

STATE OF VERMONT
 AGENCY OF TRANSPORTATION

CONTRACT PLANS
 THESE PLANS DO NOT REFLECT
 CHANGES MADE ON THE PROJECT.

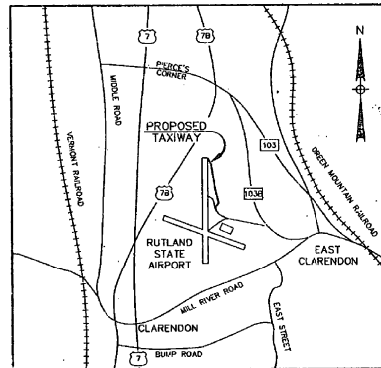
RUTLAND STATE AIRPORT
 TAXIWAY 'E'

CONSTRUCTION OF A PARALLEL TAXIWAY TO SERVE RUNWAY 1-19
 INCLUDING DRAINAGE, TAXIWAY LIGHTING AND ASSOCIATED PAVEMENT MARKINGS

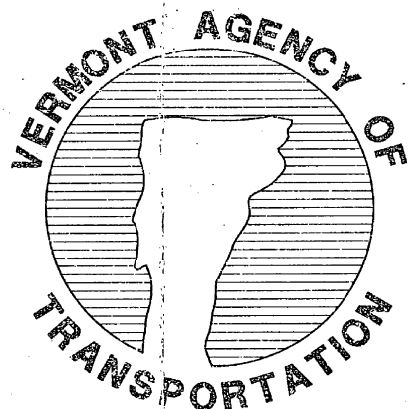
FAA PROJECT NO. 04-3083-3084
 VAOT PROJECT NOS. AIR 04-3083/3084

DESIGNERS STATEMENT REGARDING COMPLIANCE
 These plans and specifications have been prepared to the best of my knowledge and belief in accordance with the list of current FAA Advisory Circulars for APJ projects provided by the FAA, in a list dated February 28, 1993. Known deviations from FAA standards were approved by FAA letters dated February 8, 1993 and are discussed in this Project Engineering Report and/or other official project documents.
 BY: *Neal J. Forschner* DATE: 8/24/93
 NEAL J. FORSCHNER, P.E.

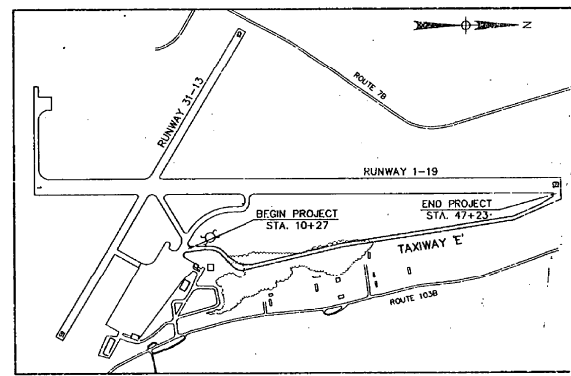
For Index of Sheets
 See Sheet 3
 Dated: OCT 26 1993
 Contractor
 Signature
 Vice President
 Title
 Transportation Secretary's Signature



LOCATION PLAN



AUGUST 23, 1993



SITE PLAN

ENVIRODYNE ENGINEERS, INC.
 CONSULTING ENGINEERS
 NEW YORK, NEW YORK

ENVIRODYNE ENGINEERS, INC.
Neal J. Forschner
 NEAL J. FORSCHNER
 STATE OF VERMONT P.E. NO. 6446

VERMONT AGENCY OF TRANSPORTATION
 APPROVED: *W. S. ...* DATE: 8/24/93
 DIRECTOR OF NAEP

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL AVIATION ADMINISTRATION
 APPROVED: _____ DATE: _____
 CHIEF APPROPRIATE DIVISION

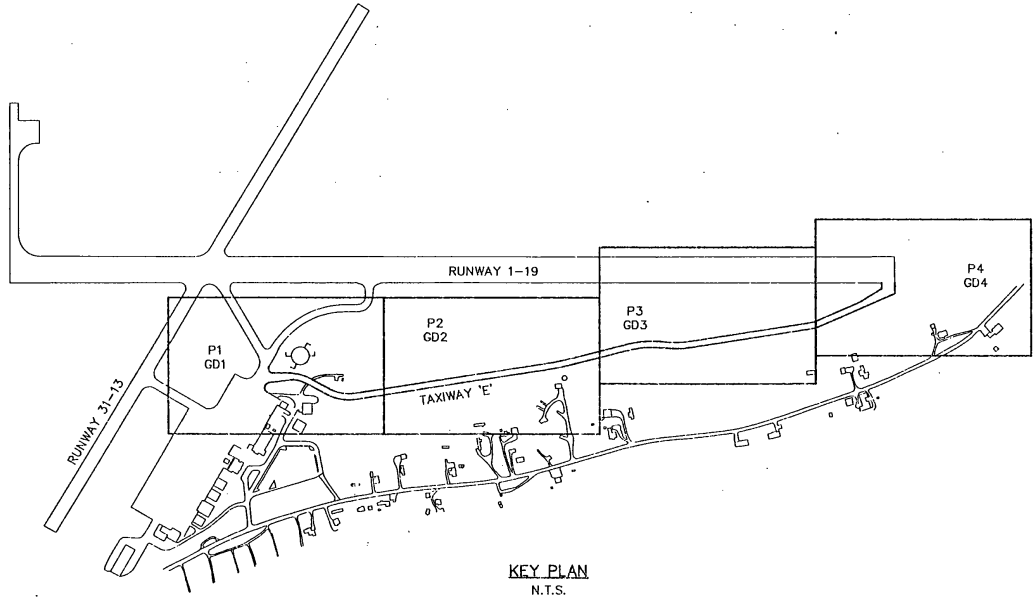
Sheet 1 of 41

2. ENVIRODYNE ENGINEERS, INC. 100 WEST 42ND STREET, NEW YORK, NY 10018-3675

LEGEND		DESCRIPTION
EXISTING	PROPOSED	
		BORING
		TOP OF CUT
		TOP OF FILL
		CHAIN LINK FENCE
		WATER LINE
		CONTOUR (1 FT.)
		CONTOUR (5 FT.)
		PROPERTY LINE
		NORTH ARROW
		MANHOLE
		CATCH BASIN
		TAXIWAY LIGHT
		UTILITY POLE
		PIPE
		END SECTION
		DRAINAGE FLOW
		PVC UNDERDRAINS
		UNDERDRAIN CLEANOUT
		UNDERDRAIN END CAP
		OBJECT FREE AREA
		SAFETY AREA

GENERAL NOTES

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE AIRPORT MANAGER 48 HOURS PRIOR TO ACTUAL WORK.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES WITHIN THE CONSTRUCTION SITE.
3. ALL UNSUITABLE EXCAVATED MATERIAL SHALL BE DISPOSED OF AT THE SELECTED ON SITE LOCATION OR WHERE DIRECTED BY THE ENGINEER.
4. WHERE CONNECTIONS TO EXISTING DRAINAGE STRUCTURES ARE TO BE MADE, THE CONTRACTOR SHALL BREAK INTO THE EXISTING STRUCTURE (MAX. SIZE OF OPENING TO BE I.D.+3"). CONNECT NEW PIPE AND SEAL AROUND PIPE WITH CEMENT MORTAR.
5. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING ADJACENT TO POWER AND COMMUNICATION LINES TO PREVENT DAMAGE TO THESE LINES. THE CONTRACTOR SHALL HAND EXCAVATE TO EXPOSE THOSE LINES PRIOR TO PERFORMING ANY OTHER EXCAVATION WORK IN THE AREA. THE CONTRACTOR SHALL RUPAP ANY POWER OR COMMUNICATION INTERRUPTION IMMEDIATELY.
6. THE CONTRACTOR SHALL PROVIDE ADEQUATE SUPPORT, APPROVED BY THE ENGINEER FOR ALL UTILITIES THAT ARE EXPOSED DURING CONSTRUCTION TO INSURE AGAINST DAMAGE.
7. SEE ELECTRICAL DRAWINGS FOR COMPLETE LAYOUT OF EXISTING AND PROPOSED ELECTRICAL AND COMMUNICATION DUCTS AND CONDUIT SYSTEMS.
8. WHERE INTERFERENCES WITH OTHER UTILITIES OR CONSTRUCTION ARE ENCOUNTERED IN ANY SANITARY OR DRAINAGE SYSTEM, THE CONTRACTOR MAY ADJUST THE ALIGNMENT OR INVERT ELEVATIONS OF THAT SYSTEM ONLY AT THE DIRECTION OF THE ENGINEER.
9. WHERE CONSTRUCTION CROSSES, OR IS ADJACENT TO EXISTING UTILITY LINES (FUEL, WATER, TELEPHONE, GAS, ELECTRIC, COMMUNICATION), THE CONTRACTOR SHALL NOTIFY THE UTILITY INVOLVED PRIOR TO PROCEEDING, UPON NOTICE TO PROCEED THE CONTRACTOR SHALL CAREFULLY HAND EXCAVATE, SO AS TO LOCATE, MARK, PROTECT THE UTILITY LINES AGAINST DISTURBANCE OR DAMAGE.
10. DURING THE COURSE OF CONSTRUCTION, EROSION CONTROL WILL BE PRACTICED. SEE DETAILS ON DRAWING NOS. WM1-WM4 AND DD2.
11. CONTRACTOR TO COORDINATE HIS/HER WORK WITH FAA PERSONNEL RESPONSIBLE FOR THE MAINTENANCE OF THE LOCALIZER.



KEY PLAN
N.T.S.

SEAL	
<i>WJL</i>	
PROJECT NO.	7804
DESIGNED BY	ENVIRONMENTAL ENGINEERS, INC.
DRAWN BY	41 EAST 42ND ST., SUITE 1015
DATE	NEW YORK, NY 10017
DATE	JUNE 14, 1983
SCALE	NOT TO SCALE
RUTLAND STATE AIRPORT CLARENDON, VERMONT	
TAXIWAY E	
LEGEND, NOTES AND KEY PLAN	
DRAWING NO.	
G1	
SHEET 2 OF 4	

INDEX OF DRAWINGS

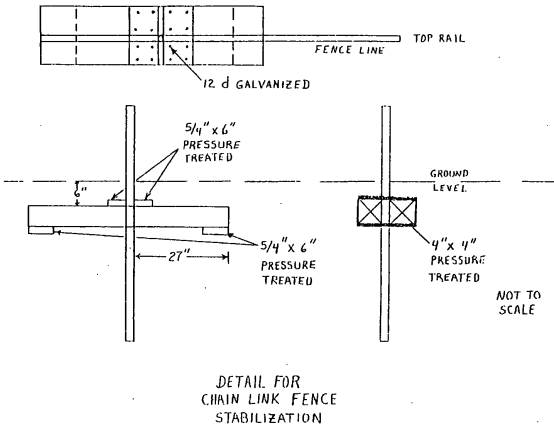
SHEET NO.	DRAWING NO.	DRAWING TITLE
1		TITLE SHEET
2	G1	LEGEND, GENERAL NOTES, AND KEY PLAN
3	G2	INDEX AND STANDARD DRAWINGS
3A & 3B		QUANTITY SHEETS
3C & 3D		BORING LOGS
4	SP1	SAFETY PLAN
5	C1	HORIZONTAL AND VERTICAL CONTROL
6	TS1	TYPICAL SECTION
7-10	P1-4	PILE PLANS
11-13	DD1-3	DRAINAGE AND DRAINAGE PLANS
14	PR1	TAXIWAY PROFILE
17-20	LI-4	LIGHTING PLANS AND DETAILS
21-22	SI-2	SIGNING AND STRIPING PLANS
23-24	WRI-4	WETLAND MITIGATION AND EROSION CONTROL PLANS AND DETAILS
27-28	DD1-2	DRAINAGE DETAILS
29	HRI	HAUL ROAD AND SPOIL AREA PLAN
30	BF1	BLAST FENCE
31-41		CROSS SECTIONS

THE FOLLOWING DRAWINGS ARE TO BE REFERENCED AND APPLIED WHEN APPLICABLE:

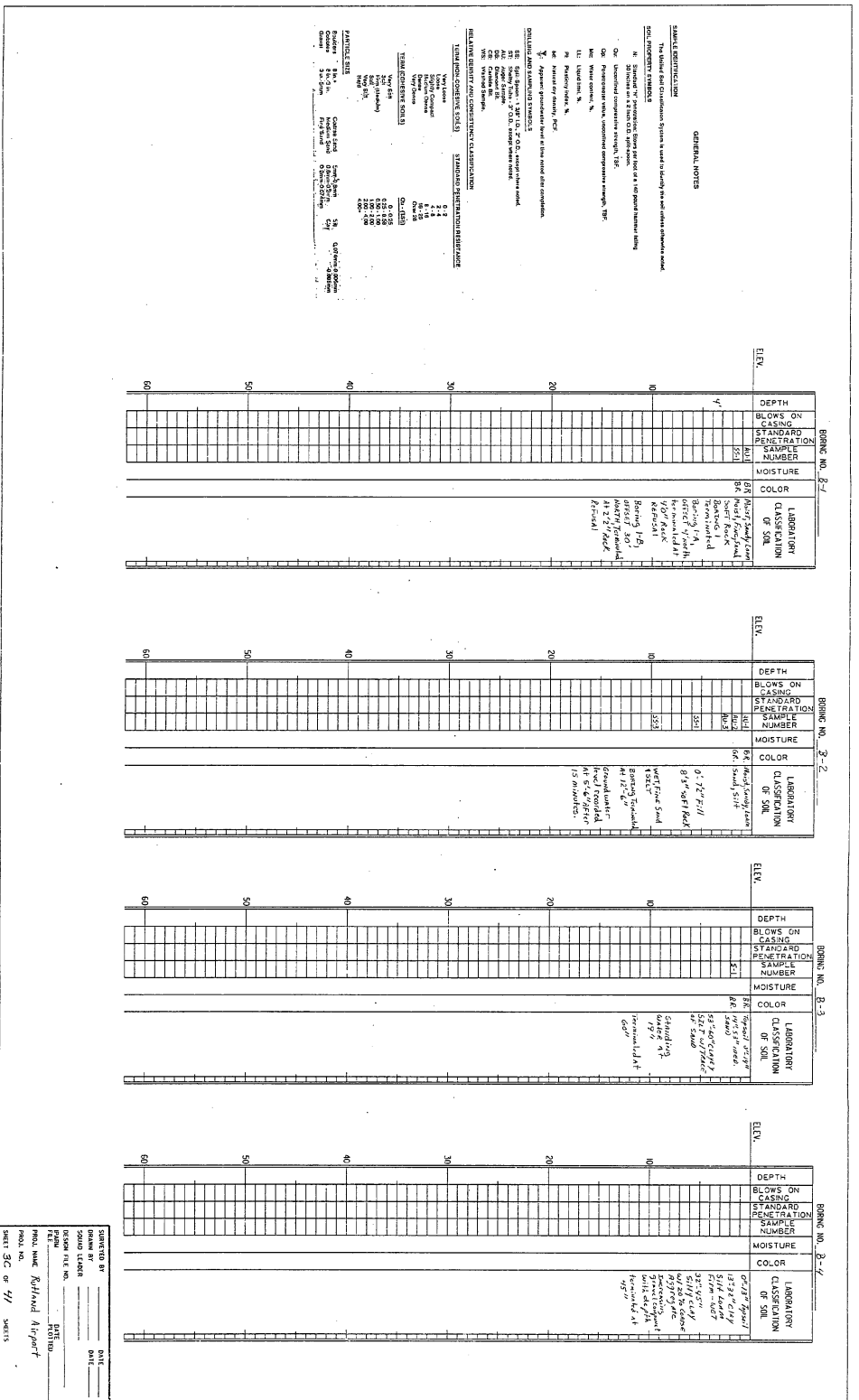
- V.A.O.T. STANDARD AP-2 LIGHTING & ELECTRIC DETAILS
- V.A.O.T. STANDARD AP-3 MISCELLANEOUS AIRPORT DETAILS
- V.A.O.T. STANDARD AP-9 TRANSPORTATION VAULT DETAILS
- V.A.O.T. STANDARD AP-10 RUNWAY MARKING DETAILS
- V.A.O.T. STANDARD AP-11 TAXIWAY AND APRON MARKING DETAILS
- V.A.O.T. STANDARD AP-12 SIGN SYSTEMS
- V.A.O.T. STANDARD D-11 FLUSHING BINS
- V.A.O.T. STANDARD E-113 REGULATORY SIGNS
- V.A.O.T. STANDARD F-2 CHAIN LINK FENCE

THE FOLLOWING FAA ADVISORY CIRCULARS ARE TO BE REFERRED TO AND APPLIED WHEN APPLICABLE:

- F.A.A. AC150/5370-20 OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION
- F.A.A. AC150/5370-10A STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS
- F.A.A. AC150/5345-44E SPECIFICATIONS FOR TAXIWAY AND RUNWAY SIGNS



SEAL 	
PROJECT NO. 7804	CHECKED BY: L.C.
Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017	
NOT TO SCALE DATE: AUG. 23, 1993	DRAWN BY: D.W.
RUTLAND STATE AIRPORT CLARENDON, VERMONT TAXIWAY E INDEX AND STANDARD DRAWINGS	
DRAWING NO. G2	
SHEET 3 OF 41	



BORING NO. B-5

ELEV.	DEPTH	BLOWS ON CASING	STANDARD PENETRATION	SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
							0'-9" Top Soil 9" 31" clay, silt, loam 31" 36" silt loam w/ 20% GRAVEL INCREASING gravel content with depth Hole terminated at 36" water at 35"
	10						
	20						
	30						
	40						
	50						
	60						

BORING NO. B-6

ELEV.	DEPTH	BLOWS ON CASING	STANDARD PENETRATION	SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
							NO INFORMATION AVAILABLE
	10						
	20						
	30						
	40						
	50						
	60						

BORING NO. B-7

ELEV.	DEPTH	BLOWS ON CASING	STANDARD PENETRATION	SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
	5		55-1				Moist sand silt 0" - 9"
	32		55-2				BR 9" 2' 4" moist Fine to coarse Sandy silt
	50		55-3				2' 4" to 4' moist, very fine to Brown fine sandy silt with gravel
	10						
	20						
	30						
	40						
	50						
	60						

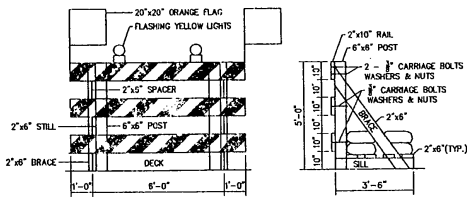
BORING NO. B-8

ELEV.	DEPTH	BLOWS ON CASING	STANDARD PENETRATION	SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
	5		55-4				BR Moist sand silt 11" to 2'-0"
			55-4B				WET fine sand silt trace of coarse sand
	19		55-2				AR 2'-4' WET dense sand trace of silt
	22		55-3				BR 4'-6' WET dense sand trace of silt
	33		55-4				6'-8' WET dense sand trace of silt
	62						BR 8'-10' WET dense sand trace of silt fractured rock gray
	10						
	20						
	30						
	40						
	50						
	60						

BORING NO. B-9

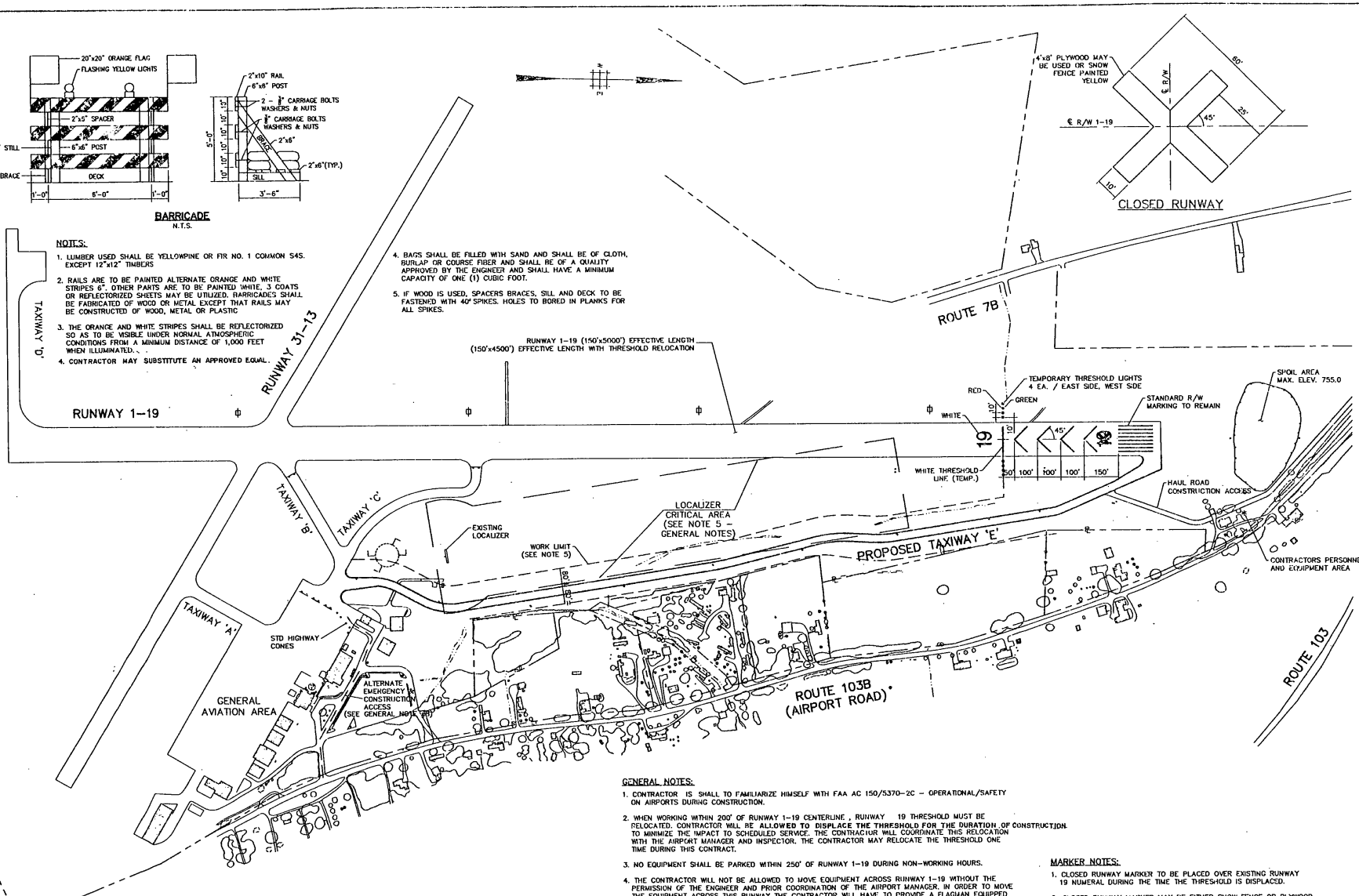
ELEV.	DEPTH	BLOWS ON CASING	STANDARD PENETRATION	SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
	7		55-5A				BR Moist sand silt
			55-5B				BR 9'-2' moist compact fine sand silt fractured rock
	22		55-2				BR 2'-4' dense sand silt fractured rock
	32		55-3				BR Very dense fine sand silt fractured rock 4'-6'
	26		55-4				BR 6'-8' very dense fine sand silt fractured rock
	50		55-5				OR 8'-8' 3" moist very dense fine sand silt fractured rock
	10						
	20						
	30						
	40						
	50						
	60						

SURVEYED BY _____ DATE _____
 DRAWN BY _____ DATE _____
 SQUAD LEADER _____
 DESIGN FILE NO. _____
 IPARM FILE _____ DATE PLOTTED _____
 PROJ. NAME Rutland Airport
 PROJ. NO. _____
 SHEET 30 of 41 SHEETS



NOTES:

1. LUMBER USED SHALL BE YELLOWPINE OR FIR NO. 1 COMMON S4S, EXCEPT 12"x12" TIMBERS
2. RAILS ARE TO BE PAINTED ALTERNATE ORANGE AND WHITE STRIPES 6". OTHER PARTS ARE TO BE PAINTED WHITE, 3 COATS OR REFLECTORIZED SHEETS MAY BE UTILIZED. BARRICADES SHALL BE FABRICATED OF WOOD, METAL OR PLASTIC
3. THE ORANGE AND WHITE STRIPES SHALL BE REFLECTORIZED SO AS TO BE VISIBLE UNDER NORMAL ATMOSPHERIC CONDITIONS FROM A MINIMUM DISTANCE OF 1,000 FEET WHEN ILLUMINATED.
4. CONTRACTOR MAY SUBSTITUTE AN APPROVED EQUAL.
4. BAGS SHALL BE FILLED WITH SAND AND SHALL BE OF CLOTH, BURLAP OR COARSE FIBER AND SHALL BE OF A QUALITY APPROVED BY THE ENGINEER AND SHALL HAVE A MINIMUM CAPACITY OF ONE (1) CUBIC FOOT.
5. IF WOOD IS USED, SPACERS BRACES, SILL AND DECK TO BE FASTENED WITH 40# SPIKES. HOLES TO BORED IN PLANKS FOR ALL SPIKES.



GENERAL NOTES:

1. CONTRACTOR SHALL TO FAMILIARIZE HIMSELF WITH FAA AC 150/5370-2C - OPERATIONAL/SAFETY ON AIRPORTS DURING CONSTRUCTION.
2. WHEN WORKING WITHIN 200' OF RUNWAY 1-19 CENTERLINE, RUNWAY 19 THRESHOLD MUST BE RELOCATED. CONTRACTOR WILL BE ALLOWED TO DISPLACE THE THRESHOLD FOR THE DURATION OF CONSTRUCTION TO MINIMIZE THE IMPACT TO SCHEDULED SERVICE. THIS CONTRACTOR WILL COORDINATE THIS RELOCATION WITH THE AIRPORT MANAGER AND INSPECTOR. THE CONTRACTOR MAY RELOCATE THE THRESHOLD ONE TIME DURING THIS CONTRACT.
3. NO EQUIPMENT SHALL BE PARKED WITHIN 250' OF RUNWAY 1-19 DURING NON-WORKING HOURS.
4. THE CONTRACTOR WILL NOT BE ALLOWED TO MOVE EQUIPMENT ACROSS RUNWAY 1-19 WITHOUT THE PERMISSION OF THE ENGINEER AND PRIOR COORDINATION OF THE AIRPORT MANAGER. IN ORDER TO MOVE THE EQUIPMENT ACROSS THIS RUNWAY THE CONTRACTOR WILL HAVE TO PROVIDE A FLAGMAN EQUIPPED WITH A RADIO CAPABLE OF COMMUNICATING WITH AIRCRAFT ON UNICOM FREQUENCY OF 122.8 MHZ.
5. ANY WORK THAT WILL REQUIRE THE CONTRACTOR TO ENTER THE LOCALIZER CRITICAL AREA WILL REQUIRE PRIOR NOTIFICATION TO THE AIRPORT MANAGER AND FAA. WORK TO BE COORDINATED WITH THE FAA.
6. DISTANCE REMAINING SIGNS ARE TO BE SUFFICIENTLY LOCKED OUT SO AS NOT TO CONVEY TO PILOTS WRONG INFORMATION DURING THE DURATION THAT THE DISPLACED THRESHOLD IS IN USE.
7. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL ROADS ON SITE WHICH HE MAY USE DURING CONSTRUCTION.
8. CONTRACTOR TO MEET WITH THE AIRPORT MANAGER TO DEVELOP A CONSTRUCTION VEHICLE TRAFFIC PLAN PRIOR TO BEGINNING PROJECT.
9. CONTRACTOR WILL SUBMIT TO THE VDOT & THE AIRPORT MANAGER A LISTING OF ALL CONSTRUCTION EQUIPMENT TO BE USED ON THE SITE. INCLUDED WILL BE THE HEIGHT OF EACH PIECE OF EQUIPMENT.

MARKER NOTES:

1. CLOSED RUNWAY MARKER TO BE PLACED OVER EXISTING RUNWAY 19 NUMERAL DURING THE TIME THE THRESHOLD IS DISPLACED.
2. CLOSED RUNWAY MARKER MAY BE EITHER SNOW FENCE OR PLYWOOD PAINTED YELLOW AND SECURELY FASTENED IN PLACE. MATERIAL TO BE PROPERTY OF AIRPORT MAINTENANCE DIVISION UPON COMPLETION OF PROJECT. CONTRACTOR TO CONTACT RESIDENT ENGINEER.
3. COST OF FLAGGING AND MAINTAINING THE CLOSED RUNWAY MARKER IS CONSIDERED NECESSARY AND INCIDENTAL TO CONSTRUCTION AND IS NOT A SEPARATE PAY ITEM.

LEGEND:

- ⊕ EXISTING DISTANCE REMAINING SIGN
- ▬ LIGHTED BARRICADE IN ACCORDANCE WITH AC 150/5340-1F CHG 1

NOTES:

1. EIGHT TEMPORARY THRESHOLD LIGHTS ARE TO BE INSTALLED AS SHOWN.
2. EACH LIGHT TO BE BATTERY OPERATED, STEADY BURNING W/180° RED/GREEN LENS AS MANUFACTURED, BY WHELAN ENGINEERING (DEEP RIVER, CT) OR EQUAL.
3. THE CONTRACTOR SHALL FURNISH ALL BATTERIES TO BE USED DURING THE CONSTRUCTION PERIOD.
4. THE CARE AND MAINTENANCE OF THE TEMPORARY LIGHTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE MAINTENANCE DIVISION OF THE VDOT SHALL RETAIN POSSESSION OF THE LIGHTS AFTER COMPLETION OF CONSTRUCTION CONTACT RESIDENT ENGINEER.
6. THE COST OF THE TEMPORARY LIGHTS AND BATTERIES IS NOT INCLUDED AS A SEPARATE PAY ITEM. THIS WORK IS NECESSARY AND INCIDENTAL TO THE COST OF THE PROJECT.
7. THE CONTRACTOR MAY AT HIS OPTION, INSTALL 8 MEDIUM INTENSITY THRESHOLD LIGHTS, CONFORMING TO FAA SPEC. L-8616 IN USE OF BATTERY OPERATED LIGHTS.
8. LIGHTS FOR SIGNS AND OR TAXIWAYS AT T/W B AND C SHALL BE DISENGAGED FOR THE DURATION OF THE TIME THESE TAXIWAYS ARE CLOSED TO AIR TRAFFIC. LIGHTS AT THE DISPLACED THRESHOLD AREA ARE TO BE DISENGAGED.
9. ALL MARKINGS IN THE RELOCATED THRESHOLD AREA ARE YELLOW EXCEPT THE THRESHOLD BAR WHICH IS WHITE.

SEAL

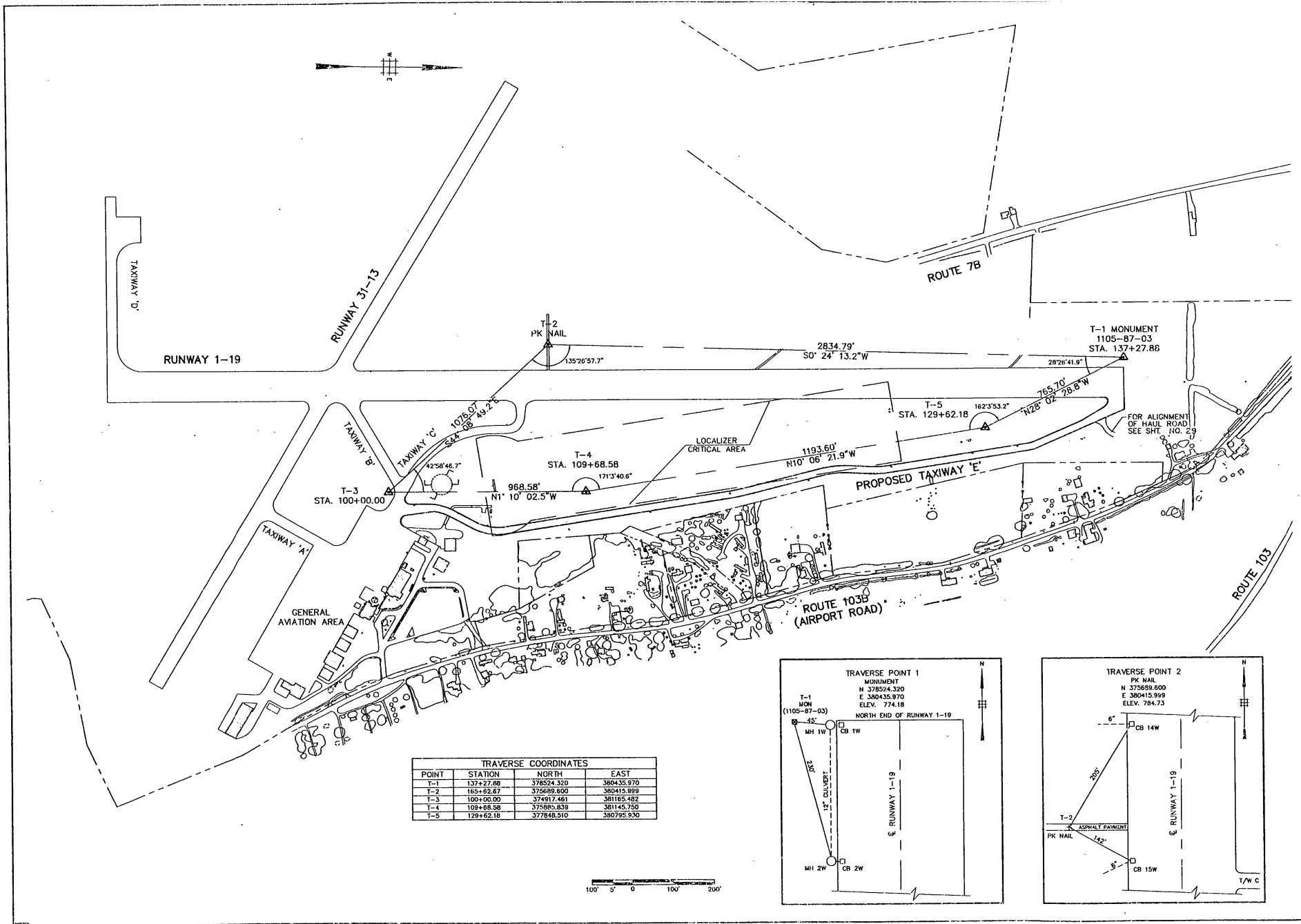
Ervidyne Engineers, Inc.
41 East 42nd St. Suite 1015
New York, NY 10017

RUTLAND STATE AIRPORT
CLARENDON, VERMONT
TAXIWAY E
SAFETY PLAN

DRAWING NO. 001

SHEET 4 OF 77

PROJECT NO.	7804	DATE	AUG. 23, 1983	DESIGNED BY	F.S.	CHECKED BY	D.W.	DRAWN BY	D.W.	APPROVED BY	J.W.
PROJECT		DATE		DESIGNED BY		CHECKED BY		DRAWN BY		APPROVED BY	



SEA

DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 F.S. DATE: AUG. 23, 1983
 D.W. DATE: _____

PROJECT NO. 7804

Envirotyne Engineers, Inc.
 41 East 42nd St. Suits 1015
 New York, NY 10017

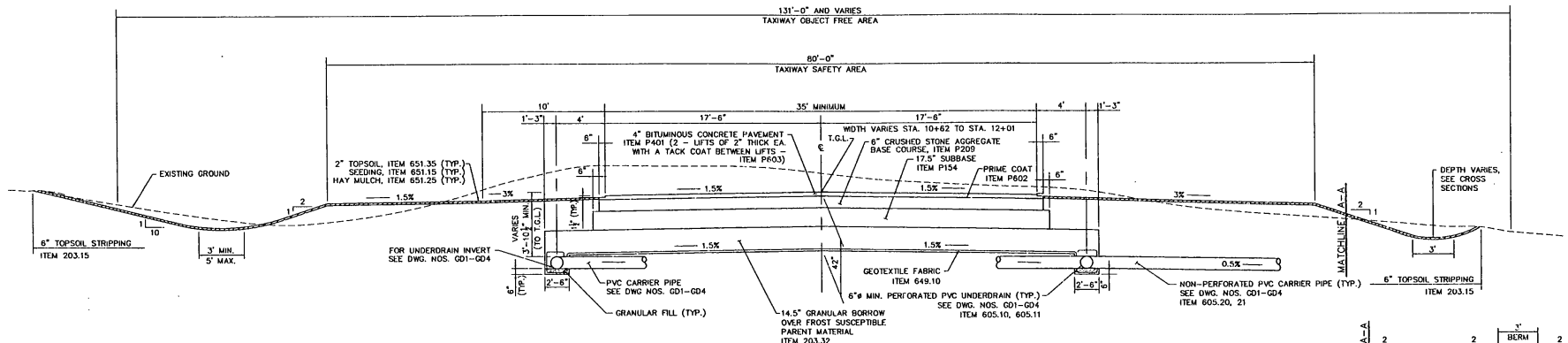
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RUTLAND STATE AIRPORT
 CLARENDON, VERMONT

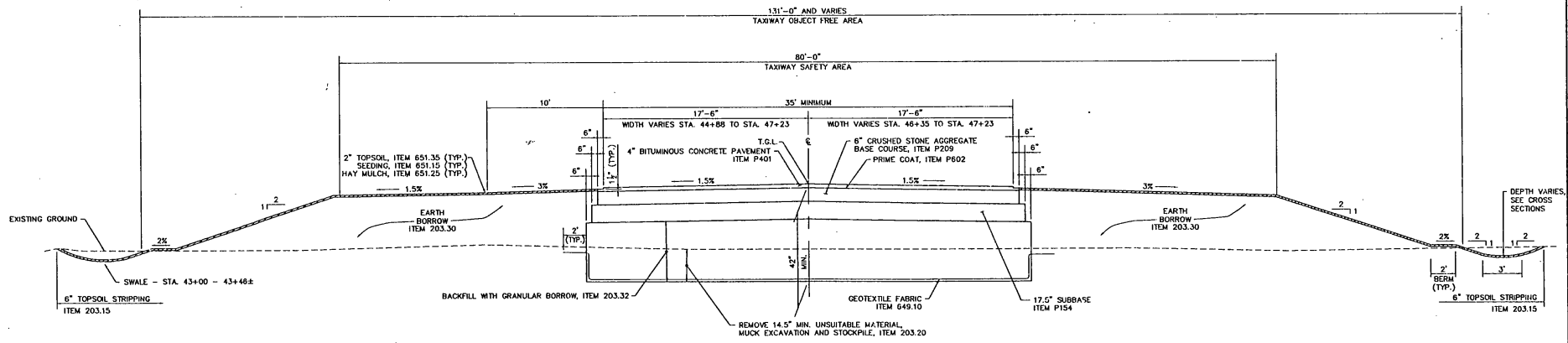
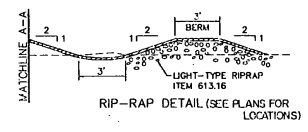
TAXIWAY E
 HORIZONTAL AND
 VERTICAL CONTROL

DRAWING NO. **01**

SHEET 5 OF 41



TYPICAL SECTION - CUT
 STATION 11+00 - 21+50
 STATION 26+50 - 28+50
 STATION 33+50 - 39+50
 STATION 44+00 - 45+00



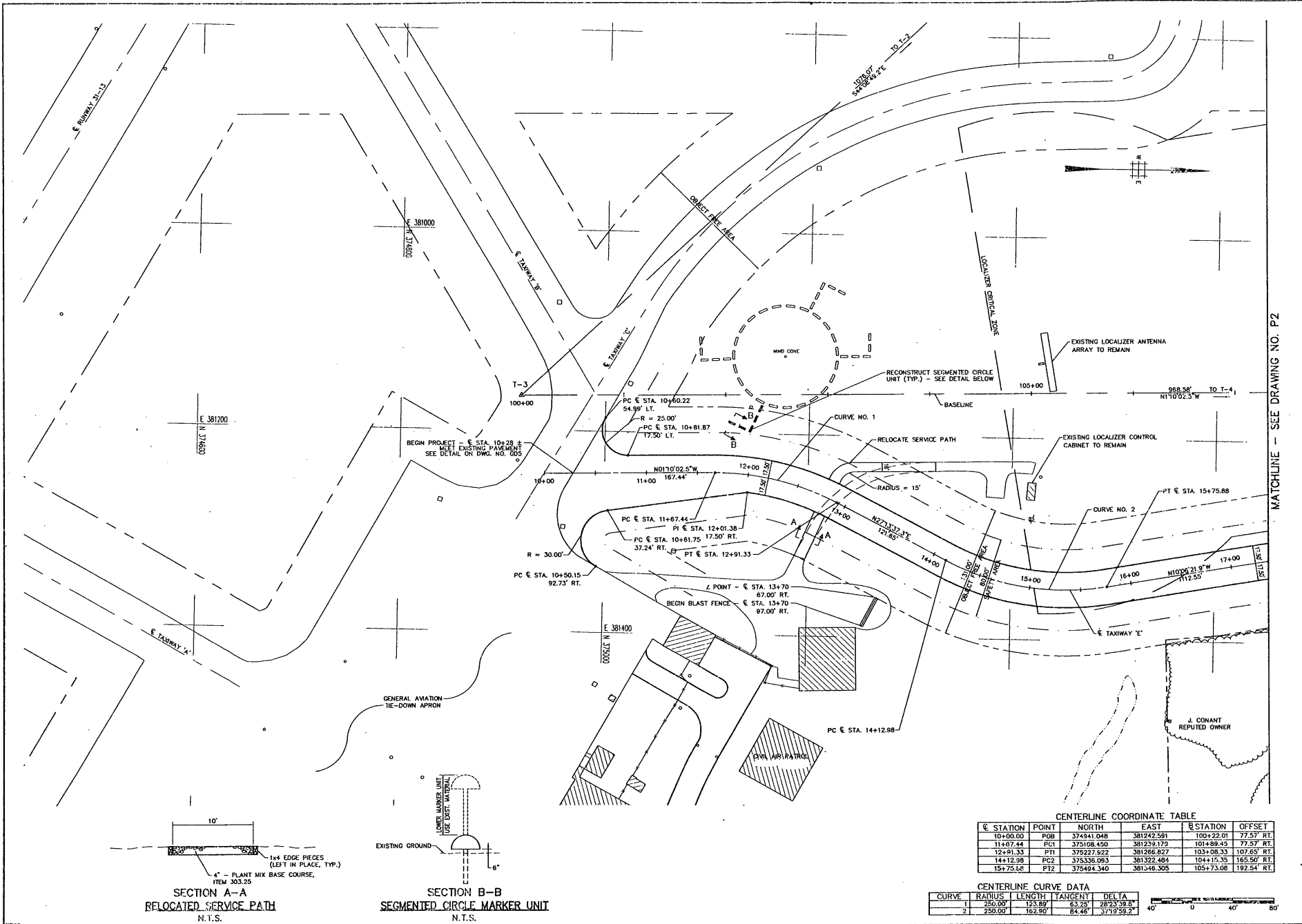
TYPICAL SECTION - FILL
 STATION 21+50 - 26+50
 STATION 28+50 - 33+50
 STATION 39+50 - 44+00
 STATION 45+00 - 47+23

NOTES:

1. FOR UNDERDRAIN DETAIL AND LOCATIONS SEE TABLE ON DWG. NO. D01.
2. FOR SEDIMENTATION BASIN LOCATIONS SEE DWG. NOS. GD1-GD4 AND D02.
3. REMOVAL OF UNSUITABLE MATERIAL AND 6" TOPSOIL STRIPPING IS CONSIDERED MUCK EXCAVATION AND COMMON EXCAVATION.
4. FOR DEVIATIONS FROM THE TYPICAL SECTIONS, SEE CROSS SECTIONS.
5. ALL EXCAVATED MATERIAL TO BE STOCK PILED ACCORDING TO HYDRIC SOIL AND TOP SOIL OR AS DIRECTED BY ENGINEER.

SEAL
[Signature]

PROJECT NO.	7804	DATE	AUG. 23, 1993	DRAWN BY	A.T.B.	CHECKED BY	L.G.
Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017							
RUTLAND STATE AIRPORT CLARENDON, VERMONT TAXIWAY E							
TYPICAL SECTION							
DRAWING NO. TS1							
SHEET 6 OF 77							



SECTION A-A
RELOCATED SERVICE PATH
N.T.S.

SECTION B-B
SEGMENTED CIRCLE MARKER UNIT
N.T.S.

CENTERLINE COORDINATE TABLE

STATION	POINT	NORTH	EAST	STATION	OFFSET
10+00.00	POB	374441.048	381242.561	10+12.98	77.57' RT.
11+07.44	PT1	375108.450	381239.179	10+89.45	77.57' RT.
12+81.33	PT1	375227.922	381286.827	10+08.33	107.65' RT.
14+12.98	PC2	375336.093	381322.484	10+15.35	165.50' RT.
15+75.16	PT2	375494.340	381346.305	10+13.68	192.54' RT.

CENTERLINE CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	250.00'	125.89'	63.25'	28°23'35.9"
2	250.00'	162.90'	84.40'	37°19'59.2"

MATCHLINE - SEE DRAWING NO. P2

SEAL

Envirodyns Engineers, Inc.
41 East 42nd St. Suite 1015
New York, NY 10017

PROJECT NO. 7804

DATE: AUG. 23, 1983

DRAWN BY: D.W.

CHECKED BY: L.G.

SCALE: 1" = 40'

RUTLAND STATE AIRPORT
CLARENDON, VERMONT

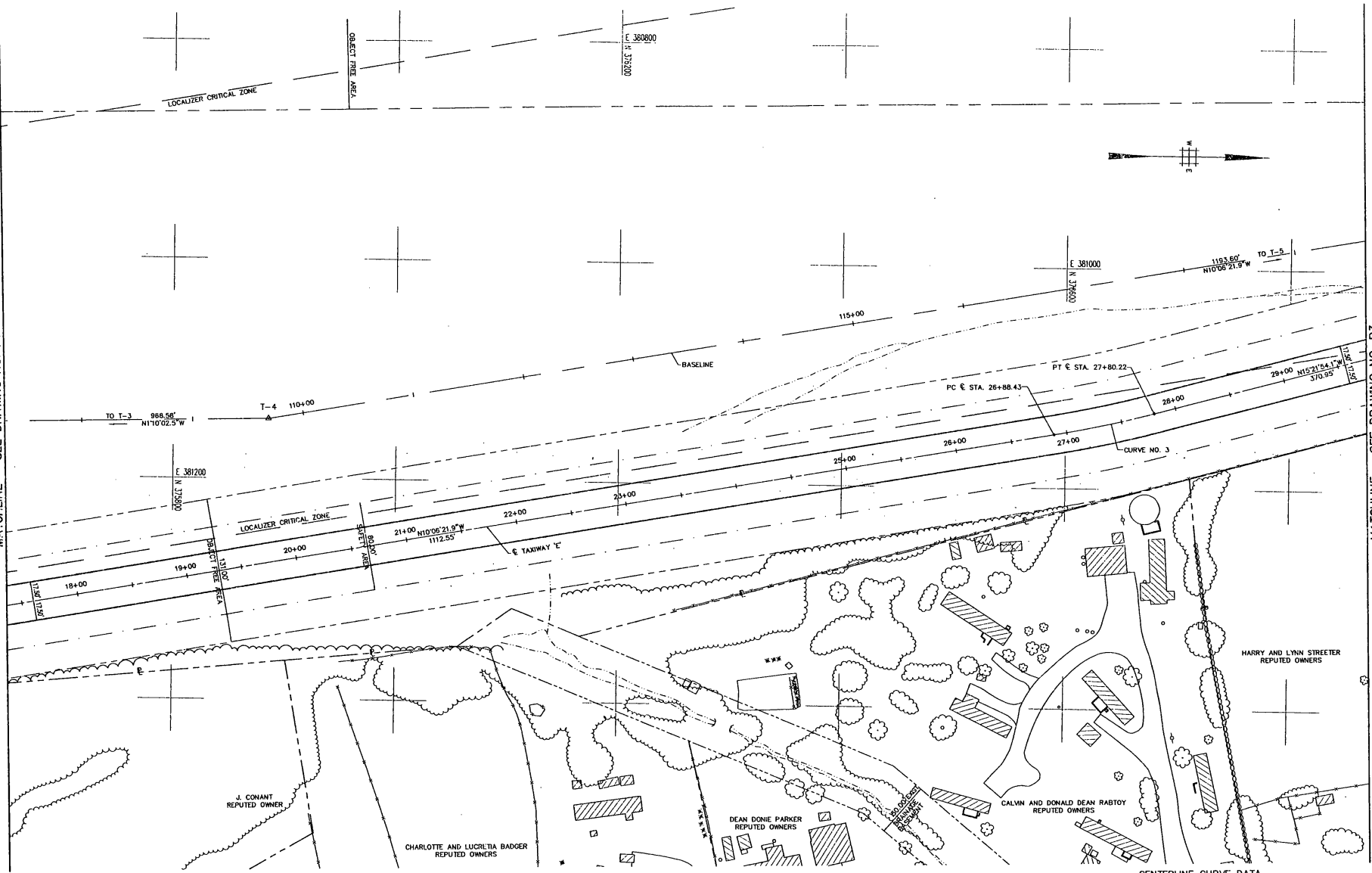
TAXIWAY E
SITE PLAN

DRAWING NO. P1

SHEET 7 OF 77

MATCHLINE - SEE DRAWING NO. P1

MATCHLINE - SEE DRAWING NO. P3

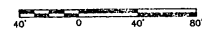


CENTERLINE CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
3	1000.00'	91.79'	45.84'	051°32.2'

CENTERLINE COORDINATE TABLE

CURVE	STATION	POINT	NORTH	EAST	STATION	OFFSET
3	26+88.43	PC3	376589.615	38151.083	116+80.32	126.75' RT.
	27+80.22	PT3	376679.131	38130.656	117+52.18	124.54' RT.



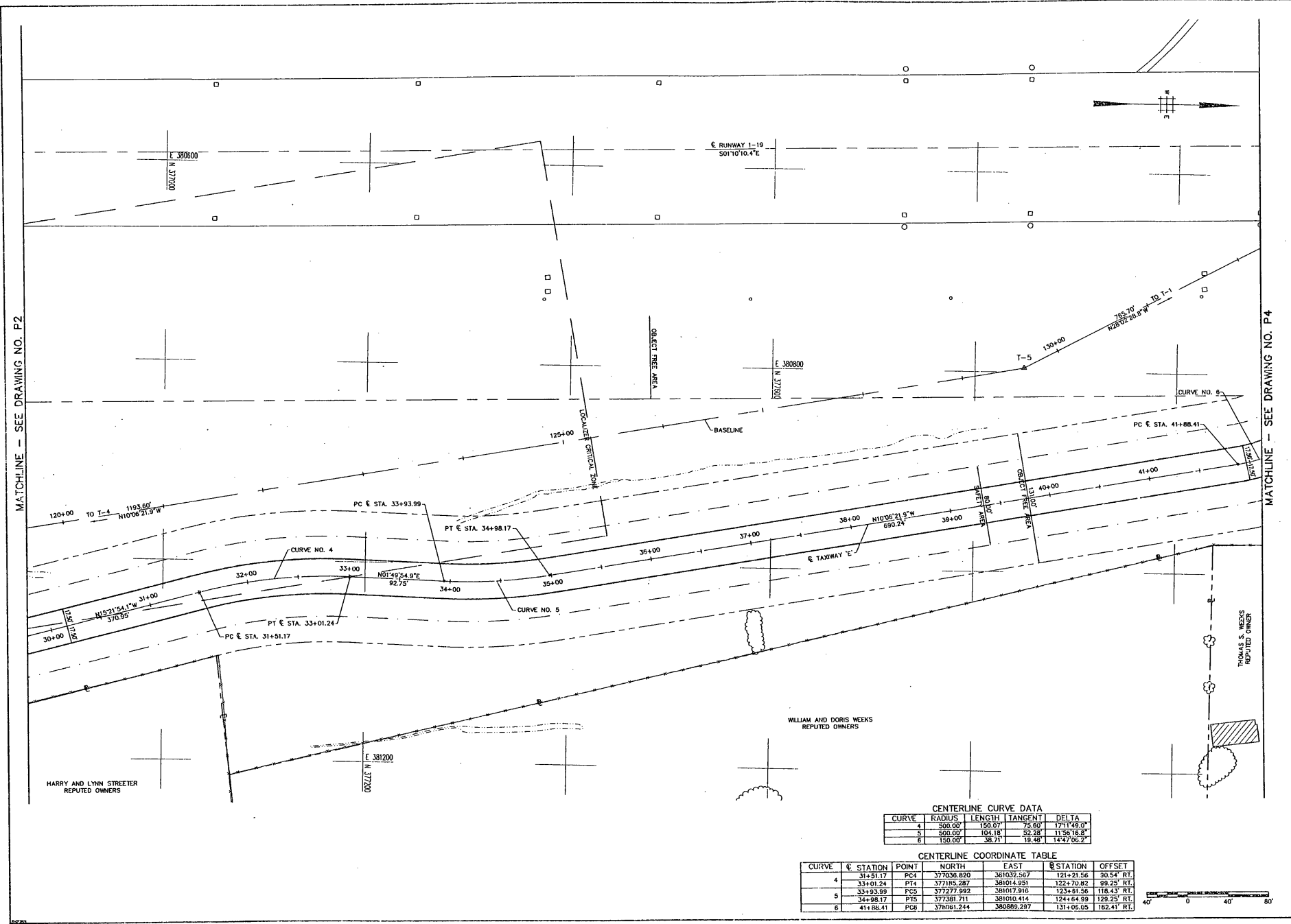
SEAL

[Signature]

PROJECT NO.	7804
PROJECT DESCRIPTION	RUTLAND STATE AIRPORT CLARENDON, VERMONT TAXIWAY E SITE PLAN
DATE	AUG. 23, 1993
SCALE	1" = 40'
DESIGNED BY	F.S.
DRAWN BY	D.W.
CHECKED BY	L.C.

PROJECT NO. 7804
 Envirodyne Engineers, Inc.
 41 East 42nd St. Suite 1015
 New York, NY 10017

DRAWING NO. **P2**
 SHEET 8 OF 11



MATCHLINE - SEE DRAWING NO. P2

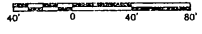
MATCHLINE - SEE DRAWING NO. P4

CENTERLINE CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
4	500.00'	150.07'	75.80'	171°14.9°
5	500.00'	104.18'	52.28'	113°26'18.8"
6	150.00'	38.71'	19.40'	144°47'06.2"

CENTERLINE COORDINATE TABLE

CURVE	STATION	POINT	NORTH	EAST	STATION	OFFSET
4	31+51.17	PC4	377036.820	381032.347	121+21.56	20.34' RT.
	33+01.24	PT4	377185.287	381014.931	122+70.82	89.25' RT.
	33+93.89	PCS	377277.992	381017.916	123+61.56	118.43' RT.
5	34+98.17	PT5	377381.711	381010.414	124+64.99	128.25' RT.
	41+88.41	PC6	378781.244	380860.297	131+05.05	182.41' RT.



SEA

DRAWING NO. **P3**

SHEET 9 OF 77

RUTLAND STATE AIRPORT
CLARENDON, VERMONT

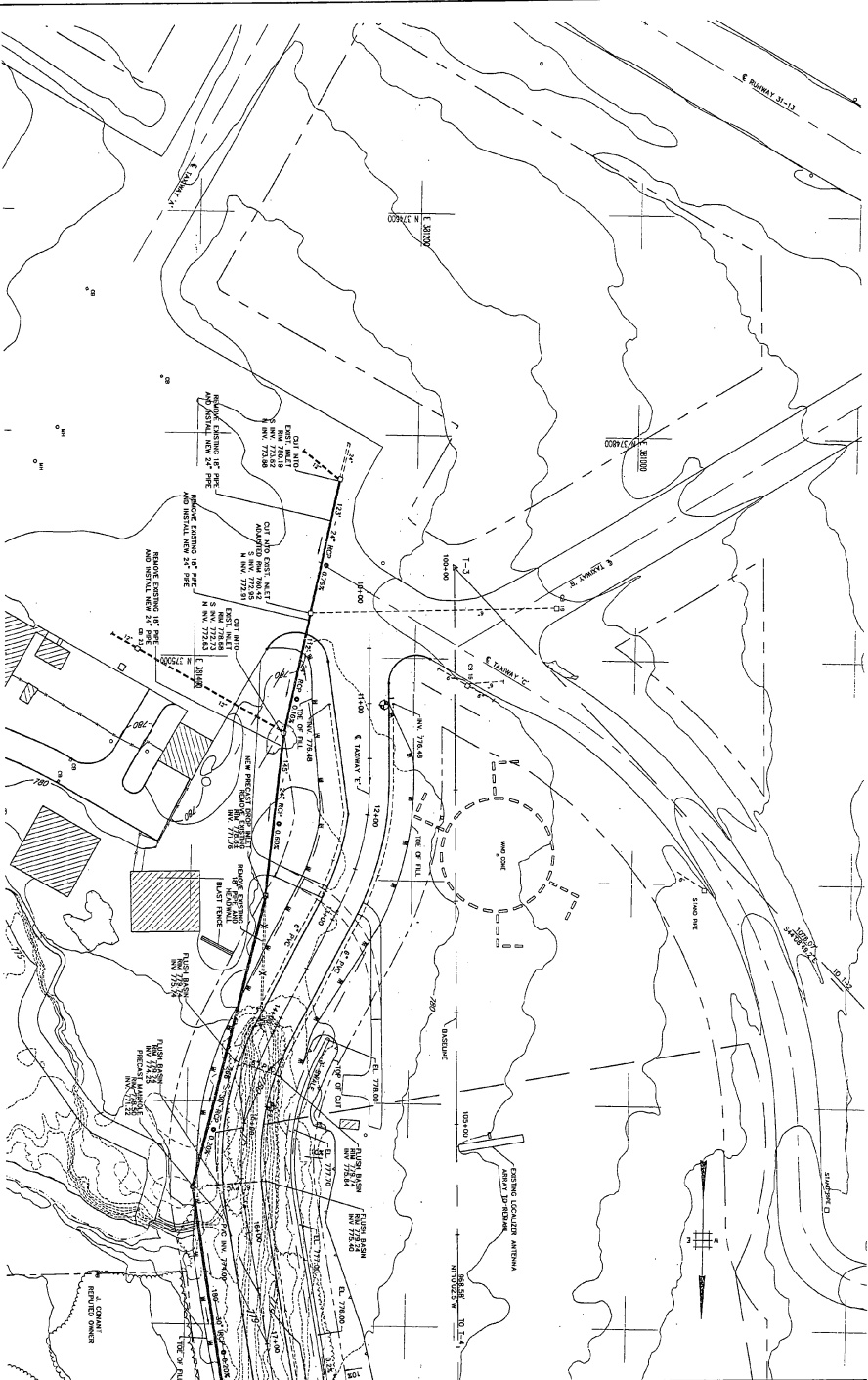
TAXIWAY E
SITE PLAN

Envirowdyne Engineers, Inc.
41 East 42nd St. Suite 1015
New York, NY 10017

DRAWN BY: [Signature]
CHECKED BY: [Signature]
DATE: AUG. 23, 1993
SCALE: 1" = 40'

PROJECT NO. 7804

REVISION: [Table]



MATCHLINE - SEE DRAWING NO. GD2

- NOTES:
1. ALL P.C. UNDERDRAINS ARE RELOCATED EXCEPT FOR REMAINING CONCRETE PILES.
 2. FOR DATE OF UNDERDRAINS, SEE DWG. NO. SD-100.
 3. FOR PROPOSED UNDERDRAIN ELEVATIONS, SEE DWG. NO. SD-100.
 4. FOR PROPOSED PAVEMENT ELEVATIONS FROM STA. 10+20 TO STA. 12+50, SEE DWG. NO. GD3.

SHEET 11 OF 27
GD1

RUTLAND STATE AIRPORT
 CLARENDON, VERMONT
 TAXIWAY E
GRADING AND DRAINAGE PLAN



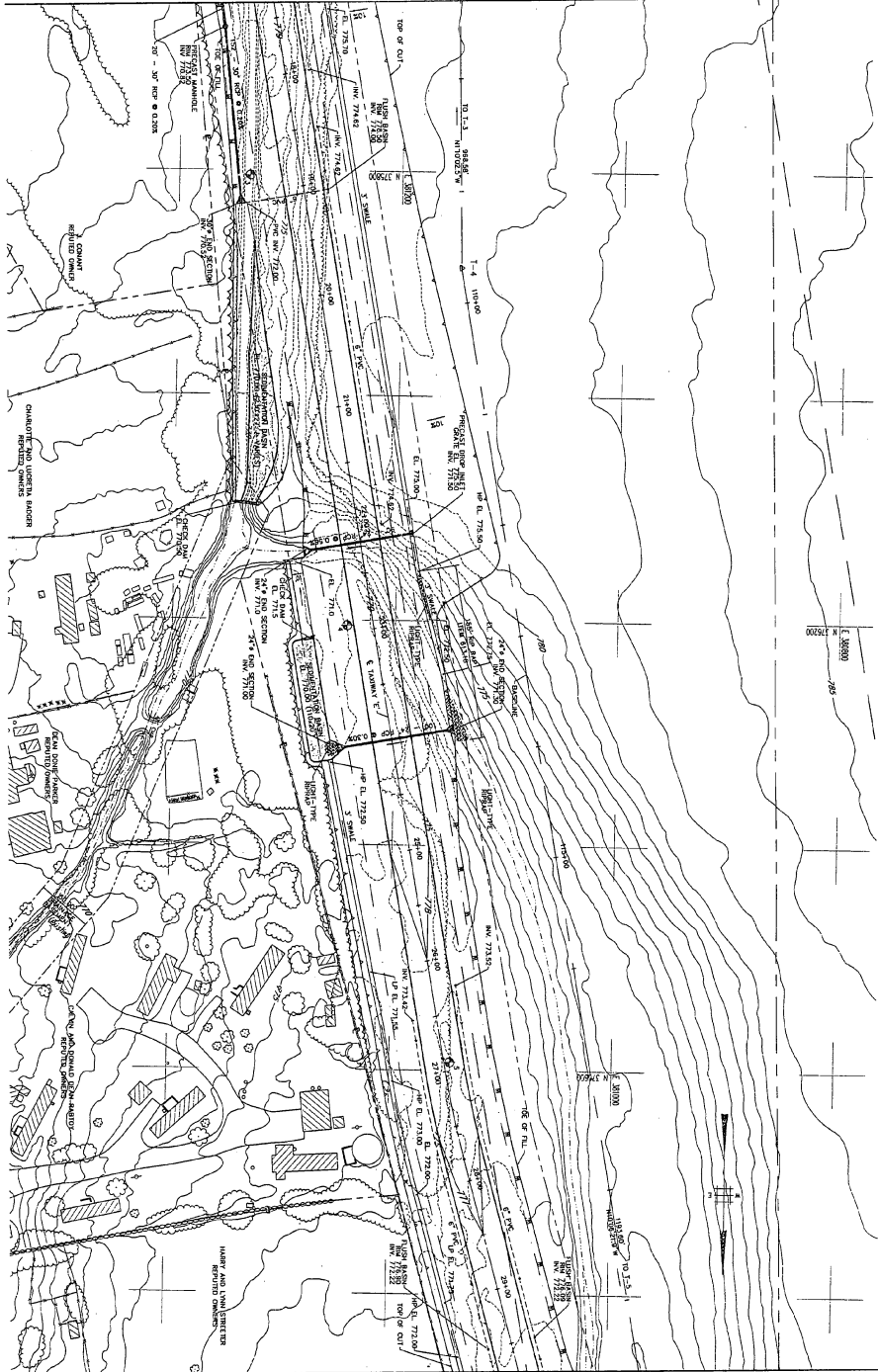
Envirodyne Engineers, Inc.
 41 East 42nd St. Suite 1015
 New York, NY 10017

PROJECT NO.	7804
DATE	AUG 23, 1993
DESIGNED BY	F.S.
CHECKED BY	D.W.
DATE	
SCALE	1" = 40'

SCALE: 1" = 40'
 DATE: AUG 23, 1993
 DESIGNED BY: F.S.
 CHECKED BY: D.W.

Handwritten signature

MATCHLINE - SEE DRAWING NO. GD1



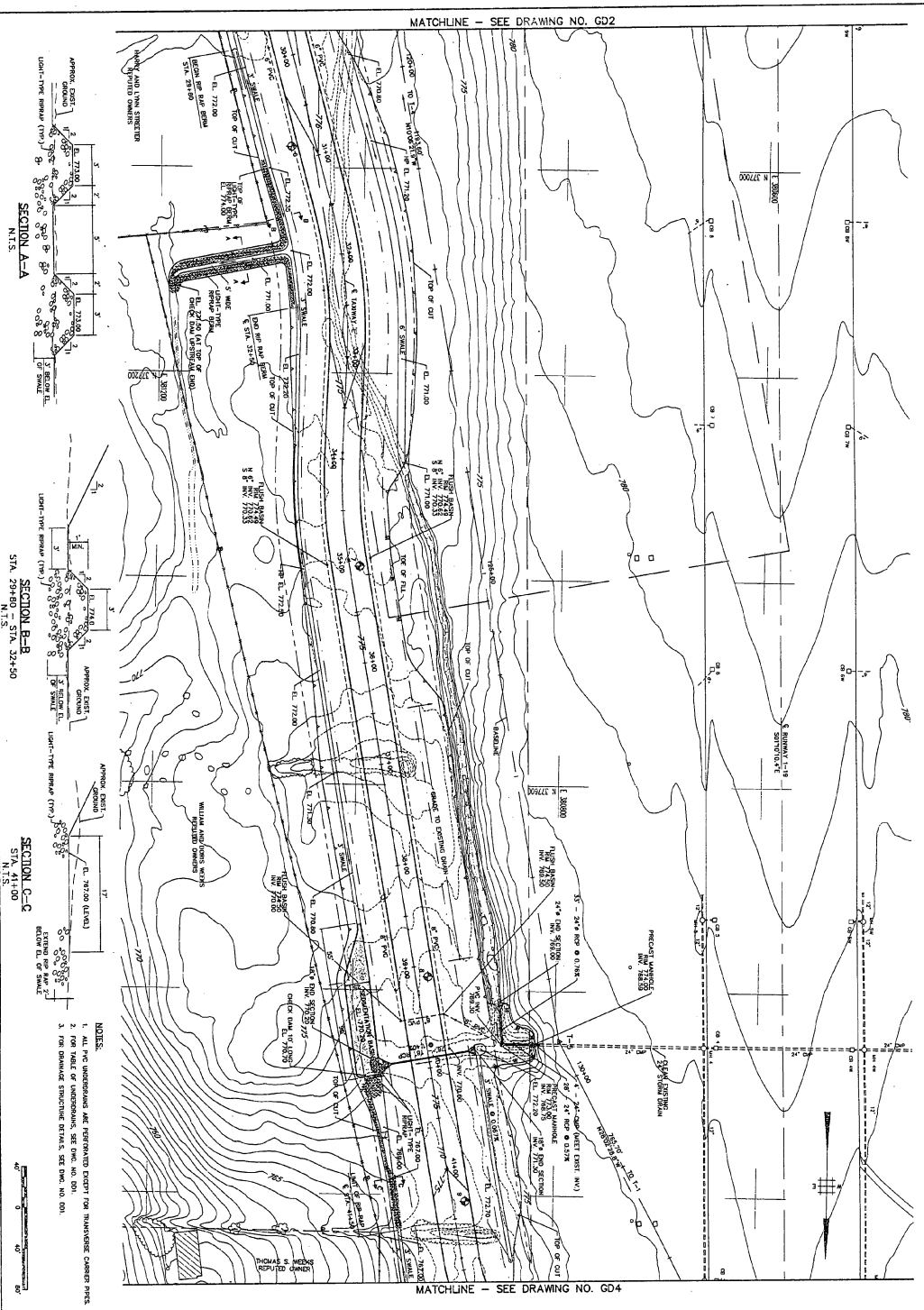
MATCHLINE - SEE DRAWING NO. GD3

- NOTES:
1. ALL P.C. UNDERBRIMS ARE REPROVED EXCEPT FOR TRANSVERSE CURBING PILES.
 2. FOR TABLE OF UNDERBRIMS, SEE SPEC. NO. 501.
 3. FOR DIMENSIONS, DIMENSIONAL DETAILS, SEE SPEC. NO. 501.

<p>RD 2</p> <p>GD2</p> <p>DRAWING NO.</p> <p>SHEET 17 OF 27</p>	<p>RUTLAND STATE AIRPORT</p> <p>CLARENDON, VERMONT</p> <p>TAXIWAY E</p> <p>GRADING AND DRAINAGE PLAN</p>	<p>Envirodyne Engineers, Inc.</p> <p>41 East 42nd St. Suite 1015</p> <p>New York, NY 10017</p>	<p>PROJECT NO.</p> <p>7804</p>	<p>SCALE: 1" = 40'</p> <p>DATE: AUG. 23, 1993</p>	<p>DESIGNED BY: F.P.</p> <p>DRAWN BY: D.W.</p> <p>CHECKED BY: L.G.</p>	<table border="1"> <tr> <th>REVISION</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISION	DESCRIPTION									<table border="1"> <tr> <th>DATE</th> <th>BY</th> <th>APP.</th> <th>DATE</th> <th>BY</th> <th>APP.</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	DATE	BY	APP.	DATE	BY	APP.																		
	REVISION	DESCRIPTION																																							
DATE	BY	APP.	DATE	BY	APP.																																				
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MATCHLINE - SEE DRAWING NO. GD2

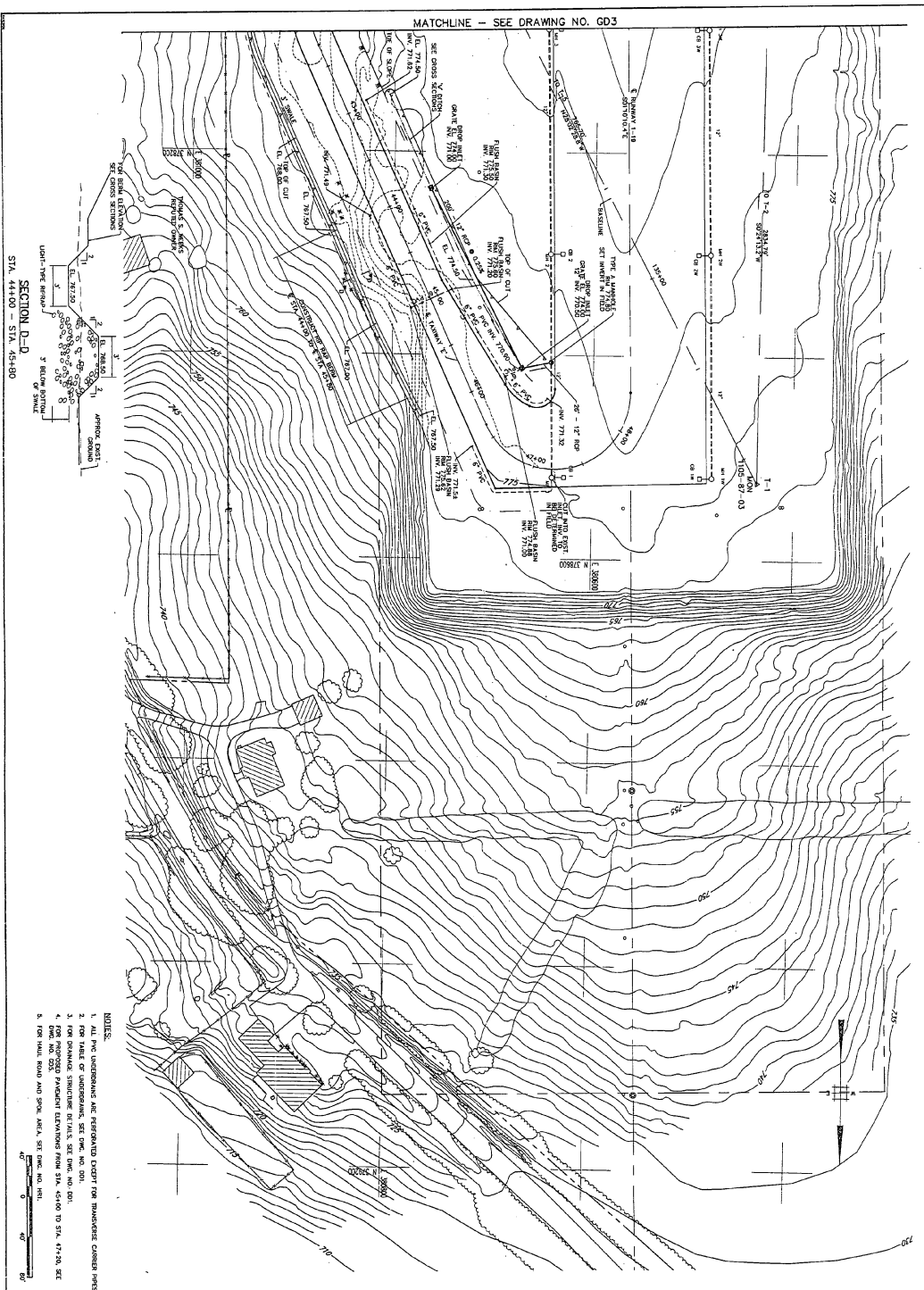
MATCHLINE - SEE DRAWING NO. GD4



NOTES:
 1. ALL THE UNDERDRAINS ARE REFERENCED EXCEPT FOR THOSE INDICATED OTHERWISE.
 2. FOR DRAINAGE STRUCTURE DETAILS, SEE DWG. NO. 001.



	RUTLAND STATE AIRPORT CLARENDON, VERMONT TAXIWAY E GRADING AND DRAINAGE PLAN	Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017	PROJECT NO. 7804	
	SCALE: 1" = 40' DATE: AUG 23, 1992	DESIGNED BY: F.S.	CHECKED BY: L.G.	

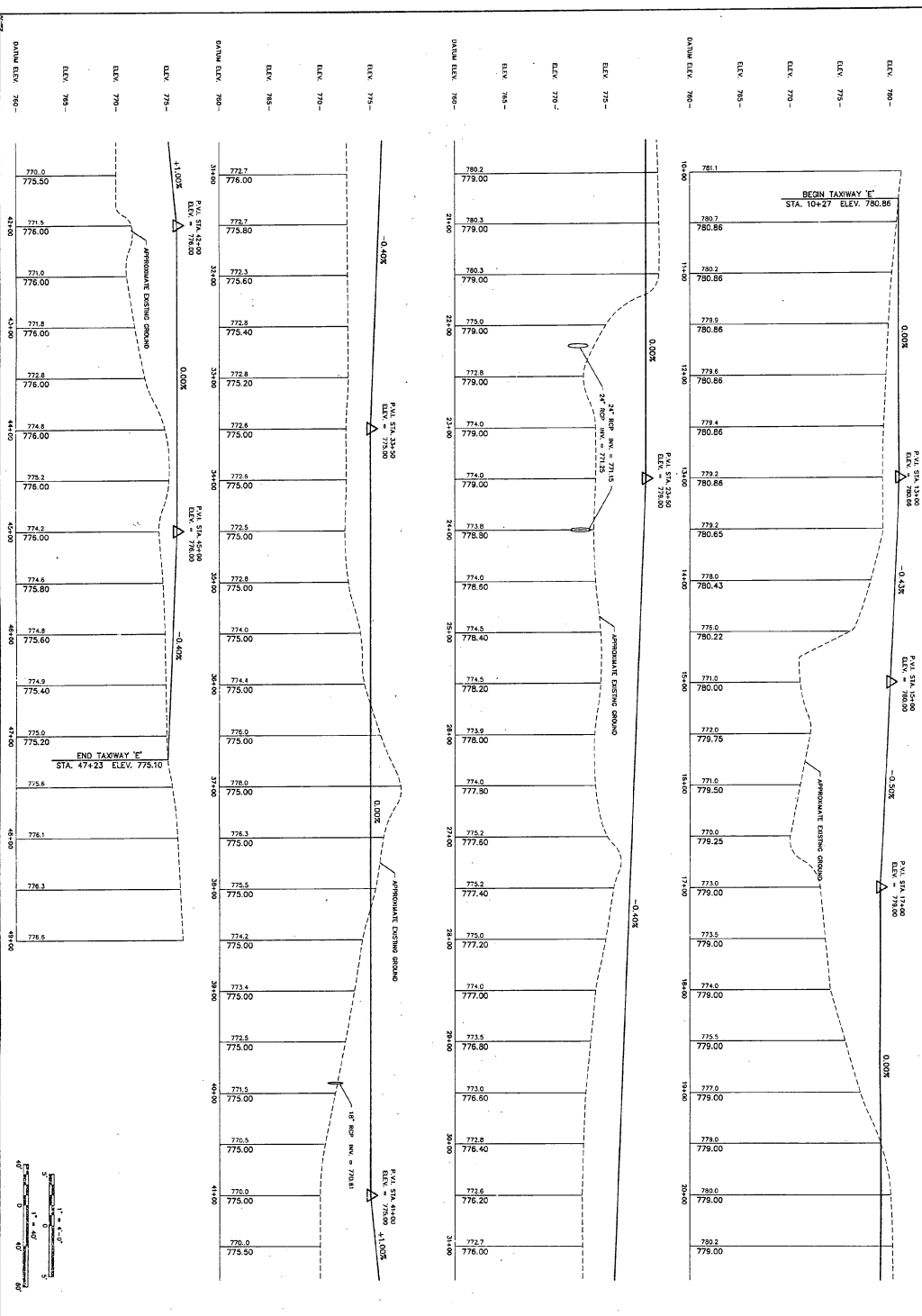
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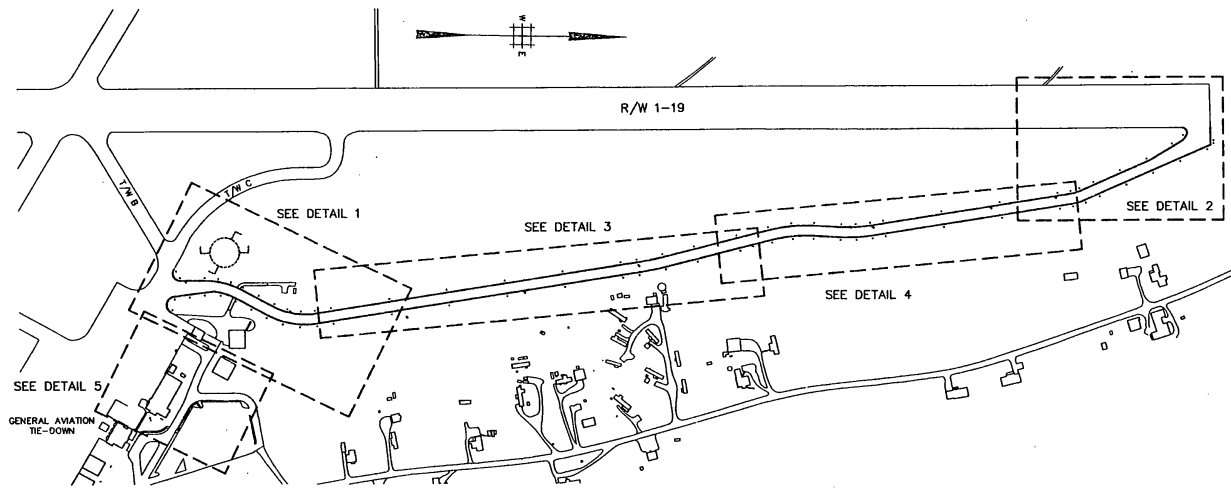
SECTION D-D
STA. 45180 - STA. 45380

- NOTES:
1. ALL THE DIMENSIONS ARE REFERENCED EXCEPT THE DIMENSIONED CORNER POINTS.
 2. THE PROPOSED TAXIWAY E IS TO BE CONSTRUCTED TO THE CENTERLINE OF THE TAXIWAY.
 3. FOR DIMENSIONS, DIMENSIONS OF TAXIWAY, SEE DRAWING NO. GD1.
 4. FOR DIMENSIONS, DIMENSIONS OF TAXIWAY, SEE DRAWING NO. GD2.
 5. FOR DIMENSIONS, DIMENSIONS OF TAXIWAY, SEE DRAWING NO. GD3.

	Rutland State Airport CLARENDON, VERMONT TAXIWAY E GRADING AND DRAINAGE PLAN		PROJECT NO. 7804	
	Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017		SCALE: 1" = 40' DATE: AUG. 23, 1993	
DRAWING NO. GD4	SHEET 1 OF 7	DESIGNED BY: F.S.	DRAWN BY: D.W.	CHECKED BY: L.G.
		REVISION NO.	DESCRIPTION	DATE



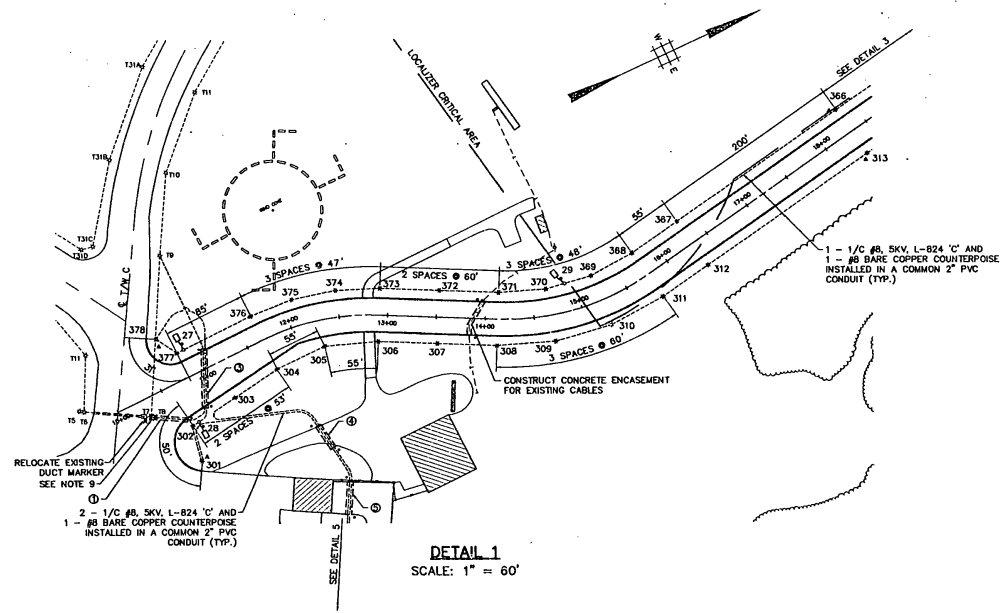
SHEET 15 OF 27 PR1 DRAWING NO.	RUTLAND STATE AIRPORT CLARENDON, VERMONT TAXIWAY E PROPOSED PROFILE	Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017	PROJECT NO. 7804	REVISIONS NO. DESCRIPTION DATE	DRAWN BY D.W.	CHECKED BY L.G.	RECORDED BY DATE
	SCALE: 1" = 40' HORIZ 1" = 4' VERT	DATE: AUG 23, 1993	RECORD NO.	DATE	DATE	DATE	DATE



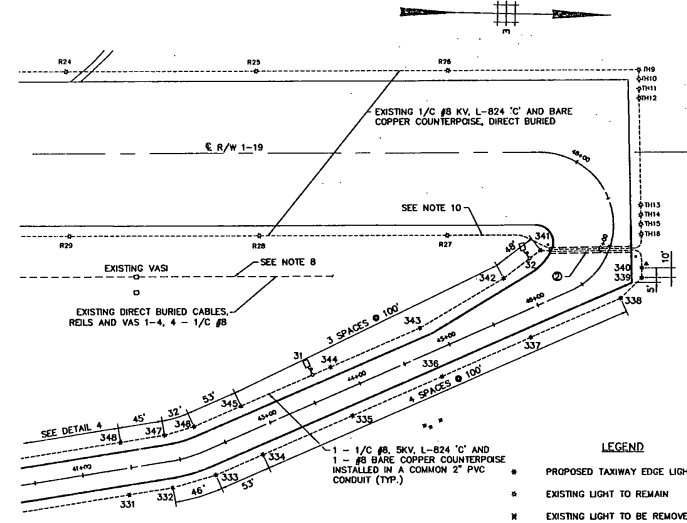
GENERAL LIGHTING PLAN
SCALE: 1" = 200'

GENERAL NOTES

1. T/W EDGE LIGHTS TO BE BASE MOUNTED UNITS. 24" IN HEIGHT, BLUE FIXTURE.
2. LAMP FIXTURE TO BE BLUE AND OF MEDIUM INTENSITY (6.6A, 30W).
3. ELECTRIC CIRCUITRY TO BE IN SERIES.
4. REFER TO VAOT STANDARD DRAWING AP-2 FOR BASE MOUNTED UNIT DETAILS, AND, CABLE AND SPLICE MARKERS. REFER TO VAOT STANDARD DRAWING AP-3 FOR DUCT BANK DETAILS.
5. REFER TO DRAWING L3 FOR TRENCH DETAILS.
6. MAXIMUM SPACING OF LIGHTS TO BE 200' O.C. DISTANCE FROM TAXIWAY PAVEMENT EDGE TO LIGHTS, 10'-0".
7. EXISTING R/W EDGE LIGHTS AND VASI TO REMAIN.
8. EXISTING REELS CABLES TO BE INSTALLED IN A NEW 4-WAY DUCT UNDER TAXIWAY AS DIRECTED BY THE ENGINEER.
9. REMOVE EXISTING TAXIWAY LIGHTS T7 AND T8. REMOVE EXISTING WIRING FROM TAXIWAY LIGHT T6 TO LIGHT T7 AND ABANDON EXISTING WIRING FROM LIGHT T8 TO LIGHT T9. PROVIDE NEW 1/C #8, SKV, L824 'C' CABLE AND #8 BARE COUNTERPOISE FROM LIGHT T6 TO LIGHT T9 VIA DUCT BANKS 1 AND 3, AND SPLICE AT LIGHTS T6 AND T9. CONNECT NEW TAXIWAY LIGHTS 301 THRU 378 CONSECUTIVELY IN SERIES.
10. ABANDON EXISTING WIRING FROM RUNWAY LIGHTS R27 TO THRESHOLD LIGHT TH16. PROVIDE NEW 1/C #8, SKV, L824 'C' CABLE AND #8 BARE COUNTERPOISE FROM LIGHT R27 TO THRESHOLD LIGHT TH16 VIA A NEW 4-WAY DUCTBANK AND SPLICE AT LIGHTS R27 AND TH16.
11. EXACT LOCATIONS OF ALL DUCT BANKS AND CABLE CONDUITS MUST BE APPROVED IN ADVANCE BY THE VAOT ELECTRICIAN CONTRACTOR TO CONTACT RESIDENT ENGINEER.



DETAIL 1
SCALE: 1" = 60'



DETAIL 2
SCALE: 1" = 60'

LEGEND

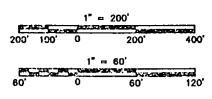
- PROPOSED TAXIWAY EDGE LIGHT
- EXISTING LIGHT TO REMAIN
- ✕ EXISTING LIGHT TO BE REMOVED OR RELOCATED
- ⊙ EXISTING DUCT MARKER TO REMAIN
- ✕ EXISTING DUCT MARKER TO BE REMOVED OR RELOCATED
- ⊠ TAXIWAY SIGN AND LIGHTING CONNECTION
- ▲ PROPOSED 5/8" x 6" COPPERCLAD GROUND ROD
- ▬ PROPOSED DUCT WITH CONDUIT AND MARKERS
- Ⓢ DUCT DESIGNATION - SEE DUCT SCHEDULE

DUCT SCHEDULE

- ① 2 WAY 4" CONCRETE ENCASED, 48 L.F. EXTENSION
- ② 4 WAY 4" CONCRETE ENCASED, 78 L.F.
- ③ 4 WAY 4" CONCRETE ENCASED, 61 L.F.
- ④ 4 WAY 4" CONCRETE ENCASED, 28 L.F.
- ⑤ 4 WAY 4" CONCRETE ENCASED, 35 L.F.
- ⑥ 4 WAY 4" CONCRETE ENCASED, 24 L.F.

CROSS REFERENCES

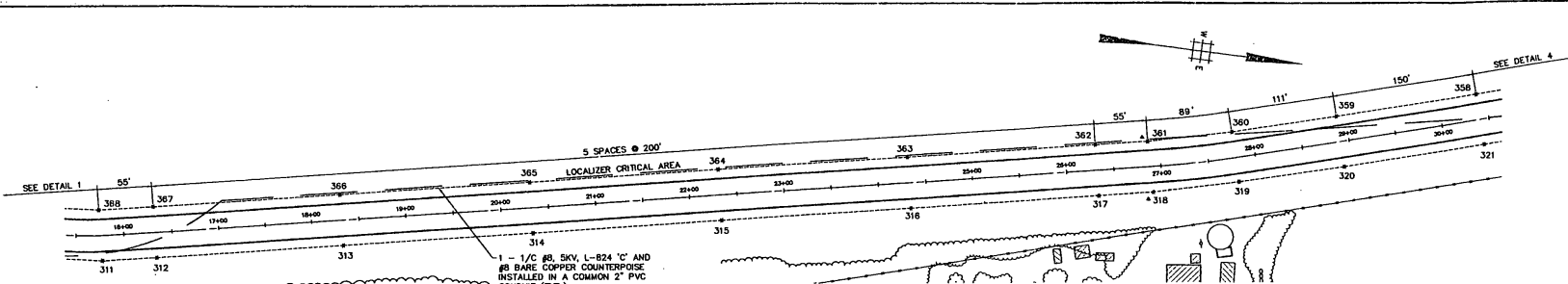
DETAILS 3, 4, 5 DRAWING NO. L2
SIGN PLANS DRAWING NOS. S1, S2



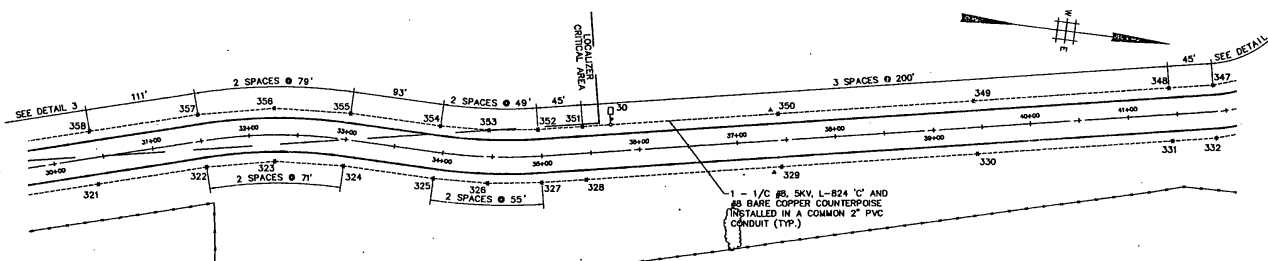
SEAL

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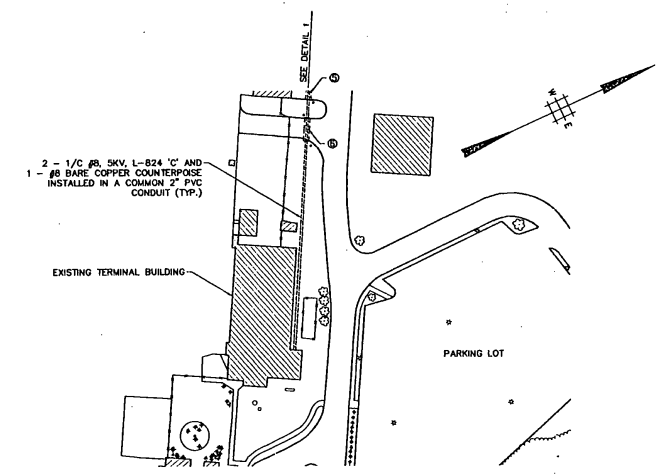
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PROJECT NO.	7904	DATE		DRAWN BY		CHECKED BY	
PROJECT NO. 7904				DATE: AUG. 23, 1983			
PROJECT NO. 7904				DRAWN BY: F.S.			
PROJECT NO. 7904				CHECKED BY: L.L.C.			
Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017							
SCALE: AS SHOWN							
RUTLAND STATE AIRPORT CLARENDON, VERMONT TAXIWAY E							
LIGHTING PLAN AND DETAILS							
DRAWING NO. L1							
SHEET 17 OF 27							



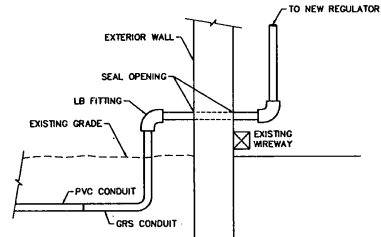
DETAIL 3
SCALE: 1" = 60'



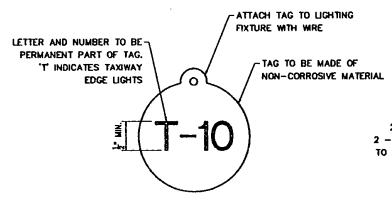
DETAIL 4
SCALE: 1" = 60'



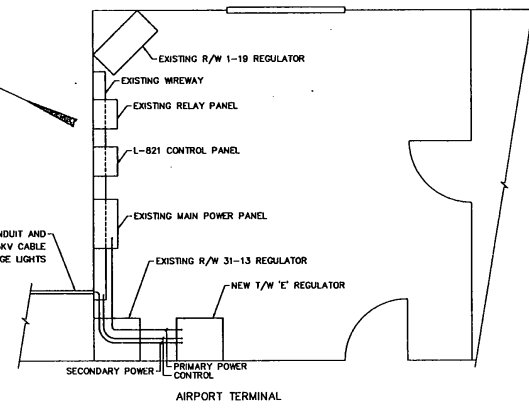
DETAIL 5
SCALE: 1" = 60'



ELECTRICAL ROOM CONDUIT ENTRANCE
N.T.S.



LIGHT IDENTIFICATION TAG
N.T.S.



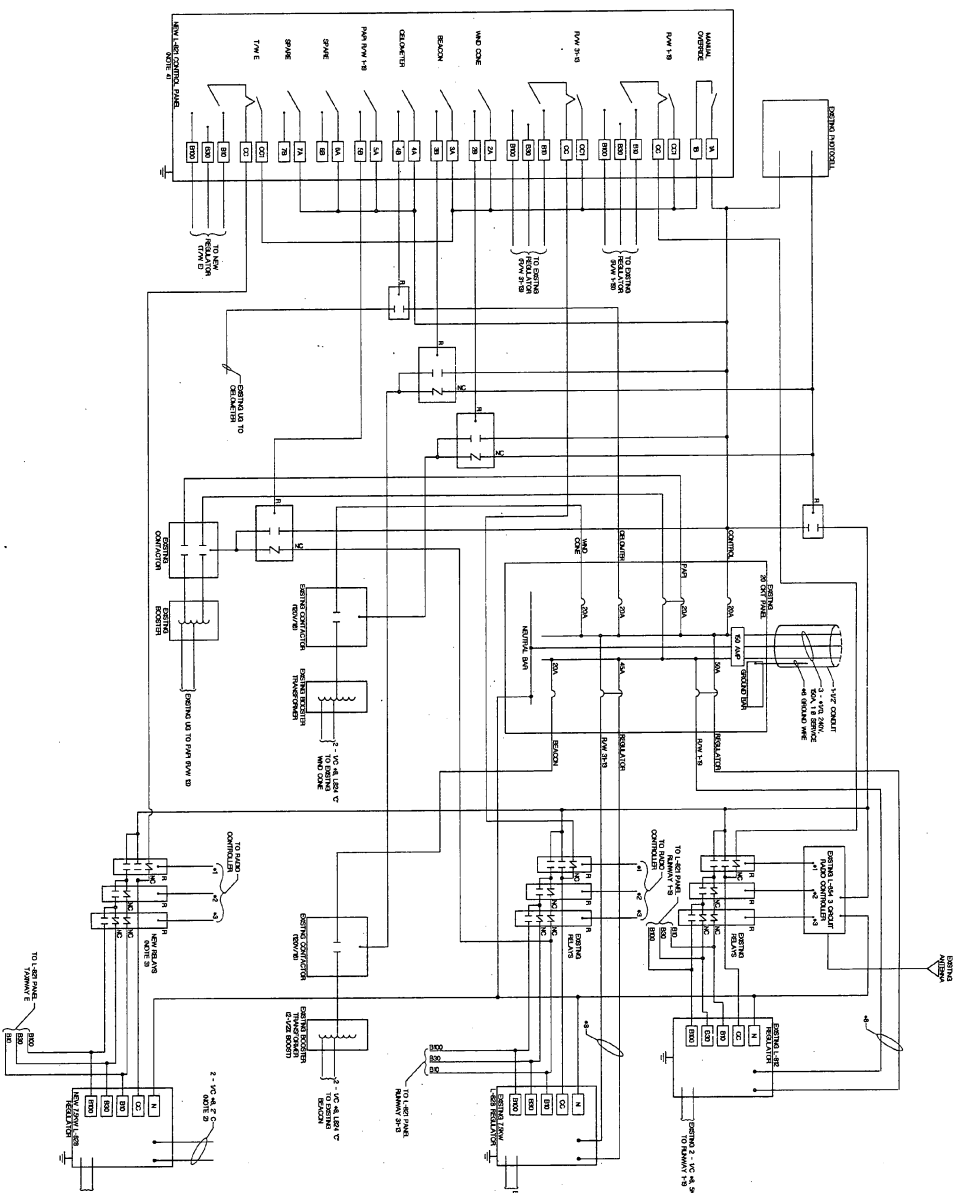
ELECTRICAL ROOM LAYOUT
N.T.S.

- DUCT SCHEDULE**
- ④ 4 WAY 4" CONCRETE ENCASED, 35 L.F.
 - ④ 4 WAY 4" CONCRETE ENCASED, 24 L.F.

- CROSS REFERENCES**
- GENERAL LIGHTING PLAN DETAILS 1, 2 AND 3
LIGHTING NOTES AND LEGEND SIGN PLANS
- DRAWING NO. L1
DRAWING NO. L1
DRAWING NOS. SI, S2

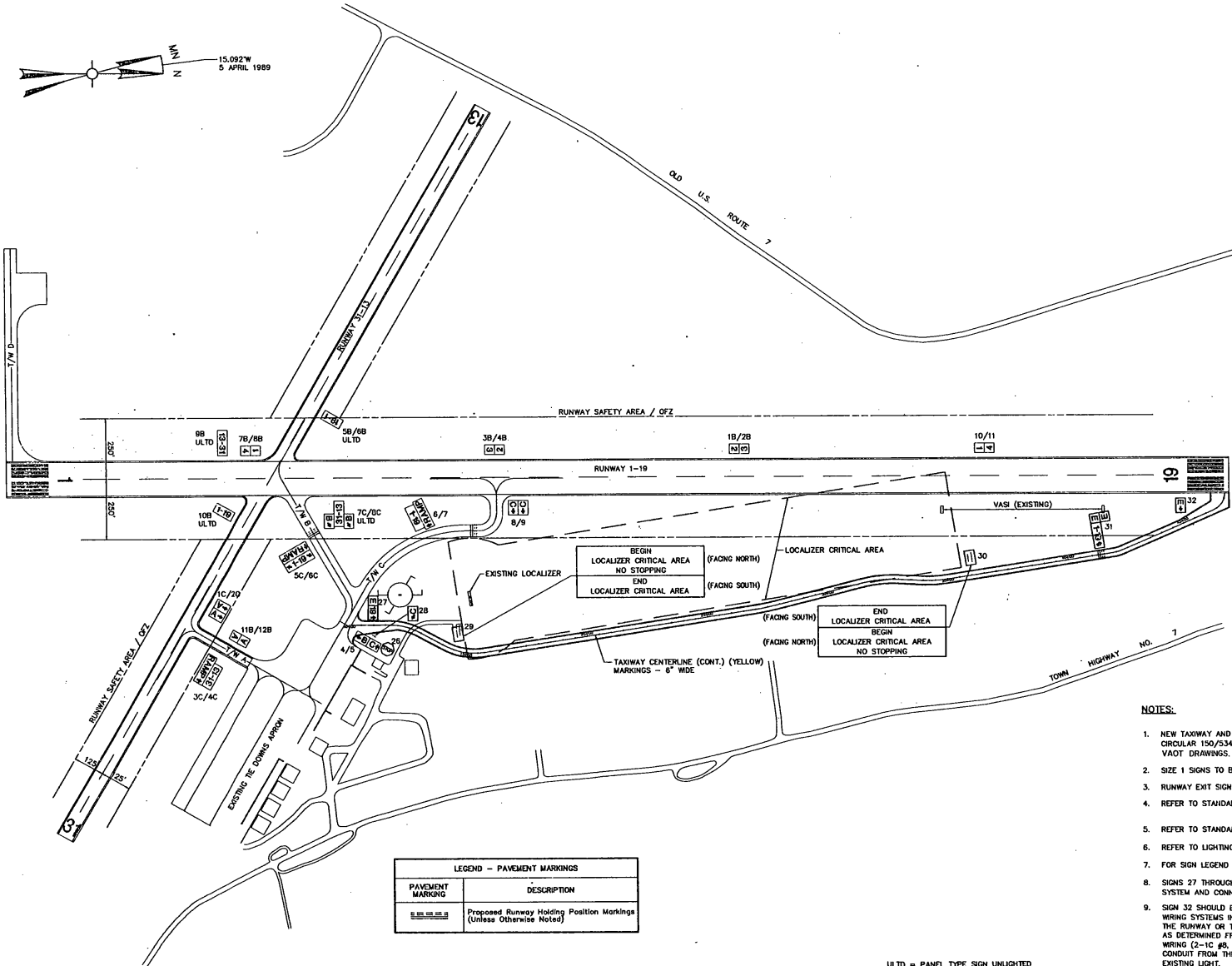
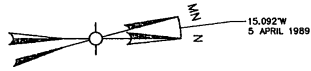


SEAL									
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Envirocyncs Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017									
RUTLAND STATE AIRPORT CLARENDON, VERMONT					TAXIWAY E LIGHTING DETAILS				
DRAWING NO. L2									
SHEET 18 OF 47									



- NOTES:
1. ALL WORK 1/2" PT 3 AND UNLESS OTHERWISE NOTED.
 2. CONNECT TO NEW 2 FUSE AS SHOWN CIRCUIT.
 3. BONDING IN CLOSING 100 AMPERE PANEL.
 4. INTERLOCKING OF RELAYS TO BE AS SHOWN IN CIRCUIT.
 5. INTERLOCKING OF RELAYS TO BE AS SHOWN IN CIRCUIT.
 6. INTERLOCKING OF RELAYS TO BE AS SHOWN IN CIRCUIT.
 7. INTERLOCKING OF RELAYS TO BE AS SHOWN IN CIRCUIT.
 8. INTERLOCKING OF RELAYS TO BE AS SHOWN IN CIRCUIT.
 9. INTERLOCKING OF RELAYS TO BE AS SHOWN IN CIRCUIT.
 10. SEE ELECTRICAL ROOM LAYOUT DETAILS, SEE DRAWING 7804.

	Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017	PROJECT NO. 7804	DATE 8/23/53	DRAWN BY G. W.	CHECKED BY L. G.	DESIGNED BY F. S.	NOT TO SCALE DATE: AUG. 23, 1953
	RUTLAND STATE AIRPORT CLARENDON, VERMONT TAXIWAY E ELECTRICAL DETAILS	REVISION DESCRIPTION					



LEGEND - PAVEMENT MARKINGS	
PAVEMENT MARKING	DESCRIPTION
	Proposed Runway Holding Position Markings (Unless Otherwise Noted)

ULTD = PANEL TYPE SIGN UNLIGHTED

NOTES:

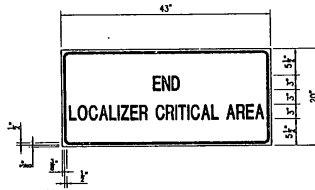
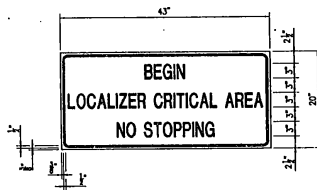
1. NEW TAXIWAY AND RUNWAY SIGNS AND MARKINGS ARE TO CONFORM TO FAA ADVISORY CIRCULAR 150/5340-18C, 150/5345-44E AND 150/5340-1F. SEE ALSO STANDARD VAOT DRAWINGS.
2. SIZE 1 SIGNS TO BE INSTALLED 20' FROM PAVEMENT EDGE.
3. RUNWAY EXIT SIGNS TO BE LOCATED 60' PRIOR TO TURN ONTO TAXIWAY.
4. REFER TO STANDARD SIGN DETAILS DRAWING NO. AP-12 (STD VAOT)
5. REFER TO STANDARD PAVEMENT MARKINGS DRAWING NOS. AP10 & AP11.(STD VAOT)
6. REFER TO LIGHTING PLAN L1 & L2.
7. FOR SIGN LEGEND SEE TABLE 1, DWG. NO. S2.
8. SIGNS 27 THROUGH 31 ARE CONNECTED TO THE NEW TAXIWAY LIGHTING WIRING SYSTEM AND CONNECTIONS ARE SHOWN ON SHEETS 7 AND 8.
9. SIGN 32 SHOULD BE CONNECTED TO THE EXISTING RUNWAY AND TAXIWAY LIGHTING WIRING SYSTEMS IN THE FOLLOWING MANNER. INTERCEPT THE EXISTING WIRING AT THE RUNWAY OR TAXIWAY LIGHT SHOWN (THE CLOSEST RUNWAY OR TAXIWAY LIGHT AS DETERMINED FROM EXISTING DRAWINGS IS SHOWN ON THE PLAN). PROVIDE NEW WIRING (2-1C #8, 5KV, 1824°C CABLES AND #8 BARE COUNTERPOISE) IN A 2" PVC CONDUIT FROM THE LIGHT TO THE SIGN TRANSFORMER. SPLICE WIRING AT THE EXISTING LIGHT.

	RUTLAND STATE AIRPORT CLARENDON, VERMONT TAXIWAY E SIGNING PLAN	DRAWING NO. S1	PROJECT NO. 7804 Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017 DRAWN BY: A.L.P.B. CHECKED BY: L.C. DESIGNED BY: P.S. DATE: AUG. 23, 1993 SCALE: 1" = 200' DATE: AUG. 23, 1993 SCALE: 1" = 200' PROJECT NO. 7804 Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017 DRAWN BY: A.L.P.B. CHECKED BY: L.C. DESIGNED BY: P.S. DATE: AUG. 23, 1993 SCALE: 1" = 200'
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C:\PROJECTS\1505340-18C\1505340-18C.DWG, 08/23/93, 11:20:11 AM

TABLE 1								
SIGN TYPE	ABBREVIATION	NAME	COLOR			FAA SPEC	SIZE	POWERED BY
			INSCRIPTION	BACKGROUND	SYMBOL			
MANDATORY INSTRUCTION SIGN	HP	HOLD POSITION SIGN	WHITE	RED	1-19	L-858R	1	240 VA
	ST	STOP	WHITE	RED	STOP	-	18"	-
	IS	INSTRUCTION SIGN	BLACK	YELLOW	TEXT			
LOCATION SIGN	TL	TAXIWAY LOCATION	YELLOW	BLACK	A	L-858L	1	240 VA
DIRECTION SIGN	RE	EXIT	BLACK	YELLOW	- A	L-858Y	1	241 VA
	TD	TAXIWAY DIRECTION	BLACK	YELLOW	- B	L-858Y	1	241 VA

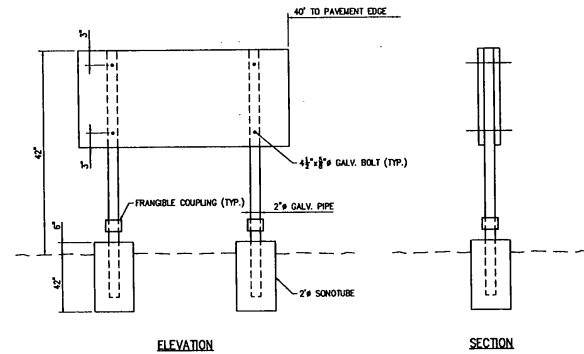
TABLE 2							INSTRUCTIONS	
SIGN NO.	TYPE	STATION	OFFSET	TEXT	# PROPOSED MODULES	# EXISTING MODULES		TOTAL # MODULES
26	ST			STOP	-	-	-	INSTALL (1) STOP SIGN PANEL (TRAFFIC TYPE) PER VAOT E-143
27	TL, TD			E - 19\	2	0	2	INSTALL (1) LOCATION SIGN
28	TD			- C	1	0	1	INSTALL (1) TAXIWAY DIRECTION SIGN
29	IS			"TEXT"	1	0	1	INSTALL NEW INSTRUCTION SIGN "BEGIN LOCALIZER CRITICAL AREA NO STOPPING"
30	IS			"TEXT"	1	0	1	INSTALL NEW INSTRUCTION SIGN "END LOCALIZER CRITICAL AREA"
31	TL, HP			E 1-19\	2	0	2	INSTALL LOCATION SIGN AND (1) HOLD POSITION SIGN
32	RE			EXIT	1	0	1	RUNWAY EXIT SIGN



LETTER WIDTH DIMENSIONS
(ALL LETTERS 3" HIGH)

A,B,C	=	1 1/2"
D,E,G,H,I,P,R	=	1 1/2"
L	=	1"
LETTER SPACING	=	1/2"
WORD SPACING	=	1 1/2"

NOTE:
REFER TO SPECIAL PROVISIONS IN SPECIFICATION FOR SIGNS 29 AND 30.



SEAL
[Signature]

PROJECT NO. 7804

Envirodyne Engineers, Inc.
41 East 42nd St. Suite 1015
New York, NY 10017

DATE: AUG 23, 1982

SCALE: N.T.S.

RUTLAND STATE AIRPORT
CLARENDON, VERMONT

TAXIWAY E

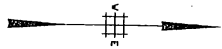
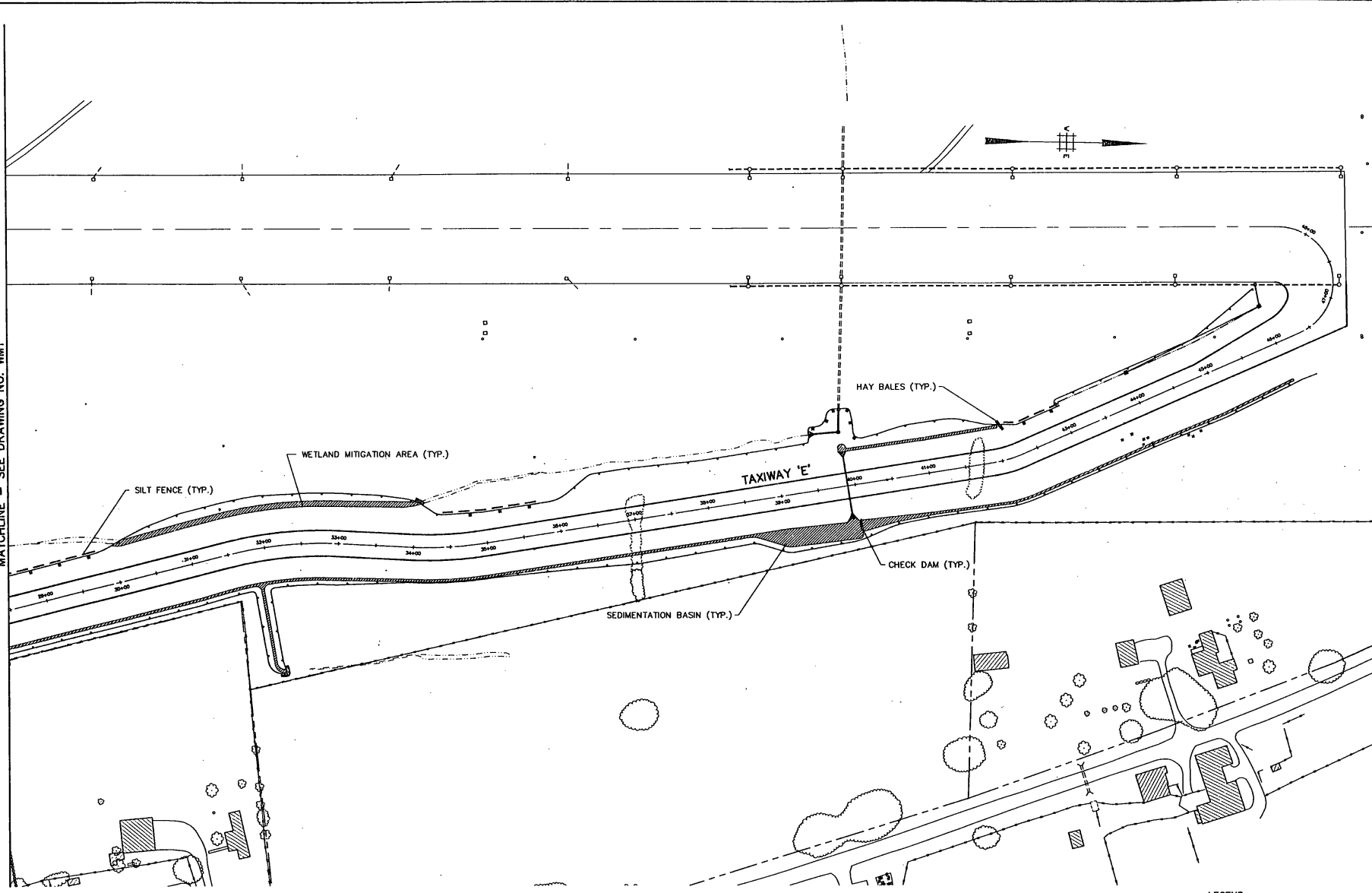
SIGN TABLES AND DETAILS





DRAWING NO. 52


SHEET 22 OF 44

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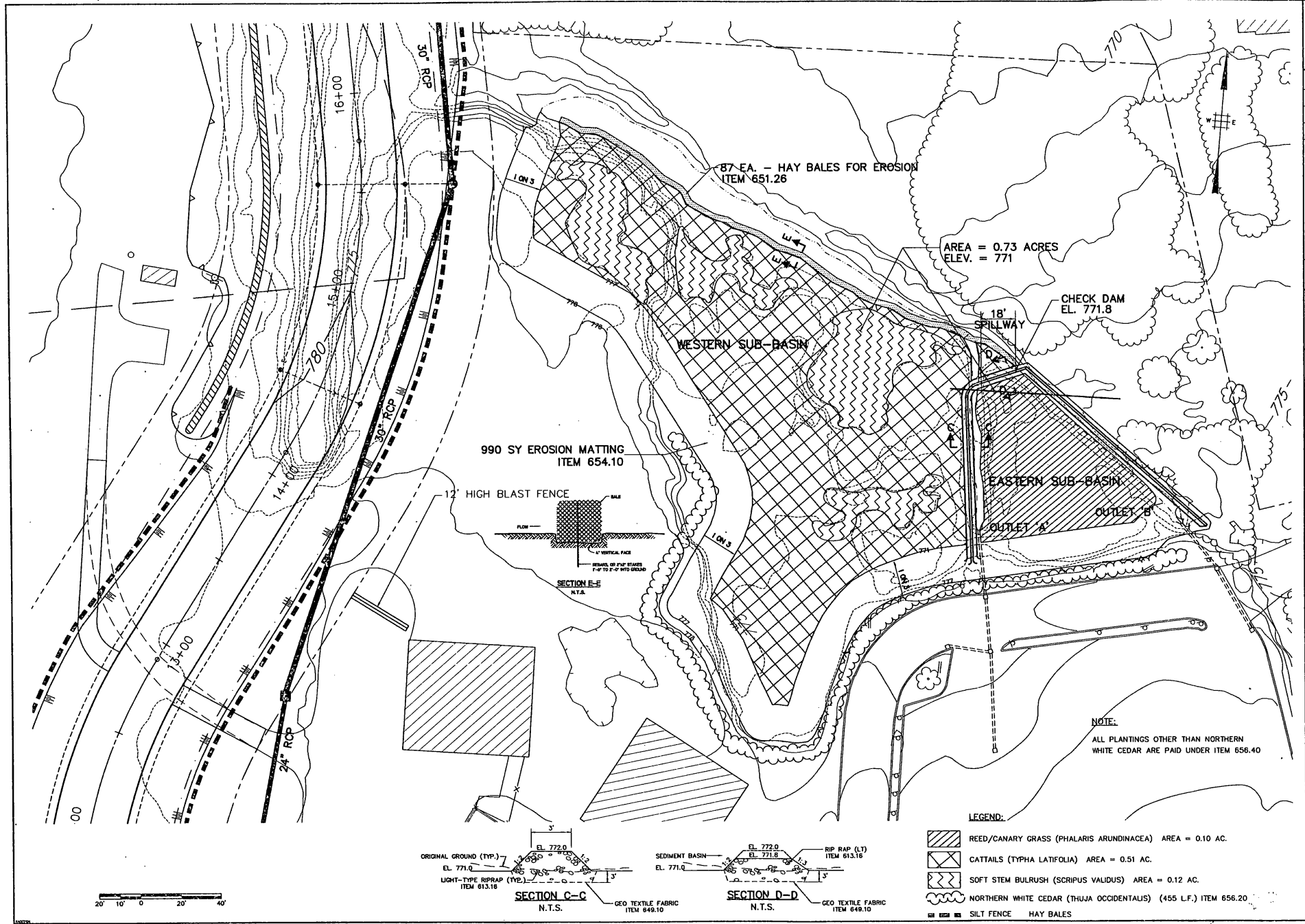
MATCHLINE - SEE DRAWING NO. WM1



- LEGEND:**
-  REED/CANARY GRASS (PHALARIS ARUNDINACEA)
 -  SILT FENCE (ITEM 649.10)
 -  HAY BALES (ITEM 651.26)
 -  LIMIT OF EXISTING BRUSH REMOVAL

													
PROJECT NO. 7804	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DESCRIPTION	DATE									
NO.	DESCRIPTION	DATE											
Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017													
SCALE: 1" = 80' DATE: AUG. 23, 1993	DRAWN BY: CHECKED BY: F.S. D.W. L.C.												
RUTLAND STATE AIRPORT CLARENDON, VERMONT													
TAXIWAY E WETLAND MITIGATION PLAN AREA 1													
DRAWING NO. WM2													
SHEET 24 OF 47													

© WMA CONSULTANTS, INC. 10/20/1995. P20 AUG 23 14:21:29 1995.



990 SY EROSION MATTING
ITEM 654.10

87-EA. - HAY BALES FOR EROSION
ITEM 651.26

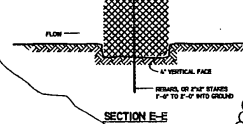
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ELEV. = 771

CHECK DAM
EL. 771.8

WESTERN SUB-BASIN

EASTERN SUB-BASIN

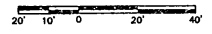
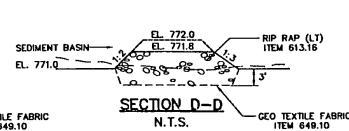
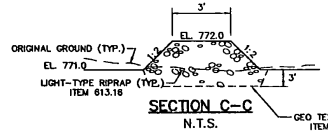
12' HIGH BLAST FENCE



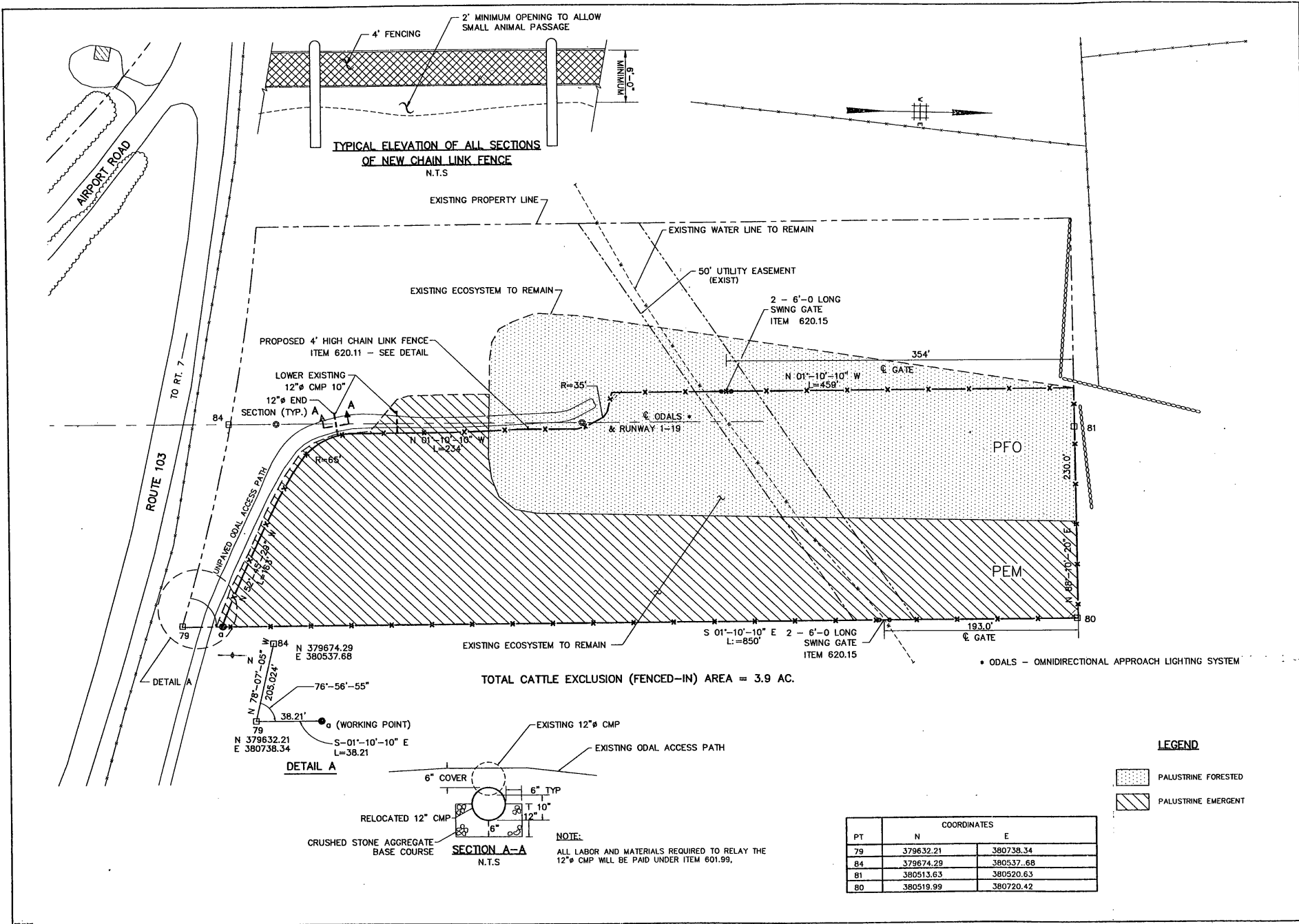
NOTE:
ALL PLANTINGS OTHER THAN NORTHERN
WHITE CEDAR ARE PAID UNDER ITEM 656.40

LEGEND:

- REED/CANARY GRASS (PHALARIS ARUNDINACEA) AREA = 0.10 AC.
- CATTAILS (TYPHA LATIFOLIA) AREA = 0.51 AC.
- SOFT STEM BULRUSH (SCRIPUS VALIDUS) AREA = 0.12 AC.
- NORTHERN WHITE CEDAR (THUJA OCCIDENTALIS) (455 L.F.) ITEM 656.20
- SILT FENCE
- HAY BALES

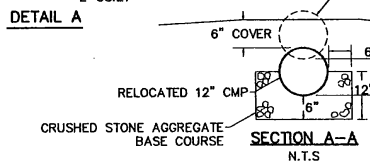


PROJECT NO. 7804	DRAWN BY D.W.	CHECKED BY L.G.	DATE AUG. 23, 1993	SCALE 1" = 20'	SHEET NO. 25 OF 77
Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017					
RUTLAND STATE AIRPORT CLARENDON, VERMONT TAXIWAY E WETLAND MITIGATION PLAN - AREA 2					
DRAWING NO. WM3					



TYPICAL ELEVATION OF ALL SECTIONS OF NEW CHAIN LINK FENCE
N.T.S.

TOTAL CATTLE EXCLUSION (FENCED-IN) AREA = 3.9 AC.



NOTE:
ALL LABOR AND MATERIALS REQUIRED TO RELAY THE 12" CMP WILL BE PAID UNDER ITEM 601.99.

PT	COORDINATES	
	N	E
79	379632.21	380738.34
84	379674.29	380537.68
81	380513.63	380520.63
80	380519.99	380720.42

LEGEND
 PALUSTRINE FORESTED
 PALUSTRINE EMERGENT

SEAL

PROJECT NO. 7804

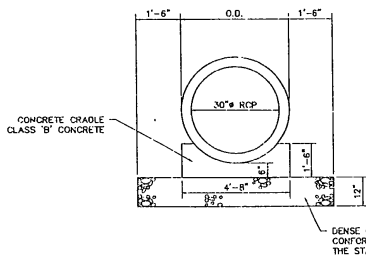
Envirodyne Engineers, Inc.
41 East 42nd St. Suite 1015
New York, NY 10017

SCALE: 1" = 40'
DATE: AUG. 23, 1983
DESIGNED BY: F.S.
DRAWN BY: D.W.
CHECKED BY: L.C.

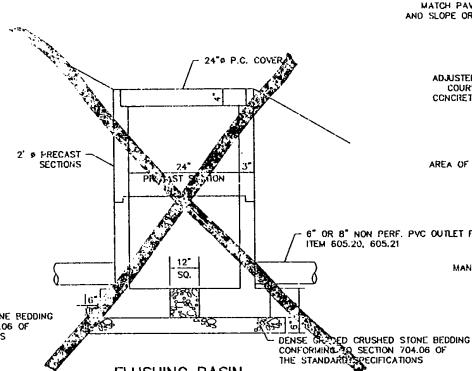
RUTLAND STATE AIRPORT
CLARENDON, VERMONT

TAXIWAY E
WETLAND MITIGATION PLAN
AREA 3

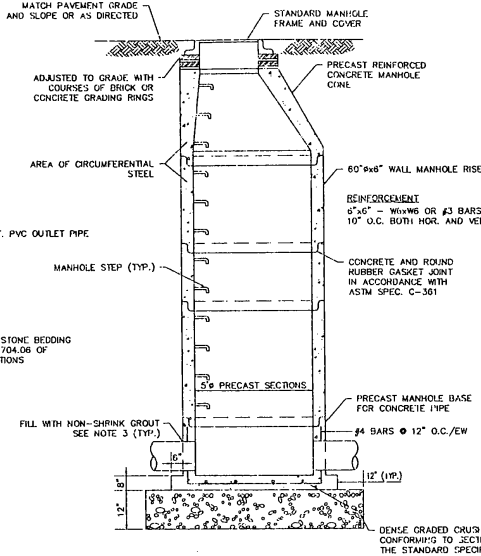
DRAWING NO. WM4
SHEET 26 OF 27



CULVERT, CRADLE AND STORM SEWER BEDDING
ITEM 601.0801
N.T.S.

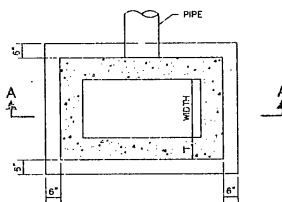


FLUSHING BASIN
FOR 6" OR 8" UNDERDRAIN
ITEM 605.95
N.T.S.

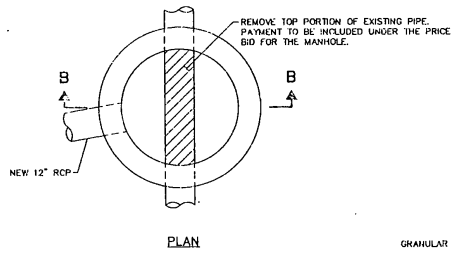


PRECAST MANHOLE
ITEM 604.21
N.T.S.

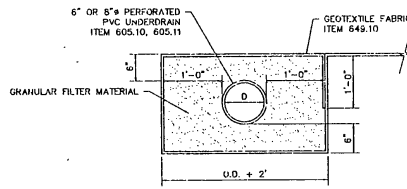
- NOTES:**
- MANHOLE FRAME AND COVER AT STA. 46+00 SHALL BE NENAH FOUNDRY CO. R1590 OR APPROVED EQUAL.
 - OPENINGS IN WALLS FOR PIPE SHALL BE CAST-IN-PLACE OR CUT CLEANLY AND WITHOUT PERCUSSION TO A MAXIMUM DIAMETER OF O.D. + 3". THE SPACE BETWEEN PIPE AND WALL SHALL THEN BE FILLED WITH NON-SHRINK GROUT.
 - MANHOLE RUNS SHALL BE NENAH NO. R-1581-N DUCTILE IRON PIPE.
 - SPLICE LENGTHS REQUIRED FOR REINFORCING BARS: #4 BAR, 1'-4"; #6 BAR, 2'-0"; AND #8 BAR, 3'-5".
 - THERE WILL BE NO SEPARATE PAYMENT FOR DENSE GRADED CRUSHED STONE BEDDING, AS SHOWN UNDER THE DRAINAGE STRUCTURES, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE SPECIFIC DRAINAGE STRUCTURE.
 - DENSE GRADED CRUSHED STONE BEDDING SHALL MEET THE REQUIREMENTS OF SECTION 704.06 OF THE STANDARD SPECIFICATIONS.
 - CONCRETE FOR MANHOLES AND INLET STRUCTURES TO BE 4000 PSI AIR-ENTRAINED.
 - REINFORCED PRECAST PRODUCTS TO BE IN ACCORDANCE WITH ASTM SPECIFICATIONS C-478.



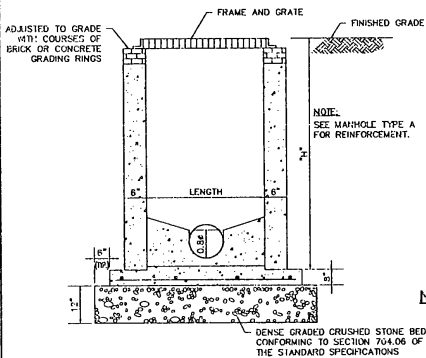
PLAN



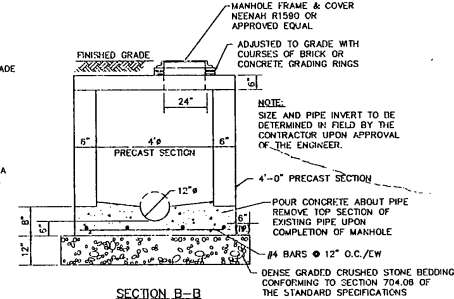
PLAN



UNDERDRAIN DETAIL
N.T.S.



PRE-CAST DROP INLET
ITEM 604.25
N.T.S.



MANHOLE TYPE A
NEW MANHOLE AT EXISTING 12" PIPE
STA. 46+00, 100' ± LEFT
ITEM 604.31
N.T.S.

NO.	LOCATION	LENGTH	WIDTH	DRAINAGE INLETS			FRAME AND GRATE	REMARKS
				WALL THICKNESS	DEPTH	W		
1	13+10, 65' RT.	3'-0"	2'-0"	6"	7"	R-3475		
2	22+50, 45' LT.	3'-4"	1'-11"	6"	4"	R-3362		
3	46+00, 60' LT.	2'-5"	2'-5"	6"	3.5"	R-3350		
4	44+00, 44' LT.	2'-5"	2'-5"	6"	3.0"	R-3350		

* NENAH FOUNDRY COMPANY OR APPROVED EQUAL.
** DOES NOT INCLUDE WALL THICKNESS.

LOCATION STA. - STA.	OFFSET	UNDERDRAINS			COMMENTS		
		EAST SIDE	WEST SIDE	CONVENTS			
11+00 - 14+50	-	22'	350'	-			
11+00 - 14+50	22'	-	350'	-			
14+50 - 15+55	22'	-	110'	-			
14+50	22'	22'	44'	-	CARRIER PIPE CROSSOVER		
15+55	44'	22'	56'	-	CARRIER PIPE CROSSOVER		
14+53 - 17+35	-	22'	275'	-			
17+35 - 18+00	-	22'	60'	-			
18+50 - 22+10	-	22'	330'	-			
18+50	46'	22'	68'	-	CARRIER PIPE CROSSOVER, OUTLET TO HEADWALL		
19+10	-	22'	300'	-			
19+10 - 22+10	-	22'	325'	-			
26+25 - 29+50	22'	-	300'	-			
26+50 - 29+50	22'	-	300'	-			
29+50 - 35+00	-	22'	545'	-			
29+50 - 35+00	22'	-	545'	-			
35+00 - 39+50	-	22'	450'	-			
35+00 - 39+50	-	22'	450'	-			
39+50	-	-	-	44'	CARRIER PIPE CROSSOVER		
39+85 - 39+50	-	-	-	68'	CARRIER PIPE CROSSOVER, OUTLET TO MANHOLE		
39+85 - 39+50	22'	35'	-	-			
43+00 - 44+50	-	22'	150'	-			
44+00 - 45+00	22'	-	100'	44'	CARRIER PIPE CROSSOVER		
44+50 - 45+00	-	22'	50'	-			
45+00 - 46+00	-	22'	100'	40'	CARRIER PIPE CROSSOVER, OUTLET TO EXISTING DROP INLET		
46+50 - 47+15	22'	-	110'	-			
47+00 - 46+00	-	VARIES	100'	20'	CARRIER PIPE CROSSOVER		
TOTAL			4185 L.F.	282 L.F.	910 L.F.	112 L.F.	

SEAL

PROJECT NO. 7304

Envirodyne Engineers, Inc.
41 East 42nd St. Suite 1015
New York, NY 10017

DRAWN BY: E.M.
CHECKED BY: L.O.
REGISTERED BY: P.S.
DATE: AUG. 23, 1993
SCALE: AS SHOWN

RUTLAND STATE AIRPORT
CLARENDON, VERMONT

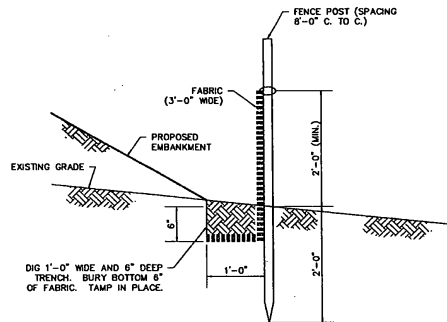
TAXIWAY E

DRAINAGE STRUCTURE DETAILS

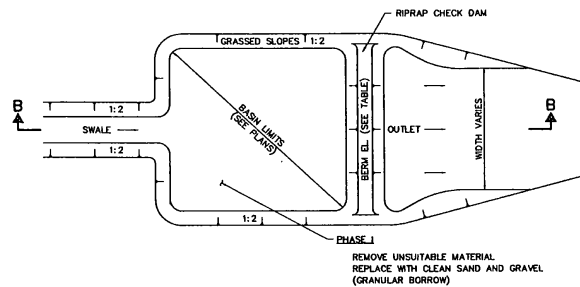
DRAWING NO. DD1

SHEET 27 OF 47

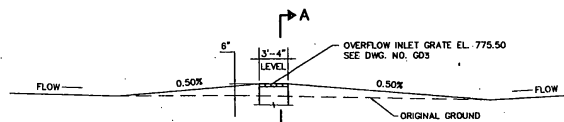
REVISED 9-15-93 P.D.



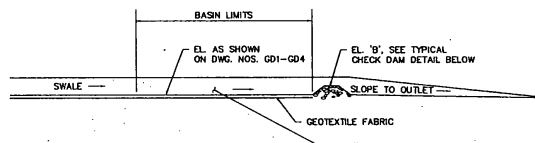
SILT FENCE DETAIL
ITEM 649.20
N.T.S.



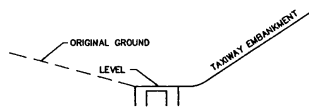
SEDIMENTATION BASIN / WETLAND POOL
N.T.S.



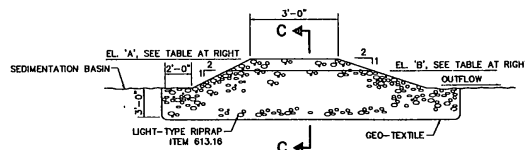
CHECK DAM AND DROP INLET
STA. 22+20.45' LEFT
N.T.S.



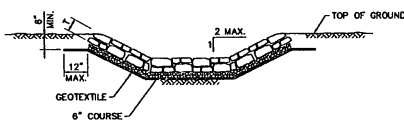
SECTION B-B
N.T.S.



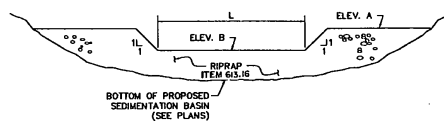
SECTION A-A
N.T.S.



TYPICAL CHECK DAM DETAIL
N.T.S.



RIP-RAP @ SWALES
ITEM 613.16
N.T.S.



SECTION C-C
N.T.S.

REQUIREMENTS FOR SEDIMENT BARRIER
DESIGN CRITERIA

- A. ALL TYPES OF SEDIMENT BARRIERS:
1. THE BARRIER SHALL BE CONSTRUCTED SO WATER CANNOT BYPASS THE BARRIER AROUND THE ENDS.
 2. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 3. THE BARRIER SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE. APPROVAL FROM RESIDENT ENGINEER REQUIRED.
- B. REQUIREMENTS FOR BALE BARRIER (E.G., STRAW, HAY OR OTHER ACCEPTABLE VEGETATIVE MATERIAL):
1. BALES TO BE PLACED AT LOCATIONS NOTED ON THE PLANS.
 2. ALL BALES SHALL BE SECURELY TIED AND STAKED ON THE CONTOUR. SEE SHEET 23 FOR DETAILS.
 3. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 4. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES.
 5. BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO STAKES OR RE-BARS DRIVEN THROUGH EACH BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
- C. REQUIREMENTS FOR SILT FENCE (SEE DETAIL ON THIS SHEET):
1. SILT FENCES TO BE PLACED AT LOCATIONS NOTED ON THE PLANS.
 2. FENCE POSTS SHALL BE SPACED 8 FEET CENTER TO CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO THE GROUND. THEY SHALL EXTEND AT LEAST 2 FEET ABOVE GROUND.
 3. A FILTER FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FILTER FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE THE GROUND. FILTER FABRIC MAY BE FASTENED IN PLACE BY STAKE OR OTHER MEANS ACCEPTED BY THE RESIDENT ENGINEER.

SEDIMENTATION BASIN / WETLAND POOL NOTES

1. CONTRACTOR TO CONSTRUCT SEDIMENTATION BASINS AS HIS FIRST OPERATION.
2. CONTRACTOR TO REMOVE ACCUMULATED SEDIMENT AS NECESSARY DURING CONSTRUCTION OF TAXWAY FOR EFFICIENT BASIN OPERATION.
3. UPON COMPLETION OF THE PROJECT, ESTABLISHMENT OF GRASSED SIDESLOPES AND UPON THE FINAL CLEANING OF THE BASIN OF SILT, THE CONTRACTOR MAY THEN COMPLETE THE FINAL PHASE OF BASIN CONSTRUCTION BY PLACING THE REQUIRED SOILS IN THE BASIN AND PLANTING THE RECOMMENDED VEGETATION (SEE DETAIL, PHASE II).

SEDIMENTATION BASINS					
LOCATION	OFFSET	DNW L	ELEV. A	ELEV. B	
STA. 21+80	100' RT.	13.0	771.00	770.50	SEE DWG. NO. G02
STA. 23+00	60' RT.	10.0	772.00	771.50	SEE DWG. NO. G02
STA. 40+00	60' RT.	10.0	771.20	770.70	SEE DWG. NO. G03

SEAL

[Signature]

PROJECT NO. 7804

Envirodyne Engineers, Inc.
41 Esset 42nd St. Suite 1015
New York, NY 10017

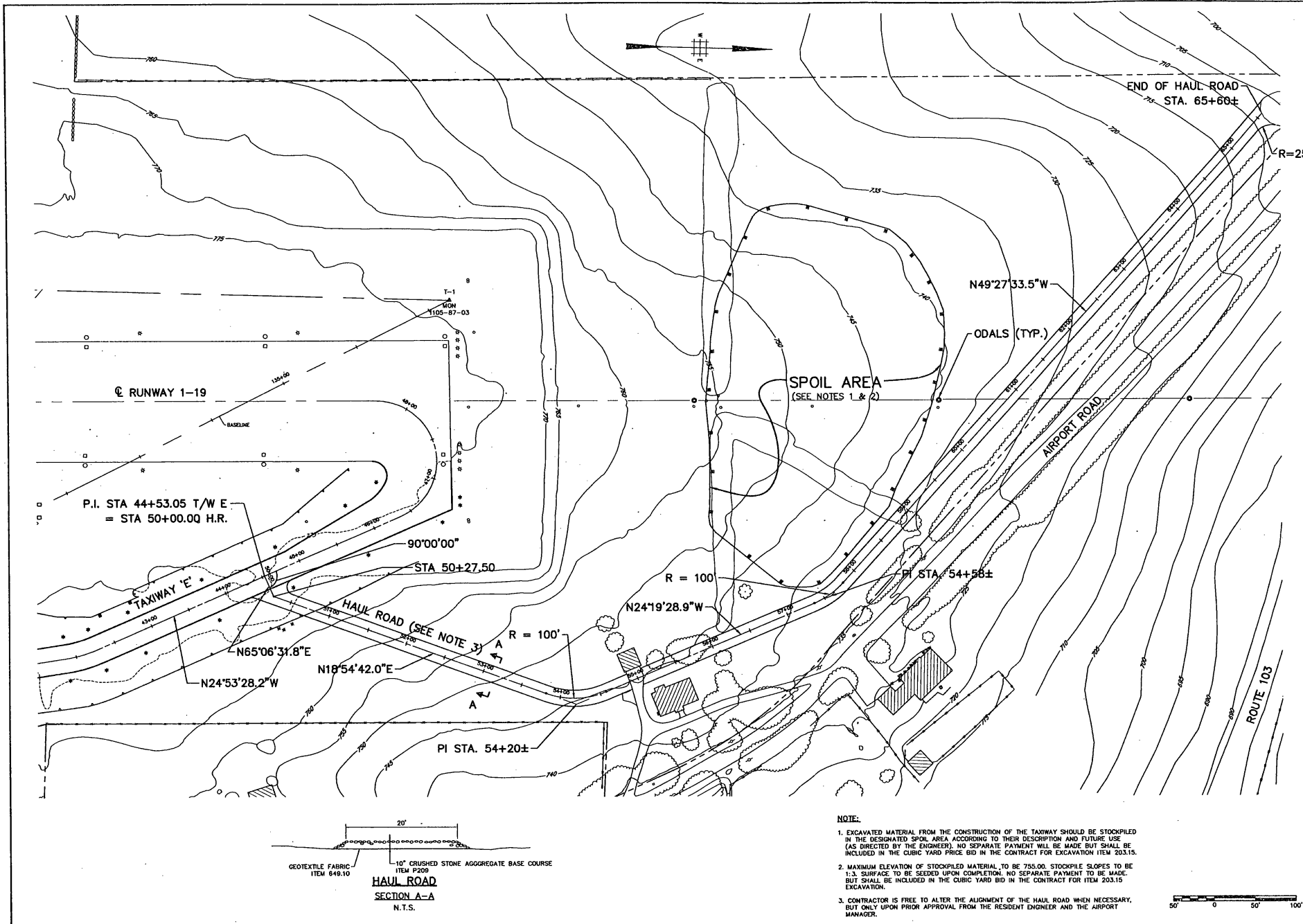
DATE: AUG. 23, 1993
SCALE: AS SHOWN
F.S.
E.M.
DRAWN BY: [Blank]
CHECKED BY: [Blank]

RUTLAND STATE AIRPORT
CLARENDON, VERMONT

TAXWAY E
EROSION CONTROL AND
WETLAND MITIGATION DETAILS

DRAWING NO. DD2
SHEET 28 OF 77

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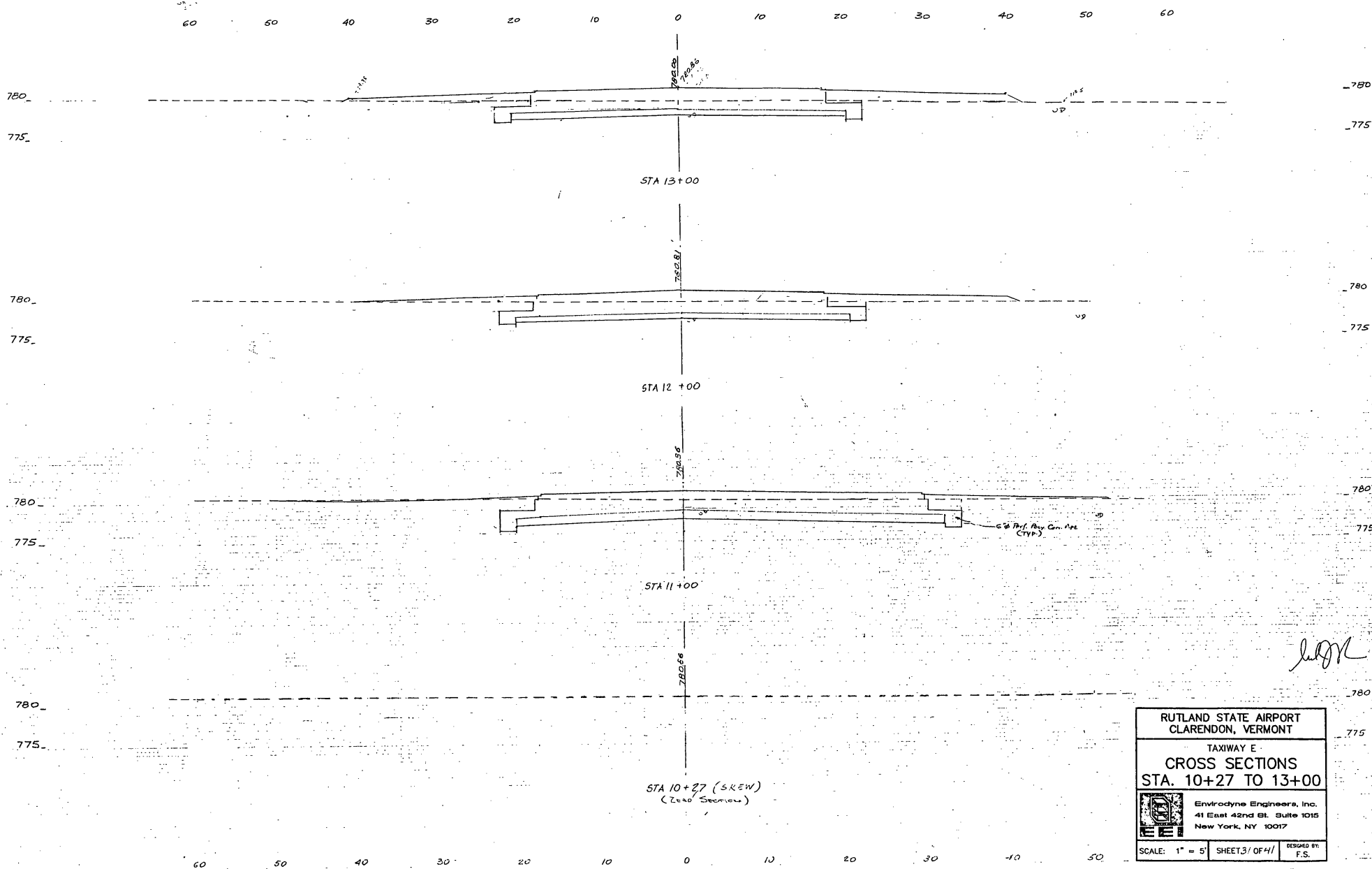


- NOTE:**
- EXCAVATED MATERIAL FROM THE CONSTRUCTION OF THE TAXIWAY SHOULD BE STOCKPILED IN THE DESIGNATED SPOIL AREA ACCORDING TO THEIR DESCRIPTION AND FUTURE USE (AS DIRECTED BY THE ENGINEER). NO SEPARATE PAYMENT WILL BE MADE BUT SHALL BE INCLUDED IN THE CUBIC YARD PRICE BID IN THE CONTRACT FOR EXCAVATION ITEM 203.15.
 - MAXIMUM ELEVATION OF STOCKPILED MATERIAL TO BE 755.00. STOCKPILE SLOPES TO BE 1:3. SURFACE TO BE SEEDED UPON COMPLETION. NO SEPARATE PAYMENT TO BE MADE. BUT SHALL BE INCLUDED IN THE CUBIC YARD BID IN THE CONTRACT FOR ITEM 203.15 EXCAVATION.
 - CONTRACTOR IS FREE TO ALTER THE ALIGNMENT OF THE HAUL ROAD WHEN NECESSARY, BUT ONLY UPON PRIOR APPROVAL FROM THE RESIDENT ENGINEER AND THE AIRPORT MANAGER.




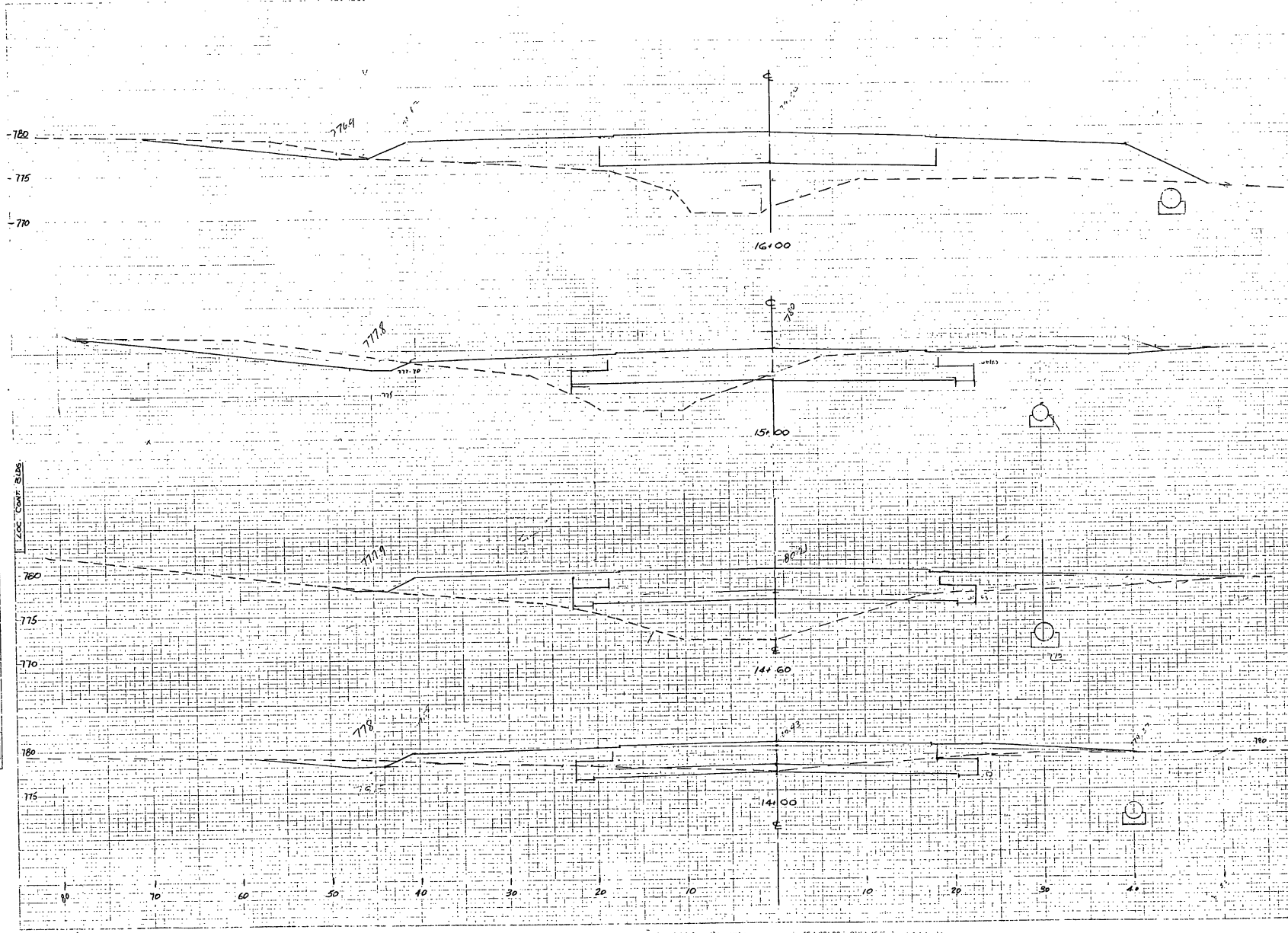
SEAL
 PROJECT NO. 7804
 Envirodyne Engineers, Inc.
 41 East 42nd St. Suite 1015
 New York, NY 10017
 DATE: AUG. 23, 1993
 SCALE: 1" = 50'
 ROUTE 103
 RUTLAND STATE AIRPORT
 CLARENDON, VERMONT
 TAXIWAY E
 HAUL ROAD AND
 SPOIL AREA PLAN
 DRAWING NO. HR1
 SHEET 29 OF 27

C:\USER\DESIGNER\PLANS\CLARENDON\1015\1015.DWG, 1015, AUG 23 10 26 35, 1993




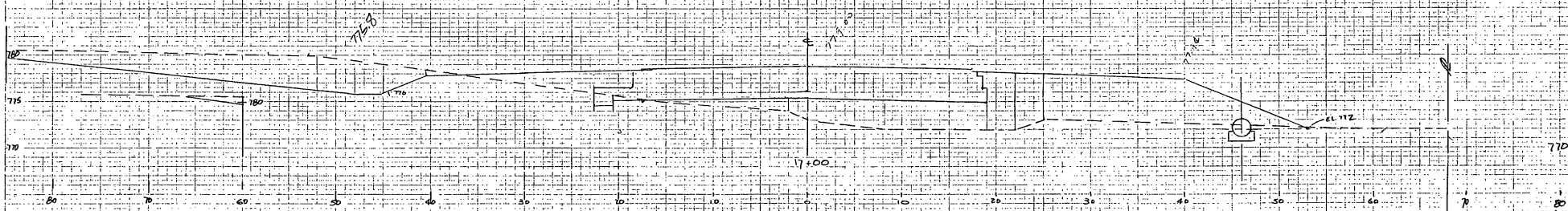
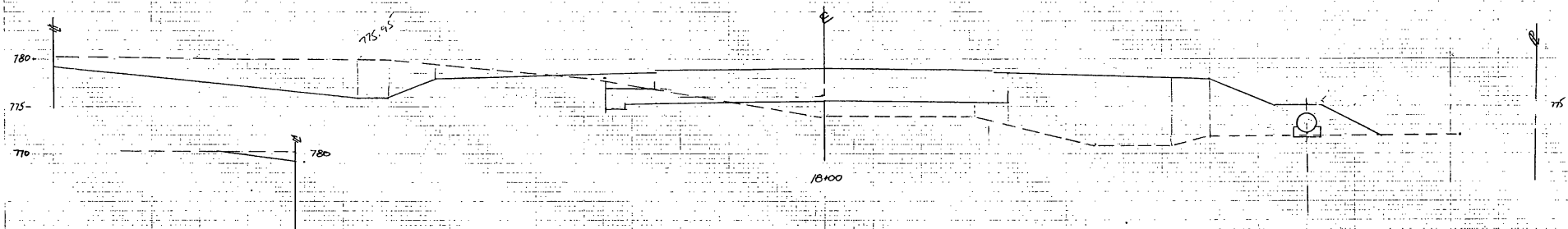
[Signature]

RUTLAND STATE AIRPORT CLARENDON, VERMONT	
TAXIWAY E CROSS SECTIONS STA. 10+27 TO 13+00	
	Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017
SCALE: 1" = 5'	DESIGNED BY: F.S.




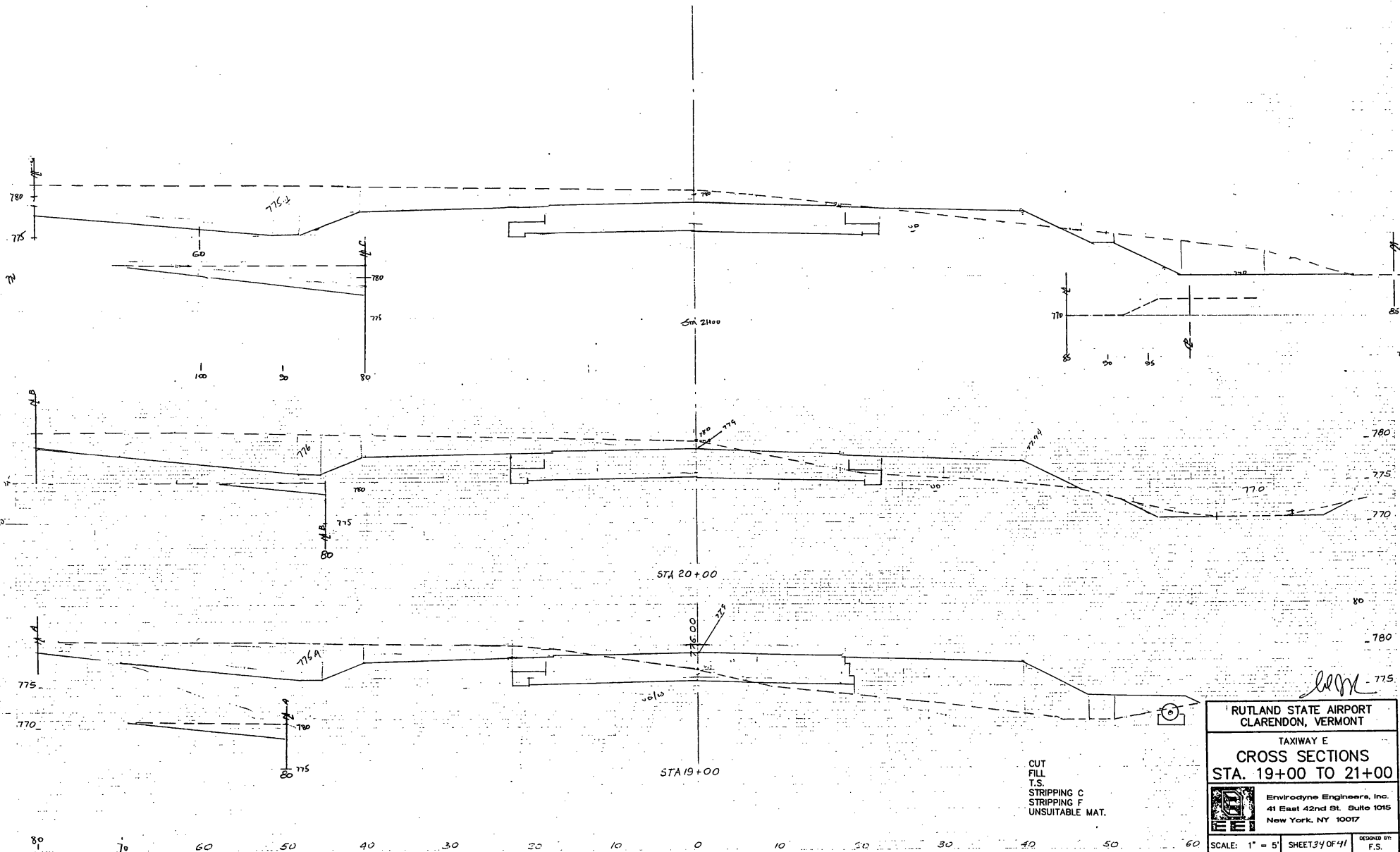
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RUTLAND STATE AIRPORT CLARENDON, VERMONT	
TAXIWAY E CROSS SECTIONS	
STA. 14+00 TO 16+00	
	Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017
SCALE: 1" = 5'	SHEET 32 OF 41
DESIGNED BY:	F.S.



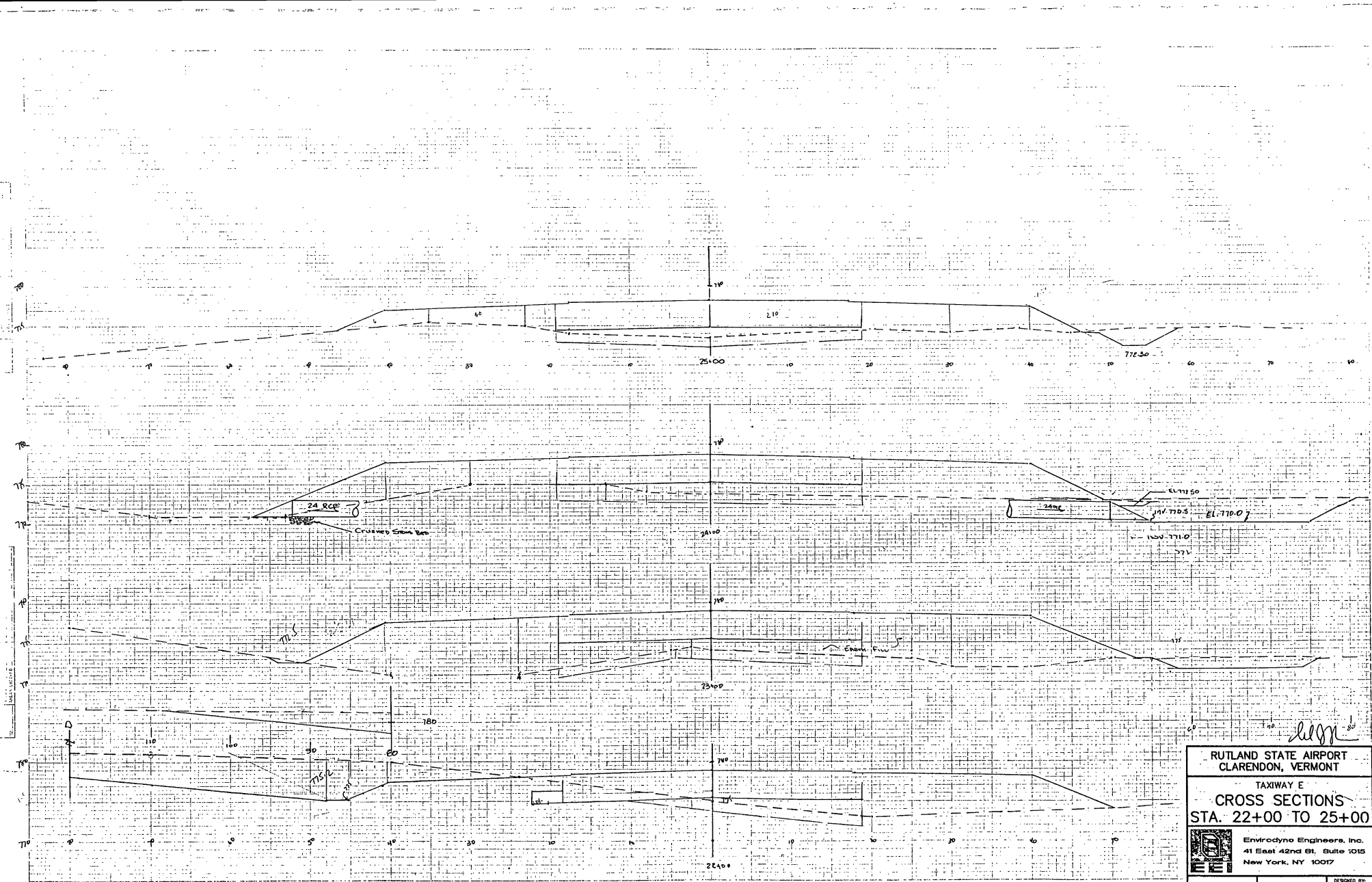
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RUTLAND STATE AIRPORT CLARENDON, VERMONT	
TAXWAY E CROSS SECTIONS STA. 17+00 TO 18+00	
	Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017
SCALE: 1" = 5'	DESIGNED BY: SHEET 33 OF 44 F.S.




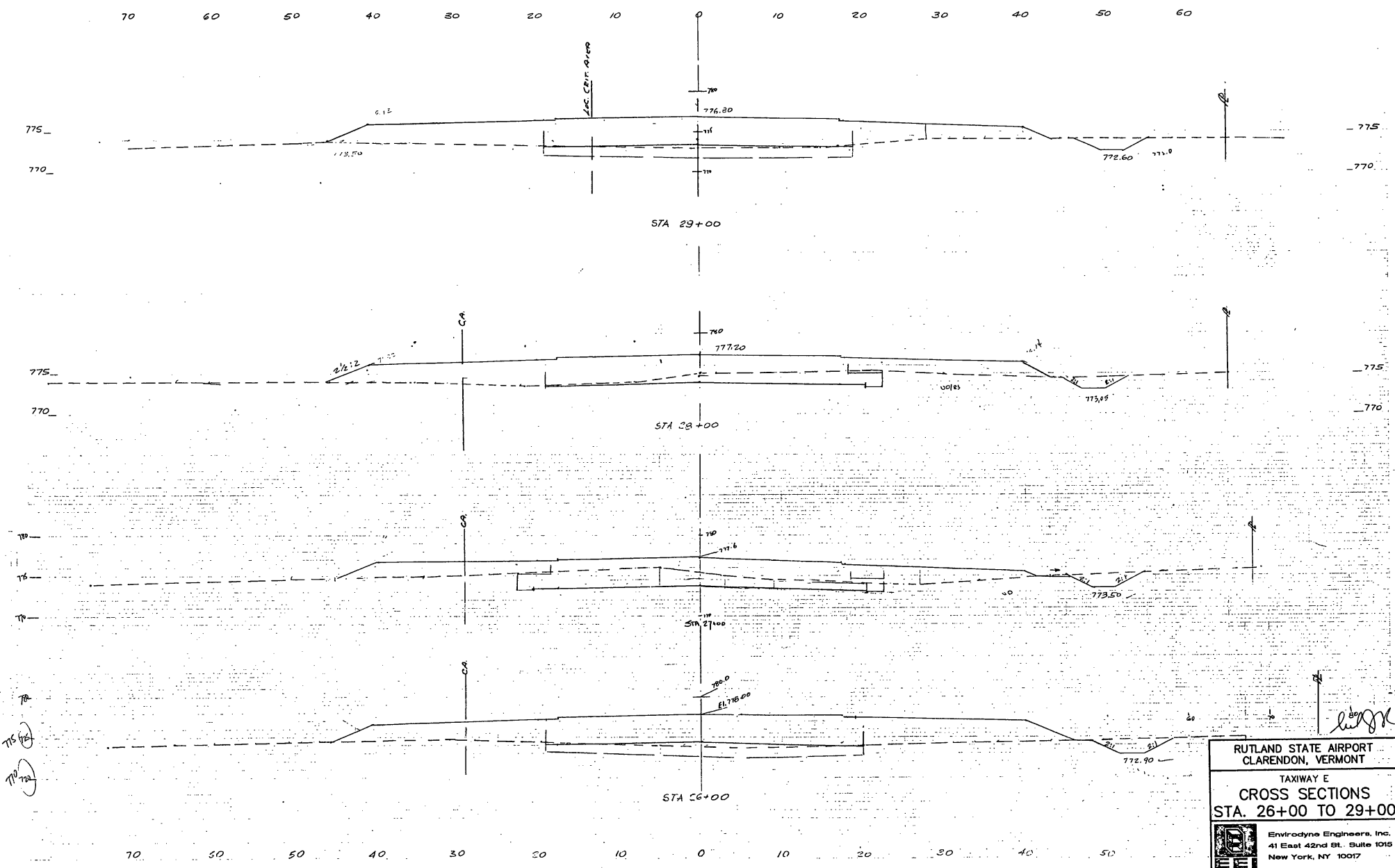
CUT
 FILL
 T.S.
 STRIPPING C
 STRIPPING F
 UNSUITABLE MAT.


RUTLAND STATE AIRPORT CLARENDON, VERMONT		
TAXIWAY E CROSS SECTIONS STA. 19+00 TO 21+00		
Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017		
SCALE: 1" = 5'	SHEET 34 OF 41	DESIGNED BY: F.S.

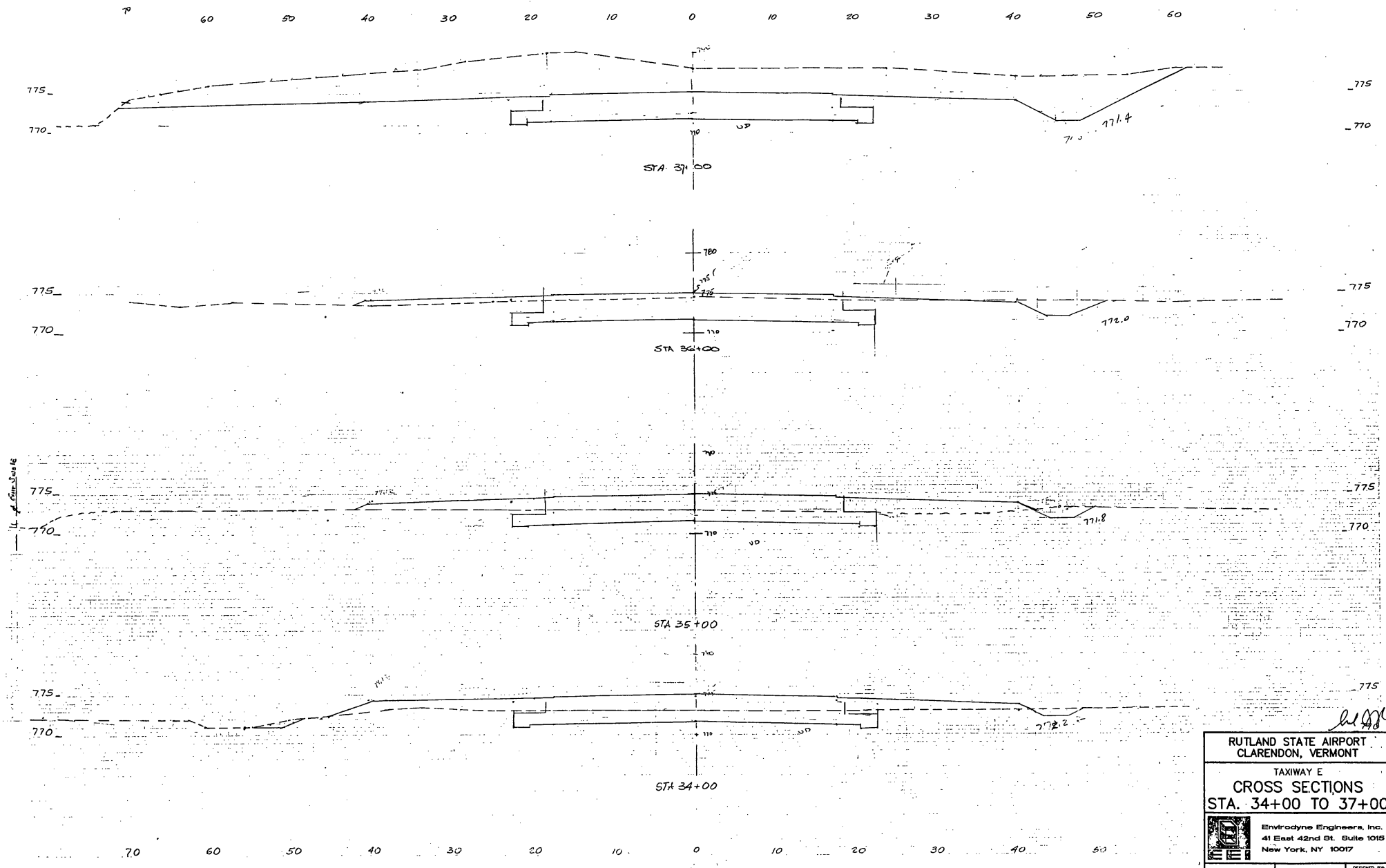


*delm*⁸⁰

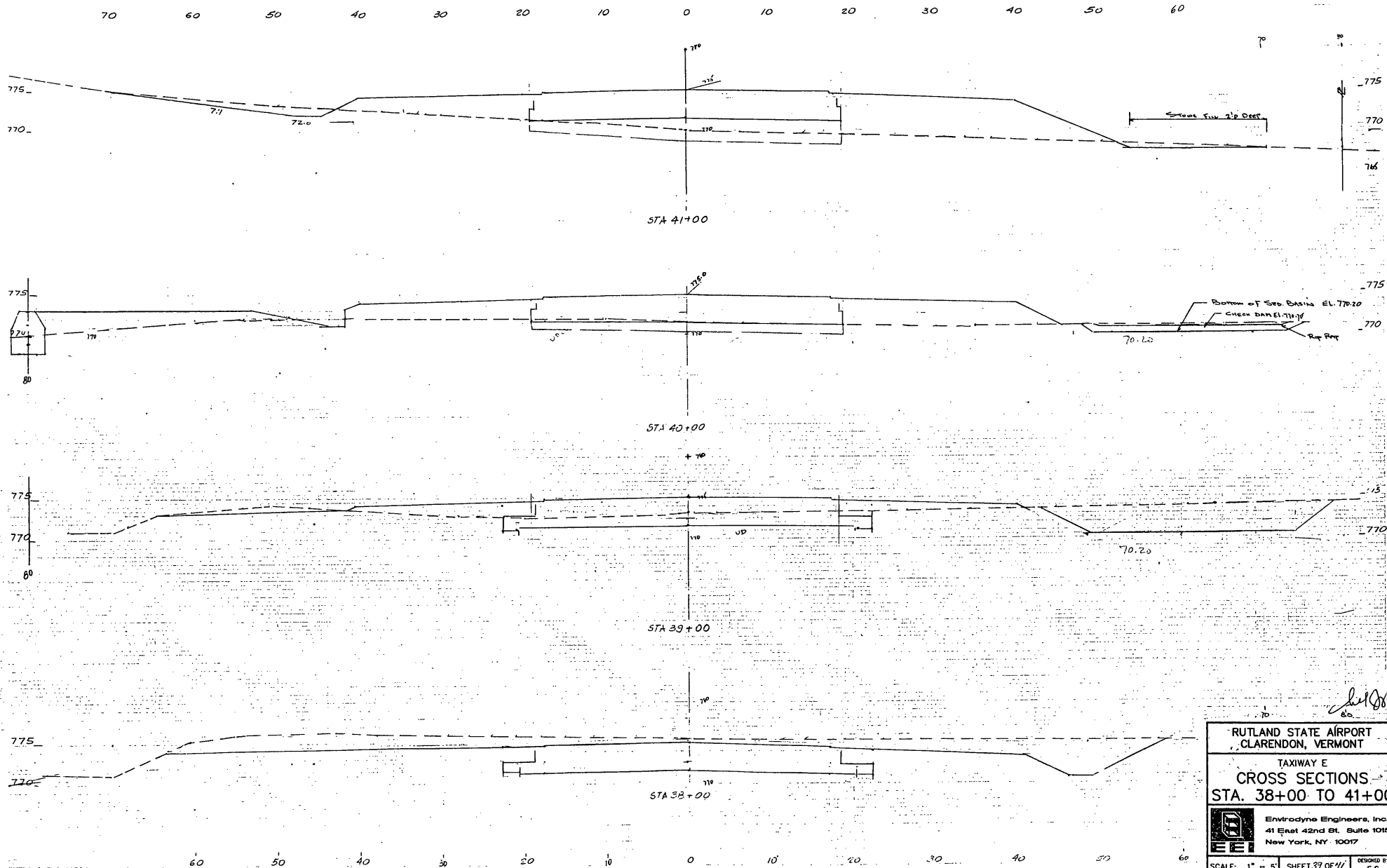
RUTLAND STATE AIRPORT CLARENDON, VERMONT	
TAXIWAY E CROSS SECTIONS STA. 22+00 TO 25+00	
 Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017	
SCALE: 1" = 5'	SHEET 35 OF 41
DESIGNED BY: F.S.	




RUTLAND STATE AIRPORT CLARENDON, VERMONT	
TAXIWAY E CROSS SECTIONS STA. 26+00 TO 29+00	
	Envirodyne Engineers, Inc. 41 East 42nd St., Suite 1015 New York, NY 10017
	SCALE: 1" = 5' SHEET 36 OF 41 DESIGNED BY: <i>[Signature]</i> F.S.

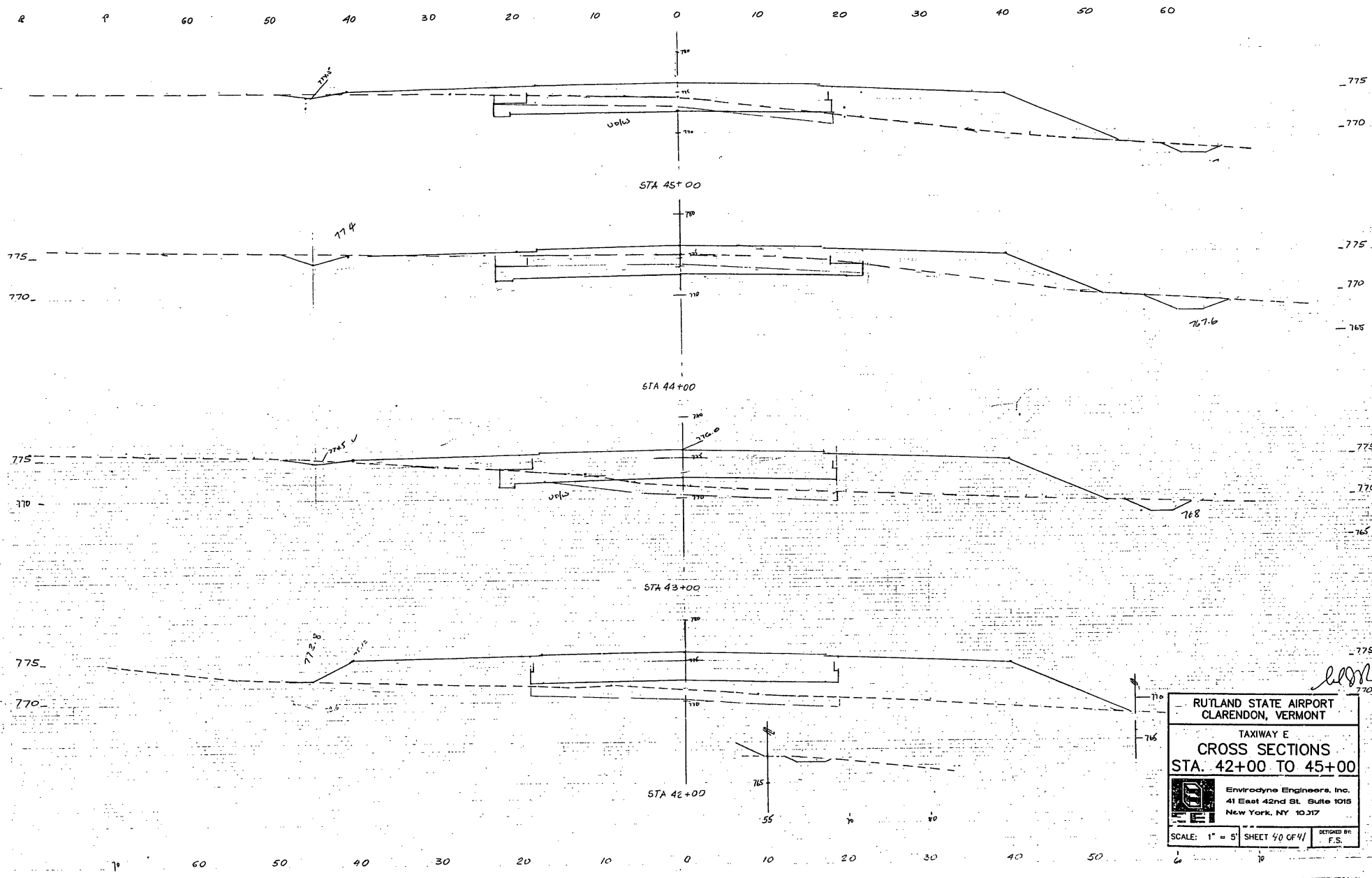


RUTLAND STATE AIRPORT CLARENDON, VERMONT	
TAXIWAY E CROSS SECTIONS STA. 34+00 TO 37+00	
	Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017
	SCALE: 1" = 5' SHEET 39 OF 41 DESIGNED BY: F.S.




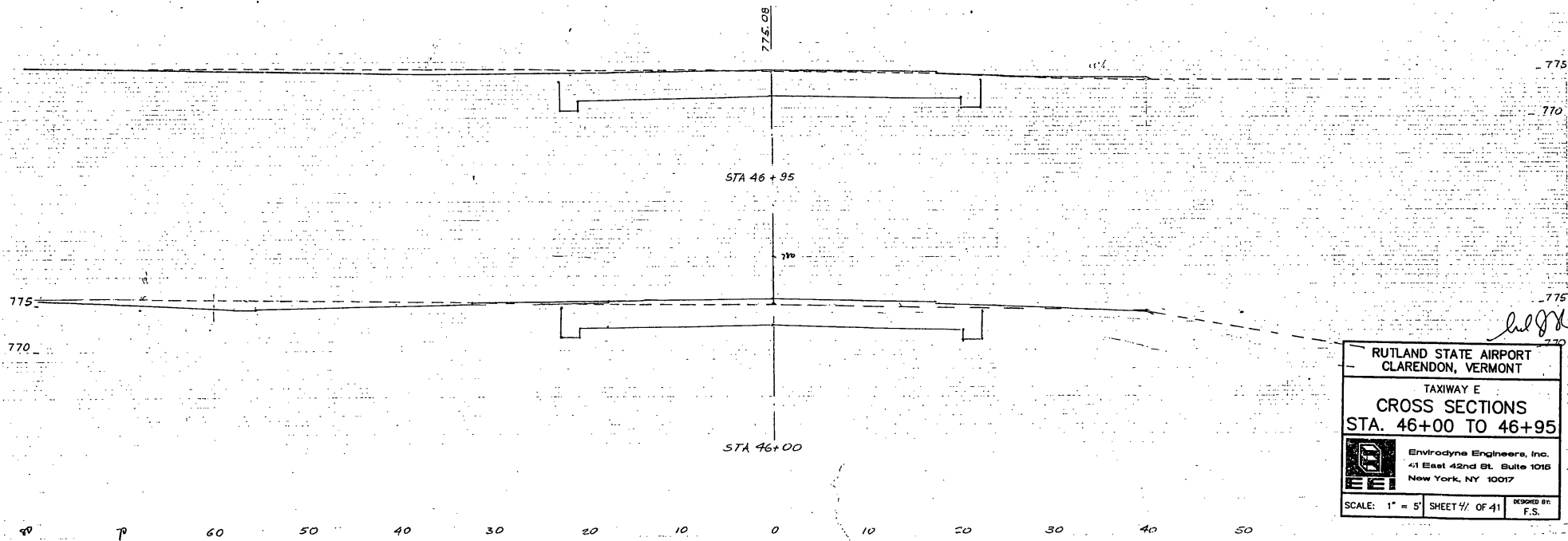
Handwritten signature


RUTLAND STATE AIRPORT CLARENDON, VERMONT		
TAXWAY E		
CROSS SECTIONS		
STA. 38+00 TO 41+00		
	Entradyns Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017	
SCALE: 1" = 5'	SHEET 37 OF 41	DESIGNED BY F.S.

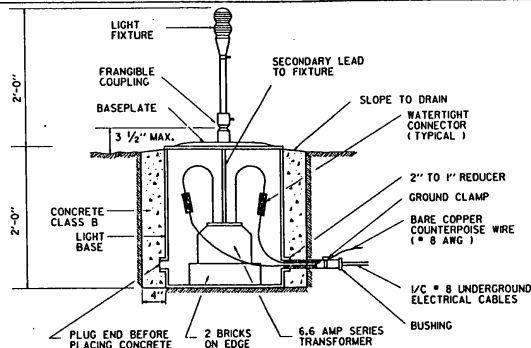


lrm

RUTLAND STATE AIRPORT CLARENDON, VERMONT	
TAXIWAY E CROSS SECTIONS STA. 42+00 TO 45+00	
 Envirodyne Engineers, Inc. 41 East 42nd St. Suite 1015 New York, NY 10017	
SCALE: 1" = 5'	DESIGNED BY: F.S.
SHEET 90 OF 91	



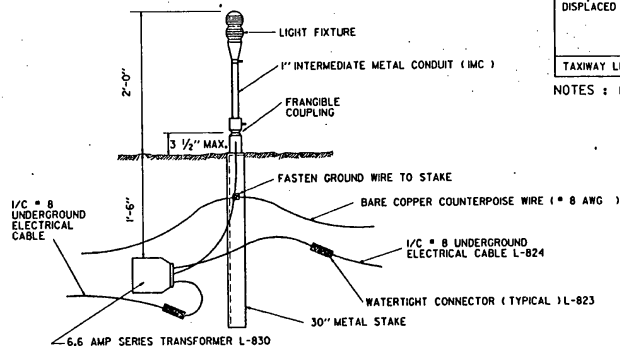
RUTLAND STATE AIRPORT CLARENDON, VERMONT	
TAXIWAY E	
CROSS SECTIONS	
STA. 46+00 TO 46+95	
	Envirodyne Engineers, Inc. 41 East 42nd St, Suite 1016 New York, NY 10017
SCALE: 1" = 5'	DESIGNED BY: F.S.
SHEET 41 OF 41	



- NOTES :
1. PROVIDE 3 FEET OF SLACK IN CABLES AT TRANSFORMER.
 2. SEAL END OF CONDUIT (DUCT SEAL)
 3. PROVIDE 1/2" PER FT. PITCH ON ALL CONDUITS

BASE MOUNTED UNIT

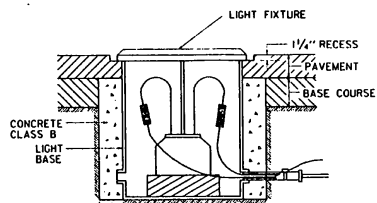
ELEVATED LIGHT
NO SCALE



- NOTES :
1. PROVIDE 3 FEET OF SLACK IN CABLES AT TRANSFORMER.
 2. 30" METAL STAKE SHALL BE MADE OF GALVANIZED STEEL ANGLE 2" x 2" x 1/4" WITH A SUITABLE TAPPED FITTING BOLTED AT THE TOP TO RECEIVE THE FRANGIBLE COUPLING.

STAKE MOUNTED UNIT

ELEVATED LIGHT
NO SCALE



NOTE : FOR ALL OTHER DETAILS, SEE BASE MOUNTED UNIT FOR ELEVATED LIGHT.

BASE MOUNTED UNIT

SEMI-FLUSH LIGHT
NO SCALE

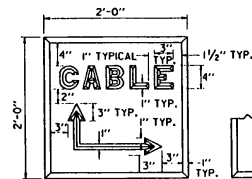
LIGHT LOCATION	LAMP		LENS
	MEDIUM INTENSITY	HIGH INTENSITY	
RUNWAY EDGE LIGHT	6.6A, 30W	6.6A, 15-120W	360° CLEAR 180° CLEAR/180° YELLOW
RUNWAY THRESHOLD LIGHT	6.6A, 45W	6.6A, 15-120W	180° RED/180° GREEN 360° RED
DISPLACED THRESHOLD LIGHT	6.6A, 30/45W		180° RED/180° CLEAR 180° OBSCURED/180° GREEN 180° CLEAR/180° GREEN
TAXIWAY LIGHT	6.6A, 30W		360° BLUE

NOTES : 1. SEE PLAN SHEET FOR LENS/LIGHT TYPE.

NOTE : AIRPORT LIGHT BASES SHOULD BE CONSTRUCTED TO FAA SPECIFICATIONS. SEE CURRENT ADVISORY CIRCULAR.

NOTES

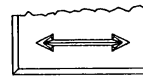
HAND LETTERING NOT ALLOWED ON CABLE OR SPLICE MARKERS. LETTERING WILL BE EMBOSSED (V-CUT 1/2" DEEP).



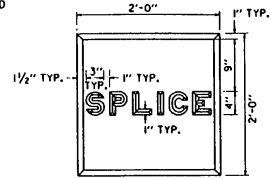
PLAN VIEW WITH ARROW INDICATING DIRECTION OF CABLE.

CABLE MARKER

ARROW ON CABLE MARKERS WILL INDICATE DIRECTION OF CABLE, AS SHOWN ON PLAN VIEWS BELOW.

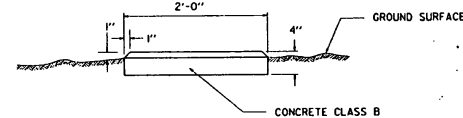


PARTIAL PLAN VIEW WITH ARROW INDICATING STRAIGHT-LINE CABLE INSTALLATION.

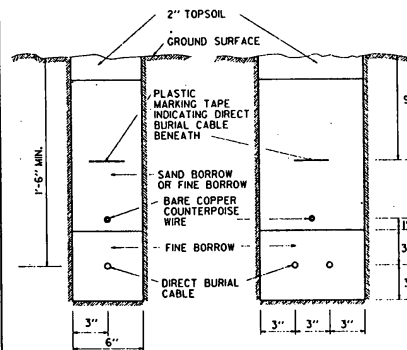


PLAN VIEW
SPLICE MARKER

NOTE : SEE STANDARD AP-3 FOR UNDERGROUND ELECTRICAL DUCT DETAILS.



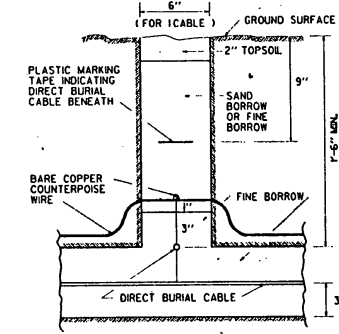
ELEVATION VIEW (TYPICAL FOR CABLE AND SPLICE MARKERS)
CABLE AND SPLICE MARKERS
NO SCALE



SINGLE CABLE INSTALLATION

TWO CABLE INSTALLATION

NOTE : FOR MULTIPLE-CABLE INSTALLATIONS, PROVIDE 3" ADDITIONAL TRENCH WIDTH FOR EACH ADDITIONAL CABLE.



CABLE TRENCH WITH CABLE CROSSING

NOTE : UNDERGROUND ELECTRICAL CABLE SHOULD BE CONSTRUCTED TO FAA SPECIFICATION. SEE CURRENT ADVISORY CIRCULAR.

UNDERGROUND ELECTRICAL CABLE INSTALLATION
TRENCH DETAILS
(IN EARTH OR ROCK)
NO SCALE

REVISIONS AND CORRECTIONS
SHEET UPDATED MARCH 1, 1990

APPROVED

March 2, 1990
DATE

Director of Planning and Construction
DIRECTOR, PLANNING AND CONSTRUCTION
Director of Design
DIRECTOR, DESIGN DIVISION

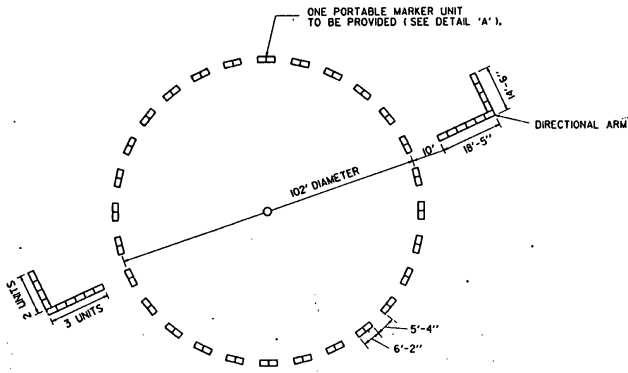
LIGHTING & ELECTRICAL DETAILS



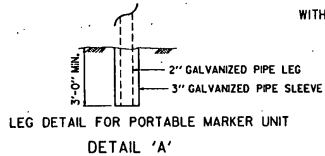
**STANDARD
AP-2**

NOTES

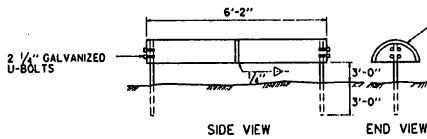
1. THE LOCATION OF THE PORTABLE MARKER UNIT SHALL BE AS ORDERED BY THE ENGINEER.
2. DIRECTIONAL ARMS ARE INSTALLED ONLY ON AIRPORTS WITH A NON-STANDARD TRAFFIC PATTERN (RIGHT-HAND PATTERN). WHEN INSTALLED, DIRECTIONAL ARMS WILL BE MAGNETICALLY ORIENTED TO THE RUNWAY AND WILL SHOW TRAFFIC PATTERN ON EACH RUNWAY.



SEGMENTED CIRCLE LAYOUT WITH DIRECTIONAL ARMS

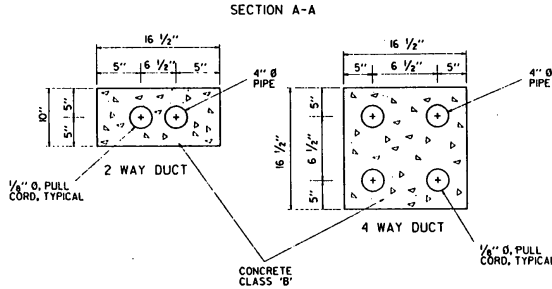


LEG DETAIL FOR PORTABLE MARKER UNIT DETAIL 'A'



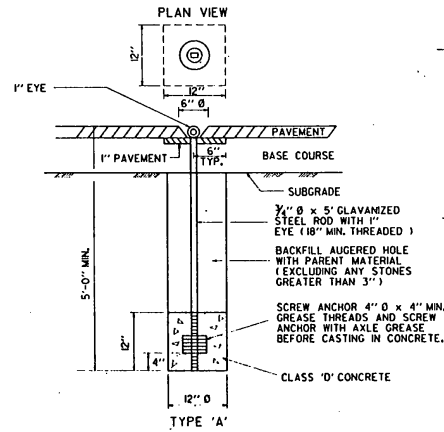
SEGMENTED CIRCLE MARKER UNIT

PORTABLE UNIT HAS LEGS OF 2" Ø GALVANIZED PIPE. STATIONARY UNITS HAVE LEGS OF 2" Ø GALVANIZED PIPE OR 1 1/2" x 3/8" L 1 GALV. I.

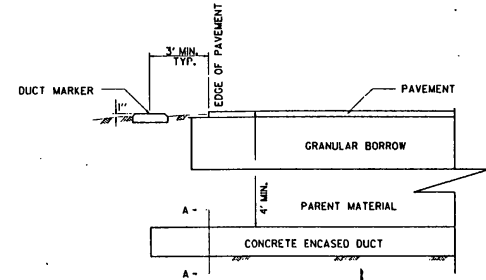


ALL DUCTS, EXCEPT STEEL CONDUIT, INSTALLED UNDER RUNWAYS, TAXIWAYS, APRONS, AND OTHER PAVED AREAS SHALL BE ENCASED IN A CONCRETE ENVELOPE

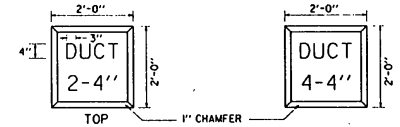
SEE STANDARD AP-2 FOR DIRECT BURIAL CABLE DETAILS.



AIRCRAFT TIE DOWN ANCHOR

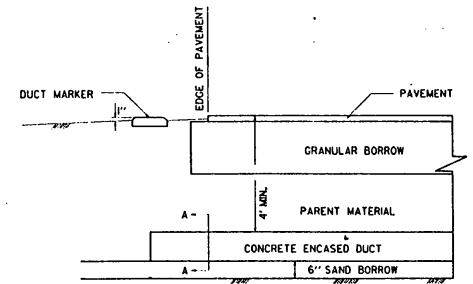


AIRPORT UNDERGROUND ELECTRICAL DUCT (IN EARTH)



DUCT MARKERS

- NOTES
1. LETTERING ON DUCT MARKERS TO BE EMBOSSED, 1/4" CUT, 1/2" DEEP.
 2. HAND LETTERING NOT ALLOWED



AIRPORT UNDERGROUND ELECTRICAL DUCT (IN ROCK)

REVISIONS AND CORRECTIONS
SHEET UPDATED MARCH 5, 1990

APPROVED

March 13 1990
DATE

Stephen D. McArthur
DIRECTOR, PLANNING AND
PRECONSTRUCTION
C. Lynn Munn
DIRECTOR, DESIGN DIVISION

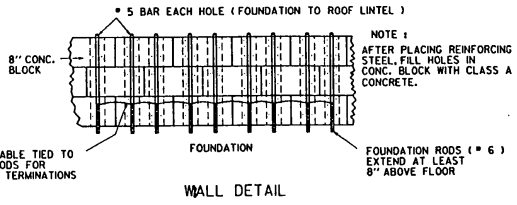
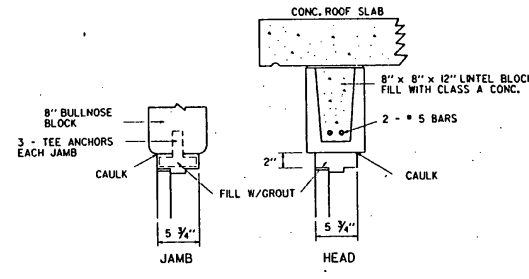
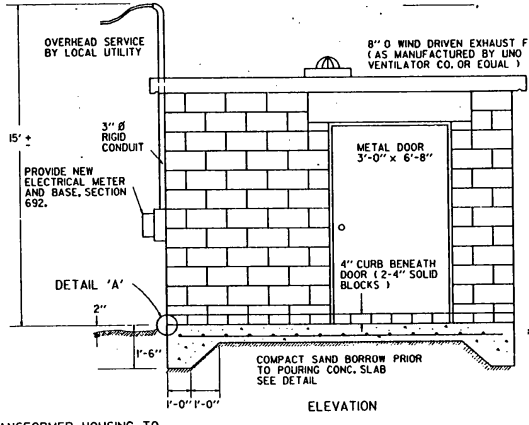
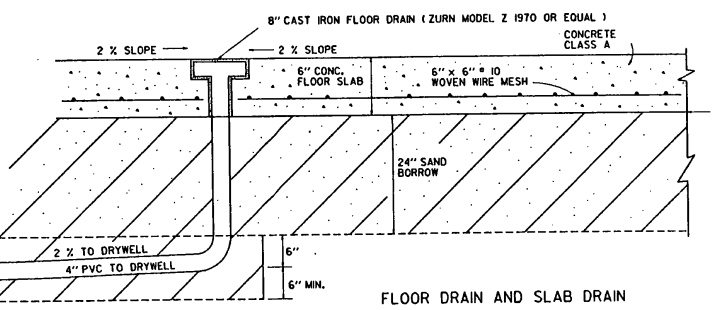
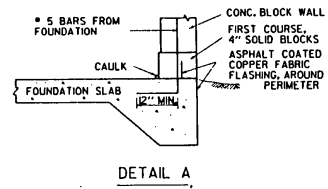
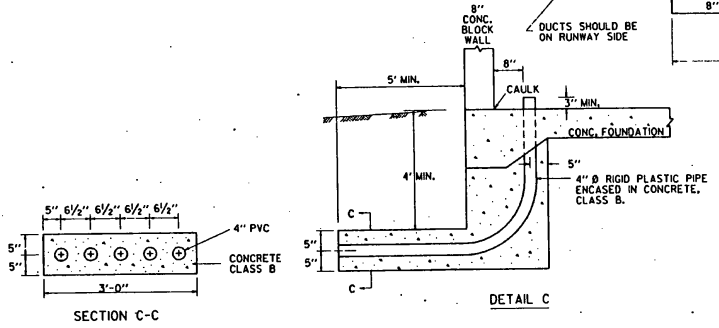
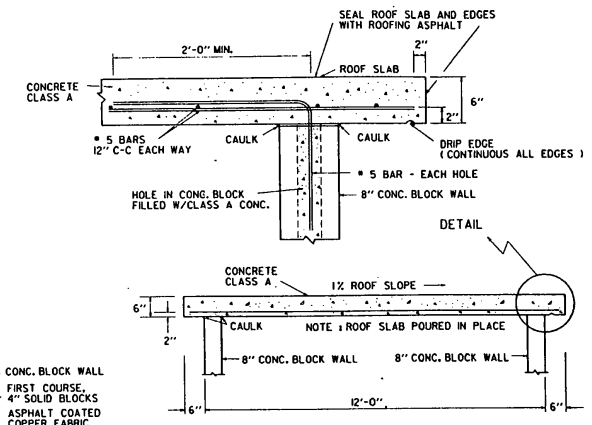
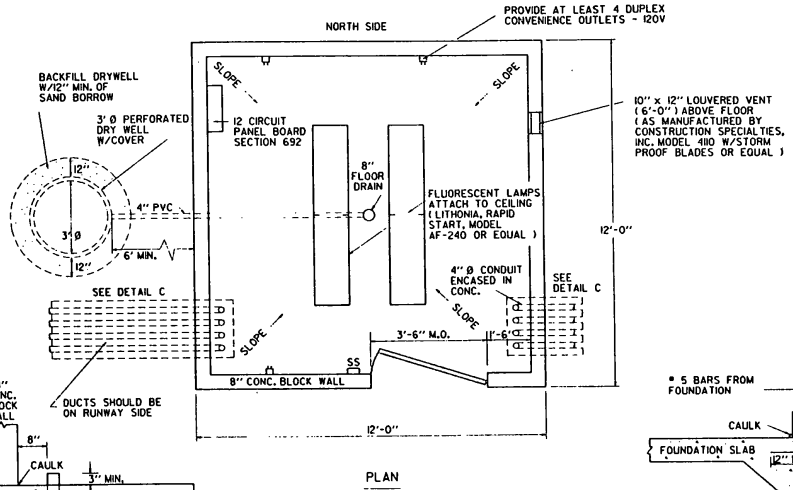
MISCELLANEOUS AIRPORT DETAILS



STANDARD
AP-3

NOTES

- 1 MOUNT CONTACTORS, BOOSTER TRANSFORMERS AND MISC. HARDWARE ON SAME WALL AS NEW 12 CIRCUIT PANEL BOX.
- 2 PROVIDE GROUND BUS BENEATH 12 CIRCUIT PANEL BOX.
- 3 INSTALL ELECTRIC PANEL ON 3/4" PLYWOOD, SET OFF FROM WALL ON 2" x 4" S. ALL WOOD TO BE PAINTED.
- 4 PROVIDE AT LEAST 1% ROOF SLOPE (TO EAST).
- 5 FOUNDATION FLOOR TO SLOPE TO CENTER OF VAULT.
- 6 FIRST COURSE OF BLOCKS ON FOUNDATION TO BE TWO 4" SOLID BLOCKS WITH COPPER FABRIC FLASHING BETWEEN - SEE DETAIL A.
- 7 PROVIDE ALUMINUM BIRD AND INSECT SCREEN AT AIR INTAKE ON LOUVER AND EXHAUST VENT.
- 8 CAULK AT ALL METAL TO CONCRETE INTERFACES.
- 9 PROVIDE DOOR BUMPER ON WALL AND STRIKE SIDE OF JAMB.
- 10 ELECTRICAL PANEL BOARD AND METER INCLUDED IN AIRPORT TRANSFORMER VAULT EQUIP.
- 11 CONCRETE BLOCK WALLS AND CONCRETE CEILING SHALL BE SEALED WITH TWO COATS OF APPROVED SEALER. A FINAL COAT OF WHITE PAINT SHALL BE APPLIED OVER THE SEALER.
- 12 ALL CAULKING SHALL BE ASPHALTIC JOINT COMPOUND.



NOTE: AIRPORT TRANSFORMER HOUSING TO BE CONSTRUCTED AS PER CURRENT FAA ADVISORY CIRCULAR.

AIRPORT TRANSFORMER VAULT

WALL DETAIL

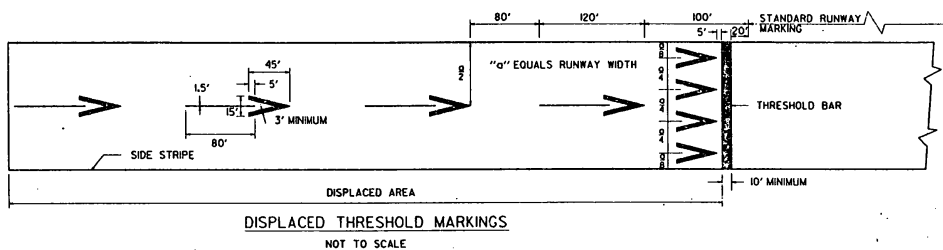
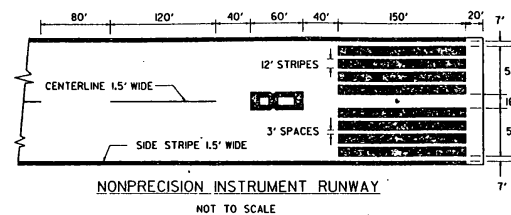
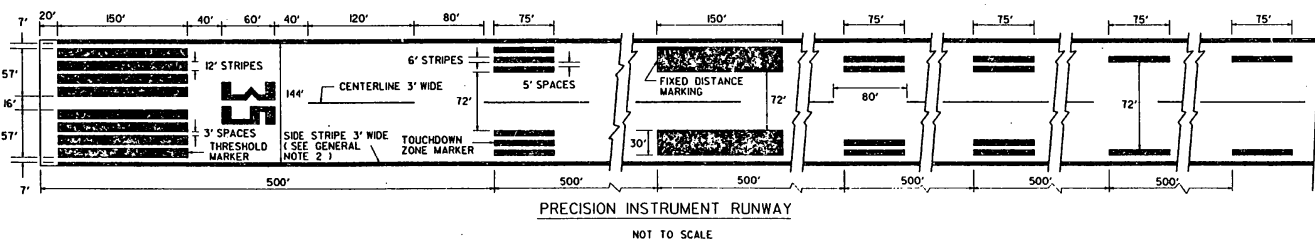
REVISIONS AND CORRECTIONS
SHEET UPDATED MARCH 1, 1990

APPROVED *March 12, 1990*
DATE
Stephen C. McArthur
DIRECTOR, PLANNING AND
PRECONSTRUCTION
David M. ...
DIRECTOR, DESIGN DIVISION

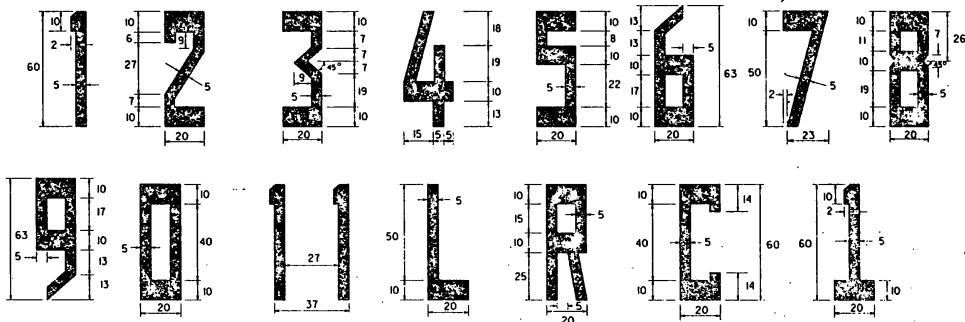
TRANSFORMER VAULT DETAILS



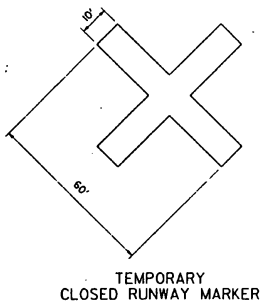
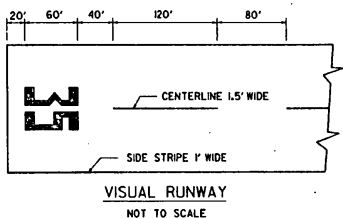
**STANDARD
AP-9**



- NOTES**
1. FOUR ARROWHEADS ARE PLACED SYMMETRICALLY ACROSS RUNWAY WITH UNIFORM LATERAL SPACING AS INDICATED.
 2. ALL MARKINGS IN THE DISPLACED AREA ARE YELLOW EXCEPT THE THRESHOLD BAR WHICH IS WHITE.
 3. RUNWAY SIDE STRIPES, WHEN USED ON THE RUNWAY, EXTEND INTO THE DISPLACED AREA.



- NOTES**
1. ALL LETTERS AND NUMERALS, EXCEPT THE NUMBER ELEVEN AS SHOWN, ARE HORIZONTALLY SPACED 15 FEET APART.
 2. DIMENSIONS ARE EXPRESSED IN FEET.
 3. THE NUMERAL ONE, WHEN USED ALONE, CONTAINS A HORIZONTAL BAR TO DIFFERENTIATE IT FROM THE RUNWAY CENTERLINE MARKING.



- TEMPORARY CLOSED RUNWAY MARKER NOTES :**
1. MARKERS TO BE YELLOW PLYWOOD OR SNOW FENCE.
 2. MARKERS TO BE SUBSIDIARY TO OTHER PAY ITEMS.
 3. MARKERS TO BE PLACED OVER RUNWAY NUMERALS OR OFF THE RUNWAY ENDS AS APPLICABLE.
 4. MARKERS TO BE ANCHORED TO THE SATISFACTION OF THE ENGINEER.

- GENERAL NOTES**
1. ALL RUNWAY MARKINGS ARE WHITE EXCEPT IN THE DISPLACED THRESHOLD AREA AND NON FULL STRENGTH SHOULDER MARKINGS.
 2. FOR RUNWAYS LESS THAN 150' IN WIDTH, THE WIDTH OF THE MARKINGS, SPACES BETWEEN MARKINGS, AND DISTANCE OF MARKINGS FROM THE RUNWAY EDGE ARE CHANGED PROPORTIONALLY.
 3. ADJUSTMENTS TO THE LENGTH OF THE CENTERLINE STRIPES AND GAPS, WHERE NECESSARY TO ACCOMMODATE THE RUNWAY LENGTH, ARE MADE NEAR THE RUNWAY MIDPOINT.
 4. ALL RUNWAY MARKINGS ARE TO BE STRIATED WITH ALL STRIPES AND SPACES EQUAL IN WIDTH (4" TO 6").

NOTE :
MARKING OF RUNWAY SHOULD BE BASED ON FAA SPECIFICATIONS. SEE CURRENT FAA ADVISORY CIRCULAR.

REVISIONS AND CORRECTIONS
SHEET UPDATED MARCH 5, 1990

APPROVED *Marcus J. 12/1990*
DATE

George S. The Orlan
DIRECTOR, PLANNING AND
PRECONSTRUCTION

Robert M. ...
DIRECTOR, DESIGN DIVISION

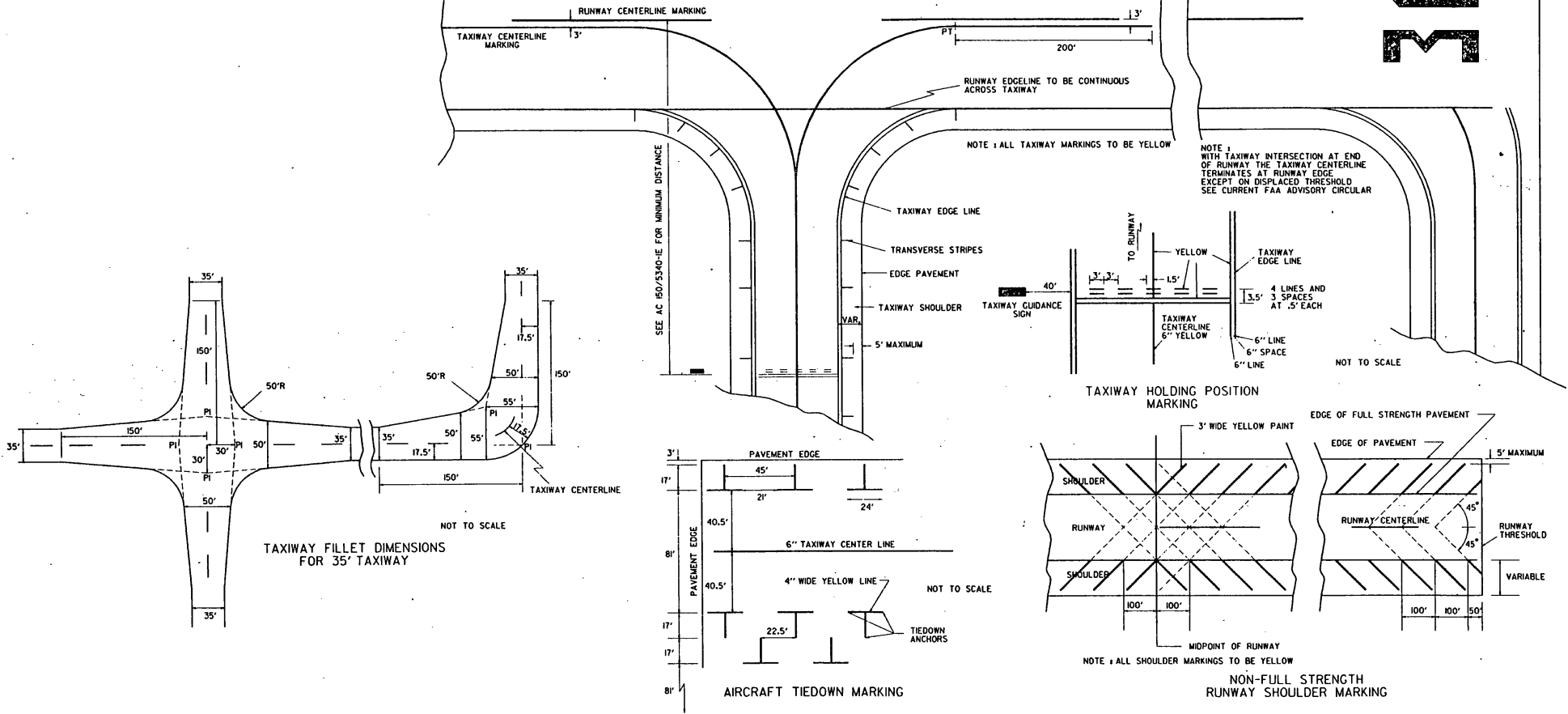
RUNWAY MARKING DETAILS



**STANDARD
AP-10**

NOTE 1:
ON LIGHT COLORED PAVEMENTS THE CONTRAST OF THE MARKINGS IS
TO BE INCREASED BY OUTLINING ALL MARKINGS WITH A 6" BLACK BORDER.

SEE STANDARD AP-10 FOR RUNWAY MARKING DETAILS



TAXIWAY FILLET DIMENSIONS
FOR 35' TAXIWAY

TAXIWAY HOLDING POSITION
MARKING

AIRCRAFT TIEDOWN MARKING

NON-FULL STRENGTH
RUNWAY SHOULDER MARKING

REVISIONS AND CORRECTIONS
SHEET UPDATED MARCH 1, 1990

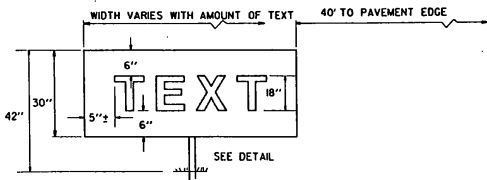
APPROVED *March 11, 1990*
DATE

Stephen B. MacArthur
DIRECTOR, PLANNING AND
RECONSTRUCTION
Robert M. Mather
DIRECTOR, DESIGN DIVISION

TAXIWAY AND APRON MARKING DETAILS

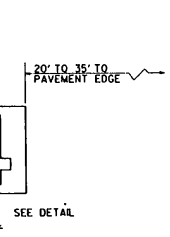
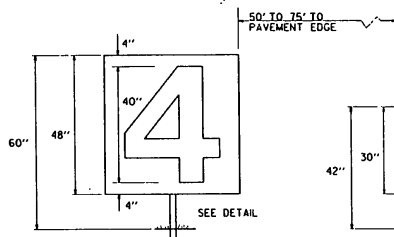


STANDARD AP-11



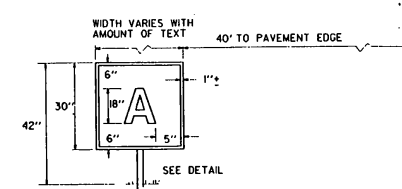
MANDATORY SIGNS

- MANDATORY SIGNS HAVE WHITE INSCRIPTIONS ON A RED BACKGROUND
- SIGNS TO BE LIGHTED WHEN USED ON CERTIFICATED AIRPORTS OR OTHER AIRPORTS HAVING INSTRUMENT OPERATIONS.
- UNLIGHTED, RETROREFLECTIVE SIGNS MAY BE USED AT GENERAL AVIATION AIRPORTS HAVING ONLY VISUAL FLIGHT (VFR) OPERATIONS.



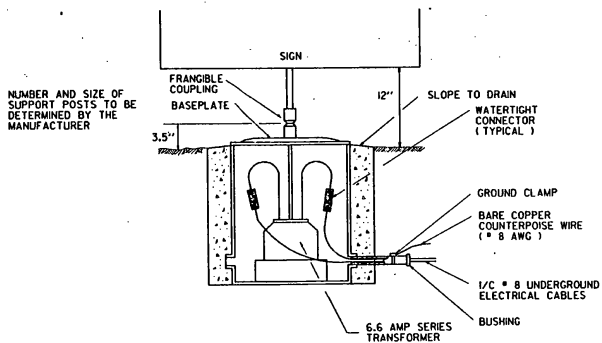
RUNWAY DISTANCE REMAINING SIGNS

- SIGNS HAVE WHITE INSCRIPTIONS ON A BLACK BACKGROUND.
- LARGE SIGNS USED IF PLACED 50 TO 75 FEET FROM PAVEMENT EDGE.
- SMALL SIGNS USED IF PLACED 20 TO 35 FEET FROM PAVEMENT EDGE.
- SIGN SIZE SHOULD BE CONSISTANT ALONG LENGTH OF EACH RUNWAY.
- ONLY LIGHTED SIGNS ARE USED FOR RUNWAY DISTANCE REMAINING SIGNS.
- SIGNS TO BE DOUBLE-SIDED, PREFERABLY LOCATED ON THE LEFT SIDE OF RUNWAY AS VIEWED FROM THE MOST OFTEN USED DIRECTION.

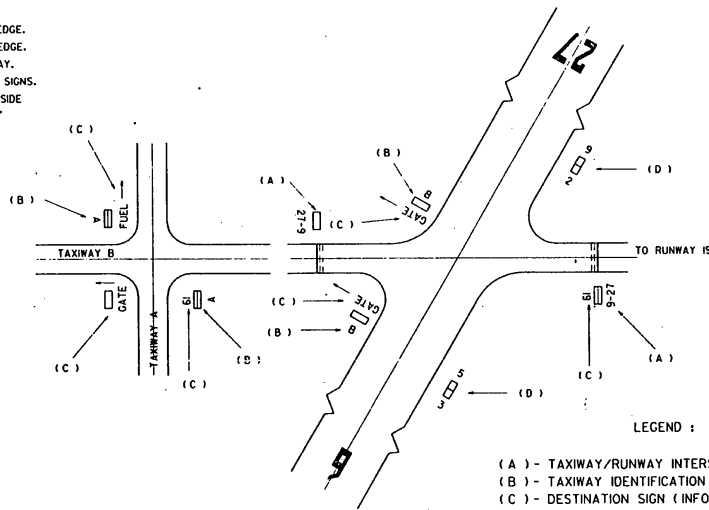


INFORMATION SIGNS

- INFORMATION SIGNS HAVE BLACK INSCRIPTIONS ON A YELLOW BACKGROUND, AND HAVE A BLACK BORDER.



BASE FOR LIGHTED SIGNS
DETAIL



TYPICAL SIGN APPLICATIONS

LEGEND :

- (A) - TAXIWAY/RUNWAY INTERSECTION SIGN (MANDATORY TYPE)
- (B) - TAXIWAY IDENTIFICATION SIGN (INFORMATION TYPE)
- (C) - DESTINATION SIGN (INFORMATION TYPE)
- (D) - RUNWAY DISTANCE REMAINING SIGN

REFER TO CURRENT FAA ADVISORY CIRCULAR .

REVISIONS AND CORRECTIONS
SHEET UPDATED MARCH 1, 1990

APPROVED *[Signature]* 11/1990
DATE

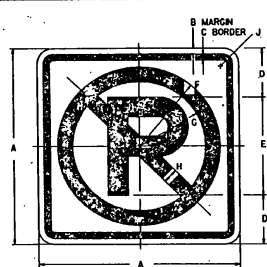
[Signature]
DIRECTOR, PLANNING AND
PRECONSTRUCTION

[Signature]
DIRECTOR, DESIGN DIVISION

SIGN SYSTEMS

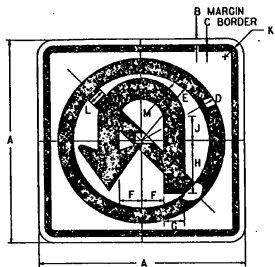


STANDARD
AP-12



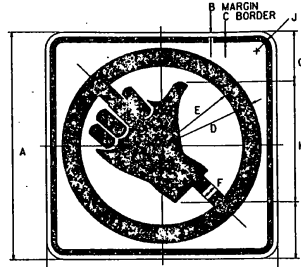
COLORS
CIRCLE AND DIAGONAL - RED (REFL - RURAL)
SYMBOL AND BORDER - BLACK (NON - REFL)
BACKGROUND - WHITE (REFL - RURAL)

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
URBAN MIN. AND STD.	12	3/8	3/8	3	6E(M)	4 3/4	3 1/2	1	1/2		
RURAL MIN. AND STD.	24	3/8	3/8	6	12E(M)	10 1/2	8 1/2	2	1/2		
EXPWY.	36	3/8	3/8	9	18E(M)	15 3/4	12 3/4	3	2/4		
FWY.	48	3/4	1/2	12	24E(M)	21	17	4	3		



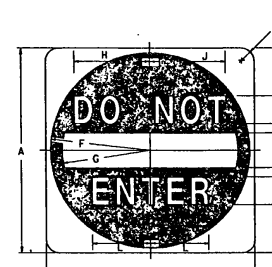
COLORS
CIRCLE AND DIAGONAL - RED (REFL)
ARROW AND BORDER - BLACK (NON - REFL)
BACKGROUND - WHITE (REFL)

SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	
MIN. AND STD.	24	3/8	3/8	10 1/4	8 1/2	2 1/2	2 1/2	6	2 1/4	1 1/2	2	5
SPECIAL	30	1/2	3/4	13 1/4	10 3/4	3 3/4	3 3/4	7 1/2	2 3/4	1 3/4	2 1/2	6 1/4
EXPWY.	36	3/4	3/4	15 3/4	12 3/4	3 3/4	3 3/4	9	3 3/4	2 1/4	3	7 1/2
SPECIAL	48	3/4	1/2	21	17	5	5	12	4 1/2	3	4	10



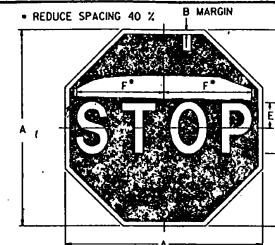
COLORS
CIRCLE AND DIAGONAL - RED (REFL)
SYMBOL AND BORDER - BLACK (NON - REFL)
BACKGROUND - WHITE (REFL)

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
MIN.	18	3/8	3/8	7 1/4	6 3/4	1 1/2	3 3/4	10 1/2	1 1/2		
STD.	24	3/8	3/8	10 1/4	8 1/2	2	5	14	1 1/2		



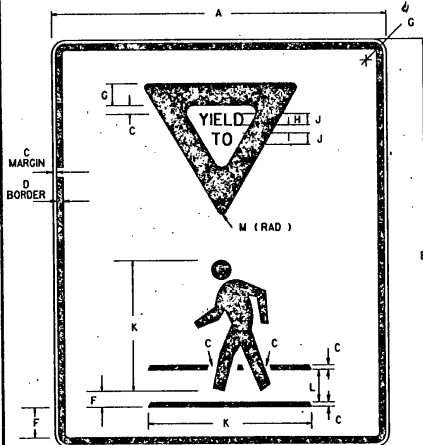
COLORS
SYMBOL - RED (REFL)
LEGEND AND BACKGROUND - WHITE (REFL)
ENCAPSULATED LENS

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
MIN. AND STD.	30	6 1/4	4D	2	5	14 1/2	12 1/2	9 3/4	10	1 1/4	1 3/4
EXPWY.	36	7 1/2	5D	2 1/2	6	17 1/2	15	12	12 3/4	2 1/4	2 3/4
SPECIAL	48	11	6D	3	8	23 1/2	20	14 1/2	15	3	3 3/4



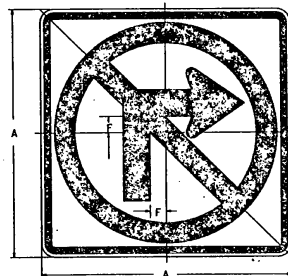
COLORS
LEGEND - WHITE (REFL)
BACKGROUND - RED (REFL)
ENCAPSULATED LENS

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	I	J	K
BIKE	18	3/8	5/8	6C	3	7 1/4					
MIN.	24	3/8	1	8C	4	10					
STD.	30	3/4	1 1/8	10C	5	12 1/2					
EXPWY.	36	3/4	1 1/2	12C	6	15					
SPECIAL	48	1 1/4	1 7/8	16C	8	20					

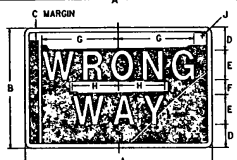


COLORS
LEGEND, SYMBOL, BORDER - BLACK
BACKGROUND - WHITE (REFL)
TRIANGLE - RED (REFL)

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
SMALL	18	24	3/8	1 1/8	1 1/4	1 1/4	3/4	1 1/2	9	1 1/4	1 1/4
LARGE	24	30	1/2	1 3/4	1 3/4	1 1/2	1 1/2	2	12	2 1/4	2 1/4

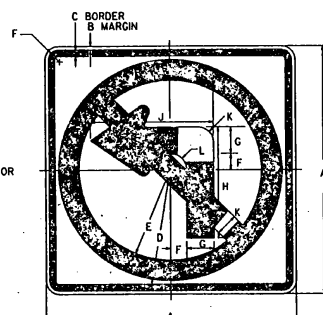


DETAILS SAME FOR EACH SIGN



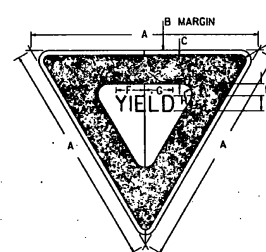
COLORS
LEGEND - WHITE (REFL)
BACKGROUND - RED (REFL)
ENCAPSULATED LENS

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
MIN. AND STD.	30	18	3/8	3	5D	2	8 1/2	6 1/2	10 1/2		
STD.	36	24	3/4	4 1/4	6D	3	13 1/4	8 1/4	14 1/2		
SPECIAL	42	30	3/4	5	8D	4	17 1/4	10 1/4	17 1/2		



COLORS
CIRCLE AND DIAGONAL - RED (REFL)
ARROW AND BORDER - BLACK (NON - REFL)
BACKGROUND - WHITE (REFL)

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
MIN. AND STD.	24	3/8	3/8	10 1/4	8 1/2	1 1/2	2 1/2	10 1/4	1 1/2	2	5
SPECIAL	30	1/2	3/4	13 1/4	10 3/4	1 3/4	3 3/4	13 1/4	1 3/4	2 1/2	6 1/4
EXPWY.	36	3/4	3/4	15 3/4	12 3/4	2 1/4	3 3/4	15 3/4	1 3/4	3	7 1/2
SPECIAL	48	3/4	1/2	21	17	3	5	21	2 3/4	4	10



COLORS
LEGEND AND BORDER - RED (REFL)
BACKGROUND - WHITE (REFL)
ENCAPSULATED LENS

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
MIN.	24	3/8	3/8	2C	3 1/4	3	3 1/4	1 1/2			
STD.	30	3/4	1	4 1/4	4 1/4	3 3/4	3 3/4	2 1/4			
EXPWY.	48	1 1/2	1 1/2	6 1/2	6 1/2	5 1/4	5 1/4	4 1/4			
SPECIAL	60	1 1/2	1 1/2	8 1/2	8 1/2	7 1/4	7 1/4	5 1/4			

COLORS:

THE REGULATORY SIGNS SHOWN ON THIS SHEET SHALL BE AS DETAILED FOR EACH SIGN. THE COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

MATERIALS:

THE SIGN BASE MATERIALS USED FOR THE REGULATORY SIGNS SHOWN ON THIS SHEET MAY BE ANY FOLLOWING OF THE MINIMUM THICKNESS NOTED.

24" x 24"	36" x 24"	36" x 36"	48" x 24"
24" x 30"	30" x 36"	36" x 48"	48" x 36"
30" x 30"	30" x 48"	48" x 48"	60" x 48"
0.002"	0.002"	0.002"	0.002"
18 GAGE	16 GAGE	14 GAGE	12 GAGE

FLAT SHEET ALUMINUM
HIGH DENSITY OVERLAP PLYWOOD
GALVANIZED FLAT SHEET STEEL

ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR THE SIGN BACKGROUND WHERE NOTED.

THE BLACK PORTIONS OF THE SIGNS MAY BE LETTERING FILM, SILK SCREENING OR HAND PAINTED. WHEN HAND PAINTED, POOR WORKMANSHIP SHALL BE CAUSE FOR REJECTION.

SPECIFICATIONS:
REGULATORY SIGNS SHALL MEET THE VERMONT STANDARD SPECIFICATIONS FOR "TRAFFIC SIGNS".

TEXT DESIGN:
LETTERS, DIGITS, ARROW, SPACINGS AND TEXT DIMENSIONS SHALL CONFORM WITH THE STANDARD ALPHABETS AND DESIGNS PRESCRIBED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

REVISIONS AND CORRECTIONS

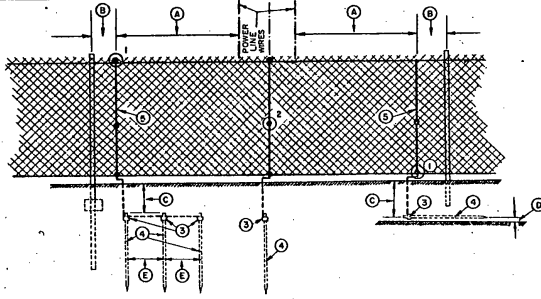
APPROVED

OCT. 30, 1987
DATE
David G. Kelley
CHIEF ENGINEER
Arthur Jones
DIRECTOR OF PLANNING
AND PRE-CONSTRUCTION
Stephen B. McAllen
TRAFFIC AND SAFETY ENGINEER

REGULATORY SIGN DETAILS

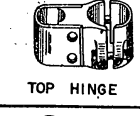
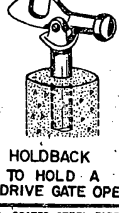
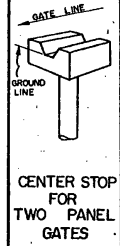
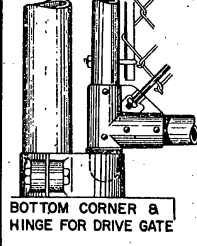
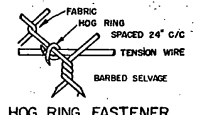
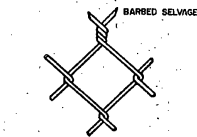
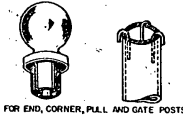
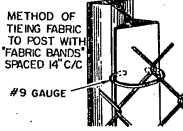
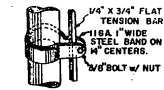
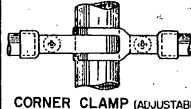
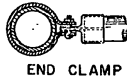


STANDARD E-143



- Ⓐ 25'-0" OR TO 1.0' ± 0.5" FROM NEAREST FENCE POST (AT RIGHT ANGLE TO POWER LINE)
- Ⓑ MAXIMUM DISTANCE 1.0' (± 0.5')
- Ⓒ MINIMUM DISTANCE 1.0' (± 1.0')
- Ⓓ 2.0' (± 0.5')
- Ⓔ MINIMUM DISTANCE 6.0'
- Ⓚ CONNECTOR, SUITABLE FOR WIRE GAUGES UTILIZED AND FOR DISSIMILAR METALS
- Ⓛ CONDUCTOR NO. 6 AWG COPPER SOFT DRAWN OR NO. 4 AWG ALUMINUM

INSTALLATION METHOD OF PROTECTIVE GROUNDING AT POWER LINE CROSSINGS



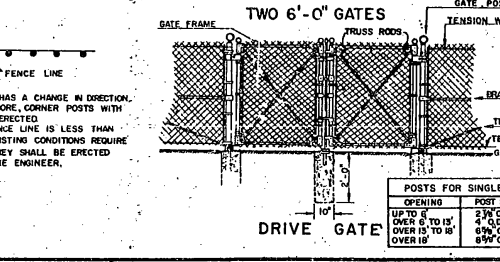
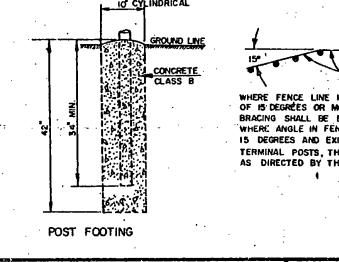
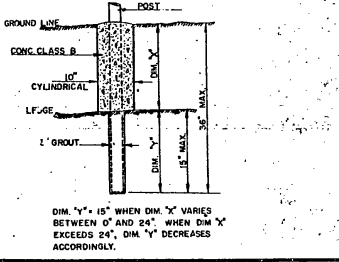
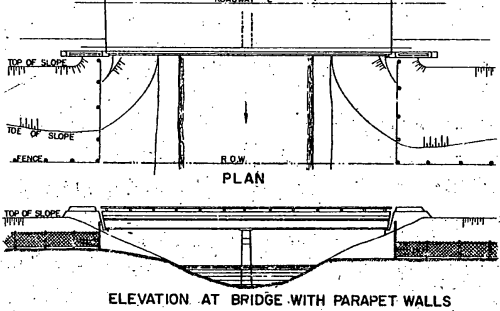
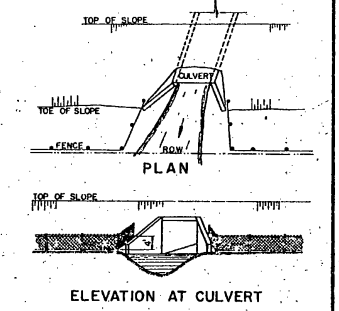
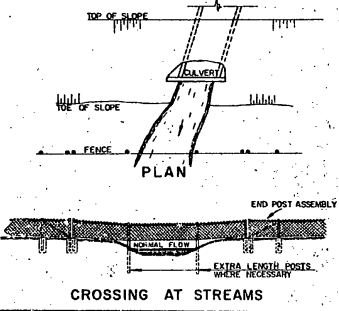
GENERAL NOTES (ZINC-COATED STEEL FABRIC, ALUMINUM-COATED STEEL FABRIC, VINYL COATED FABRIC)

HEIGHT... AS NOTED ON PLANS.
 FABRIC... CHAIN LINK, # 9 GAUGE WIRE, WOVEN IN A 2' MESH. TOP AND BOTTOM SELVAGES TO BE BARBED. THE BOTTOM SELVAGE TO BE 2" ABOVE THE GROUND LINE, THE TOP SELVAGE TO BE 1" ABOVE THE TENSION WIRE. WHERE FENCE IS 4 FT. THE TOP EDGE SHALL BE KNUCKLED.
 LINE POSTS... 2" X 2 1/4" H" COLUMN, WEIGHT 4.1 LBS. PER FOOT OR 2 3/8" O.D. PIPE, WEIGHT 3.65 LBS. PER FOOT OR APPROVED EQUAL FOR FENCE 4'-0" AND OVER IN HEIGHT. FOR FENCE LESS THAN 6'-0" IN HEIGHT, 1 1/2" COLUMNS WEIGHING 2.70 LBS PER FOOT SHALL BE USED.
 TERMINAL POSTS... END, CORNER AND PULL POSTS, SHALL BE 2 3/8" O.D. PIPE, WEIGHING 5.79 LBS. PER FOOT FOR FENCE 6'-0" AND OVER IN HEIGHT FOR FENCE LESS THAN 6'-0" IN HEIGHT, 2 3/8" O.D. PIPE, WEIGHING 3.65 LBS PER FOOT, SHALL BE USED.
 POST SPACING... POSTS SHALL BE SPACED EQUIDISTANT ON A MAXIMUM OF 10 FEET CENTER TO CENTER EXCEPT GATE POSTS, WHICH SHALL BE SPACED ACCORDING TO THE REQUIRED GATE OPENING.
 POST FOOTINGS... ALL POSTS SHALL BE SET TO A DEPTH OF 2 FEET 10 INCHES IN A 10" DIAMETER CYLINDRICAL SHAPED HOLE 3'-4" DEEP, FILLED WITH CONCRETE.
 ALL FITTINGS AND HARDWARE SHALL BE AS SHOWN ON THIS SHEET OR EQUAL.

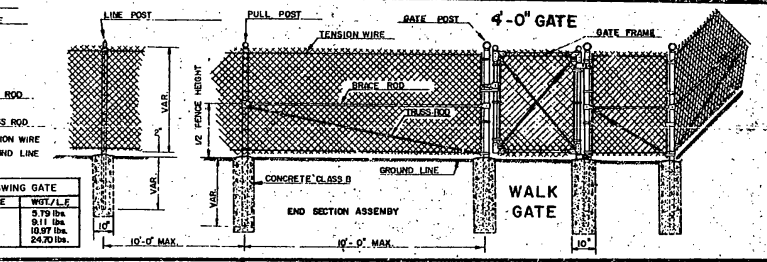
THE EXPOSED SURFACE OF ALL TOPS OF FOOTINGS TO BE SLOPED TO SHED WATER AND PROVIDE A NEAT APPEARANCE WHEN COMPLETED.

FABRIC TIES... FABRIC TO BE FASTENED TO POSTS AND GATE FRAMES WITH # 9 GAUGE WIRE.
 TRUSS RODS... SHALL BE 3/8" DIAMETER DIAGONAL BARS WITH TURNBUCKLE.
 BRACE RODS... SHALL BE 1/2" O.D. PIPE.
 TENSION BARS... SHALL BE FLAT 1/4" X 3/4" BARS WITH SQUARE EDGES.
 TENSION WIRE... SHALL BE # 9 GAUGE WIRE ATTACHED 1" BELOW TOP SELVAGE AND 2" ABOVE BOTTOM SELVAGE OF FABRIC BY MEANS OF HOG RINGS ON 24" CENTERS.
 GATES... GATE FRAMES SHALL BE 1 1/2" O.D. PIPE ASSEMBLED BY WELDING, RIVETING OR BOLTING AND TO BE FURNISHED WITH ALL THE NECESSARY FITTINGS OVER 6'-0". GATE FRAMES SHALL BE 1 1/2" O.D. PIPE ASSEMBLED BY WELDING, RIVETING OR BOLTING AND TO BE FURNISHED WITH ALL THE NECESSARY FITTINGS 6'-0" AND LESS.
 END SECTION ASSEMBLY... TO BE ERRECTED ON A MAXIMUM OF 200 FEET CENTER TO CENTER.

THE WEIGHT TOLERANCE IS 5 PER CENT ABOVE AND 5 PER CENT BELOW. THE TUBULAR SIZES ARE NOMINAL.



POSTS FOR SINGLE SWING GATE		
OPENING	POST SIZE	WGT./L.F.
UP TO 6'	2 3/8" O.D.	5.79 lbs.
OVER 6' TO 10'	3" O.D.	8.11 lbs.
OVER 10' TO 15'	3 1/2" O.D.	10.97 lbs.
OVER 15'	4" O.D.	24.70 lbs.



REVISIONS AND CORRECTIONS
 JULY 28, 1975 - VINYL COATED FABRIC ADDED
 FEBRUARY 1, 1979 - CHANGE TOP RAIL TO TENSION WIRE.

APPROVED DATE Dec. 6, 1971
 R.H. Cinnell
 CHIEF ENGINEER
 E.H. Steinhilber
 ASST. CHIEF ENGINEER
 G.M. Lane
 HIGHWAY ENGINEER

CHAIN-LINK FENCE (TYPE I)
DRIVE GATE FOR CHAIN-LINK FENCE (TYPE I)
WALK GATE FOR CHAIN-LINK FENCE (TYPE I)

VERMONT AGENCY OF TRANSPORTATION

STANDARD

F-2