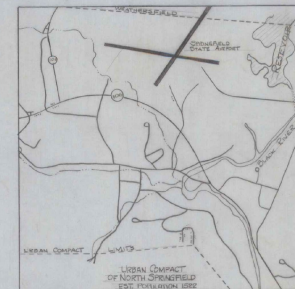


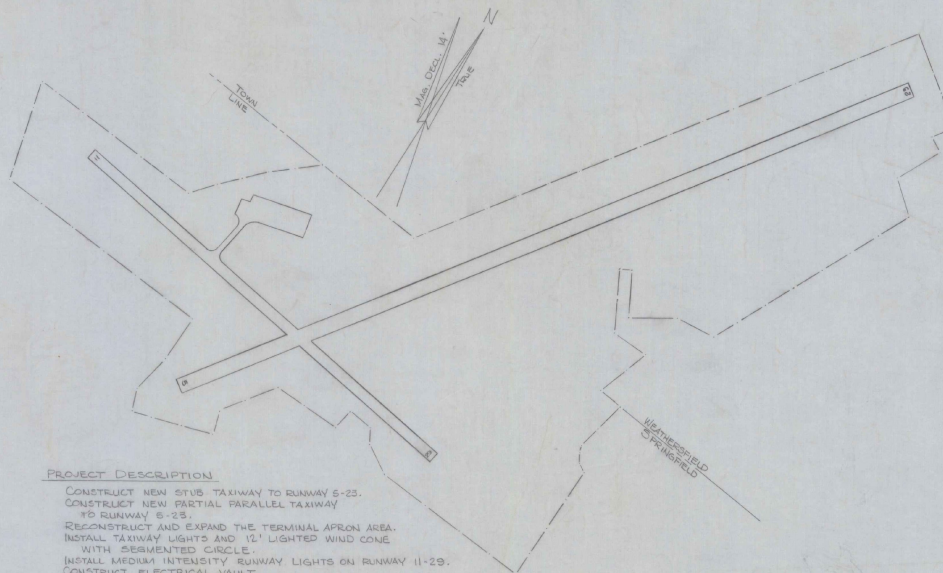
VICINITY MAP

SPRINGFIELD STATE AIRPORT SPRINGFIELD, VERMONT

TERMINAL AREA IMPROVEMENTS ADAP NO. 5-50-0016-04



LOCATION MAP



PROJECT DESCRIPTION

CONSTRUCT NEW SUB TAXIWAY TO RUNWAY 6-23.
CONSTRUCT NEW PARTIAL PARALLEL TAXIWAY
TO RUNWAY 6-23.
RECONSTRUCT AND EXPAND THE TERMINAL APRON AREA.
INSTALL TAXIWAY LIGHTS AND 12' LIGHTED WIND CONE
WITH SEMI-CIRCULAR LIGHTS.
INSTALL MEDIUM INTENSITY RUNWAY LIGHTS ON RUNWAY 11-29.
CONSTRUCT ELECTRICAL VAULT.

GENERAL PLAN

SCALE 1"=200'

INDEX OF SHEETS

1. TITLE PAGE
2. PROJECT LAYOUT
3. LIGHTING PLAN
4. ELECTRICAL VAULT
5. ELECTRICAL TYPICALS & VAULT DETAIL SHEET
6. DRAINAGE, MARKING & TIE DOWN SHEET
7. TYPICAL SECTIONS, 7A STD. D-1, 7-B STD. D-19
8. PROFILE SHEET
9. BORING LOG
10. QUANTITY SHEET
11. EARTHWORK SUMMARY
- 12-16. CROSS SECTIONS

REVISIONS	
DESCRIPTION	DATE

AS BUILT PLANS

I hereby certify that all the construction
required by this set of drawings has been
accomplished as indicated herein.
By Donald E. Barnes Resident Engineer
Date 6/09/80

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

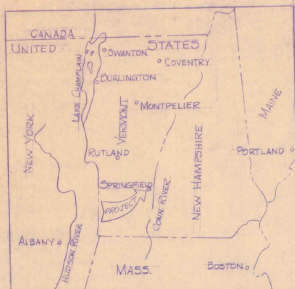
APPROVED 1/9/80 DATE 9-21-78
CHIEF OF ENGINEERING AND CONSTRUCTION

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

APPROVED _____ DATE _____
CHIEF ENGINEERING BRANCH
AIRPORTS DIVISION

PROJECT ADAP NO. 5-50-0016-04

SHEET 1 OF 16 SHEETS



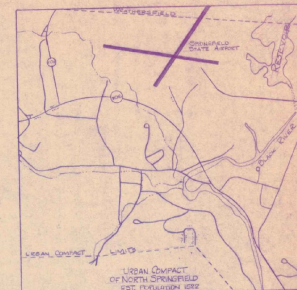
VICINITY MAP

SPRINGFIELD STATE AIRPORT SPRINGFIELD, VERMONT

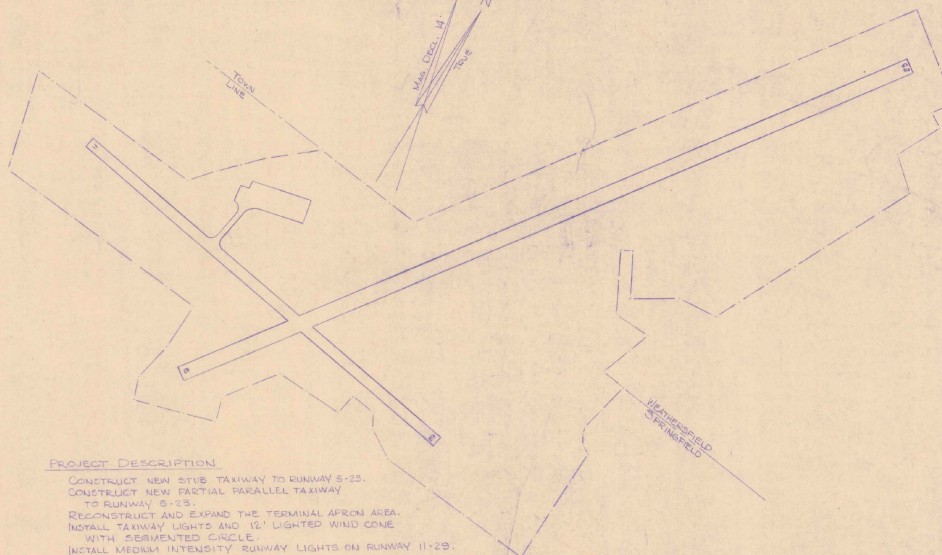
TERMINAL AREA IMPROVEMENTS

ADAP NO. 5-50-0016-04

CONTRACTS A & B



LOCATION MAP



GENERAL PLAN

SCALE: 1"=200'

PROJECT DESCRIPTION

CONSTRUCT NEW STUD TAXIWAY TO RUNWAY 5-23.
CONSTRUCT NEW PARTIAL PARALLEL TAXIWAY
TO RUNWAY 5-23.
RECONSTRUCT AND EXPAND THE TERMINAL APRON AREA.
INSTALL TAXIWAY LIGHTS AND 16' LIGHTED WIND CONE
WITH SEMI-INTENSIVE LIGHTS.
INSTALL MEDIUM INTENSITY RUNWAY LIGHTS ON RUNWAY 11-29.
CONSTRUCT ELECTRICAL VAULT.

INDEX OF SHEETS

1. TITLE PAGE
2. PROJECT LAYOUT
3. LIGHTING PLAN
4. ELECTRICAL VAULT
5. ELECTRICAL TYPICALS & VAULT DETAIL SHEET
6. DRAINAGE, MARKING & TIE DOWN SHEET
7. TYPICAL SECTIONS, 7-4 STD. D-1; 7-5 STD. D-19
8. PROFILE SHEET
9. BORING LOG
10. QUANTITY SHEET
11. EARTHWORK SUMMARY
- 12-16. CROSS SECTIONS

Contract 'A'

These plans have been reviewed and are acceptable to the FAA.

John A. Dine 4/9/82
DATE

Contract 'B'

These plans have been reviewed and are acceptable to the FAA.

John A. Dine 4/9/82
DATE

AS BUILT PLANS

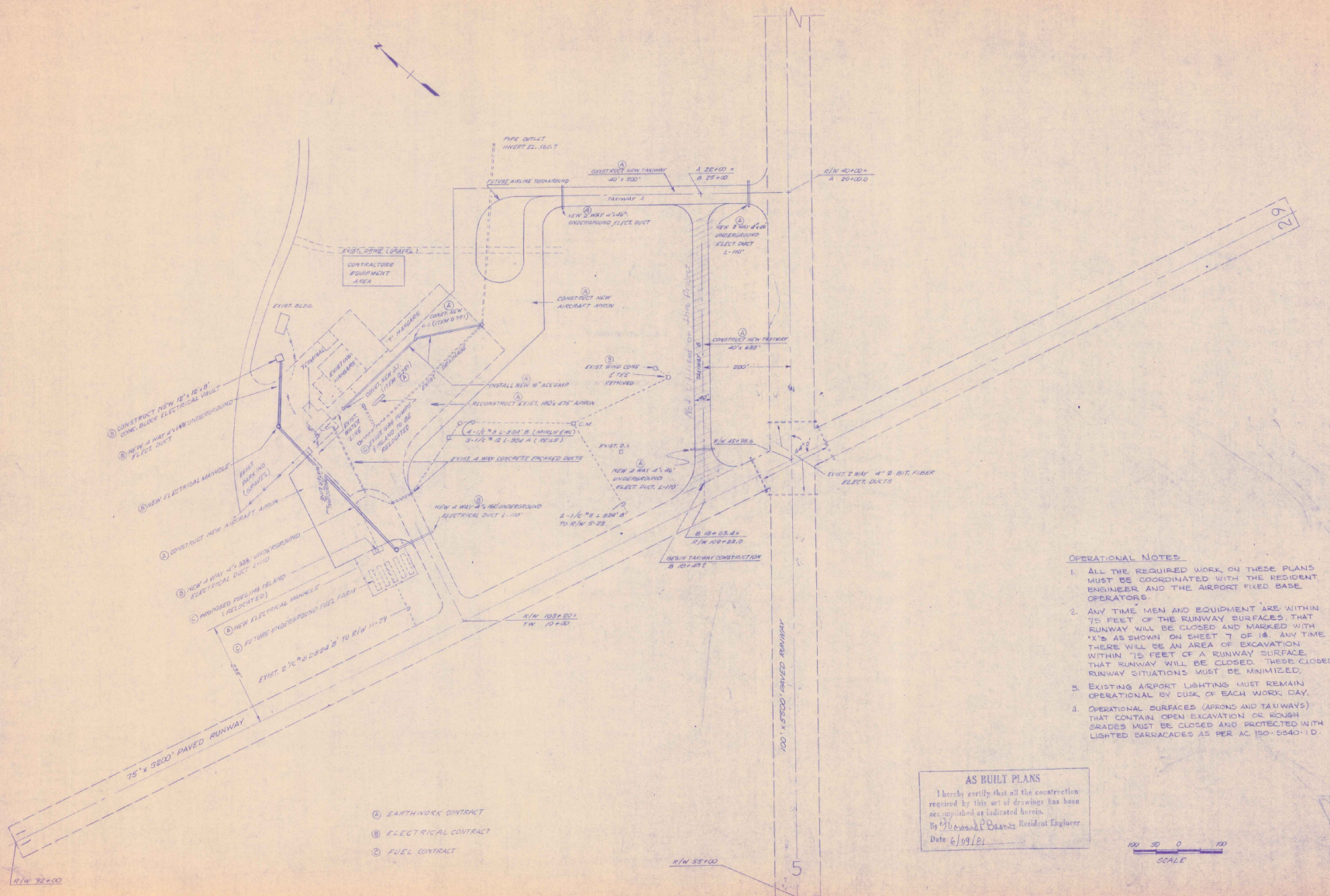
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.

By *Donald J. Scarsd* Resident Engineer
Date 6/19/81

REVISIONS	
DESCRIPTION	DATE

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD	
APPROVED <i>John A. Dine</i> 4/9/82	DATE 4/9/82
CHIEF OF ENGINEERING AND CONSTRUCTION	
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION	
APPROVED _____	DATE _____
CHIEF ENGINEERING BRANCH AIRPORTS DIVISION	
PROJECT ADAP NO. 5-50-0016-04	
SHEET 1 OF 16 SHEETS	

ADAP 5-50-0016-03
AIR 4-4503
1980
ADAP 5-50-0016-04
AIR 21-6004
1981



OPERATIONAL NOTES.

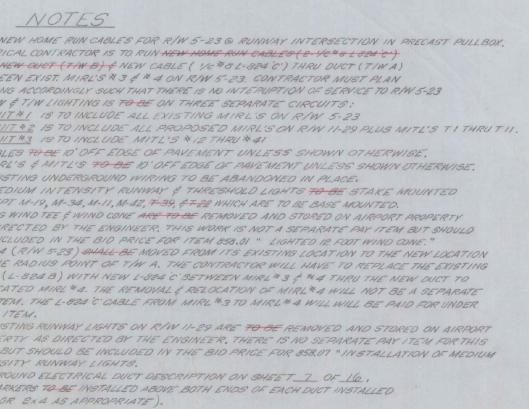
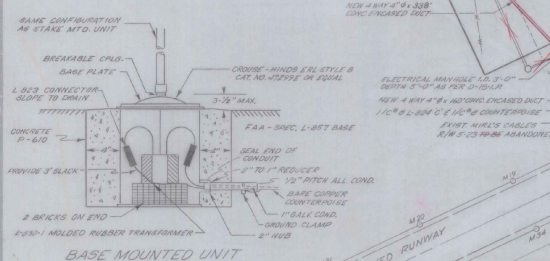
1. ALL THE REQUIRED WORK ON THESE PLANS MUST BE COORDINATED WITH THE RESIDENT ENGINEER AND THE AIRPORT FIXED BASE OPERATORS.
2. ANY TIME MEN AND EQUIPMENT ARE WITHIN 15 FEET OF THE RUNWAY SURFACES, THAT RUNWAY WILL BE CLOSED AND MARKED WITH "X'S" AS SHOWN ON SHEET 1 OF 8. ANY TIME THERE WILL BE AN AREA OF EXCAVATION WITHIN 15 FEET OF A RUNWAY SURFACE, THAT RUNWAY WILL BE CLOSED. THESE CLOSED RUNWAY SITUATIONS MUST BE MINIMIZED.
3. EXISTING AIRPORT LIGHTING MUST REMAIN OPERATIONAL BY CURS OF EACH WORK DAY.
4. OPERATIONAL SURFACES (APRONS AND TAXIWAYS) THAT CONTAIN OPEN EXCAVATION OR ROUGH GRADES MUST BE CLOSED AND PROTECTED WITH LIGHTED BARRICADES AS PER AC 150-5540-1-D.

AS BUILT PLANS

I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
By Donald J. Owens Resident Engineer
Date 6/19/81

100 50 0 50
SCALE

SURVEYED BY DATE
DRAWN BY DATE
CHECKED BY DATE
PROJECT LAYOUT
PROJ ADAP NO 5-80-0016-01
SHEET 2 OF 16

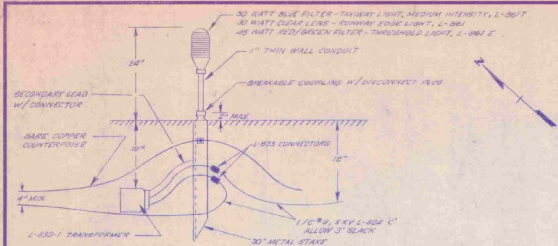


SURVEYED BY _____ DATE _____
DRAWN BY H.G.R. DATE _____
TRACED BY _____ DATE _____

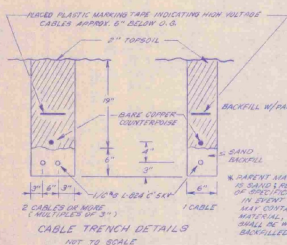
LIGHTING PLAN

PROJ. ADAP NO. 5-50-0016-04

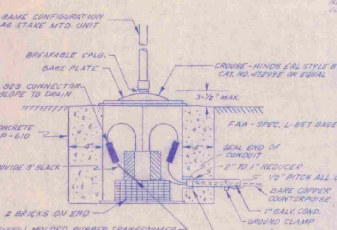
SHEET 3 OF 16



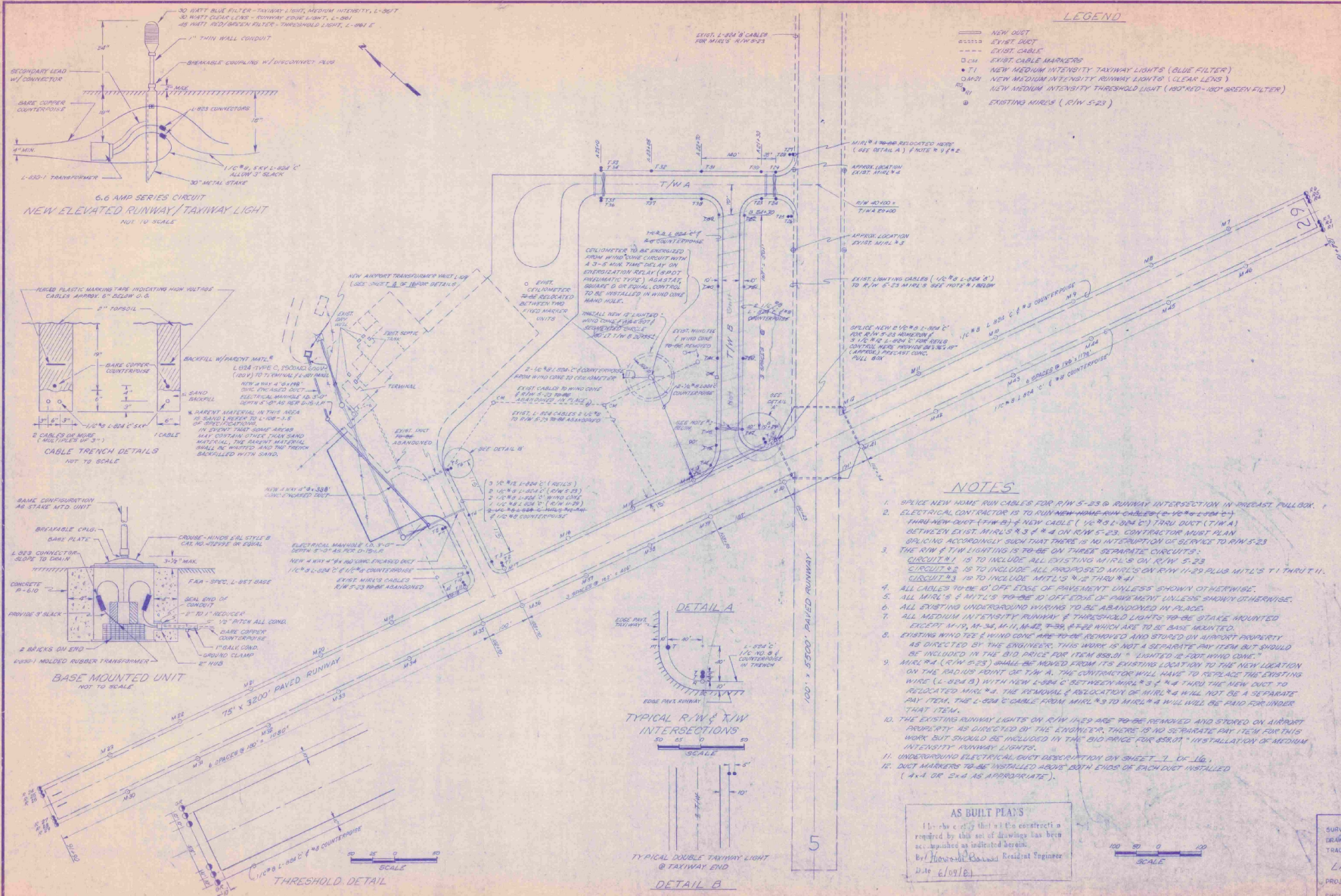
6.6 AMP SERIES CIRCUIT
NEW ELEVATED RUNWAY/TAXIWAY LIGHT
NOT TO SCALE



CABLE TRENCH DETAILS
NOT TO SCALE



BASE MOUNTED UNIT
NOT TO SCALE



LEGEND

- NEW DUCT
- EXIST DUCT
- EXIST CABLE
- EXIST CABLE MARKERS
- NEW MEDIUM INTENSITY TAXIWAY LIGHTS (BLUE FILTER)
- NEW MEDIUM INTENSITY RUNWAY LIGHTS (CLEAR LENS)
- NEW MEDIUM INTENSITY THRESHOLD LIGHT (RED-RED-RED GREEN FILTER)
- EXISTING MILES (R/W 5-23)

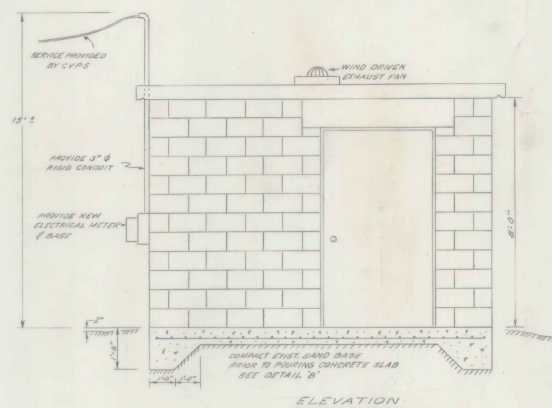
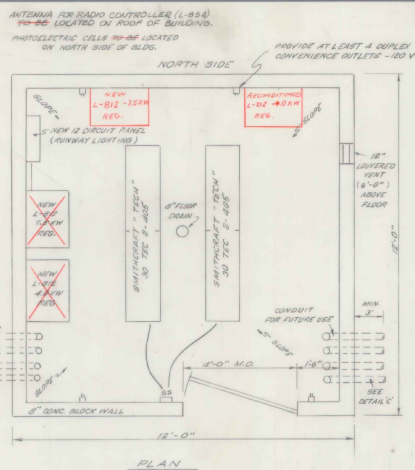
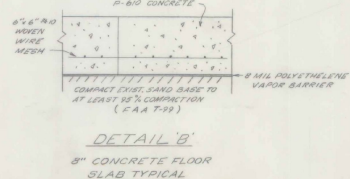
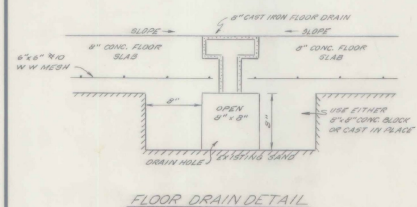
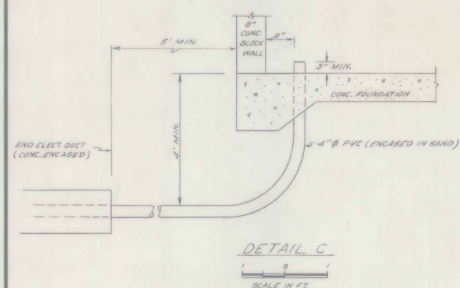
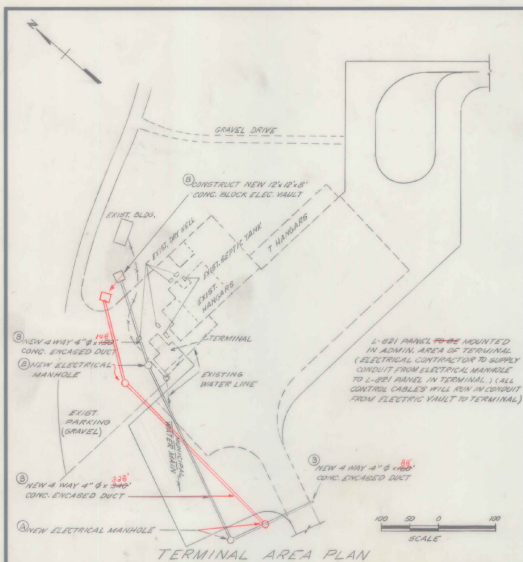
NOTES

- SPlice NEW HOME RUN CABLES FOR R/W 5-23 @ RUNWAY INTERSECTION IN PRECAST PULLBOX.
- ELECTRICAL CONTRACTOR IS TO RUN NEW HOME RUN CABLES (2-1/2\"/>

AS BUILT PLANS

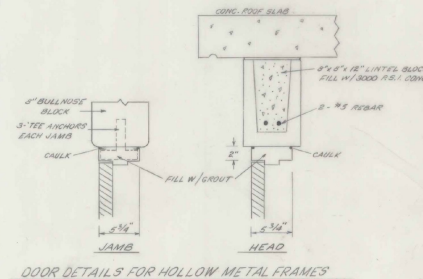
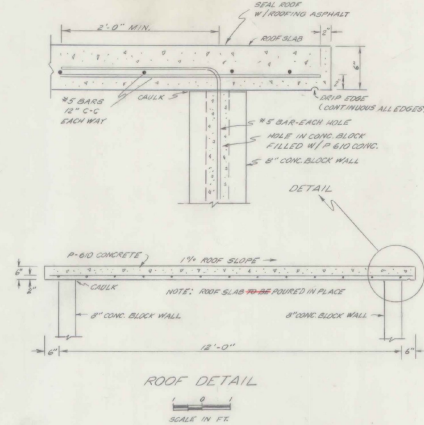
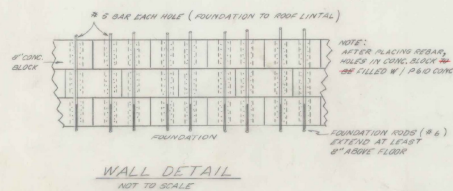
I hereby certify that all the contracts required by this set of drawings has been completed as indicated herein.
By: *[Signature]*
Date: 6/10/80

SURVEYED BY	DATE
DRAWN BY	DATE
TRACED BY	DATE
LIGHTING PLAN	
PROJ. ADMP NO. 55-00-0016-04	
SHEET 3 OF 10	



NEW ELECTRIC VAULT

SCALE IN FT.



AS BUILT PLANS

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

By: Knowledge Resources, Inc. at Tega or Date 6/09/81

- NOTES
- REFER TO FAA L109 FOR SPECIFICATIONS.
 - MOUNT CONTACTORS, BOOSTER TRANSFORMERS & MISC. HARDWARE ON SAME WALL AS NEW 12 CIRCUIT PANEL BOX.
 - ALL CONDUIT ~~TO BE~~ RIGID METAL CONDUIT SIZED ACCORDING TO CODE.
 - PROVIDE GROUND BUS BENEATH 12 CIRCUIT PANEL BOX.
 - PROVIDE AT LEAST 1" ROOF SLOPE (TO EAST).
 - FOUNDATION FLOOR TO RUMPS TO CENTER OF VAULT.
 - REFER TO L-109-3.8 FOR PAINTING REQUIREMENTS.
 - DOOR ~~TO BE~~ METAL CLAD FIREPROOF CLASS A (3'-6" x 6'-8") WITH NON-REMOVABLE PIN HINGES AND WITH LOCK AND 4 KEYS PROVIDED BY CONTRACTOR.
 - ALL CONTACTORS AND RELAYS ~~TO BE~~ ENCLOSED IN NEMA-4 ENCLOSURES.
 - VAULT BUILDING CONSTRUCTION AND MATERIALS ARE TO CONFORM TO THE ABOVE RECOMMENDED SPEC. ITEM L-109.
 - EXTERIOR CONCRETE BLOCK WALLS ~~TO BE~~ SEALED WITH TWO COATS OF APPROVED SEALER, THE FINAL COAT ~~TO BE~~ WHITE.

SURVEYED BY _____ DATE _____

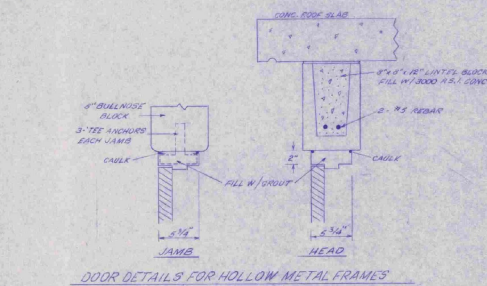
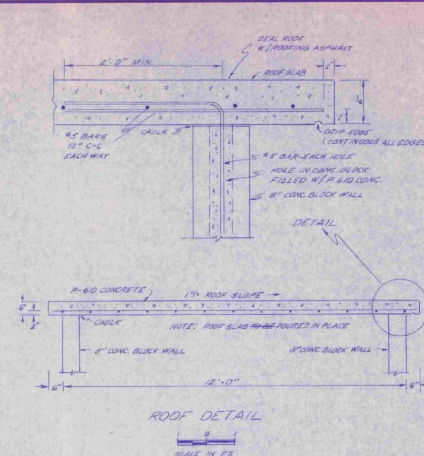
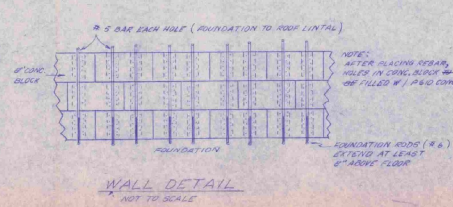
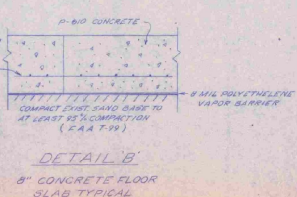
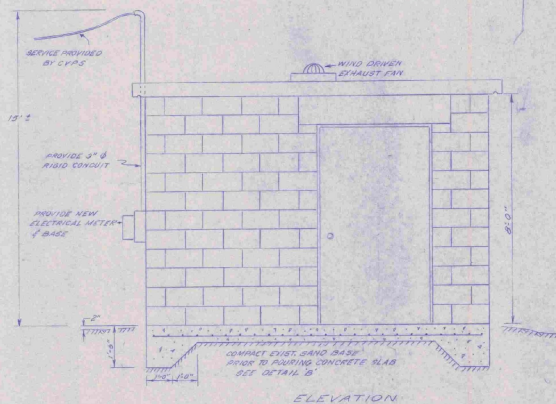
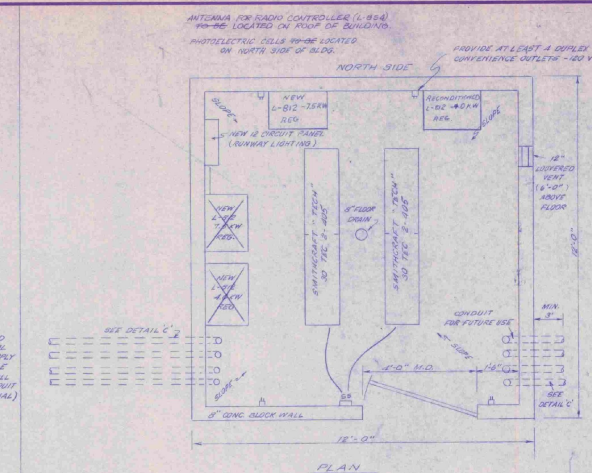
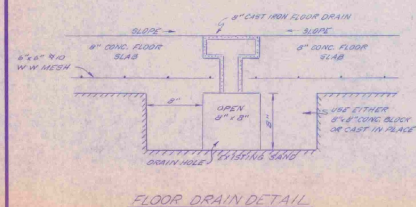
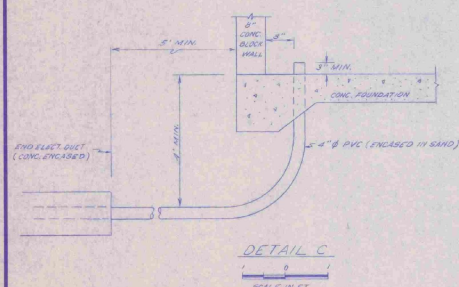
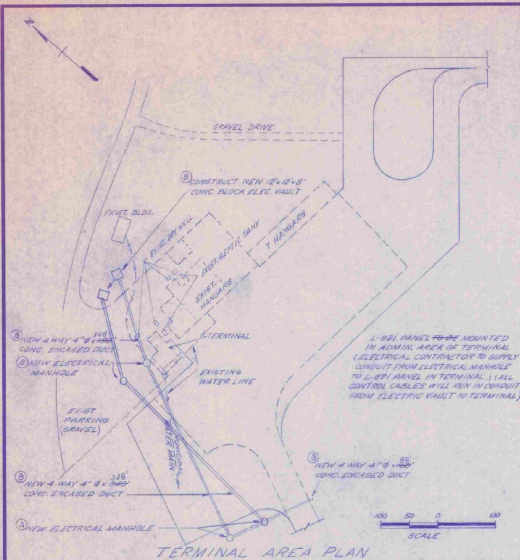
DRAWN BY MBR DATE _____

TRACED BY _____ DATE _____

AIRPORT ELECTRICAL VAULT

PROJ. ADAP NO. 5-50-0018-04

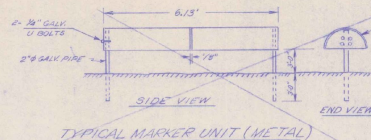
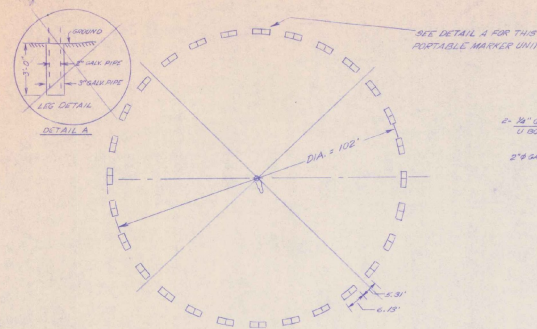
SHEET 4 OF 16



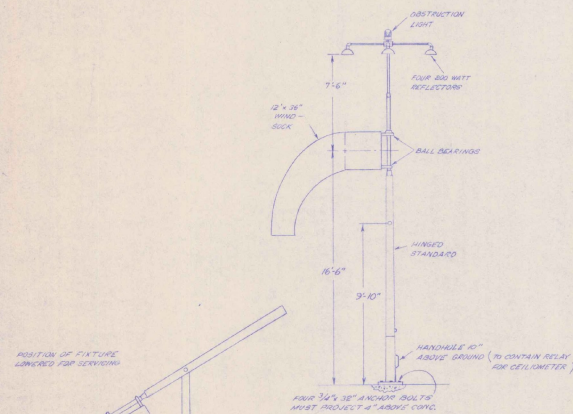
AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
Dated: 6/10/81
By: [Signature]

- NOTES
- REFER TO E.A. LID FOR SPECIFICATIONS
 1. MOUNT CONTROLS, BOOSTER TRANSFORMERS & MISC. HARDWARE ON SAME WALL AS NEW 12 CIRCUIT PANEL BOX.
 2. ALL CONDUIT TO BE RIGID METAL CONDUIT SIZED ACCORDING TO CODE.
 3. PROVIDE GROUND BUS BENEATH 12 CIRCUIT PANEL BOX.
 - 4.
 5. PROVIDE AT LEAST 1" W/ROOF SLABS (TO EXIST)
 6. FOUNDATION FLOOR TO BE TO CENTER OF VAULT.
 7. REFER TO L-100-3.0 FOR PAINTING REQUIREMENTS
 8. DOOR TO BE METAL LEAD FIREPROOF CLASS A (3/16" x 6-5") WITH NON-REMOVABLE PIN HINGES AND WITH LOCK AND 4 KEYS PROVIDED BY CONTRACTOR.
 9. ALL CONTROLS, AND RELAYS TO BE ENCLOSED IN NEMA 4 ENCLOSURES.
 10. VAULT BUILDING CONSTRUCTION AND MATERIALS ARE TO CONFORM TO THE ABOVE RECOMMENDED SPEC. FROM L-100.
 11. EXTERIOR CONCRETE BLOCK WALLS TO BE SEALED WITH TWO COATS OF APPROVED SEALER. THE FINISH COAT TO BE WHITE.

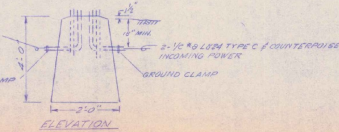
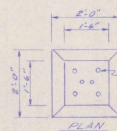
SURVEYED BY: [Signature] DATE: [Date]
DRAWN BY: [Signature] DATE: [Date]
TRACED BY: [Signature] DATE: [Date]
AIRPORT ELECTRICAL VAULT
PROJ. ADAP NO. 67-20-0018-04
SHEET 2 OF 10



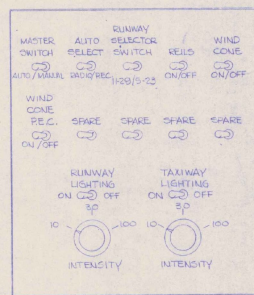
STANDARD 55 GAL. METAL DRUM
CUT IN HALF AND WELDED ENDS TO
END AND PAINTED AS FOLLOWS:
1ST COAT WHITE UNDERPAINT
2ND COAT WHITENING PRIMER/LACQUER
SWISS 3000 "FIRE ORANGE"
3RD COAT "FIRE ORANGE"
4TH COAT "FIRE ORANGE"
5TH COAT "FIRE ORANGE"
6TH COAT "FIRE ORANGE"
7TH COAT "FIRE ORANGE"
8TH COAT "FIRE ORANGE"
9TH COAT "FIRE ORANGE"
10TH COAT "FIRE ORANGE"
11TH COAT "FIRE ORANGE"
12TH COAT "FIRE ORANGE"
THE SURFACES SHALL BE
THOROUGHLY CLEANED OF ALL
RUST, SCALE, DIRT, OIL AND OTHER
FOREIGN SUBSTANCES TO THE
SATISFACTION OF THE ENGINEER.



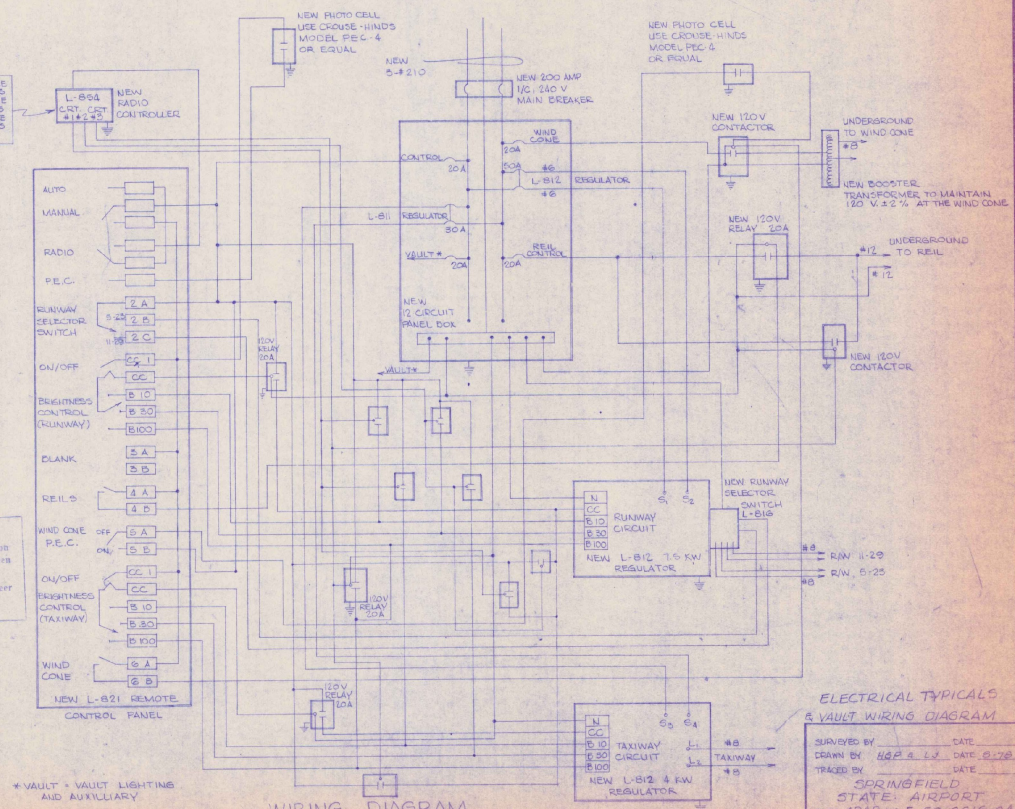
TWELVE FOOT
ILLUMINATED WIND CONE
WITH HINGED STANDARD
CROUSE-HINDS TYPE WC-36
CAT. NO. 48910 A
OR EQUAL



BASE FOR WIND CONE



AS BUILT PLANS
I, the undersigned, certify that all the construction
required by this set of drawings has been
reconstructed as indicated herein.
By: *Lawrence P. Bowers* Resident Engineer
Date: 6/13/82

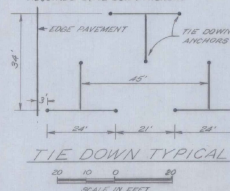


- NOTES:
1. MOUNT NEW PHOTOCELL ON NORTH SIDE OF NEW ELECTRICAL VAULT.
 2. NEW L-812 AND L-813 REGULATORS BY HEVI-DUTY ELECTRIC, MODELS 88280 AND 88610 OR APPROVED EQUAL.
 3. L-821 (REMOTE CONTROL PANEL) TO BE MOUNTED IN EXISTING TERMINAL AT THE DIRECTION OF THE ENGINEER. ALL OTHER ELECTRICAL EQUIPMENT TO BE MOUNTED IN NEW ELECTRICAL VAULT (SEE DIAGRAM BELOW).
 4. ALL WIRING #12 AWG UNLESS NOTED OTHERWISE.
 5. EXISTING 4 KW REGULATOR (IN TERMINAL) TO BE REMOVED AND STORED ON AIRPORT PROPERTY AS DIRECTED BY THE ENGINEER.
 6. ALL WIRING AND EQUIPMENT MUST MEET THE NATIONAL ELECTRIC CODE.
 7. CONTACTOR AMPERAGE TO MEET EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
 8. NEW RADIO CONTROLLER TO ADHERE TO AC 150-5540-49 OF 10 AUGUST 1977.
 9. ALL CONTACTORS AND RELAYS TO BE ENCLOSED IN NEMA-4 ENCLOSURES.
 10. CONTRACTOR (B) SHALL PAINT A REFERENCE MARK ON THE NEW APRON FOR CEILOMETER READING AT THE LOCATION INDICATED BY THE F.S.O.

ELECTRICAL TYPICALS
& VAULT WIRING DIAGRAM

SURVEYED BY: DATE: 6/78
DRAWN BY: 4828 L.V. DATE: 6/78
TRACED BY: DATE: 6/78
SPRINGFIELD
STATE - AIRPORT
PROJ. ADAP. NO. 5-50-0016-04
SHEET 5 OF 10

1. EXISTING CONTOURS & DESIGN CONTOURS ARE APPROXIMATELY THE SAME.
2. EXISTING D.I.'S TO BE ADJUSTED TO GRADE.
3. ITEM 601.532 IS DIA. ACCOMP TO INCLUDE TRENCH EXCAV., INSTALLATION & BACKFILL.

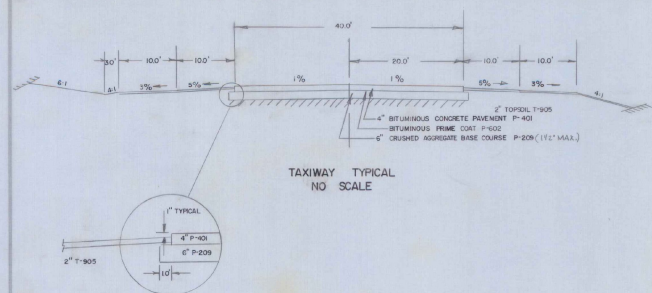


ITEM 202.14

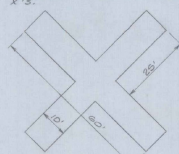
----- LIMITS OF CONSTRUCTION

I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
By Howard P. Barnes Resident Engineer
Date 6/19/01

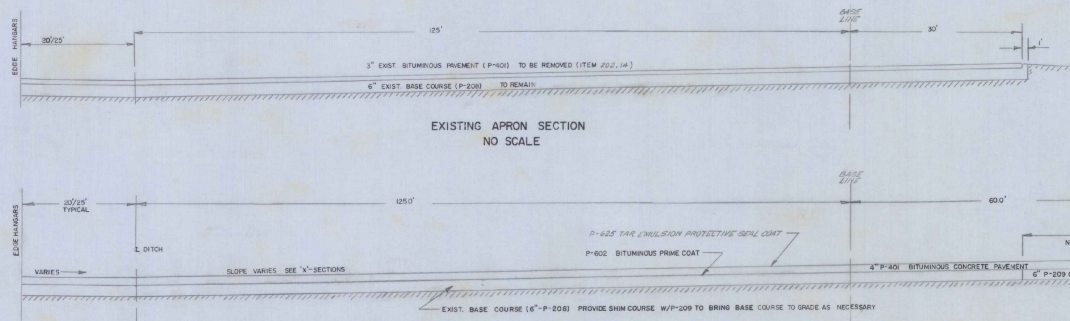
DRAWN BY	GWD	DRAWING NO	6 OF 16
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THE CONTRACTOR WILL BE RESPONSIBLE FOR PROPERLY PLACING AND ANCHORING THESE 'X'S. THERE IS NO SEPARATE PAYMENT FOR THE 'X'S.

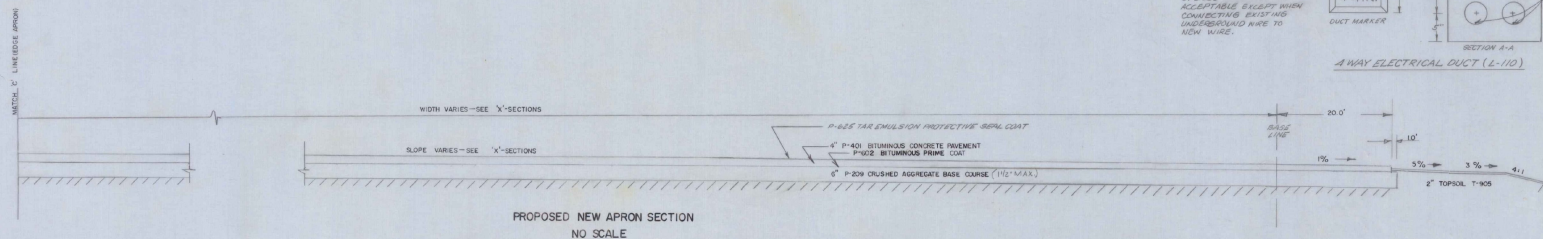


CLOSED RUNWAY MARKER
TWO REQUIRED (YELLOW)
SCALE: 1"=20'

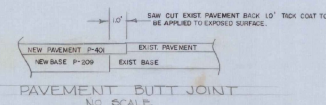


EXISTING APRON REHABILITATION SECTION - TYPICAL
NO SCALE

- NOTES
1. COMPACT SUBGRADE AS PER P-158 & T-61
 2. TOPSOIL STRIPPED FROM NEW CONSTRUCTION TO BE STOCKPILED & REUSED AS NEEDED. REFER TO ITEM P-152-2.12. TOPSOILING UNDER P-152 IS NOT A SEPARATE PAY ITEM, BUT SHOULD BE INCLUDED IN THE BID PRICE FOR COMMON EXCAVATION
 3. ITEM P-625 TO BE APPLIED 1/2\"/>
- ITEM G-27 SEED, LIME FERTILIZER
- THE SEED MIXTURE SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
- | TYPE OF SEEDS | % PLS |
|----------------------|-------|
| CARROTING AND FESCUE | 40 |
| ALFA PERCU | 20 |
| HEMLOCK BLUE | 20 |
| RED TOP | 10 |
| PERENNIAL RYE | 5 |
| WHITE CLOVER | 5 |
| ALSKA CLOVER | 5 |
| GRASS | 5 |
- ITEM P-625 TO BE EMISSION ONLY APPLIED BY DISTRIBUTOR IN TWO APPLICATIONS AS INDICATED IN SECTION 257.12 OF THE SPECIFICATIONS.

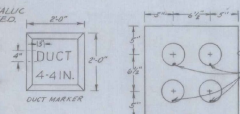
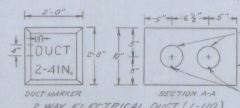
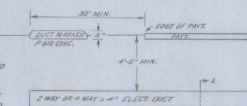


PROPOSED NEW APRON SECTION
NO SCALE



NOTES (L-110)

1. COST OF RESTORING SURFACE TO ITS ORIGINAL CONDITION SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE FOR L-110 INSTALLATION OF AIRPORT UNDERGROUND ELECTRICAL DUCTS.
2. COST OF DUCT MARKERS SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE FOR L-110 INSTALLATION OF AIRPORT UNDERGROUND ELECTRICAL DUCTS.
3. NO HARD LETTERING ON DUCT OR CABLE MARKER.
4. CONDUIT TO BE NEW METALLIC RIGID (PLASTIC - PVC) FIBER SPEC. W-C-1094 (PAA L-110 TYPE I).
5. CABLE AND JUNKIE MARKERS AND REQUIRED NEW PAA SPEC. L-110. CABLES WILL NOT BE ACCEPTABLE EXCEPT WHEN CONNECTED TO EXISTING UNDERGROUND WIRE TO NEW WIRE.



SECTION A-A
4 WAY ELECTRICAL DUCT (L-110)

AS BUILT PLANS

I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
By James P. Proulx Resident Engineer
Date 6/10/81

ADAP NO. 5-50-0016-04

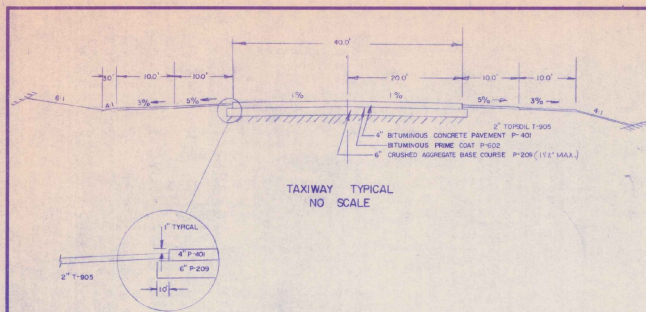
SPRINGFIELD STATE AIRPORT
(HARTNESS)
SPRINGFIELD, VERMONT

TYPICAL SECTIONS

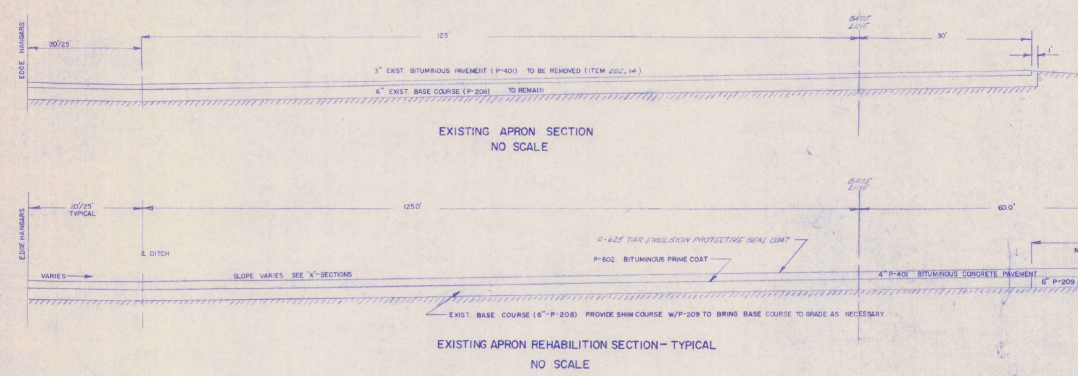
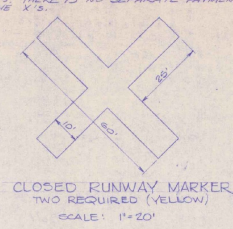
VERMONT AGENCY OF TRANSPORTATION

MONTPELIER, VERMONT

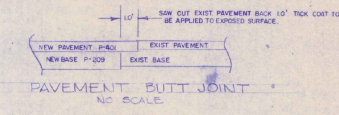
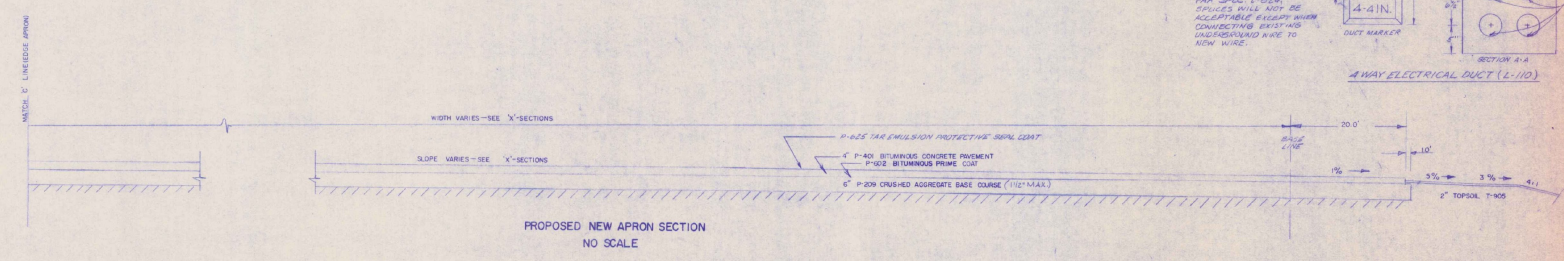
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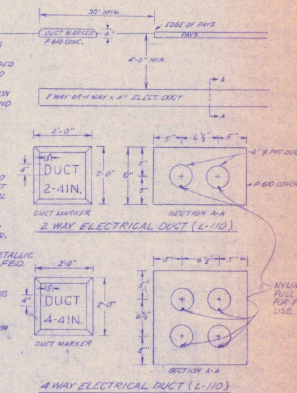
THE CONTRACTOR WILL BE RESPONSIBLE FOR PROPERLY PLACING AND ANCHORING THESE X'S. THERE IS NO SEPARATE PAYMENT FOR THE X'S.



- NOTES
1. CONTACT SUBGRADE AS PER PAA P-152 & T-61
 2. TOPSOIL STRIPPED FROM NEW CONSTRUCTION TO BE STOCKPILED AND REUSED AS NEEDED, REFER TO ITEM P-152 I.E. TOPSOILING UNDER P-152 IS NOT A SEPARATE PAY ITEM, BUT SHOULD BE INCLUDED IN THE BID PRICE FOR COMMON EXCAVATION
 3. ITEM P-402 TO BE APPLIED BY DUNE (MAN.) AFTER COMPLETION OF ITEM P-401
 4. ITEM 6-ET, SEED, LIME & FERTILIZER
THE SEED MIXTURE SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
TYPE OF GRASS: 75% DLS
CRISPING RED FESCUE 40
ALFA FESCUE 10
KENTUCKY BLUE 20
RED TOP 10
PERENNIAL RYE 5
WHITE CLOVER 5
ALFALFA CLOVER 5
OTHER 5
 5. ITEM P-152 TO BE EMULSION ONLY APPLIED BY DISTRIBUTION IN TWO APPLICATIONS AS INDICATED IN SECTION 1251/2 OF THE SPECIFICATIONS.

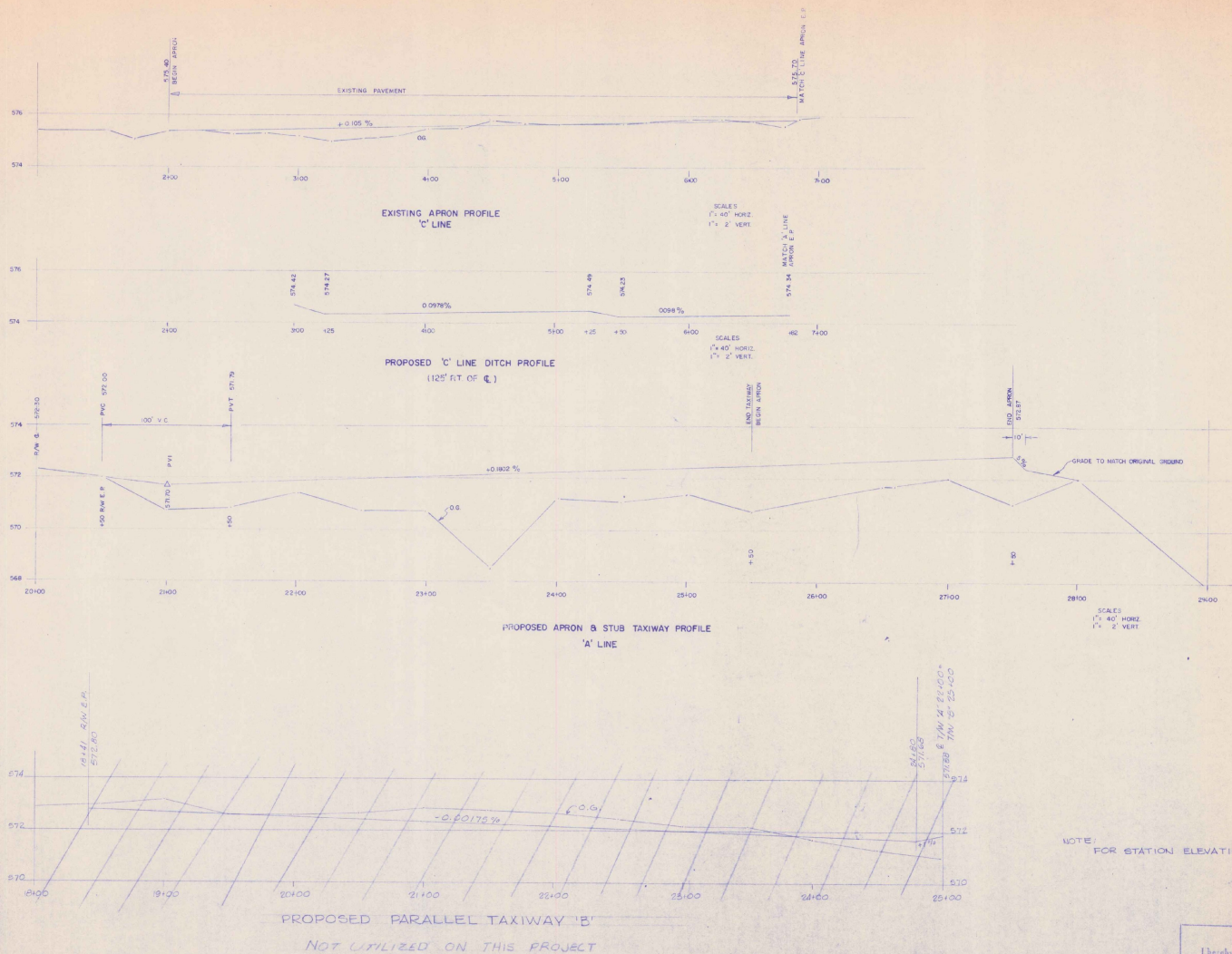


- NOTES (1-110)
1. COST OF RESTORING SURFACE TO ITS ORIGINAL CONDITION SHALL BE INCLUDED IN THE CONTRACTORS BID PRICE FOR LINE 110 OF ITEM L-110 (INSTALLATION OF AIRPORT UNDERGROUND ELECTRICAL DUCT.)
 2. DUCT OF DUCT MARKERS ARE INCLUDED IN THE CONTRACTORS BID PRICE FOR LINE 110 OF ITEM L-110 (INSTALLATION OF AIRPORT UNDERGROUND ELECTRICAL DUCT.)
 3. NO HAND LETTERING ON DUCT OR CABLE MARKER.
 4. CONDUIT TO BE NON-METALLIC RIGID (PLASTIC - PVC) FIB. SPEC. W-1-C-1024 (PAA L-110 TYPE I)
 5. CABLE AND DUCT MARKERS ARE REQUIRED PER PAA SPEC. L-110, TUBES WILL NOT BE ACCEPTABLE EXCEPT WHEN CONDUCTIVE EXIST AND UNDERGROUND WIRE TO NON WIRE.



AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
By *Howard P. Poirer*, Resident Engineer
Date *6/19/81*

ADAP NO. 5-50-0016-04
SPRINGFIELD STATE AIRPORT
(HARTNESS)
SPRINGFIELD, VERMONT
TYPICAL SECTIONS
VERMONT AGENCY OF TRANSPORTATION
MONTPELIER, VERMONT
DRAWN BY *END* DRAWING NO. *7 OF 16*
D-8 OCT 14 1981



AS BUILT PLANS

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

By Edward P. Bannister, President, 1/15/10 or
Date 6/15/10

ADAP NO. 5-50-0016-04

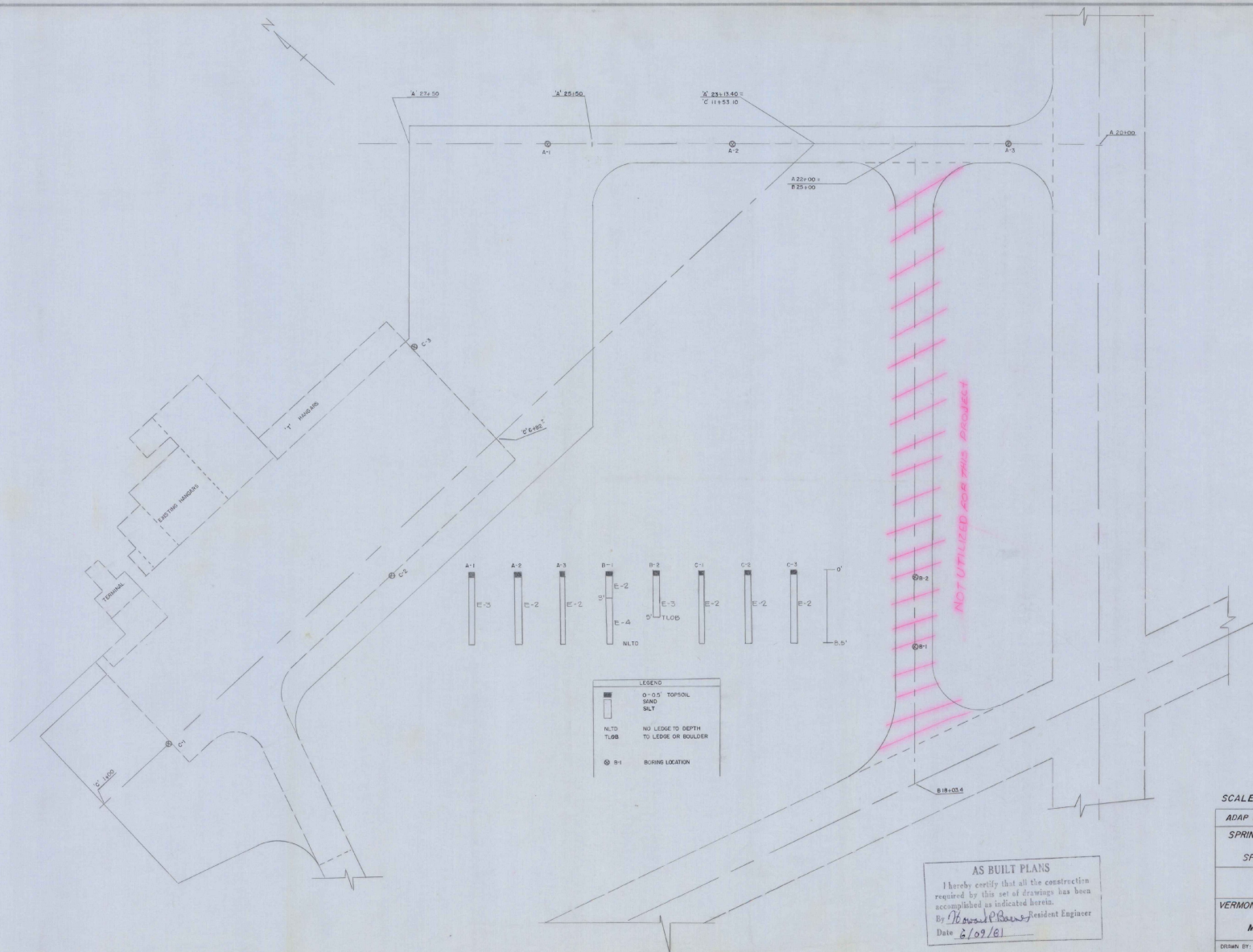
SPRINGFIELD STATE AIRPORT
(HARTNESS)
SPRINGFIELD, VERMONT

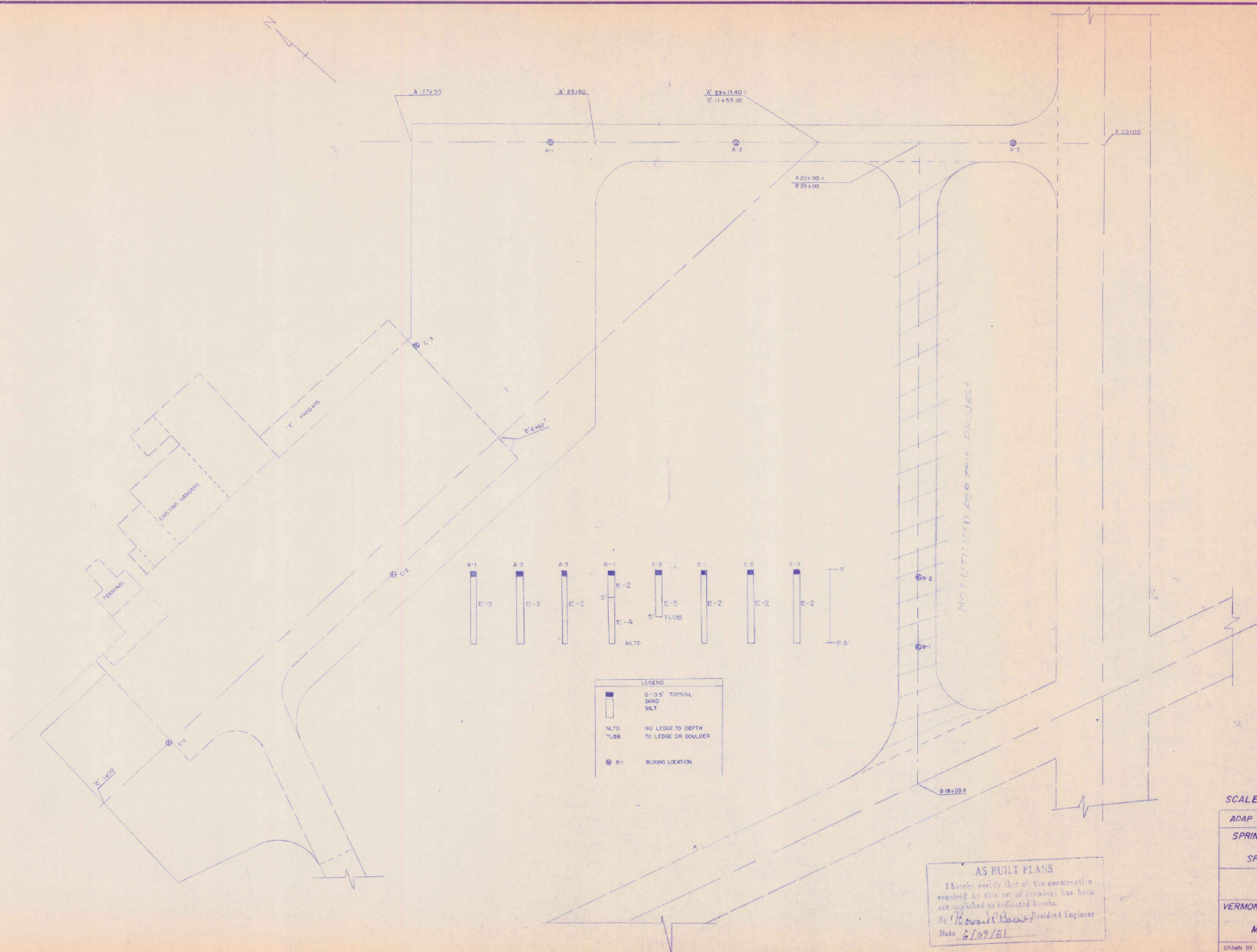
APRON & TAXIWAY PROFILES

VERMONT AGENCY OF TRANSPORTATION

MONTPELIER, VERMONT

DRAWN BY: END DRAWING NO. B OF 16





STATE OF VERMONT DEPARTMENT OF HIGHWAYS

PROJECT NO. _____

SUMMARY SHEET NO. _____ OF _____ 19 _____

APPROXIMATE SUMMARY OF QUANTITIES

APPROXIMATE SUMMARY OF QUANTITIES						
R. O. W.	BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.
					CONTRACT "A"	
			10,000	SV	Excavation & Removal of Airport Pavt.	803.14
			1000	CY	Granular Fillwork	803.32
			373	LF	18" ASPHALT (O.P.E.)	601.082
			3	EA	PRCP D.I. w/ Cast Iron Crate	608.35
			5	EA	Variable Elevation of D.I. CR. or M.H.	608.60
			1	LS	Mobilization	635.10
			80	KCS	Seed	651.03
			800	LB5	50-Filter	651.08
			2	TW	Agricultural Curbstone	651.25
			2	TW	Hay Mulch	651.25
			8000	EY	Common Excavation	P 853.41
			50	CY	Solid Rock Excavation	P 853.43
			2520	CY	Crushed Aggregate Base Course	P 853.55
			6000	BA	Bituminous Prime Coat	P 853.62
			1200	BA	Bituminous Tack Coat	P 853.63
			5520	TW	Bituminous Surface Course	P 853.64
			1	LS	Turnway Paint Job	92.20
			8525	BA	Tar Emulsion Protective Seal Coat	P 853.65
			28	EA	Tiedown Anchor	
			500	CY	Topsoiling (47 Site)	T 805.5
			92	LF	Airport U.S. Elec. Duct (Runway)	L 110
			49	LF	Airport U.S. Elec. Duct (Dwarp)	L 110
					CONTRACT "B"	
			2	EA	PRCP M.H. w/ Cast Iron Cover	608.31
			1	LS	Mobilization	635.10
			1	EA	Lighted 12" Wind Cone Complete in Place (incl. Base & Elec.)	L 107
			9500	LF	Cable Trench	L 108
			81,000	LF	#18 L-824 Type C, 5KV Installed in Trench, or Duct	L 108
			4700	LF	#18 L-824 Type C, 5KV Installed in Trench	L 108
			10,400	LF	#18 Bare Conduits w/ins. Installed in Trench, or Duct, including Around Rods and Connectors	L 108
			1	LS	Airport Transformer Vault & Equipment Complete in Place	L 108
			30	EA	Medium Intensity Runway Lights (Clear Lens) Slope Mounted	L 125
			2	EA	Medium Intensity Runway Lights (Clear Lens) Pole Mounted	L 125
			33	EA	Medium Intensity Taxiway Lights (Blue Filter) Pole Mounted	L 125
			2	EA	Medium Intensity Taxiway Lights (Blue Filter) Pole Mounted	L 125
			12	EA	Medium Intensity Threshold Lights (Red/Amber Filter) Slope Mounted	L 125
			680	LF	Airport U.S. Elec. Duct (Runway)	L 110
			120	LF	25 Conduit for #18 L-824, TYPE A, 600V.	L 110

DETAILED SUMMARY OF QUANTITIES

[illegible]

DETAILED SUMMARY OF QUANTITIES

[illegible]

TYPE OF CONSTRUCTION

[illegible]

SPRINGFIELD
STATE AIRPORT

ADAP
No. 5-50-0016-04 Filed
Sheet 10 of 16 Sheets

EARTHWORK

V.C.	STATION	GRADES		CORR. V.C.	DIST.	TOTAL EXCAVATION EARTH AND ROCK		EMBANKMENT		BASE	
		ON TANGENT	ON V. CURVES			AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
100	30+00	571.20			0						
100	30+20	571.20			116						
100	30+40	571.70	571.70	0	10						
100	30+60	571.70	571.70	0	10						
100	30+80	571.50			10						
100	31+00	571.50			2						
100	31+20	571.06			0						
100	31+40	571.12			0						
100	31+60	571.24			30						
100	31+80	571.33			30						
100	32+00	571.43			7						
100	32+20	572.52			0						
100	32+40	572.60			0						
100	32+60	572.60			0						
100	32+80	572.78			44						
100	33+00	572.84			43						
100	33+20	572.84			0						
100	33+40	572.84			0						
100	33+60	572.84			0						
100	33+80	572.84			0						
100	34+00	572.84			0						
100	34+20	572.84			0						
100	34+40	572.84			0						
100	34+60	572.84			0						
100	34+80	572.84			0						
100	35+00	572.84			0						
100	35+20	572.84			0						
100	35+40	572.84			0						
100	35+60	572.84			0						
100	35+80	572.84			0						
100	36+00	572.84			0						
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100	36+80	572.84			0						
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100	37+20	572.84			0						
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100	37+80	572.84			0						
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100	38+20	572.84			0						
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100	47+80	572.84			0						
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100	48+60	572.84			0						
100	48+80	572.84			0						
100	49+00	572.84			0						
100	49+20	572.84			0						
100	49+40	572.84			0						
100	49+60	572.84			0						
100	49+80	572.84			0						
100	50+00	572.84			0						

CARRIED FORWARD
COLUMN FOOTINGS

EARTHWORK

GRADES						TOTAL EXCAVATION EARTH AND ROCK		EMBANKMENT		BASE		
V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ON V. CURVES	CORR. V.C.	DIST.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
		100+00	571.70									
		100+15										
		100+20	571.50			25	60		50			
		100+25	571.50				86	70	30	21		
		100+30	571.50				120	125	0	41		
		100+35	571.50				150	150	0	5		
		100+40	571.50				210	210	0	8		
		100+45	571.50				300	300	0	0		
		100+50	571.50				430	430	10	8		
		100+55	571.50				600	600	0	3		
		100+60	571.50				800	800	0			
		100+65	571.50				1000	1000	0			
		100+70	571.50				1200	1200	0			
		100+75	571.50				1400	1400	0			
		100+80	571.50				1600	1600	0			
		100+85	571.50				1800	1800	0			
		100+90	571.50				2000	2000	0			
		100+95	571.50				2200	2200	0			
		101+00	571.50				2400	2400	0			
		101+05	571.50				2600	2600	0			
		101+10	571.50				2800	2800	0			
		101+15	571.50				3000	3000	0			
		101+20	571.50				3200	3200	0			
		101+25	571.50				3400	3400	0			
		101+30	571.50				3600	3600	0			
		101+35	571.50				3800	3800	0			
		101+40	571.50				4000	4000	0			
		101+45	571.50				4200	4200	0			
		101+50	571.50				4400	4400	0			
		101+55	571.50				4600	4600	0			
		101+60	571.50				4800	4800	0			
		101+65	571.50				5000	5000	0			
		101+70	571.50				5200	5200	0			
		101+75	571.50				5400	5400	0			
		101+80	571.50				5600	5600	0			
		101+85	571.50				5800	5800	0			
		101+90	571.50				6000	6000	0			
		101+95	571.50				6200	6200	0			
		102+00	571.50				6400	6400	0			
		102+05	571.50				6600	6600	0			
		102+10	571.50				6800	6800	0			
		102+15	571.50				7000	7000	0			
		102+20	571.50				7200	7200	0			
		102+25	571.50				7400	7400	0			
		102+30	571.50				7600	7600	0			
		102+35	571.50				7800	7800	0			
		102+40	571.50				8000	8000	0			
		102+45	571.50				8200	8200	0			
		102+50	571.50				8400	8400	0			
		102+55	571.50				8600	8600	0			
		102+60	571.50				8800	8800	0			
		102+65	571.50				9000	9000	0			
		102+70	571.50				9200	9200	0			
		102+75	571.50				9400	9400	0			
		102+80	571.50				9600	9600	0			
		102+85	571.50				9800	9800	0			
		102+90	571.50				10000	10000	0			
		102+95	571.50				10200	10200	0			
		103+00	571.50				10400	10400	0			
		103+05	571.50				10600	10600	0			
		103+10	571.50				10800	10800	0			
		103+15	571.50				11000	11000	0			
		103+20	571.50				11200	11200	0			
		103+25	571.50				11400	11400	0			
		103+30	571.50				11600	11600	0			
		103+35	571.50				11800	11800	0			
		103+40	571.50				12000	12000	0			
		103+45	571.50				12200	12200	0			
		103+50	571.50				12400	12400	0			
		103+55	571.50				12600	12600	0			
		103+60	571.50				12800	12800	0			
		103+65	571.50				13000	13000	0			
		103+70	571.50				13200	13200	0			
		103+75	571.50				13400	13400	0			
		103+80	571.50				13600	13600	0			
		103+85	571.50				13800	13800	0			
		103+90	571.50				14000	14000	0			
		103+95	571.50				14200	14200	0			
		104+00	571.50				14400	14400	0			
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		104+10	571.50				14800	14800	0			
		104+15	571.50				15000	15000	0			
		104+20	571.50				15200	15200	0			
		104+25	571.50				15400	15400	0			
		104+30	571.50				15600	15600	0			
		104+35	571.50				15800	15800	0			
		104+40	571.50				16000	16000	0			
		104+45	571.50				16200	16200	0			
		104+50	571.50				16400	16400	0			
		104+55	571.50				16600	16600	0			
		104+60	571.50				16800	16800	0			
		104+65	571.50				17000	17000	0			
		104+70	571.50				17200	17200	0			
		104+75	571.50				17400	17400	0			
		104+80	571.50				17600	17600	0			
		104+85	571.50				17800	17800	0			
		104+90	571.50				18000	18000	0			
		104+95	571.50				18200	18200	0			
		105+00	571.50				18400	18400	0			
		105+05	571.50				18600	18600	0			
		105+10	571.50				18800	18800	0			
		105+15	571.50				19000	19000	0			
		105+20	571.50				19200	19200	0			
		105+25	571.50				19400	19400	0			
		105+30	571.50				19600	19600	0			
		105+35	571.50				19800	19800	0			
		105+40	571.50				20000	20000	0			
		105+45	571.50				20200	20200	0			
		105+50	571.50				20400	20400	0			
		105+55	571.50				20600	20600	0			
		105+60	571.50				20800	20800	0			
		105+65	571.50				21000	21000	0			
		105+70	571.50				21200	21200	0			
		105+75	571.50				21400	21400	0			
		105+80	571.50				21600	21600	0			
		105+85	571.50				21800	21800	0			
		105+90	571.50				22000	22000	0			
		105+95	571.50				22200	22200	0			
		106+00	571.50				22400	22400	0			
		106+05	571.50				22600	22600	0			
		106+10	571.50				22800	22800	0			
		106+15	571.50				23000	23000	0			
		106+20	571.50				23200	23200	0			
		106+25	571.50				23400	23400	0			
		106+30	571.50				23600	23600	0			
		106+35	571.50				23800	23800	0			
		106+40	571.50				24000	24000	0			
		106+45	571.50				24200	24200	0			
		106+50	571.50				24400	24400	0			
		106+55	571.50				24600	24600	0			
		106+60	571.50				24800	24800	0			
		106+65	571.50				25000	25000	0			
		106+70	571.50				25200	25200	0			
		106+75	571.50				25400	25400	0			
		106+80	571.50				25600	25600	0			
		106+85	571.50				25800	25800	0			
		106+90	571.50				26000	26000	0			
		106+95	571.50				26200	26200	0			
		107+00	571.50				26400	26400	0			
		107+05	571.50				26600	26600	0			
		107+10	571.50				26800	26800	0			
		107+15	571.50				27000	27000	0			
		107+20	571.50				27200	27200	0			
		107+25	571.50				27400	27400	0			
		107+30	571.50				27600	27600	0			
		107+35	571.50				27800	27800	0			
		107+40	571.50				28000	28000	0			
		107										

EARTHWORK

V.C.	% GRADE	STATION	GRADES				CORR. V.C.	DIST.	TOTAL EXCAVATION EARTH AND ROCK		AREA	EMBANKMENT		BASE		
			ON TANGENT	ON V. CURVES		CU. YDS.			AREA	CU. YDS.		AREA	CU. YDS.	AREA	CU. YDS.	
100% V.C.	-0.600%	Line "A"														
		20+00	572.50				0									
		+50	572.20	572.00	0	50	116									
		21+00	571.70	571.70	+0.65	10										
		+50	571.73	571.79	0	10	19					5				
		22+00	571.80			18	26				0		0			
		+50	571.97			2	19					0		12		
		23+00	572.06			0	2					15		60		
		+50	572.15			0	2					52		244		
		24+00	572.24			23	23					212		217		
+0.1802%	+50	572.33			39	59					22		44			
	25+00	572.43			7	43					26		28			
	+50	572.52	572.52	0	50	6	SUB-T	420			148	SUB-T	756			
	26+00	572.60			52	88					156					
	+50	572.69			80	122					180		217			
	27+00	572.78			64	115					162		196			
	+50	572.87			10	49					50		150			
	+50	572.87			40	2					112		104			
	28+00	572.90					SUB-T	550			0	SUB-T	1078			
		Line "B"														
		ON TANGENT														
		18+00	572.80													
		+50	572.72													
		19+00	572.70													
		+50	572.61													
		20+00	572.53													
		+50	572.44													
		21+00	572.35													
		+50	572.26													
		22+00	572.18													
		+50	572.09													
		23+00	572.00													
		+50	571.91													
		24+00	571.82													
		+50	571.73													
		25+00	571.65													
		+50	571.56													
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		25+00	571.50													
		25+00	571.50													

EARTHWORK

V. C.	% GRADE	STATION	GRADES		CORR. V. C.	DIST.	TOTAL EXCAVATION EARTH AND ROCK		AREA	CU. YDS.	EMBANKMENT		AREA	CU. YDS.	BASE		
			ON TANGENT	ON V. CURVES			AREA	CU. YDS.			AREA	CU. YDS.			AREA	CU. YDS.	
Line "C"																	
		0 + 75															
		1 + 00	575.30				60				54						
		+ 25	575.33				26	72				62					
		+ 50	575.35				186	135				80	41				
		+ 75	575.38				210	185				8	5				
		2 + 00	575.40				330	224				2	2				
		+ 25	575.43				130	167				18	8				
		+ 50	575.45				234	184				0	8				
		+ 75	575.48				180	182									
		3 + 00	575.51				164	164				0					
		+ 25	575.53				140	141				12	6				
		+ 50	575.56				120	150				23	15				
		+ 75	575.58				110	156				14	13				
		4 + 00	575.61				150	120				14	13				
		+ 25	575.64				172	143				2	7				
		+ 50	575.66				194	169				4	9				
		+ 75	575.69				176	171				2	3				
		5 + 00	575.72				234	183				2	2				
		+ 25	575.74				170	182				4	9				
		+ 50	575.76				150	162				6	5				
		+ 75	575.79				196	174				2	4				
		6 + 00	575.82				180	174				2	2				
		+ 25	575.84				126	174				2	2				
		+ 50	575.86				230	197					1				
		+ 75	575.89			25	148	173				0	4				
		7 + 00	575.90			7	72	29			(7)	24	5				
		+ 25															
		+ 50						974					225				
		+ 75															
		8 + 00															
		+ 25															
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		+ 75															
		9 + 00															
		+ 25															
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		+ 75															
		10 + 00															
		+ 25															
		+ 50															
		+ 75															
		11 + 00															
		+ 25															
		+ 50															
CARRIED FORWARD																	
COLUMN FOOTINGS																	

EARTHWORK SUMMARY

STATE OF VERMONT
DEPARTMENT OF
HIGHWAYS

SUMMARY OF BALANCES										BASE
STATION TO STATION		TOTAL EXCAV. EARTH & ROCK CUBIC YARDS	ROCK EXCAV. CUBIC YARDS	EMBANKMENT CUBIC YARDS	EXCESSES		ACCUMULATIVE EXCESSES		CUBIC YARD	
					CUT	FILL	CUT	FILL		
78+00		25150	440	756						
83+00		20400	350	1072						
88+00		25100	3524	9						
93+00		6+82	5714	225						
			7988	2098						

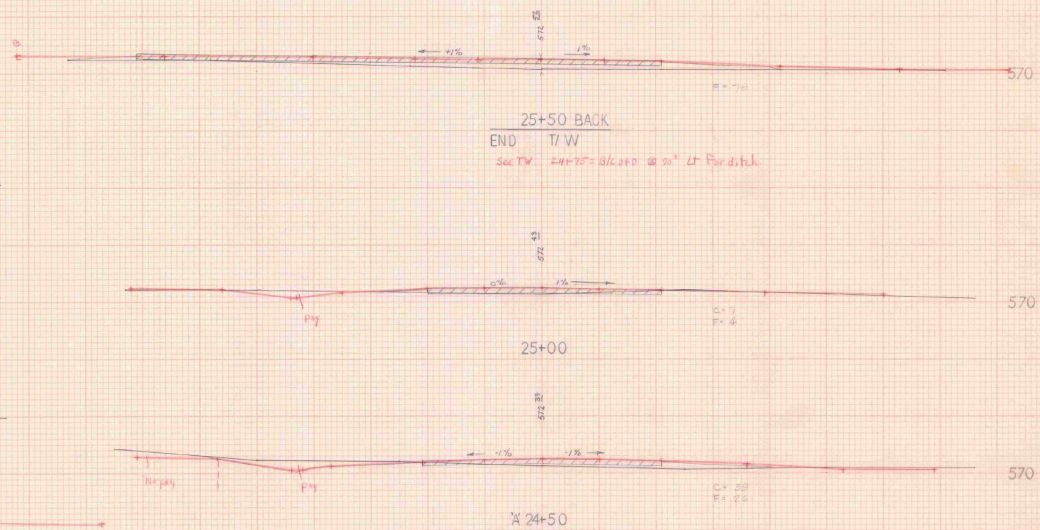
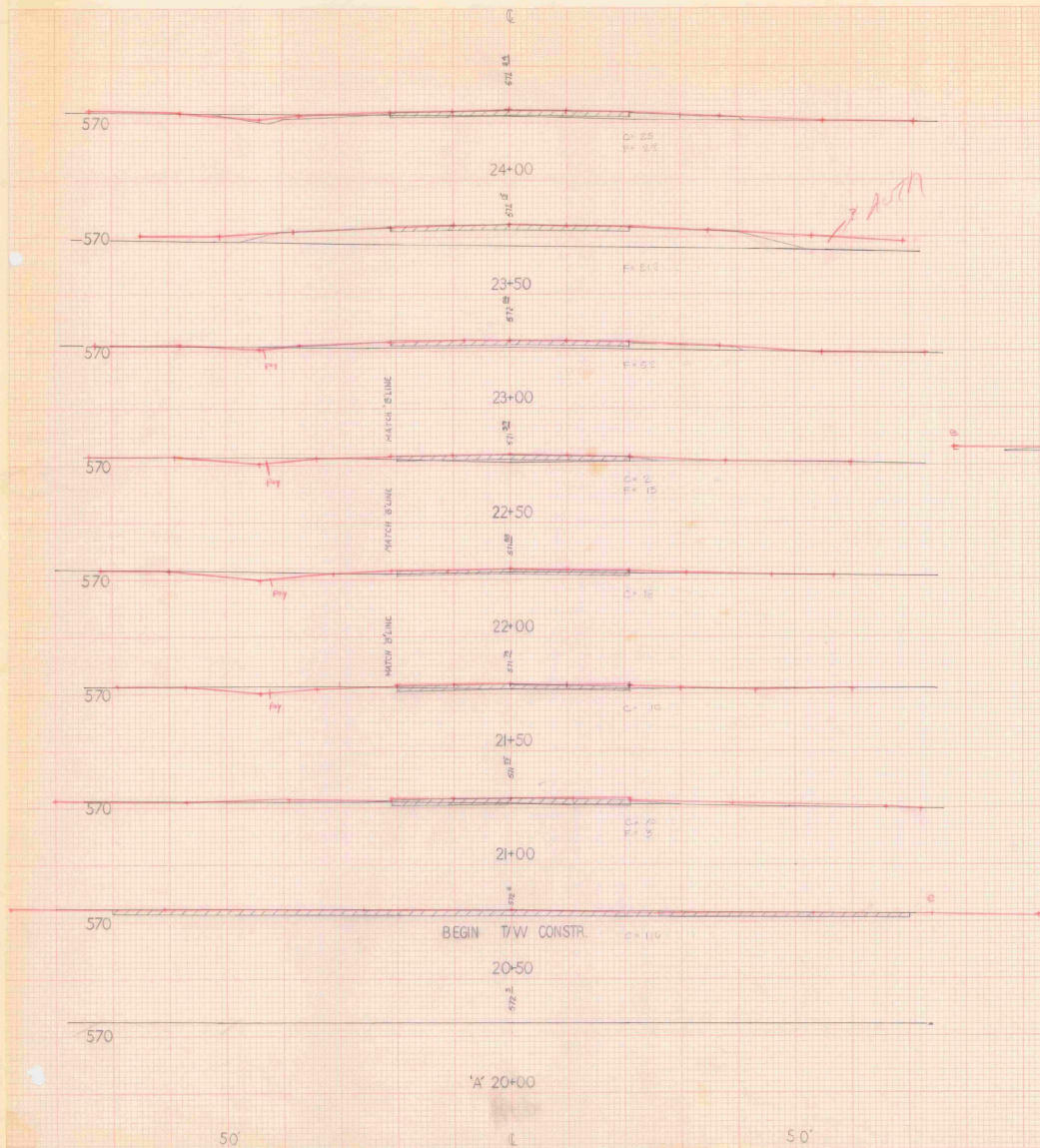
STATE OF VERMONT DEPARTMENT OF HIGHWAYS

PROJECT NO. _____

SUMMARY SHEET NO. _____ OF _____ 19 _____

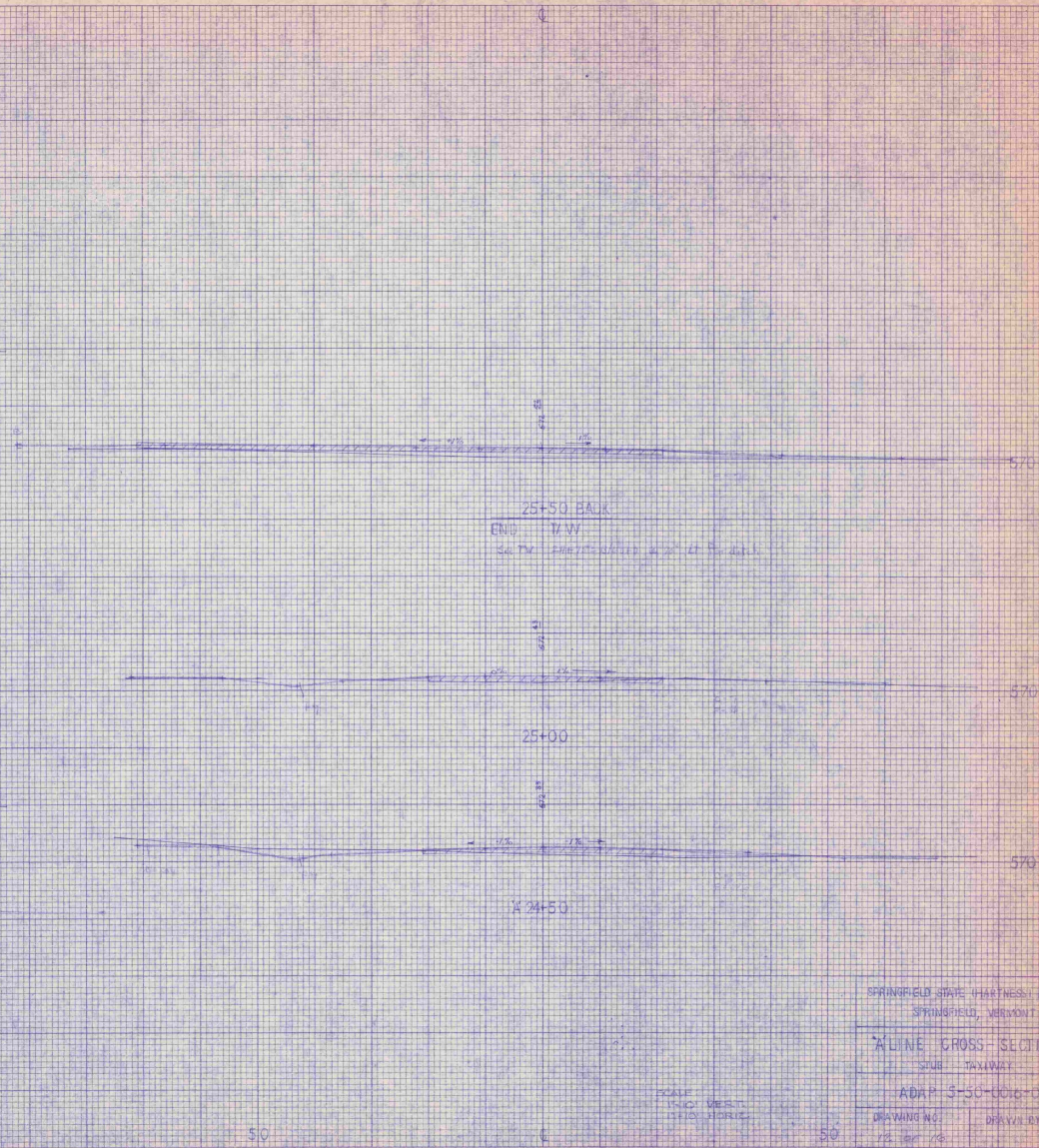
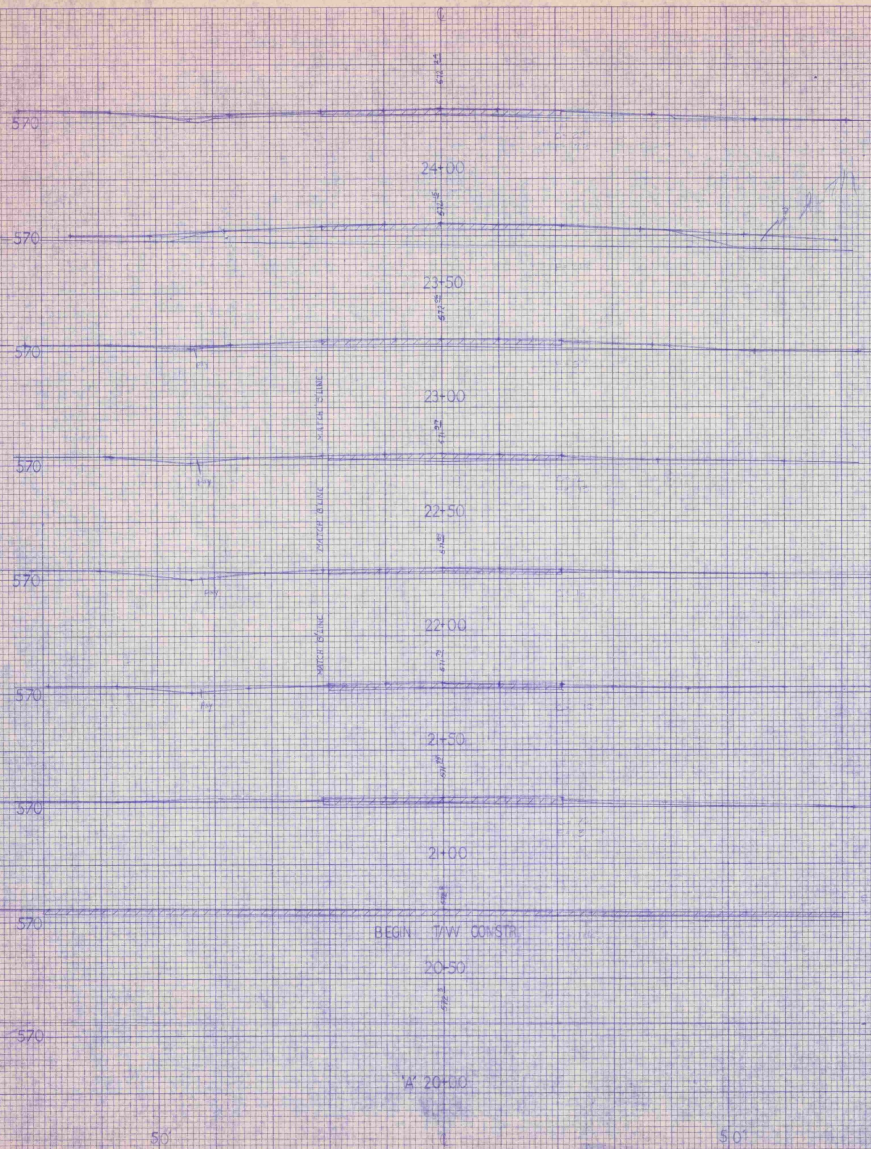
APPROXIMATE SUMMARY OF QUANTITIES						
R. O. W.	BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.
					CONTRACT "A"	
			10,000	CV	Excavation & Removal of Airport Pavt.	202-1
			1,000	CV	Graveling Pavement	202-2
			375	LF	18" ACBMP (2.084)	202-3
			3	EA	12" x 12" x 1/2" w/flat Iron Grate	202-4
			5	EA	12" x 12" x 1/2" w/flat Iron Grate	202-5
			1	EA	12" x 12" x 1/2" w/flat Iron Grate	202-6
			50	LF	Gravel	202-7
			500	LF	Gravel	202-8
			1	EA	12" x 12" x 1/2" w/flat Iron Grate	202-9
			5	EA	12" x 12" x 1/2" w/flat Iron Grate	202-10
			8,000	CV	Common Excavation	202-11
			50	CV	2" x 12" x 1/2" Excavation	202-12
			2,500	CV	Crushed Aggregate Base Course	202-13
			1,000	CV	Crushed Aggregate Base Course	202-14
			1,000	CV	Crushed Aggregate Base Course	202-15
			2,200	CV	Crushed Aggregate Base Course	202-16
			1	EA	12" x 12" x 1/2" w/flat Iron Grate	202-17
			2,200	CV	Crushed Aggregate Base Course	202-18
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SPRINGFIELD STATE (HARTNESS) AIRPORT SPRINGFIELD, VERMONT	
X LINE CROSS-SECTIONS STUB TAXIWAY	
ADAP 5-50-0016-04	
DRAWING NO. 12 OF 16	DRAWN BY:

SCALE:
1"=10' VERT.
1"=100' HORIZ.

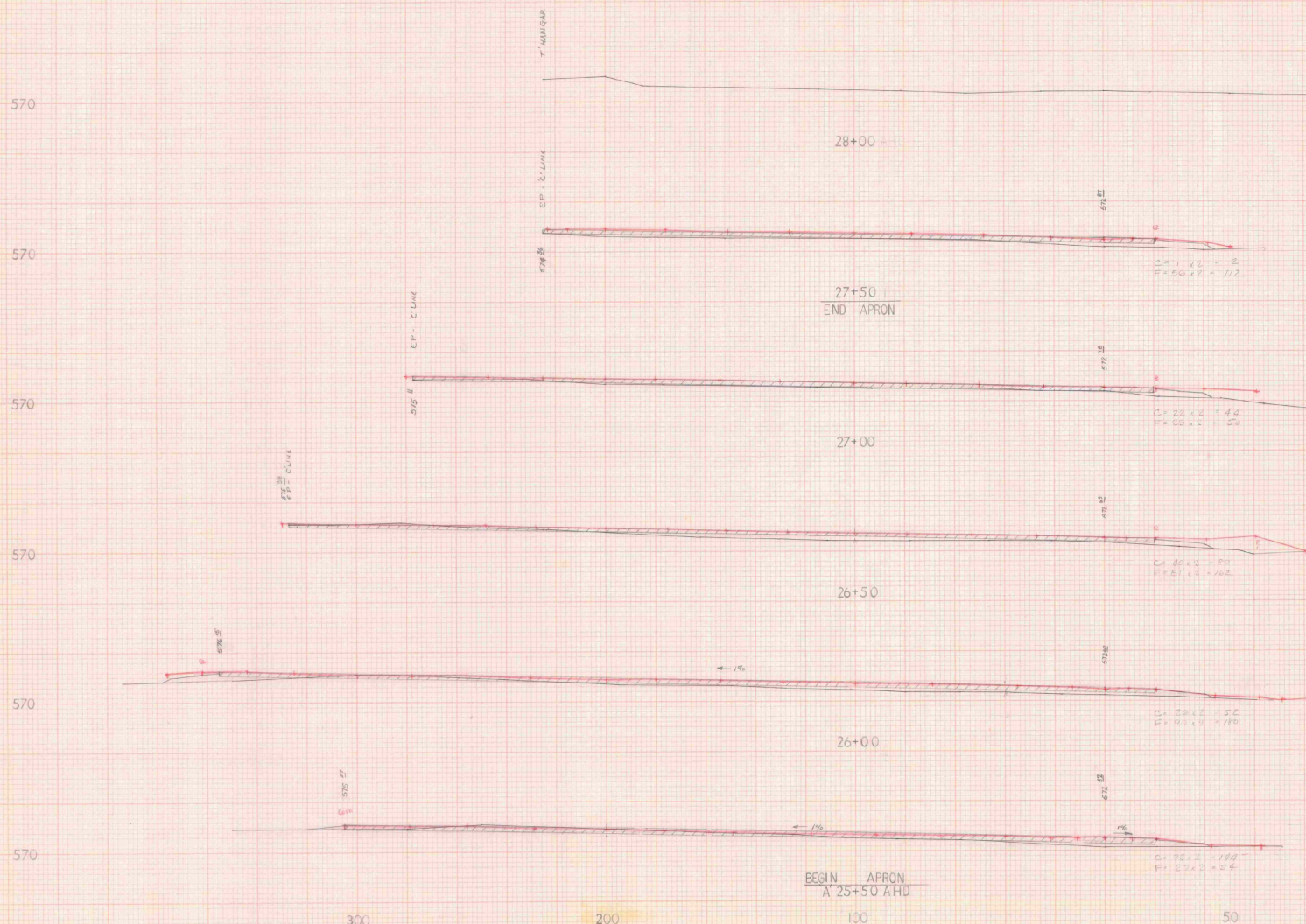


SPRINGFIELD STATE (HARTNESS) AIRPORT
SPRINGFIELD, VERMONT

WALINE CROSS-SECTIONS
SUB TAXWAY

ADAP. 3-50-00-0-04

DRAWING NO. 125.000.125
DRAWN BY

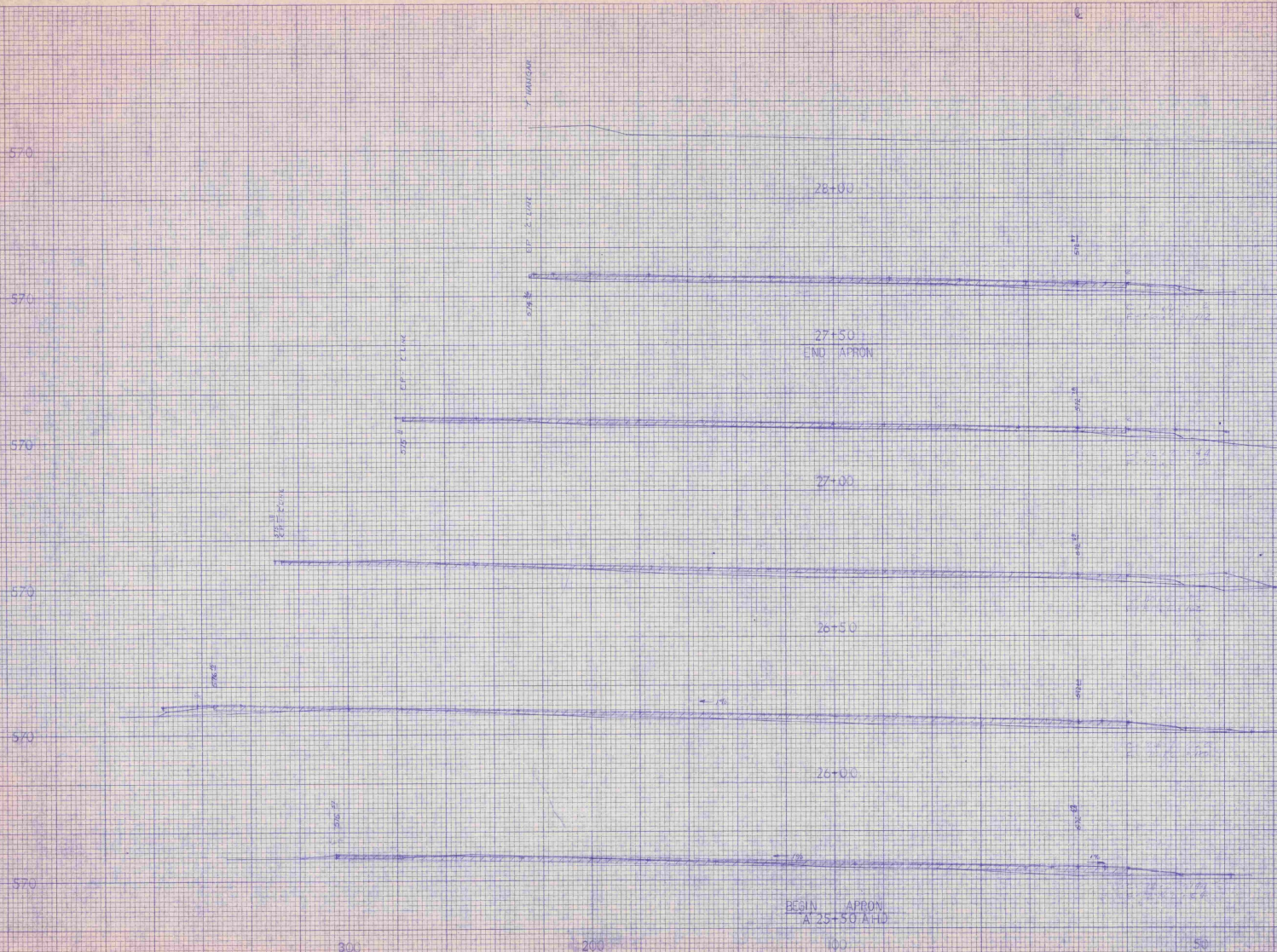


SPRINGFIELD STATE (HARTNESS) AIRPORT SPRINGFIELD VERMONT	
"A" LINE CROSS SECTIONS APRON	
ADAP-5-50-0016-C4	
DRAWING NO.	DRAWN BY
16 OF 16	

ENGINEER: DREXLER CO.
 201 N. 10th St. S.W.
 MINNEAPOLIS, MINN. 55401

APPROVED: H. R. P. V.

ENGINEER: DREXLER CO.
 201 N. 10th St. S.W.
 MINNEAPOLIS, MINN. 55401



SPRINGFIELD STATE HARTLESS AVENUE SPRINGFIELD, MINN.	
CROSS SECTIONS APPROX.	
ADP 5-50-01-1-4	
DRAWING NO. 13 OF 20	DRAWN BY H. R. P. V.

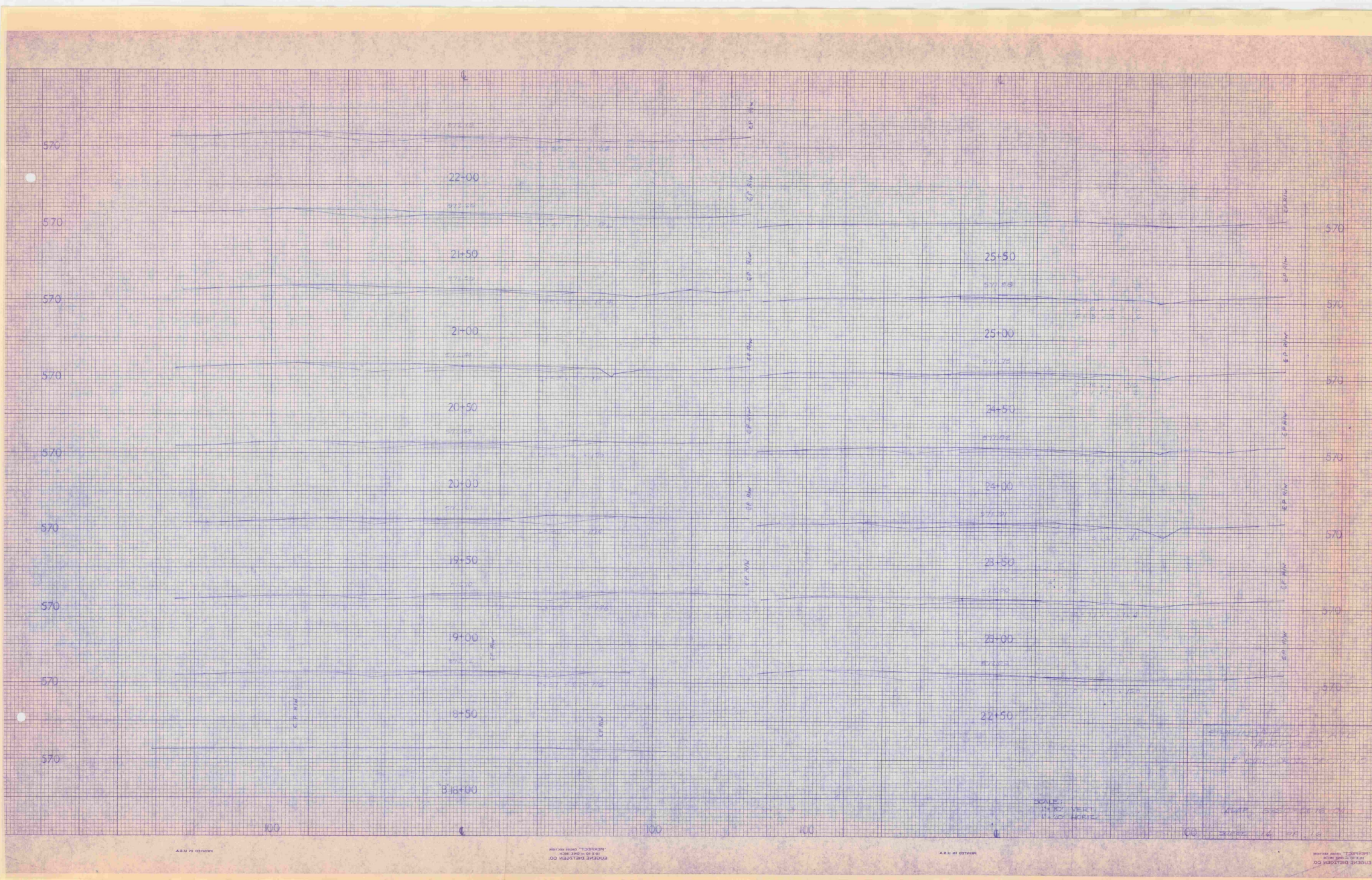


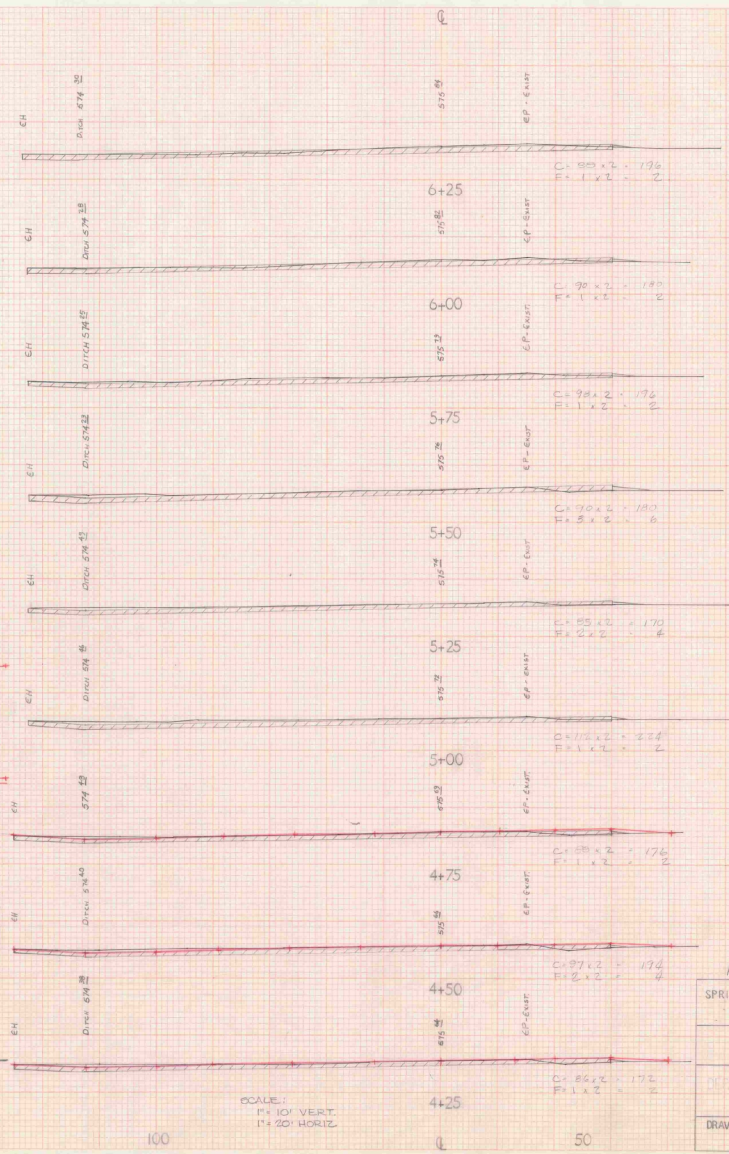
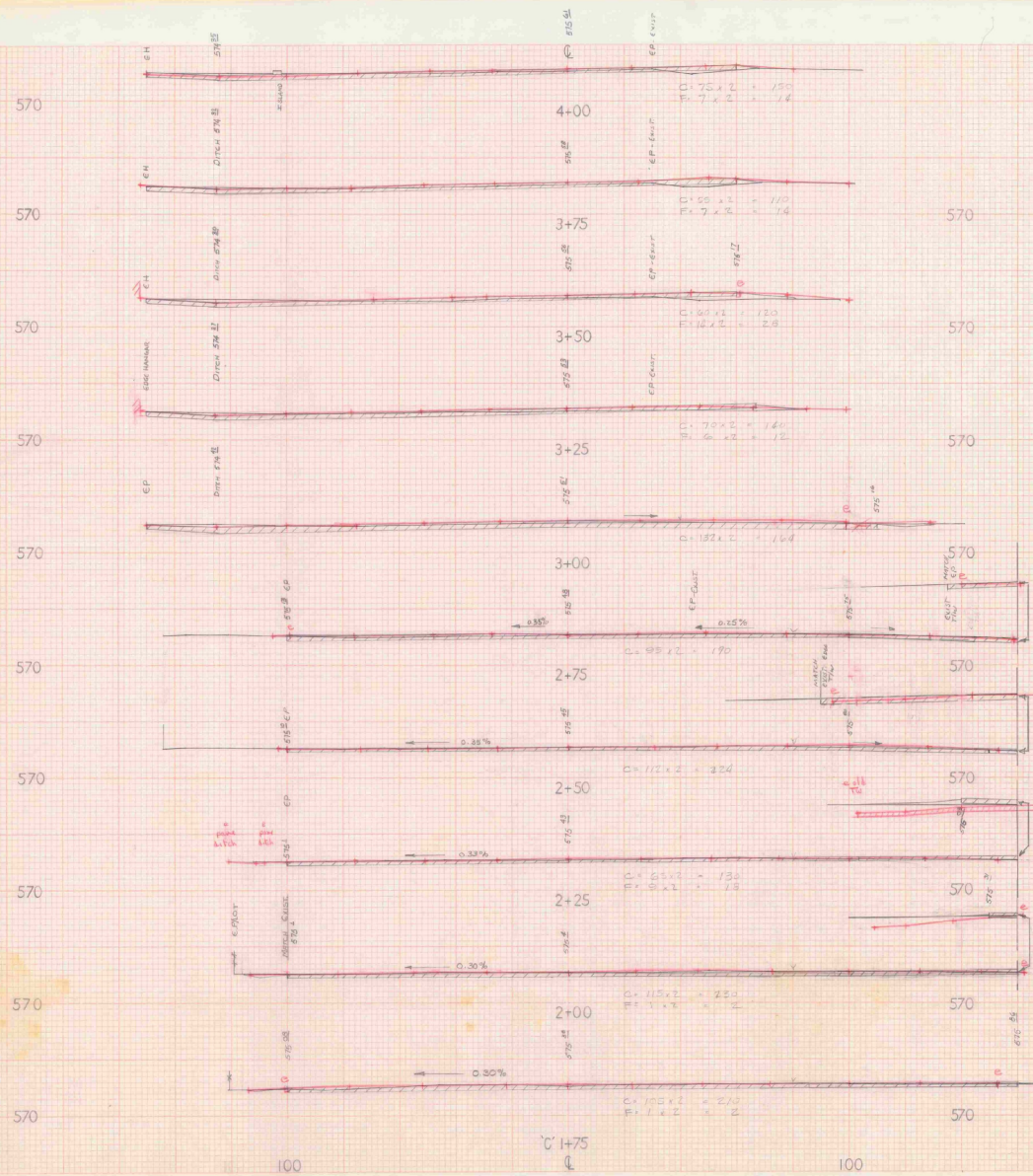
SPRINGFIELD STATE
AIRPORT
"B" LINE CROSS SECTIONS

ADAP 5-50-0018-C4

SHEET 14 OF 16

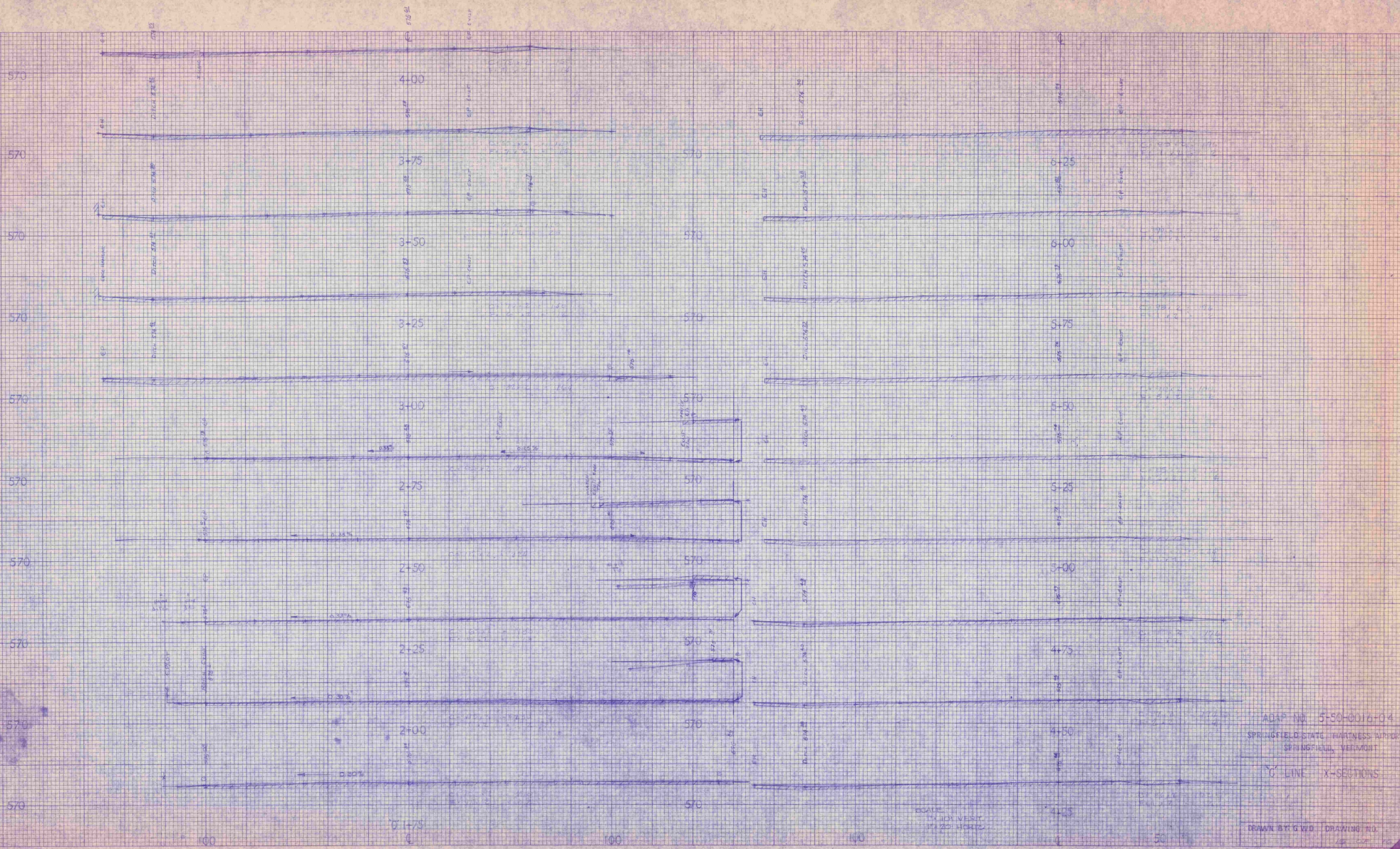
SCALE: 1" = 10' VERT.
1" = 20' HORIZ.





SCALE:
1" = 10' VERT.
1" = 20' HORIZ.

ADAP NO. 5-50-0016-04
SPRINGFIELD STATE MARTNESS AIRPORT
SPRINGFIELD, VERMONT
"C" LINE "X" SECTIONS
DRAWN BY: GWD DRAWING NO. 15 OF 16



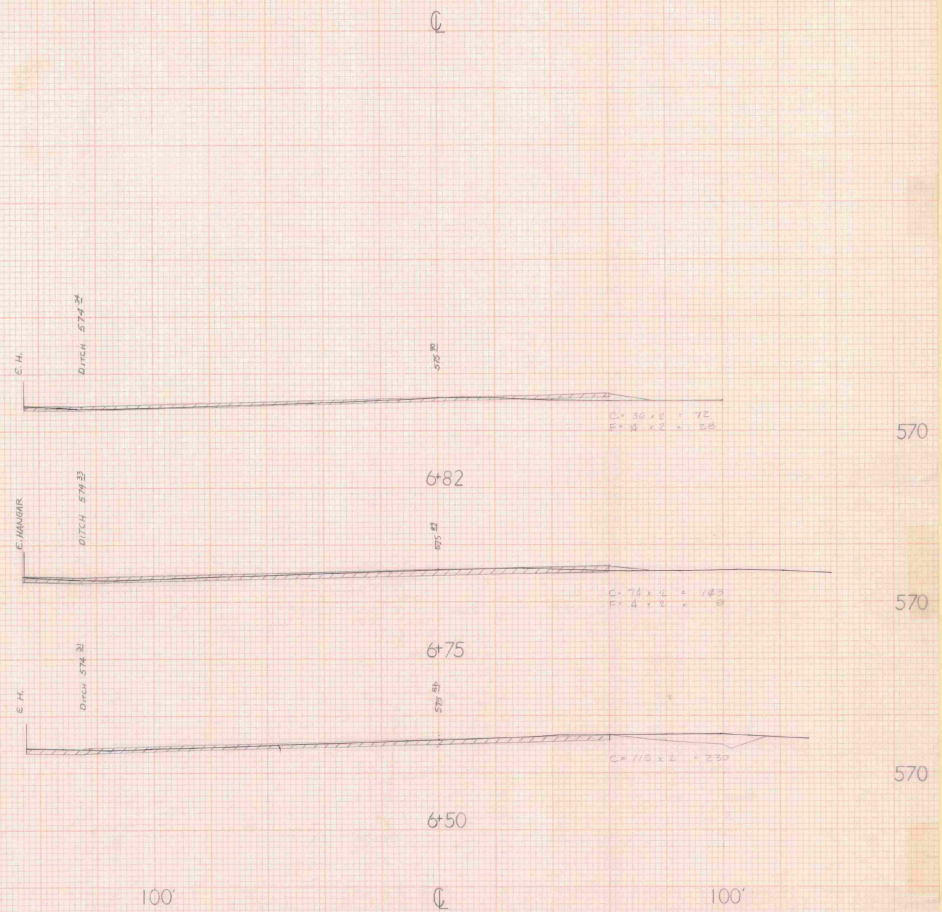
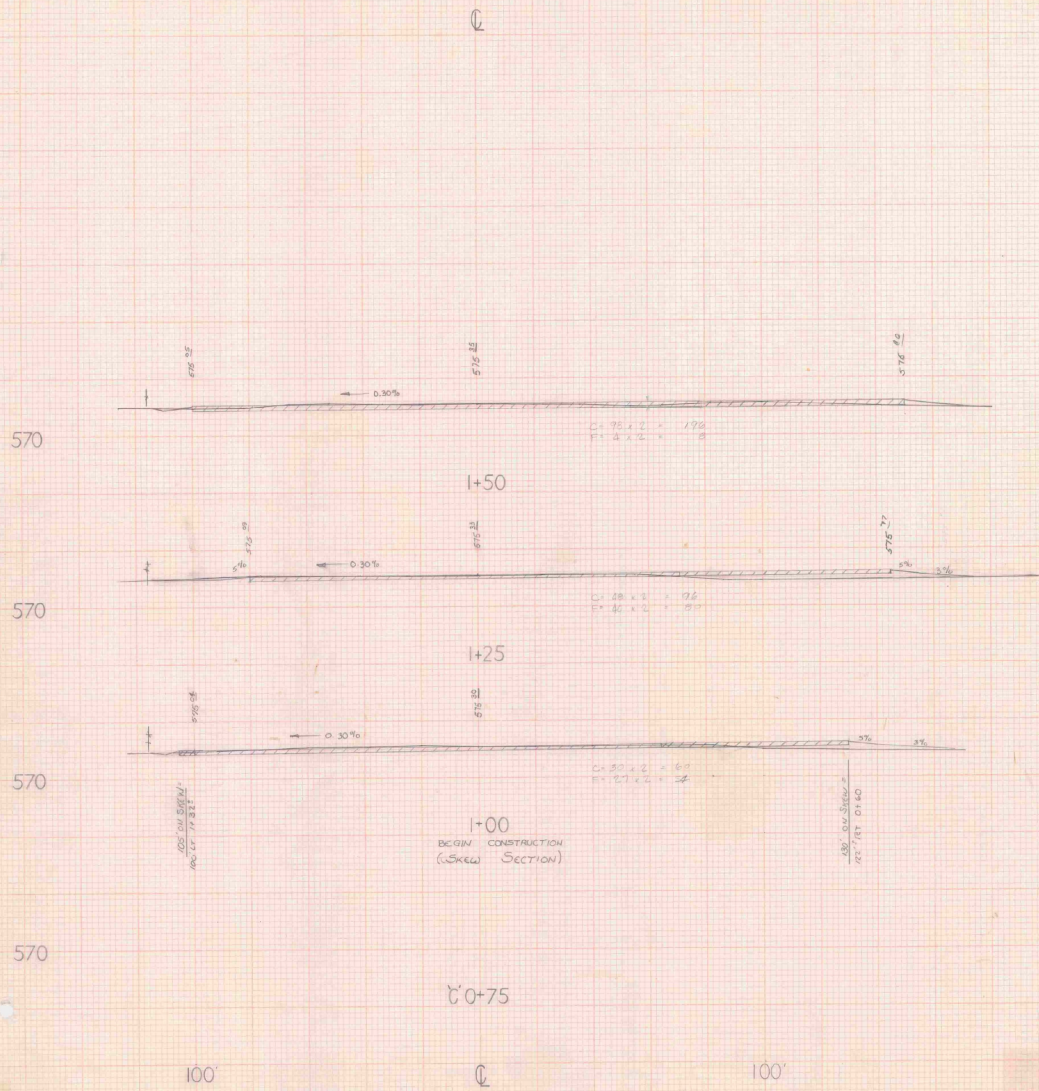
ADAP. NO. 5-50-0016-04

SPRINGFIELD STATE HARTNESS AVENUE
SPRINGFIELD, VERMONT

PLAN X-SECTIONS

DRAWN BY: G.W.D. DRAWING NO.:
100 50

SCALE
1" = 20' HORIZ.
1" = 20' VERT.



SCALE:
1" = 10' VERT.
1" = 20' HORIZ.

SPRINGFIELD STATE AIRPORT
SPRINGFIELD, VERMONT
C LINE CROSS SECTIONS

DRAWING NO. 16 OF 16
DRAWN BY: GWD

570

570

570

570

570

570

570

Q

Q

+50

+25

+00

SECTION
CONSTRUCTION
(GREEN SECTION)

+0+75

+10+80

Q

+82

+75

+50

Q

SPRINGFIELD STATE AIRPORT
SPRINGFIELD, VERMONT
GRADE CROSS SECTIONS

DRAWING NO. 74-100-70
DATE: 10-1-70

SPRINGFIELD STATE
TERMINAL AREA IMPROV.
★ 5-50-0016-04
1981

**VERMONT AGENCY OF TRANSPORTATION
PLANNING DIVISION**