



BILL OF MATERIAL		
ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 240 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 120 VOLT.
C	4	CIRCUIT BREAKERS, 2 POLE, 277V, 100 AMP. FRAME 30 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 120 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 120 V.
E	1	INTERMATIC MODEL NO. ET173C CONTROLLER (TIME SWITCH WIRED IN SERIES WITH PHOTOCELL) WITH PHOTOCELL MOUNTED IN VENT SLOTS OF CABINETS OVERHANG.
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
I	1	INCANDESCENT LIGHTING FIXTURES ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20A., 120V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER NEUTRAL BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 MM) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	2	TOGGLE SWITCHES SPDT MOUNTED IN X 4" (101.6 MM) BOX.
M	1	COPPER GROUND BUS 1/4" (6.35) 1" (25.4) 12" (304.8 MM) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS

- NOTES:**
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 - UNLESS OTHERWISE INDICATED, THE CABINET SHALL BE MOUNTED ATOP A 4-INCH (101.6 mm) RIGID ALUMINUM SCHEDULE 40 CONDUIT STEM ANCHORED TO A CAST ALUMINUM PEDESTAL BASE.
 - IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (1524 mm) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
 - DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
 - DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
 - DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
 - ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
 - CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
 - METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
 - CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
 - THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
 - ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
 - PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
 - ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
 - THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
 - 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "CITY OF EVANSTON LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
 - PHOTOCELL SHOULD CONTROL THE SYSTEM. TIMECLOCK SHOULD HAVE THE ABILITY TO OVERRIDE THE PHOTOCELL.

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FILE NAME =	USER NAME = #USER#	DESIGNED - AM	REVISED -
#FILES#		DRAWN - AM	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - GR	REVISED -
	PLOT DATE = #DATE#	DATE - 12/01/2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EVANSTON LAKE FRONT PATH
LIGHTING CONTROLLER DETAIL**

SCALE: 1"=40' SHEET NO. OF SHEETS STA. 97+00 TO STA. 106+83

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00246-00-BT	COOK	81	51
ITEM NO. 102121		CONTRACT NO. 63423		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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