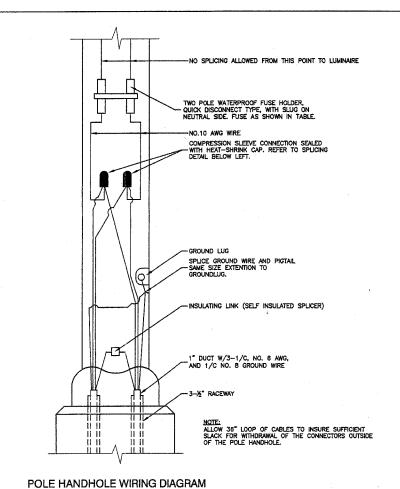
 FAP. RIE	SECTION		COUNTY		TOTAL SHEETS	SHEET	
344	3034 N-1		соок		71	42	
FED. RC	ROAD DIST. NO. 1		OIS	FED. AID PROJECT			



(TYPICAL FOR SINGLE LUMINAIRE INSTALLATION)

CONTROLLER WIRING DIAGRAM

(0)

0 ALL WIRES NO. 6 AWG

(5)

(18)

10.1/0 AWG

(11) 12

NO.1/0 AWG

GENERAL NOTES FOR CONTROL CABINET

1. ENTIRE CONTROL CABINET SHALL BE GROUNDED.

(5)

NO.8 AWG

(A)

4 9 4 9 9 9 9 9 9 9 9

1/2" THICK BENELEX PANEL BOARD

3- 1/C, NO.10 AWG, IN 1" CONDUIT

TO GROUND ROD -

16

2

- 2. ALL WIRING SHALL BE TAGGED WITH SELF-STICKING WIRE MARKERS.
- 3. GROUND BUS TO BE COLOR CODED GREEN, NEUTRAL BUS WHITE, AND BONDED TO CABINET ENCLOSURE BY LISTED PRESSURE CONNECTORS OR LISTED CLAMPS.
- 4. ALL INTERNAL CONTROLLER WIRING TO BE NO.12 AWG UNLESS OTHERWISE SPECIFIED.
- 5. CABINET WIRING INSULATION TO BE TYPE XHHW OR APPROVED EQUAL.

TRIMMED CABLES-COMPRESSION TYPE COPPER SLEEVE. (SIZED FOR ACTUAL NUMBER OF CABLES AND MFR. SUGGESTED CRIMP TOOL USED) HEAT-SHRINKABLE CAP WITH FACTORY APPLIED WATERPROOF SEALANT. (SIZED TO— ACCOMMODATE NUMBER OF CABLES). SEALANT TAPE OR INSERT. (AROUND AND THROUGH CROTCH OF *NOTE: THAT NUMBER OF CABLES IN SPLICE MAY VARY. ELECTRIC FEEDER CABLES, SUCH AS UNIT DUCT (SIZE AS NOTED ON CONTRACT DRAWINGS). -EXPOSED SEALANT ELECTRIC CABLE TO LUMINAIRE (SIZE AS NOTED ELSEWHERE IN THESE PLANS). SPLICING ELECTRIC CABLES BASIC MATERIALS AND METHODS

CONTROLLER WIRING DIAGRAM LEGEND

- 3-1/C, NO. 1/0, 600V SERVICE WIRE IN 2° DIA, GALVANIZED STEEL CONDUIT FOR 240/480 VOLT, 10, 3 WIRE, 60HZ. SERVICE.
- (1) 60 AMP MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT, 100 AMP BASE, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA 14000 AMP AT 480 V. 2
- (1) 60 AMP REMOTE CONTROL CONTACTOR SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, MINIMUM 60 AMP, 600 VOLT 3
- (4) 30 AMP CIRCUIT BREAKER, 1 POLE, 240 VOLT, 100 AMP BASE, NON-INTER-CHANGEABLE TRIP RATING NEMA -- 14000 AMP AT 240 VOLTS. **(4)**
- (3) 20 AMP CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 VOLT, 100 AMP BASE, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA 14000 AMP AT 240 V. (5)
- (1) 20 AMP, 1 POLE DOUBLE THROW, 240 VOLT RELAY
- (1) 1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240x480/120x240 VOLT, 60 HZ. 7
- (1) 20 AMP, 120 VOLT DUPLEX GFC: RECEPTACLE.
- NEUTRAL BUS BAR, 1/4"x1"x12" LONG MOUNTED ON PANEL WITH TAPS.
- 10
- (1) SWITCH FOR LIGHTING FIXTURE MOUNTED IN BOX.
- (12) WEATHER-PROOF INCANDESCENT LIGHTING FIXTURE WITH 60 WATT, 120 V LAMP.
- (13) PHOTOCELL MOUNTED TO TOP OF NEAREST LIGHT POLE, 240 V.
- (14) NO. 8 AWG INSULATED GROUND WIRE
- (15) IN-LINE FUSEHOLDER WITH FUSE AS NOTED IN FUSE TABLE
- (16) GROUND BUS BAR 1/4"x1"x12" LONG MOUNTED ON PANEL WITH TAPS.
- (T) LUMINAIRE, 250 HPS
- (B) (A) (B) (C) SURGE SUPPRESSOR
- CIRCUIT
- CIRCUIT

9

- CIRCUIT
- 0

LIGHTING GENERAL NOTES

- 1. ALL WORK TO CONFORM TO THE NATIONAL ELECTRICAL CODE AND ANY APPLICABLE LOCAL CODES.
- 2. CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES BEFORE TRENCHING OR AUGERING.
- 3. BEFORE INSTALLING STANDARDS NEAR OVERHEAD FACILITIES CALL C.E. Co. FOR APPROVAL OF LOCATION.
- 4. FOR LOCATION OF EXISTING UNDERGROUND ELECTRICAL CABLE CALL C.E. Co.
- 5. SIZE ALL CONDUIT AS SPECIFIED ON DRAWINGS.
- 6. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO RESTORE ANY SPECIALIZED LANDSCAPING,
- (i.e. DECORATIVE ROCKS, SHRUBS, PLANTS, ECT.) OR SHALL REPLACE IT, THE COST OF WHICH SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

NOMINAL WATTAGE FUSE SIZE 3.5 AMP

LUMINAIRE FUSE SIZE TABLE

MFT SECTION 06-00173-00-LT

CONSULTING REGISTER	ROBINSON ENGINEERING, LTD. CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 1700 SOUTH PARK WENUE SOUTH HOLLAND, LLINCIS 90473 (709) 331-9700 (© COPYRIGHT 2008 ILLINOIS DESIGN FRM REGISTRATION NO. 184001128.					
17000 SOUTH PARK AVENUE (708) 331-6700 © COPY						
127TH STREE STREE	F.A.P. ROUTE 344 127TH STREET @ MAPLE ROAD STREET LIGHTING DETAILS					
BLUE ISLAND,	ILLINOIS			-		
Drawn by: RG	Date: 11/27/06			1		
Checked by: PAP	Scale: NONE			T		
Sheet of	Project No. 06-688					

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