

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

VEHICULAR TRAFFIC	UNIFORMITY RATIO
LOW ACTIVITY	4 TO 1
MEDIUM ACTIVITY	3 TO 1
HIGH ACTIVITY	2 TO 1

PEDESTRIAN SECURITY

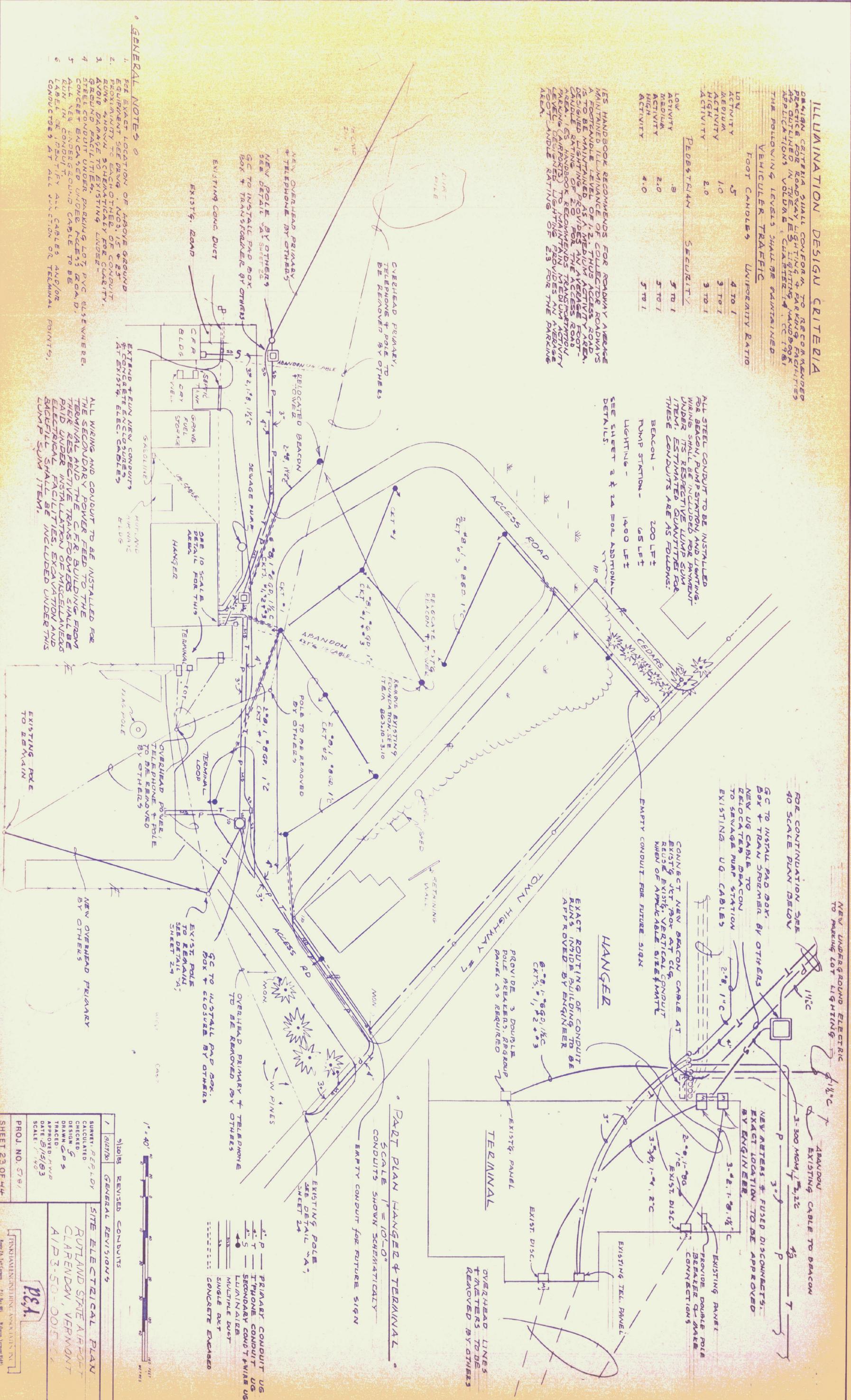
PEDESTRIAN SECURITY	UNIFORMITY RATIO
LOW ACTIVITY	5 TO 1
MEDIUM ACTIVITY	3 TO 1
HIGH ACTIVITY	2 TO 1

IES HANDBOOK RECOMMENDS FOR ROADWAY AVERAGE FOOT-CANDLE LEVELS 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 & MATERIAL

EMPTY CONDUIT FOR FUTURE SIGN

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

PROVIDE 3 DOUBLE POLE BREAKERS, REG. GROUP PANEL AS REQUIRED

OVERHEAD LINES + WITERS TO BE REMOVED BY OTHERS

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

psa

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