

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	130 R-2	DUPAGE, KANE	647	428
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

62410

**LEGEND**

LIGHTING UNIT:  
 47.5 FT. M.H., 15 FT. M.A.,  
 310W HPS M-C-III LUMINAIRE,  
 9" BREAKAWAY TRANSFORMER BASE

LIGHTING UNIT:  
 20 FT. M.H., 6 FT. M.A.,  
 150W HPS M-C-III LUMINAIRE,  
 9" BREAKAWAY TRANSFORMER BASE

PARAPET WALL LIGHTING UNIT:  
 45 FT. M.H., 15 FT. M.A.,  
 310W HPS M-C-III LUMINAIRE

TWIN LIGHTING UNIT:  
 20 FT. M.H., TWIN 6 FT. M.A.,  
 150W HPS M-C-III LUMINAIRE,  
 9" BREAKAWAY TRANSFORMER BASE

COMBINATION TRAFFIC SIGNAL AND  
 LUMINAIRE LIGHTING UNIT:  
 45 FT. M.H., 15 FT. M.A.,  
 400W HPS M-C-III LUMINAIRE

COMBINATION TRAFFIC SIGNAL AND  
 LUMINAIRE LIGHTING UNIT:  
 45 FT. M.H., 15 FT. M.A.,  
 310W HPS M-C-III LUMINAIRE

AVIATION OBSTRUCTION  
 WARNING LUMINAIRE

LIGHTING CONTROLLER CABINET

GROUND ROD

AERIAL CABLE, 3-1/2" #4  
 WITH MESSENGER WIRE,  
 UNLESS OTHERWISE NOTED

ELECTRIC UTILITY SERVICE

TEMPORARY LIGHTING UNIT  
 60 FT. WOOD POLE, 15 FT. MAST ARM  
 47.5 FOOT MOUNTING HEIGHT  
 400 W HPS LUMINAIRE

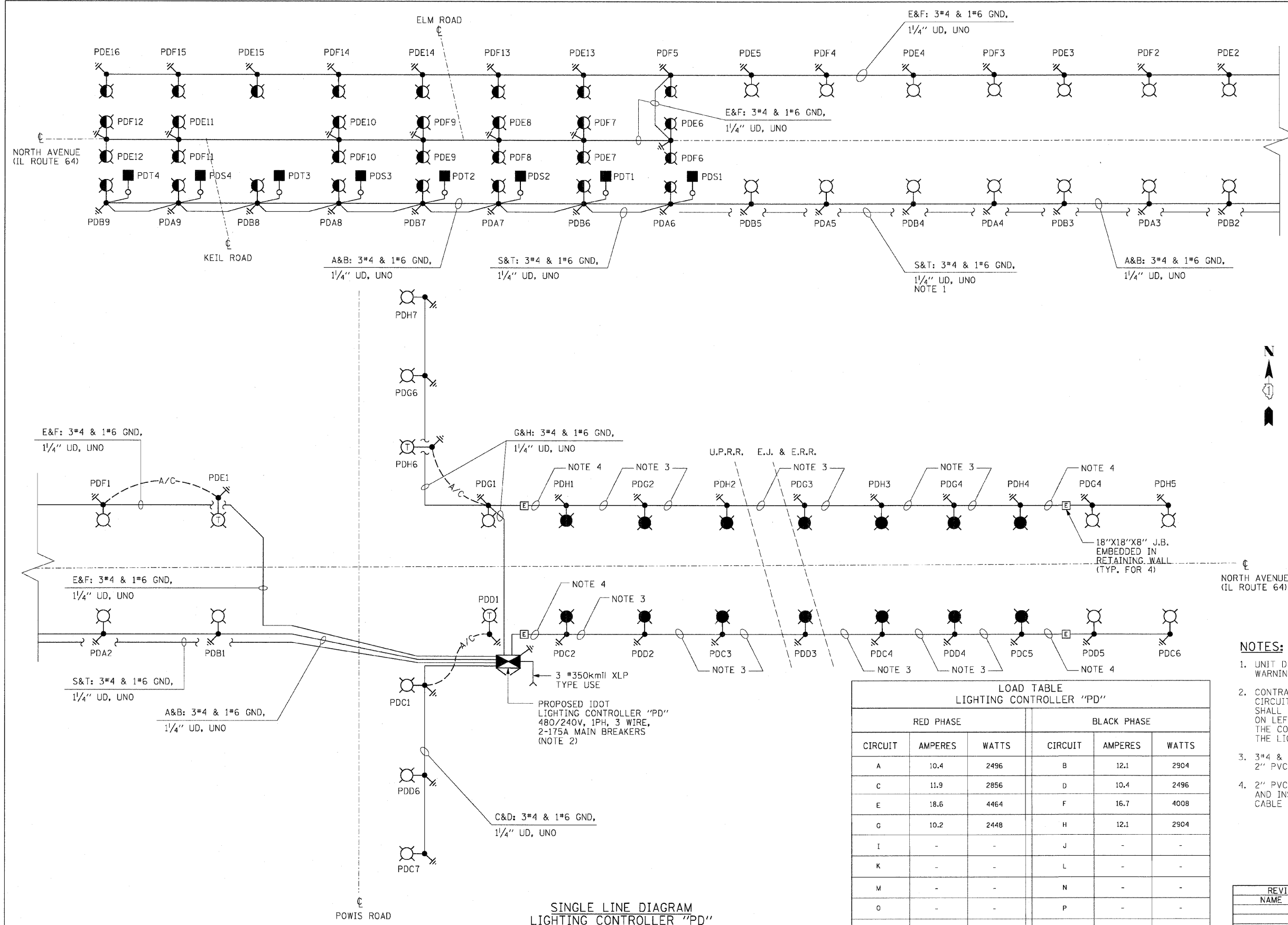
**NOTES:**

- UNIT DUCT THAT FEED CIRCUITS S AND T, OBSTRUCTION WARNING LUMINAIRE, SHALL LOOP AROUND POLE FOUNDATION.
- CONTRACTOR SHALL FURNISH AND INSTALL TWO 30 AMP, 1 POLE, CIRCUIT BREAKERS FOR CIRCUITS S AND T. EACH CIRCUIT BREAKER SHALL BY-PASS THE LIGHTING CONTROLLER. INSTALL CIRCUIT BREAKERS ON LEFT SIDE PANEL. ADJACENT TO AUTO-MANUAL SWITCH (ITEM O) THE COST OF THESE CIRCUIT BREAKERS SHALL BE INCLUDED IN THE LIGHTING CONTROLLER CABINET PAY ITEM.
- 3" #4 & 1" #6 GND MULTI-CONDUCTOR TYPE TC CABLE IN 2" PVC CONDUIT EMBEDDED IN RETAINING WALL.
- 2" PVC CONDUIT EMBEDDED IN RETAINING WALL. REMOVE UNIT DUCT AND INSTALL 3" #4 & 1" #6 IN CONDUIT TO FIRST LIGHT POLE ON WALL. CABLE IN CONDUIT SHALL BE PAID AS UNIT DUCT.

RED PHASE			BLACK PHASE		
CIRCUIT	AMPERES	WATTS	CIRCUIT	AMPERES	WATTS
A	10.4	2496	B	12.1	2904
C	11.9	2856	D	10.4	2496
E	18.6	4464	F	16.7	4008
G	10.2	2448	H	12.1	2904
I	-	-	J	-	-
K	-	-	L	-	-
M	-	-	N	-	-
O	-	-	P	-	-
S	0.1	24	T	0.1	24

TOTAL LOAD=24,624 WATTS

**SINGLE LINE DIAGRAM  
 LIGHTING CONTROLLER "PD"**  
 NOT TO SCALE



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.P. ROUTE 307 (ILLINOIS ROUTE 64)

**SINGLE LINE DIAGRAM  
 LIGHTING CONTROLLER "PD"**

SCALE: NONE  
 DATE: NOVEMBER 1, 2011  
 DRAWN BY: HR  
 CHECKED BY: JPC

