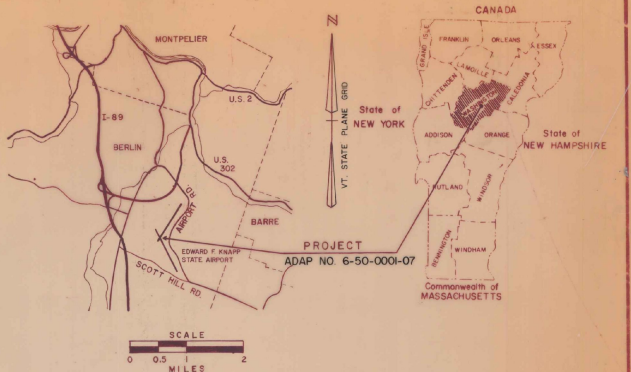
INDEX OF SHEETS

1. Title Sheet
2. Typical Sheet
3. Misc. Details
4. Item Quantity & Grade Sheet
5. Plan & Profile Sheet
6-11. Cross Sections

STATE OF VERMONT
AGENCY OF TRANSPORTATION

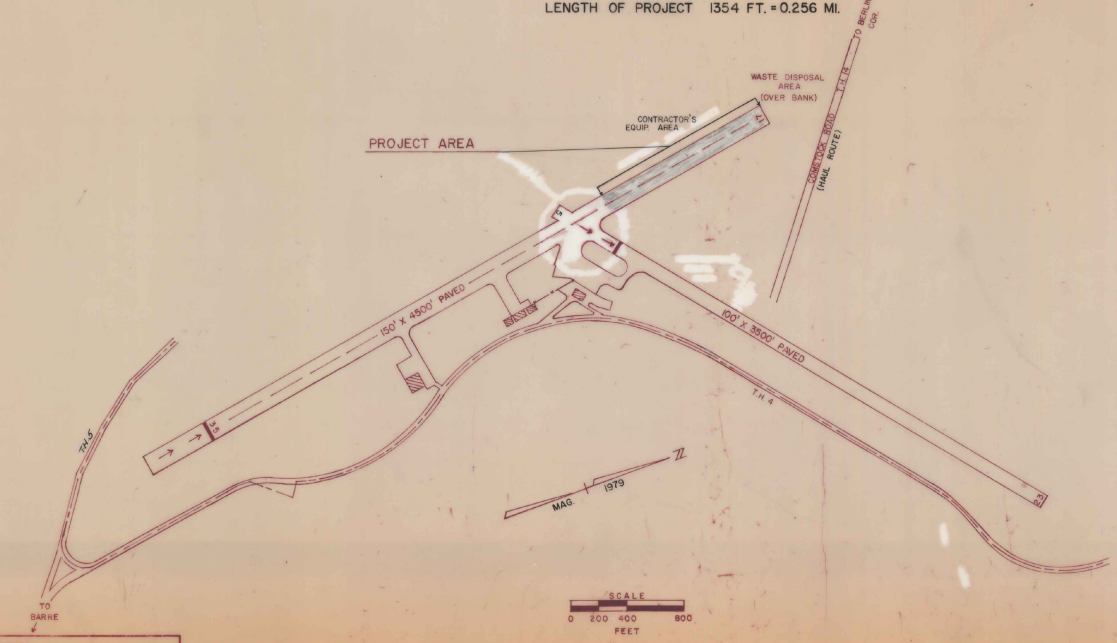


PROPOSED IMPROVEMENT
TOWN OF BERLIN
COUNTY OF WASHINGTON
EDWARD F. KNAPP STATE AIRPORT

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
TREES
CONTROL OF ACCESS
PROPERTY LINE
R.O.W. TAKING LINE
SLOPE RIGHTS
TOP OF CUT
TOE OF SLOPE

DATUM
VERTICAL ASSUMED
HORIZONTAL N/A

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 _____

These plans are subject to such engineering changes as may be required by the Federal Aviation Administration or the Director of Engineering and Constr.

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.

ADAP NO. 6-50-0001-07

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED _____ DATE _____

DIRECTOR OF ENGINEERING AND CONSTRUCTION

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

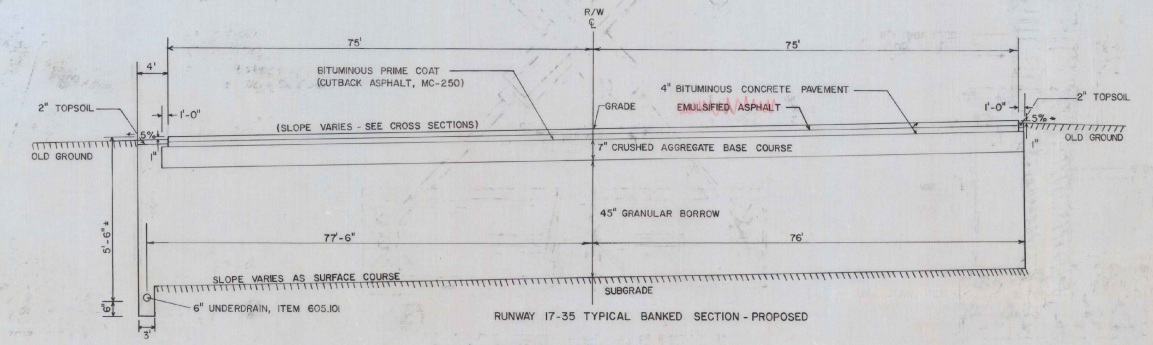
APPROVED _____ DATE _____

CHIEF, ENGINEERING BRANCH

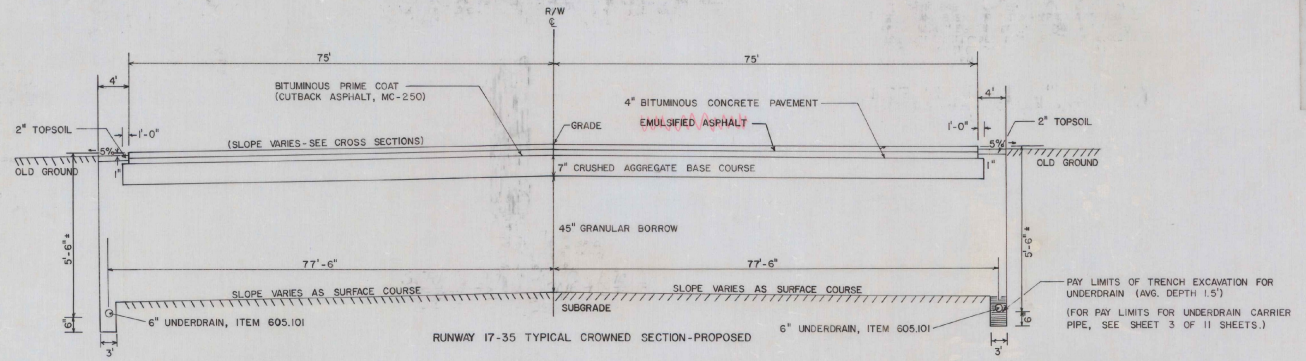
PROJECT AIR No. 23-2010
ADAP 6-50-0001-07
SHEET 1 OF 11 SHEETS

TYPICAL SECTIONS

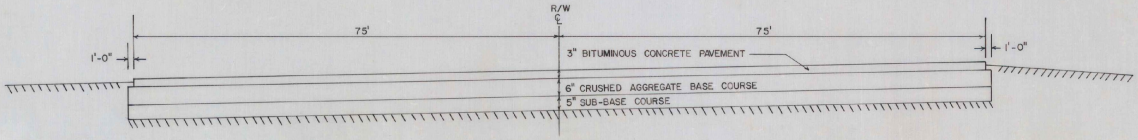
4" BITUMINOUS CONCRETE PAVEMENT, ITEM P-401 (2-2" LIFTS) * (PAY ITEM 853.02)
BITUMINOUS PRIME COAT, ITEM 404.55 (CUTBACK ASPHALT, MC-250)
7" CRUSHED AGGREGATE BASE COURSE, P-209 (PAY ITEM 853.07), GRADATION B
45" GRANULAR BORROW, ITEM 203.25
* EMULSIFIED ASPHALT, ITEM 404.65, BETWEEN LIFTS (2" TYPE B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



RUNWAY 17-35 TYPICAL BANKED SECTION - PROPOSED



RUNWAY 17-35 TYPICAL CROWNED SECTION - PROPOSED



RUNWAY 17-35 EXISTING TYPICAL

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. PENNFINE)	95	85
8.34	5	ALFALFA (VAR. SARANAC)	99	85
8.33	5	BIRDSFOOT 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

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

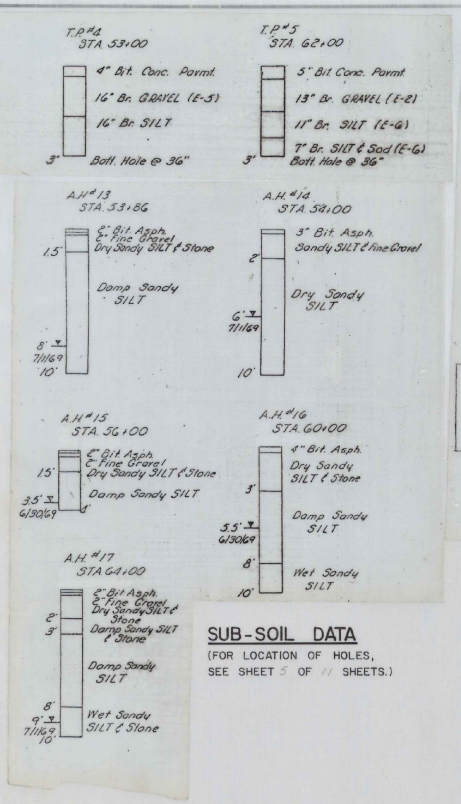
AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
By _____ Resident Engineer
Date _____

ADAP NO. 6-50-0001-07

EDWARD F. KNAPP AIRPORT

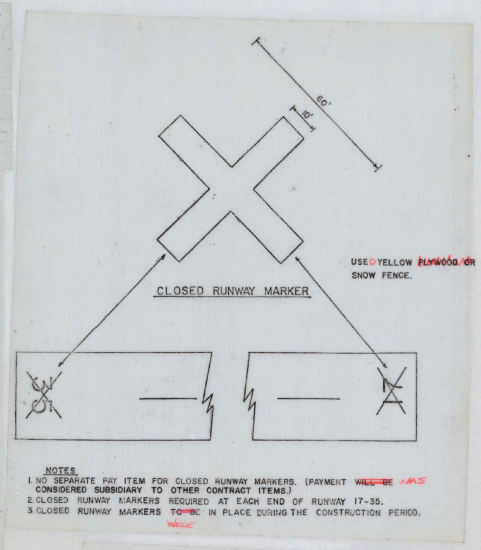
VERMONT AGENCY OF TRANSPORTATION

PROJ. AIR NO 23-2010 | SHEET 2 OF 11

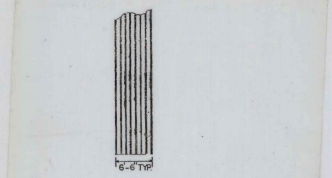


SUB-SOIL DATA

(FOR LOCATION OF HOLES, SEE SHEET 5 OF 11 SHEETS.)

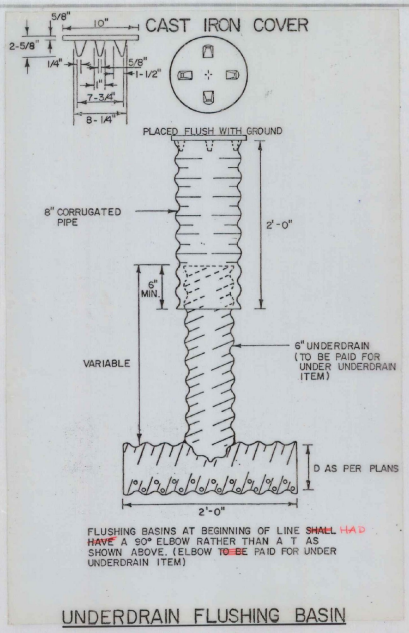


NOTES:
1. NO SEPARATE PAY ITEM FOR CLOSED RUNWAY MARKERS. (PAYMENT WILL BE AS CONSIDERED SUBSIDIARY TO OTHER CONTRACT ITEMS.)
2. CLOSED RUNWAY MARKERS REQUIRED AT EACH END OF RUNWAY 17-35.
3. CLOSED RUNWAY MARKERS TO BE IN PLACE DURING THE CONSTRUCTION PERIOD. WERE



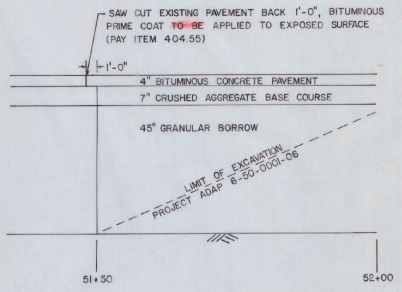
STRIATED MARKING DETAIL

SCALE: 1"=12'



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

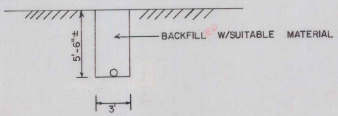
UNDERDRAIN FLUSHING BASIN

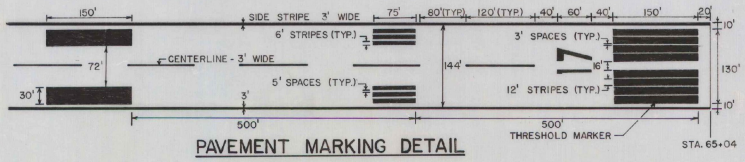


TRANSITION-BUTT DETAIL

PAY LIMITS OF TRENCH EXCAVATION FOR UNDERDRAIN CARRIER PIPE

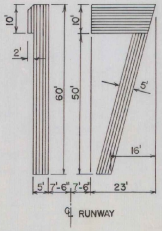
(NOT TO SCALE)





PAVEMENT MARKING DETAIL

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.



NUMERAL DETAILS

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

VERMONT AGENCY OF TRANSPORTATION

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

QUANTITY, EARTHWORKS, DRAINAGE AND ITEM DETAIL SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

EROSION CONTROL	BRIDGE	RUNWAY CONSTRUCTION	GRAND TOTAL	UNIT	PAY ITEM	PAY ITEM NUMBER	CODES
		37000	37000	CY	Common Excavation	203.15	49
		100	100	CY	Solid Rock Excavation (est)	203.16	
		33,700	33,700	CY	Granular Borrow (Fustered)	203.32	37
		475	475	CY	Trench Excavation of Earth	204.20	5
		10	10	CY	Trench Excavation of Rock (est)	204.21	
		475	475	GAL	Cutback Asphalt (MC-250)	404.55	41
		80	80	GAL	Emulsified Asphalt	404.05	42
		2	2	CY	Concrete Class B (est)	501.25	
		200	200	LB	Reinforcing Steel (est)	507.15	
		2200	2200	LF	6" Underdrain	605.101	28
		176	176	LF	6" Underdrain Carrier Pipe (est)	605.151	
		3	3	EA	Underdrain Flushing Basin	605.95	
		16	16	HR	All Purpose Excavator Rental, Type I (est)	608.45	
		16	16	HR	Truck Rental (est)	608.37	
		100	100	MGAL	Dust Control w/ Water (est)	609.10	
		1	1	L.S	Field Office - Engineers	631.10	
		1	1	L.S	Mobilization	635.10	
		120	120	LB	Seed (est)	651.10	
		1000	1000	LB	Fertilizer (est)	651.15	
		4	4	TON	Agricultural Limestone (est)	651.20	
		4	4	TON	Hay Mulch (est)	651.25	
		75	75	CY	Topsoil	653.10	8
		5020	5020	TON	Bituminous Concrete Pavement	853.02	62
		1	1	L.S	Runway & Taxiway Painting	853.05	
		14450	14450	CY	Crushed Aggregate Base Course	803.07	4

DETAILED SUMMARY OF QUANTITIES

QUANTITY	UNIT	PAY ITEM

GRADES AND EARTHWORK

V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON V CURVE	V.C. CORR.	DIST (FT)	TOTAL EXCAV. EARTH & ROCK AREA (SF)	TOTAL EXCAV. EARTH & ROCK VOL. (CY)	ROCK EXCAVATION AREA (SF)	ROCK EXCAVATION VOL. (CY)	EMBANKMENT AREA (SF)	EMBANKMENT VOL. (CY)
		RW 17	1112.35									
		51	1112.35									
		+25	1112.12	1112.12	0.00							
		+45	1111.93	1111.92	-0.01							
		+50	1111.88	1111.86	-0.02		Begin Project AIR 23-2010					
		+75	1111.56	1111.55	0.00							
		52	1111.22	1111.22	0.00							
		+25	1110.89	1110.87	-0.02							
		+50	1110.56	1110.53	-0.03							
		+75	1110.13	1110.16	-0.02							
		53	1109.81	1109.81	0.00							
		+25	1109.43	1109.43	0.00							
		+50	1109.06									
		54	1108.31									
		+50	1107.56									
		55	1106.80									
		+50	1106.05									
		56	1105.30									
		+50	1104.55									
		57	1103.80									
		+50	1103.05									
		58	1102.30									
		+50	1101.55									
		59	1100.79									
		+50	1100.04									
		60	1099.29									
		+50	1098.54									
		61	1097.79									
		+50	1097.04									
		62	1096.29									
		+50	1095.54									
		63	1094.78									
		+50	1094.03									
		64	1093.28									
		+50	1092.53									
		65	1091.78									
		+04	1091.72				End Project AIR 23-2010					

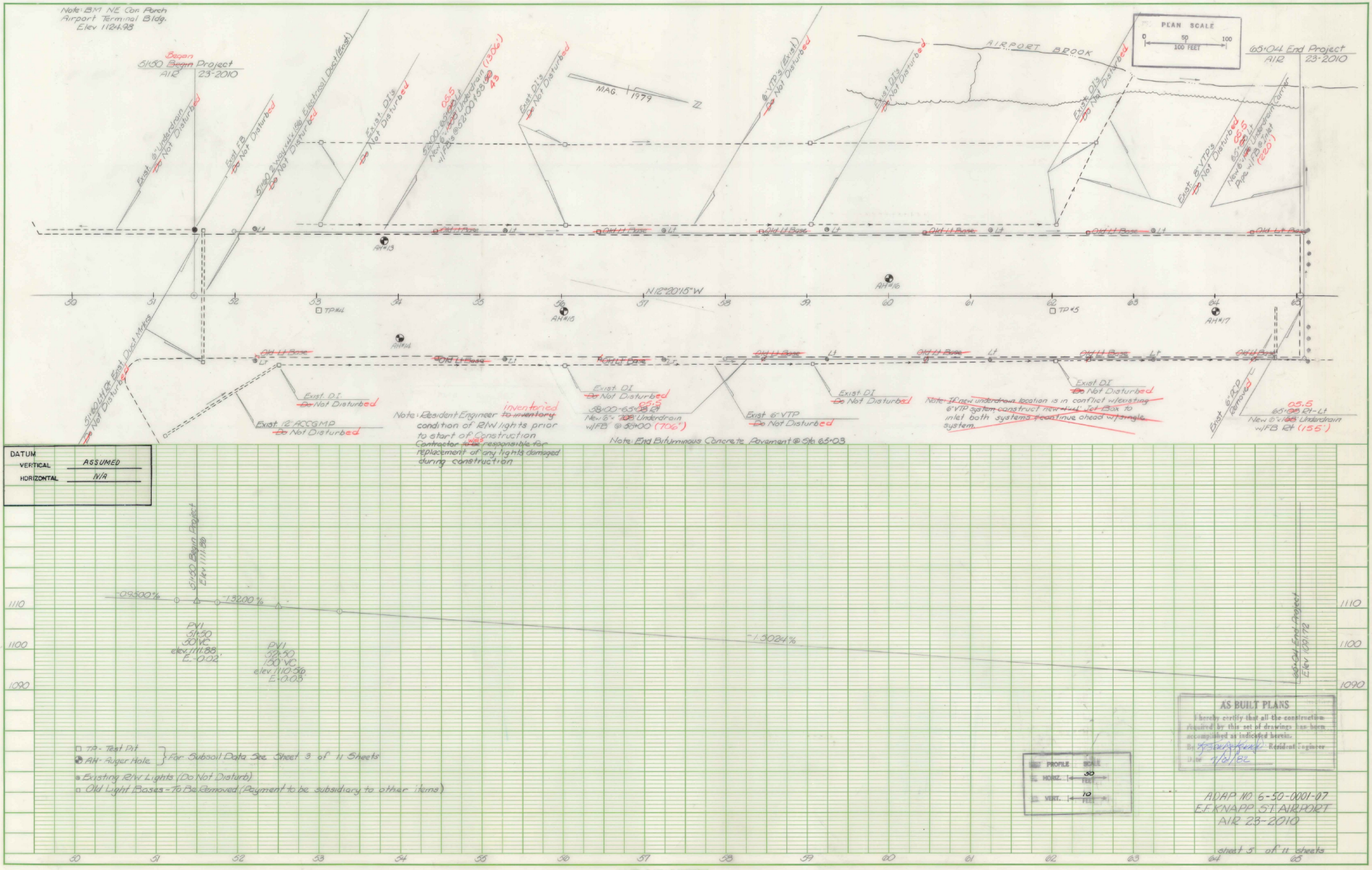
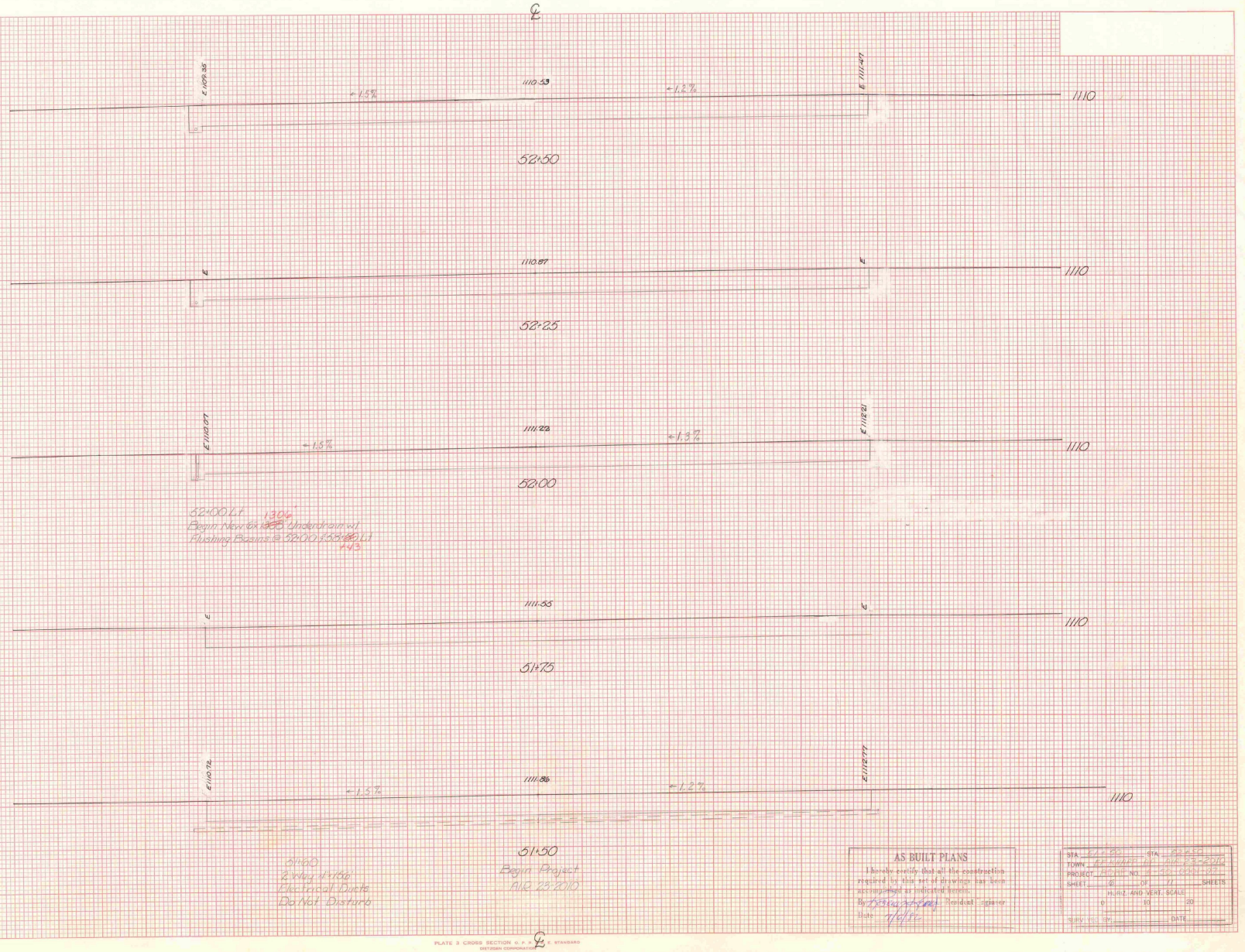


PLATE 1, PLAN-PROFILE

K&E KEUFFEL & ESSER CO.

46 7024 Made in U.S.A.



AS BUILT PLANS

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

By Steven A. Fyfe Resident Engineer

Date 9/6/12

STA. 51+50 STA. 52+50

TOWN Ashford DATE 8-25-2010

PROJECT F-0151(1) NO. 170-151-0001 PE

SHEET 40 OF 77 SHEETS

HORIZ. AND VERT. SCALE

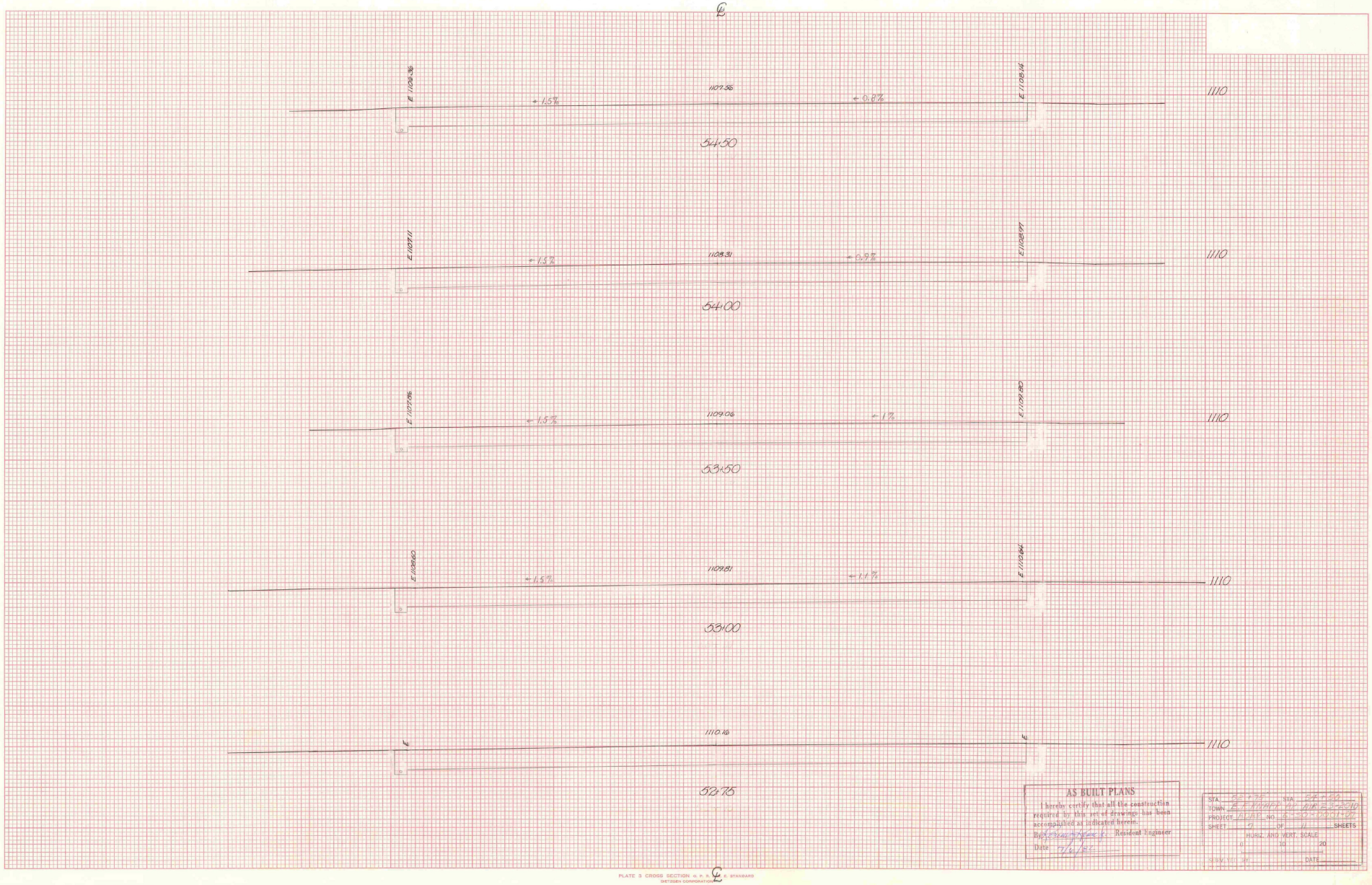
0 10 20

SURV. BY: DATE

PLATE 3 CROSS SECTION O. P. P. E. STANDARD
DIETZGEN CORPORATION

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
ITEMS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
ITEMS
AREAS CHECKED
BY
DATE



AS BUILT PLANS

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

By _____ Resident Engineer

Date 7/6/82

STA 50+75 STA 54+50

TOWN BETHANY, WOODBRIDGE

PROJECT 10-168 NO. 10-50-0201-00

SHEET 41 OF 44 SHEETS

HORIZ. AND VERT. SCALE

0 10 20

SURVEYED BY _____ DATE _____

FINAL SURVEY

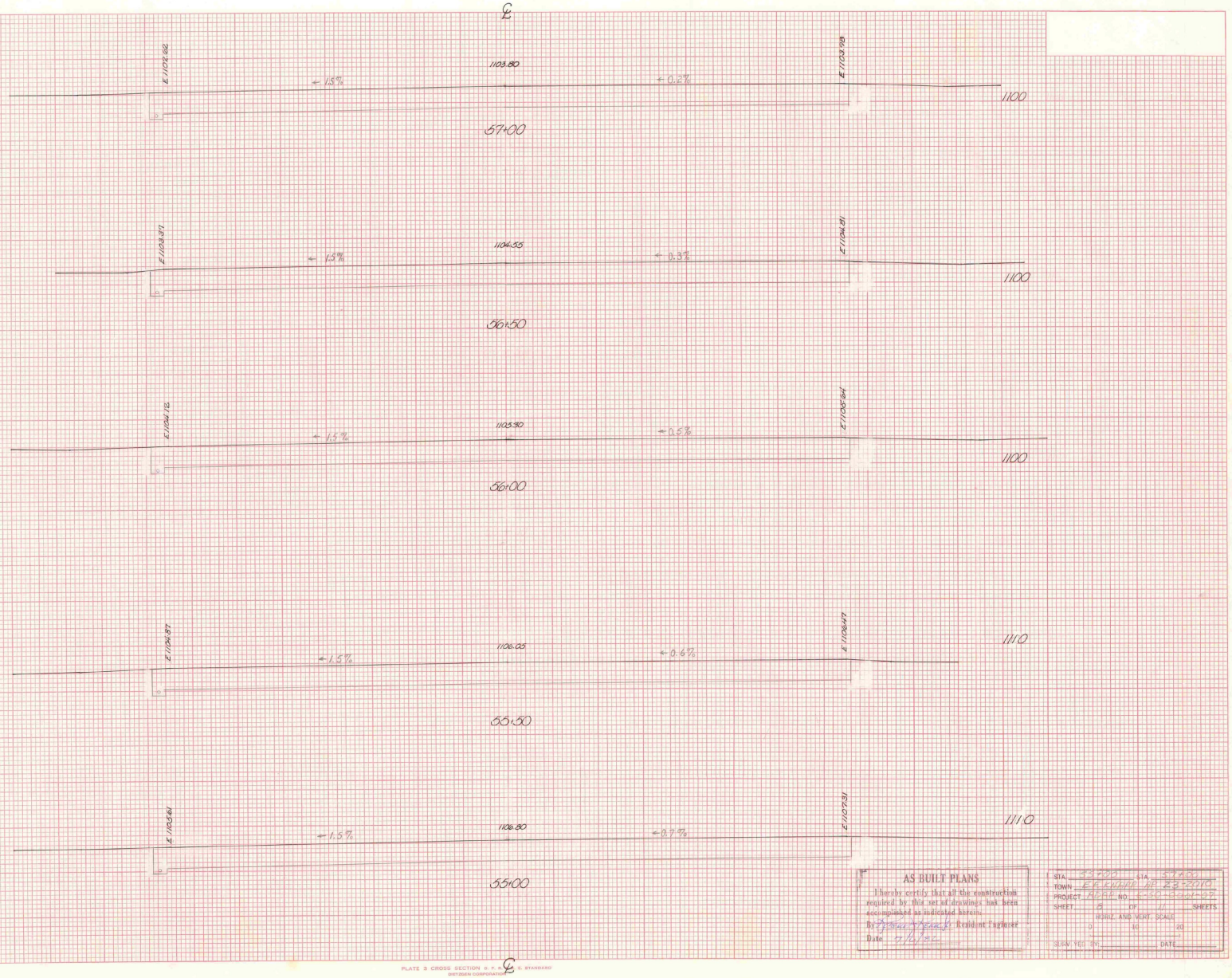
NO.	NOTE BOOK	SURVEYED	BY	DATE
		PLOTTED		
		TEMPLATE		
		AREAS		
		AREAS CHECKED		

ORIGINAL SURVEY

NO.	NOTE BOOK	SURVEYED	BY	DATE
		PLOTTED		
		TEMPLATE		
		AREAS		
		AREAS CHECKED		

PLATE 3 CROSS SECTION C. P. S. E. STANDARD

SHETZGEN CORPORATION



FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS CHECKED
BY
DATE

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 7/6/15

STA 53+20 STA 57+00
TOWN EBENSBURG BORO
PROJECT NHPP NO. 1550-10-NHPP
SHEET 4 OF 11 SHEETS
HORIZ. AND VERT. SCALE
0 10 20
SURV. FILE BY DATE

PLATE 3 CROSS SECTION O. P. T. C. STANDARD
DIETZGEN CORPORATION

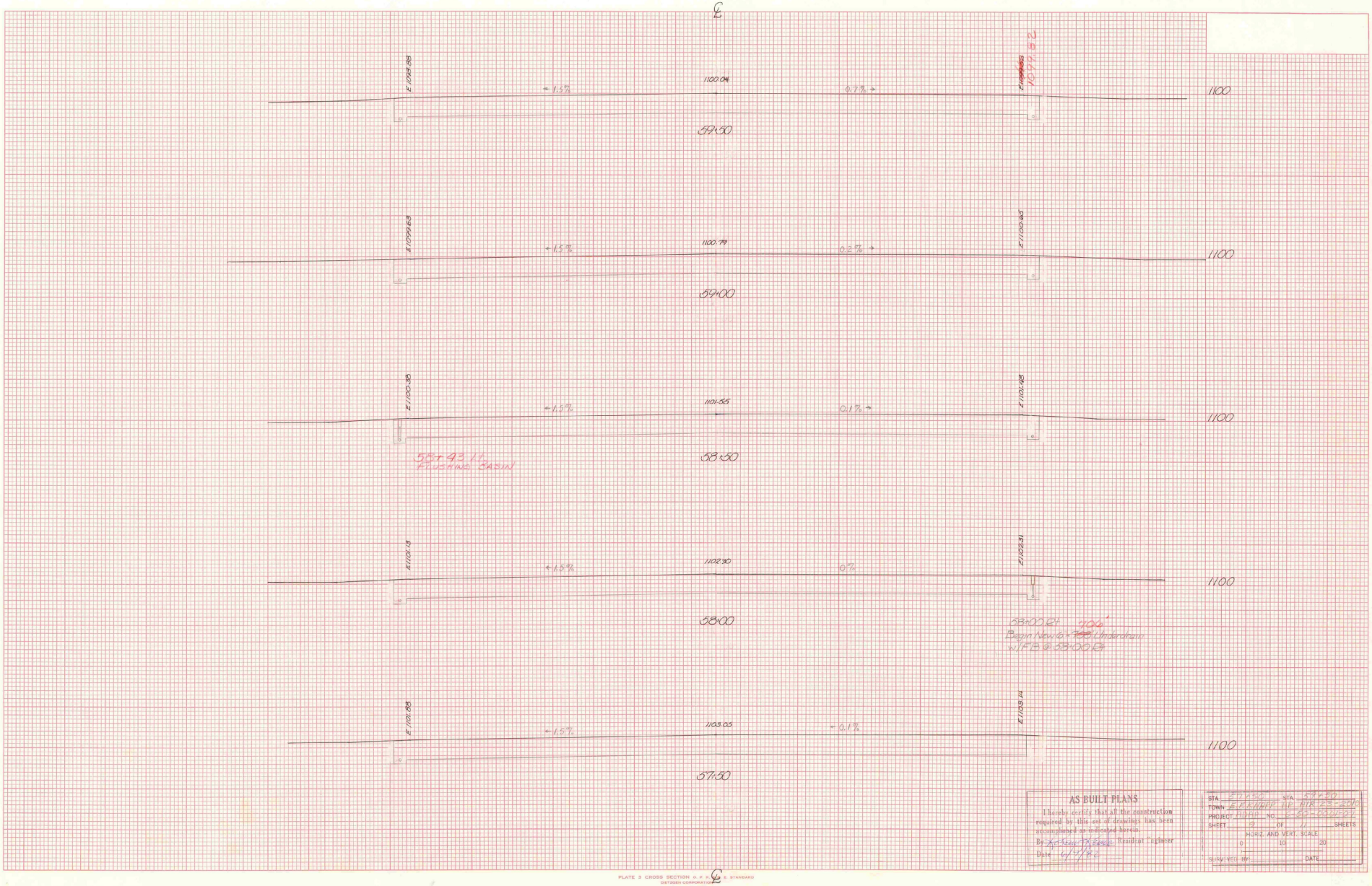


PLATE 3 CROSS SECTION O. P. R. & E. STANDARD
DIETGEN CORPORATION

FINAL SURVEY
NOTE BOOK
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SURVEYED
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TYPED
AREAS
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ORIGINAL SURVEY
NOTE BOOK
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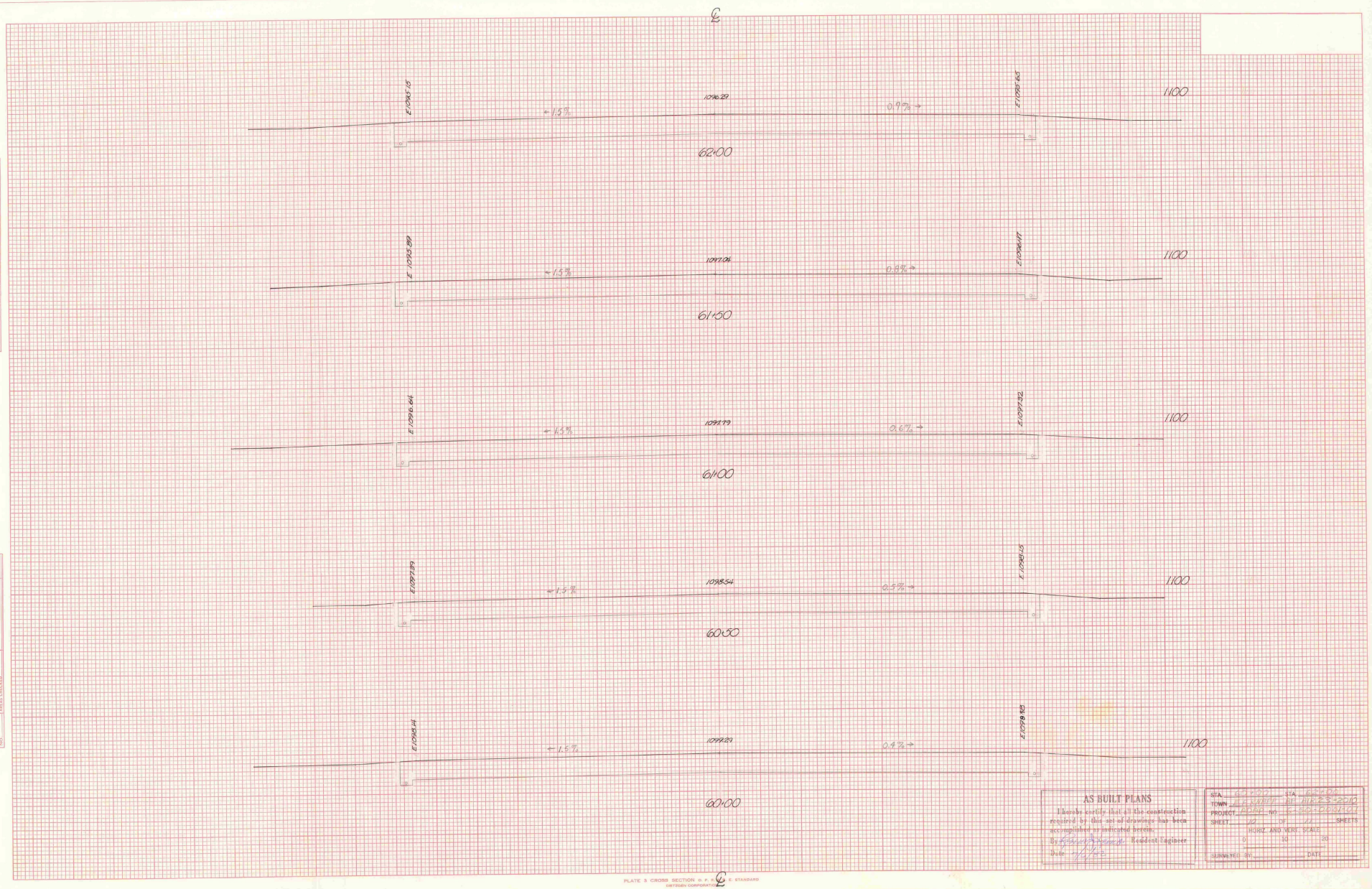
AS BUILT PLANS

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

By Richard K Reed Resident Engineer

Date 6/10/86

STA 57+50 STA 59+50
TOWN Gateway TF R/R 25 Sch
PROJECT [illegible] NO. [illegible]
SHEET 3 OF [illegible] SHEETS
HORIZ. AND VERT. SCALE
0 10 20
SURVEYED BY DATE



FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TRACED
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TRACED
AREAS CHECKED
BY
DATE

AS BUILT PLANS

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

By _____ Resident Engineer

Date _____

STA. _____ STA. _____

TOWN _____

PROJECT _____ NO. _____

SHEET _____ OF _____ SHEETS

HORIZ. AND VERT. SCALE

0 10 20

SURVEYED BY _____ DATE _____

PLATE 3 CROSS SECTION D. P. W. E. STANDARD

DIETZGEN CORPORATION

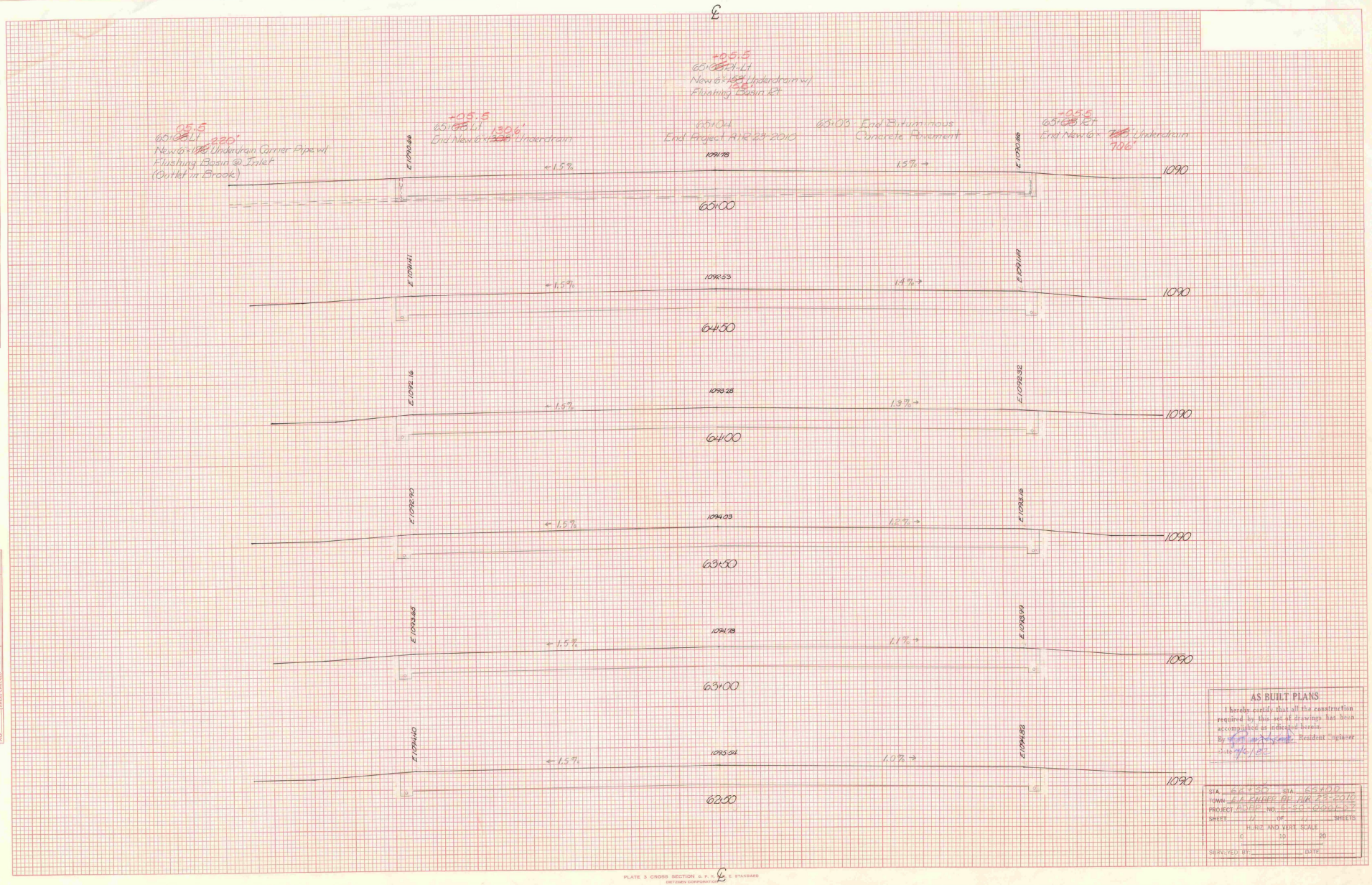


PLATE 3 CROSS SECTION ℄ O. P. S. C. STANDARD
DIETZGEN CORPORATION

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
ISSUED
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
ISSUED
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BY
DATE

AS BUILT PLANS

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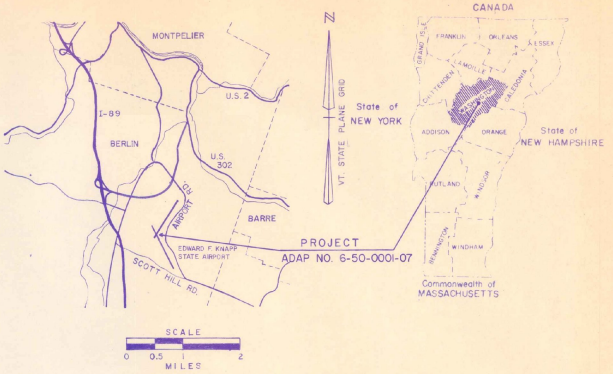
By _____ Resident Engineer

Date 7/27/10

STA. 65+05.5 STA. 65+00.0
TOWN EAST HAVEN BR. NO. 23-2016
PROJECT AHE-29-2010 NO. 170-150
SHEET ____ OF ____ SHEETS
HORIZ. AND VERT. SCALE
0 5D 20
SURVEYED BY: _____ DATE: _____

INDEX OF SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

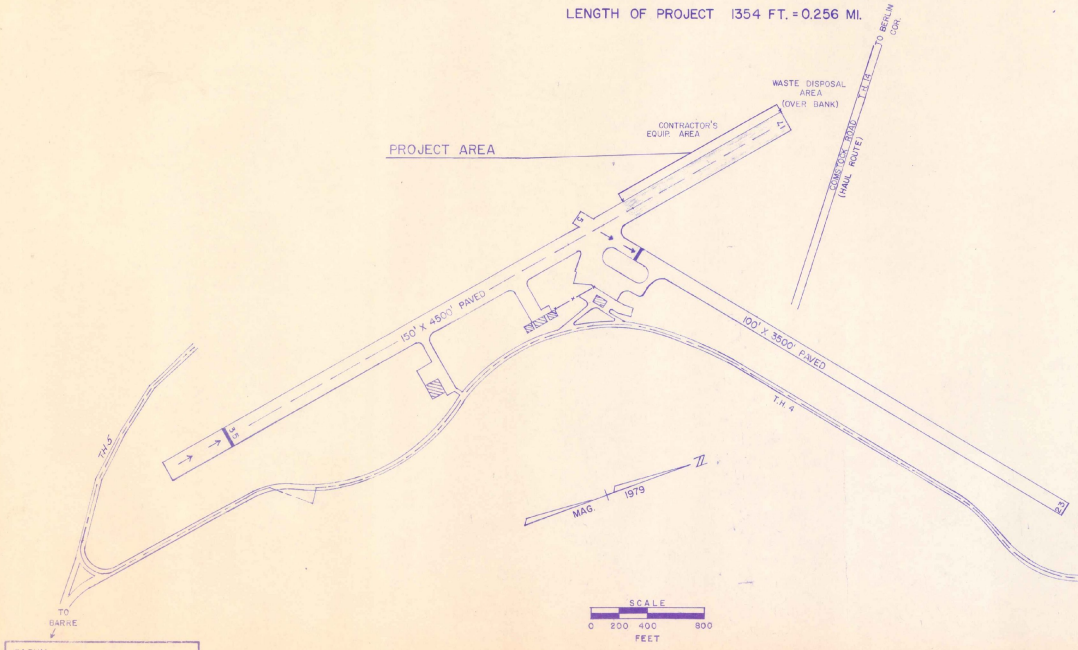


PROPOSED IMPROVEMENT
TOWN OF BERLIN
COUNTY OF WASHINGTON
EDWARD F. KNAPP STATE AIRPORT

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
LIMIT OF ACCESS
POINT OF ACCESS
FENCE (P)
STONE WALL
TRAVELLED WAY
GUARD RAIL
RAILROAD
SURVEY LINE
CULVERT
POWER POLE
TELEPHONE POLE
TREES
CONTROL OF ACCESS
PROPERTY LINE
ROW TAKING LINE
SLOPE RIGHTS
TOP OF CUT
TOE OF SLOPE

DATUM
VERTICAL: ASSUMED
HORIZONTAL: N/A

AS BUILT PLANS
Plans revised to reflect construction as completed and inspected by:
By: Resident Engineer
Date:

These plans are subject to such engineering changes as may be required by the Federal Aviation Administration or the Director of Engineering and Constr.

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.

ADAP NO. 6-50-0001-07

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED: _____ DATE: _____
DIRECTOR OF ENGINEERING AND CONSTRUCTION

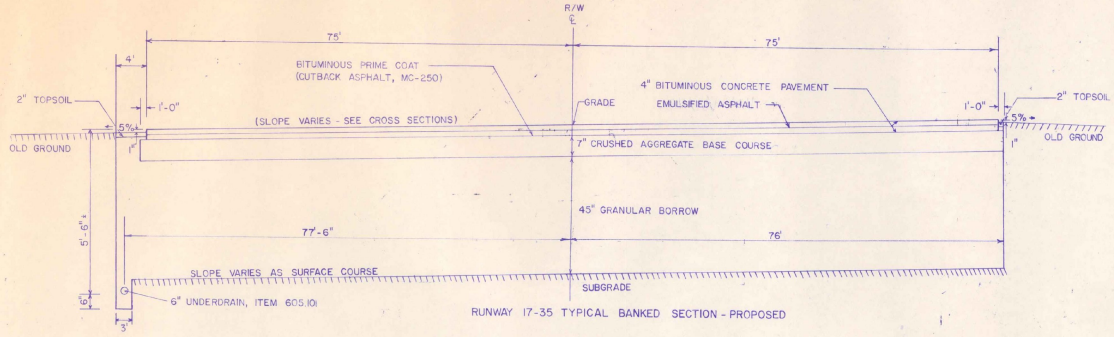
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

APPROVED: _____ DATE: _____
CHIEF, ENGINEERING BRANCH

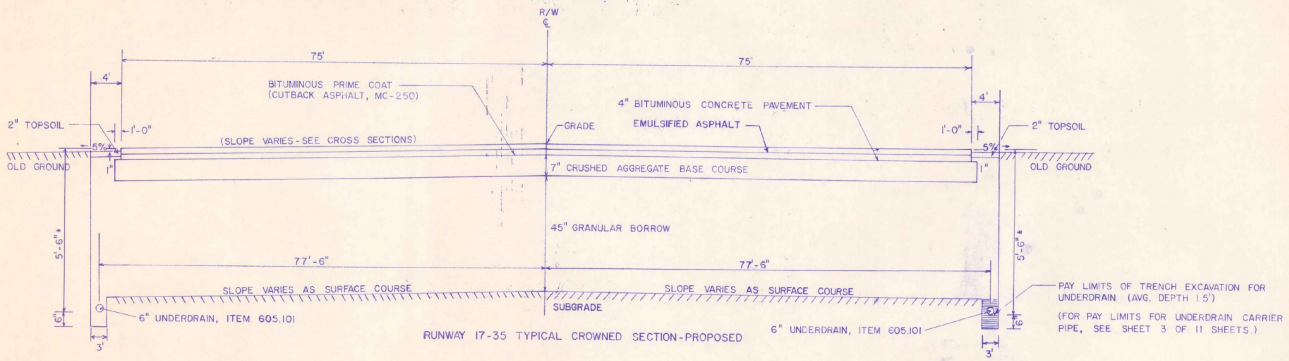
PROJECT AIR No. 23-2010
ADAP 6-50-0001-07
SHEET 1 OF 11 SHEETS

TYPICAL SECTIONS

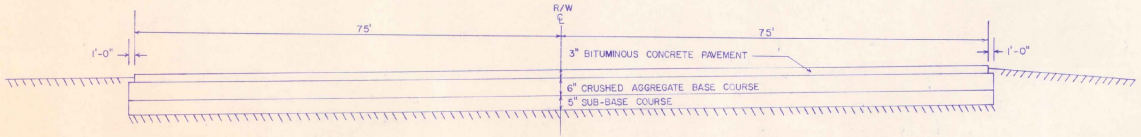
4" BITUMINOUS CONCRETE PAVEMENT, ITEM P-401 (2-2" LIFTS) * (PAY ITEM 853.02)
BITUMINOUS PRIME COAT, ITEM 404.55 (CUTBACK ASPHALT, MC-250)
7" CRUSHED AGGREGATE BASE COURSE, P-209 (PAY ITEM 853.07), GRADATION B
45" GRANULAR BORROW, ITEM 203.25
* EMULSIFIED ASPHALT, ITEM 404.65, BETWEEN LIFTS (2" TYPE B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



RUNWAY 17-35 TYPICAL BANKED SECTION - PROPOSED



RUNWAY 17-35 TYPICAL CROWNED SECTION-PROPOSED



RUNWAY 17-35 EXISTING TYPICAL

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. PENNFINE)	95	85
8.34	5	ALFALFA (VAR. SARANAC)	99	85
8.33	5	BIROSFOOT TREFOIL (VAR. EMPIRE)	98	85
5.00	3	HIGHLAND BENT GRASS	92	85
100.00	60 LBS/ACRE			

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

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

1. SUB-GRADE UNDER AREAS TO BE PAVED ~~TO BE~~ COMPACTED TO 95% DENSITY AS PER FAA T-611 (AASHTO T-180).
2. BITUMINOUS PRIME COAT ~~TO BE~~ APPLIED AS PER ITEM 404.55, SUBSECTION 404.06 (C), TYPE I, USING MC-250.
3. TOP 9" OF GRANULAR BORROW TO BE COMPACTED TO 100% DENSITY (AASHTO T-180).
4. 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

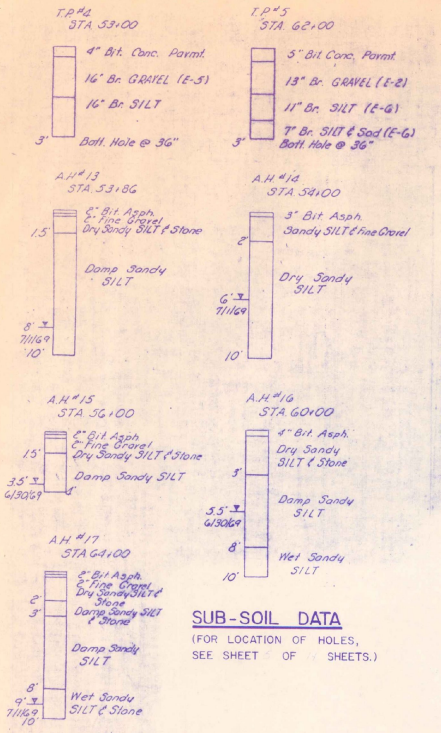
ADAP NO. 6-50-0001-07

EDWARD F. KNAPP AIRPORT

VERMONT AGENCY OF TRANSPORTATION

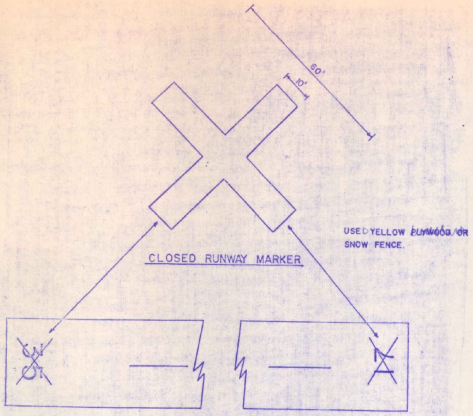
PROJ. AIR NO 23-2010 | SHEET 2 OF 11

D-8



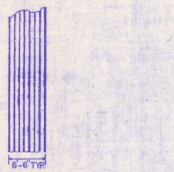
SUB-SOIL DATA

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



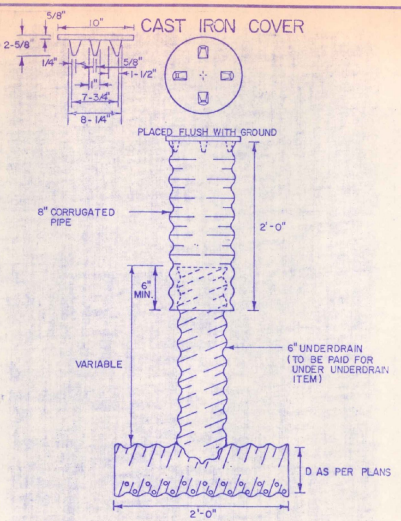
NOTES

1. NO SEPARATE PAY ITEM FOR CLOSED RUNWAY MARKERS. (PAYMENT ~~WILL BE~~ 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.



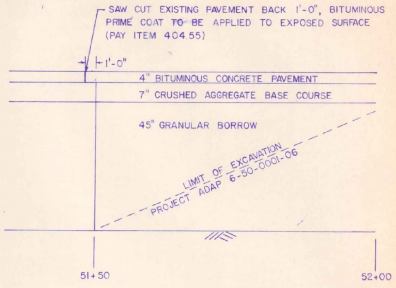
STRIATED MARKING DETAIL

SCALE: 1"=12'



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)

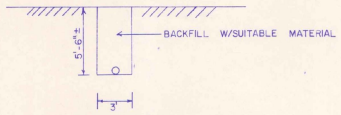
UNDERDRAIN FLUSHING BASIN

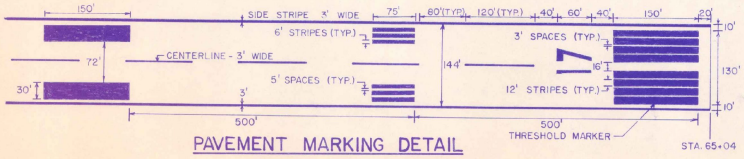


TRANSITION BUTT DETAIL

PAY LIMITS OF TRENCH EXCAVATION FOR UNDERDRAIN CARRIER PIPE

(NOT TO SCALE)

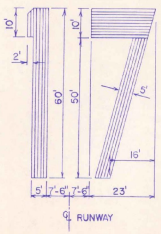




PAVEMENT MARKING DETAIL

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.



NUMERAL DETAILS

AS BUILT PLANS

I hereby certify that all the construction was done in accordance with the plans and specifications that have been approved by the Secretary of Agriculture.

By _____ Resident Engineer

Date _____

MISCELLANEOUS DETAILS

ADAP NO. 6-50-0001-07

EDWARD F. KNAPP AIRPORT

VERMONT AGENCY OF TRANSPORTATION

PROJ. AIR No. 23-2010 | SHEET 9 OF 11

D-8

QUANTITY, EARTHWORKS, DRAINAGE AND ITEM DETAIL SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES

EROSION CONTROL	BRIDGE	RUNWAY/TAXIWAY	GRAND TOTAL	UNIT	PAY ITEM	PAY ITEM NUMBER	CLASS
		37000	37000	C.Y.	Common Excavation	203.15	10
		100	100	C.Y.	Solid Rock Excavation (est)	203.16	
		3700	3700	C.Y.	Granular Borrow (Subcrse)	203.32	57
		475	475	C.Y.	Trench Excavation of Earth	204.20	5
		10	10	C.Y.	Trench Excavation of Rock (est)	204.21	
		415	415	CWT	Cutback Asphalt (MC-250)	409.55	11
		80	80	CWT	Emulsified Asphalt	409.65	47
		2	2	C.Y.	Concrete Class B (est)	501.05	
		200	200	LB	Reinforcing Steel (est)	509.15	
		1200	1200	L.F.	6" Underdrain	605.101	28
		170	170	L.F.	6" Underdrain Carrier Pipe (est)	605.181	
		6	6	EA	Underdrain Existing Basin	605.95	
		16	16	MB	All Purpose Fine Vermiculite/Perlite Type I (est)	618.25	
		10	10	MB	Mulch Material (est)	620.27	
		100	100	M.gal.	Dust Control w/ Water (est)	639.10	
		1	1	L.S.	Field Office - Engineers	631.10	
		1	1	L.S.	Mobilization	635.10	
		120	120	L.B.	Seed (est)	651.10	
		1000	1000	L.B.	Fertilizer (est)	651.15	
		4	4	TON	Agricultural Limestone (est)	651.20	
		4	4	TON	Hay Mulch (est)	651.25	
		70	70	C.Y.	Topsoil	653.10	5
		3020	3020	TON	Bituminous Concrete Pavement	855.02	62
		1	1	L.S.	Runway & Taxiway Painting	863.05	
		4450	4450	C.Y.	Crushed Aggregate Base Course	863.07	4

DETAILED SUMMARY OF QUANTITIES

QUANTITY	UNIT	PAY ITEM

GRADES AND EARTHWORK

V.C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON CURVE	V.C. CORR.	TOTAL EXCAV. EARTH & ROCK EMBT. (FT)	EXCAVATION AREA (SF)	EXCAVATION VOL. (CY)	ROCK EXCAVATION AREA (SF)	ROCK EXCAVATION VOL. (CY)	EMBANKMENT AREA (SF)	EMBANKMENT VOL. (CY)
		R/W 17-35										
		0	1112.85									
		+25	1112.12	1112.12	0.00							
		+45	1111.93	1111.92	-0.01							
		+50	1111.88	1111.86	-0.02	Begin Project AIR 28-2010						
		+75	1111.56	1111.56	0.00							
		5+	1111.22	1111.22	0.00							
		+25	1110.89	1110.87	-0.02							
		+50	1110.56	1110.53	-0.03							
		+75	1110.18	1110.16	-0.02							
		53	1109.81	1109.81	0.00							
		+25	1109.43	1109.43	0.00							
		+50	1109.30									
		54	1108.31									
		+50	1107.56									
		55	1106.82									
		+50	1106.25									
		56	1105.90									
		+50	1104.55									
		57	1103.50									
		+50	1103.03									
		58	1102.53									
		+50	1101.55									
		59	1100.79									
		+50	1100.24									
		60	1099.29									
		+50	1098.91									
		61	1098.79									
		+20	1098.04									
		62	1098.89									
		+20	1099.84									
		63	1099.96									
		+50	1099.76									
		64	1099.48									
		+20	1099.53									
		65	1099.78									
		104	1099.72				End Project AIR 28-2010					

COLUMN TOTALS

EARTHWORK SUMMARY

EARTH AND ROCK EXCAVATION	C.Y.
SOLID ROCK EXCAVATION	C.Y.
EARTH EXCAVATION	C.Y.
PLANIMETERED FILL	C.Y.
LESS FACTORED SOLID ROCK	C.Y.
LESS DISPLACEMENT OF LARGE STRUCTURES	C.Y.
NET PLANIMETERED FILL	C.Y.
FACTOR (x NET PLANIMETERED FILL)	C.Y.
PLANIMETERED FILL INCLUDING FACTOR	C.Y.
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION	C.Y.
CHANNEL EXCAVATION (%x C.Y.)	C.Y.
UNDERDRAIN EXCAVATION (%x C.Y.)	C.Y.
STRUCTURE EXCAVATION (%x C.Y.)	C.Y.
TOTAL MATERIAL AVAILABLE FOR FILLS	C.Y.
TOTAL FILL INCLUDING FACTOR	C.Y.
TOTAL MATERIAL FOR FILLS	C.Y.
BORROW	C.Y.
EXCESS EXCAVATION	C.Y.
LESS FACTORED DEDUCTIBLE GRANULAR BORROW	C.Y.
NET EARTH BORROW	C.Y.
NET EXCESS EXCAVATION	C.Y.

UNDERDRAIN AND CARRIER PIPE

STATION TO STATION	TYPE U	P O S	P O S	D (IN)	L (FT)	TRENCH EX. EARTH (CY)	TRENCH EX. ROCK (CY)	GRAN. BK'F. (CY)	F B CL.	F B (EA)	MRK. POSTS (EA)
52+00	65+08	X		6		308	218			2	
50+20	65+08	X		6		225	118			1	
65+08			X	6		135	26			1	
65+08			X	6		176	108			1	
		X		6		178					
			X			116					
COLUMN TOTALS						470				5	

GUARD RAIL, THREE CABLE W/LT. ___ POSTS

STATION TO STATION	P O S	MEASURED LENGTH (FT & IN.)	POST SPACING FACTOR	POST SPACING (FT & IN.)	PAY LENGTH (L.F.)	ANCHORS CONCRETE (EA.)	ANCHORS TIMBER (EA.)	REMARKS
COLUMN TOTALS								

GUARD RAIL, BOX BEAM W/ST POSTS

STATION TO STATION	P O S	POST SPACING (FT & IN.)	PAY LENGTH (L.F.)	REMARKS
COLUMN TOTALS				

DRAINAGE STRUCTURES

STATION	POS.	SKEW	TYPE IN/OUT	DITCH IN	DITCH OUT	R.C.P. (IN)	R.C.P. (L.F.)	R.C.P. (C.Y.)	ACCOMP. OPTION PIPES (IN.)	ACCOMP. OPTION PIPES (L.F.)	ACCOMP. OPTION PIPES (THK.)	ACCOMP. OPTION PIPES (C.Y.)	ACCOMP. OPTION PIPES (TYP.)	ACCOMP. OPTION PIPES (T.R.)	MES. (EA.)	DI. DEPTH (FT.)	CONC. CL. P (C.Y.)	REINF. STEEL (LB.)	DI. GRATE TYPE	DI. GRATE (EA.)	TRENCH EX. EARTH (C.Y.)	TRENCH EX. ROCK (C.Y.)	ST. FILL TYPE	ST. FILL (C.Y.)	MAIL BOX LT.	MAIL BOX RT.	REMARKS
COLUMN TOTALS																											

GUARD RAIL, ___ STEEL BEAM WITH ___ POSTS, TYPE II

STATION TO STATION	P O S	MEASURED LENGTH (FT & IN.)	POST SPACING FACTOR	POST SPACING (FT & IN.)	PAY LENGTH (L.F.)	ANCHORS CONCRETE (EA.)	ANCHORS TIMBER (EA.)	REMARKS
COLUMN TOTALS								

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 _____

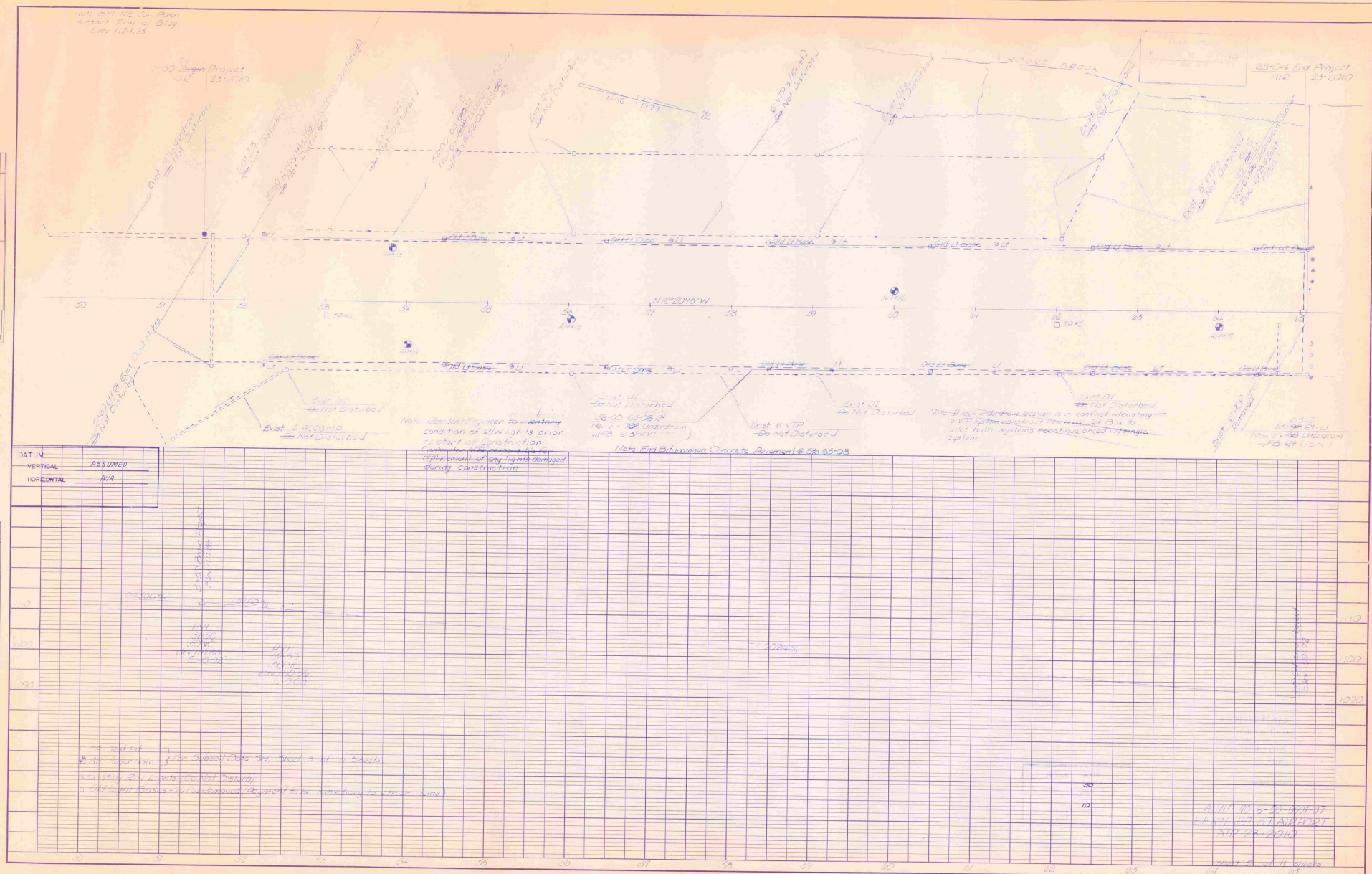
TYPE OF CONSTRUCTION

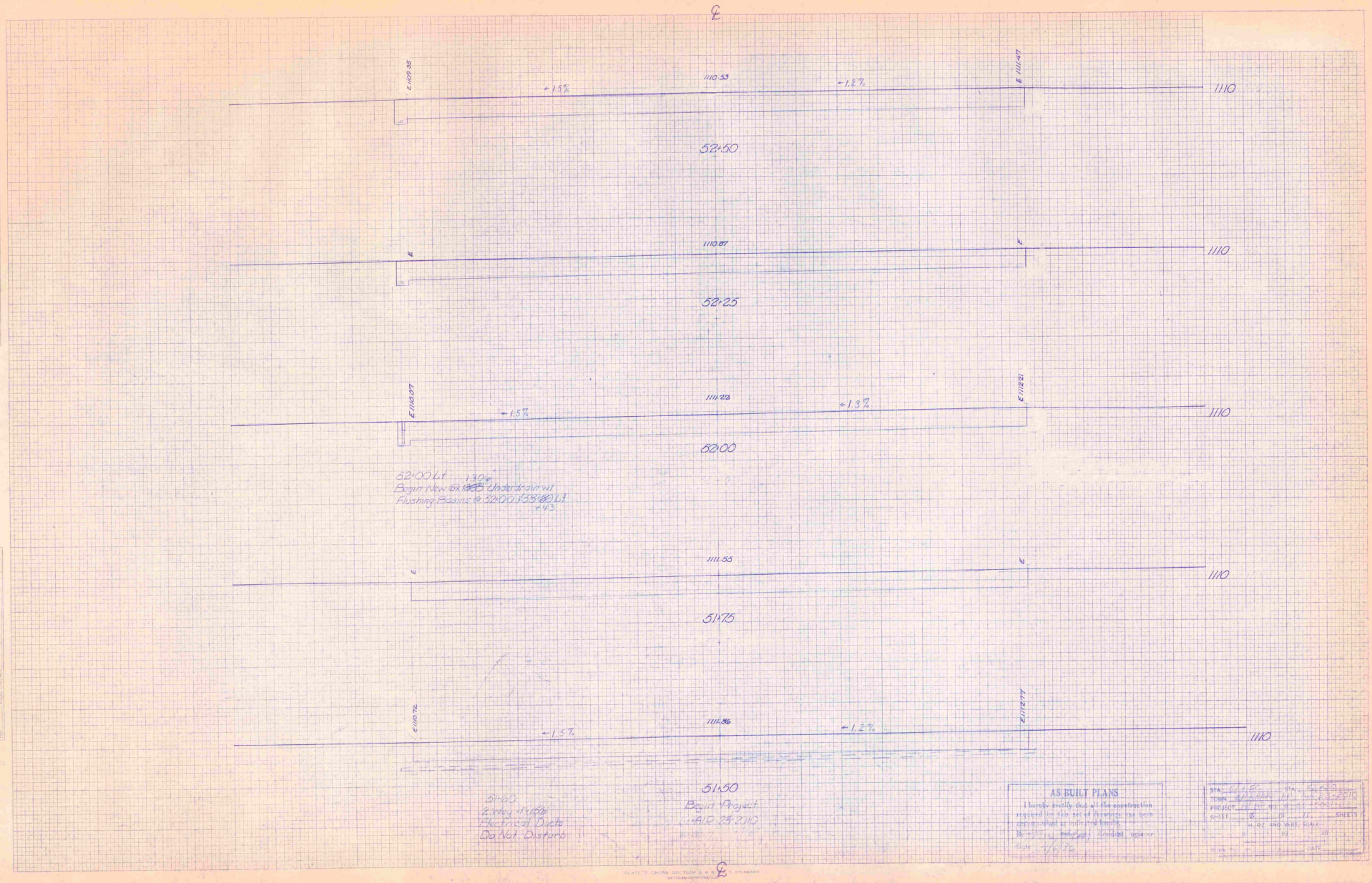
STATIONS FROM	STATIONS TO	PAVEMENT WIDTHS	EQUATIONS +	EQUATIONS −	REMARKS

LENGTH OF PROJECT

STATION	STATION	FEET	MILES	REMARKS
0+50	65+04	1354	0.256	Beginning at Runway 17-35 (North End)
COLUMN TOTALS		1354	0.256	

PROJECT ADAP NO. 6-50-0001-07 PROJECT NO. AIR 28-2010
NAME Ed Keyes Airport SHEET 1 OF 11 SHEETS


Note: SVI NE Cor Perm. Airport Terminal Bldg. Elev 1121.35
5+00 Begin Project AIR 25-2010
65+04.4 End Project AIR 25-2010
Exist 8" VTP Not Disturbed
Exist 2-8" VTP Not Disturbed
Exist 6" VTP Not Disturbed
Exist 8" VTP Not Disturbed
Exist 6" VTP Not Disturbed
Exist 8" VTP Not Disturbed
Exist 8" VTP Not Disturbed
Exist 8


℄
E 1109.35
1110.53
E 1111.47
-1.5%
-1.2%
1110
52+50
1110.87
1110
52+25
E 1110.07
1111.28
E 1112.21
-1.5%
-1.3%
1110
52+00
52+00 Lt 130'
Begin New 6x1665 Underdrain wt
Flushing Basins @ 52+00 & 51+20 Lt
1111.55
1110
51+75
E 1110.72
1111.86
E 1112.77
-1.5%
-1.2%
1110
51+60
2 way 4"/100
Neutral Ducts
Do Not Disturb
51+50
Begin Project
AIR 25-2(10)
℄
PLATE 7 CROSS SECTION A.A.S.H.T.O. STANDARD
METRIC DIMENSIONS
AS BUILT PLANS
I hereby certify that all the construction required on this set of drawings has been performed either as indicated hereon or as noted in the
by ... Contractor
date 1/6/72
STA. ... STA. ...
TOWN ...
PROJECT ...
SHEET ... SHEETS
HORIZ. AND VERT. SCALE
DATE
FINAL SURVEY
ORIGINAL SURVEY

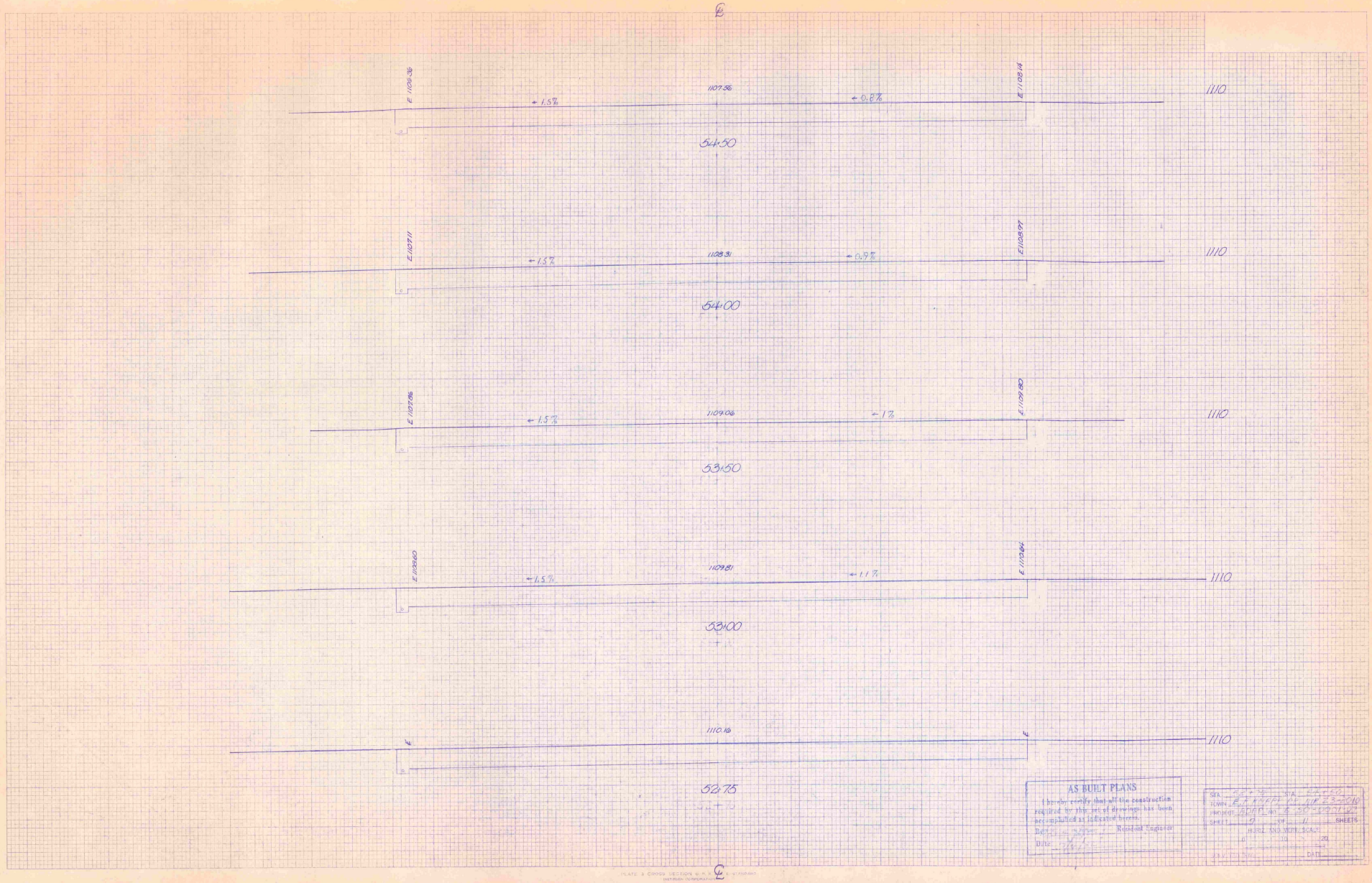


PLATE 3 CROSS SECTION G.M.K. STANDARD
DATRAN CORPORATION

FINAL SURVEY
SUBMITTED
APPROVED
NOTE BOOK
PAGES CHECKED
NO.

ORIGINAL SURVEY
SUBMITTED
APPROVED
NOTE BOOK
PAGES CHECKED
NO.

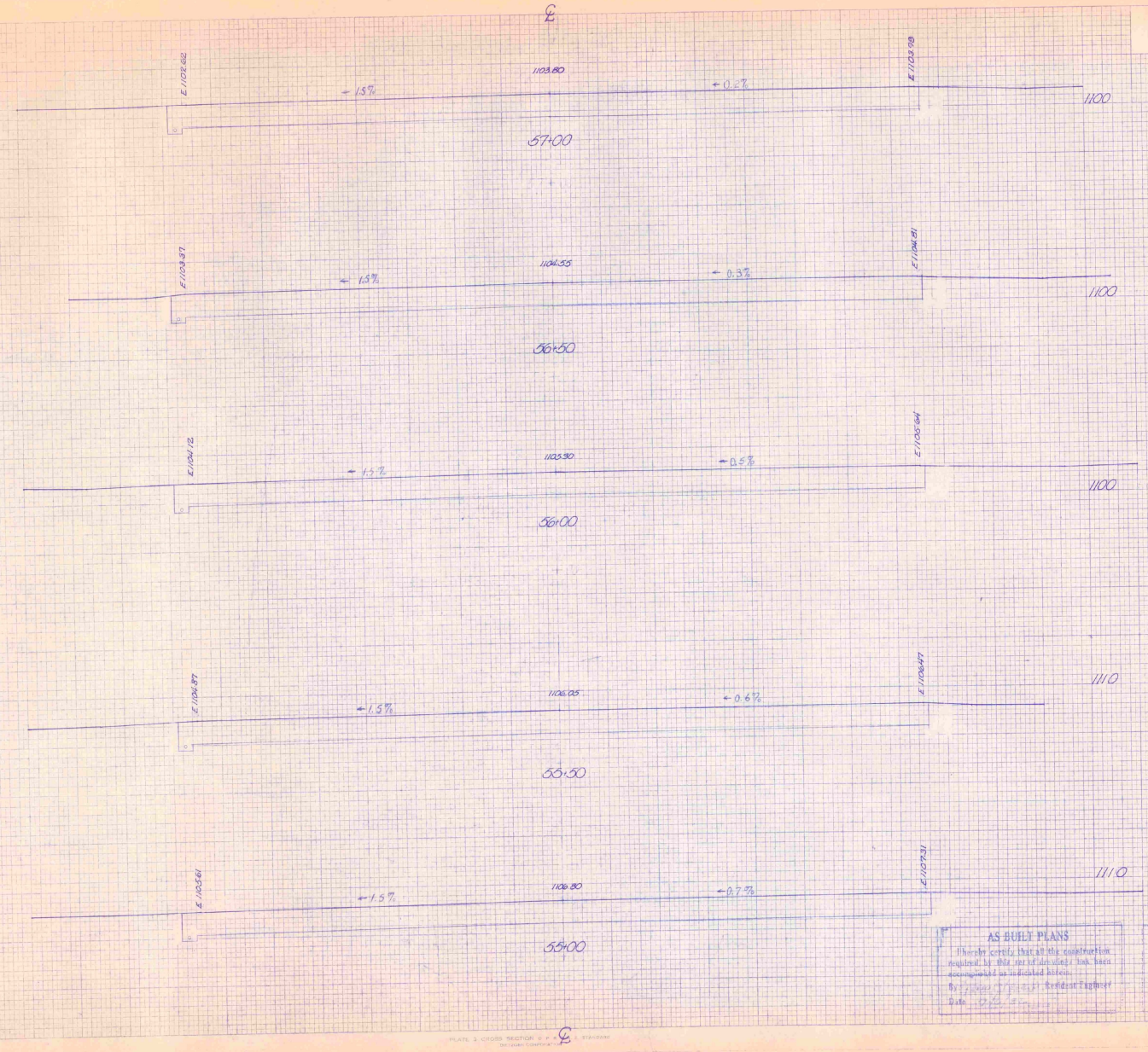
AS BUILT PLANS

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

Date: 3/15/77 Rowland Tugwood

Date:

STA. 52+75 STA. 54+50
TOWN EARNEY CO. LIFE 3-010
PROJECT 2007 (NO. 8 SECTION) 24
SHEET 2 OF 1 SHEETS
HORZ. AND VERT. SCALE
0 10 20
DRAWN BY DATE



FINAL SURVEY — DRAWING CORRECTED AS NOTED HEREON — DATE — BY

ORIGINAL SURVEY — SURVEYED — DRAWN — TRACED — NOTE BOOK — CHECKED — NO. — DATE — BY

AS BUILT PLANS

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

By _____ Resident Engineer

Date _____

STA. 57+00 TO STA. 55+00

TOWN OF EAST HAVEN

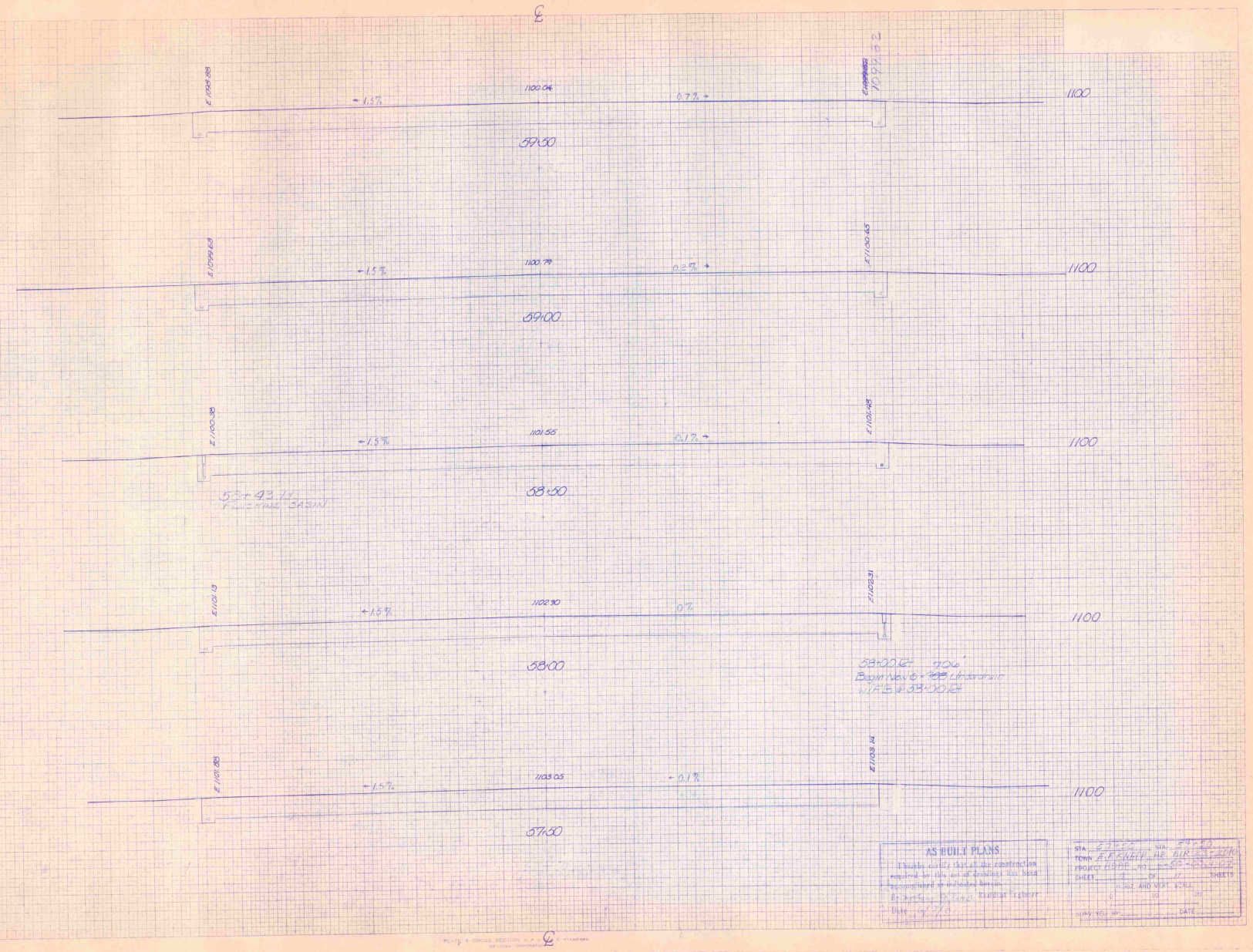
PROJECT NO. 55-00-01-02

SHEET 13 OF 17 SHEETS

HORIZ. AND VERT. SCALE 1" = 40'

STATE FILE NO. _____ DATE _____

PLATE 2 CROSS SECTION ℄ P. & STANDARD
INTERIM COMPLETION



AS BUILT PLANS

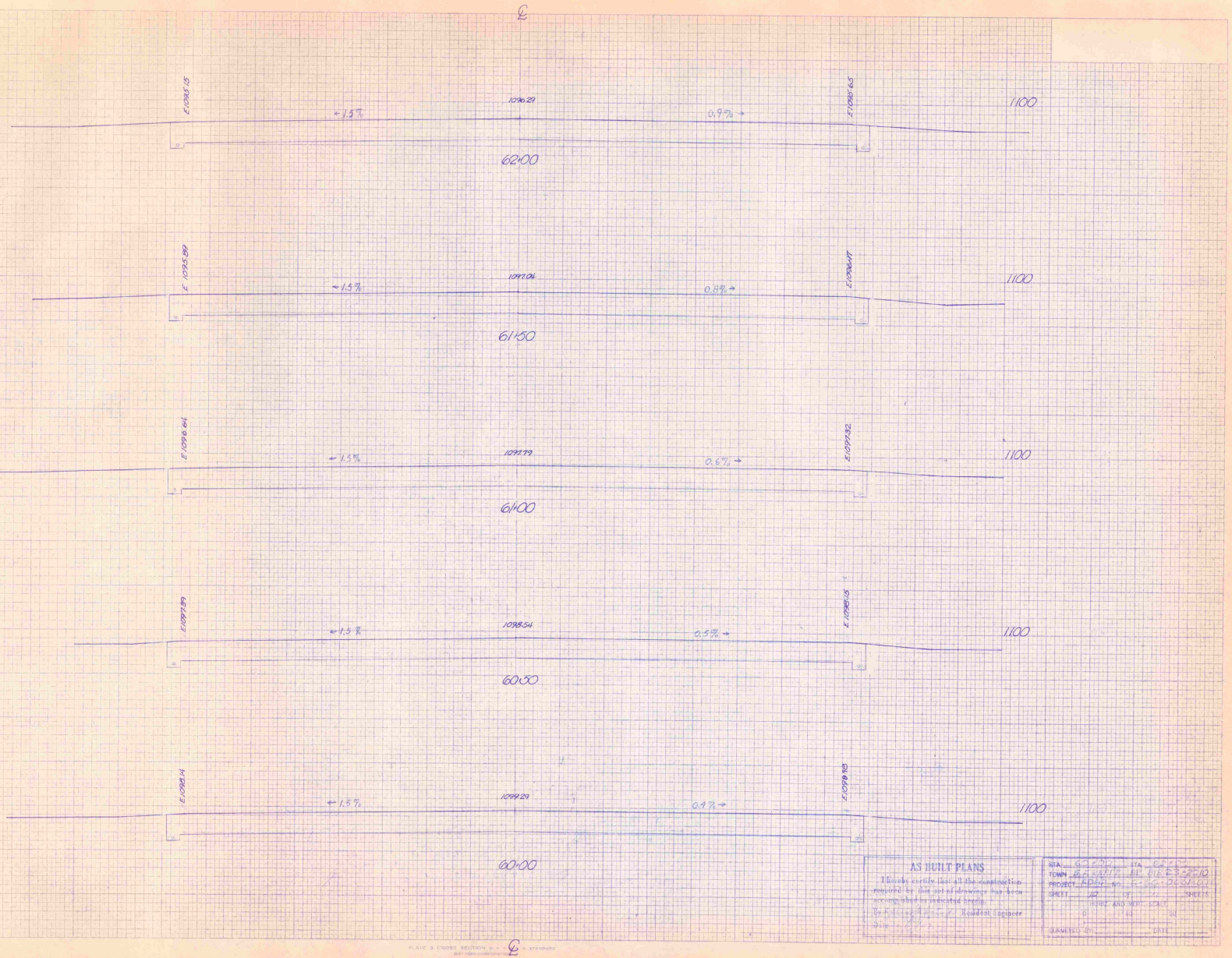
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated hereon.

By Date

STA. TO STA.
TOWN
PROJECT NO. TO
SHEET OF SHEETS
HORZ. AND VERT. SCALE
SURVEYED BY DATE

FINAL SURVEY
ORIGINAL SURVEY

PLATE 3 CROSS SECTION



FINAL SURVEY
APPROVED
CERTIFIED
PLOTTED
FIELD BOOK
PAGE
CHECKED
DATE
BY
DATE

ORIGINAL SURVEY
APPROVED
CERTIFIED
PLOTTED
FIELD BOOK
PAGE
CHECKED
DATE
BY
DATE

AS BUILT PLANS

I hereby certify that all the construction required by this set of drawings has been accomplished in substantial accord.

By _____ Resident Engineer

Date _____

STA. 60+00 STA. 62+00

TOWN GRANBY RTE. RTE 23 SECTION

PROJECT ADPH NO. G-1000(60)

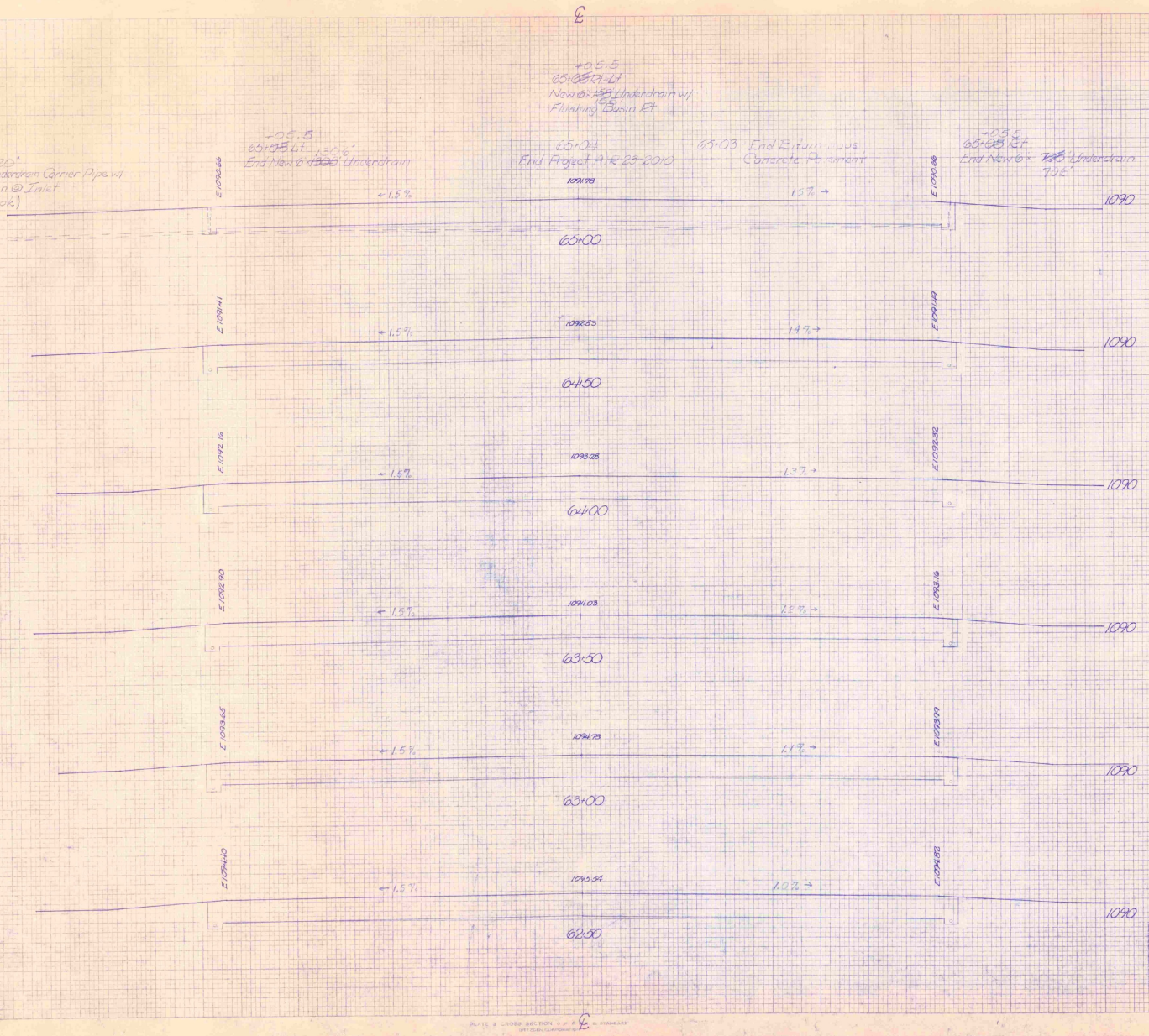
SHEET 69 OF SHEETS

HORIZ. AND VERT. SCALE

0 5 10

SURVEYED BY _____ DATE _____

PLATE 3 CROSS SECTION U. S. STANDARD
BRIDGEN CORPORATION


℄
65+05
65+05 Lt 220°
New 6"/12" Underdrain Carrier Pipe w/
Flushing Basin @ Inlet
(Outlet in Brook)
E 1092.66
-05+15
65+05 Lt 120.6'
End New 6" Underdrain
65+00
E 1091.41
1092.53
64+50
E 1092.16
1093.28
64+00
E 1092.90
1094.03
63+50
E 1093.65
1094.78
63+00
E 1094.40
1095.54
62+50
+05+15
65+05 Lt
New 6" Underdrain w/
Flushing Basin Rt
65+04
End Project 9 ie 23-2010
65+03 - End Bituminous
Concrete Pavement
-05+15
65+05 Rt
End New 6" Underdrain
PVC
E 1090.13
E 1090.38
E 1090.63
E 1090.88
E 1091.13
1091.78
1.5% ←
1.5% →
1.49%
1.37%
1.23%
1.17%
1.07%
1090
AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished to my knowledge & belief.
BY
Project Engineer
DATE
STA 64+50 STA 65+05
TOWN EAST HAMPTON
PROJECT CSO-[illegible] NO [illegible]
SHEET 7 OF 9 SHEETS
HORIZ AND VERT SCALE
1" = 10'
SURVEYED BY
DATE
PLATE 3 CROSS SECTION OF PAVEMENT
SPECIFICATIONS
FINAL SURVEY
ORIGINAL SURVEY
BY
DATE