

INDEX OF SHEETS

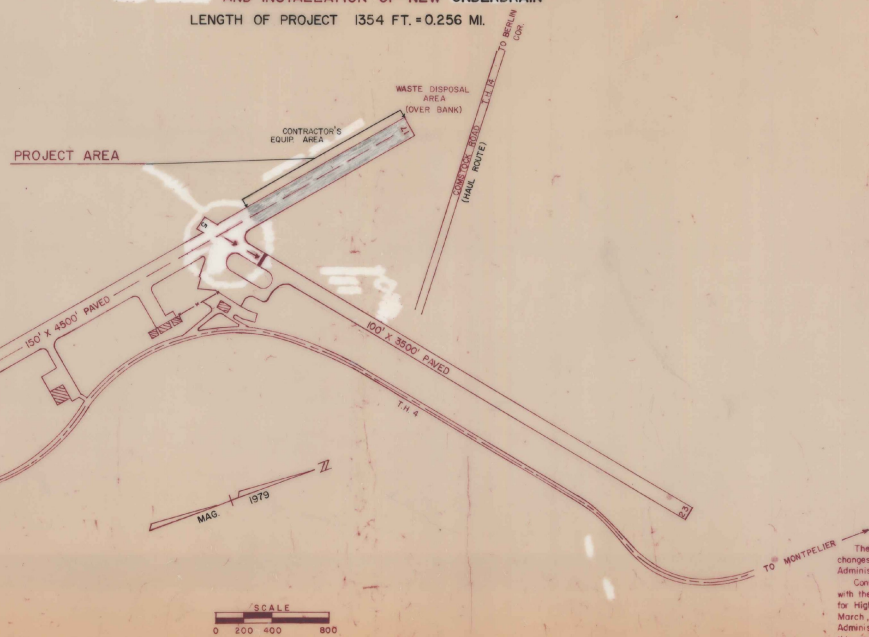
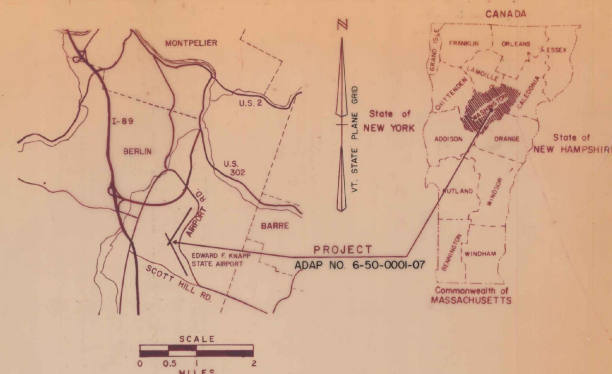
1. Title Sheet
2. Typical Sheet
3. Misc. Details
4. Item Quantity Grade Sheet
5. Item Quantity Sheet
6. H. Cross Sections

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT TOWN OF BERLIN COUNTY OF WASHINGTON EDWARD F. KNAPP STATE AIRPORT

ADAP NO. 6-50-0001-07
RECONSTRUCTION OF THE NORTH END OF RUNWAY 17-35
AND INSTALLATION OF NEW UNDERDRAIN
LENGTH OF PROJECT 1354 FT. = 0.256 MI.



CONVENTIONAL SIGNS

- COUNTY LINE
- TOWN LINE
- LIMITS OF ACCESS
- POINT OF ACCESS
- FENCE LINE
- STONE WALL
- TRAVELED WAY
- GUARD RAIL
- RAILROAD
- SURVEY LINE
- CULVERT
- POWER POLE
- TELEPHONE POLE
- TRAIL
- CONTROL OF ACCESS
- PROPERTY LINE
- R.O.W. TAKING LINE
- SLOPE RIGHTS
- TOP OF CUT
- TOE OF SLOPE

DATUM
VERTICAL
HORIZONTAL

ASSUMED
N/A

AS BUILT PLANS

I hereby certify that a true and correct copy of the original plans required by this act of drawings has been submitted as indicated herein.
By *[Signature]* Resident Engineer
Date *[Date]*

ADAP NO. 6-50-0001-07

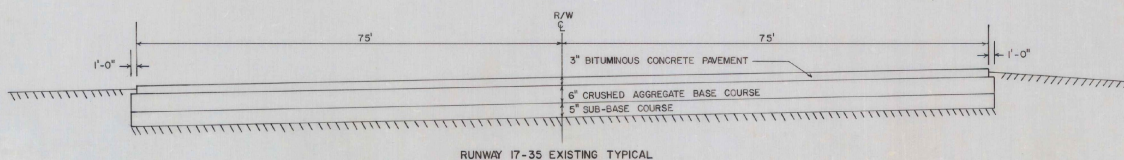
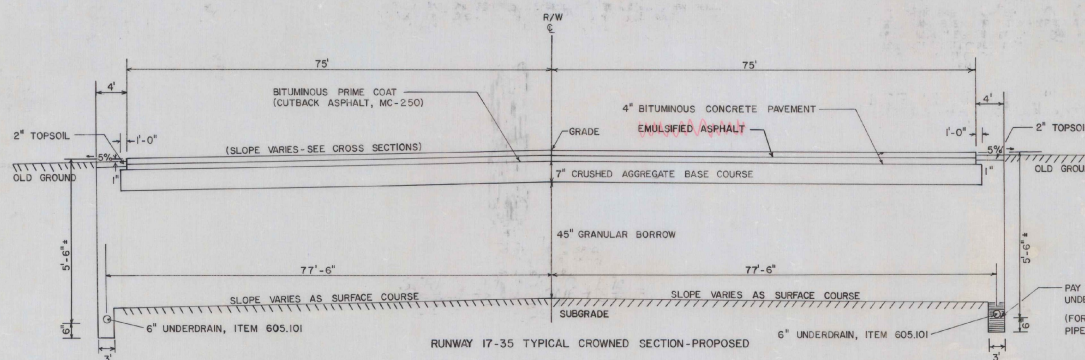
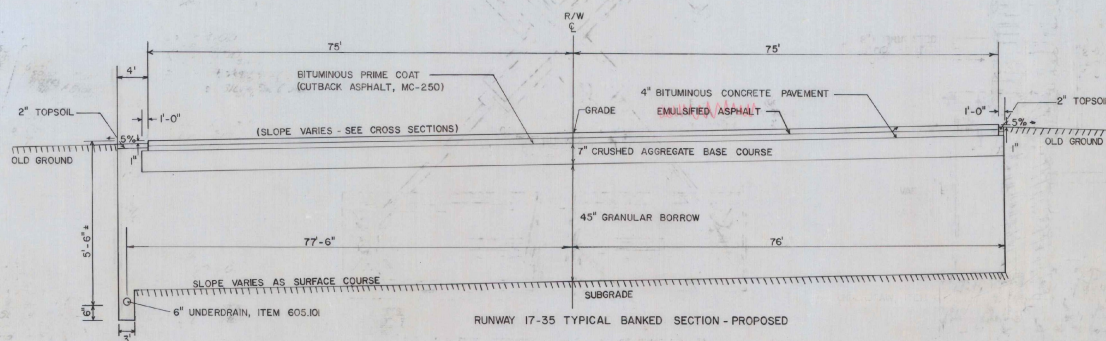
These plans are subject to such engineering changes as may be required by the Federal Aviation Administration or the Director of Engineering and Construction. Construction is to be carried on in accordance with these plans and the Standard Specifications for Highway and Bridge Construction dated March, 1976, as approved by the Federal Highway Administration on October 27, 1976, for use on this project, including all subsequent revisions and such revised specifications and special provisions as are incorporated in these plans.

APPROVED: *[Signature]* DATE: *[Date]*
DIRECTOR OF ENGINEERING AND CONSTRUCTION
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
APPROVED: *[Signature]* DATE: *[Date]*
CHIEF, ENGINEERING BRANCH

PROJECT AIR 23-2010
ADAP 6-50-0001-07
SHEET 1 OF 11 SHEETS

TYPICAL SECTIONS

4" BITUMINOUS CONCRETE PAVEMENT, ITEM P-401 (2-2" LIFTS) * (PAY ITEM 853.02)
 BITUMINOUS PRIME COAT, ITEM 404.55 (CUTBACK ASPHALT, MC-250)
 7" CRUSHED AGGREGATE BASE COURSE, P-209 (PAY ITEM 853.07), GRADATION B
 45" GRANULAR BORROW, ITEM 203.25
 * EMULSIFIED ASPHALT, ITEM 404.65, BETWEEN LIFTS (2" TYPE B OVER 2" TYPE A)



GENERAL NOTES

SEED, ITEM 651.10

% WT	LBS/A	NAME	PUR %	GERM %
3.33	2	CROWN VETCH	97	75
50.00	30	CREEPING RED FESCUE	98	85
8.33	5	TIFFIN	99	85
16.67	10	PERENNIAL RYE GRASS (VAR. PENNFINE)	95	85
8.34	5	ALFALFA (VAR. SARANAC)	99	85
8.33	5	BIRDFOOT TREFOIL (VAR. EMPIRE)	98	85
5.00	3	HIGHLAND BENT GRASS	92	85
100.00	60 LBS/ACRE			

THE SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS WEED SEED.

FERTILIZER, ITEM 651.15

FORMULA 10-20-10 TO BE USED WITH SEED, ITEM 651.10 APPLIED AT THE RATE OF 500 LBS/ACRE

AGRICULTURAL LIMESTONE, ITEM 651.20

TO BE APPLIED AT RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER

HAY MULCH, ITEM 651.25

TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE

TOPSOIL, ITEM 653.10

TO BE USED WITH SEED, ITEM 651.10 AS DIRECTED BY THE ENGINEER

ALLOWABLE THICKNESS TOLERANCES *

SUB-BASE	± 1"
CONTROLLED MATERIAL	± 1"
PAVEMENT	± 1/4"
BASE COURSE	± 3/8"

* APPLIES TO TOTAL THICKNESS OF ALL LIFTS

NOTES

- SUB-GRADE UNDER AREAS TO BE PAVED TO BE COMPACTED TO 95% DENSITY AS PER FAA T-611 (AASHTO T-180).
- BITUMINOUS PRIME COAT TO BE APPLIED AS PER ITEM 404.55, SUBSECTION 404.06 (C), TYPE I, USING MC-250.
- TOP 9" OF GRANULAR BORROW TO BE COMPACTED TO 100% DENSITY (AASHTO T-180).
- AREAS ADJACENT TO THE RUNWAY THAT ARE DISTURBED BY NEW CONSTRUCTION ARE TO BE GRADED, RAKED FREE OF STONES, COVERED WITH 2" OF TOPSOIL, SEEDED, AND ROLLED.

AS BUILT PLANS

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

By _____ Resident Engineer
 Date _____

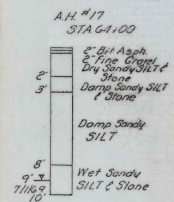
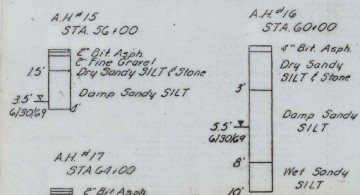
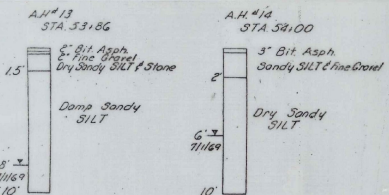
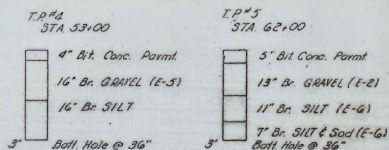
ADAP NO. 6-50-0001-07

EDWARD F. KNAPP AIRPORT

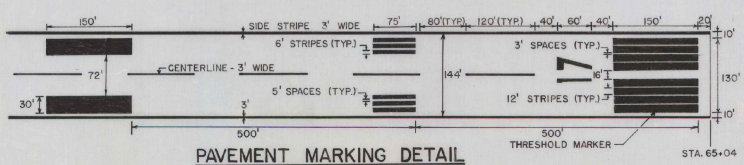
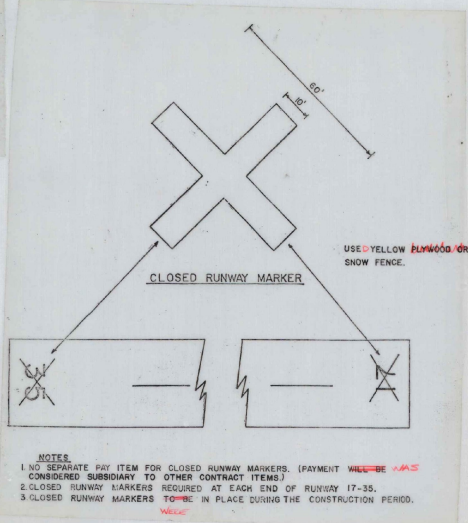


PROJ. AIR No 23-2010

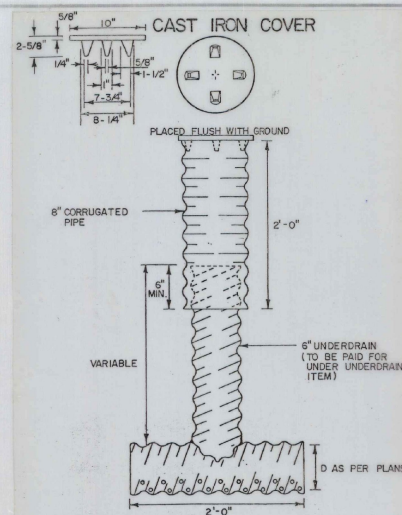
SHEET 2 OF 11



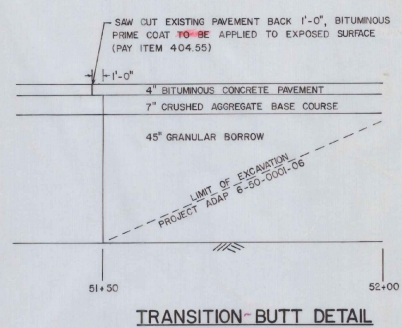
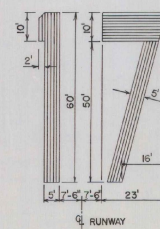
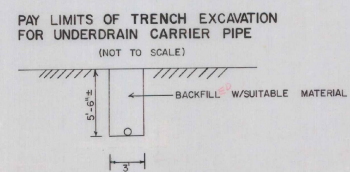
SUB-SOIL DATA
(FOR LOCATION OF HOLES,
SEE SHEET 5 OF 11 SHEETS.)



NOTES:
1. ALL RUNWAY MARKING SHALL BE WHITE AND STRIATED.
2. ALL RUNWAY DIMENSIONS ARE NOMINAL.
3. SEE DETAIL FOR STRIATED MARKING.
4. TYPICALLY, ADD 6" TO ALL WIDTHS.



UNDERDRAIN FLUSHING BASIN



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

MISCELLANEOUS DETAILS

ADAP NO. 6-50-0001-07

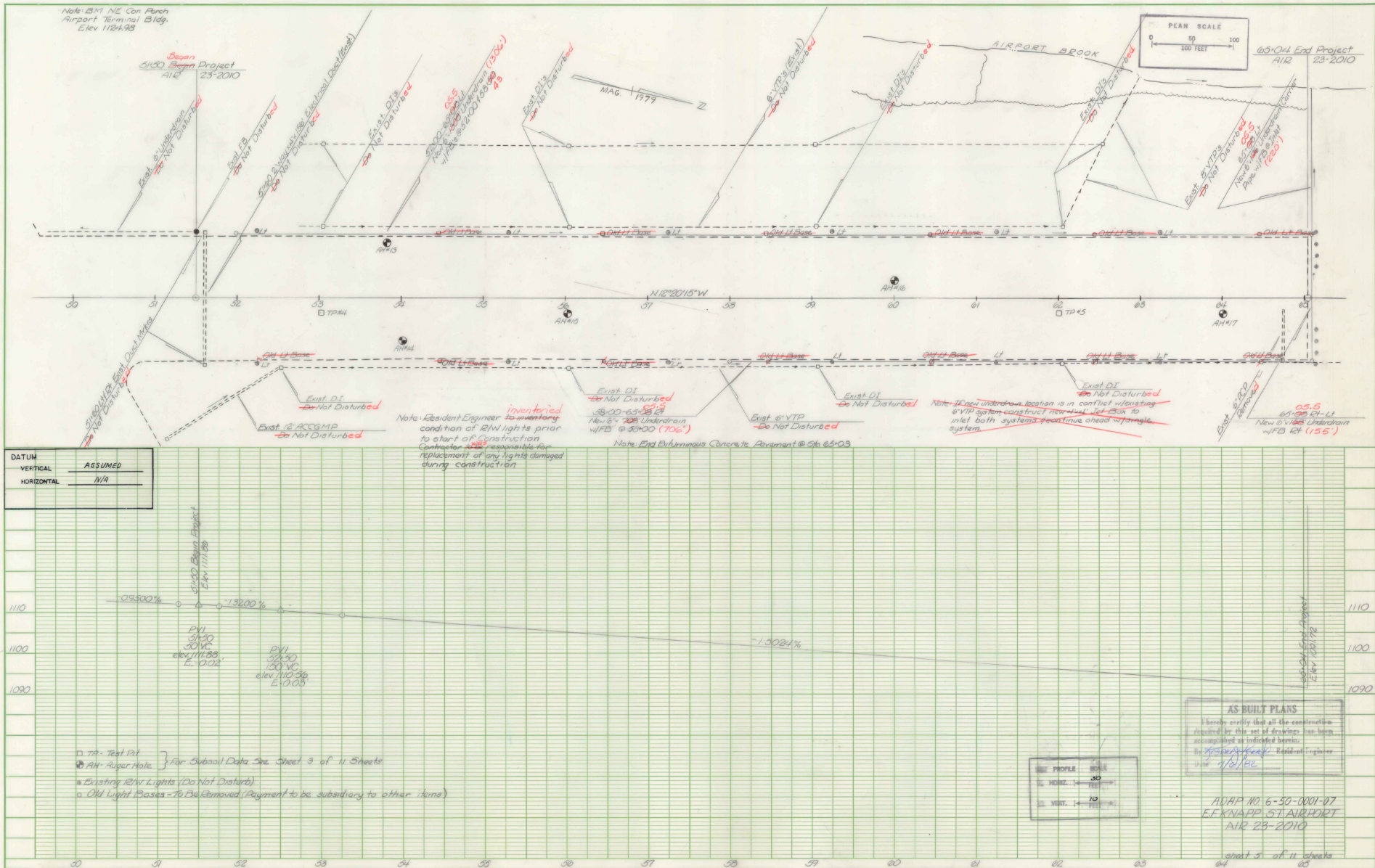
EDWARD F. KNAPP AIRPORT



STATE OF VERMONT
AGENCY OF TRANSPORTATION[illegible]

PLAN	DATE	BY	CHECKED
NOTE BOOK			
NO. 1			

PROFILE	DATE	BY	CHECKED
NOTE BOOK			
NO. 1			



FINAL SURVEY	DATE
IMPROVED UNIMPROVED	BY
NOTE BOOK	NO.

FINAL SURVEY	DATE
IMPROVED UNIMPROVED	BY
NOTE BOOK	NO.



52.00 LT 1300'
Begin Man Ex 1300 Underdrain at
Flushing Basins @ 52.00 1300 LT
1300'

01160
2 Way 11106
Electrical Ducts
Do Not Disturb

51.50
Begin Project
1112 23-2010

AS BUILT PLANS
I hereby certify that all the construction
required by this set of drawings has been
accomplished as indicated herein.
By 23-2010 23-2010 Resident Engineer
Date 11/1/10

STA	51.50	STA	51.50
TOWN	SPRING	TOWN	SPRING
PROJECT	1112 23-2010	PROJECT	1112 23-2010
SHEET	60	SHEET	60
HORIZ. AND VERT. SCALE		HORIZ. AND VERT. SCALE	
0	10	0	10
DATE		DATE	

DATE	BY	BY
PROJECT NO.	NO.	NO.
PROJECT NAME	PROJECT NAME	PROJECT NAME
PROJECT LOCATION	PROJECT LOCATION	PROJECT LOCATION
PROJECT DESCRIPTION	PROJECT DESCRIPTION	PROJECT DESCRIPTION

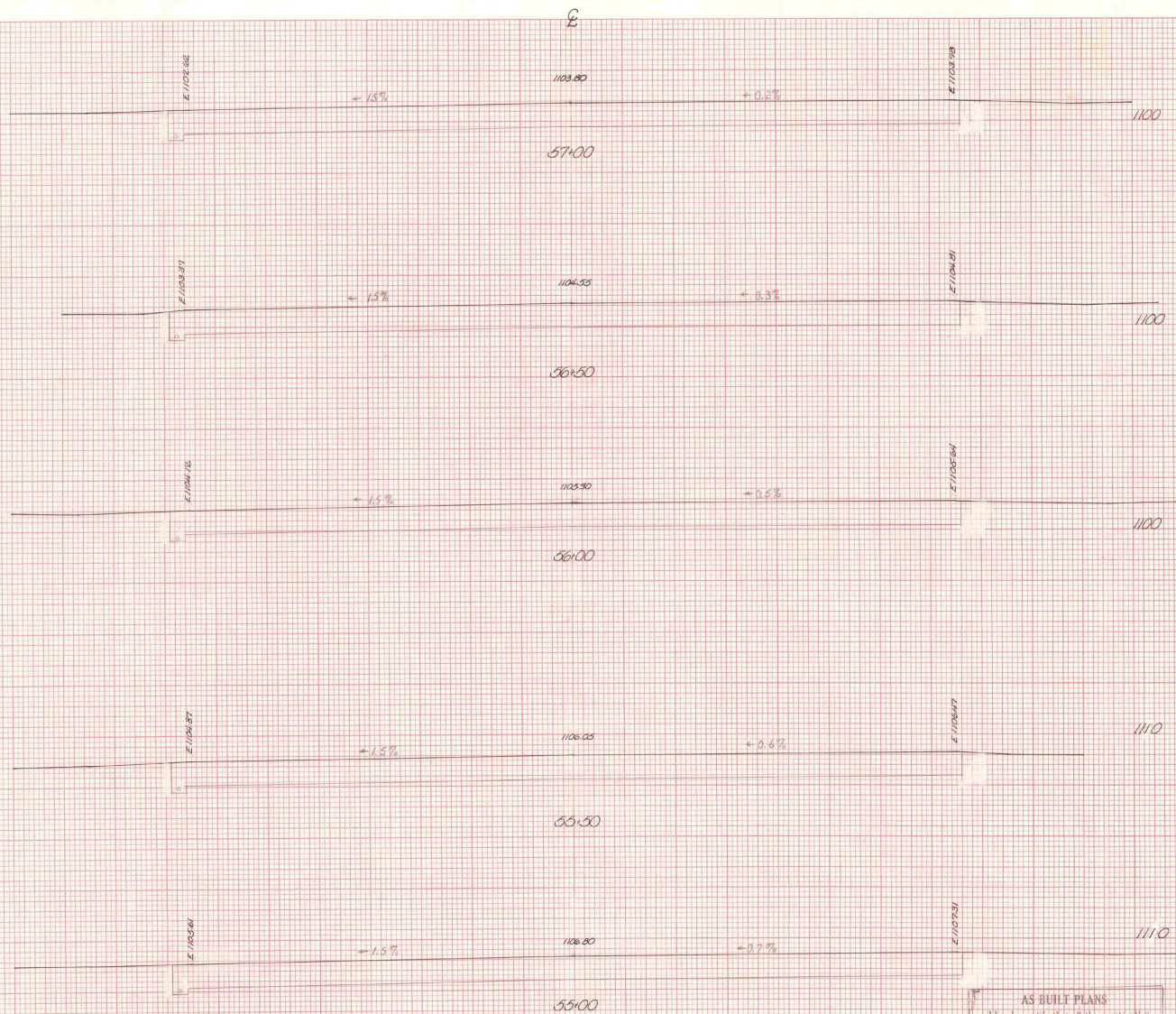
DATE	BY	BY
PROJECT NO.	NO.	NO.
PROJECT NAME	PROJECT NAME	PROJECT NAME
PROJECT LOCATION	PROJECT LOCATION	PROJECT LOCATION
PROJECT DESCRIPTION	PROJECT DESCRIPTION	PROJECT DESCRIPTION



STA. 52+75	STA. 54+50
TOWN 10	TOWN 10
PROJECT NO. 10	PROJECT NO. 10
SHEET 10	SHEET 10
HORIZ. AND VERT. SCALE	HORIZ. AND VERT. SCALE
DATE 12/15/10	DATE 12/15/10

FINAL SURVEY	REVISION REVISION	DATE
NO.	NO.	NO.

ORIGINAL SURVEY	REVISION REVISION	DATE
NO.	NO.	NO.



AS BUILT PLANS
 I hereby certify that all the construction
 required by this set of drawings has been
 accomplished as indicated herein.
 By James J. [Signature] Resident Engineer
 Date 11/16/2010

SHEET	NO.	DATE
1	1	11/16/2010

FINAL SURVEY NO.	REVISION NO.	DATE

ORIGINAL SURVEY NO.	REVISION NO.	DATE

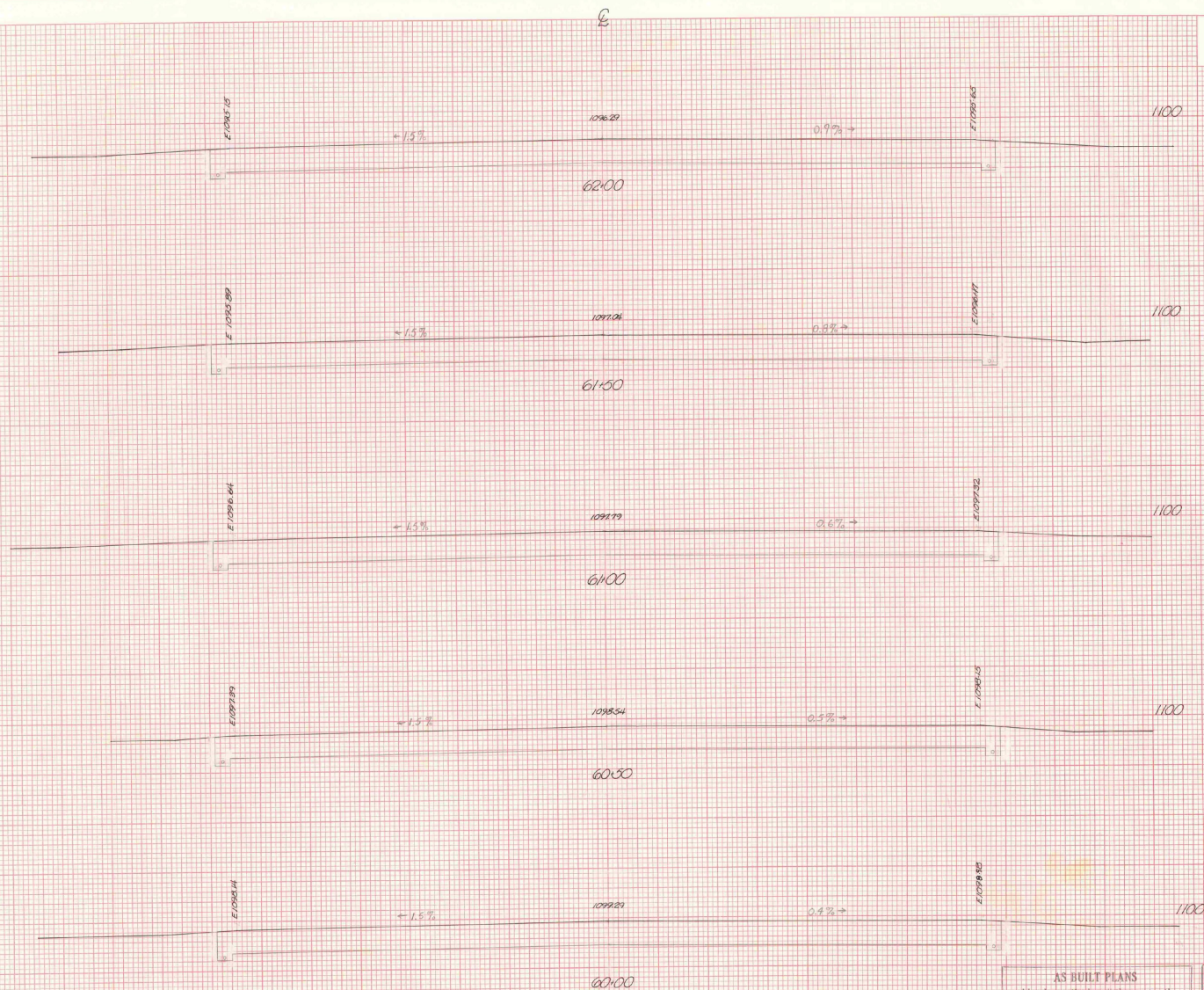


AS BUILT PLANS
 I hereby certify that all the construction required by this set of drawings has been completed as indicated therein.
 By Arthur J. P. [Signature] Engineer
 Date 4/1/80

STA. 100.00	STA. 103.05
PROJECT NO. 60-0306-01	SHEET 11 OF 11 SHEETS
HORIZ. AND VERT. SCALE	
DATE	

FINAL SURVEY	REVISION	BY	DATE
	NO.		

ORIGINAL SURVEY	REVISION	BY	DATE
	NO.		



AS BUILT PLANS
 I hereby certify that all the construction
 required by this set of drawings has been
 accomplished as indicated herein.
 By *[Signature]* Resident Engineer
 Date: *11/1/00*

SIA	100-000	SIA	100-000
PROJECT	100-000	PROJECT	100-000
SHEET	10	SHEET	10
HORIZ. AND VERT. SCALE		HORIZ. AND VERT. SCALE	
DATE	11/1/00	DATE	11/1/00

ORIGINAL SURVEY	BY	DATE
SURVIVED		
PLOTTED		
TEMPLATE		
AREAL		
AREAL CHECKED		

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

By John W. H. H. H. Resident Engineer
5-10-76/82

STA. 65+50 STA. 65+00
TOWN E. E. KNAPP AD. AIR 23-201
PROJECT ADDP NO. 6-50-0001-07
SHEET 11 OF 11 SHEETS
HORIZ. AND VERT. SCALE
1" = 40'
SURVED BY: _____ DATE _____

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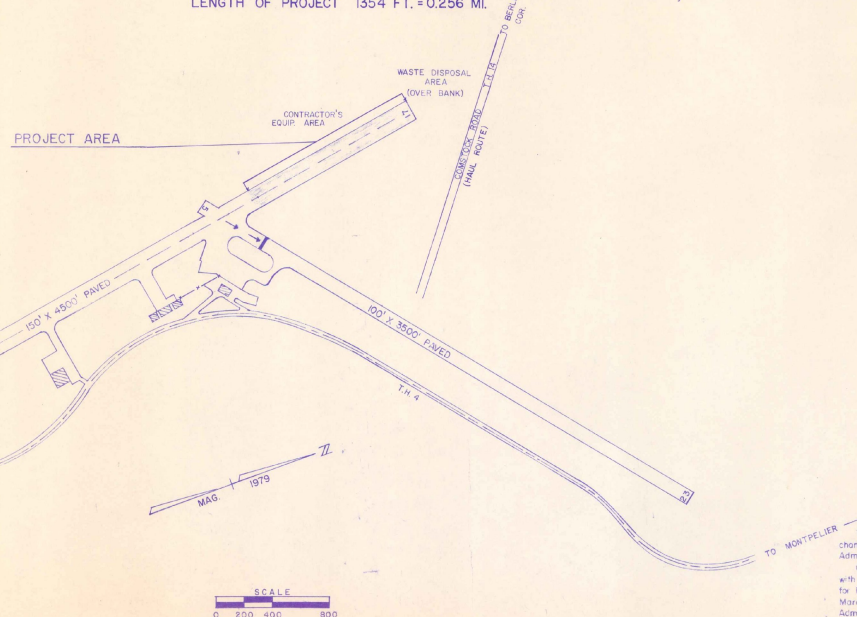
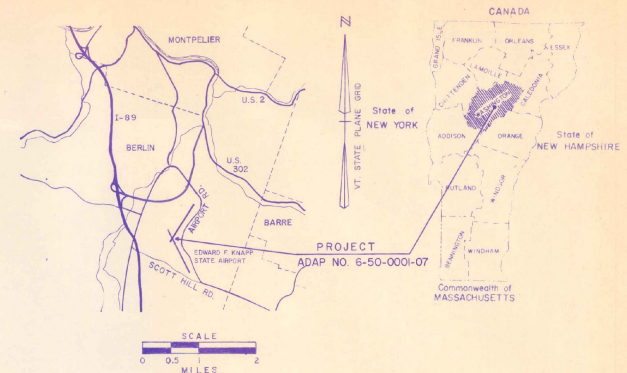
Sheet 1 of 1
 2.000' x 3.000' (60' x 90')
 1.000' x 1.500' (30' x 45')
 0.500' x 0.750' (15' x 22.5')

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT TOWN OF BERLIN COUNTY OF WASHINGTON EDWARD F. KNAPP STATE AIRPORT

ADAP NO. 6-50-0001-07
 RECONSTRUCTION OF THE NORTH END OF RUNWAY 17-35
 AND INSTALLATION OF NEW UNDERDRAIN
 LENGTH OF PROJECT 1354 FT. = 0.256 MI.



CONVENTIONAL SIGNS

COUNTY LINE	---
TOWN LINE	---
ROAD OF ACCESS	---
RAILROAD	---
STATE ROAD	---
TRUCKING ROUTE	---
RAILROAD	---
SURVEY LINE	---
TOILET	---
YEARLY TOILET	---
TELEPHONE POLE	---
TOILET	---
COUNTY OF ACCESS	---
PROPERTY LINE	---
ROAD TAKING LINE	---
SCOUR RIGHTS	---
TOP OF CUT	---
TOP OF SLOPE	---

DATUM	VERTICAL	ASSUMED
	HORIZONTAL	N/A

AS BUILT PLANS
 These plans are subject to engineering changes as may be required by the Federal Aviation Administration or the Director of Engineering and Construction. These plans are to be used in accordance with the Standard Specifications for Highway and Bridge Construction, dated March, 1976, as approved by the Federal Highway Administration on October 27, 1976, for use on this project, including all subsequent revisions and such revised specifications and special provisions as are incorporated in these plans.

ADAP NO. 6-50-0001-07

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED: *[Signature]* DATE: *[Date]*
 DIRECTOR OF ENGINEERING AND CONSTRUCTION

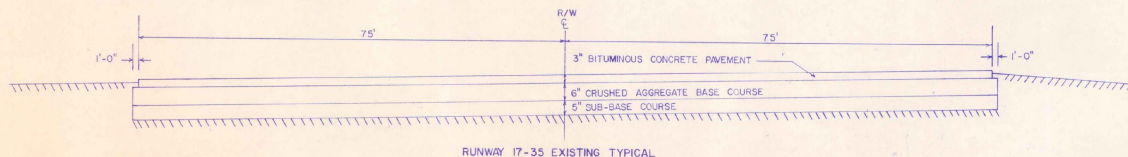
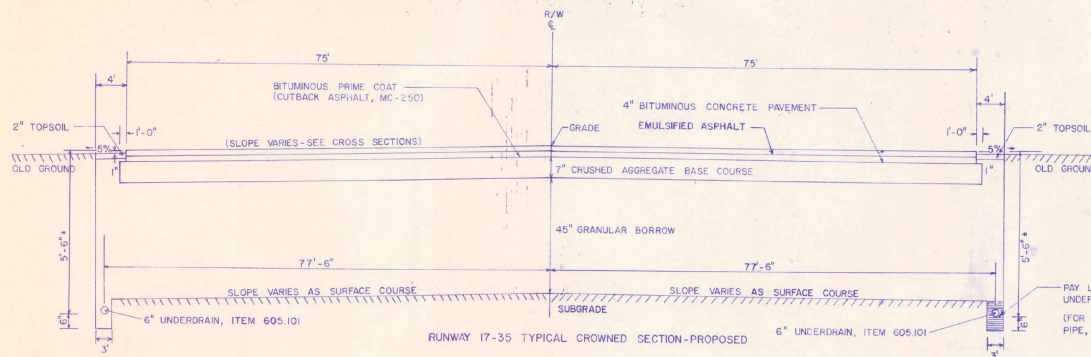
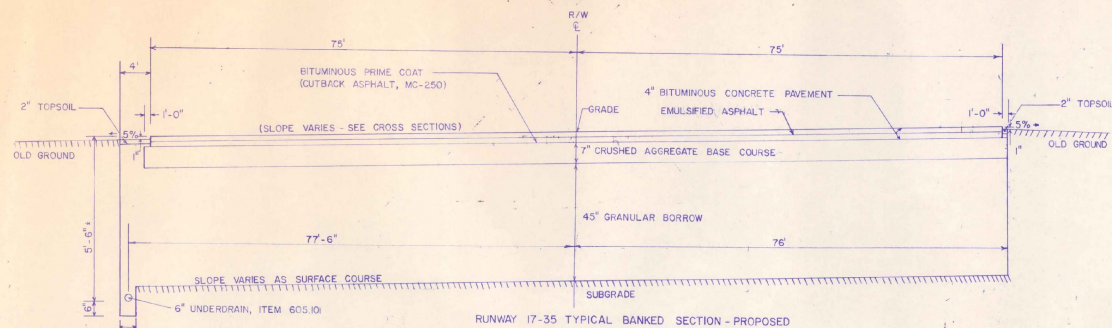
DEPARTMENT OF TRANSPORTATION
 FEDERAL AVIATION ADMINISTRATION

APPROVED: *[Signature]* DATE: *[Date]*
 CHIEF ENGINEERING BRANCH

PROJECT: AIR 23-200
 ADAP 6-50-0001-07
 SHEET 1 OF 1

TYPICAL SECTIONS

4" BITUMINOUS CONCRETE PAVEMENT, ITEM P-401 (2-2" LIFTS)* (PAY ITEM 853.02)
 BITUMINOUS PRIME COAT, ITEM 404.55 (CUTBACK ASPHALT, MC-250)
 7" CRUSHED AGGREGATE BASE COURSE, P-209 (PAY ITEM 853.07), GRADATION B
 45" GRANULAR BORROW, ITEM 203.25
 *EMULSIFIED ASPHALT, ITEM 404.65, BETWEEN LIFTS (2" TYPE B OVER 2" TYPE A)



GENERAL NOTES

SEED, ITEM 651.10				
TO BE APPLIED AS DIRECTED BY THE ENGINEER				
% WT	LBS/A	NAME	PUR %	GERM %
3.33	2	CROWN VETCH	97	75
50.00	30	CREeping RED FESCUE	98	85
8.33	5	TIMOTHY	99	85
16.67	10	PERENNIAL RYE GRASS (VAR. PENNINE)	95	85
8.34	5	ALFALFA (VAR. SARANAC)	99	85
8.33	5	BIRDFOOT TREFOIL (VAR. EMPIRE)	99	85
5.00	3	HIGHLAND BENT GRASS	92	85
100.00	60 LBS/ACRE			

THE SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS WEED SEED.

FERTILIZER, ITEM 651.15

FORMULA 10-20-10 TO BE USED WITH SEED, ITEM 651.10 APPLIED AT THE RATE OF 500 LBS/ACRE

AGRICULTURAL LIMESTONE, ITEM 651.20 TO BE APPLIED AT RATE OF 2 TONS/ACRE AS DIRECTED BY THE ENGINEER

HAY MULCH, ITEM 651.25 TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE

TOPSOIL, ITEM 653.10 TO BE USED WITH SEED, ITEM 651.10 AS DIRECTED BY THE ENGINEER

ALLOWABLE THICKNESS TOLERANCES *

SUB-BASE	± 1"
CONTROLLED MATERIAL	± 1"
PAVEMENT	± 1/4"
BASE COURSE	± 3/8"

*APPLIES TO TOTAL THICKNESS OF ALL LIFTS

NOTES

- SUB-GRADE UNDER AREAS TO BE PAVED TO BE COMPACTED TO 95% DENSITY AS PER FAA T-801 (AASHTO T-99).
- BITUMINOUS PRIME COAT TO BE APPLIED AS PER ITEM 404.55, SUBSECTION 404.06(C), TYPE I, USING MC-250.
- TOP 9" OF GRANULAR BORROW TO BE COMPACTED TO 100% DENSITY (AASHTO T-99).
- AREAS ADJACENT TO THE RUNWAY THAT ARE DISTURBED BY NEW CONSTRUCTION ARE TO BE GRADED, RAKED FREE OF STONES, COVERED WITH 2" OF TOPSOIL, SEED, AND ROLLED.

AS BUILT PLANS

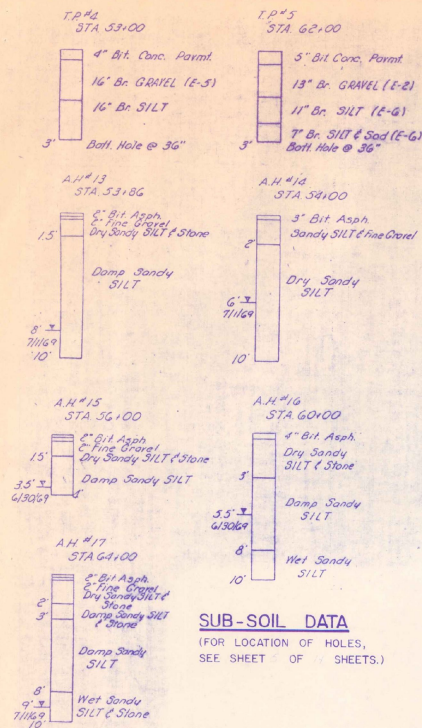
These plans show the results of a survey of the runway and taxiway areas of the airport. They are not to be used for construction purposes. For construction purposes, the engineer's plans should be used.

ADAP NO. 6-50-0001-07

EDWARD F. KNAPP AIRPORT

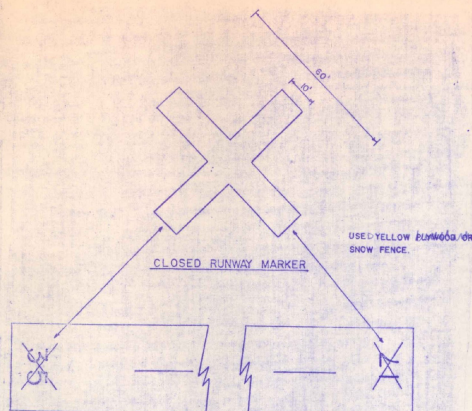


PROJ. AIR No 23-2010 SHEET 2 OF 11

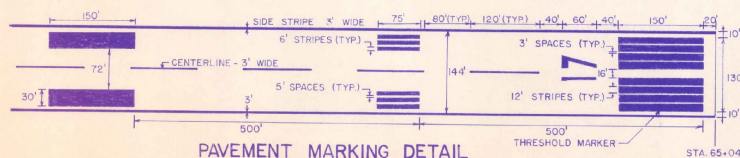
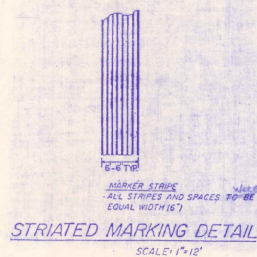


SUB-SOIL DATA

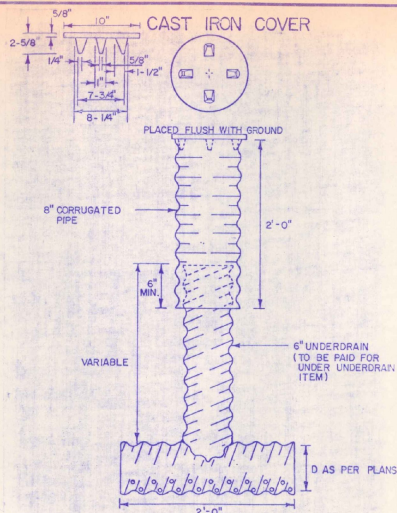
(FOR LOCATION OF HOLES, SEE SHEET OF SHEETS.)



- NOTES**
1. NO SEPARATE PAY ITEM FOR CLOSED RUNWAY MARKERS. (PAYMENT W/UNDERDRAIN WAS CONSIDERED SUBSIDIARY TO OTHER CONTRACT ITEMS.)
 2. CLOSED RUNWAY MARKERS REQUIRED AT EACH END OF RUNWAY 17-35.
 3. CLOSED RUNWAY MARKERS TO BE IN PLACE DURING THE CONSTRUCTION PERIOD.



- NOTES**
1. ALL RUNWAY MARKING SHALL BE WHITE AND STRIATED.
 2. ALL RUNWAY DIMENSIONS ARE NOMINAL.
 3. SEE DETAIL FOR STRIATED MARKING.
 4. TYPICALLY, ADD 6" TO ALL WIDTHS.

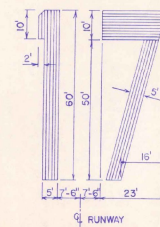
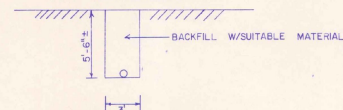


FLUSHING BASINS AT BEGINNING OF LINE SHALL HAVE A 90° ELBOW RATHER THAN A T AS SHOWN ABOVE. (ELBOW TO BE PAID FOR UNDER UNDERDRAIN ITEM)

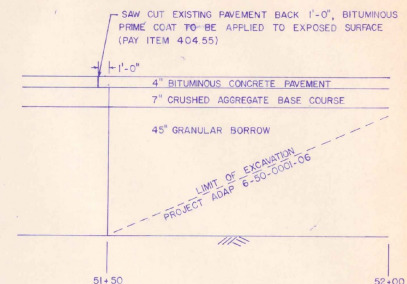
UNDERDRAIN FLUSHING BASIN

PAY LIMITS OF TRENCH EXCAVATION FOR UNDERDRAIN CARRIER PIPE

(NOT TO SCALE)



NUMERAL DETAILS



TRANSITION BUTT DETAIL

AS BUILT PLANS

Please verify that all the construction was in accordance with the drawings. If any changes have been made, please provide a written report to the Engineer.

MISCELLANEOUS DETAILS

ADAP NO. 6-50-0001-07
EDWARD F. KNAPP AIRPORT



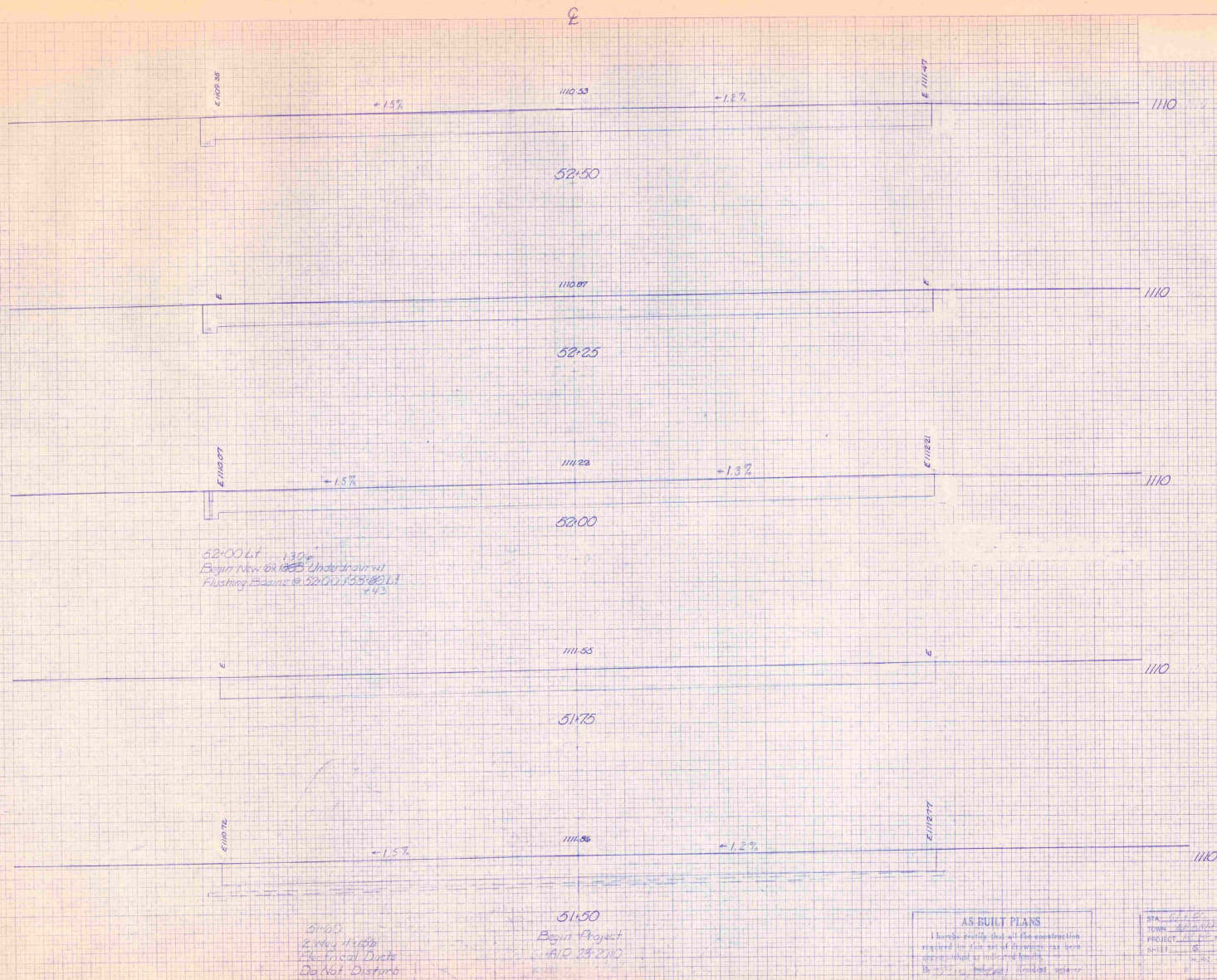
PROJ. AIR NO. 23-2010 SHEET 3 OF 11

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PROFILE		DATE
NAME	DATE	
NOTE BOOK	DATE	
STRUCTURE NOTATIONS CHECKED	DATE	

FINAL SURVEY	DATE 10/1/80	BY J. J. J.
DESIGN SURVEY	DATE 10/1/80	BY J. J. J.

DESIGN SURVEY	DATE 10/1/80	BY J. J. J.
DESIGN SURVEY	DATE 10/1/80	BY J. J. J.

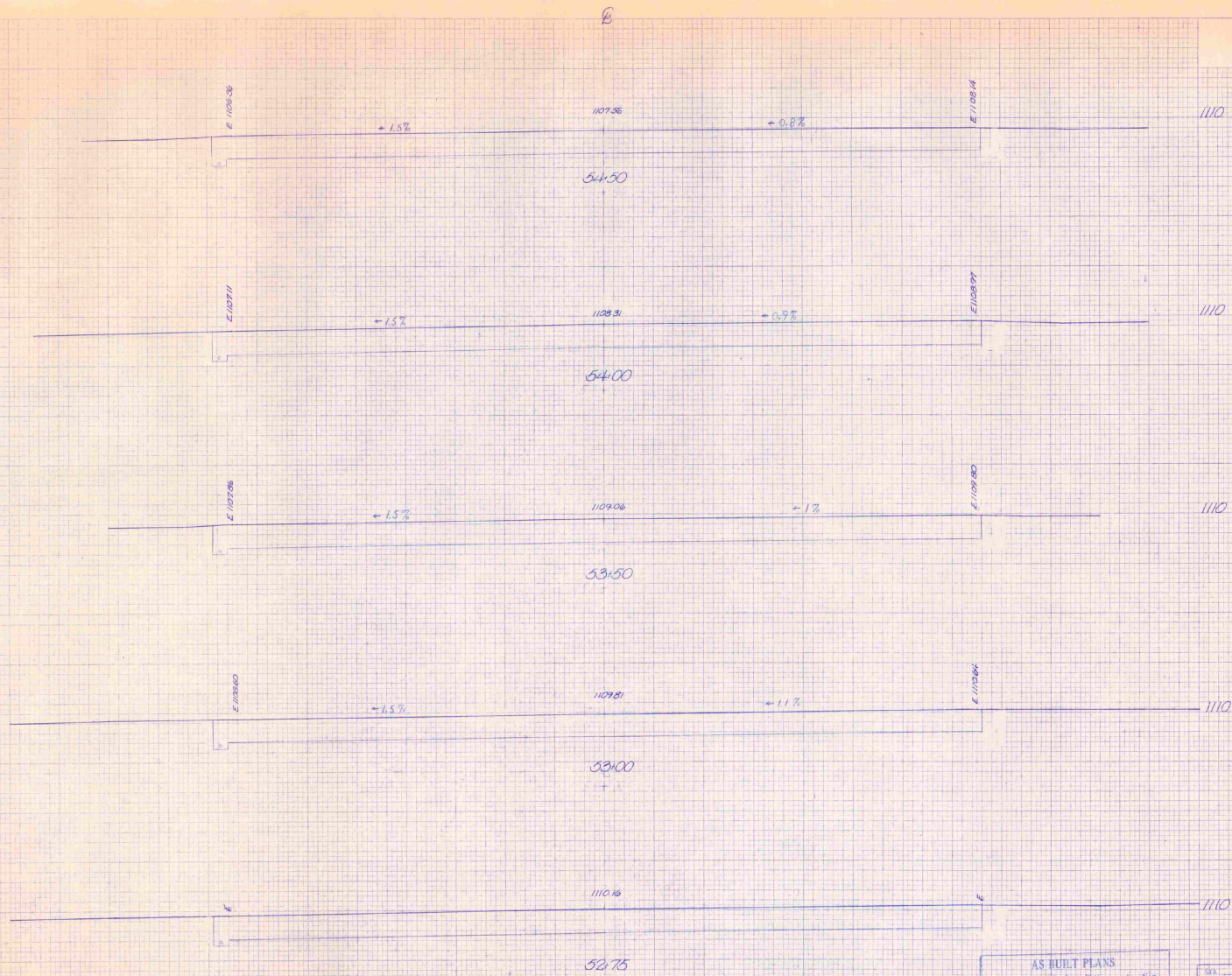


AS BUILT PLANS
I hereby certify that all the construction
required by this set of drawings has been
completed in accordance with the
plans and specifications.
Date 1/16/81

STA. 51+50	END 52+00
TURN 100' R	DATE 1/16/81
PROJECT 100' R	DATE 1/16/81
SHEET 100' R	DATE 1/16/81
PLAN AND VERT. SCALE	DATE 1/16/81
DATE 1/16/81	DATE 1/16/81

PROJECT NO.	1110
SECTION NO.	1110
DATE	11/1/50
BY	W. J. B. S.
CHECKED BY	W. J. B. S.
APPROVED BY	W. J. B. S.

PROJECT NO.	1110
SECTION NO.	1110
DATE	11/1/50
BY	W. J. B. S.
CHECKED BY	W. J. B. S.
APPROVED BY	W. J. B. S.

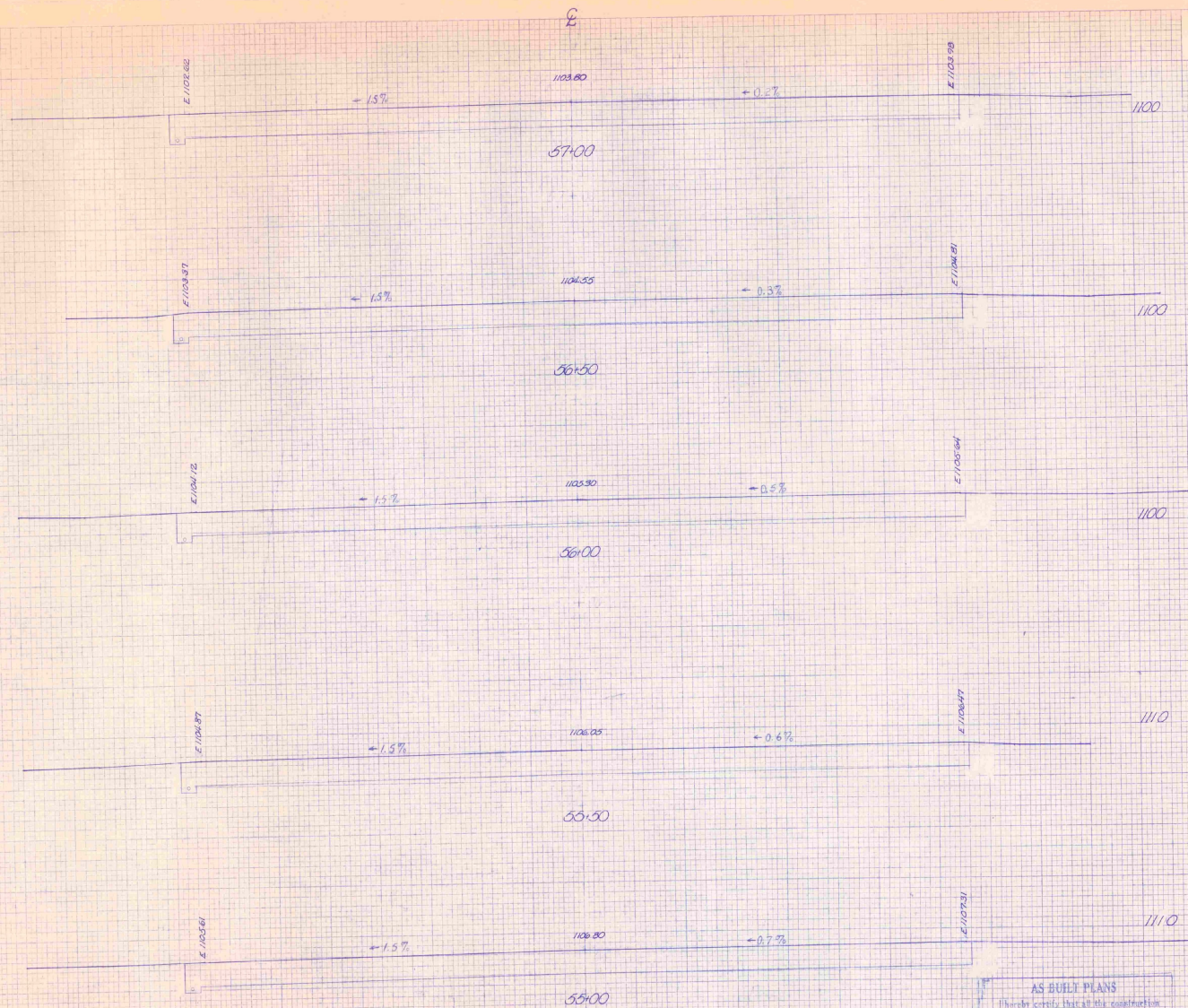


AS BUILT PLANS
 I hereby certify that all the construction
 required by this set of drawings has been
 accomplished as indicated herein.
 Date: 11/1/50
 W. J. B. S.

PROJECT NO.	1110
SECTION NO.	1110
DATE	11/1/50
BY	W. J. B. S.
CHECKED BY	W. J. B. S.
APPROVED BY	W. J. B. S.

DATE	BY
PROJECT	NO.
REVISION	DATE
BY	NO.

DATE	BY
PROJECT	NO.
REVISION	DATE
BY	NO.



AS BUILT PLANS
 I hereby certify that all the construction
 required by the said drawings has been
 accomplished as indicated herein.
 By James J. [Signature] President Engineer
 Date 12-22-20

DATE 12-22-20 BY [Signature]
 PROJECT EE RUMPT NO. 21-2010
 SHEET 2 OF 12 SHEETS
 SCALE 1" = 100'
 DATE 12-22-20

AS BUILT PLANS

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

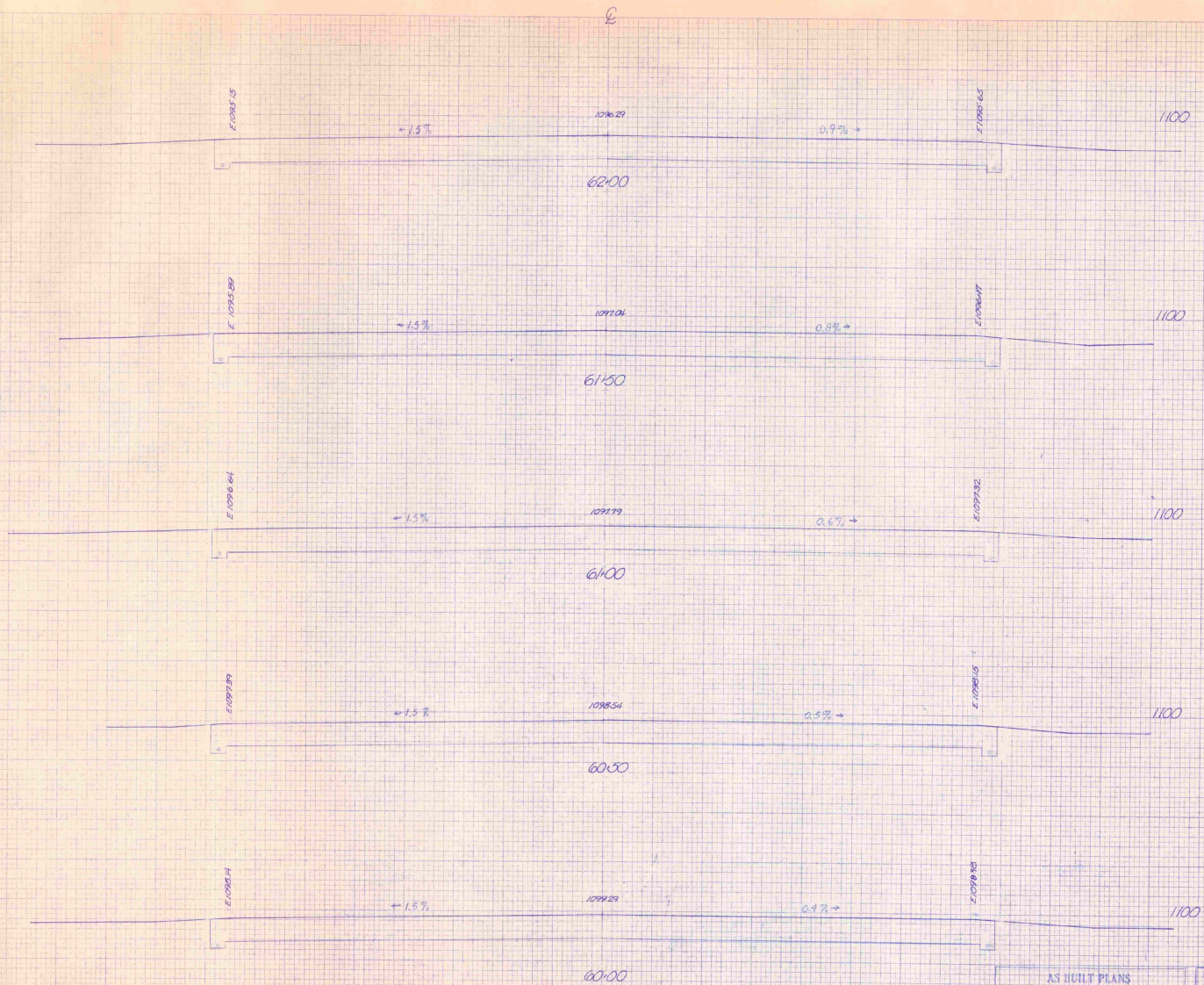
By James E. Ford Resident Engineer

Date 6/2/8

STA. 57+50 STA. 59+50
TOWN E. R. HARP AR AIR 123-2
PROJECT HARP NO. 2-50-004-07
SHEET 2 OF 11 SHEET
HORIZ. AND VERT. SCALE
1" = 100' 1" = 20'
DRAWN BY: DATE

FINAL
AS BUILT
ROUTE 100
COUNTY
STATE
DATE
BY

ORIGINAL
SURVEY
PROJECT
ROUTE 100
COUNTY
STATE
DATE
BY



AS BUILT PLANS

This certificate that all the construction
required by this set of drawings has been
accomplished in accordance therewith.
By James H. Smith Resident Engineer
Date 10/1/50

SHEET NO. 100 STA. 60:00 TO STA. 68:00
PROJECT ROUTE 100, COUNTY OF ...
DATE 10/1/50
SHEET 100
SCALE 1" = 40'
DATE 10/1/50

