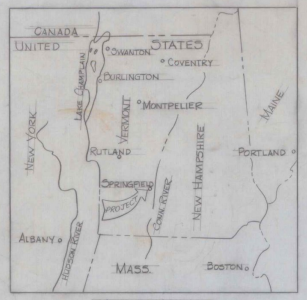
SPRINGFIELD STATE AIRPORT

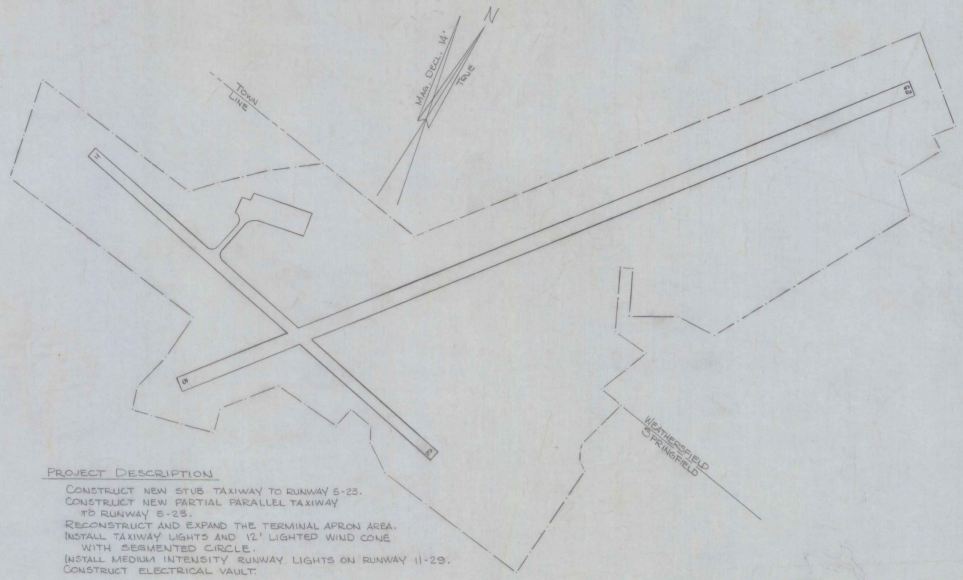
SPRINGFIELD, VERMONT

TERMINAL AREA IMPROVEMENTS

ADAP NO. 5-50-0016-04

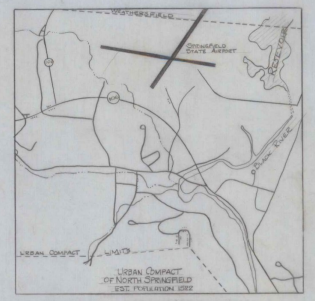


VICINITY MAP



GENERAL PLAN

SCALE: 1" = 200'



LOCATION MAP

PROJECT DESCRIPTION

CONSTRUCT NEW STUB 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 12' LIGHTED WIND CONE WITH SEGMENTED CIRCLE.
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; T-A STD. D-1; T-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 P. Barnes Resident Engineer

Date 6/09/81

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED A. J. Gage 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

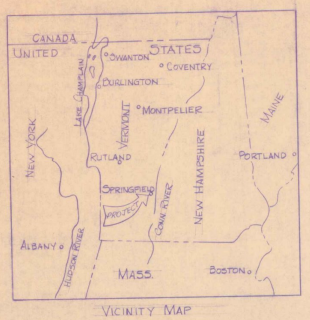
SPRINGFIELD STATE AIRPORT

SPRINGFIELD, VERMONT

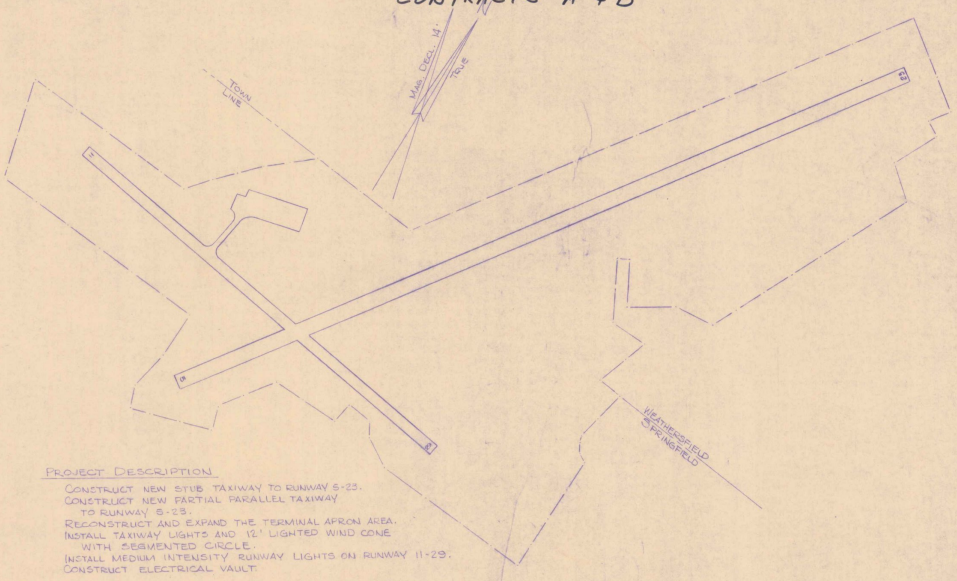
TERMINAL AREA IMPROVEMENTS

ADAP NO. 5-50-0016-04

CONTRACTS A & B

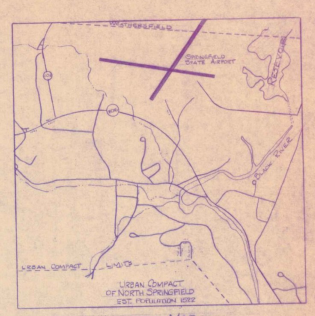


VICINITY MAP



GENERAL PLAN

SCALE: 1" = 200'



LOCATION MAP

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CONTRACT "A"

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

NAME _____ DATE 2/9/82

CONTRACT "B"

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

NAME James A. Dicke DATE 2/9/82

AS BUILT PLANS

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

By Howard R. Burns Resident Engineer

Date 8/19/81

REVISIONS	
DESCRIPTION	DATE

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED _____ DATE 9-21-78
CHIEF OF ENGINEERING AND CONSTRUCTION

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

APPROVED _____ DATE _____
CHIEF ENGINEERING BRANCH
AIRPORTS DIVISION

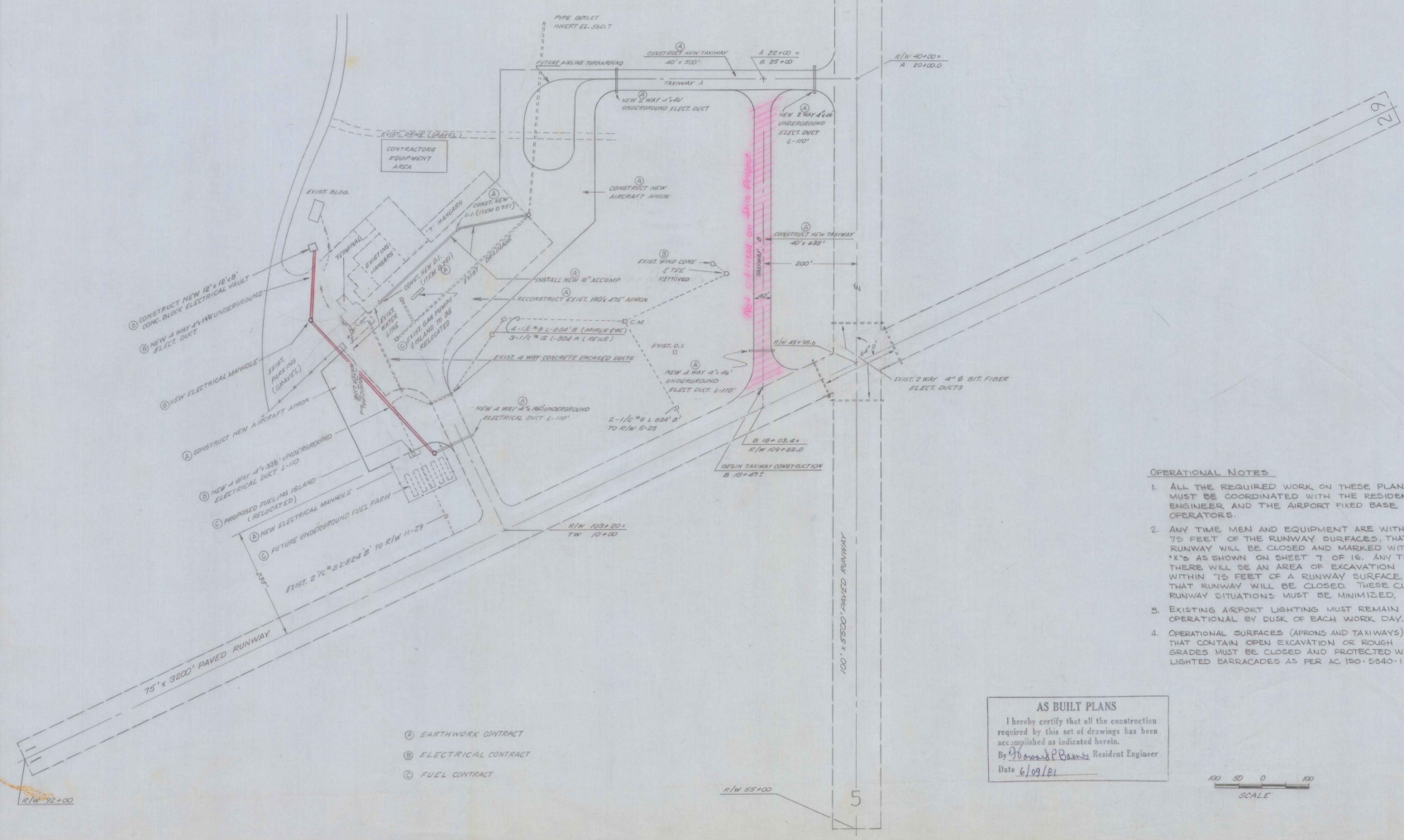
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SHEET 1 OF 16 SHEETS

D-8 OCT. 1, 1981

ADAP 5-50-0016-03
AIR 46-4503
1980

ADAP 5-50-0016-04
AIR 21-6904
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 75 FEET OF THE RUNWAY SURFACES, THAT RUNWAY WILL BE CLOSED AND MARKED WITH 'X'S AS SHOWN ON SHEET 7 OF 16. ANY TIME THERE WILL BE AN AREA OF EXCAVATION WITHIN 75 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 DUSK OF EACH WORK DAY.
4. OPERATIONAL SURFACES (APRONS AND TAXIWAYS) THAT CONTAIN OPEN EXCAVATION OR ROUGH GRADES MUST BE CLOSED AND PROTECTED WITH LIGHTED BARRACADES AS PER AC 150-5340-1D.

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 6/09/81

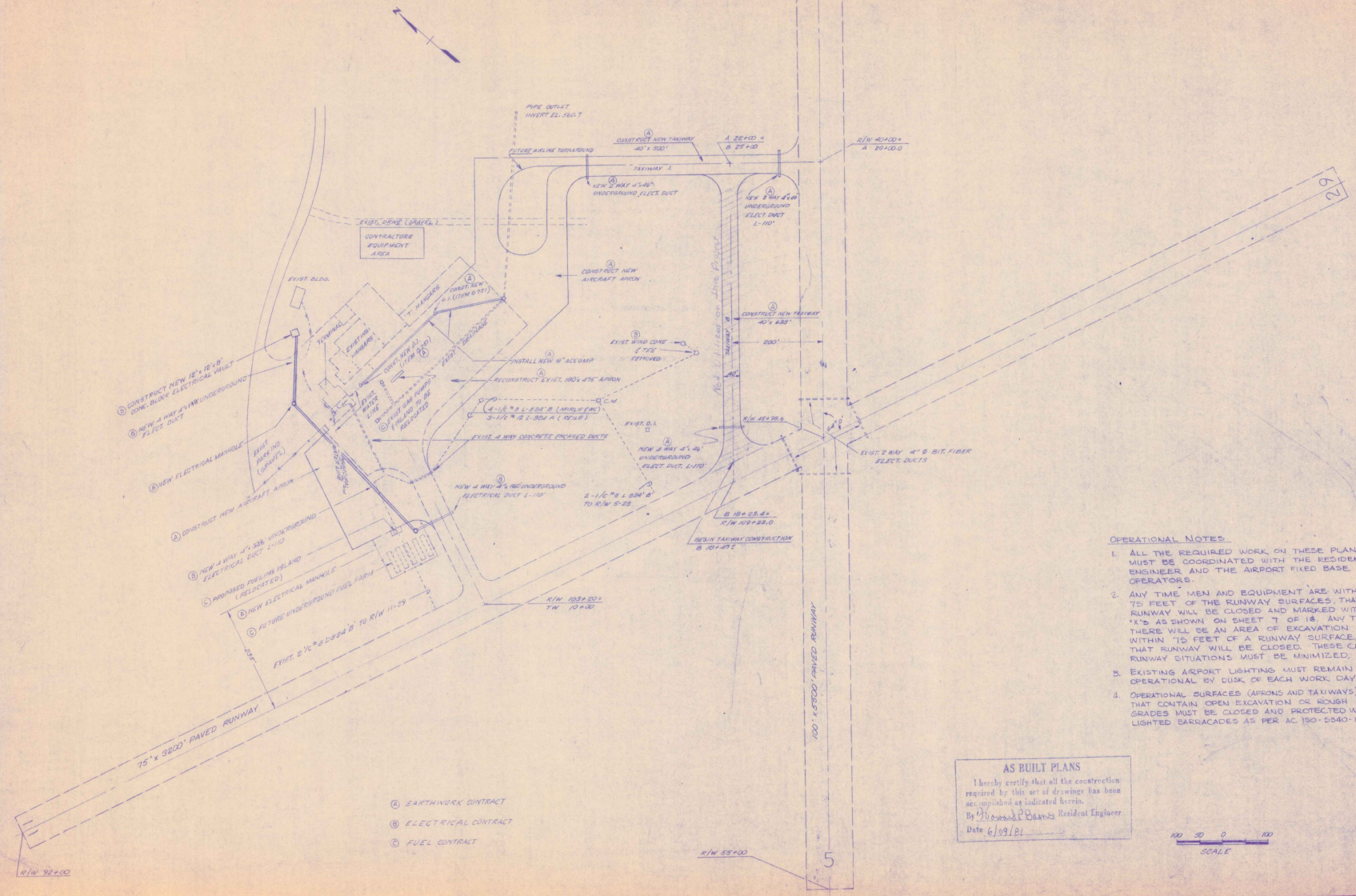
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DRAWN BY M.G.R. DATE _____
TRACED BY _____ DATE _____

PROJECT LAYOUT

PROJ. ADAP NO 5-30-0016-04

SHEET 2 OF 16



Ⓐ EARTHWORK CONTRACT

Ⓑ ELECTRICAL CONTRACT

Ⓒ FUEL CONTRACT

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 75 FEET OF THE RUNWAY SURFACES, THAT RUNWAY WILL BE CLOSED AND MARKED WITH 'X'S AS SHOWN ON SHEET 7 OF 16. ANY TIME THERE WILL BE AN AREA OF EXCAVATION WITHIN 75 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 DUSK OF EACH WORK DAY.
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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 Donald P. Davis Resident Engineer

Date 6/09/81

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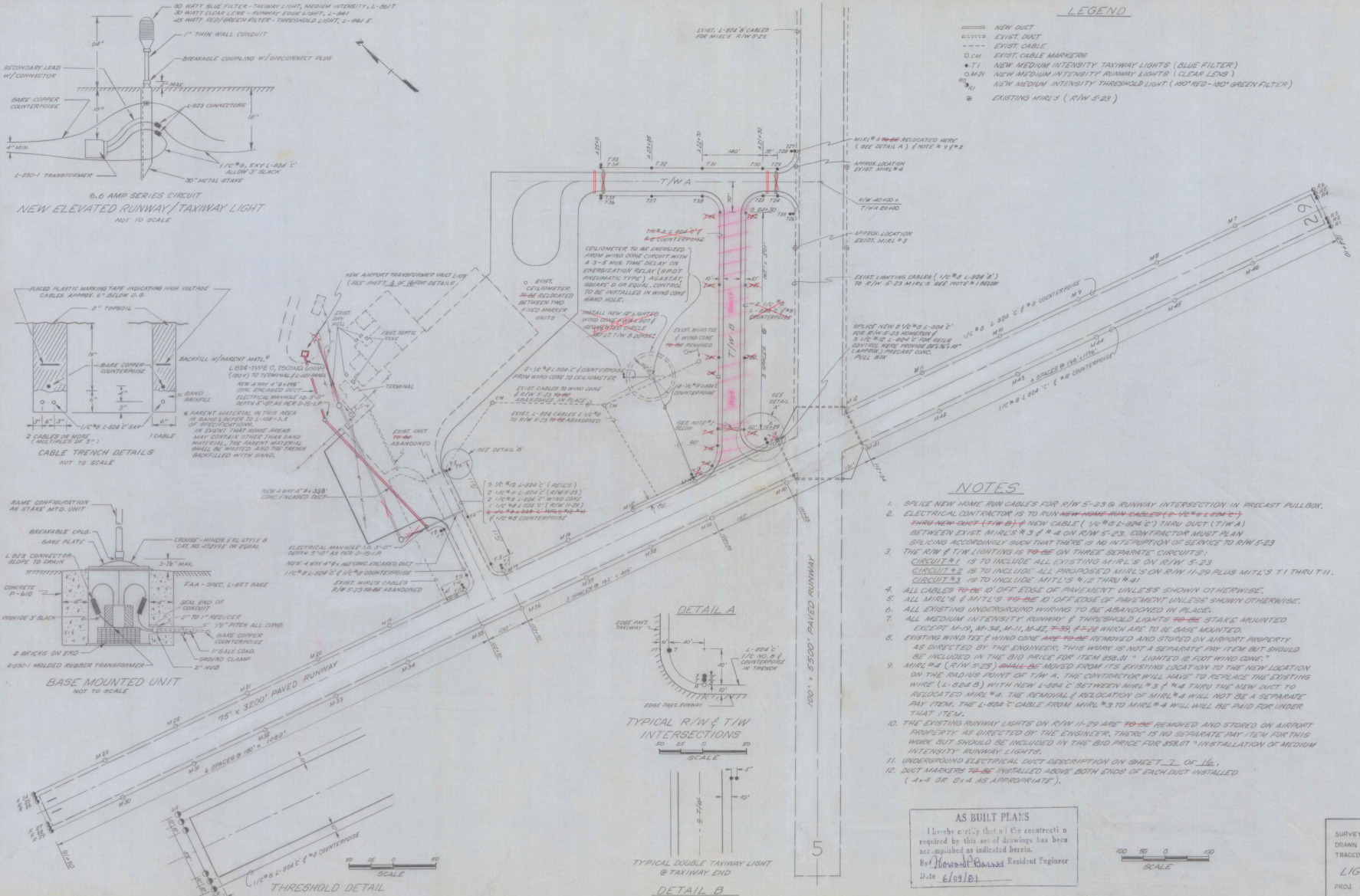
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DRAWN BY M.G.R. DATE _____
TRACED BY _____ DATE _____

PROJECT LAYOUT

PROJ. ADAP. NO 3-50-0016-04

SHEET 2 OF 16

D-8



NOTES

1. SPLICE NEW HOME RUN CABLE'S FOR R/W 5-23 @ RUNWAY INTERSECTION IN PRECAST PULLBOX.
2. ELECTRICAL CONTRACTOR IS TO RUN ~~NEW HOME RUN CABLES (1-1/C #8 & 1-L-824 C)~~ THRU NEW DUCT (T/W B) & NEW CABLE (1/C #8 L-824 'C') THRU DUCT (T/W A) BETWEEN EXIST. MIRL'S # 3 & # 4 ON R/W 5-23. CONTRACTOR MUST PLAN SPLICING ACCORDINGLY SUCH THAT THERE IS NO INTERRUPTION OF SERVICE TO R/W 5-23
3. THE R/W & T/W LIGHTING IS ~~TO BE~~ ON THREE SEPARATE CIRCUITS:
   CIRCUIT # 1 IS TO INCLUDE ALL EXISTING MIRL'S ON R/W 5-23
   CIRCUIT # 2 IS TO INCLUDE ALL PROPOSED MIRL'S ON R/W 11-29 PLUS MITL'S T1 THRU T11.
   CIRCUIT # 3 IS TO INCLUDE MITL'S # 12 THRU # 41
4. ALL CABLES ~~TO BE~~ 10' OFF EDGE OF PAVEMENT UNLESS SHOWN OTHERWISE.
5. ALL MIRL'S & MITL'S ~~TO BE~~ 10' OFF EDGE OF PAVEMENT UNLESS SHOWN OTHERWISE.
6. ALL EXISTING UNDERGROUND WIRING TO BE ABANDONED IN PLACE.
7. ALL MEDIUM INTENSITY RUNWAY & THRESHOLD LIGHTS ~~TO BE~~ STAKE MOUNTED EXCEPT M-10, M-34, M-11, M-42, ~~T-39~~, ~~& T-28~~ WHICH ARE TO BE BASE MOUNTED.
8. EXISTING WIND TEE & WIND CONE ~~ARE TO BE~~ REMOVED AND STORED ON AIRPORT PROPERTY AS DIRECTED BY THE ENGINEER. THIS WORK IS NOT A SEPARATE PAY ITEM BUT SHOULD BE INCLUDED IN THE BID PRICE FOR ITEM 858.01 " LIGHTED 12 FOOT WIND CONE."
9. MIRL # 4 (R/W 5-23) ~~SHALL BE~~ MOVED FROM ITS EXISTING LOCATION TO THE NEW LOCATION ON THE RADIUS POINT OF T/W A. THE CONTRACTOR WILL HAVE TO REPLACE THE EXISTING WIRE (L-824 B) WITH NEW L-824 C BETWEEN MIRL # 3 & # 4 THRU THE NEW DUCT TO RELOCATED MIRL # 4. THE REMOVAL & RELOCATION OF MIRL # 4 WILL NOT BE A SEPARATE PAY ITEM. THE L-824 'C' CABLE FROM MIRL # 3 TO MIRL # 4 WILL BE PAID FOR UNDER THAT ITEM.
10. THE EXISTING RUNWAY LIGHTS ON R/W 11-29 ARE ~~TO BE~~ REMOVED AND STORED ON AIRPORT PROPERTY AS DIRECTED BY THE ENGINEER. THERE IS NO SEPARATE PAY ITEM FOR THIS WORK BUT SHOULD BE INCLUDED IN THE BID PRICE FOR 858.01 " INSTALLATION OF MEDIUM INTENSITY" RUNWAY LIGHTS.
11. UNDERGROUND ELECTRICAL DUCT DESCRIPTION ON SHEET 7 OF 16.
12. DUCT MARKERS ~~TO BE~~ INSTALLED ABOVE BOTH ENDS OF EACH DUCT INSTALLED (1x4 OR 2x4 AS APPROPRIATE).

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. Bowers Resident Engineer

Date 6/09/81

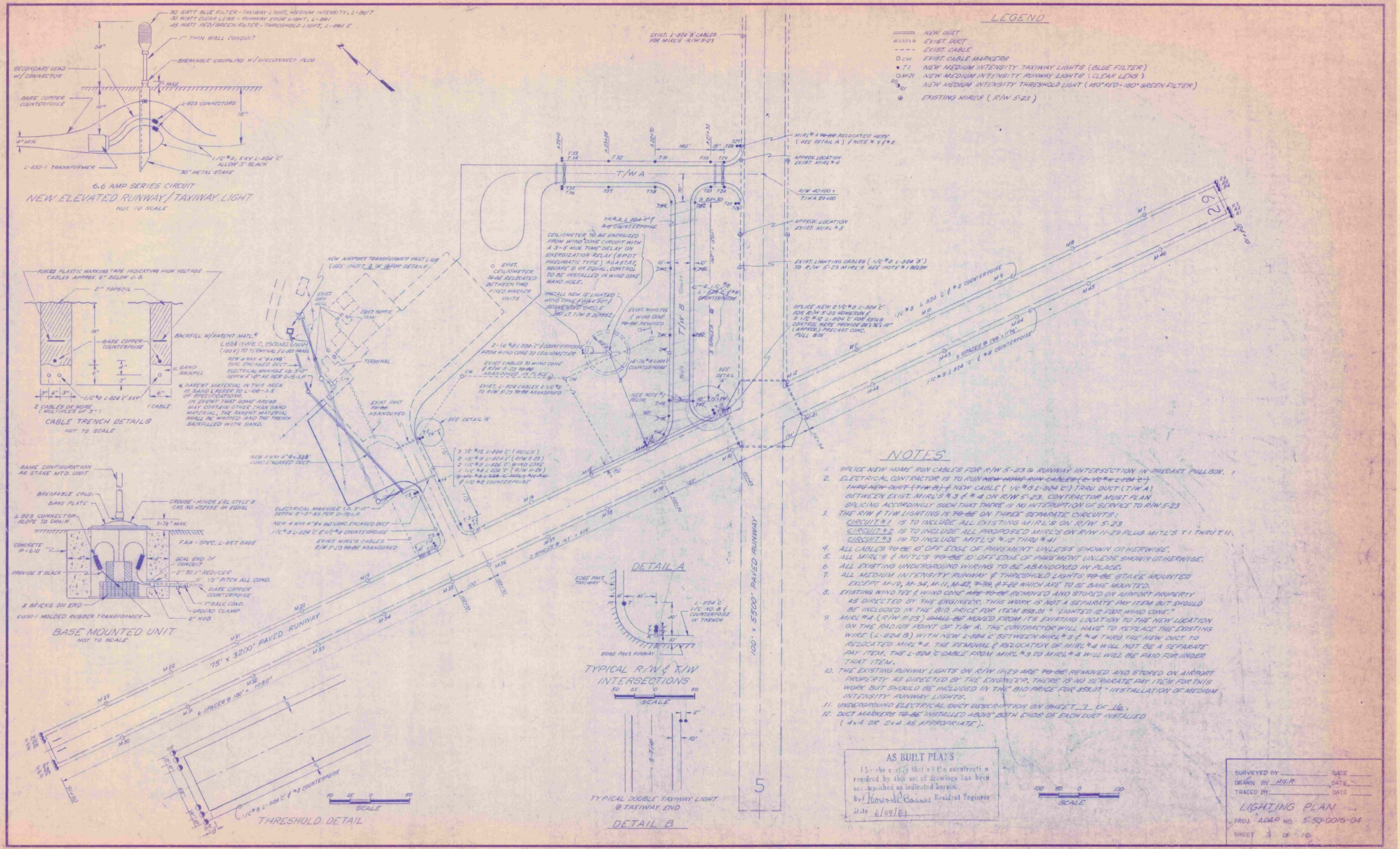
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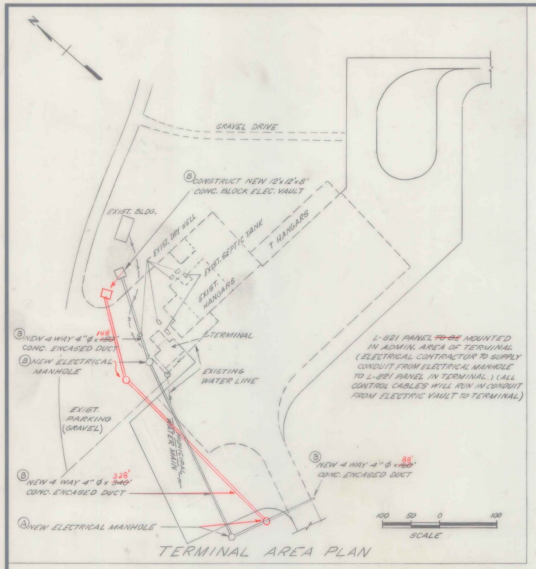
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LIGHTING PLAN

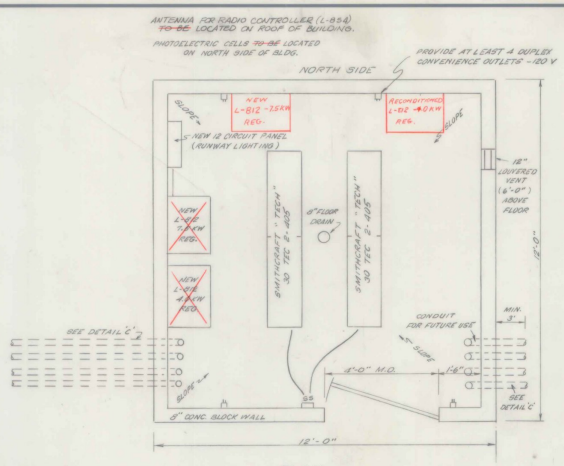
PROJ. ADAP NO. 5-50-0016-04

SHEET 5 OF 16

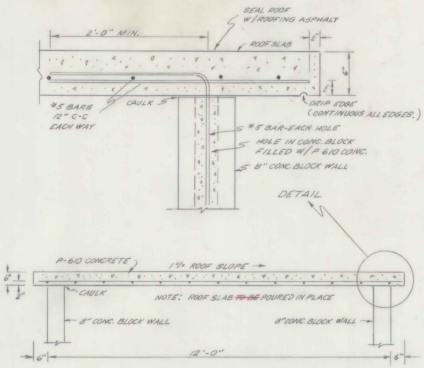

30 WATT BLUE FILTER - TAXIWAY LIGHT, MEDIUM INTENSITY, L-861T
30 WATT CLEAR LENS - RUNWAY EDGE LIGHT, L-861
45 WATT RED/GREEN FILTER - THRESHOLD LIGHT, L-861 E
1" THIN WALL CONDUIT
BREAKABLE COUPLING W/ DISCONNECT PLUG
SECONDARY LEAD W/ CONNECTOR
BARE COPPER COUNTERPOISE
L-823 CONNECTORS
1 I/C #8, 5KV L-824 'C' ALLOW 3' SLACK
L-830-1 TRANSFORMER
30" METAL STAKE
6.6 AMP SERIES CIRCUIT
NEW ELEVATED RUNWAY / TAXIWAY LIGHT
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 (180° RED - 180° GREEN FILTER)
EXISTING MIRL'S (R/W 5-23)
EXIST. L-824 'B' CABLES FOR MIRL'S R/W 5-23
T/W A
T/W B
RUNWAY 5
RUNWAY 29
100' x 5500' PAVED RUNWAY
75' x 3200' PAVED RUNWAY
NEW AIRPORT TRANSFORMER VAULT (SEE SHEET 8 OF 16 FOR DETAILS)
CELIOMETER TO BE ENERGIZED FROM WIND CONE CIRCUIT WITH A 3-5 MIN. TIME DELAY ON ENERGIZATION RELAY (SPDT, PNEUMATIC TYPE) AGASTAT, SQUARE D OR EQUAL, CONTROL TO BE INSTALLED IN WIND CONE HAND HOLE.
INSTALL NEW 3' LIGHTED WIND CONE (L-806 SST) RECESSED CIRCLE 30 LT. T/W B 20+52
EXIST. WIND TEE & WIND CONE TO BE REMOVED
EXIST. CELIOMETER TO BE RELOCATED BETWEEN TWO EXIST. AMALGOR UNITS
EXIST. DUCT TO BE ABANDONED
NEW 4 WAY 4'-9"x 4'-9" CONC. ENCASED DUCT
ELECTRICAL MANHOLE I.D. 5'-0" DEPTH 5'-10" AS PER D-115-LP
EXIST. MIRL'S CABLES R/W 5-23 TO BE ABANDONED
EXIST. CABLES TO WIND CONE & FROM 5-23 TO BE ABANDONED IN PLACE
EXIST. L-824 CABLES & I/C #8 TO R/W 5-23 TO BE ABANDONED
SPLICE NEW 2 I/C #8 L-824 'C' FOR R/W 5-23 ABMERON & 3 I/C #8 L-824 'C' FOR REILS CONTROL HERE PROVIDE 24"x36"x18" (APPROX.) PRECAST CONC. PULL BOX
MIRL # 4 TO BE RELOCATED HERE (SEE DETAIL A) & NOTE # 9 & # 2
APPROX. LOCATION EXIST. MIRL # 4
APPROX. LOCATION EXIST. MIRL # 3
EXIST. LIGHTING CABLES (I/C #8 L-824 'B') TO R/W 5-23 MIRL'S SEE NOTE # 1 BELOW
R/W 40-100 = T/W A 29-100
PLACED PLASTIC MARKING TAPE INDICATING HIGH VOLTAGE CABLES APPROX. 6" BELOW G.S.
2" TOPSOIL
BACKFILL W/ PARENT MATL.*
BARE COPPER COUNTERPOISE
SAND BACKFILL
1 I/C #8 L-824 'C' 5KV
2 CABLES OR MORE (MULTIPLES OF 3")
1 CABLE
CABLE TRENCH DETAILS
NOT TO SCALE
* PARENT MATERIAL IN THIS AREA IS SAND (REFER TO L-108-3.5 OF SPECIFICATIONS). IN EVENT THAT SOME AREAS MAY CONTAIN OTHER THAN SAND MATERIAL, THE PARENT MATERIAL SHALL BE WASTED AND THE TRENCH BACKFILLED WITH SAND.
SAME CONFIGURATION AS STAKE MTD. UNIT
BREAKABLE CPLG.
BASE PLATE
CROUSE - HINDS EAL STYLE B CAT. NO. MSP75E OR EQUAL
L-823 CONNECTOR SLOPE TO CHAIN
3-½" MAX.
CONCRETE P=610
FAA - SPEC. L-867 BASE
SEAL END OF CONDUIT
PROVIDE 3' SLACK
2" TO 1" REDUCER
½" PITCH ALL COND.
BARE COPPER COUNTERPOISE
11" BALK COND.
GROUND CLAMP
2 BRICKS ON END
2" HUB
EVS30-1 MOLDED RUBBER TRANSFORMER
BASE MOUNTED UNIT
NOT TO SCALE
DETAIL A
EDGE PAVT. TAXIWAY
EDGE PAVT. RUNWAY
L-824 'C' I/C NO. 8 IN COUNTERPOISE IN TRENCH
TYPICAL R/W & T/W INTERSECTIONS
50 25 0 50
SCALE
TYPICAL DOUBLE TAXIWAY LIGHT @ TAXIWAY END
DETAIL B
THRESHOLD DETAIL
NOTES
1. SPLICE NEW HOME RUN CABLES FOR R/W 5-23 @ RUNWAY INTERSECTION IN PRECAST PULL BOX.
2. ELECTRICAL CONTRACTOR IS TO RUN NEW HOME RUN CABLES (I/C #8 & L-824 'C') THRU NEW DUCT (T/W B) & NEW CABLE (I/C #8 L-824 'C') THRU DUCT (T/W A) BETWEEN EXIST. MIRL'S # 3 & # 4 ON R/W 5-23. CONTRACTOR MUST PLAN SPLICING ACCORDINGLY SUCH THAT THERE IS NO INTERRUPTION OF SERVICE TO R/W 5-23
3. THE R/W & T/W LIGHTING IS TO BE ON THREE SEPARATE CIRCUITS:
CIRCUIT # 1 IS TO INCLUDE ALL EXISTING MIRL'S ON R/W 5-23
CIRCUIT # 2 IS TO INCLUDE ALL PROPOSED MIRL'S ON R/W 11-29 PLUS MITL'S T-1 THRU T-11.
CIRCUIT # 3 IS TO INCLUDE MITL'S # 12 THRU # 41
4. ALL CABLES TO BE 10' OFF EDGE OF PAVEMENT UNLESS SHOWN OTHERWISE.
5. ALL MIRL'S & MITL'S TO BE 10' OFF EDGE OF PAVEMENT UNLESS SHOWN OTHERWISE.
6. ALL EXISTING UNDERGROUND WIRING TO BE ABANDONED IN PLACE.
7. ALL MEDIUM INTENSITY RUNWAY & THRESHOLD LIGHTS TO BE STAKE MOUNTED EXCEPT M-19, M-34, M-11, M-42, T-39, & T-22 WHICH ARE TO BE BASE MOUNTED.
8. EXISTING WIND TEE & WIND CONE ARE TO BE REMOVED AND STORED ON AIRPORT PROPERTY AS DIRECTED BY THE ENGINEER. THIS WORK IS NOT A SEPARATE PAY ITEM BUT SHOULD BE INCLUDED IN THE BID PRICE FOR ITEM 858.01 " LIGHTED 12 FOOT WIND CONE."
9. MIRL # 4 (R/W 5-23) SHALL BE MOVED FROM ITS EXISTING LOCATION TO THE NEW LOCATION ON THE SOUTH SIDE FRONT OF T/W A. THE CONTRACTOR WILL HAVE TO REPLACE THE EXISTING WIRE (L-824 B) WITH NEW L-824 C BETWEEN MIRL # 3 & # 4 THRU THE NEW DUCT TO RELOCATED MIRL # 4. THE REMOVAL & RELOCATION OF MIRL # 4 WILL NOT BE A SEPARATE PAY ITEM. THE L-824 'C' CABLE FROM MIRL # 3 TO MIRL # 4 WILL WILL BE PAID FOR UNDER THAT ITEM.
10. THE EXISTING RUNWAY LIGHTS ON R/W 11-29 ARE TO BE REMOVED AND STORED ON AIRPORT PROPERTY AS DIRECTED BY THE ENGINEER. THERE IS NO SEPARATE PAY ITEM FOR THIS WORK BUT SHOULD BE INCLUDED IN THE BID PRICE FOR 858.01 " INSTALLATION OF MEDIUM INTENSITY RUNWAY LIGHTS."
11. UNDERSTANDING ELECTRICAL DUCT DESCRIPTION ON SHEET 7 OF 16.
12. DUCT MARKERS TO BE INSTALLED ABOVE BOTH ENDS OF EACH DUCT INSTALLED (4x4 OR 2x4 AS APPROPRIATE).
AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.
By Howard B. Barnes Resident Engineer
Date 6/09/82
100 50 0 100
SCALE
SURVEYED BY _____ DATE _____
DRAWN BY H.G.P. DATE _____
TRACED BY _____ DATE _____
LIGHTING PLAN
PROJ. ADAP NO. 5-50-0016-04
SHEET 3 OF 16
D-8
OCT 14 1981



TERMINAL AREA PLAN



PLAN

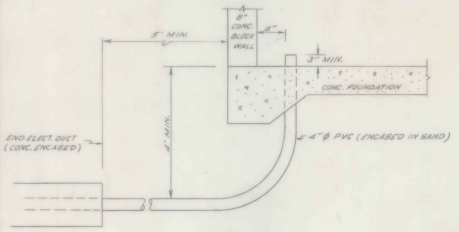


ROOF DETAIL

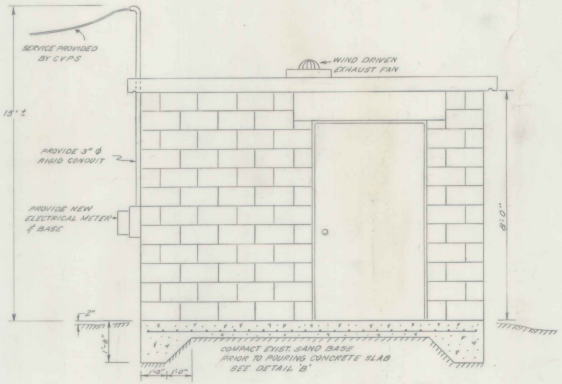
NOTES

REFER TO FAA L109 FOR SPECIFICATIONS

1. MOUNT CONTACTORS, 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 1¼ ROOF SLOPE (TO EAST)
6. FOUNDATION FLOOR TO SLOPE TO CENTER OF VAULT
7. REFER TO L-109-3.8 FOR PAINTING REQUIREMENTS
8. 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.
9. ALL CONTACTORS AND RELAYS TO BE ENCLOSED IN NEMA-4 ENCLOSURES.
10. VAULT BUILDING CONSTRUCTION AND MATERIALS ARE TO CONFORM TO THE ABOVE REFERENCED SPEC. ITEM L-109.
11. EXTERIOR CONCRETE BLOCK WALLS TO BE SEALED WITH TWO COATS OF APPROVED SEALER, THE FINAL COAT TO BE WHITE.



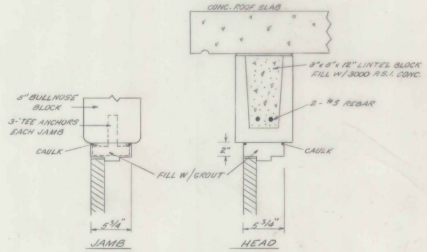
DETAIL C



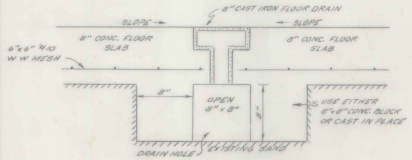
ELEVATION

NEW ELECTRIC VAULT

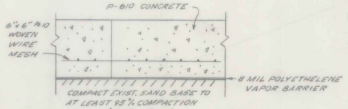
SCALE IN FT.



DOOR DETAILS FOR HOLLOW METAL FRAMES

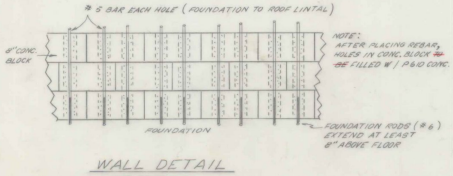


FLOOR DRAIN DETAIL



DETAIL 'B'

8" CONCRETE FLOOR SLAB TYPICAL



WALL DETAIL

NOT TO SCALE

AS BUILT PLANS

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

By Woodward Bolinger Resident Engineer

Date 6/09/02

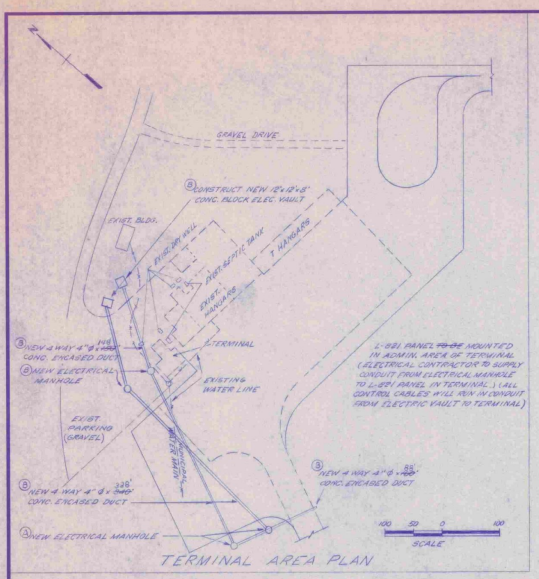
SURVEYED BY _____ DATE _____
DRAWN BY H.G.R. DATE _____
TRACED BY _____ DATE _____

AIRPORT ELECTRICAL VAULT

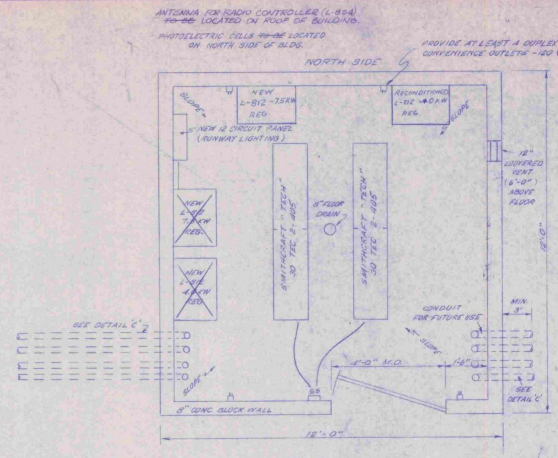
PROJ. A.D.A.P. NO. 3-50-0016-04

SHEET 4 OF 16

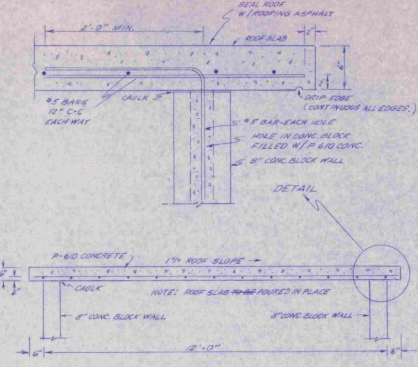
D-7



TERMINAL AREA PLAN



PLAN



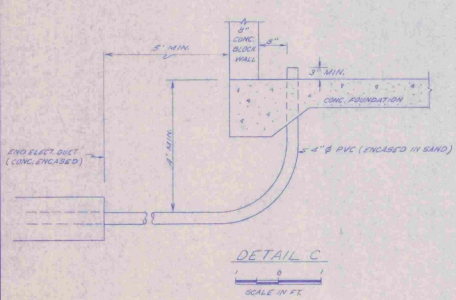
ROOF DETAIL

SCALE IN FT.

NOTES

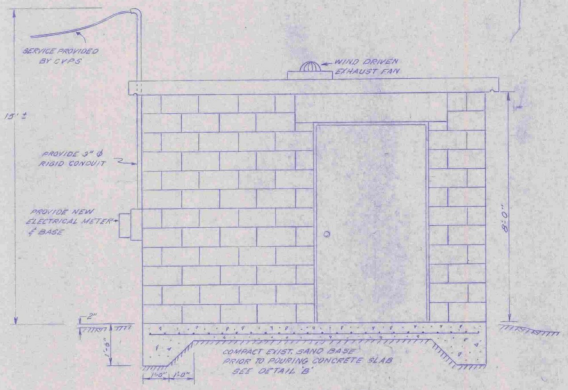
REFER TO FAA L109 FOR SPECIFICATIONS

1. MOUNT CONTACTORS, 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 ¼" ROOF SLOPE (TO EAST)
6. FOUNDATION FLOOR TO SLOPE TO CENTER OF VAULT.
7. REFER TO L-109-3.8 FOR PAINTING REQUIREMENTS
8. 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.
9. ALL CONTACTORS AND RELAYS TO BE ENCLOSED IN NEMA-4 ENCLOSURES.
10. VAULT BUILDING CONSTRUCTION AND MATERIALS ARE TO CONFORM TO THE ABOVE REFERENCED SPEC. ITEM L-109.
11. EXTERIOR CONCRETE BLOCK WALLS TO BE SEALED WITH TWO COATS OF APPROVED SEALER, THE FINAL COAT TO BE WHITE.



DETAIL C

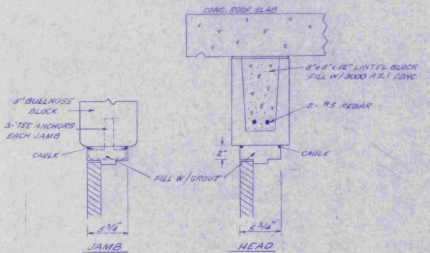
SCALE IN FT.



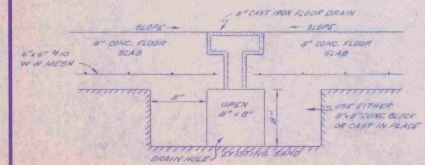
ELEVATION

NEW ELECTRIC VAULT

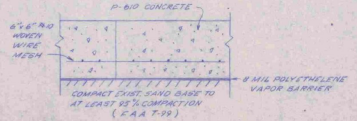
SCALE IN FT.



DOOR DETAILS FOR HOLLOW METAL FRAMES

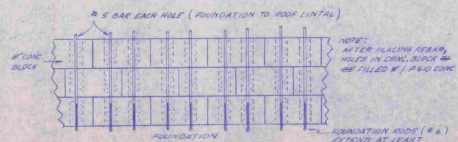


FLOOR DRAIN DETAIL



DETAIL 'B'

8" CONCRETE FLOOR SLAB TYPICAL



WALL DETAIL

* NOT TO SCALE

AS BUILT PLANS

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

By Howard Barnes Resident Engineer

Date 6/09/81

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

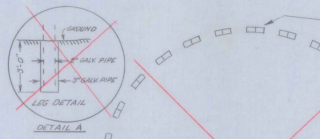
AIRPORT ELECTRICAL VAULT

PROJ. ADAP. NO. 3-50-0018-04

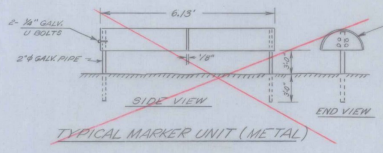
SHEET 2 OF 16

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 58280 AND 58610 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 INSTALLED IN NEW VAULT ~~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 150-5340-40 OF 10 AUGUST 1977.
9. ALL CONTACTORS AND RELAYS ~~TO BE~~ ENCLOSED IN NEMA-4 ENCLOSURES.
10. CONTRACTOR (S) SHALL PAINT A REFERENCE MARK ON THE NEW APRON FOR CEILIOMETER READING AT THE LOCATION INDICATED BY THE F.S.O.

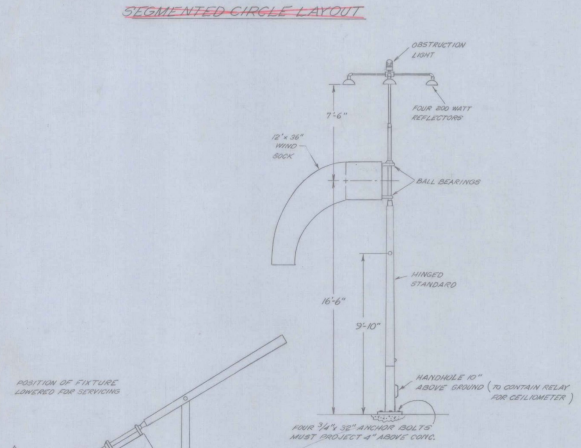


SEGMENTED CIRCLE LAYOUT

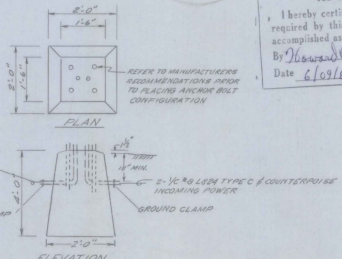


TYPICAL MARKER UNIT (METAL)

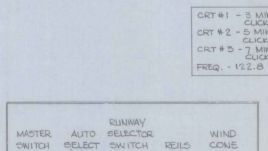
STANDARD 55 GAL. METAL DRUM CUT IN HALF AND WELDED END TO END AND PAINTED AS FOLLOWS:
1ST COAT WHITE UNDERCOAT
2ND COAT AVIATION ACRYLIC LACQUER. "SWIZER BROS." "FIRE ORANGE" # 202-14 OR EQUAL.
3RD COAT "SAFETY GRAY" OR EQUAL
PRIOR TO PAINTING, THE SURFACES SHALL BE THOROUGHLY CLEANED OF ALL RUST, SCALE, 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. 48310 A
OR EQUAL



BASE FOR WIND CONE



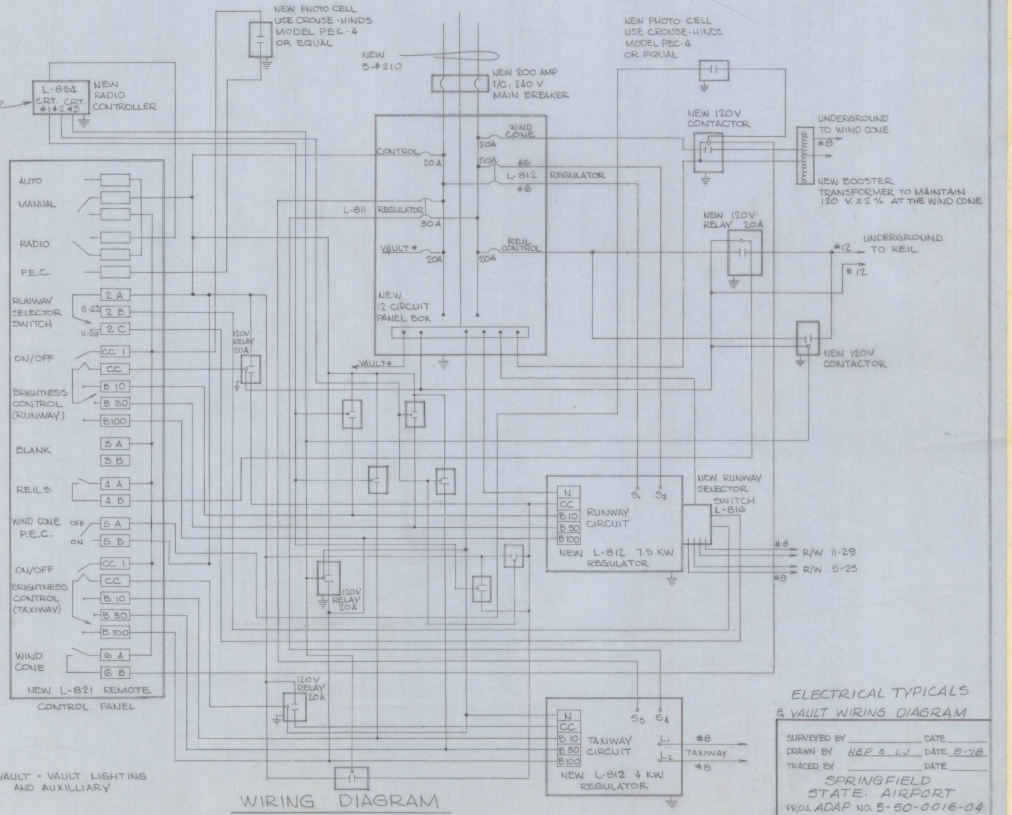
AIRPORT LIGHTING CONTROL PANEL

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. Bowen Resident Engineer

Date 6/09/81



*VAULT = VAULT LIGHTING AND AUXILLIARY

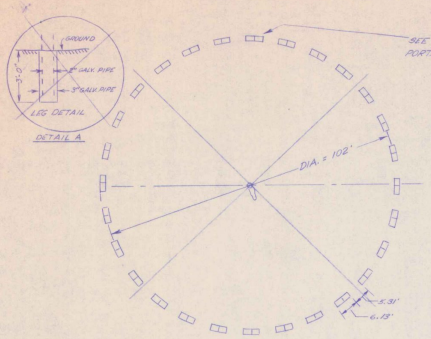
WIRING DIAGRAM

ELECTRICAL TYPICALS & VAULT WIRING DIAGRAM

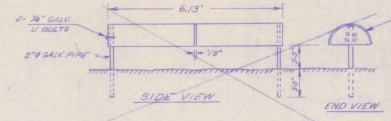
SURVEYED BY _____ DATE _____
DRAWN BY H&P & LJ DATE 8-78
TRACED BY _____ DATE _____

SPRINGFIELD STATE AIRPORT
PROJ. ADAP NO. 5-50-0016-04
SHEET 5 OF 16

D-8



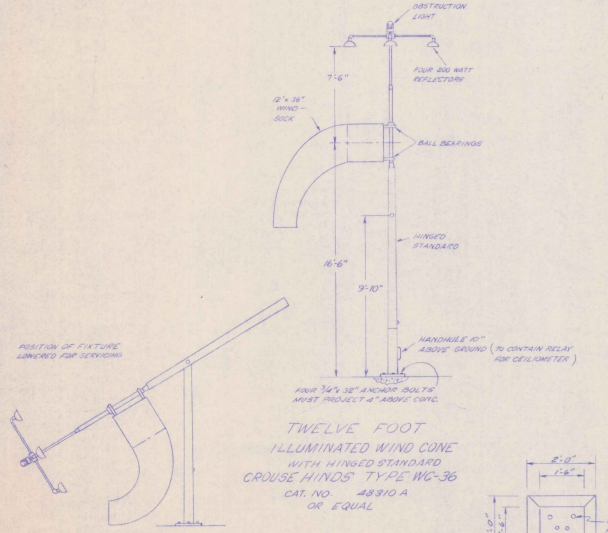
SEGMENTED CIRCLE LAYOUT



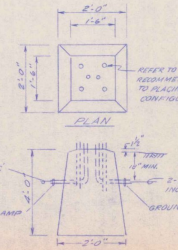
TYPICAL MARKER UNIT (METAL)

STANDARD 55 GAL. METAL DRUM CUT IN HALF AND WELDED END TO END AND PAINTED AS FOLLOWS:
1 ST COAT WHITE UNDERCOAT.
2 ND COAT AVIATION ACRYLIC LACQUER SWITZER BROS. "FIRE ORANGE" # 602-1A OR EQUAL.
3 RD COAT "CUTTER 601" OR EQUAL
PRIOR TO PAINTING, THE SURFACES SHALL BE THOROUGHLY CLEANED OF ALL RUST, SCALE, DIRT, OIL AND OTHER FOREIGN SUBSTANCES TO THE SATISFACTION OF THE ENGINEER.

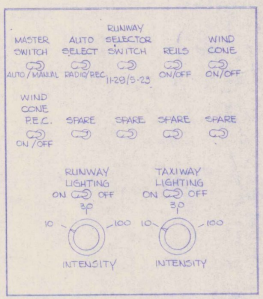
NOTES:
1. MOUNT NEW PHOTOCELL ON NORTH SIDE OF NEW ELECTRICAL VAULT.
2. NEW L-812 AND L-816 REGULATORS BY HEVI-DUTY ELECTRIC, MODELS 88280 AND 88610 OR APPROVED EQUAL.
3. L-821 (REMOTE CONTROL PANEL) ~~TO BE~~ MOUNTED IN EXISTING TERMINAL AT THE DIRECTION OF THE ENGINEER. ALL OTHER ELECTRICAL EQUIPMENT ~~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 INSTALLED IN NEW VAULT ~~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 150-5340-4D 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 CEILIOMETER READING AT THE LOCATION INDICATED BY THE F.S.O.



TWELVE FOOT ILLUMINATED WIND CONE WITH HINGED STANDARD CROUSE HINDS TYPE WG-36 CAT. NO. 48310 A OR EQUAL

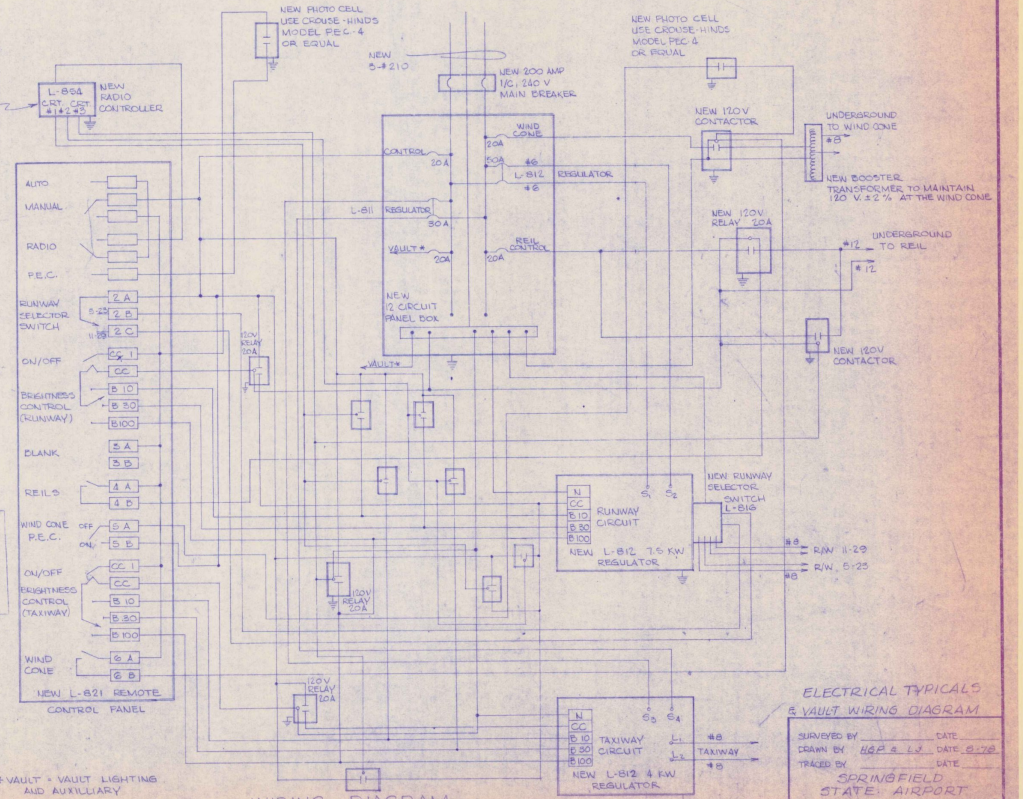


BASE FOR WIND CONE



AIRPORT LIGHTING CONTROL PANEL

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 6/09/87



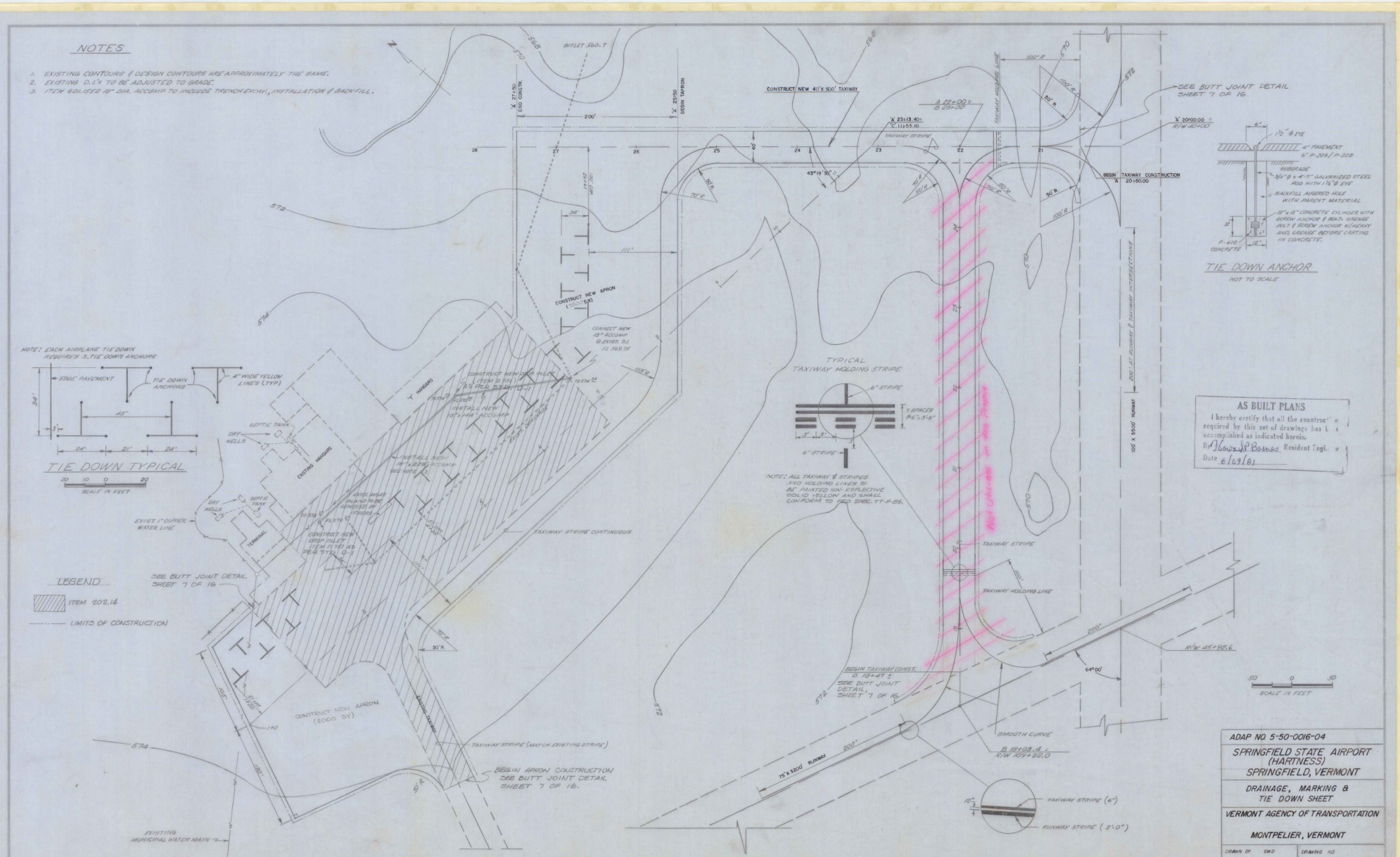
* VAULT = VAULT LIGHTING AND AUXILLIARY

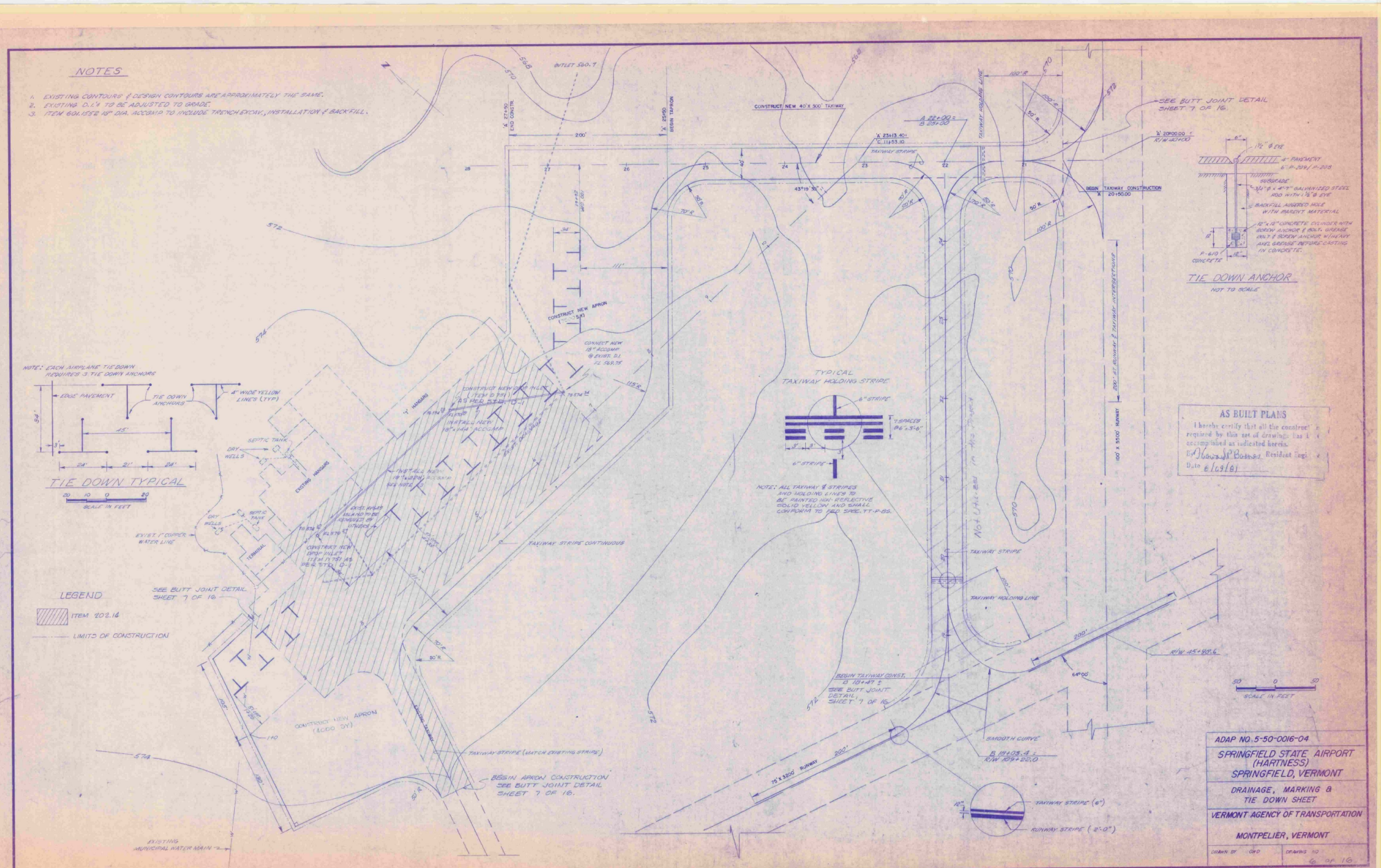
WIRING DIAGRAM

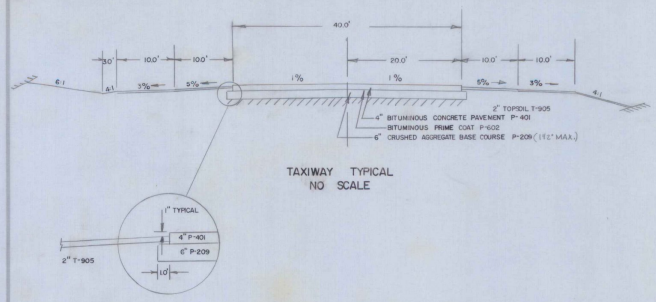
ELECTRICAL TYPICALS & VAULT WIRING DIAGRAM

SURVEYED BY _____ DATE _____
DRAWN BY HGP & LJ DATE 5-28
TRACED BY _____ DATE _____
SPRINGFIELD STATE AIRPORT
PROJ. ADAP. NO. 5-50-0016-04
SHEET 5 OF 16

B-8 OCT 14 1981

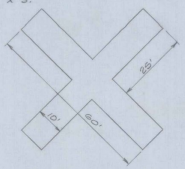

NOTES
1. EXISTING CONTOURS & DESIGN CONTOURS ARE APPROXIMATELY THE SAME.
2. EXISTING D.I.'s TO BE ADJUSTED TO GRADE.
3. ITEM 601.15SE 18" DIA. ACCAMP TO INCLUDE TRENCH EXCAV., INSTALLATION & BACKFILL.
OUTLET 580.7
CONSTRUCT NEW 40'X 500' TAXIWAY
TAXIWAY STRIPE
TAXIWAY HOLDING LINE
BEGIN TAXIWAY CONSTRUCTION
SEE BUTT JOINT DETAIL SHEET 7 OF 16.
CONSTRUCT NEW APRON
CONNECT NEW 18" ACCAMP @ EXIST. D.I. EL 569.91
CONSTRUCT NEW DROP INLET
INSTALL NEW 18"x 22FT ACCAMP
INSTALL NEW 18"x 14FT ACCAMP
TAXIWAY STRIPE CONTINUOUS
EXIST. 1" COPPER WATER LINE
EXISTING MUNICIPAL WATER MAIN
CONSTRUCT NEW APRON (4000 SY)
TAXIWAY STRIPE (MATCH EXISTING STRIPE)
BEGIN APRON CONSTRUCTION SEE BUTT JOINT DETAIL SHEET 7 OF 16.
BEGIN TAXIWAY CONST. SEE BUTT JOINT DETAIL, SHEET 7 OF 16.
SMOOTH CURVE
75'x 3200' RUNWAY
100'x 5500' RUNWAY
TAXIWAY STRIPE (6")
RUNWAY STRIPE (2'-0")
TIE DOWN TYPICAL
NOTE: EACH AIRPLANE TIE DOWN REQUIRES 3 TIE DOWN ANCHORS
EDGE PAVEMENT
TIE DOWN ANCHORS
4" WIDE YELLOW LINES (TYP)
SCALE IN FEET
TYPICAL TAXIWAY HOLDING STRIPE
6" STRIPE
NOTE: ALL TAXIWAY & STRIPES AND HOLDING LINES TO BE PAINTED NON-REFLECTIVE SOLID YELLOW AND SHALL CONFORM TO FED. SPEC. TT-P-85.
TIE DOWN ANCHOR
NOT TO SCALE
4" PAVEMENT
6" P-209 / P-208
SUBGRADE
BACKFILL AUGERED HOLE WITH PARENT MATERIAL
P-610 CONCRETE
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. Barnes Resident Engr.
Date 6/09/81
LEGEND
ITEM 202.14
LIMITS OF CONSTRUCTION
ADAP NO. 5-50-0016-04
SPRINGFIELD STATE AIRPORT (HARTNESS) SPRINGFIELD, VERMONT
DRAINAGE, MARKING & TIE DOWN SHEET
VERMONT AGENCY OF TRANSPORTATION
MONTPELIER, VERMONT
DRAWN BY GWD
DRAWING NO 6 OF 16


NOTES
1. EXISTING CONTOURS & DESIGN CONTOURS ARE APPROXIMATELY THE SAME.
2. EXISTING D.I.'s TO BE ADJUSTED TO GRADE.
3. ITEM 601.1552 18" DIA. ACCOMP. TO INCLUDE TRENCH EXCAV., INSTALLATION & BACKFILL.
CONSTRUCT NEW 40' X 500' TAXIWAY
CONSTRUCT NEW APRON (10,000 SY)
TAXIWAY STRIPE CONTINUOUS
TAXIWAY STRIPE (MATCH EXISTING STRIPE)
BEGIN APRON CONSTRUCTION SEE BUTT JOINT DETAIL SHEET 7 OF 16.
SEE BUTT JOINT DETAIL SHEET 7 OF 16.
BEGIN TAXIWAY CONSTRUCTION
TIE DOWN ANCHOR
NOT TO SCALE
TIE DOWN TYPICAL
SCALE IN FEET
TYPICAL TAXIWAY HOLDING STRIPE
NOTE: ALL TAXIWAY & STRIPES AND HOLDING LINES TO BE PAINTED NON-REFLECTIVE SOLID YELLOW AND SHALL CONFORM TO FED SPEC. TT-P-85.
LEGEND
ITEM 702.14
LIMITS OF CONSTRUCTION
AS BUILT PLANS
I hereby certify that all the construct required by this set of drawings has b accomplished as indicated hereon.
By Howard P. Burns Resident Engi
Date 6/19/81
ADAP NO. 5-50-0016-04
SPRINGFIELD STATE AIRPORT (HARTNESS)
SPRINGFIELD, VERMONT
DRAINAGE, MARKING & TIE DOWN SHEET
VERMONT AGENCY OF TRANSPORTATION
MONTPELIER, VERMONT
DRAWN BY GWD
DRAWING NO 6 OF 16
D-8

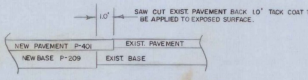


TAXIWAY TYPICAL
NO SCALE

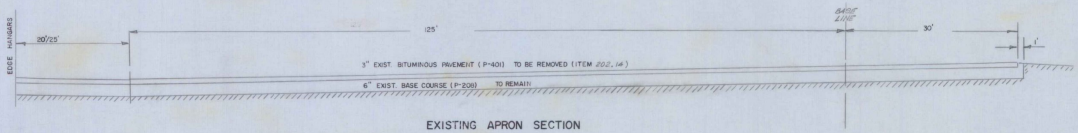
THE CONTRACTOR WILL BE RESPONSIBLE FOR PROPERLY PLACING AND ANCHORING THESE X's. THERE IS NO SEPARATE PAYMENT FOR THE X's.



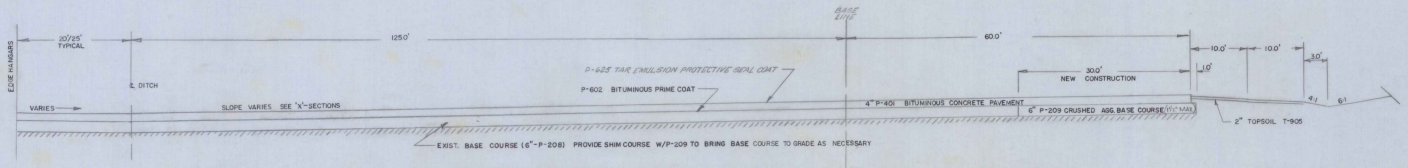
CLOSED RUNWAY MARKER
TWO REQUIRED (YELLOW)
SCALE: 1"=20'



PAVEMENT BUTT JOINT
NO SCALE



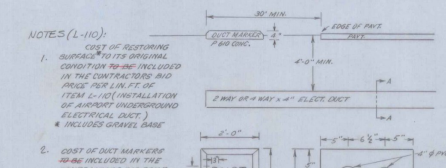
EXISTING APRON SECTION
NO SCALE



EXISTING APRON REHABILITION SECTION - TYPICAL
NO SCALE

NOTES (L-110):

1. COST OF RESTORING SURFACE* TO ITS ORIGINAL CONDITION ~~TO BE~~ INCLUDED IN THE CONTRACTORS BID PRICE PER L.IN.FT. OF ITEM L-101 (INSTALLATION OF AIRPORT UNDERGROUND ELECTRICAL DUCT.)
   * INCLUDES GRAVEL BASE
2. COST OF DUCT MARKERS ~~TO BE~~ INCLUDED IN THE CONTRACTORS BID PRICE PER L.IN. FT. 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) FED. SPEC. W-C-1094 (FAA L-110 TYPE E)
5. CABLE AND SNAKE MARKERS ARE REQUIRED PER FAA SPEC. L-854. SPLICES WILL NOT BE ACCEPTABLE EXCEPT WHEN CONNECTING EXISTING UNDERGROUND WIRE TO NEW WIRE.



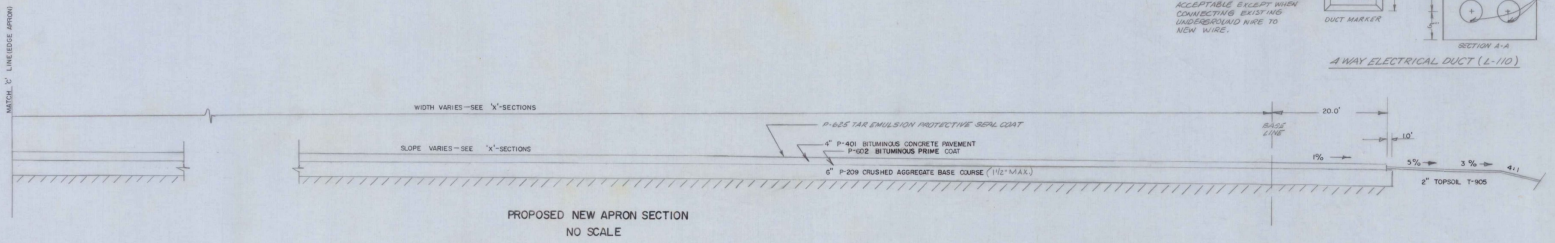
NOTES

1. COMPACT SUBGRADE AS PER FAA P-152 & T-611
2. TOPSOIL STRIPPED FROM NEW CONSTRUCTION TO BE STOCKPILED AND 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 15 DAYS (MIN.) AFTER COMPLETION OF ITEM P-401.
4. ITEM G-27 SEED, LIME & FERTILIZER

THE SEED MIXTURE SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

TYPE OF GRASS	% BY LB.
CREEPING RED FESCUE	40
ALTA FESCUE	10
KENTUCKY BLUE	20
RED TOP	10
PERENNIAL RYE	5
WHITE CLOVER	5
ALSIKE CLOVER	5
OTHER	5

5. ITEM P-625 TO BE EMULSION ONLY APPLIED BY DISTRIBUTOR IN TWO APPLICATIONS AS INDICATED IN SECTION 857.12 OF THE SPECIFICATIONS.



PROPOSED NEW APRON SECTION
NO SCALE

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. Bowen Resident Engineer
Date 6/19/81

ADAP NO. 5-50-0016-04

SPRINGFIELD STATE AIRPORT (HARTNESS)
SPRINGFIELD, VERMONT

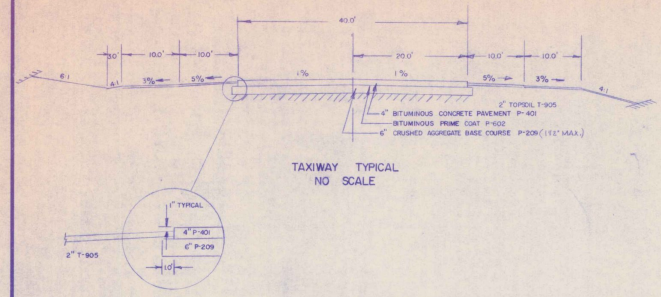
TYPICAL SECTIONS

VERMONT AGENCY OF TRANSPORTATION

MONTPELIER, VERMONT

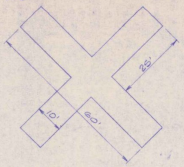
DRAWN BY GWD | DRAWING NO. 7 OF 16

D-8

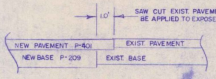


TAXIWAY TYPICAL
NO SCALE

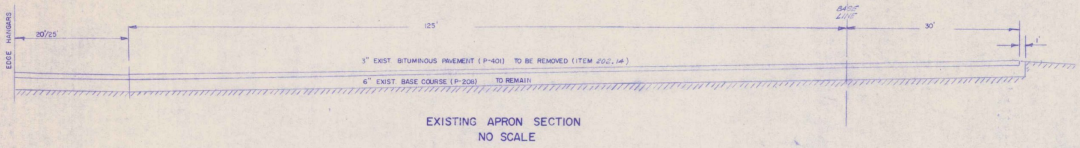
THE CONTRACTOR WILL BE RESPONSIBLE FOR PROPERLY PLACING AND ANCHORING THESE X's. THERE IS NO SEPARATE PAYMENT FOR THE X's.



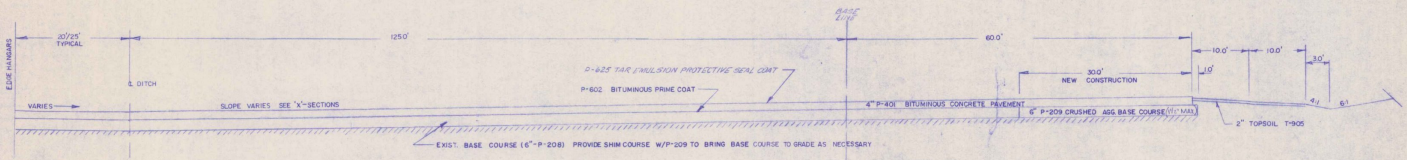
CLOSED RUNWAY MARKER
TWO REQUIRED (YELLOW)
SCALE: 1"=20'



PAVEMENT BUTT JOINT
NO SCALE



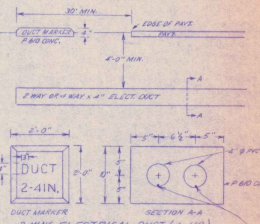
EXISTING APRON SECTION
NO SCALE



EXISTING APRON REHABILITION SECTION – TYPICAL
NO SCALE

NOTES (L-110):

1. COST OF RESTORING SURFACE TO ITS ORIGINAL CONDITION TO BE INCLUDED IN THE CONTRACTORS BID PRICE PER L.F. OF ITEM L-110 (INSTALLATION OF AIRPORT UNDERGROUND ELECTRICAL DUCT.) * INCLUDES GRAVEL BASE
2. COST OF DUCT MARKERS TO BE INCLUDED IN THE CONTRACTORS BID PRICE PER L.F. FT. OF ITEM L-110 (INSTALLATION OF AIRPORT UNDERGROUND ELECTRICAL DUCT.)
3. NO HAND LETTERING ON DUCT OR CABLE MARKERS.
4. CONDUIT TO BE NON METALLIC RIGID (PLASTIC - PVC) FED. SPEC. W-C-1094 (FAA L-110 TYPE E)
5. CABLE AND SPLICE MARKERS ARE REQUIRED PER FAA SPEC. L-854, SPLICES WILL NOT BE ACCEPTABLE EXCEPT WHEN CONNECTING EXISTING UNDERGROUND WIRE TO NEW WIRE.



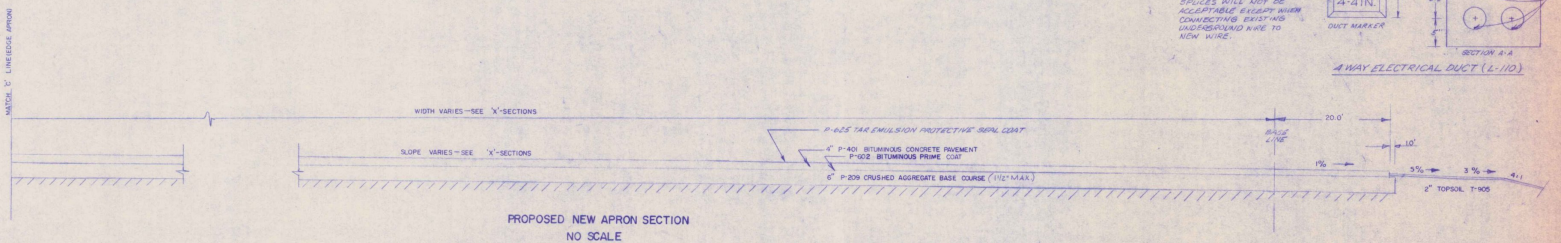
NOTES

1. COMPACT SUBGRADE AS PER FAA P-152 & T-611
2. TOPSOIL STRIPPED FROM NEW CONSTRUCTION TO BE STOCKPILED AND 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 14 DAYS (MIN.) AFTER COMPLETION OF ITEM P-401.
4. ITEM Q.27 SEED, LIME & FERTILIZER

THE SEED MIXTURE SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

TYPE OF GRASS	% PLS
CREEPING RED FESCUE	40
ALTA FESCUE	10
KENTUCKY BLUE	20
RED TOP	10
PERENNIAL RYE	5
WHITE CLOVER	5
ALSIKE CLOVER	5
OTHER	5

5. ITEM P-625 TO BE EMULSION ONLY APPLIED BY DISTRIBUTOR IN TWO APPLICATIONS AS INDICATED IN SECTION 857.12 OF THE SPECIFICATIONS.

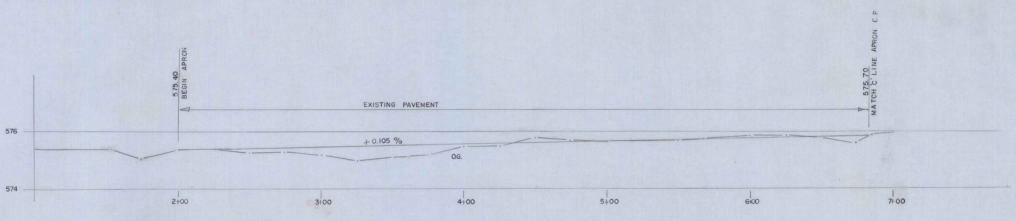


PROPOSED NEW APRON SECTION
NO SCALE

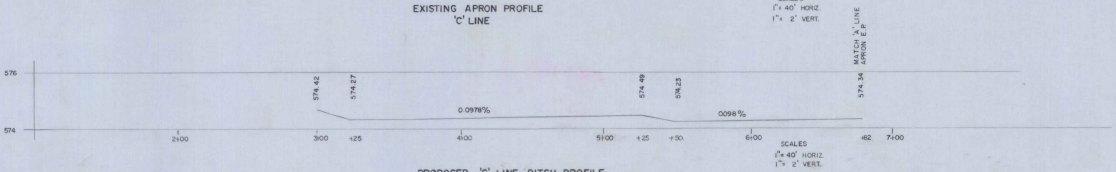
AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated hereon.
By Howard P. Comeau Resident Engineer
Date 6/09/81

ADAP NO. 5-50-0016-04
SPRINGFIELD STATE AIRPORT (HARTNESS)
SPRINGFIELD, VERMONT
TYPICAL SECTIONS
VERMONT AGENCY OF TRANSPORTATION
MONTPELIER, VERMONT
DRAWN BY GWD
DRAWING NO. 7 OF 16

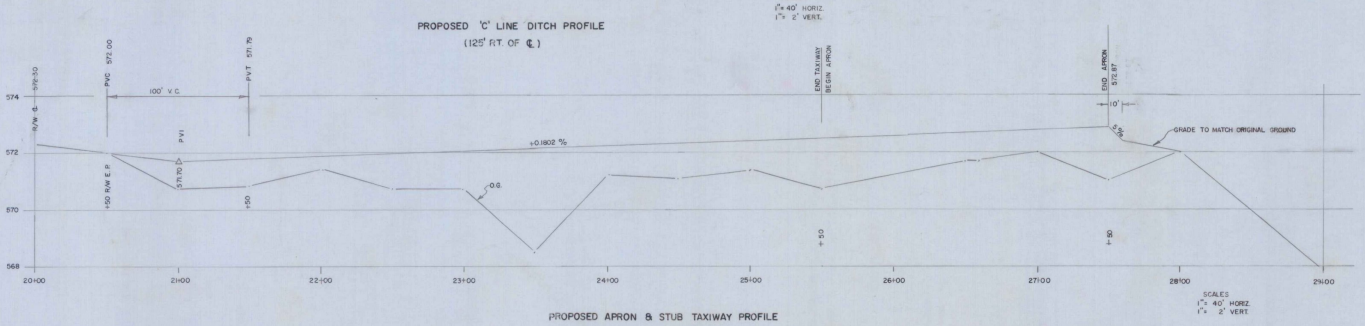
D-8 OCT 14 1981



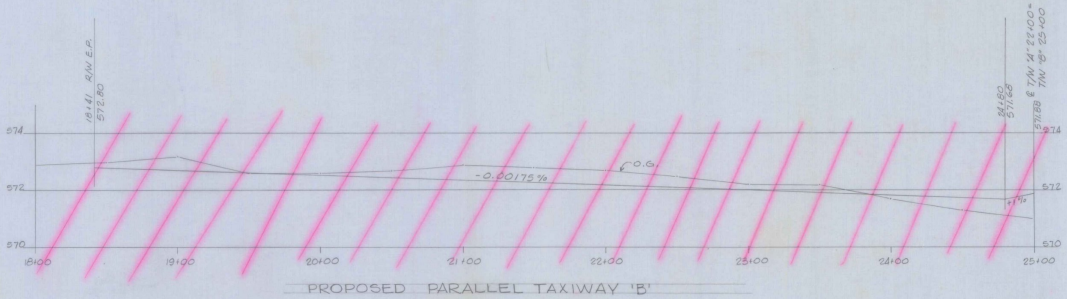
EXISTING APRON PROFILE
'C' LINE



PROPOSED 'C' LINE DITCH PROFILE
(125' RT. OF ℄)



PROPOSED APRON & STUB TAXIWAY PROFILE
'A' LINE



PROPOSED PARALLEL TAXIWAY 'B'

NOT UTILIZED ON THIS PROJECT

NOTE:
FOR STATION ELEVATIONS SEE SHEET 11 OF 16.

AS BUILT PLANS

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

By Howard P. Barney Resident Engineer

Date 6/69/(6)

ADAP NO. 5-50-0016-04

SPRINGFIELD STATE AIRPORT
(HARTNESS)
SPRINGFIELD, VERMONT

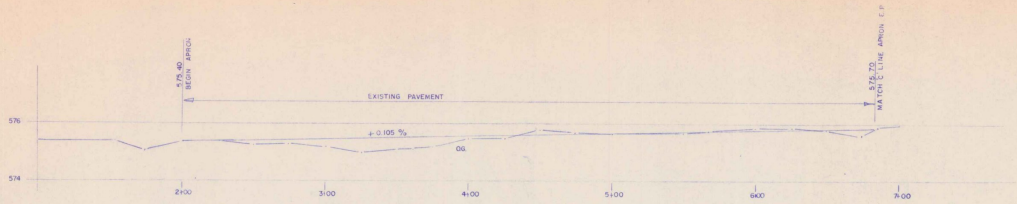
APRON & TAXIWAY PROFILES

VERMONT AGENCY OF TRANSPORTATION

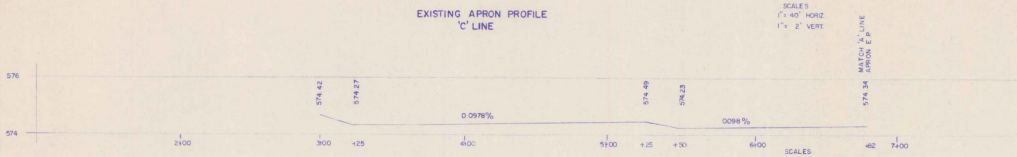
MONTPELIER, VERMONT

DRAWN BY: GWD DRAWING NO. 8 OF 16

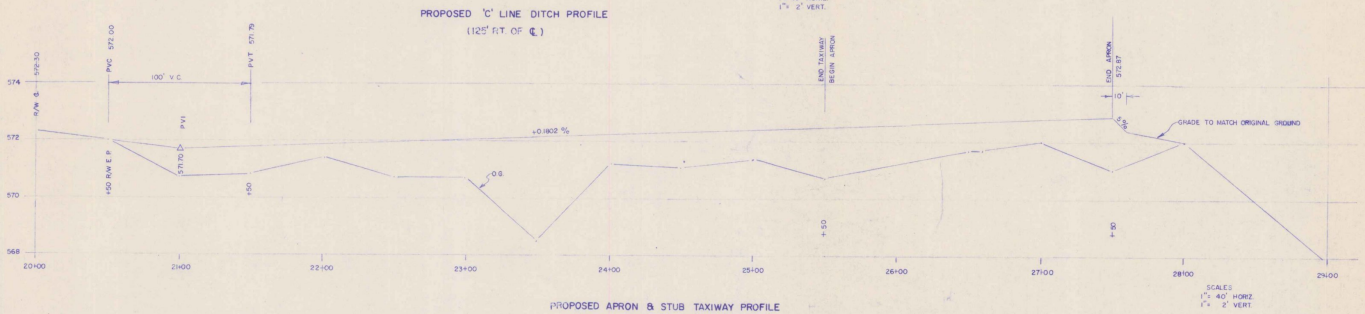
D-8



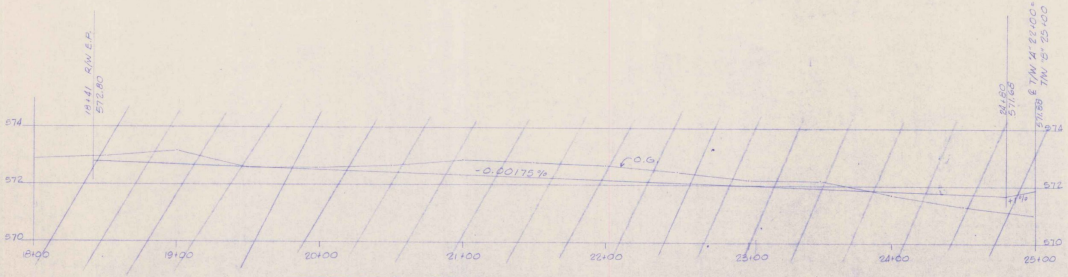
EXISTING APRON PROFILE
'C' LINE



PROPOSED 'C' LINE DITCH PROFILE
(125' RT. OF ℄)



PROPOSED APRON & STUB TAXIWAY PROFILE
'A' LINE

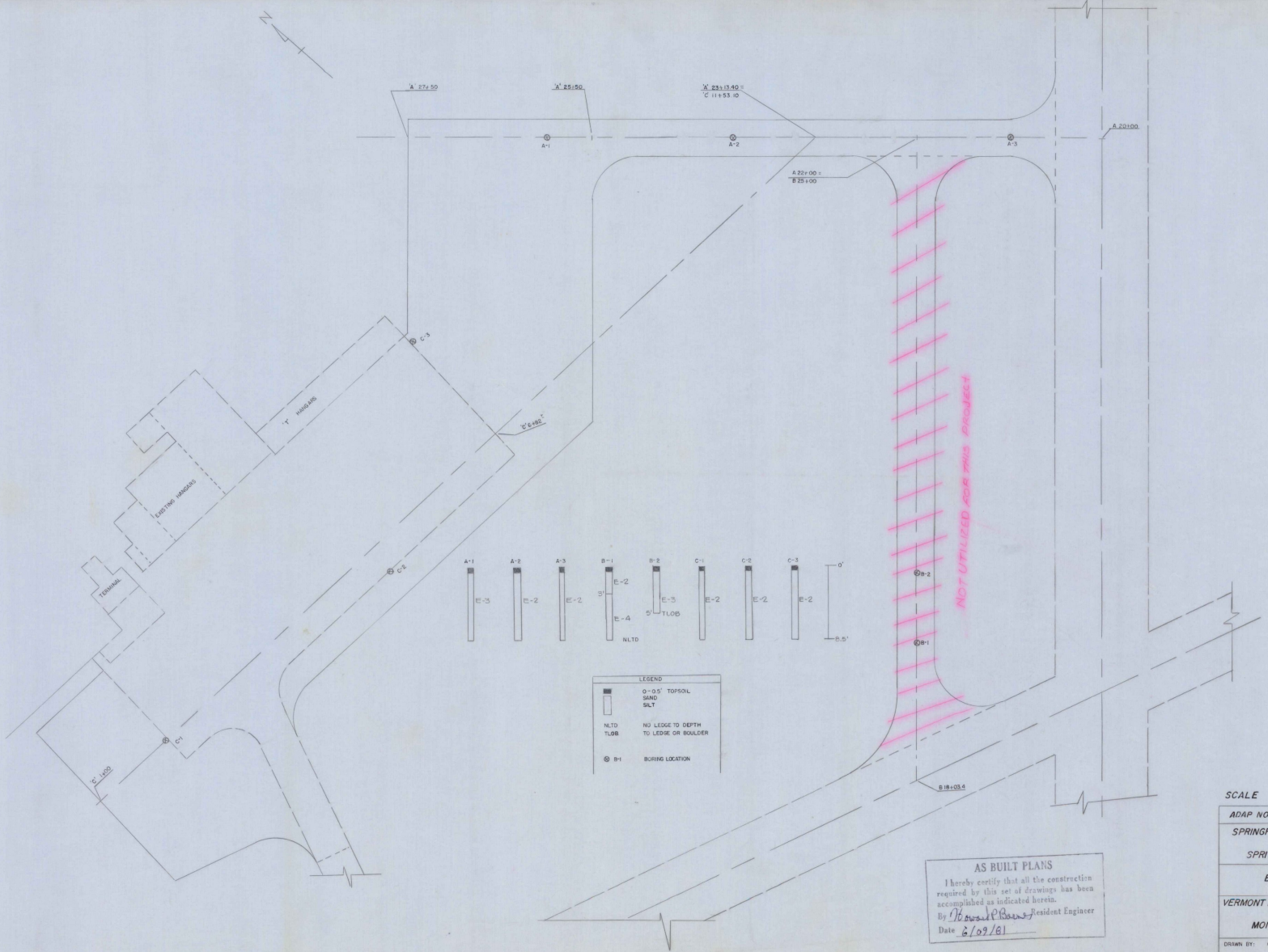


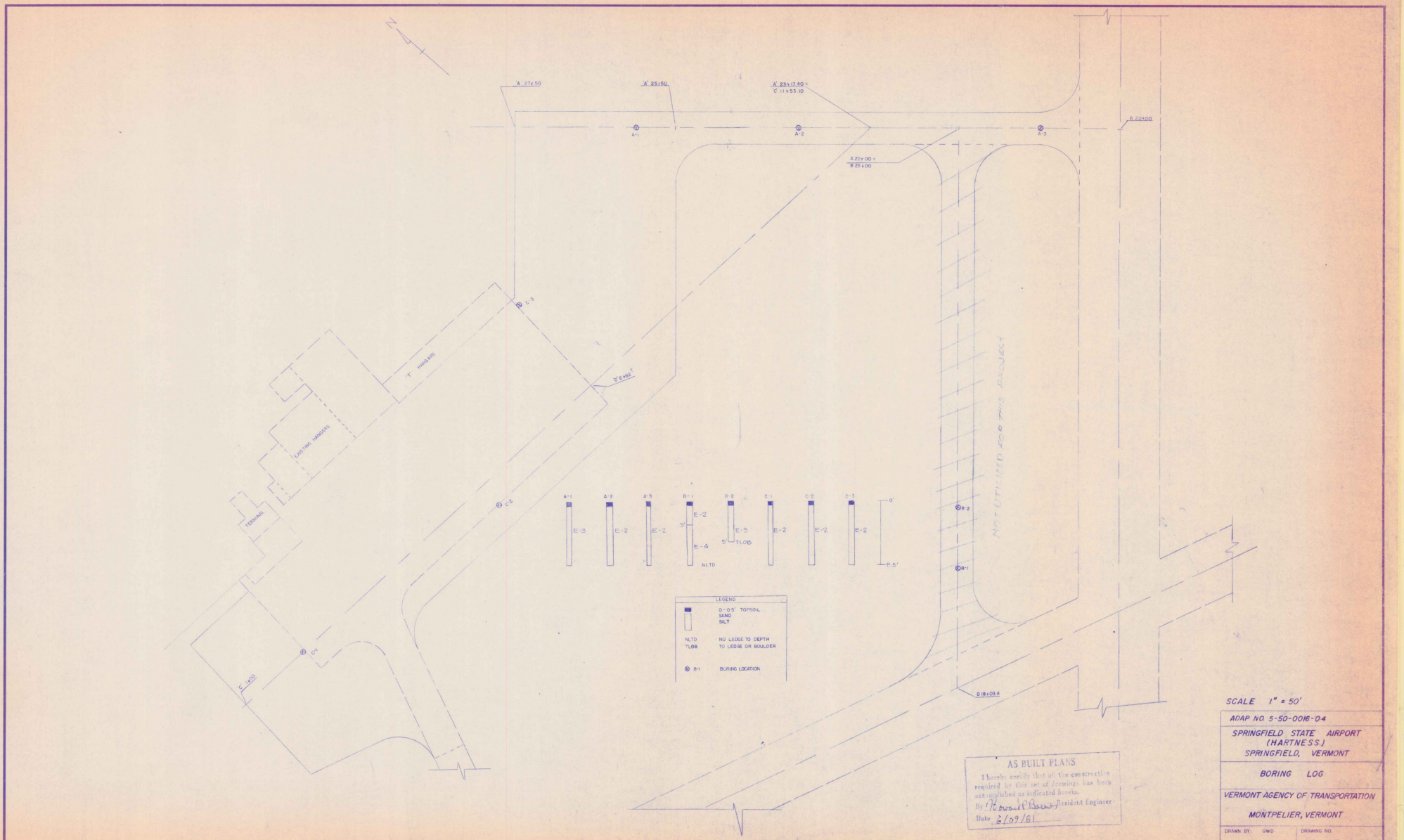
PROPOSED PARALLEL TAXIWAY 'B'
NOT UTILIZED ON THIS PROJECT

NOTE: FOR STATION ELEVATIONS SEE SHEET 11 OF 16.

AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated hereon.
By Oswald P. Bowne, President - Engineer
Date 6/09/81

ADAP NO. 5-50-0016-04
SPRINGFIELD STATE AIRPORT (HARTNESS)
SPRINGFIELD, VERMONT
APRON & TAXIWAY PROFILES
VERMONT AGENCY OF TRANSPORTATION
MONTPELIER, VERMONT
DRAWN BY: GWD
DRAWING NO. 8 OF 16


'A' 27+50
'A' 25+50
'A' 23+13.40 =
'C' 11+53.10
A 20+00
A 22+00 =
B 25+00
A-1
A-2
A-3
C-3
C-2
C-1
B-2
B-1
T HANGARS
EXISTING HANGARS
TERMINAL
0' E 485'
0' 1400
NOT UTILIZED FOR THIS PROJECT
B 18+03.4
A-1 A-2 A-3 B-1 B-2 C-1 C-2 C-3
E-3 E-2 E-2 E-2 E-4 NLTD E-3 TLOB E-2 E-2 E-2
0'
5'
5'
8.5'
LEGEND
0 - 0.5' TOPSOIL
SAND
SILT
NLTD NO LEDGE TO DEPTH
TLOB TO LEDGE OR BOULDER
B-1 BORING LOCATION
AS BUILT PLANS
I hereby certify that all the construction required by this set of drawings has been accomplished as indicated hereto.
By Howard Rowe Resident Engineer
Date 6/09/81
SCALE 1" = 50'
ADAP NO. 5-50-0016-04
SPRINGFIELD STATE AIRPORT
(HARTNESS)
SPRINGFIELD, VERMONT
BORING LOG
VERMONT AGENCY OF TRANSPORTATION
MONTPELIER, VERMONT
DRAWN BY: GWD
DRAWING NO.
9 OF 16
D-8



AS BUILT PLANS

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

By Howard C Bowe Resident Engineer

Date 6/07/61

SCALE 1" = 50'

ADAP NO. 5-50-0016-04

SPRINGFIELD STATE AIRPORT
(HARTNESS)
SPRINGFIELD, VERMONT

BORING LOG

VERMONT AGENCY OF TRANSPORTATION

MONTPELIER, VERMONT

DRAWN BY: GWD

DRAWING NO. 9 OF 16

D-8

OCT 14 1981

QUANTITY SHEET

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	SY	Excavation & Removal of Airport Pvmt.	202.14
				1,000	CY	Granular Borrow	203.32
				372	LF	18" ACCBMP (0.064)	601.1552
				3	EA	RRCP D.I. w/Cast Iron Grate	604.35
				5	EA	Changing Elevations of DI, CB, or M.H.	604.40
				1	LS	Mobilization	635.10
				50	LBS	Seed	651.10
				500	LBS	Fertilizer	651.15
				2	TON	Agricultural Limestone	651.20
				2	TON	Hay Mulch	651.25
				8000	CY	Common Excavation	P152-4.2
				50	CY	Solid Rock Excavation	P152-4.3
				2500	CY	Crushed Aggregate Base Course	P209
				6000	GAL	Bituminous Prime Coat	P602
				1200	GAL	Bituminous Tack Coat	P603
				552.0	TON	Bituminous Surface Course	P401
				1	LS	Taxiway Painting	P620
				3835	GAL	Tar Emulsion Protective Seal Coat	P622
				78	EA	Tiedown Anchor	
				300	CY	Topsoiling (off Site)	T905
				92	LF	Airport U.G. Elec. Duct (2way 4")	L 110
				46	LF	Airport U.G. Elec. Duct (4way 4")	L 110
						CONTRACT "B"	
				2	EA	PRC MH. w/ Cast Iron Cover	604.21
				1	LS	Mobilization	635.10
				1	EA	Lighted 12' Wind Cone Complete in Place (incl. Base & Etc.)	L 107
				9800	LF	Cable Trench	L 108
				21,000	LF	1c#8, L-824 Type C, 5KV Installed in Trench or Duct	L 108
				4700	LF	1c#12, L-824 Type C, 5KV Installed in Trench	L 108
				10,400	LF	#8 Bare Counterpoise Wire, Installed in Trench or Duct, Including Ground Rods and Connector	L 108
				1	LS	Airport Transformer Vault & Equipment Complete in Place	L 109
				30	EA	Medium Intensity Runway Lights (Clear Lens) State Mounted	L 125
				4	EA	Medium Intensity Runway Lights (Clear Lens) Base Mounted	L 125
				39	EA	Medium Intensity Taxiway Lights (Blue Filter) State Mounted	L 125
				2	EA	Medium Intensity Taxiway Lights (Blue Filter) Base Mounted	L 125
				12	EA	Medium Intensity Threshold Lights (Red/Green Filter) State Mounted	L 125
				660	LF	Airport U.G. Elec. Duct (4way 4")	L 110
				120	LF	#5 Conductor #12, L-824, Type A, 600V	L 108

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

TYPE OF CONSTRUCTION

STATIONS FROM	STATIONS TO	PAVEMENT WIDTHS			EQUATIONS +	EQUATIONS −
TOTALS						

LENGTH OF PROJECT

STATIONS		FEET	MILES	REMARKS
TOTALS				

SPRINGFIELD STATE AIRPORT

ADAP No. 5-50-0016-04 Filed

Sheet 10 of 16 Sheets

EARTHWORK

V.C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON V. CURVES	GRADES CORR. V.C.	GRADES DIST.	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	AREA	CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	BASE AREA	BASE CU. YDS.
		Line "A"												
		20+00	570.80				0							
		+50	570.20	572.20	0	50	116	107						
		21+00	571.70	571.78	+0.05		10	116			3	3		
		+50	571.73	571.79	0		10	19			2	2		
		22+00	571.88				18	26			0	0		
		+50	571.97				2	19			13	12		
		23+00	572.06				0	2			52	60		
		+50	572.15				0	0			212	244		
		24+00	572.24				22	23			92	217		
		+50	572.33				39	59			26	88		
		25+00	572.42				7	43			4	28		
		+50	572.52	POINT OF REVERSE CURVATURE		50	0	6	0.27	470	0.16	189	0.27	756
		26+00	572.60			50	22	48				211		
		+50	572.69				58	178			182	217		
		27+00	572.78				44	115			58	120		
		+50	572.87			50	0	42			112	150		
		+60	572.27			10	0	2			0	104		
		27+00	572.80			40			0.43	380			0.27	1078
		Line "B" Walkway 197+28.4												
		+61	572.80											
		+50	572.72				114	278						
		19+00	573.10				120	223						
		+50	573.41				116	312						
		20+00	573.33				130	326						
		+50	573.49				130	327						
		21+00	573.35				124	325						
		+50	573.26				132	290						
		22+00	573.18				164	338						
		+50	573.09				128	339						
		23+00	572.99				124	329						
		+50	572.91				146	332						
		24+00	571.82				109	322			0	2		
		+50	571.72				36	42			2	7		
		25+00=Abend	571.60				12	42			6	5		
								3924						

CARRIED FORWARD
COLUMN FOOTINGS

EARTHWORK

V.C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON V. CURVES	GRADES CORR. V.C.	GRADES DIST.	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	AREA	CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	BASE AREA	BASE CU. YDS.
		Line "C"												
		D. 175												
		1+00	572.30			25	60				54			
		+25	572.83				96	78			80	68		
		+50	573.38				126	132			8	41		
		+75	573.88				210	188			2	3		
		2+00	574.40				230	204			8	8		
		+25	574.93				180	167			13	5		
		+50	575.43				216	182			0	8		
		+75	575.90				186	190						
		3+00	576.51				184	162			0			
		+25	576.98				180	141			12	6		
		+50	576.56				180	170			28	15		
		+75	576.08				110	106			14	12		
		4+00	575.61				150	120			14	12		
		+25	575.64				172	142			2	7		
		+50	575.66				124	169			4	3		
		+75	575.69				176	171			2	5		
		5+00	575.72				224	183			2	2		
		+25	575.78				192	197			4	3		
		+50	575.82				190	121			6	5		
		+75	575.72				180	174			2	4		
		6+00	575.62				180	194			2	2		
		+25	575.84				196	178			2	6		
		+50	575.86			23	230	197			0	1		
		+75	575.98			7	148	173			6	4		
		6+92	576.20				72	49			28	5		
		7+00												
		+25						3714				225		
		+50												
		+75												
		8+00												
		+25												
		+50												
		+75												
		9+00												
		+25												
		+50												

CARRIED FORWARD
COLUMN FOOTINGS

EARTHWORK SUMMARY

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

SUMMARY OF BALANCES

STATION TO STATION		TOTAL EXCAV. EARTH & ROCK CUBIC YARDS	ROCK EXCAV. CUBIC YARDS	EMBANKMENT CUBIC YARDS	EXCESSES CUT	EXCESSES FILL	ACCUMULATIVE EXCESSES CUT	ACCUMULATIVE EXCESSES FILL	BASE CUBIC YARDS
"A" 20+00	23+50	490		756					
Abend 23+50	25+40	3924		1078					
"B" 197+28	201+40	3924		1078					
"C" 1+00	6+92	3714		225					
		7988		2006					

SHEET NO.	COL. NO.	SUMMARY BY COLUMNS EXCAVATION TOTAL CU. YDS.	EXCAVATION ROCK CU. YDS.	EMBANKMENT CUBIC YARDS	BASE CUBIC YARDS

REMARKS

EARTH AND ROCK EXCAVATION
SOLID ROCK EXCAVATION
EARTH EXCAVATION

PLANIMETERED FILL
LESS FACTORED SOLID ROCK
LESS DISPLACEMENT OF ANY LARGE STRUCTURES
NET PLANIMETERED FILL
FACTOR
PLANIMETERED FILL INCLUDING FACTOR

MATERIALS AVAILABLE FOR FILLS
EARTH EXCAVATION
CHANNEL EXCAVATION
UNDERDRAIN EXCAVATION
STRUCTURE EXCAVATION

TOTAL MATERIAL AVAILABLE FOR FILL

TOTAL FILL INCLUDING FACTOR
TOTAL MATERIAL FOR FILL
BORROW

PROJECT Egremont-Jeff State Aid 4

PROJECT STAP NO. S 150-(3016)CA
SHEET 11 OF 16 SHEETS

D-2

EARTHWORK

V.C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON V. CURVES	GRADES CORR. V.C.	GRADES DIST.	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	AREA	CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	BASE AREA	BASE CU. YDS.
		Line "A"												
		20 +00	572.30				0							
	-0.6%	+50	572.00	572.00	0	50	116	107						
VCC								116						
VCC		21 +00	571.70	571.75	+0.05		10				3			
		+50	571.79	571.79	0		10	19			0	3		
		22 +00	571.88				18	26			0	0		
		+50	571.97				2	19			13	12		
		23 +00	572.06				0	2			52	60		
		+50	572.15				0	0			212	244		
		24 +00	572.24				25	23			22	217		
	+0.1802 %	+50	572.33				32	59			26	44		
		25 +00	572.43				7	43			4	28		
		+50	572.52	END TAXIWAY BEGIN APRON		50	0	6	SUB-T.	420	156	148	SUB-T.	756
		26 +00	572.60			50	52	48			180	311		
		+50	572.69				80	122			162	317		
		27 +00	572.78			50	44	115			50	196		
		+50	572.87			50	2	43			112	150		
	-6.0%	+60	572.27			40	0	2			0	104		
		28 +00	572.00						SUB-T.	330			SUB-T.	1078
		Line "B" BEGINNING 18+03.4												
		+41	572.80											
		+50	572.72				114							
		19 +00	572.70				196	278						
		+50	572.61				174	332						
		20 +00	572.53				170	318						
		+50	572.44				180	324						
		21 +00	572.35				184	337						
		+50	572.26				182	335						
		22 +00	572.18				164	320						
		+50	572.09				158	288						
		23 +00	572.00				154	278						
		+50	571.91				146	232						
		24 +00	571.82				108	135			0	2		
		+50	571.73				36	45			2	7		
		+80	571.68											
		25 +00	571.85				12				6			
		A 22+00						3524				9		

CARRIED FORWARD
COLUMN FOOTINGS

EARTHWORK

V.C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON V. CURVES	GRADES CORR. V.C.	GRADES DIST.	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	AREA	CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	BASE AREA	BASE CU. YDS.
		Line "C"												
		0 +75												
		1 +00	573.30				60				54			
		+25	573.33			25	96	72			80	62		
		+50	573.35				186	135			8	41		
		+75	573.38				210	188			2	3		
		2 +00	573.40				230	204			2	2		
		+25	573.43				130	167			18	9		
		+50	573.45				224	164			0	8		
		+75	573.48				190	192						
		3 +00	573.51				164	164			0			
		+25	573.53				140	141			12	6		
		+50	573.56				120	120			28	19		
		+75	573.58				110	106			14	12		
		4 +00	573.61				150	120			14	13		
	+0.195 %	+25	573.64				172	149			2	7		
		+50	573.66				192	169			4	3		
		+75	573.69				176	171			2	3		
		5 +00	573.72				224	185			2	2		
		+25	573.74				170	182			4	3		
		+50	573.76				180	162			6	5		
		+75	573.79				196	174			2	4		
		6 +00	573.82				180	174			2	2		
		+25	573.84				196	177			2	2		
		+50	573.86				230	193			0	1		
		+75	573.89			25	148	173			8	4		
		6+82	573.90			7	72	29		(9)	28	5		
		7+00												
		+22						3714				225		
		+50												
		+75												
		8 +00												
		+25												
		+50												
		+75												
		9 +00												
		+25												
		+50												
		+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

STATION TO STATION		TOTAL EXCAV. EARTH & ROCK CUBIC YARDS	ROCK EXCAV. CUBIC YARDS	EMBANKMENT CUBIC YARDS	EXCESSES CUT	EXCESSES FILL	ACCUMULATIVE EXCESSES CUT	ACCUMULATIVE EXCESSES FILL	BASE CUBIC YARDS
"A"									
20+00	25+50	620		756					
APRON									
25+50	28+00	330		1078					
"B"									
18+40	25+40	3524		9					
"C"									
1+00	6+82	3714		225					
		7988		2068					

SUMMARY BY COLUMNS

SHEET NO.	COL. NO.	EXCAVATION TOTAL CU. YDS.	EXCAVATION ROCK CU. YDS.	EMBANKMENT CUBIC YARDS		BASE CUBIC YARDS	REMARKS
							EARTH AND ROCK EXCAVATION
							SOLID ROCK EXCAVATION
							EARTH EXCAVATION
							PLANIMETERED FILL
							LESS FACTORED SOLID ROCK
							LESS DISPLACEMENT OF ANY LARGE STRUCTURES
							NET PLANIMETERED FILL
							FACTOR
							PLANIMETERED FILL INCLUDING FACTOR
							MATERIALS AVAILABLE FOR FILLS
							EARTH EXCAVATION
							CHANNEL EXCAVATION
							UNDERDRAIN EXCAVATION
							STRUCTURE EXCAVATION
							TOTAL MATERIAL AVAILABLE FOR FILL
							TOTAL FILL INCLUDING FACTOR
							TOTAL MATERIAL FOR FILL
							BORROW

PROJECT Springfield State Airport

PROJECT ADAP NO 3-50-0016-04

SHEET 11 OF 16 SHEETS

QUANTITY SHEET

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	SY	Excavation & Removal of Airport Pvmt.	202.14
			1000	CY	Unsuitable Borrow	203.32
			372	LF	18" ADS/AMP (100G)	601/252
			3	EA	R.C.C.P. Cl. w/Cast Iron Grate	604.35
			2	EA	Changing Elevations of Drs. etc. to Mtn.	604.40
			1	LS	Mobilization	635.10
			50	LBS	Seed	651.10
			500	LBS	Fertilizer	651.15
			2	TON	Agricultural Limestone	651.20
			2	TON	Hay Mulch	651.25
			8000	CY	Common Excavation	P152-4.2
			50	CY	Solid Rock Excavation	P152-4.2
			2500	CY	Crushed Aggregate Base Course	P209
			9000	GAL	Bituminous Prime Coat	P602
			1200	GAL	Bituminous Tack Coat	P603
			22.20	TON	Bituminous Surface Course	P-401
			1	LS	Taxiway Painting	P620
			8335	GAL	Tar Emulsion Protective Seal Coat	P626
			28	EA	Tiedown Anchor	
			500	CY	Topsoiling Off Site	T905
			90	LF	Airport U.G. Elec. Duct (Runway)	L110
			40	LF	Airport U.G. Elec. Duct (Away 4')	L110
					CONTRACT "B"	
			2	EA	P.R.C. MH w/ Cast Iron Cover	604.21
			1	LS	Mobilization	635.10
			1	EA	Lighted 12'Wind Cone Complete in Place (incl. Base & Elec.)	L107
			9900	LF	Cable Trench	L109
			21,000	LF	#8 #8 L-824, Type C, 5 KV Installed in Trench or Duct	L109
			5700	LF	1c #12, L-824, Type C, 5 KV Installed in Trench	L109
			10,400	LF	#8 Bare Counterpoise Wire, Installed in Trench or Duct, Including Ground Rods and Connectors	L108
			1	LS	Airport Transformer Vault & Equipment Complete in Place	L109
			31	EA	Medium Intensity Runway Lights (Clear Lens) Flake Mounted	L125
			2	EA	Medium Intensity Runway Lights (Clear Lens) Base Mounted	L125
			32	EA	Medium Intensity Taxiway Lights (Blue Filter) Flake Mounted	L125
			2	EA	Medium Intensity Taxiway Lights (Blue Filter) Base Mounted	L125
			72	EA	Medium Intensity Threshold Lights (Red/Green Filter) Flake Mounted	L125
			650	LF	Airport U.G. Elec. Duct (Away 4')	L110
			120	LF	2c Conduit for #12, L-824, Type A, 600V	L108

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

TYPE OF CONSTRUCTION

STATIONS FROM	STATIONS TO	PAVEMENT WIDTHS			EQUATIONS +	EQUATIONS −
TOTALS						

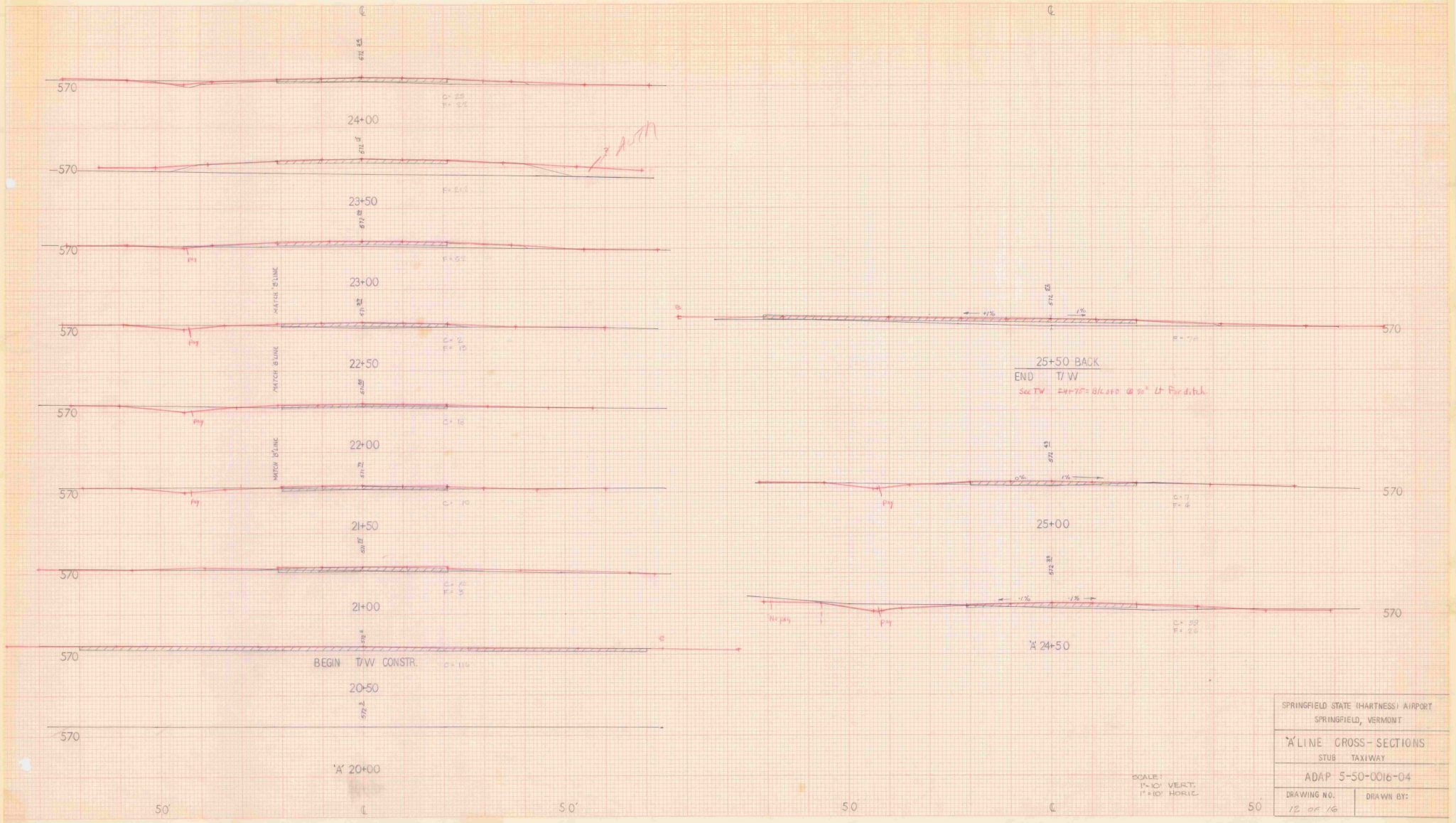
LENGTH OF PROJECT

STATIONS	FEET	MILES	REMARKS
TOTALS			

SPRINGFIELD STATE AIRPORT

ADAP No. 3-50-0016-04 Filed
Sheet 10 of 16 Sheets

OCT 14 1981



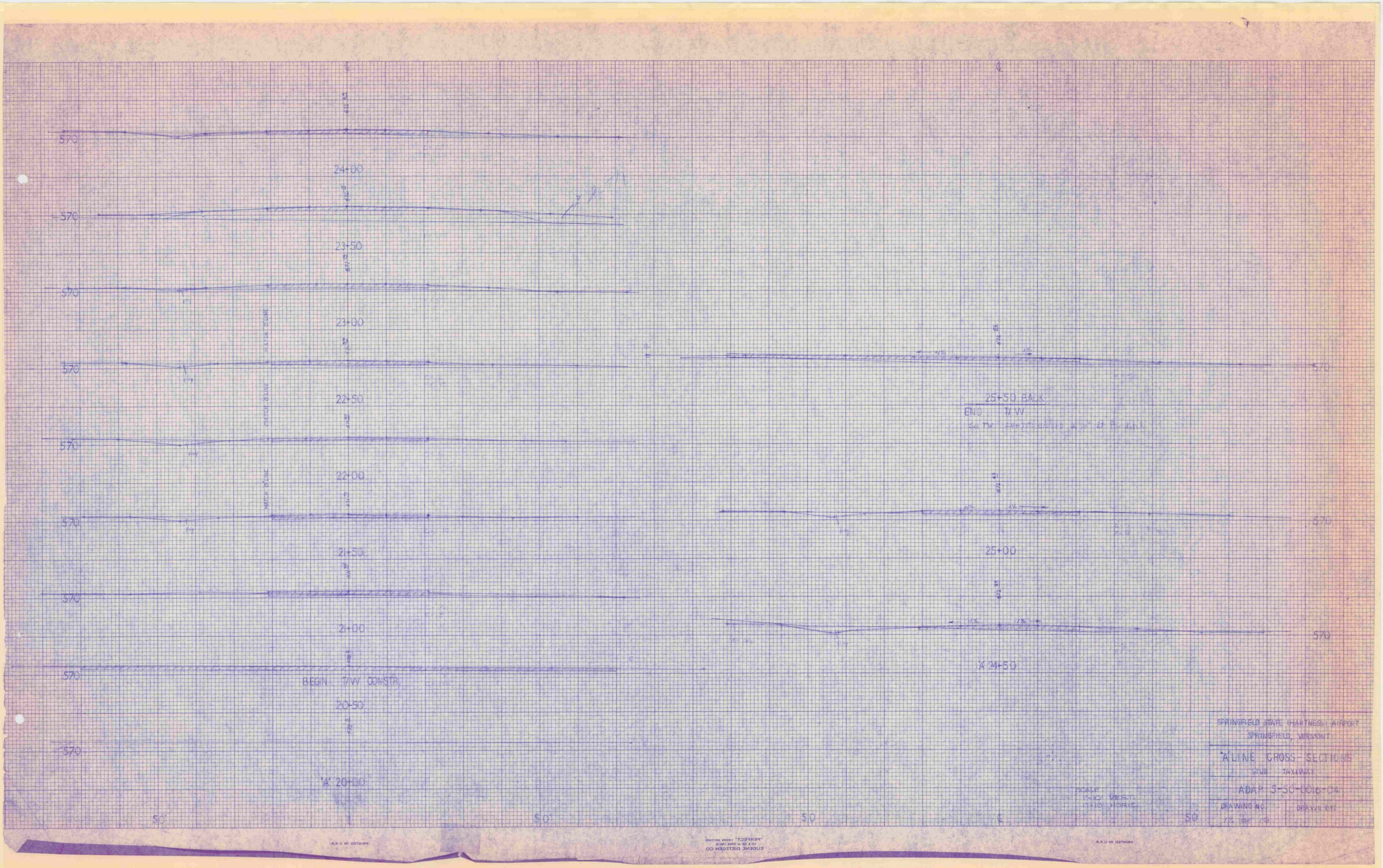
SPRINGFIELD STATE (HARTNESS) AIRPORT
SPRINGFIELD, VERMONT

'A' LINE CROSS-SECTIONS
STUB TAXIWAY

ADAP 5-50-0016-04

DRAWING NO. 12 OF 16

DRAWN BY:



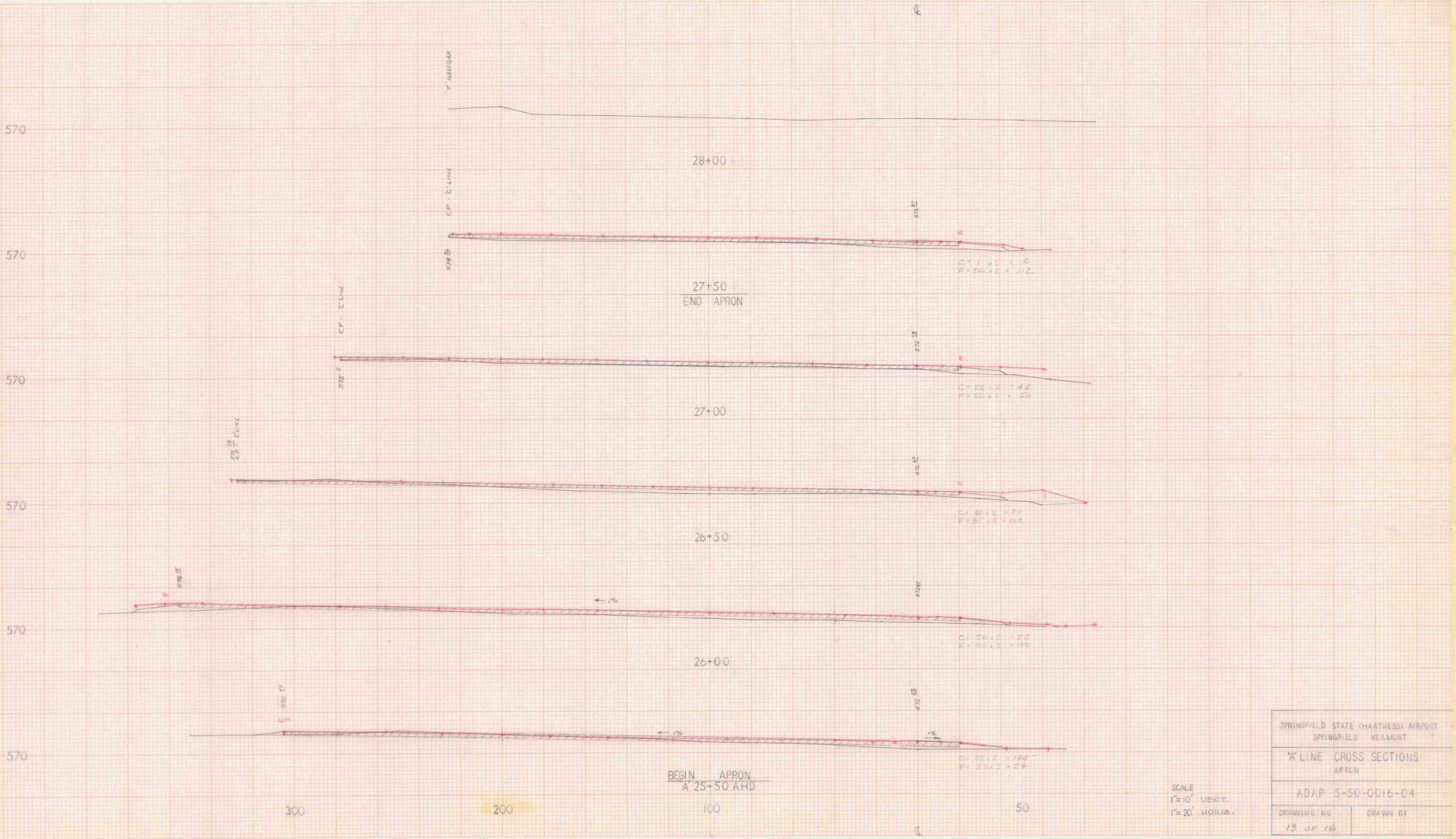
SPRINGFIELD STATE HARTNESS AIRPORT
SPRINGFIELD, VERMONT

"A" LINE CROSS SECTIONS
STUB TAXIWAY

ADAP 5-50-0006-04

DRAWING NO.

DRAWN BY:



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

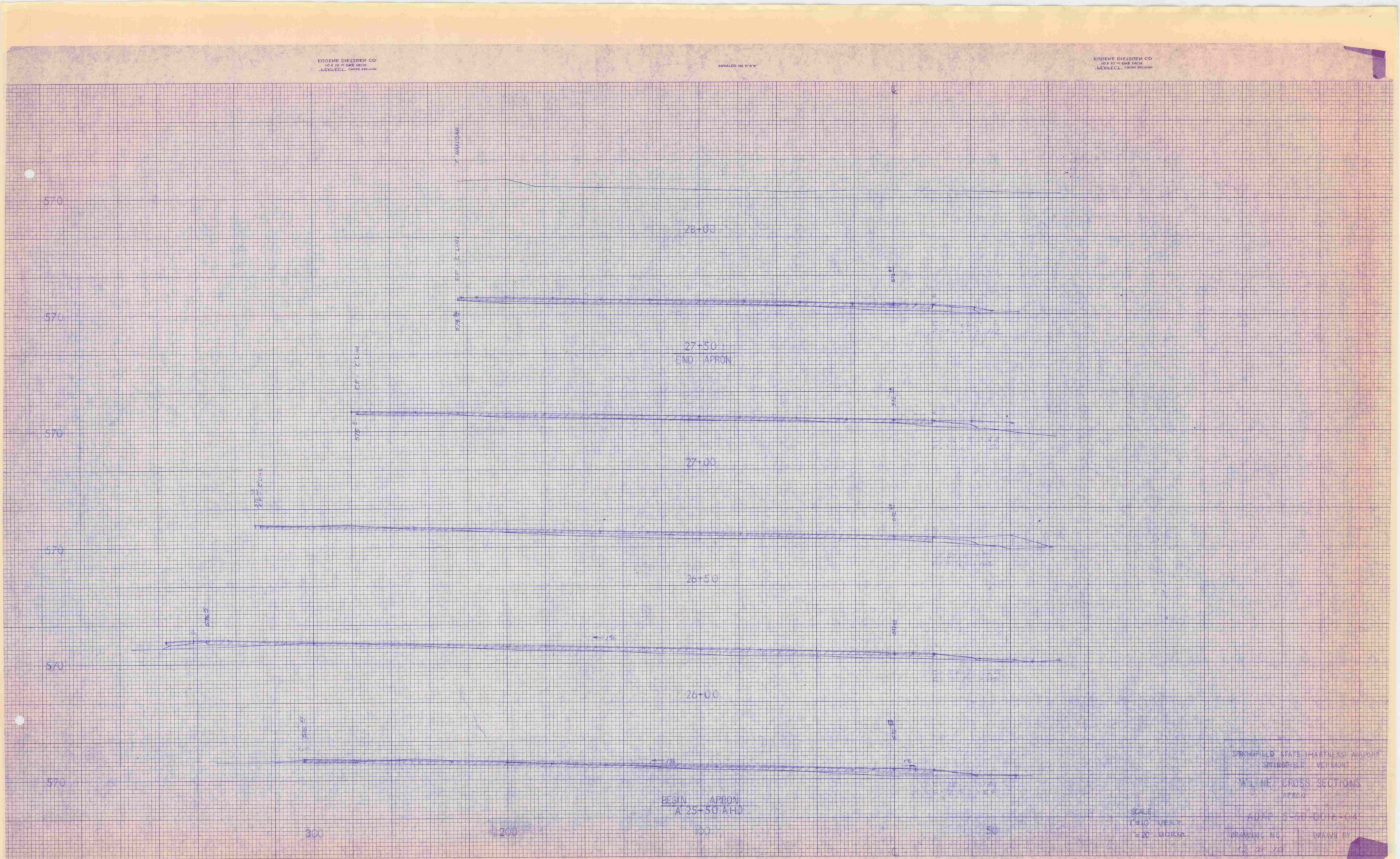
SPRINGFIELD STATE (HARTNESS) AIRPORT
SPRINGFIELD VERMONT

'A' LINE CROSS SECTIONS
APRON

ADAP 3-50-0016-04

DRAWING NO
13 OF 16

DRAWN BY



SPRINGFIELD STATE HAMLESS AIRPORT
SPRINGFIELD, VERMONT

"A" LINE CROSS SECTIONS
SHEET 2

AIP NO. 3-50-0016-04

DRAWING NO. DRAWN BY

12 OF 20

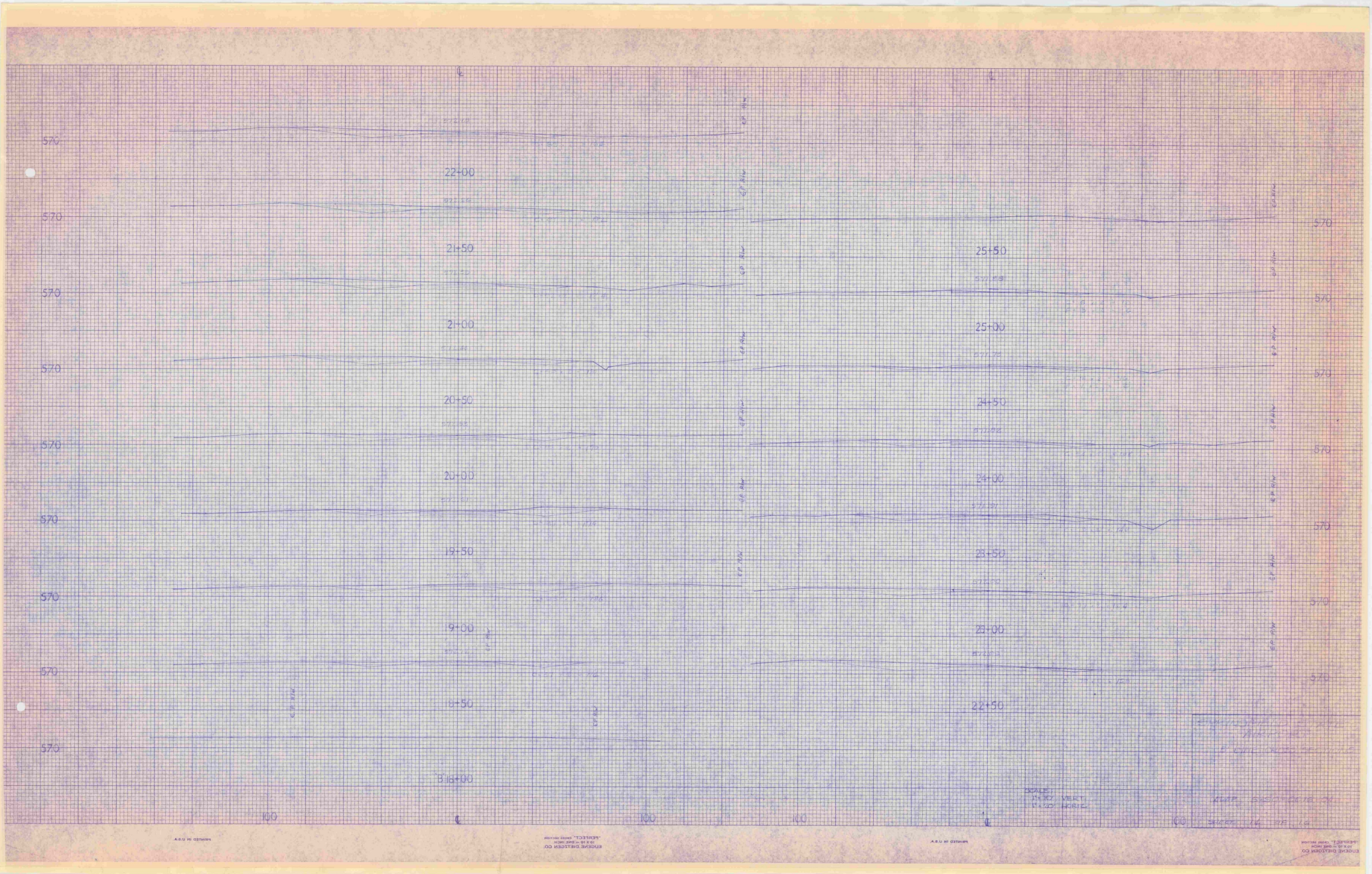


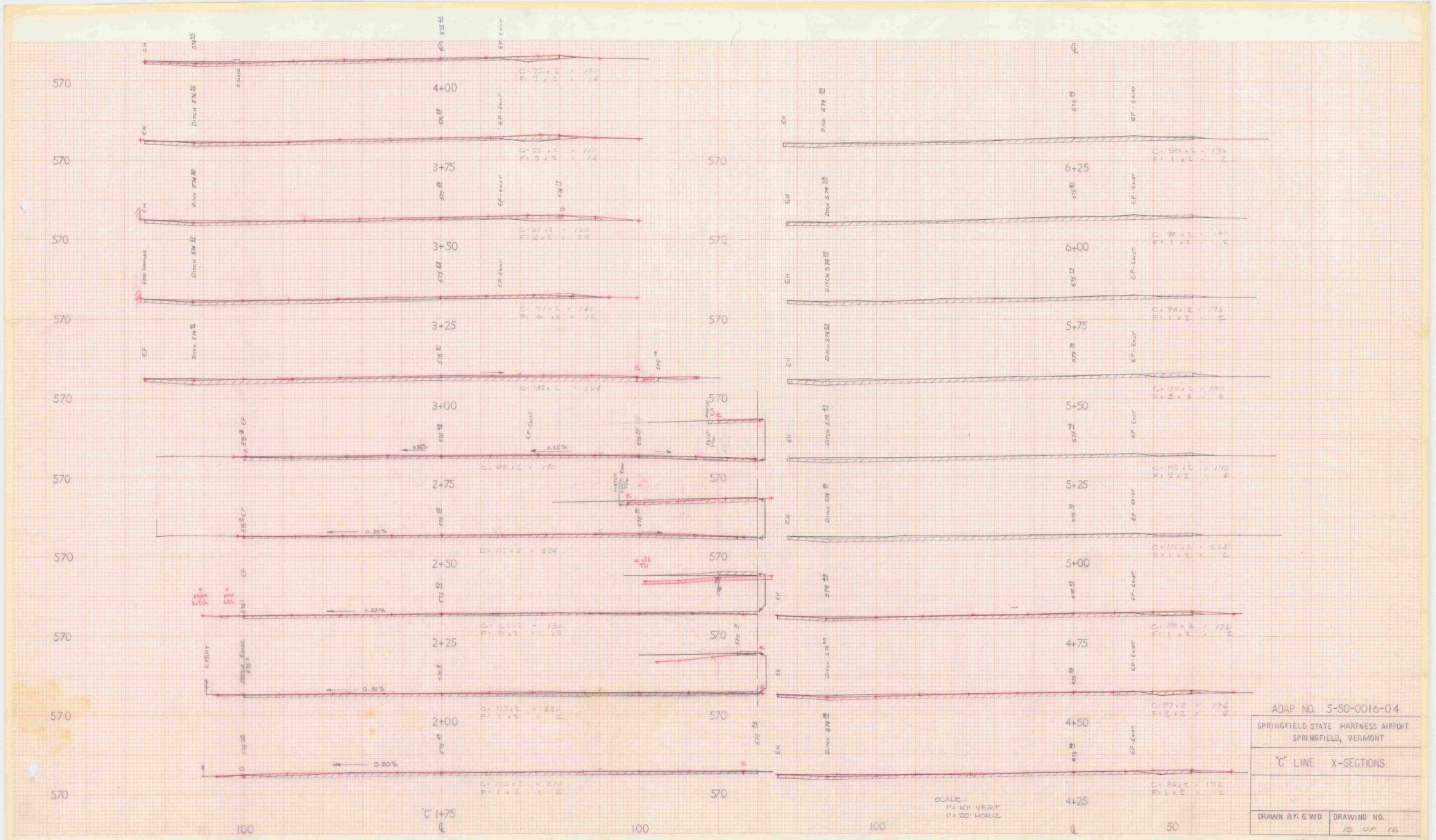
SCALE:
1" = 10' VERT.
1" = 20' HORIZ.

SPRINGFIELD STATE AIRPORT
'B' LINE CROSS SECTIONS

ADAP S-50-0016-04

SHEET 14 OF 16


570
22+00
21+50
21+00
20+50
20+00
19+50
19+00
18+50
18+00
25+50
25+00
24+50
24+00
23+50
23+00
22+50
100
SCALE:
1"=10' VERT.
1"=100' HORIZ.



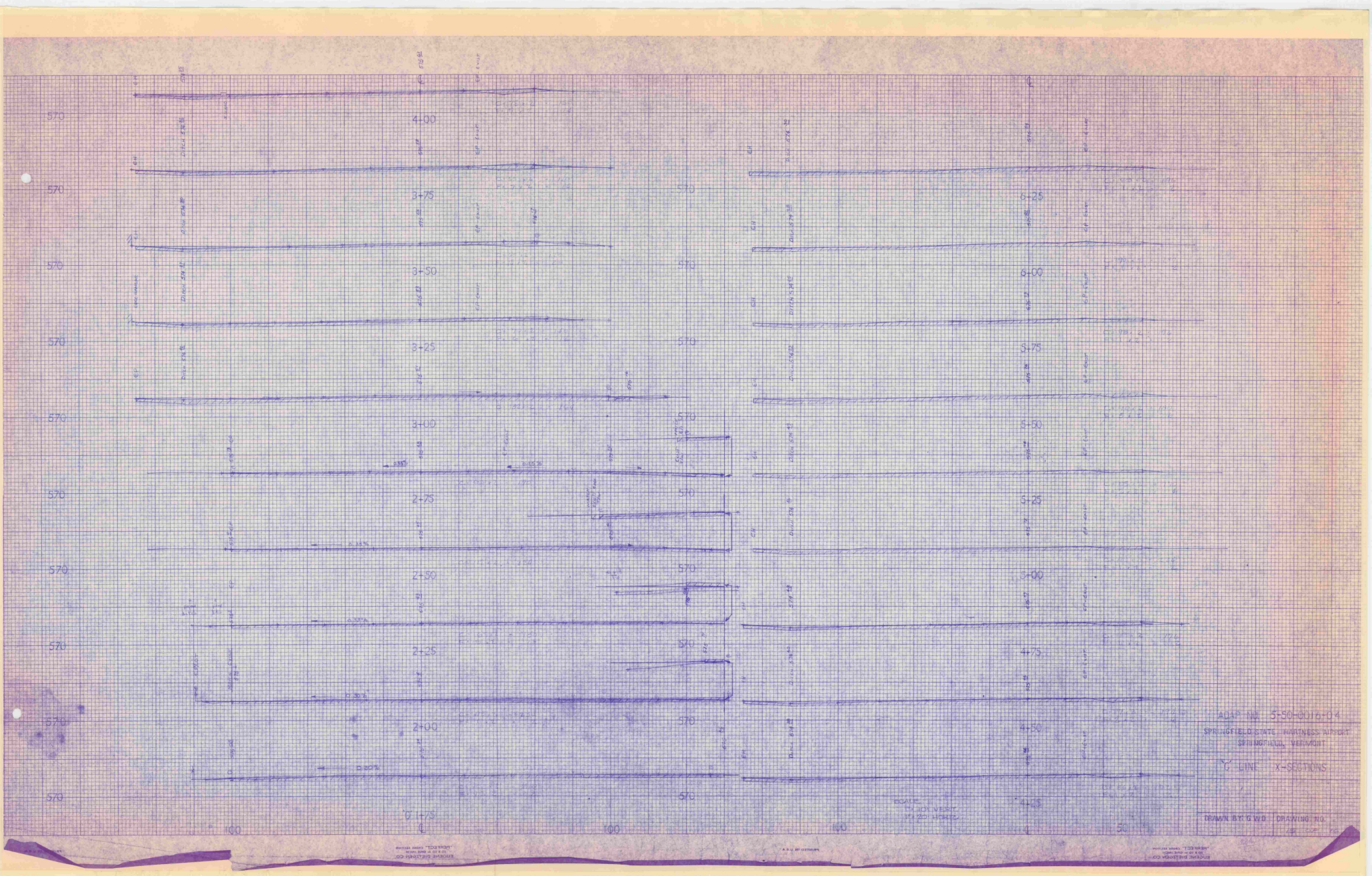
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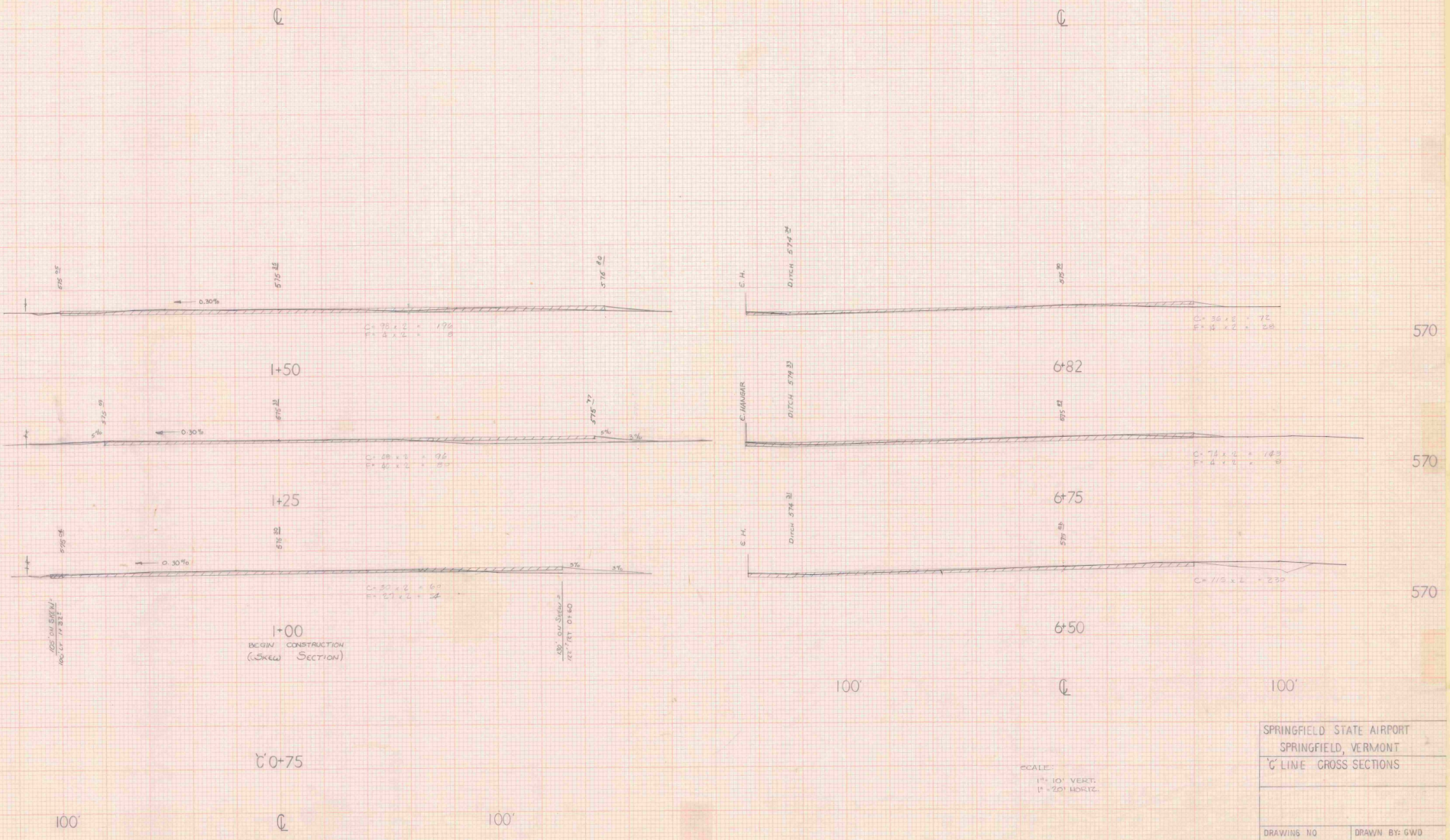
SPRINGFIELD STATE HARTNESS AIRPORT
SPRINGFIELD, VERMONT

'C' LINE X-SECTIONS

DRAWN BY: G.W.D.

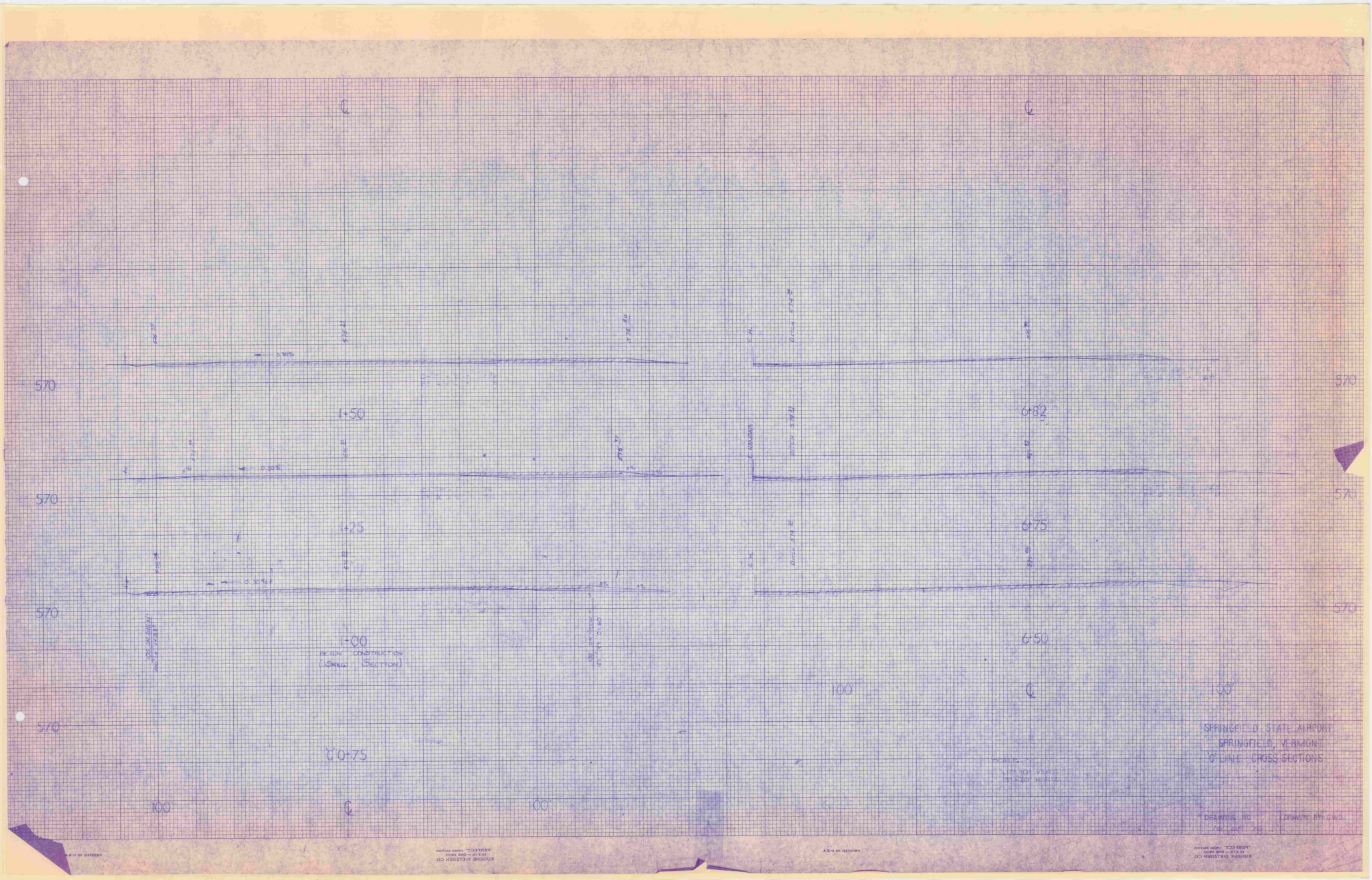
DRAWING NO. 15 OF 16


4+00
3+75
3+50
3+25
3+00
2+75
2+50
2+25
2+00
1+75
6+25
6+00
5+75
5+50
5+25
5+00
4+75
4+50
4+25
570
100
50
AOAP NO. 3-50-0016-04
SPRINGFIELD STATE MARTINEZ AIRPORT
SPRINGFIELD, VERMONT
"O" LINE X-SECTIONS
DRAWN BY: G.W.D.
DRAWING NO.



SPRINGFIELD STATE AIRPORT
SPRINGFIELD, VERMONT
'℄' LINE CROSS SECTIONS

DRAWING NO	DRAWN BY: GWD
16 OF 16	


℄
570
1+50
0.30%
570
1+25
570
1+00
BEGIN CONSTRUCTION
(Street Section)
℄
0+75
100'
℄
100'
℄
570
6+82
570
6+75
570
6+50
100'
℄
100'
SPRINGFIELD STATE AIRPORT
SPRINGFIELD, VERMONT
'C' LINE CROSS SECTIONS

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

VERMONT AGENCY OF TRANSPORTATION
PLANNING DIVISION