



PROPOSED LIGHTING CONTROLLER "C107" WIRING DIAGRAM
N.T.S.

LEGEND:

- PROPOSED LIGHTING UNIT: 400W, 240V PHASE TO NEUTRAL, HPS LUMINAIRE WITH TYPE III DISTRIBUTION, 45'-2" ALUMINUM POLE SHAFT ON 24" DIAMETER CONCRETE FOUNDATION, 47'-6" MOUNTING HEIGHT, 12'-0" MAST ARM, WITH 5A FUSES AND T-BASE (RED PHASE-OPEN SYMBOL, BLACK PHASE-SHADED SYMBOL)
- RELOCATED LIGHTING UNIT, PROVIDE NEW 250W HPS, 240V, MC-III LUMINAIRE ON A RELOCATED POLE IN PROPOSED LOCATION, WITH 5A FUSES AND T-BASE (RED PHASE-OPEN SYMBOL, BLACK PHASE-SHADED SYMBOL)
- PROPOSED 120V, 20A, GFCI RECEPTACLE ON PROPOSED ROADWAY LIGHTING UNIT (ORANGE PHASE-OPEN SYMBOL, BROWN PHASE-SHADED SYMBOL)
- PROPOSED ROADWAY LIGHTING CONTROLLER SINGLE DOOR, BASE MOUNTED, SPECIAL 200A, 240/480V, 1Ø, 3W
- PROPOSED COMED PAD-MOUNTED TRANSFORMER FOR UTILITY SERVICE CONNECTION
- PROPOSED CONDUIT AND CABLE AS IDENTIFIED TO SECONDARY SIDE OF UTILITY SERVICE CONNECTION
- PROPOSED UNIT DUCT: SIZE AND QUANTITY OF CONDUCTORS AS IDENTIFIED

NOTES:

1. SEE DRAWING E-1 FOR ELECTRICAL ABBREVIATIONS. SEE DRAWING E-2 FOR ELECTRICAL GENERAL NOTES.
2. COLOR CODING OF CONDUCTORS FOR 240/480V, 1Ø, 3W LIGHTING SYSTEM IS AS FOLLOWS:
 "A" PHASE - RED
 "B" PHASE - BLACK
 NEUTRAL - WHITE
 GROUND - GREEN
3. COLOR CODING OF CONDUCTORS FOR 120/240V, 1Ø, 3W RECEPTACLE SYSTEM IS AS FOLLOWS:
 "A" PHASE - ORANGE
 "B" PHASE - BROWN
 NEUTRAL - GRAY
 GROUND - GREEN
4. MEDIAN RECEPTACLE ARE FOR FUTURE LAND-SCAPING PROJECT.



CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
A	10	2400	B	8	1920
C	10	2400	D	8	1920
E	5.1	1248	F	6	1440
G	5.1	1248	H	6	1440
I	--	--	J	--	--
K	--	--	L	--	--
M	--	--	N	--	--
O	--	--	P	--	--
Q	--	--	R	--	--
S	--	--	T	--	--
U	--	--	V	--	--
W	12	2880	X	10.5	2520
TOTAL	42.2	10128	TOTAL	38.5	9240

CIRCUIT	ORANGE PHASE		CIRCUIT	BROWN PHASE	
	AMPS	WATTS		AMPS	WATTS
R1	7.5	900	R2	6	720
R3	7.5	900	R4	6	720
R5	4.5	540	R6	4.5	540
R7	4.5	540	R8	4.5	540
R9	--	--	R10	--	--
R11	--	--	R12	--	--
R13	--	--	R14	--	--
R15	--	--	R16	--	--
R17	--	--	R18	--	--
TOTAL	24	2880	TOTAL	21	2520

LOAD TABULATION IS BASED ON THE FOLLOWING:

400W HPS LUMINAIRE: 2.0A AT 240V
250W HPS LUMINAIRE: 1.1A AT 240V

LOAD TABULATION IS BASED ON THE FOLLOWING:

180W RECEPTACLE: 1.5A AT 120V
360W MEDIAN RECEPTACLE: 3.0 AT 120V (NOTE 4)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 (LaGRANGE ROAD)
PROPOSED LIGHTING CONTROLLER "C107" WIRING DIAGRAM

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	540
E-14			CONTRACT NO. 60F05	
ILLINOIS FED. AID PROJECT				