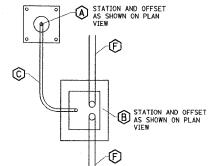
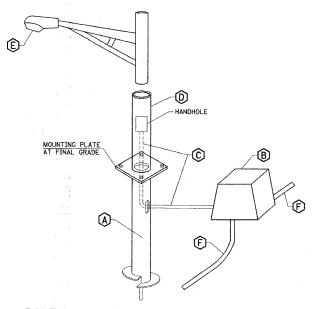




SECTION



## FOUNDATION/HANDHOLE DETAIL



SUMMARY OF ROADWAY LIGHTING QUANTITIES					
CODE NO.	ITEM	UNIT	QTY		
80400105	ELECTRIC SERVICE INSTALLATION SPECIAL	EACH	1		
81012400	CONDUIT IN TRENCH, 11/4" DIA., PVC	FOOT	510		
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	5494		
81021550	CONDUIT, AUGERED 2" DIA., PVC	FOOT	885		
81306100	JUNCTION BOX, SPECIAL, 12"Wx12"Lx12"D	EACH	40		
	JUNCTION BOX, SPECIAL, 24"Wx13"Lx12"D	EACH	1		
81500205	TRENCH AND BACKFILL FOR ELECTRICAL WORK, SPECIAL	FOOT	5954		
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10 FOOT 2300				
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 FOOT 148				
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	17525		
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT EACH 3				
82500505	LIGHTING CONTROLLER, SPECIAL EACH				
83008300	LIGHT POLE, ALUMINUM, 40 FT. M.H., 8 FT. MAST ARM EACH 33				
83600405	POLE FOUNDATION, STEEL	EACH	33		

### CONTRACTOR SHALL PROVIDE UTILITY METER SOCKET. REQUIREMENTS WITH AMEREN IP COORDINATE EXACT 02 + 9 10 4 888 INSTALLATION ------(2)-3" SERVICE ENTRANCE RACEWAY 8 8 8 8 6 -EXOTHERMIC WELD -3/4" DIA. X 10' COPPER CLAD GROUND ROD -#6 BARE GROUND WIRE -1" PVC CONDUIT FOR GROUND WIRE -PROVIDE (4) 2" PVC CONDUITS INTO CABINET FOR ROADWAY LIGHTING CONTROLLER: (2) CONDUITS SHALL BE ROUTED TO JUNCTION BOX AS SHOWN ON PLANS. (2) CONDUITS SHALL BE STUBBED 24" BEYOND CONTROLLER FOUNDATION AND CAPPED BELOW GRADE.

# CONTROL CABINET, FOUNDATION AND DIAGRAMMATIC ASSEMBLY DETAIL

r:			
LIGHTING		CONTROLLER #74 BILL OF MATERIALS	
QTY	ITEM	DESCRIPTION	
1	1	100A, 120/240V, 10, 30 CIRCUIT PANELBOARD (INTERIOR ONLY, NO PANEL TUB), QUANTITY OF BREAKERS AS SHOWN IN PANELBOARD SCHEDULE	
1	2	HAND-OFF-AUTO SELECTOR SWITCH WITH LEGEND PLATE.	
1	3	120 VAC, 20A, 1P PLUNGERTYPE SWITCH FOR CONTROLLER LIGHT, DOOR ACTIVATED	
1	4	INCANDESCENT LIGHT FIXTURE WITH CLEAR GLOBE AND PROTECTIVE GUARD. PROVIDE 60WATT, 130VAC LAMP.	
1	5	PHOTOCELL SWITCH WITH LOCKING TYPE RECEPTACLE AND INTEGRAL SURGE ARRESTORS. PHOTOCELL SHALL BE CABINET MOUNTED AND SHIELDED FROM SURROUNDING LIGHT SOURCES, WITH TIME DELAY RELAY TO PREVENT NUISANCE SWITCHING. (SEE PHOTOCELL DETAIL).	
1	6	DUPLEX RECEPTACLE, 120VAC, 20A, GFCI TYPE.	
1	7	TERMINAL STRIPS, QUANTITY AS REQUIRED FOR INCOMING WIRING PLUS 100% SPARE TERMINALS. PROVIDE SEPARATE TERMINAL STRIPS FOR POWER, NEUTRAL AND GROUND WIRING AS REQUIRED.	
8	8	LIGHTING CONTACTOR, 30A, 240VAC, 2 POLE, 120VAC ELECTRICALLY HELD COIL. PROVIDE SPACE FOR ADDITIONAL CONTACTORS.	
1	9	SURGE ARRESTOR	
i	10	CONTROL WIRING TERMINAL BLOCK	

## POLE/LUMINAIRE INSTALLATION DETAIL NO SCALE

#### ELECTRICAL KEYNOTES (THIS SHEET)

- (A) STEEL FOUNDATION 6' LONG, 8 5/8" DIAMETER WITH THREADED HOLES FOR 1" BOLTS OR STUDS. A.B. CHANCE CT112-0353 OR APPROVED EQUAL. COORDINATE BOLT CIRCLE DIAMETER WITH POLES BEING PROVIDED.
- (B) CDR 12"W x 12"L x 12"D (UNLESS OTHERWISE INDICATED IN THE PLANS) FLARED WALL BOX WITH HEAVY DUTY COVER CAT.\* PA22-1212-12-0062 OR APPROVED EQUAL.
- (C) 1 1/4" SCHEDULE 40 PVC FROM JUNCTION BOX TO 6" ABOVE BASE WITH 2 #10, 1 \*10 GND. TO LUMINAIRE. PROVIDE A TWO POLE FUSEHOLDER WITH FUSES PER IDOT STANDARD SPECIFICATION 1065.01. PROUDE SKAGE PROTECTOR—AT AGAD SIDE OF FASE MALDER PER IDOT STANDARD SPECIFICATION 1065.02.

  (D) 40" HAPCO SPUN ALUMINUM POLE WITH 8" MAST ARM. 8" DIAMETER AT BOTTOM OF POLE, TAPERS TO 6" AT TOP WITH 0.188" THICKNESS AND 11" TO 12" BOLT CIRCLE. HAPCO NO. 50704-014P1, BLACK, OR APPROVED EQUAL.
- (E) 250 WATT, HIGH PRESSURE SODIUM LUMINAIRE, FULL CUT-OFF, M-C-III DISTRIBUTION. LUMEC-HELIOS HBS SERIES CATALOG NO. HBS-250HPS-Mc3-240-R-HPF-BK, BLACK, OR APPROVED EQUAL. LAMP PER IDOT STANDARD SPECIFICATION 1067.02.
- $\begin{tabular}{lll} \hline \end{tabular}$  Conduit to adjacent handhole or 12" stub for future extension of lighting circuit.

ILLINOIS DEPARTMENT OF TRANSPORTATION

ROADWAY LIGHTING DETAILS

DATE : 8-05

SCALE : NONE

DRAWN BY : S.M.W. CHECKED BY : J.J.F.