



- KEYED NOTES**
- 3#4/0 & 1#2 IN 2" CONDUIT
 - 2#4, 2#6, 1#4 GROUND, IN 2" CONDUIT
 - 2#4, 2#6, 6#8, 1#4 GROUND, IN 2" CONDUIT (TRENCHED)
 - 2#8, 1#8 GROUND IN 1" CONDUIT
 - PROVIDE CAPPED 2" SCHEDULE 40 PVC CONDUIT 3'-0" FROM JUNCTION BOX AND MARK FOR FUTURE.

SUMMARY OF QUANTITIES			
PAY ITEM	UNIT	QUANTITY	NOTE
LIGHT POLE, ALUMINUM, 30 FT. MH, 1.5 FT. MAST ARM	EA	9	
LUMINAIRE, SODIUM VAPOR, RECTILINEAR TYPE, 250 WATT	EA	9	
CONDUIT EMBEDDED IN STRUCTURE 2" PVC	FT	1100	(1065+APPROACH TO CONTROLLER)
ELECTRICAL CABLE IN CONDUIT, 600V (XLP TYPE USE) 1/C NO. 8	FT	610	FOR PHOTO-CELLS ON FIRST POLE FROM CONTROLLER
CONDUIT IN TRENCH, 2" DIA. PVC	FT	90	BRIDGE JUNCTION BOX TO CONTROLLER
ELECTRIC CABLE IN CONDUIT, 600V, (XLP TYPE USE) 1/C NO. 6	FT	2650	(1065+APPROACHS +TO CONTROLLER)
ELECTRIC CABLE IN CONDUIT, 600V, (XLP TYPE USE) 1/C NO. 4	FT	3925	(1065+APPROACHS +TO CONTROLLER)
SERVICE INSTALLATION, ELECTRIC	EA	1	
LIGHTING CONTROLLER TYPE CB-RCS 200A - 240 DUAL. SEE DETAIL ON SHEET E-6	EA	1	
LIGHTING CONTROLLER FOUNDATION. SEE DETAIL ON SHEET E-6	EA	1	
JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE 12"X10"X6"	EA	2	STAINLESS STEEL JUNCTION BOXES MUST BE COMPLETELY WATERTIGHT

NOTE: THIS TABLE SUMMARIZES ALL ELECTRICAL LIGHTING WORK.

FIXTURE TYPE	PERFORMANCE TABLE	LAMP/WATTS	VOLTS	MOUNTING	REMARKS
LUMINAIRE, SODIUM VAPOR, RECTILINEAR TYPE, 250 WATT	<p>GIVEN CONDITIONS</p> <p>ROADWAY DATA: PAYEMENT WIDTH ————— 26 FT NUMBER OF LANES ————— 2 MEDIAN WIDTH ————— N/A IES SURFACE CLASSIFICATION — R3 Q-ZERO VALUE ————— 0.07</p> <p>LIGHT POLE DATA: MOUNTING HEIGHT ————— 33 FT MAST ARM LENGTH ————— 1.5 FT POLE SET-BACK FROM ————— 3.5 FT EDGE OF PAVEMENT</p> <p>LUMINAIRE DATA: LAMP TYPE ————— HPS LAMP LUMENS ————— 27500 IES VERTICAL DISTRIBUTION — M IES CONTROL DISTRIBUTION — C IES LATERAL DISTRIBUTION — III TOTAL LIGHT LOSS FACTOR — 0.68</p> <p>LAYOUT DATA: SPACING ————— 120 FT CONFIGURATION ————— ONE SIDE ONLY LUMINAIRE OVERHANG OVER — -2 FT EDGE OF PAVEMENT LANE</p> <p>NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.</p> <p>PERFORMANCE REQUIREMENTS</p> <p>NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.</p> <p>ILLUMINATION: AVERAGE HORIZONTAL ILLUMINATION, (E_{AVE}) — 12.0 LUX UNIFORMITY RATIO, (E_{AVE}/E_{MIN}) — 4.0</p> <p>LUMINANCE AVERAGE LUMINANCE: (L_{AVE}) — 0.8 CD/M² UNIFORMITY RATIO, (L_{AVE}/L_{MIN}) — 3.0 (L_{AVE}/L_{MIN}) — 5.0</p> <p>MAXIMUM VEILING LUMINANCE RATIO, (L_V/L_{AVE}) — 0.4</p>	250 WATT HI PR SODIUM INITIAL LUMENS 27,500	240V AC	30' ALUMINUM ROUND POLE, 8" DIA AT BASE, 4" DIA AT TOP, 0.25" THICKNESS, 11.5" BOLT CIRCLE DIA	<p>FIXTURE TO HAVE A DUPLEX 120V, 20 AMPERE, GROUND FAULT INTERRUPTER RECEPTACLE</p> <p>BRACKET FOR FIXTURE ARM TO BE LOCATED ON POLE SO THAT LUMINAIRE MOUNTING HEIGHT IS 32'-10" ABOVE \bar{C} ROADWAY</p>

- GENERAL NOTES**
- SEE ELECTRICAL WIRING SCHEMATIC DETAILS SHEETS E-3, E-4 & E-5.
 - PROVIDE #4 WIRES FOR RECEPTACLE CIRCUITS AND #6 WIRE FOR LIGHTING CIRCUITS
 - NOT USED
 - 2" EXPANSION/DEFLECTION COUPLING, LOCATION SHALL BE APPROVED BY THE ENGINEER.
 - SEE BRIDGE DRAWINGS FOR ADDITIONAL DETAILS
 - The 2 Stainless Steel Junction boxes must be completely watertight.

LIGHTING PLAN
FAU ROUTE 6145 OVER
BNSF RAILROAD
SECTION 01-00590-00-BR (COUNTY)
LASALLE COUNTY
STATION 21+75.75
STR. NO. 050-8023