



LIGHTING CONTROLLER "C103" 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)
- EXISTING LIGHTING POLE RELOCATED WITH NEW 250 HPS AND GFCI RECEPTACLE, 5A FUSES (LIGHTING UNIT ON RED PHASE- OPEN SYMBOL, BLACK PHASE-SHADED SYMBOL)
- PROPOSED 120V, 20A, GFCI RECEPTACLE ON PROPOSED LIGHTING UNIT (ORANGE PHASE- OPEN SYMBOL, BROWN PHASE-SHADED SYMBOL)
- PROPOSED ROADWAY LIGHTING CONTROLLER 200A, 240/480V, 1Ø, 3W, SPECIAL SINGLE DOOR, BASE MOUNTED
- PROPOSED COMED PAD-MOUNTED TRANSFORMER FOR UTILITY SERVICE CONNECTION
- PROPOSED CONDUIT AND CABLE AS INDICATED TO SECONDARY SIDE OF UTILITY SERVICE CONNECTION
- PROPOSED UNIT DUCT; SIZE AND QUANTITY OF CONDUCTORS AS INDICATED

CIRCUIT	RED PHASE		BLACK PHASE		
	AMPS	WATTS	AMPS	WATTS	
A	6	1440	B	4	480
C	6	1440	D	5.1	1224
E	7.1	1704	F	5.1	1224
G	6	1440	H	4	480
I	3.3	792	J	2.2	528
K	4.4	1056	L	4.4	1056
M	--	--	N	--	--
O	--	--	P	--	480
Q	--	--	R	--	--
S	--	--	T	--	--
U	--	--	V	--	--
W	15	3600	X	12	2880
TOTAL	47.8	11472	TOTAL	52.625	8832

LOAD TABULATION IS BASED ON THE FOLLOWING:

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

CIRCUIT	ORANGE PHASE		BROWN PHASE		
	AMPS	WATTS	AMPS	WATTS	
R1	4.5	540	R2	3	360
R3	4.5	540	R4	4.5	540
R5	6	720	R6	4.5	540
R7	4.5	540	R8	3	360
R9	4.5	540	R10	3	360
R11	6	720	R12	6	720
R13	--	--	R14	--	--
R15	--	--	R16	--	--
R17	--	--	R18	--	--
TOTAL	30	3600	TOTAL	24	2880

LOAD TABULATION IS BASED ON THE FOLLOWING:

180W RECEPTACLE: 1.5A AT 120V
• FOR FUTURE MEDIAN RECEPTACLE LOADS

NOTES:

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

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URS

FILE NAME =	USER NAME =	DESIGNED -	REVISD -
D160M61-SHT-E40.dgn	michal_bartusiewicz	DAD	-
		DRAWN -	REVISD -
		DAD	-
SHT_PLAN	PLOT SCALE = 2.000000' / in.	CHECKED -	REVISD -
		DAD	-
	PLOT DATE = 3/15/2013	DATE -	REVISD -
		03/13/2013	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 (LaGRANGE ROAD)
LIGHTING CONTROLLER "C103" WIRING DIAGRAM

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-4	COOK	877	451
E-40		CONTRACT NO. 60M61		
ILLINOIS FED. AID PROJECT				