION B
SCALE 1"=5'

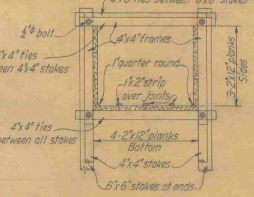


SECTION ON CENTERLINE OF PIPE
SCALE 1"=5'

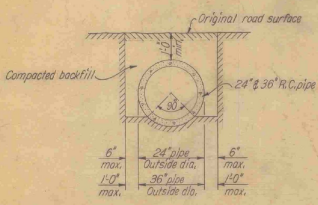
CULVERT NO. 2



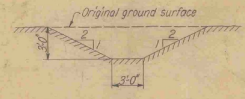
SECTION C
SCALE 1"=5'



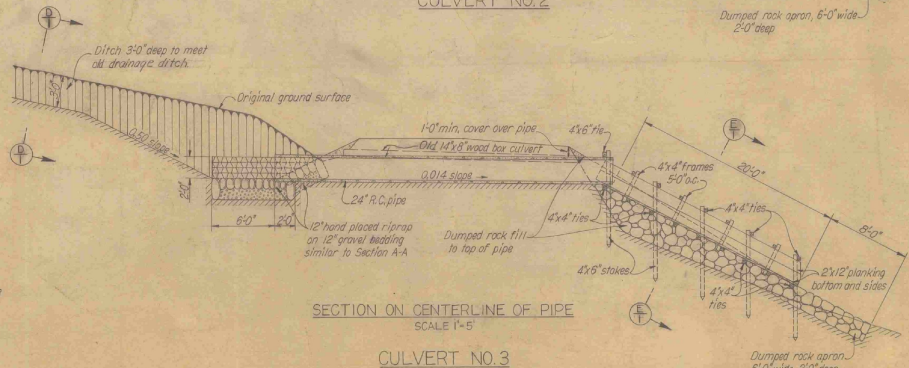
TIMBER GUTTER DETAIL
SCALE 1/2"=1'-0"



TYPICAL PIPE TRENCH
SCALE 1/2"=1'-0"

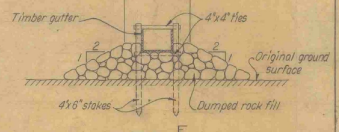


SECTION D
SCALE 1"=5'

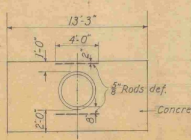


SECTION ON CENTERLINE OF PIPE
SCALE 1"=5'

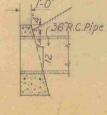
CULVERT NO. 3



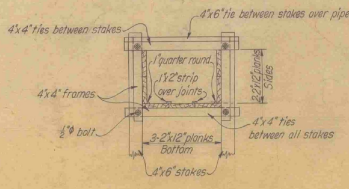
SECTION E
SCALE 1"=5'



ELEVATION
SCALE 1"=5'



SECTION
SCALE 1"=5'



TIMBER GUTTER DETAIL
SCALE 1/2"=1'-0"

STRAIGHT HEADWALL FOR CULVERT NO. 1

NOTE
Headwall was constructed in accordance with Vermont State Highway plans & specifications.

NOTES
All lumber was given two applications of creosote coat for protection.
All frames and stake ties in timber gutters securely fastened with one half inch bolts with washers.
Stakes were spaced 5'-0" o.c. on slope and driven a minimum depth of 3 feet in solid ground.

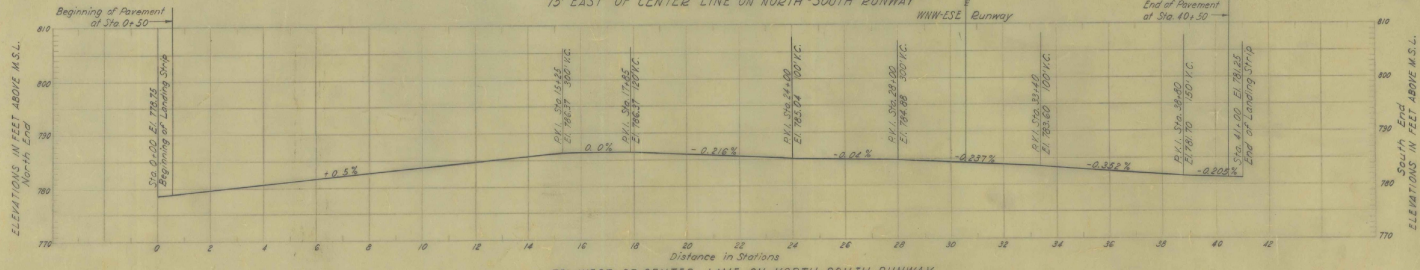
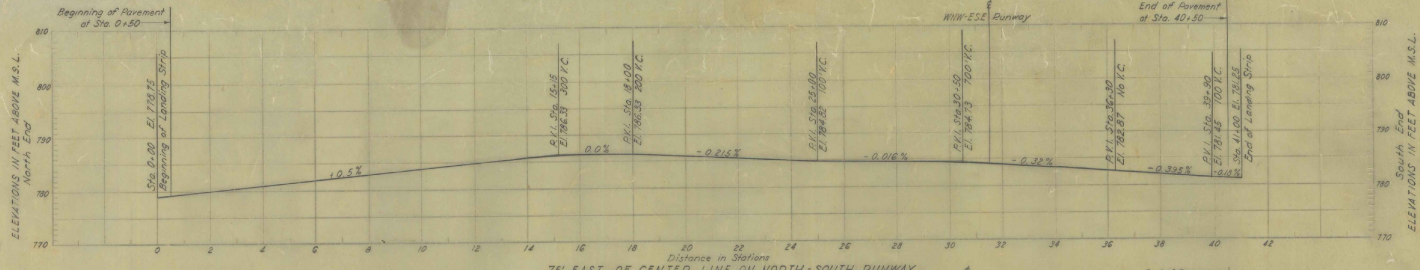
AS-BUILT DRAWING
OCTOBER 1943
E. W. Garbisch
E. W. GARBISCH
LT. COL., CORPS OF ENGINEERS
DISTRICT ENGINEER
P.O. 67331 & P.O. 67171

KEY	DATE	REVISION	INDICATED BY	TRACED BY	APPROVED BY
	12-14-43	"As-built" Revisions	J.R.W. & Co		

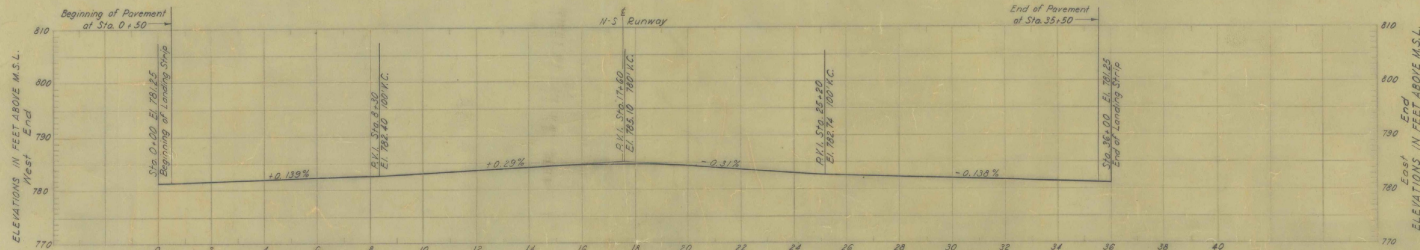
RUTLAND AIRPORT
RUTLAND, VERMONT
DRAINAGE STRUCTURES
SECTIONS AND DETAILS

IN 1 SHEET SCALE 1"=5' SHEET NO. 1

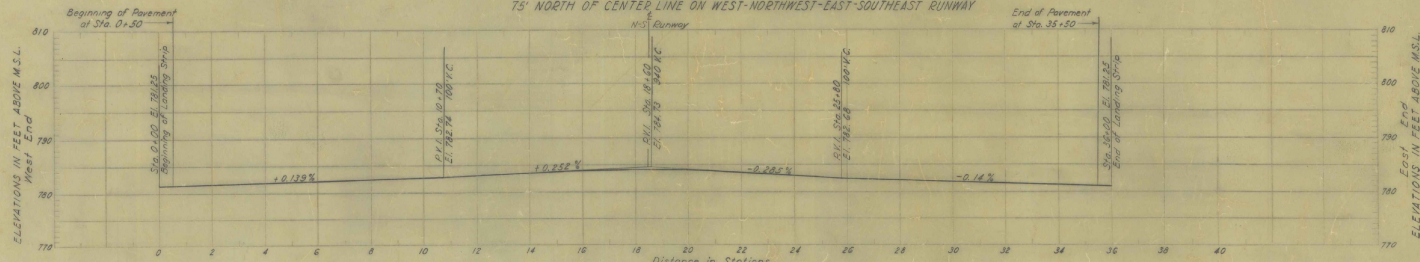
SUBMITTED: APPROVED: *E. W. Garbisch*
S. E. GARBISCH
ENGINEER (T) SENIOR ENGINEER
HEAD, DISTRICT DISTRICT ENGINEER
DESIGN SECTION: DRAWN: G.M.H. TRACED: J.P.P. CHECKED: J.P.P. FILE NO. RA-4-029



PROFILES AT EDGE OF PAVEMENT - NORTH-SOUTH RUNWAY



PROFILES AT EDGE OF PAVEMENT - WEST-NORTHWEST-EAST-SOUTHEAST RUNWAY



Scale: Horiz. 1" = 200'
Vert. 1" = 10'

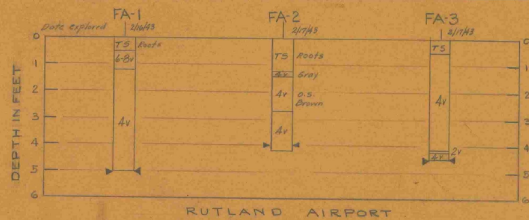
NOTES:
Elevations are in feet and refer to the plane of Mean Sea Level at Sandy Hook, N.J.
Profiles indicate top of finished pavement.
For other profiles, sections, and details, see contract drawings.

C. A. A. CONSTRUCTION PROGRAM
RUTLAND AIRPORT
SUPPLEMENTARY PROFILES AT EDGES OF PAVEMENT

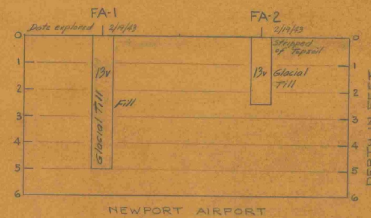
RUTLAND VERMONT
IN 1 SHEET SCALE AS SHOWN SHEET NO. 1
U.S. ENGINEER OFFICE, NEW YORK DISTRICT, NEW YORK, JULY 23 1942

Submitted: [Signature] Recommended: [Signature] Approved: [Signature]
Senior Engineer Major, Corps of Engineers Col., Corps of Engineers

FILE NO. A-502



For location of explorations and source of embankment borrow on site see Soil Laboratory Report No. 1, Plate No. 1, Rutland Airport.
Ground below not available on site.



For location of explorations and source of embankment borrow on site see Soil Laboratory Report No. 1, Plate No. 1, Newport Airport.
Ground below not available on site.

NOTES

- TS Topsoil
- 6s Organic shamed soil
- 4v Numerical Class (Providence District Soil Classification)
Letter V indicates visual classification
- Water Table at time of exploration
- FA Indicates foundation auger boring

Description of soil classes and above notes to be shown on contract drawing.

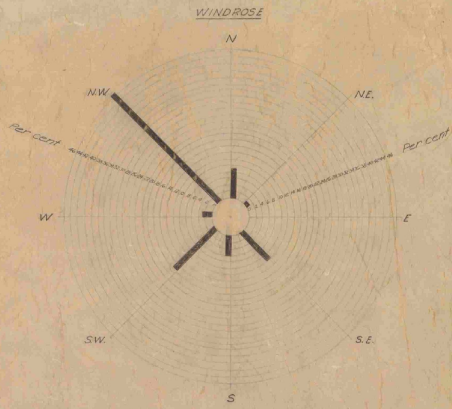
DESCRIPTION OF SOIL CLASSES

- | | |
|---|---|
| 1 Graded from Gravel to Coarse Sand - Contains little medium sand | 9 Graded from Gravel to Medium Silt - Contains little fine silt |
| 2 Coarse to Medium Sand - Contains little gravel and fine sand | 10 Medium to Fine Silt - Contains little coarse silt and coarse clay. Possesses behavior characteristics of silt. |
| 3 Graded from Gravel to Medium Sand - Contains little fine sand | 10c Medium Silt to Coarse Clay - Contains little coarse silt and medium clay. Possesses behavior characteristics of clay. |
| 4 Medium to Fine Sand - Contains little coarse sand and coarse silt | 11 Graded from Gravel or Coarse Sand to Fine Silt - Contains little coarse clay. |
| 5 Graded from Gravel to Fine Sand - Contains little coarse silt. | 12 Fine Silt to Clay - Contains little medium silt and fine clay (colloids). Possesses behavior characteristics of silt. |
| 6 Fine Sand to Coarse Silt - Contains little medium sand and medium silt. | 12c Clay - Contains little silt. Possesses behavior characteristics of clay. |
| 7 Graded from Gravel to Coarse Silt - Contains little medium silt. | 13 Graded from Coarse Sand to Clay - Contains little fine clay (colloids). Possesses behavior characteristics of silt. |
| 8 Coarse to Medium Silt - Contains little fine sand and fine silt. | 13c Clay - Graded from sand to fine clay (colloids). Possesses behavior characteristics of clay. |

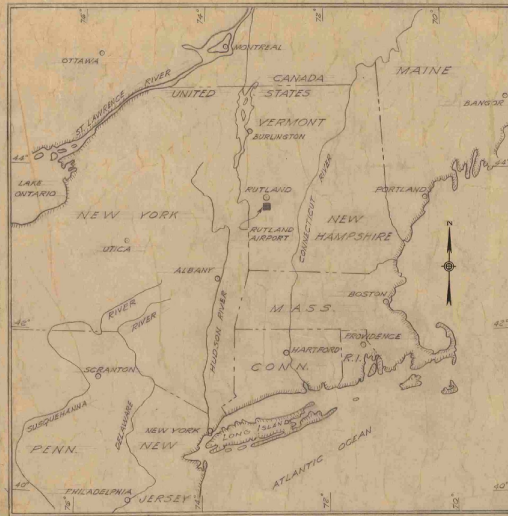
RUTLAND AND NEWPORT AIRPORTS SOIL EXPLORATIONS	
RUTLAND, VT.	NEWPORT, VT.
IN SHEETS	SHEET NO.
U.S. ENGINEER OFFICE, PROVIDENCE, R.I., FEB. 1945	
SUBMITTED:	APPROVAL RECOMMENDED: APPROVED:
ENGINEER HEAD SOILS LABORATORY	PRINCIPAL ENGINEER CHIEF, ENGINEERING DIV.
CO. ENGINEERS OF ENGINEERS DISTRICT ENGINEER	
COMPILED BY: <i>H.W.F.</i>	DRAWN: <i>H.W.F.</i>
CHECKED: <i>H.W.F.</i>	FILE NO. NA-2-1000
	FILE NO. RA-2-1000

KEY	DATE	REVISION (indicated by Δ)	REVIEWED BY	APPROVED BY

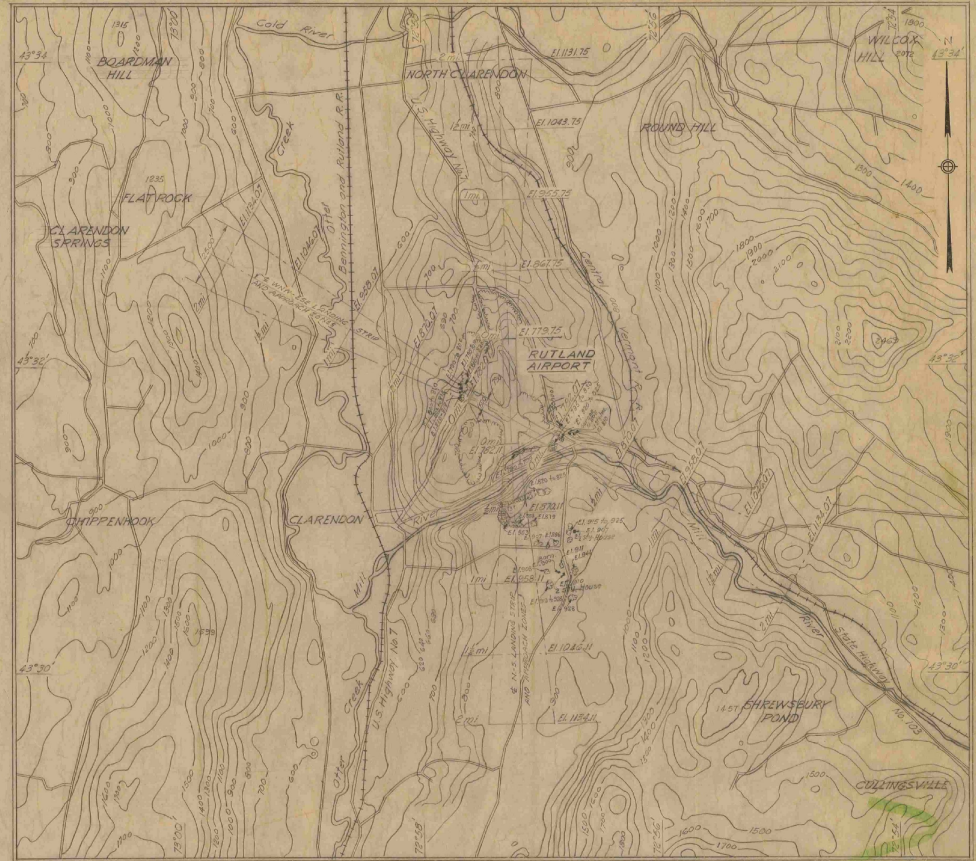
RESTRICTED



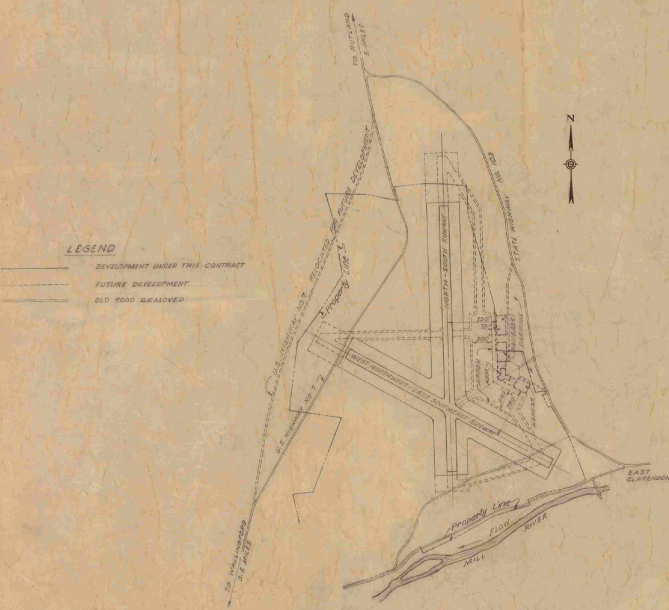
LEGEND:
 RUTLAND, VT. (CALMS - 4.4%)
 Windrose based on all winds for
 period of 1939 - 1941.
 Data from U.S. Weather Observation
 station at Rutland.



LOCATION MAP
 Scale in miles
 0 50 100



VICINITY MAP SHOWING APPROACH AREAS
 Scale: 1" = 2000'
 0 2000 4000



GENERAL PLAN
 Showing ultimate development
 Scale: 1" = 400'
 0 200 400

LEGEND
 ———— DEVELOPMENT UNDER THIS CONTRACT
 - - - - - FUTURE DEVELOPMENT
 - - - - - OLD ROAD REARDED

INDEX TO DRAWINGS				
PROJ. FILE NO.	SHEET NO.	TITLE	FILE NO.	AS-BUILT
RA-4-1023	1	LOCATION PLAN AND INDEX	A-495	
	2	MASTER PLAN	A-498	REVISED
	3	BORING RECORDS	A-494	
	4	GRADING PLAN	A-495	
	5	GRADING PLAN AT INTERSECTION	A-496	REVISED
	6	PROFILES OF NORTH-SOUTH LANDING STRIP	A-497	
	7	PROFILES OF WEST-NORTHWEST - EAST SOUTHEAST LANDING STRIP	A-498	
	8	PAVING PLAN AND DETAILS	A-499	REVISED
	9	DRAINAGE PLAN AND DETAILS	A-500	"
	10	ELECTRICAL LAYOUT AND DETAILS	A-501	"
	1035	ROTATING BEACON TOWER	A-457A	"

AS-BUILT DRAWING
 OCTOBER 1943
 E. W. GARBISCH
 LT. COL. CORPS OF ENGINEERS
 DISTRICT ENGINEER
 CONTRACT NO. W4087 eng-2918 & 2914

NOTES:
 Vicinity map topography taken from
 U.S.G.S. Quadrangle and U.S. Engineer Office
 survey.
 All elevations are in feet and refer to
 the plane of Mean Sea-Level at Sandy Hook, N.J.

C. A. A. CONSTRUCTION PROGRAM
RUTLAND AIRPORT
LOCATION PLAN & INDEX

RUTLAND VERMONT
 IN 11 SHEETS SCALE: 1" = 2000 FT. SHEET NO. 1
 U.S. ENGINEER OFFICE, NEW YORK DISTRICT, NEW YORK. AUGUST 1942.

Submitted: [Signature] Recommended: [Signature] Approved: [Signature]
 Engineer, Principal Engineer, Col. Corps of Engineers
 Approved for: C.A.A. Henry F. Lane (Supv.) To Accompany Specifications Dated JANUARY 13, 1942
 Superior of Airports

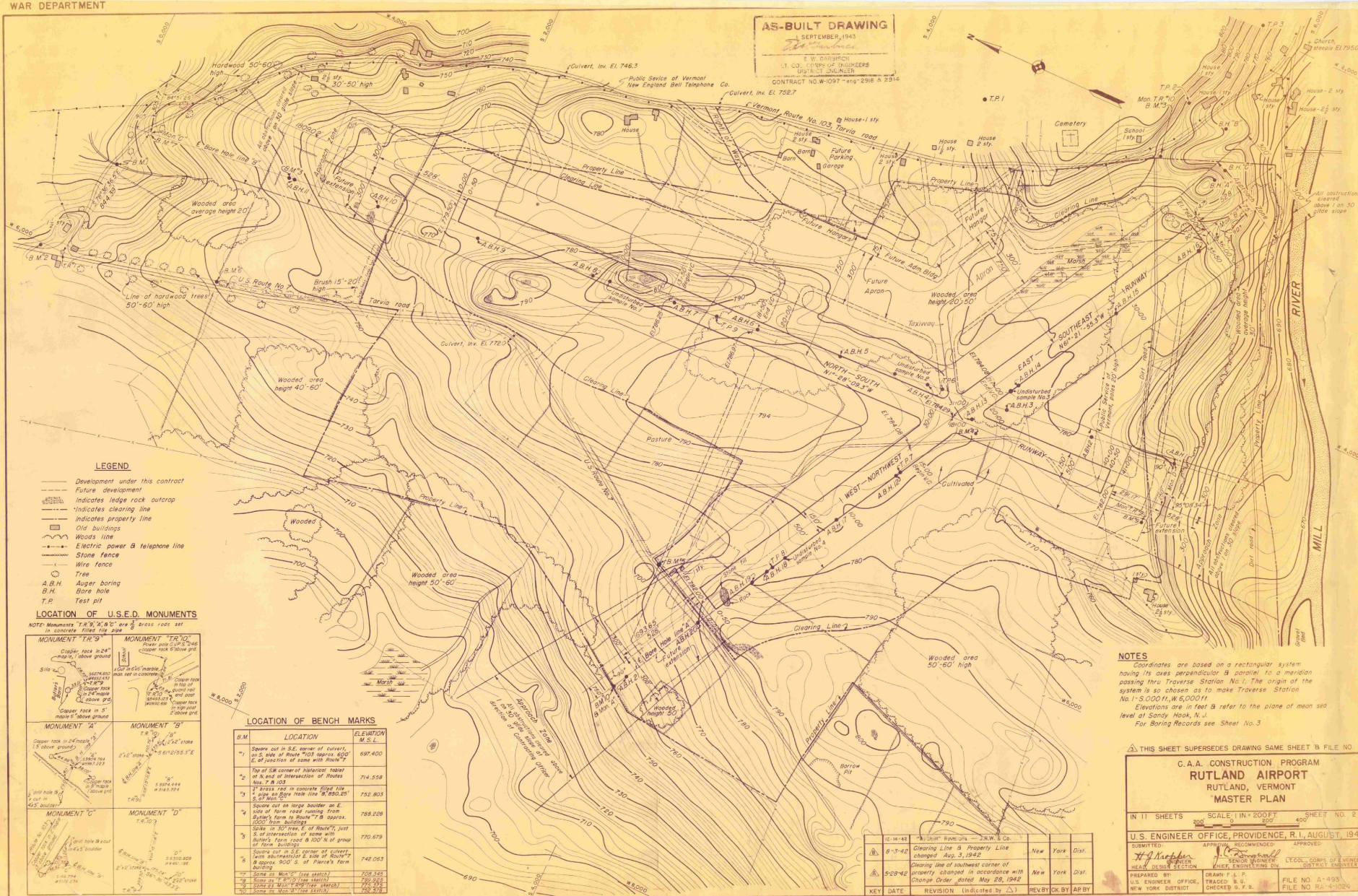
PROJ. FILE NO. RA-4-1023
 FILE NO. A-492

REV.	DATE	REVISION INDICATED BY	REV. BY	CHK. BY	AP. BY
1	7-3-42	PROPERTY LINE CHANGED			

RESTRICTED

AS-BUILT DRAWING

SEPTEMBER, 1943
 E. W. GARRESON
 U.S. CORP. OF ENGINEERS
 DISTRICT ENGINEER
 CONTRACT NO. W-1097 - eng-2918 & 2914

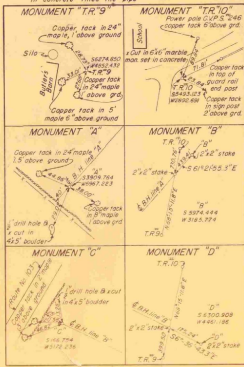


LEGEND

- Development under this contract
- - - Future development
- Indicates ledge rock outcrop
- - - Indicates clearing line
- - - Indicates property line
- Old buildings
- Woods line
- Electric power & telephone line
- Stone fence
- Wire fence
- Tree
- A.B.H. Auger boring
- B.H. Bore hole
- T.P. Test pit

LOCATION OF U.S.E.D. MONUMENTS

NOTE: Monuments T.P. 9, A.B. 5 are 1/2" brass rods set in concrete. Final size 1 1/2" dia.



LOCATION OF BENCH MARKS

S.M.	LOCATION	ELEVATION M.S.L.
1	Spore cut in S.E. corner of culvert on S. side of Route No. 103 square 450' E. of junction of same with Route No. 103	697.400
2	Top of concrete foundation marker at E. end of intersection of Routes No. 103	714.558
3	1" brass rod in concrete filled hole in Bare Hole line 21, 950.25' S. of Mon. A	752.803
4	Spore cut in farm road running from side of farm road 100' S. of square 450' E. of junction of Routes No. 103	798.228
5	Spore cut in farm road 100' N. of group of farm buildings	770.679
6	Spore cut in farm road 100' N. of group of farm buildings	740.063
7	Spore cut in farm road 100' N. of group of farm buildings	728.548
8	Spore cut in farm road 100' N. of group of farm buildings	722.524
9	Spore cut in farm road 100' N. of group of farm buildings	725.741
10	Spore cut in farm road 100' N. of group of farm buildings	728.528

NOTES
 Coordinates are based on a rectangular system having its axes perpendicular & parallel to a meridian passing thru Traverse Station No. 1. The origin of the system is so chosen as to make Traverse Station No. 1 = 0.000 ft. W. & 0.000 ft. N.
 Elevations are in feet & refer to the plane of mean sea level of Sandy Hook, N. J.
 For Boring Records see Sheet No. 3

THIS SHEET SUPERSEDES DRAWING SAME SHEET B FILE NO.

C.A.A. CONSTRUCTION PROGRAM
RUTLAND AIRPORT
 RUTLAND, VERMONT
MASTER PLAN

IN 11 SHEETS SCALE 1" = 200 FT SHEET NO. 2

U.S. ENGINEER OFFICE, PROVIDENCE, R. I., AUGUST, 1942

PREPARED BY: *H. J. Mather*
 DISTRICT ENGINEER

APPROVED: *H. J. Mather*
 DISTRICT ENGINEER

REVISION: *H. J. Mather*
 DISTRICT ENGINEER

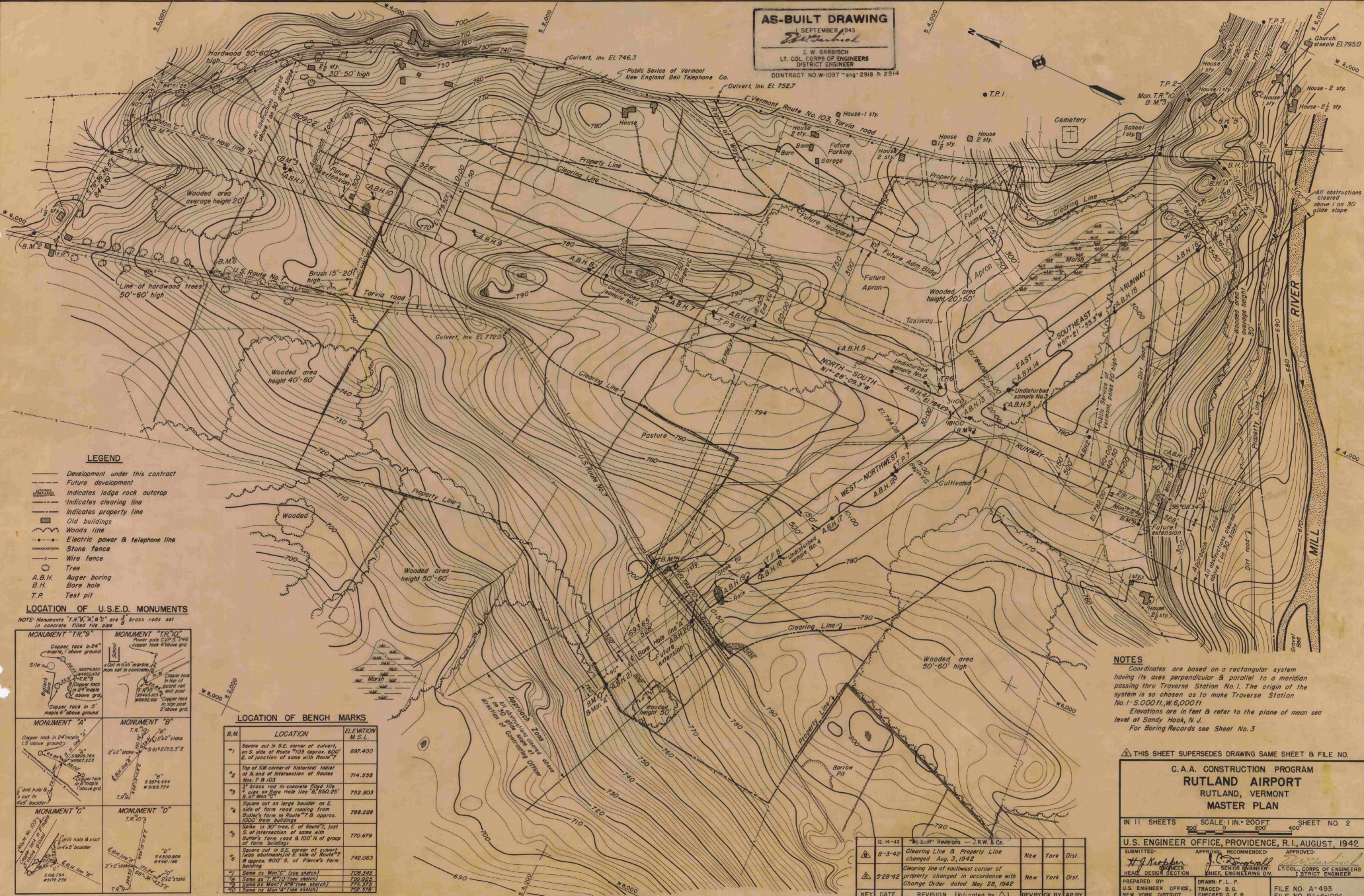
KEY DATE: 8-14-42
 8-13-42
 5-20-42

REVISION: Clearing Line & Property Line changed Aug. 3, 1942
 Property changed in accordance with Change Order dated May 28, 1942

REBY: CK BY ARBY

FILE NO. A-493
 FILE NO. RA-41026

AS-BUILT DRAWING
 1 SEPTEMBER 1943
W. Garbisch
 L. W. GARBISCH
 LT. COL. CORPS OF ENGINEERS
 DISTRICT ENGINEER
 CONTRACT NO. W-1097 - eng-2918 & 2914
 Culvert, Inv. El. 758.7



LEGEND

- Development under this contract
- - - Future development
- Indicates ledge rock outcrop
- - - Indicates clearing line
- Indicates property line
- Old buildings
- Woods line
- Electric power & telephone line
- Stone fence
- Wire fence
- Tree
- A.B.H. Auger boring
- B.H. Bore hole
- T.P. Test pit

LOCATION OF U.S.E.D. MONUMENTS

NOTE: Monuments T.R. 5, A, B & C are brass rods set in concrete fixed to pipe

<p>MONUMENT "TR 5" Copper tack in 24" pipe 1' above ground</p>	<p>MONUMENT "TR 10" Power pole C.P. 5748 Copper tack 6" above ground</p>
<p>MONUMENT "B" Copper tack in 24" pipe 1' above ground</p>	<p>MONUMENT "C" 2 1/2" stake 5 524.444 N 81.2° 55.3' E</p>
<p>MONUMENT "D" Copper tack in 24" pipe 1' above ground</p>	<p>MONUMENT "E" 2 1/2" stake 5 630.809 4440.188</p>

LOCATION OF BENCH MARKS

B.M.	LOCATION	ELEVATION M.S.L.
1	Spore cut in S.E. corner of culvert on S. side of Route 103 approx. 800' E. of junction of same with Route 7	697.400
2	Top of SW corner of historical tablet at head of intersection of Routes Nos. 7 & 103	714.558
3	2" steel rod in concrete filled hole 4' up on Edge Hole line "B" 850.25' S. of Point C	752.203
4	Spore cut on large boulder on E. side of farm road running from Bullock farm in Route 77.8 approx. 1000' from buildings	788.228
5	Spore cut in S.E. corner of culvert (with extension) on E. side of Route 77 approx. 900' S. of Pierce's farm building	770.679
6	Spore cut in S.E. corner of culvert (with extension) on E. side of Route 77 approx. 900' S. of Pierce's farm building	748.063
7	Same as Mon 7 (see sketch)	708.545
8	Same as T.R. 10 (see sketch)	729.812
9	Same as Mon 7 (see sketch)	779.175
10	Same as Mon 7 (see sketch)	728.578

NOTES
 Coordinates are based on a rectangular system having its axes perpendicular & parallel to a meridian passing thru Traverse Station No. 1. The origin of the system is so chosen as to make Traverse Station No. 1 = 5,000 ft. W, 6,000 ft. E.
 Elevations are in feet & refer to the plane of mean sea level at Sandy Hook, N. J.
 For Boring Records see Sheet No. 3

THIS SHEET SUPERSEDES DRAWING SAME SHEET & FILE NO.

C. A. A. CONSTRUCTION PROGRAM
RUTLAND AIRPORT
 RUTLAND, VERMONT
MASTER PLAN

IN 11 SHEETS SCALE: 1" = 200 FT. SHEET NO. 2

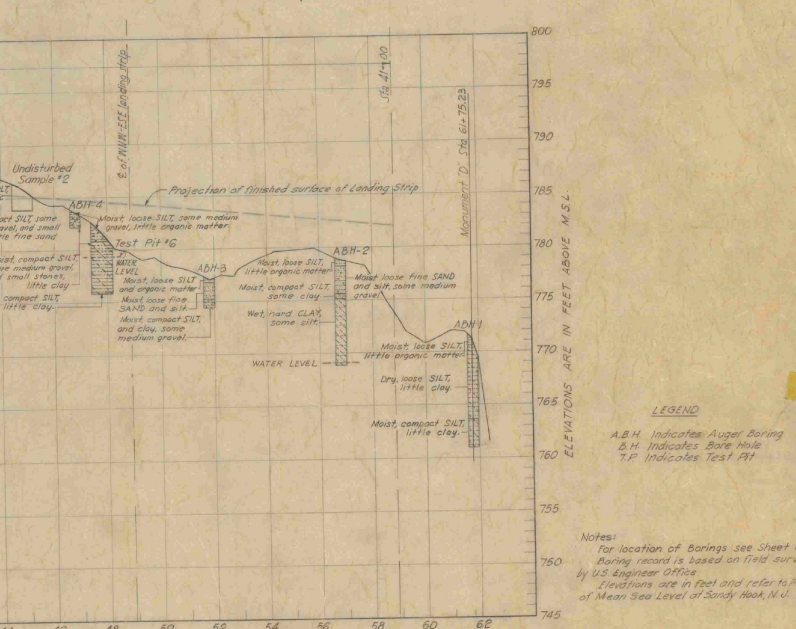
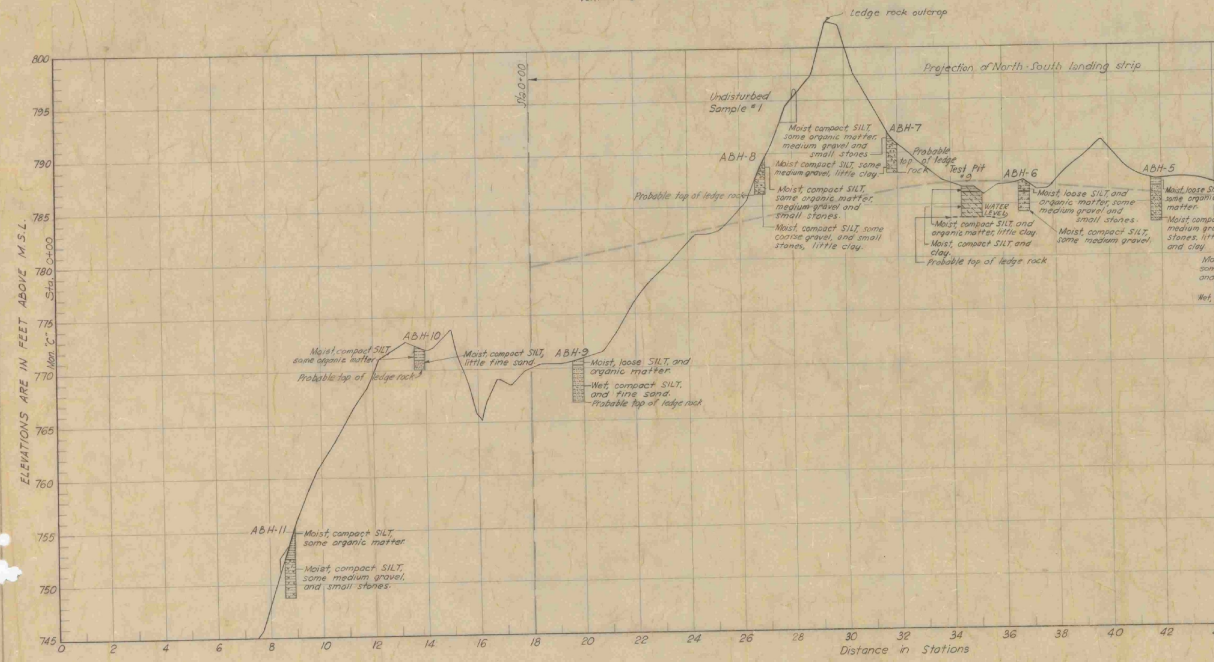
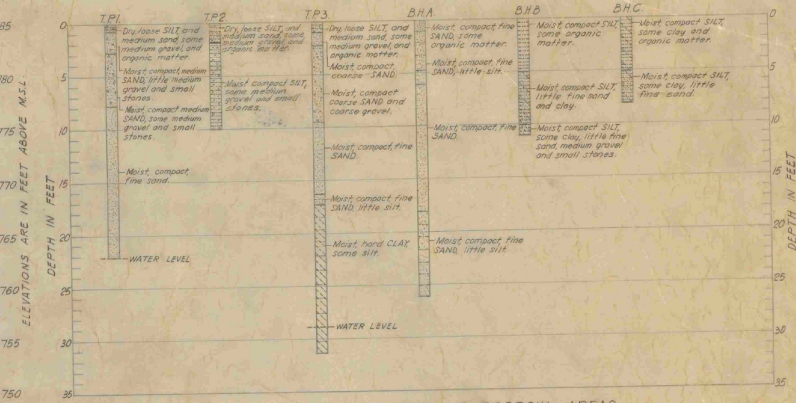
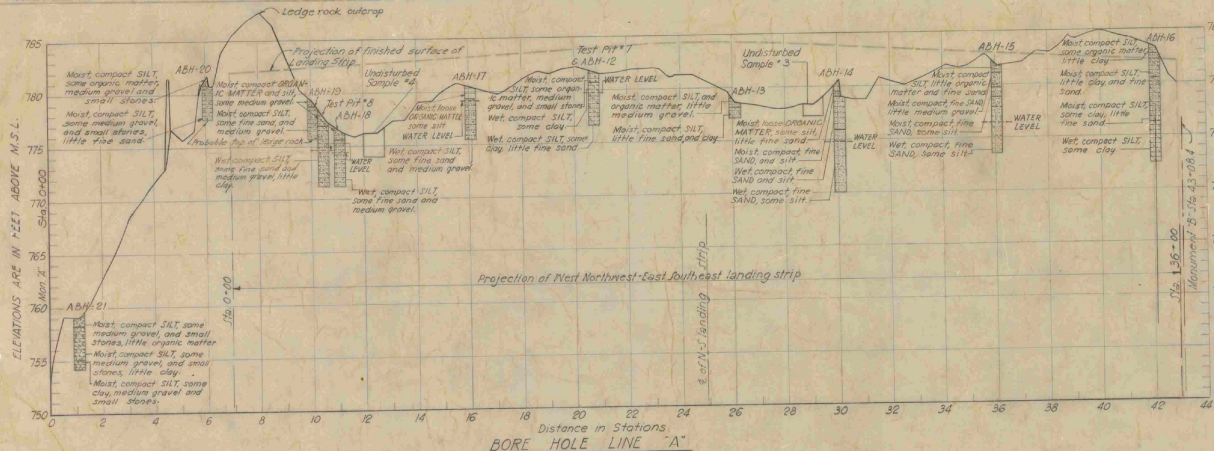
U.S. ENGINEER OFFICE, PROVIDENCE, R. I., AUGUST, 1942

SUBMITTED: *W. Garbisch* APPROVED: *W. Garbisch*
 HEAD, DESIGN SECTION SENIOR ENGINEER
 U.S. ENGINEER OFFICE, SENIOR ENGINEER DIV.
 NEW YORK DISTRICT

PREPARED BY: *W. Garbisch* FILE NO. A-493
 TRACED BY: *W. Garbisch* FILE NO. RA-4-1024
 CHECKED BY: *W. Garbisch*

KEY	DATE	REVISION (Indicated by Δ)	REVISION BY	APPROVED BY
Δ	12-14-42	"As-Built" Revisions - J.R.W. & Co.		
Δ	8-3-42	Clearing Line & Property Line changed Aug. 3, 1942	New York Dist.	
Δ	5-28-42	Clearing line of southwest corner of property changed in accordance with Change Order dated May 28, 1942	New York Dist.	

WAR DEPARTMENT



AS-BUILT DRAWING
 1 SEPTEMBER, 1943
 E. W. GARBISCH
 LT. COL., CORPS OF ENGINEERS
 DISTRICT ENGINEER
 CONTRACT NO. W-037 eng 2918 & 2918

C. A. A. CONSTRUCTION PROGRAM
RUTLAND AIRPORT
BORING RECORD

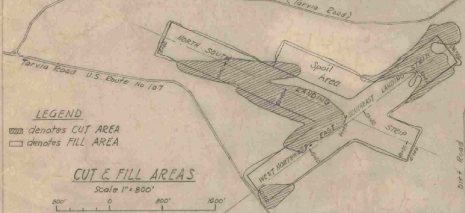
RUTLAND VERMONT
 IN 11 SHEETS HOR SCALE: 1" = 200 FT. SHEET NO. 3
 VERT. SCALE: 1" = 5 FT.
 U.S. ENGINEER OFFICE, NEW YORK DISTRICT, NEW YORK, AUGUST, 1942.

Submitted: *J. J. Pennington* Engineer
 Recommended: *Charles A. A. Construction Program* Principal Engineer
 Approved: *Harvey T. Lutz* (signed) Superintendent of District

To Accompany Specification
 Dist. M. & C. 15, 10-12
 PROV. FILE NO. RA-4-1025
 FILE NO. A-494

KEY	DATE	REVISION (Indicated by Δ)	REV BY	CK BY	AP BY
Δ	4-24-43	Seeded area reduced.	JWM	JPM	JPM
Δ	5-28-43	Clearing line of southeast corner of property changed in accordance with County cover sheet May 28, 1943.			

AS-BUILT DRAWING
 SEPTEMBER 1943
E. W. Garbisch
 E. W. GARBISCH
 LT. COL., CORPS OF ENGINEERS
 DISTRICT ENGINEER
 CONTRACT NO. W-1097-eng-2918 & 2914



- LEGEND**
- Indicates contour for proposed graded field.
 - Indicates property line based on survey by U.S. Engineer Office.
 - Indicates ledge rock outcrop.
 - Indicates clearing line.
 - Indicates property line.
 - Dist. buildings
 - Woods line
 - Electric Power & Telephone Line
 - Stone fence
 - Tree

NOTES

Elevations are in feet and refer to the plane of Mean Sea Level at Sandy Hook, N.J.

"Finished Contours" indicate top of finished pavement or topsoil.

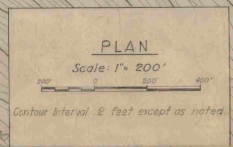
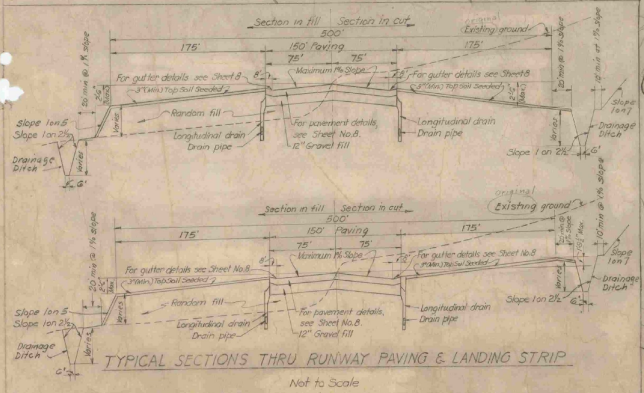
For supplemental grading plan see Sheet No. 5.

For profiles see Sheets No. 6 and 7.

For pavement details see Sheet No. 8.

For locations and details of new drainage ditches see Sheet No. 9.

Revision to Property Line, Clearing Line and Spoil Area changed August 3, 1942.



C. A. A. CONSTRUCTION PROGRAM
RUTLAND AIRPORT
GRADING PLAN

RUTLAND VERMONT
 IN 11 SHEETS SCALE: 1" = 200' FT SHEET NO. 4

U.S. ENGINEER OFFICE, NEW YORK DISTRICT, NEW YORK, AUGUST - 1942.

Submitted: *F. P. ...* Recommended: *C. A. A. ...* Approved: *E. W. Garbisch*
 Engineer Principal Engineer Lt. Col., Corps of Engineers
 Approved for: *Harvey F. Law* (Signed) To Accompany Specifications Dated MARCH 15, 1942.
 Superior of Airports.

RKV. FILE NO. 1A-4-1026.
 FILE NO. A-495.