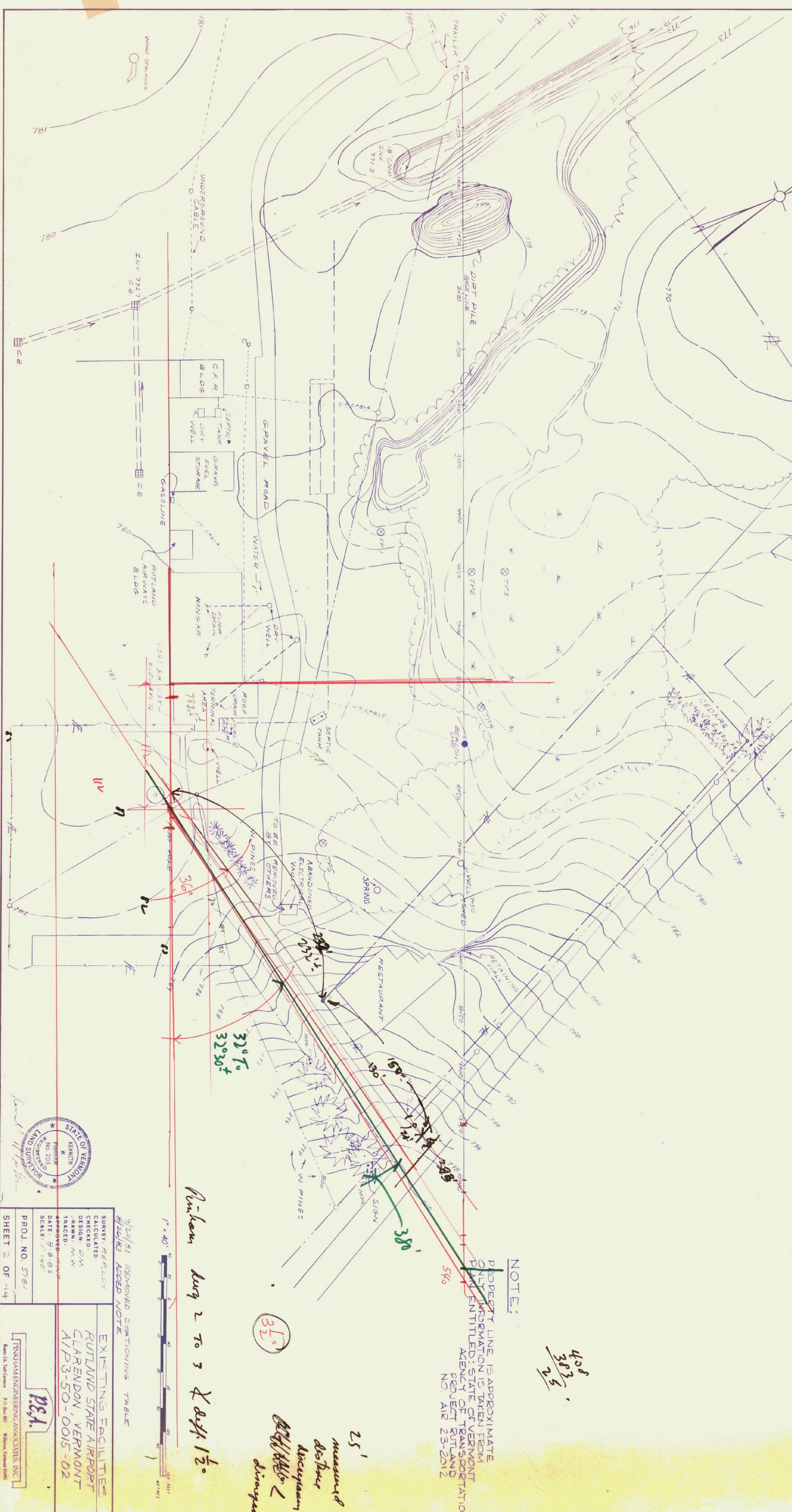


TEST PIT INFORMATION - PITS DUG 7-15-83

TP #1	TP #2	TP #3	TP #4	TP #5
0 - 66" Fine Sandy Fill - Necled to 24"	0 - 4" Black Duff - Wet	0 - 12" Black Duff - Wet	0 - 12" Black Duff - Wet	0 - 4" Brown Topsoil
66 - 72" Organic Duff - Black (Original Orchard)	6 - 12" Wet Fine Sand	12 - 14" Dense Medium Sand - Wet	12 - 36" Dense Medium Sand - Wet	4 - 12" Fine Sandy Fill - Damp
72 - 84" Medium Sand with Silt - Reddish brown to Grey	12 - 24" Black Organic Matter Sand - Damp	14 - 54" Wet Medium Dense Sand - Damp	36 - 60" Trace Clay Wet Dense Silty Clay	12 - 28" Black Organic Matter Necled Fine Sand - Damp
84 - 96" Dense Fine Sandy Silt - Wet	24 - 30" Fine to Medium Dense Sand - Damp	54" * - Grey to Grey - Blue - Wet	60" * Stony Dense Till	28 - 96" Necled Fine Sand - Damp Wet at 78"
96 - 120" Dense Fine Sandy Silt - Wet	30 - 60" Wet Silt - Damp			



408  
383  
25

NOTE:  
PROJECT LINE IS APPROXIMATE  
ONLY INFORMATION IS TAKEN FROM  
PLAN ENTITLED: STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
PROJECT RUTLAND  
NO. AIR 23-2012

Pinham Aug 2 to 3 & Apr 1 1/2

32°

25'  
measured  
as per  
discrepancy

9/22/83 REMOVED STATIONING TABLE  
8/24/83 ADDED NOTE

EXISTING FACILITIES  
RUTLAND STATE AIRPORT  
CLARENDON, VERMONT  
A/P 3-50-0015-02

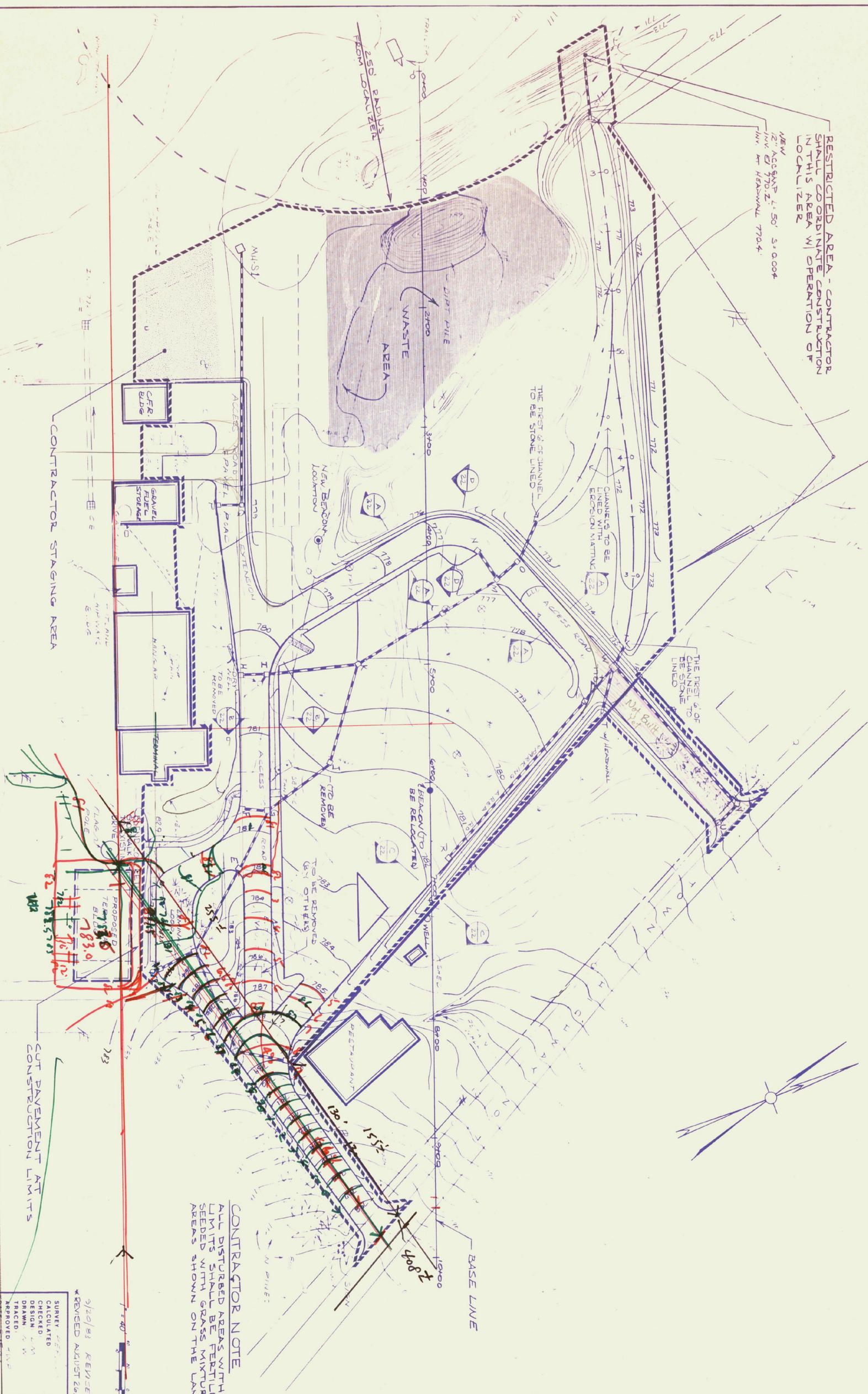
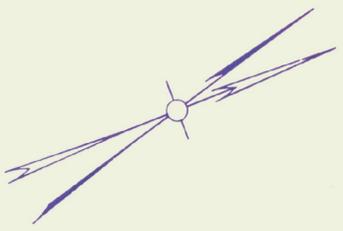
PROJ. NO. 57e1  
SHEET 2 OF 14



CONSTRUCTION LIMITS

RESTRICTED AREA - CONTRACTOR SHALL COORDINATE CONSTRUCTION IN THIS AREA W/ OPERATION OF LOCALIZER

NEW 12" AGG 4.50' 5.0004  
1/4" @ 770.2' 5.0004  
1/4" @ HEADWALL 770.4'



THE FIRST 6' OF CHANNEL TO BE STONE LINED

THE FIRST 6' OF CHANNEL TO BE STONE LINED

CHANNELS TO BE EROSION WITH NATURAL EROSION MATTING

THE FIRST 6' OF CHANNEL TO BE STONE LINED

CONTRACTOR NOTE  
ALL DISTURBED AREAS WITHIN CONSTRUCTION LIMITS SHALL BE FERTILIZED LIMED AND SEEDED WITH GRASS MIXTURE "A", EXCEPT THOSE AREAS SHOWN ON THE LANDSCAPE PLAN.

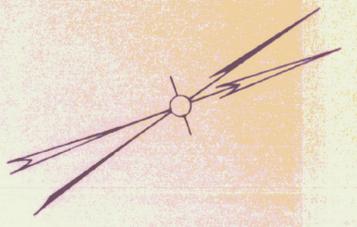
34'30'

CUT PAVEMENT AT CONSTRUCTION LIMITS

9/20/83 REVISED SECT. REF. NO.  
\*REVISED AUGUST 26, 1983 PARKING AREA NOTES & DRAINAGE STRUCTURES

AIRPORT SITE PLAN  
RUTLAND STATE AIRPORT  
CLARENDON, VERMONT  
A/P3-50-0015-02

PROJ. NO. 5791  
SHEET 3 OF 44  
P&J  
PENGHAM ENGINEERING ASSOCIATES, INC.  
Rt. 24, Fair Haven, Vt. 05743

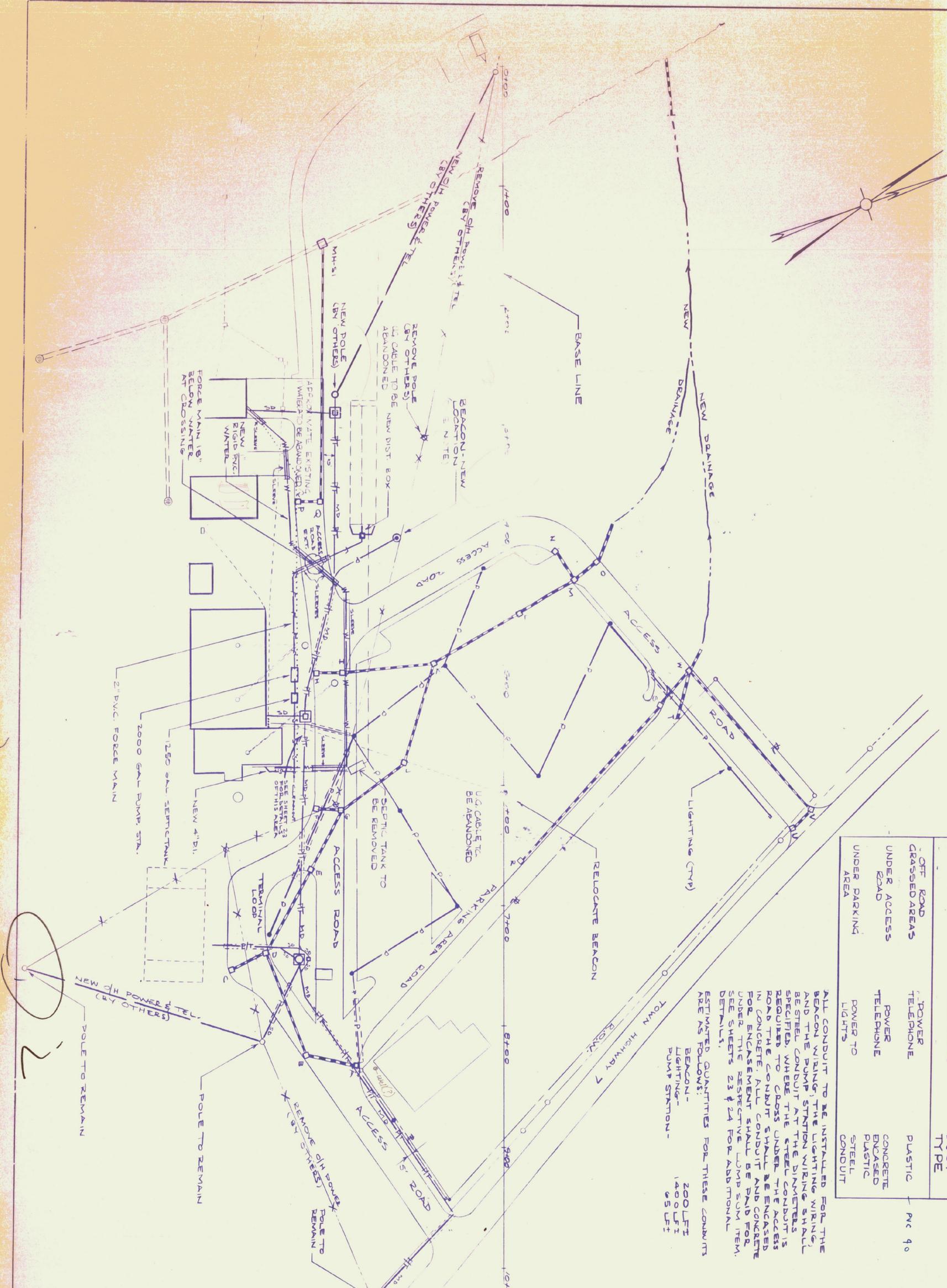


LOCATION	SERVICE	DUCT TYPE
OFF ROAD CROSSED AREAS	POWER TELEPHONE	PLASTIC
UNDER ACCESS ROAD	POWER TELEPHONE	CONCRETE ENCASED PLASTIC
UNDER PARKING AREA	POWER TO LIGHTS	STEEL CONDUIT

ALL CONDUIT TO BE INSTALLED FOR THE BEACON WIRING, THE LIGHTING WIRING, AND THE PUMP STATION WIRING SHALL BE STEEL CONDUIT AT THE DIMENSIONS SPECIFIED WHERE THE STEEL CONDUIT IS REQUIRED TO CROSS UNDER THE ACCESS ROAD THE CONDUIT SHALL BE ENCASED IN CONCRETE. ALL CONDUIT AND CONCRETE FOR ENCASUREMENT SHALL BE PAID FOR UNDER THE RESPECTIVE LUMP SUM ITEM. SEE SHEETS 23 & 24 FOR ADDITIONAL DETAILS.

ESTIMATED QUANTITIES FOR THESE CONDUITS ARE AS FOLLOWS:

BEACON - 200 LFT  
Lighting - 1400 LFT  
PUMP STATION - 95 LFT



**LEGEND**

- P 36 POWER (UNDERGROUND) SINGLE DUCT
- T 36 TELEPHONE (UNDERGROUND) SINGLE DUCT
- HT 36 POWER TEL. (UNDERGROUND) MULTIPLE DUCT
- F FORCE MAIN
- W WATER LINE
- S SANITARY SEWER
- SD STORM DRAIN
- X TO BE REMOVED
- CONCRETE ENCASED UTILITY
- POWER TELEPHONE

**NOTES**

- SEE APPROPRIATE DETAIL SHEETS FOR INDIVIDUAL UTILITIES.
- DUCT & CABLE MARKERS ARE TO BE PLACED AT HORIZONTAL CHANGES OF DIRECTION, BOTH SIDES OF ROADS, AND AS DIRECTED.
- BEACON LIGHT AND TOWER TO BE RELOCATED AS IS TO NEW LOCATION INDICATED ON THIS PLAN - BASELINE STN. 3495+1.90' RT EXISTING BEACON TOWER BASE SHALL BE REMOVED & DISPOSED OF OFF SITE.
- INSTALLATION OF WATER AND SEWER PIPE SHOULD PROVIDE FOR 10' MINIMUM VERTICAL SEPARATION AT POINTS OF CROSSING AND WHERE THE PIPES ARE PARALLEL AND WITHIN 10' HORIZONTALLY.
- EXISTING SEPTIC TANK TO BE MAINTAINED DURING CONSTRUCTION UNTIL NEW SYSTEM HAS BEEN INSTALLED. DISPOSAL OF TANK SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- THE LOCATION OF THE NEW SEPTIC TANK AND PUMP STATION SHALL BE AS SHOWN ON THIS DRAWING SUBJECT TO FIELD ADJUSTMENTS MADE BY THE ENGINEER. THE CONTRACTOR SHALL LABEL OR OTHER WISE POSITIVELY IDENTIFY EACH CABLE AND/OR CONDUCTOR AT EVERY TERMINAL POINT OR JUNCTION.
- THE SANITARY SEWER LINE AND THE WATER MAIN SHALL BE SLEEVED WHEN WITHIN THE ROADWAY. REFER TO VERMONT DEPARTMENT OF HIGHWAYS STANDARDS D-20 FOR DESIGN DETAIL.



1/2" = 40' 1/4" = 20' 1/8" = 10'

ADDED CONDUIT & DUCT INFO.  
\* REVISED AUGUST 26, 1983 - PARKING AREA LIGHT POLES

UTILITY RELOCATION & INSTALLATION  
RUTLAND STATE AIRPORT  
CLARENDON, VERMONT  
AIP 3-50-0015-02

PROJ. NO. 5161  
SHEET 4 OF 4

PS&A  
PINKHAM ENGINEERING ASSOCIATES, INC.  
Rutland, Vermont 05756



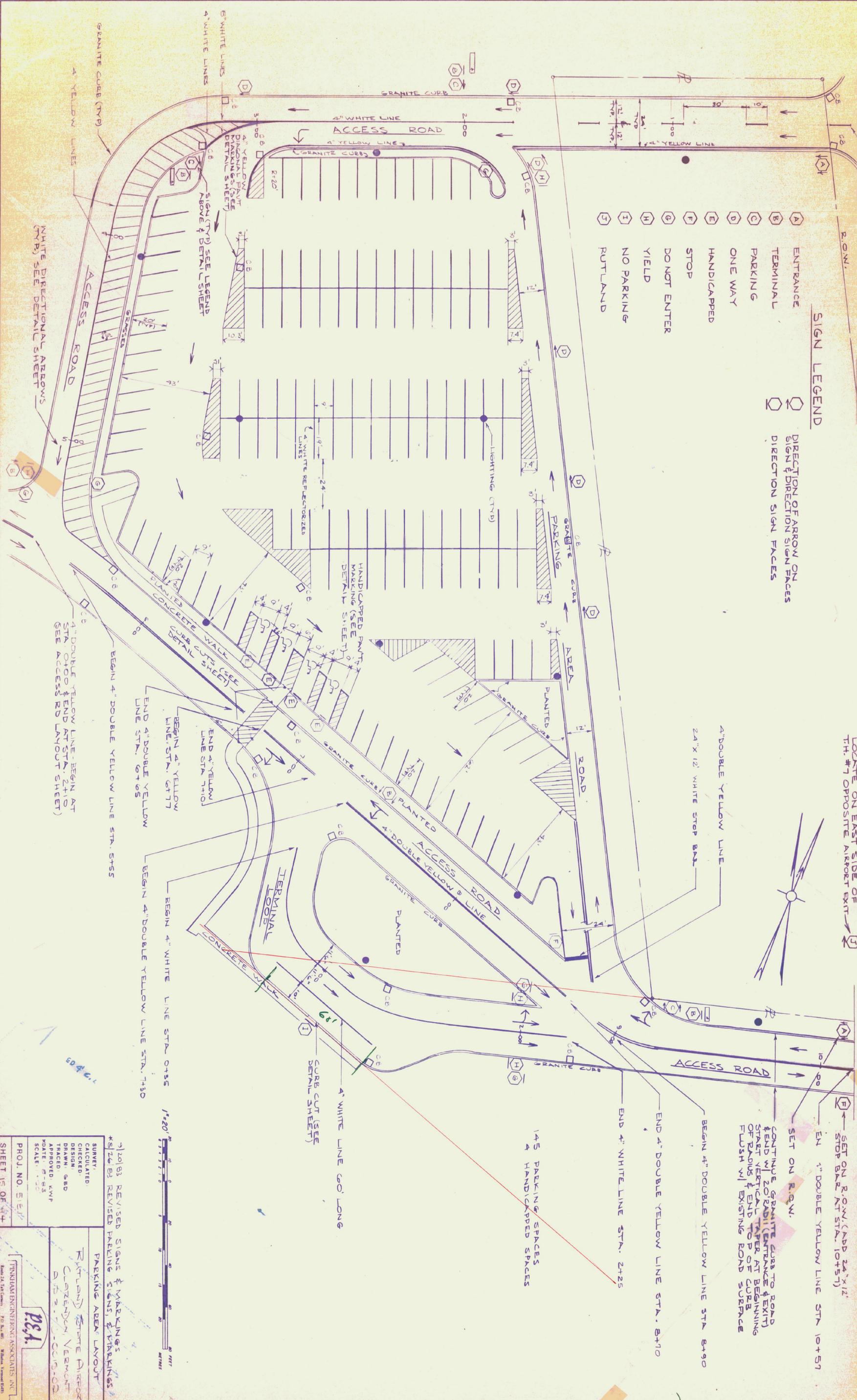
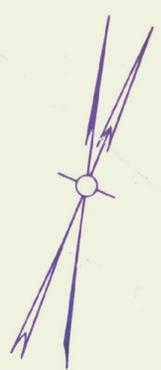
BEGIN 4" WHITE LINE AT STA. 0+15

R.O.W.

### SIGN LEGEND

- A ENTRANCE
  - B TERMINAL
  - C PARKING
  - D ONE WAY
  - E HANDICAPPED
  - F STOP
  - G DO NOT ENTER
  - H YIELD
  - I NO PARKING
  - J RUTLAND
-  DIRECTION OF ARROW ON SIGN & DIRECTION SIGN FACES  
 DIRECTION SIGN FACES

NOTE  
LOCATE ON EAST SIDE OF  
TH. #7 OPPOSITE AIRPORT EXT. 



SET ON R.O.W. (ADD 24" X 12" STOP BAR AT STA. 10+57)  
 EN 4" DOUBLE YELLOW LINE STA. 10+57  
 SET ON R.O.W.  
 CONTINUE GRANITE CURB TO ROAD  
 END W/ 20' RADIUS (ENTRANCE & EXIT)  
 START VERTICAL TAPER AT BEGINNING  
 OF RADIUS & END TOP OF CURB  
 FLUSH W/ EXISTING ROAD SURFACE

145 PARKING SPACES  
4 HANDICAPPED SPACES

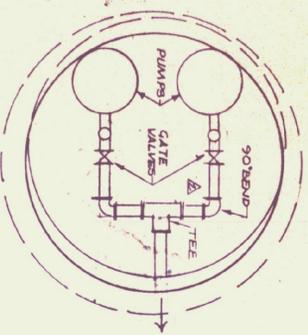
1"=20'  
 0 5 10 15 20 25 30 FEET  
 0 5 10 15 20 25 30 METERS

2/10/83 REVISED SIGNS & MARKINGS  
 \*8/26/83 REVISED PARKING SIGNS & MARKINGS

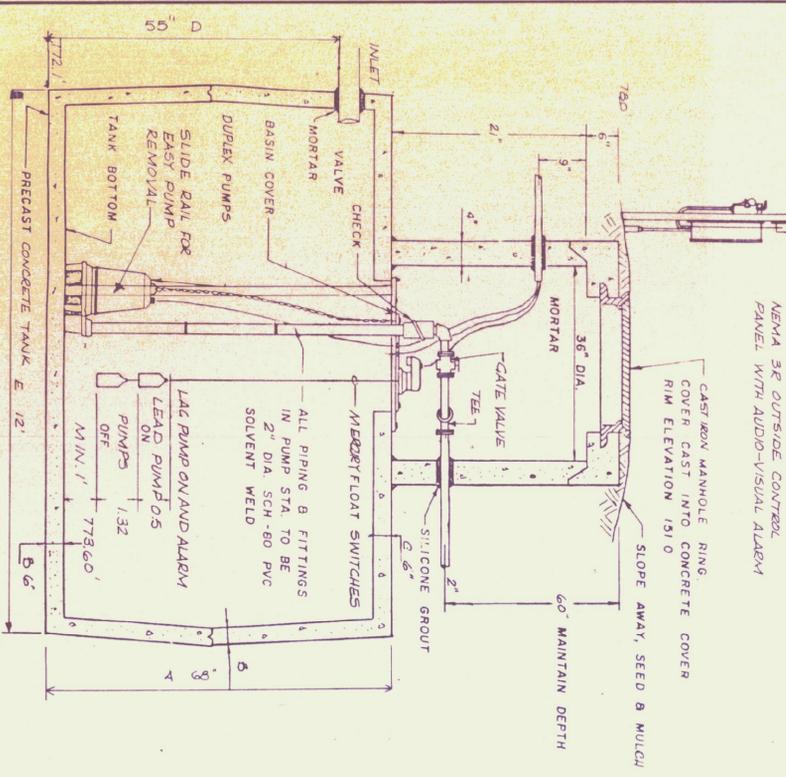
SURVEY		CALCULATED	
CHECKED		DESIGN	
DRAWN		TRACED	
APPROVED		DATE	
SCALE		PROJ. NO.	
SHEET IS OF 44		DATE	

PARKING AREA LAYOUT  
 RUTLAND STATE AIRPORT  
 CLARENCE VERMONT  
 83-2-10-C-10-00

  
 PITKINHAM ENGINEERING ASSOCIATES, INC.  
 Route 24, Fair Haven, VT 05475

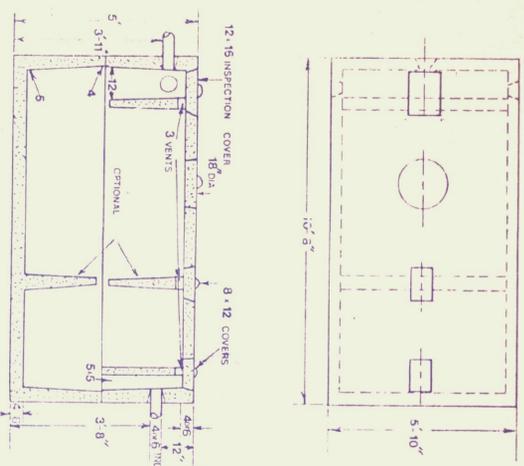


PLAN  
NOTES



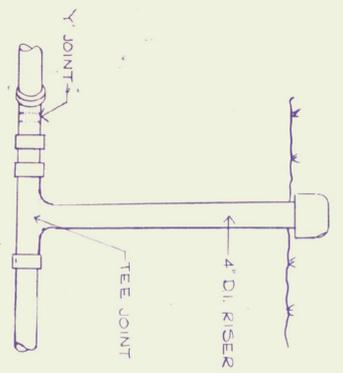
2000 GALLON  
PUMP STATION DETAIL  
NOT TO SCALE

NOTE: CONTRACTOR OPTION TO SUPPLY COMPACTIBLE PACKED STATION AS APPROVED BY ENGINEER

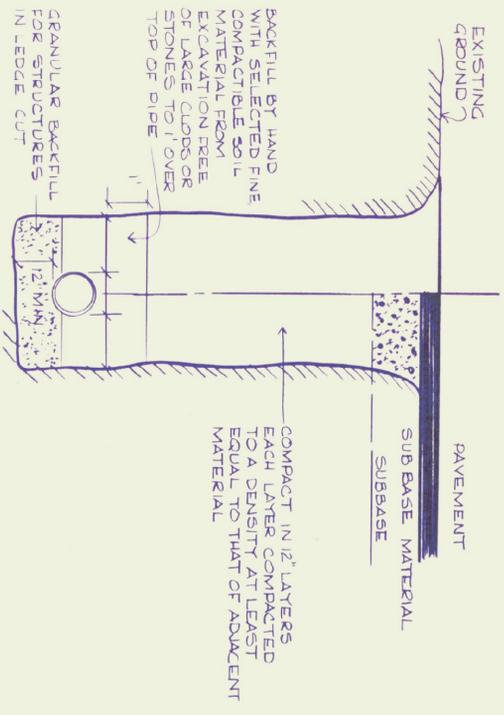


1250 GAL SEPTIC TANK

- NOTES
1. Cement 4000PSI @ 28 days
  2. Inlet baffle and outlet chamber are pre-cast with top section
  3. Ring joint sealed with asphalt cement or equivalent, reinforced with 6x6x10 Ga. steel wire
  4. Two compartment tank shown, smooth bottom tank available
  5. Excavation must be at least 12" longer and wider
  6. Three inlet positions standard

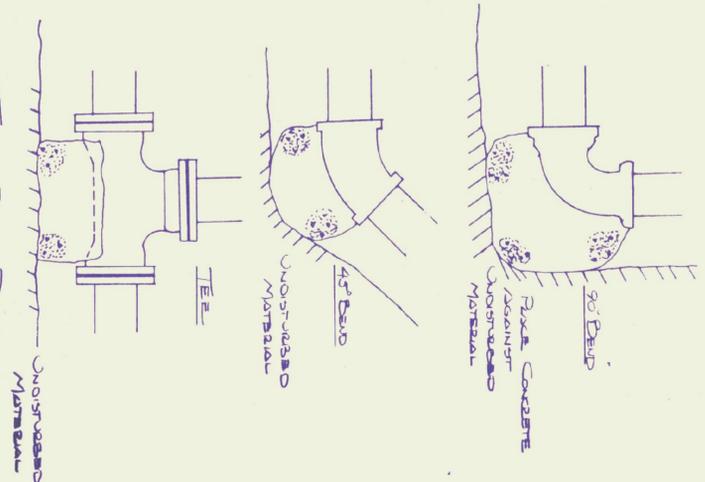


CLEANOUT DETAIL TYPICAL  
NOT TO SCALE

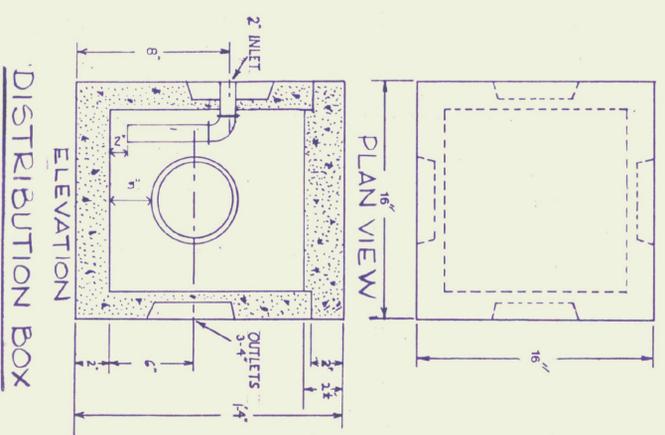


TRENCH TYPICAL  
NOT TO SCALE

THE SANITARY SEWER LINE AND THE WATER MAIN SHALL BE SLEAVED WHEN WITHIN THE ROADWAY. REFER HIGHWAY DEPARTMENT'S DESIGN DETAIL.

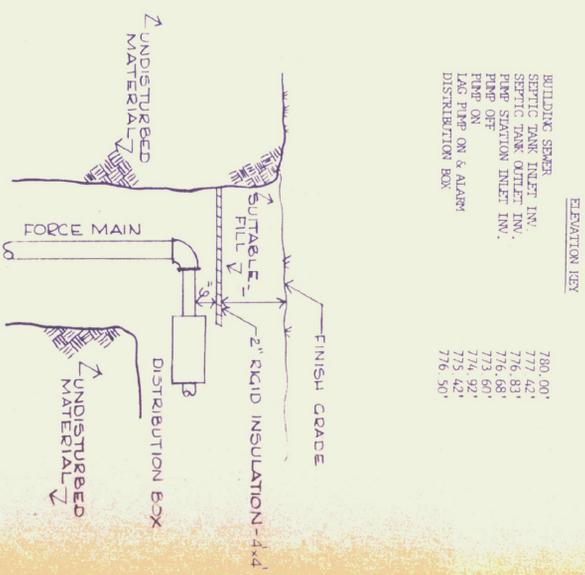


NOTE: CONCRETE REACTION BUCKLING SHALL BE PROVIDED AT ALL BENDS DEFLECTING 22W/2R OR MORE. 1/8 CY MIN.



DISTRIBUTION BOX  
NOTE: 1. Concrete 4000PSI @28 days

- DESIGN CRITERIA - SANITARY SYSTEM
1. THE EXISTING 1250 GAL SEPTIC TANK WILL BE RELOCATED AND REPLACED WITH A NEW 1250 GAL SEPTIC TANK.
  2. THE EFFLUENT FROM THE SEPTIC TANK WILL BE PAVED UNDER THE ROAD MAINTAINING MINIMUM DEPTH OF 5 FEET BENEATH THE ROAD.
  3. PUMP STATION REQUIREMENTS:  
483 passengers @ 5 GPD = 2415 GPD  
4 doses per day - each dose 603 gal  
USE 2000 gal PUMP STATION CAPACITY 4 HOUR STORAGE REQUIRED = 600 gal  
PERMANENT STORAGE AVAILABLE 21" VOLUME ABOVE PUMP ON AND BELOW INLET INVERT IS 107 C.F. = 800 gal
  4. PUMP REQUIREMENTS:  
PEAK 20 MINUTE FLOW 194 gpm USE PUMP RATE OF 40 gpm  
HEAD LOSS IN 2" DELIVERY LINE 4.51'  
PUMP STATION PIPING LOSSES 0.93'  
SUMP LOSS (ESTIMATED) 2.90'  
MISCELLANEOUS LOSSES 1.00'  
TOTAL 10.21'
  5. NEW DISTRIBUTION BOX REQUIRED. AT RISE WHERE FORCE MAIN ENTERS BOX 2" x 4" INSULATION SHALL BE USED TO PROTECT THE FORCE MAIN FROM FREEZING.



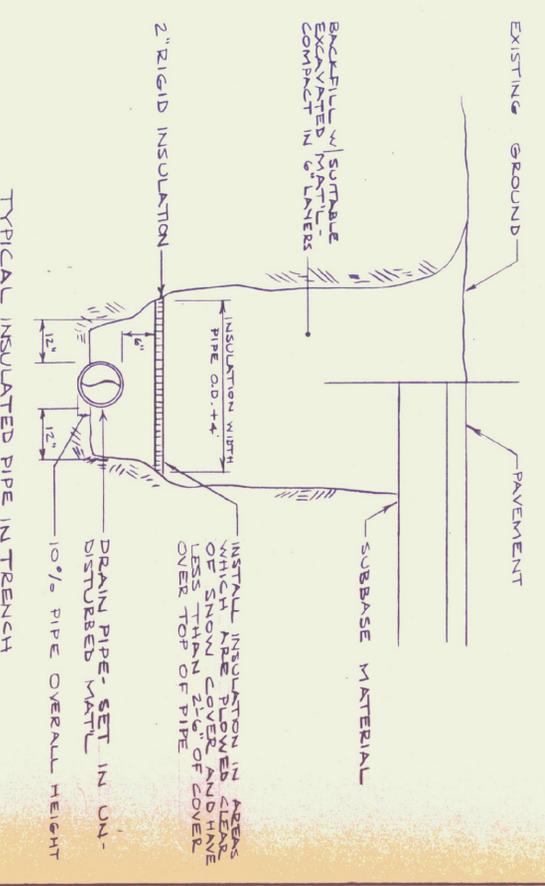
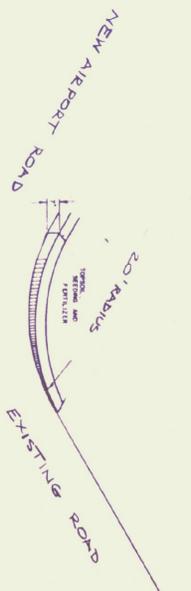
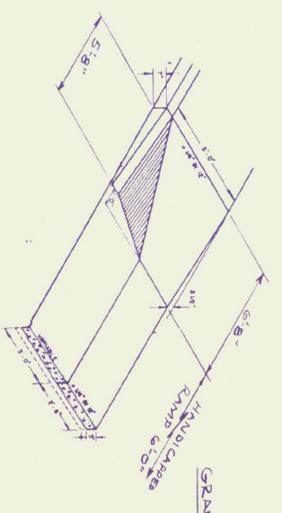
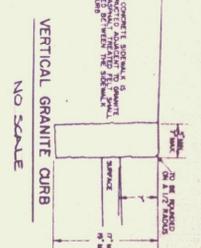
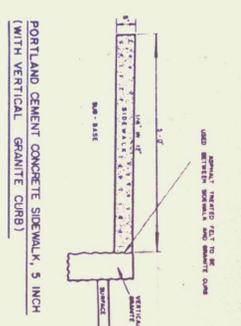
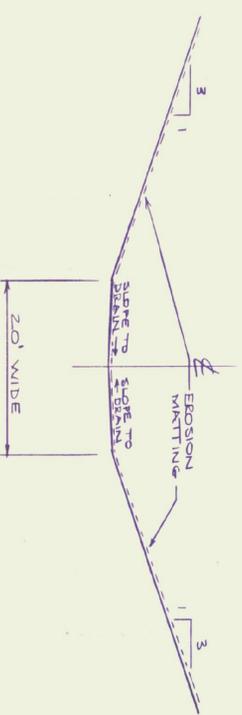
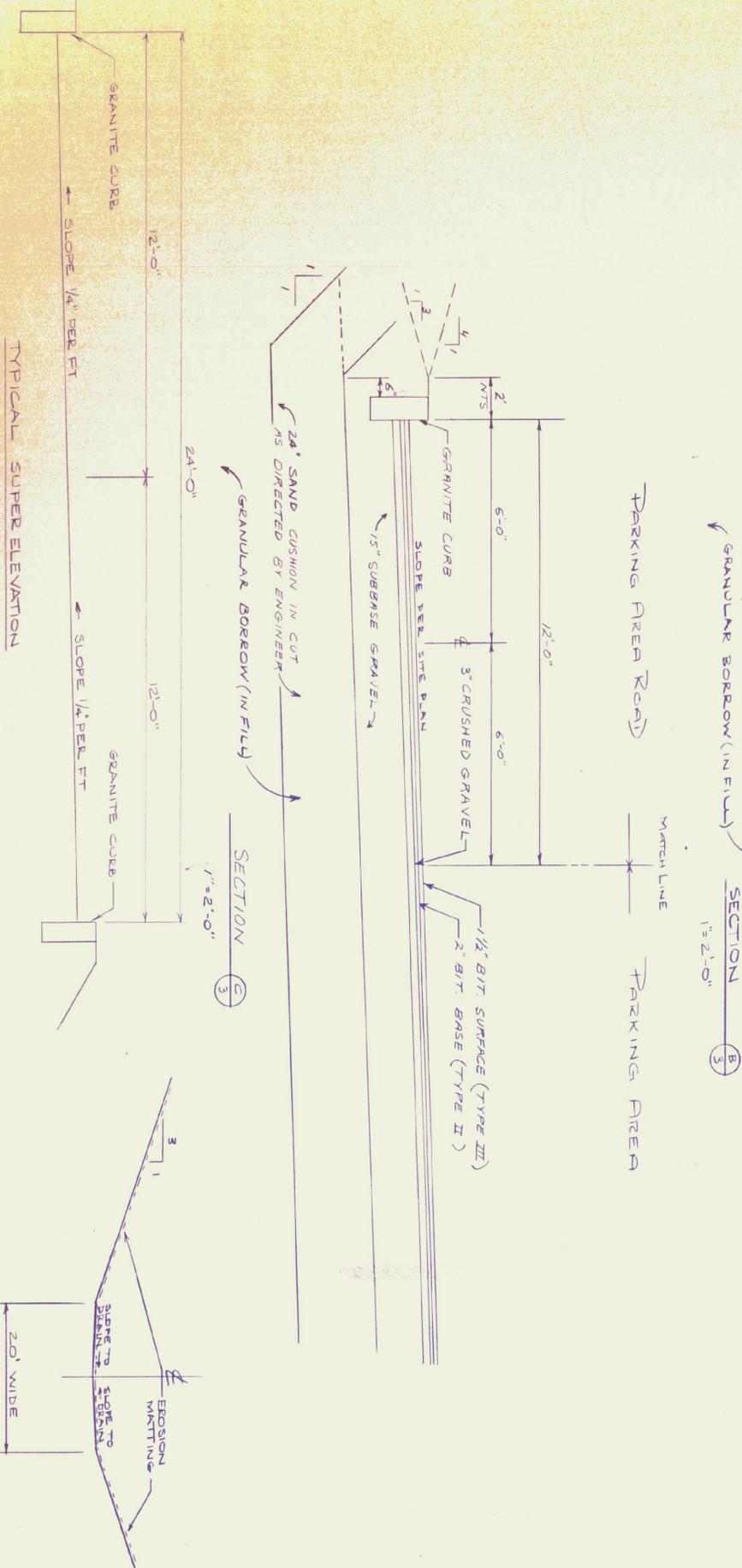
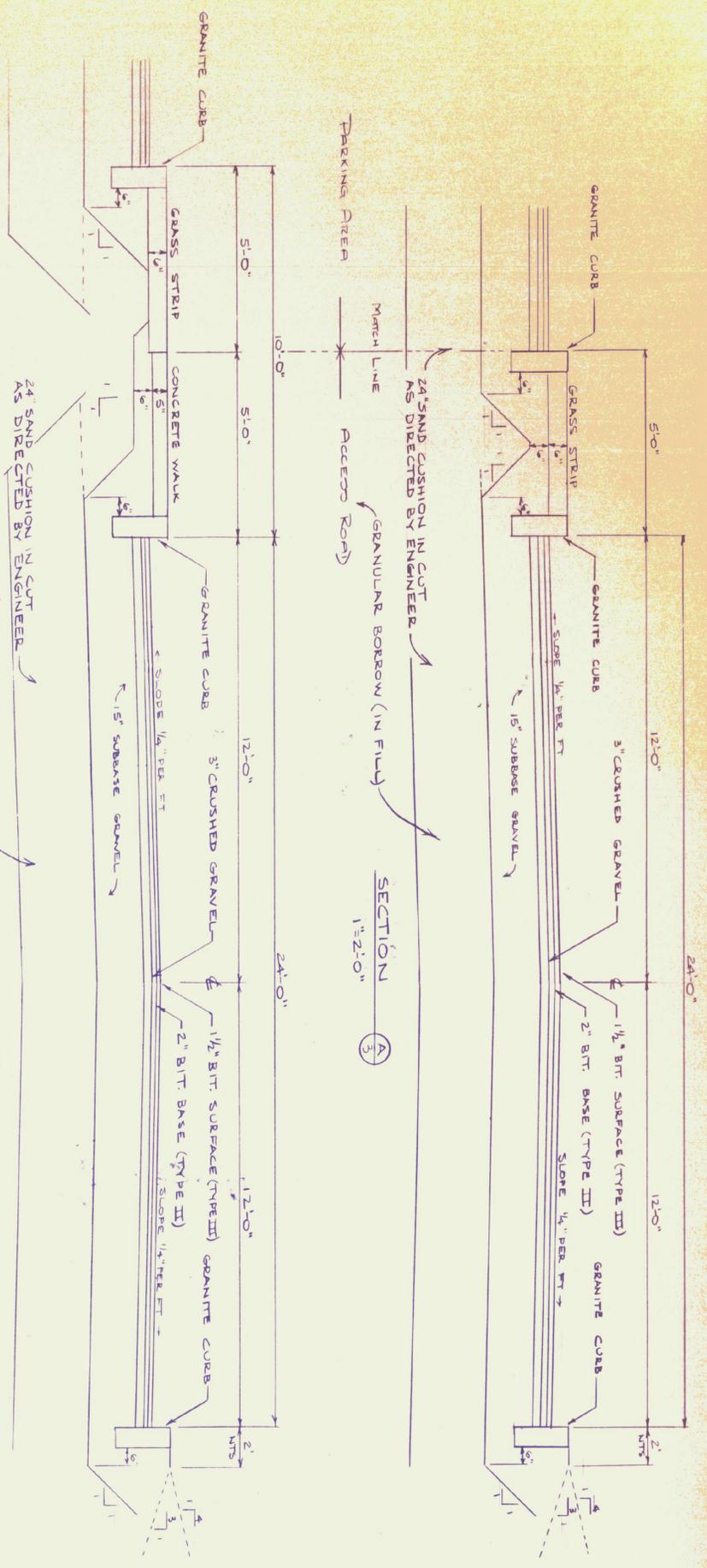
INSULATION TYPICAL  
NOT TO SCALE

\* REVISED: AUGUST 26, 1983 - NOTE TO TYPICAL TRENCH

SEWER SYSTEM DETAILS  
RATTLEFORD STATE AIRPORT  
CLARENDON, VERMONT  
AIP 3-50-0015-02

PROJ. NO. 5181  
SHEET 21 OF 44

PS&A  
PINKHAM ENGINEERING ASSOCIATES, INC.  
Route 74, Fair Green, P.O. Box 66, Weston, Vermont 05693



TYPICAL DRAINAGE CHANNEL

CURB CUT FOR HANDICAPPED ACCESS  
NO SCALE

GRANITE CURB RADIUS  
NO SCALE

NO SCALE

NO SCALE

9/20/83 REVISED SECT. REF. NO. & ADD SECT.  
\* 8/20/83 ADDED SECTIONS

SURVEY: ALICULATED CHECKED: DESIGN: DRAWN: TRACED: APPROVED: SCALE: AS NOTED	<p>TYPICAL ROAD DETAILS</p> <p>RUTLAND STATE AIRPORT CLARENDON, VERMONT AIP 3-50-001B-02</p>
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PROJ. NO. 5181  
SHEET 22 OF 44

TINKHAM ENGINEERING ASSOCIATES, INC.  
Rt. 24, Fair Green, P.O. Box 485, Williston, Vermont 05495

**ILLUMINATION DESIGN CRITERIA**

DESIGN CRITERIA SHALL CONFORM TO RECOMMENDED PRACTICE FOR ROADWAY LIGHTING & PARKING FACILITIES AS OUTLINED IN THE IES LIGHTING HANDBOOK APPLICATIONS VOLUME 1 CHARACTER 14, CC 17 & 18

**VEHICULAR TRAFFIC**

FOOT CANDLES	UNIFORMITY RATIO
LOV	4 TO 1
ACTIVITY	3 TO 1
ACTIVITY	3 TO 1
HIGH	3 TO 1

**PEDESTRIAN SECURITY**

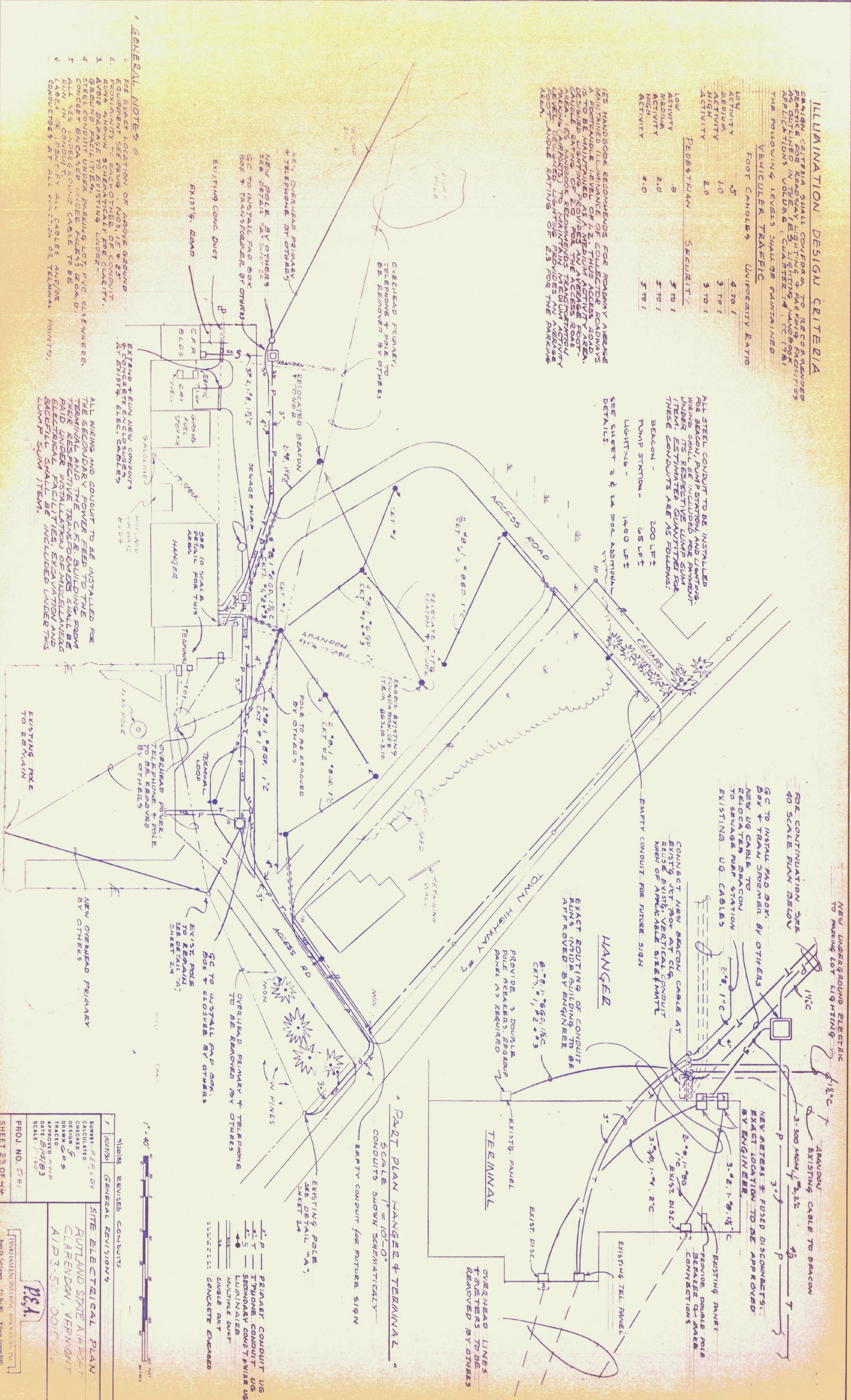
LOW ACTIVITY	5 TO 1
MEDIA ACTIVITY	5 TO 1
HIGH ACTIVITY	5 TO 1

IES HANDBOOK RECOMMENDS FOR ROADWAY AVERAGE FOOTCANDLE LEVEL OF 2 PLUS FOR ROADWAYS IS TO BE MAINTAINED AS A MEDIUM ACTIVITY AREA. DESIGNED LIGHTING PROVIDES AN AVERAGE FOOT-CAUDLE RATING OF 2.0 FOR THE ACCESS ROAD AREA. IES HANDBOOK RECOMMENDS TRANSDUCTION LEVEL DESIGNER LIGHTING PROVIDES AN AVERAGE FOOT-CAUDLE RATING OF 2.3 FOR THE PARKING AREA.

ALL STEEL CONDUIT TO BE INSTALLED FOR BEACON, PUMP STATION AND LIGHTING. WIRING SHALL BE INCLUDED FOR PAYMENT UNDER ITS RESPECTIVE LUMP SUM ITEM. ESTIMATED QUANTITIES FOR THESE CONDUITS ARE AS FOLLOWS:

- BEACON - 200 FT ±
- PUMP STATION - 65 FT
- LIGHTING - 1400 FT

SEE SHEET 2 & 2A FOR ADDITIONAL DETAILS.



- GENERAL NOTES**
1. SEE EXACT LOCATION OF ABOVE GROUND EQUIPMENT SEE DRWG. NOS. 15 & 25
  2. SHOW CONDUIT UNDER EACH OTHER OR CONDUIT ABOVE DAMAGE TO EXISTING FACILITIES.
  3. AVOID DAMAGE TO EXISTING FACILITIES.
  4. STREET CONDUIT UNDER PARKING LOT PVC ELSEWHERE.
  5. ALL NEW UNDERGROUND CABLE TO BE RUN IN CONDUIT.
  6. LABEL OR IDENTIFY ALL CABLES AND/OR CONDUITS AT ALL JUNCTION OR TERMINAL POINTS.

ALL WIRING AND CONDUIT TO BE INSTALLED FOR THE SECONDARY POWER FEED TO THE TERMINAL AND THE C.F.R. BUILDING FROM THEIR RESPECTIVE TRANSFORMERS SHALL BE PAID UNDER INSTALLATION OF MISCELLANEOUS ELECTRICAL FACILITIES. EXCAVATION AND BACKFILL SHALL BE INCLUDED UNDER THIS LUMP SUM ITEM.

NEW UNDERGROUND ELECTRIC TO PARKING LOT LIGHTING  
 GC TO INSTALL PAD BOX, BOX & TRAN. BREAKER BY OTHERS  
 NEW UG CABLE TO RELOCATED BEACON TO SEWAGE PUMP STATION EXISTING UG CABLES

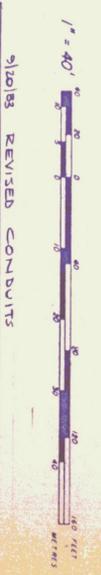
CONNECT NEW BEACON CABLE AT EXISTING JET BOX AT CIG. REUSE EXIST. VERTICAL CONDUIT WHEN OF APPLICABLE SIZE/MATL  
 EMPTY CONDUIT FOR FUTURE SIGN

EXACT ROUTING OF CONDUIT RUNS INSIDE BUILDING TO BE APPROVED BY ENGINEER

PROVIDE 3 DOUBLE POLE BREAKERS, REGROUP PANEL AS REQUIRED

**PART PLAN HANGER & TERMINAL**  
 SCALE 1" = 10'-0"  
 CONDUITS SHOWN SCHEMATICALLY  
 EMPTY CONDUIT FOR FUTURE SIGN

- 3" P PRIMARY CONDUIT UG
- 2" T TELEPHONE CONDUIT UG
- 3" S SECONDARY CONDUIT WIRE UG
- 3" L LUMINAIRE
- 3" M MULTIPLE DUCT
- 3" S SINGLE DUCT
- 3" C CONCRETE EXCAVED

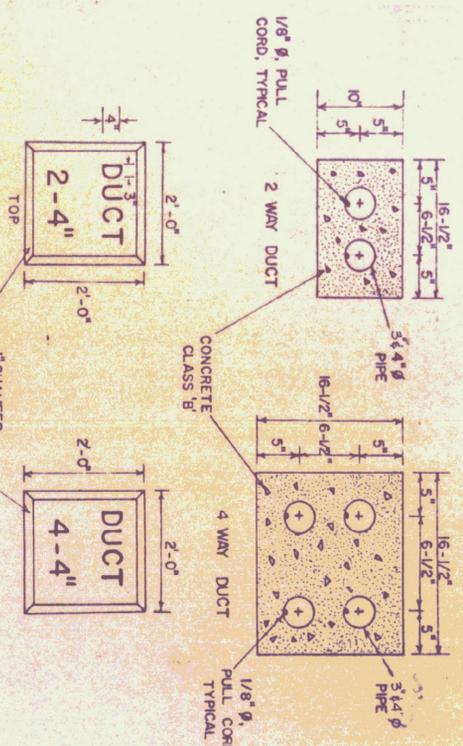


1	8/27/80	GENERAL REVISIONS
SURREY PERLODY		
CALCULATED		
CHECKED		
DESIGN		
DRAWN		
TRACED		
APPROVED		
DATE 8/15/83		
SCALE 1" = 40'		
PROJ. NO. 578/1		
SHEET 23 OF 44		

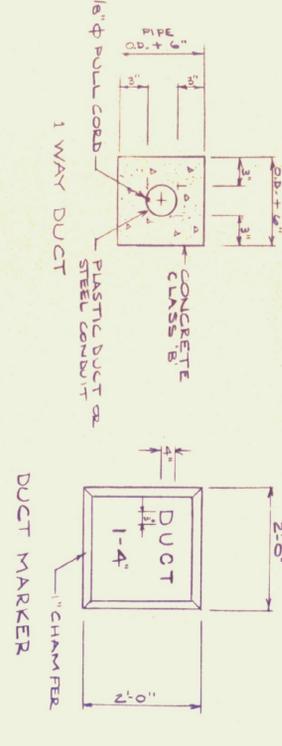
**SITE ELECTRICAL PLAN**  
 RUTLAND STATE AIRPORT  
 CLARENDON, VERMONT  
 A/P 3-50-0015-01

**PS&A**  
 ENGINEERING ASSOCIATES, INC.  
 100 North Main Street, Rutland, Vermont 05701

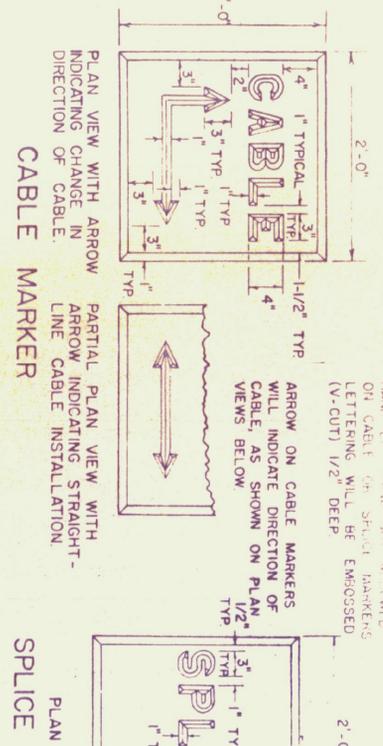
SECTION A-A



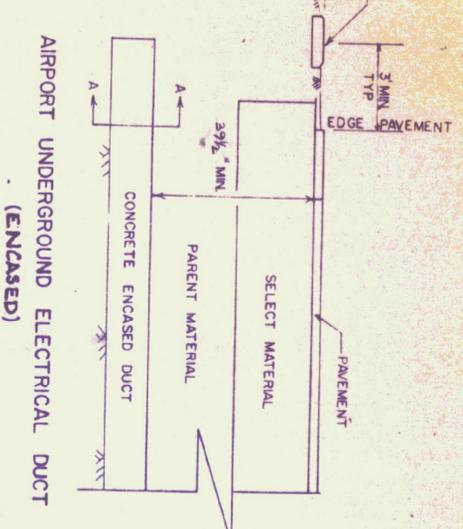
NOTES  
LETTERINGS ON DUCT MARKERS TO BE EMBOSSED, 1/2" DEEP.  
2 HAND LETTERING NOT ALLOWED.



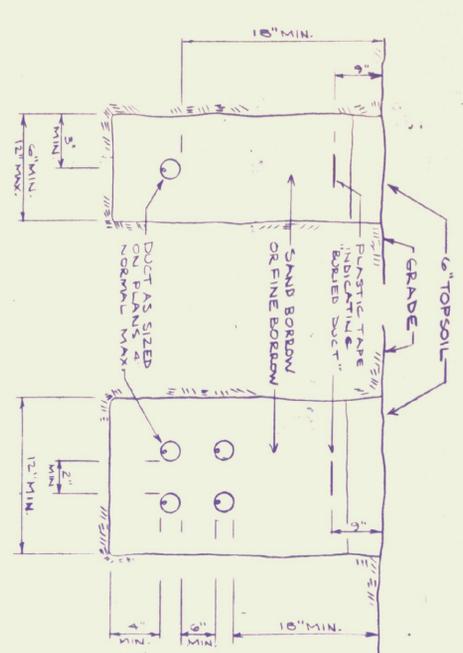
NOTES  
HAND LETTERING ON DUCT MARKERS ON CABLE OR SPlice MARKERS (V-CUT) 1/2" DEEP.



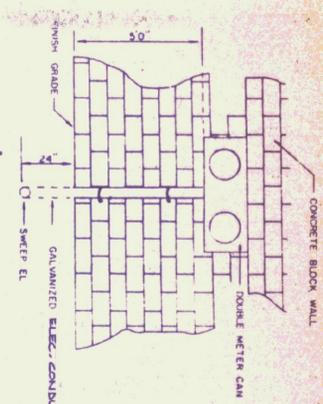
PLAN VIEW WITH ARROW INDICATING CHANGE IN DIRECTION OF CABLE  
PARTIAL PLAN VIEW WITH ARROW INDICATING STRAIGHT-LINE CABLE INSTALLATION



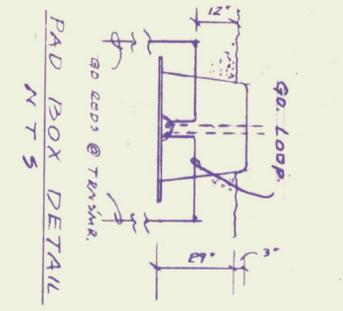
AIRPORT UNDERGROUND ELECTRICAL DUCT (ENCASED)



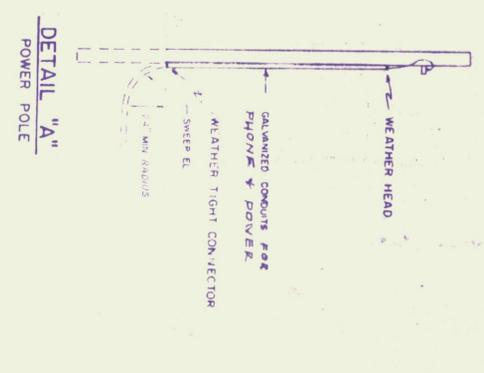
SINGLE DUCT  
MULTIPLE DUCT  
ELECTRICAL DUCT IN TRENCH DETAIL



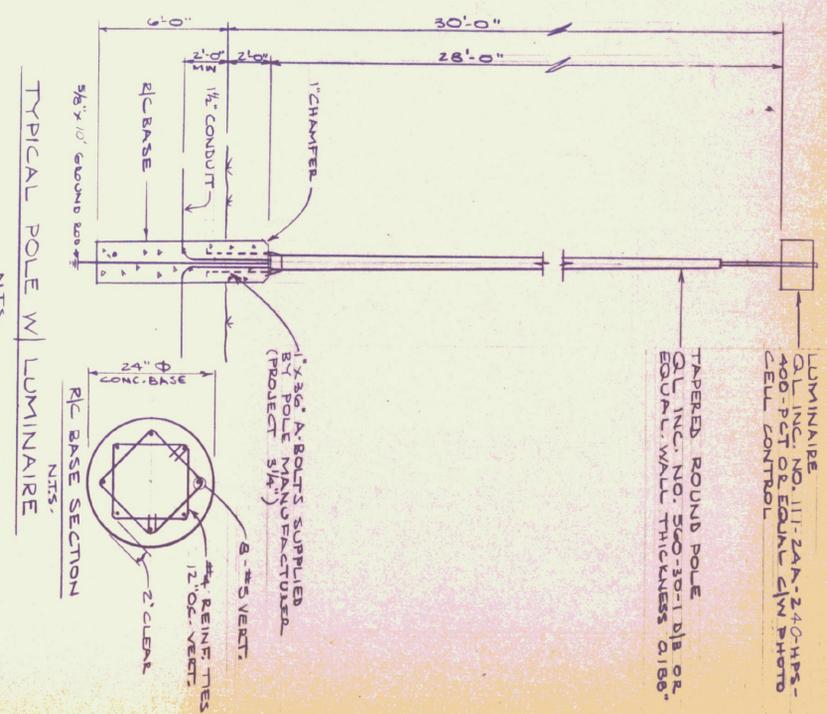
ELECTRIC SUPPLY METER BOX DETAIL



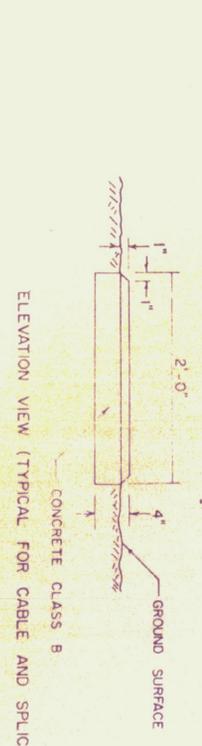
PAD BOX DETAIL



DETAIL "A" POWER POLE



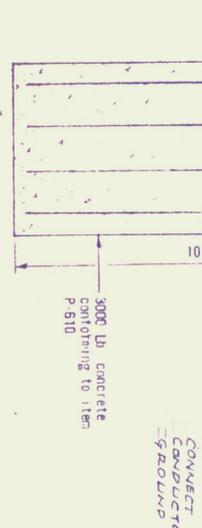
TYPICAL POLE W/ LUMINAIRE



ELEVATION VIEW (TYPICAL FOR CABLE AND SPlice MARKERS)



BEACON TOWER FOUNDATION DETAIL



BEACON TOWER FOUNDATION DETAIL



62 FT. TUBULAR STEEL BEACON TOWER

CABLE AND SPlice MARKERS

BEACON TOWER FOUNDATION

BEACON TOWER FOUNDATION

PROJ. NO. 5761  
SHEET 2 OF 14

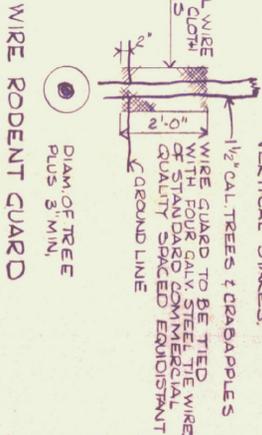
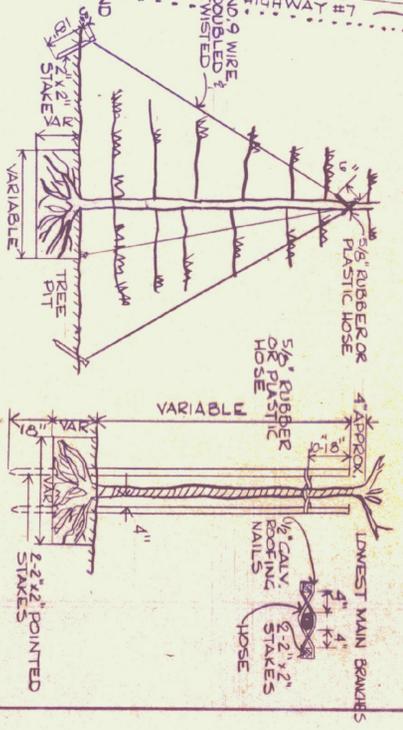
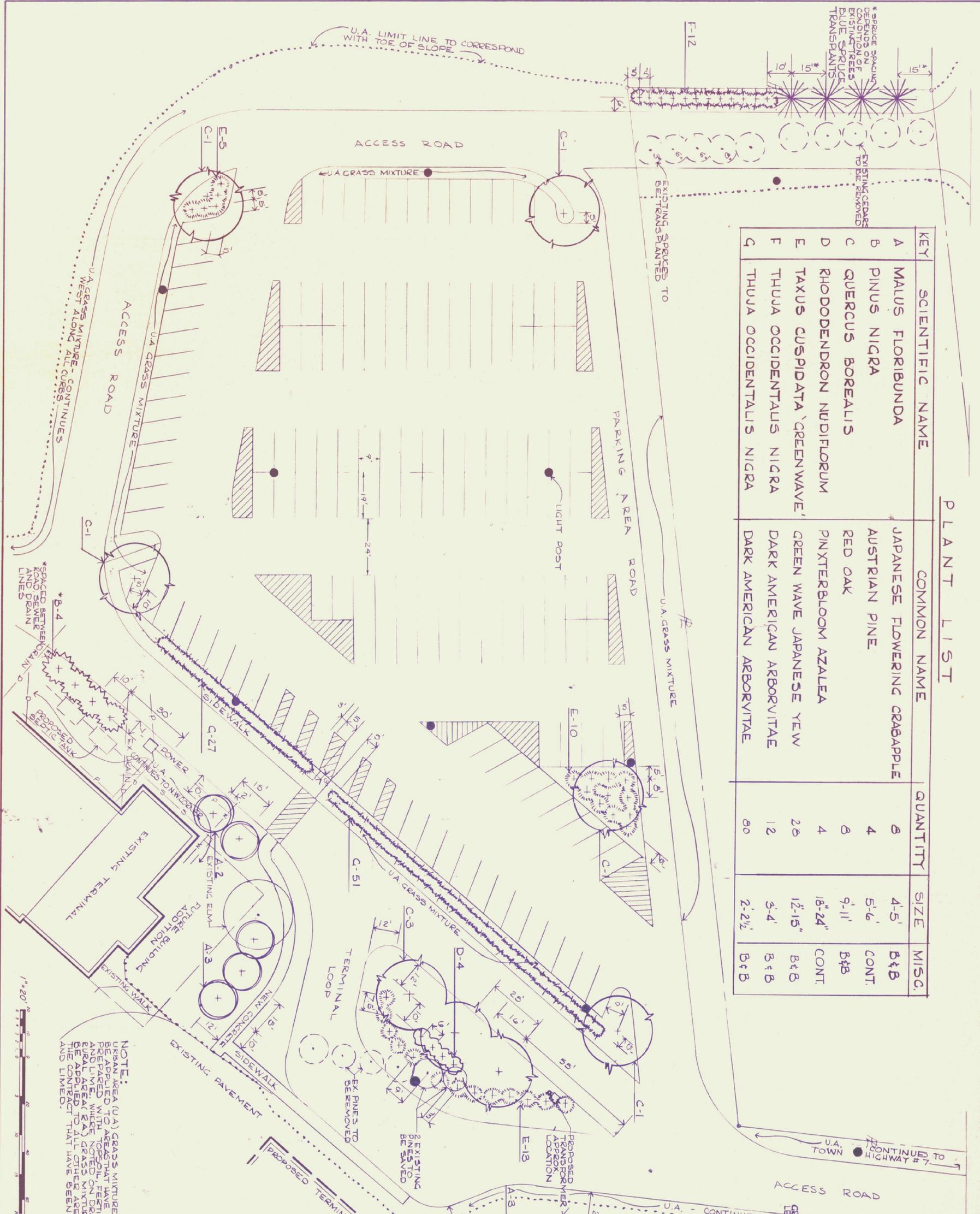
ELECTRICAL DETAILS  
RUTLAND AIRPORT  
CLARENCE, VERMONT  
AIP 3-50 - COLS - 02



P&A ENGINEERING ASSOCIATES, INC.  
70 Main St. Winoch, Vermont 05485

PLANT LIST

KEY	SCIENTIFIC NAME	COMMON NAME	QUANTITY	SIZE	MISC.
A	MALUS FLORIBUNDA	JAPANESE FLOWERING CRABAPPLE	8	4-5'	B & B
B	Pinus nigra	Austrian Pine	4	5-6'	CONT.
C	Quercus borealis	Red Oak	8	9-11'	B & B
D	Rhododendron nudiflorum	Pinkterbloom Azalea	4	18-24"	CONT.
E	Taxus cuspidata 'Greenwave'	Green Wave Japanese Yew	28	12-15"	B & B
F	Thuja occidentalis nigra	Dark American Arborvitae	12	3-4'	B & B
G	Thuja occidentalis nigra	Dark American Arborvitae	80	2-2 1/2'	B & B



SEEDING FORMULAS:

NAME	% WT. LBS./A.	PUR %	GERM %
CREeping RED RESCUE (VAR. PENNLANN)	30	90	85
PERENNIAL BLUEGRASS (DOMINION)	20	85	75
PERENNIAL KYE GRASS (VAR. PENNLANN)	20	85	75
ALFALFA (VAR. SARANAC)	5	92	85
BIRDFOOT TREFOIL (VAR. EMPIRE)	5	92	85
HIGHLAND BENT GRASS	5	92	85
TOTAL	100.00	60	85

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

NOTE: URBAN AREA (U.A.) GRASS MIXTURE SHALL BE APPLIED TO AREAS THAT HAVE BEEN REPAIRED WITH TOPSOIL, FERTILIZER AND LIME, WHERE NOTED ON DRAWING. RURAL AREA (R.A.) GRASS MIXTURE SHALL BE APPLIED TO ALL OTHER AREAS WITHIN THE CONTRACT THAT HAVE BEEN FERTILIZED AND LIMED.

LANDSCAPE PLAN

SURVEY: CALCULATED:  
 CHECKED: RUTLAND STATE ARCHITECT  
 DESIGN: KAMI CURRENTLY VERMONT ARCHITECTS  
 DRAWN: KAMI  
 APPROVED: KWP  
 DATE: AUGUST 1969\*  
 SCALE: 1" = 20'  
 PROJ. NO. 51E1  
 SHEET 25 OF 44  
 FRANKHAM ENGINEERING ASSOCIATES, INC.  
 800 T. 1st Street P.O. Box 485 Whitehall Vermont 05485