

COUNTY TOTAL SHEET NO. SECTION LAKE 562 412 2012-5 TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT *6088 D-91-552-99

LEGEND:

- A. ANCHOR BOLTS 3/4" X 12" GALVANIZED OR STAINLESS STEEL, THREADED 8NC FOR TOP 6", FURNISHED WITH 2 GALVANIZED FLAT WASHERS AND 2 GALVANIZED HEX NUTS.
- B. GROUND WIRE RACEWAY 2" DIA. MIN. EXTENDED TO THE GROUND FIELD
- C. DEFORMED TIE BARS
- D. LIGHTING CIRCUIT RACEWAY 2" DIA. MIN.
- E. ORNAMENTAL PEDESTAL BASE WITH HANDHOLE DOOR HELD IN CONCRETE PAD 24" X 24" X 8 PLACE WITH STAINLESS STEEL SCREWS, BASE TO BE WELDED TO PEDESTAL.

TYPICAL CONTROL CABINET AND FOUNDATION DETAIL

NOTES:

- 1. THE CONTROL CABINET SHALL BE NEMA 3R ALUMINUM WITH MOUNTING PANEL SIZE OF (28"H X 17"W) MIN. CONTROL CABINET SHALL BE AS MANUFACTURED BY HENNESSY PRODUCTS INC. OR APPROVED EQUAL.
- 2. THE CONTROL CABINET FOUNDATION SHALL BE CLASS SI CONCRETE. REINFORCING STEEL WILL NOT BE REQUIRED EXCEPT TO TIE IN THE SERVICE PAD.
- 3. CONTROL CABINET AND PEDESTAL SHALL BE PAINTED GREEN.
- 4. ALL CABLE OPENINGS IN THE PEDESTAL BASE SHALL BE SEALED WITH DUCT SEAL.

TO BE PLACED IN FRONT OF

CONTROL CABINET

5. PROVIDE A 12" X 6" STAINLESS STEEL NAME PLATE, RIVET TO DOOR WITH ALUMINUM RIVETS, NAME PLATE SHALL READ "VILLAGE OF BUFFALO GROVE, LIGHTING CONTROL CABINET" ENGRAVED WITH 0.75 INCH HIGH LETTERS FILLED IN BLACK

CONTROL CABINET NOMENCLATURE:

- (1) 10,000 AMP SURGE ARRESTOR (ELECTRONIC GUARD, EG 240 RC BY INTERMATIC).
- (2) 100AMP, 2 POLE MAIN CIRCUIT BREAKER, 240V, 22KAIC (TYPE "TEB" BY GENERAL ELECTRIC OR TYPE "FAL" BY SQUARE D).
- (3) 100AMP, 2 POLE SINGLE THROW.ELECTRICALLY OPERATED, MECHANICALLY HELD CONTACTOR (GENERAL ELECTRIC OR SQUARE D).
- (4) FOUR 40AMP, 2 POLE CIRCUIT BREAKERS, 240V (TYPE "TEB" BY GENERAL ELECTRIC OR TYPE "FAL" BY SQUARE D).
- (5) 15AMP, 1 POLE CIRCUIT BREAKER, 120V (TYPE "TEB" BY GENERAL ELECTRIC OR EQUAL).
- (6) 20AMP, H-O-A SWITCH, 120V MOUNTED ON 4" X 4" BOX.
- (7) AUXILIARY CONTROL RELAY WITH CONTACTS RATED FOR CONTACTOR INRUSH CURRENT.
- (8) PHOTO-CELL WITH 2 MINUTE TIME DELAY. 120V, MOUNTED ON LUMINAIRE CLOSEST TO THE CONTROL CABINET, BY "TORK" OR APPROVED EQUAL. PROVIDE 3#12 THWN, 1#12 GND. IN 3/4" GRS CONDUIT TO LIGHT POLE AS REQUIRED. WIRING AND CONDUIT SHALL BE INCIDENTIAL TO "LIGHTING CONTROLLER SPECIAL ITEM"

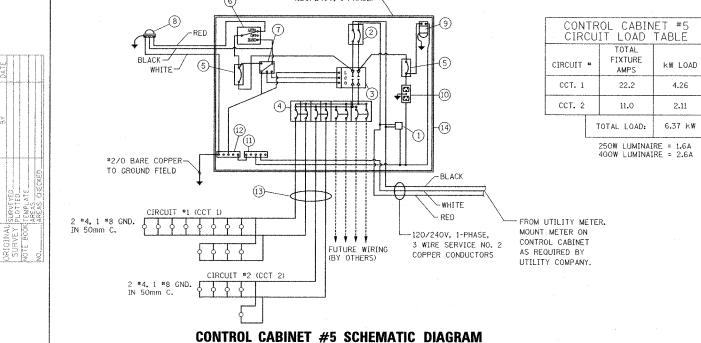
- (9) WATER PROOF INCANDESCENT LIGHTING FIXTURE WITH 120V, 60 WATT BULB AND PULL CHAIN SWITCH.
- (10) 15AMP, 120V, DUPLEX GFCI OUTLET.
- (11) 1" X 12" NEUTRAL STRIP LABELED "NEUTRAL" AND JOINED TO THE GROUND STRIP WITH A BONDING JUMPER.
- (12) 1" X 12" GROUND STRIP LABELED "GROUND" AND PAINTED GREEN.
- (13) 1 #8 GROUND WIRE REQUIRED FOR EACH CIRCUIT. GROUND WIRE NOT SHOWN FOR SAKE OF CLARITY.
- (14) ITEMS ASSOCIATED WITH LIGHTING CONTROL CABINET, INCLUDING GROUND FIELD, SERVICE ENTRANCE CONDUIT AND WIRING, PHOTOCELL AND PHOTOCELL CONDUIT AND WIRING, SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO "LIGHTING CONTROLLER SPECIAL" ITEM.

Burns & McDonnell SINCE 1898

ILLINOIS DEPARTMENT OF TRANSPORTATION IL RTE 22 (FAP 337) IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE) **ELECTRICAL DETAILS** (3 OF 3)

SCALE: DATE: 03-22-2004

DRAWN BY: CMW CHECKED BY: MAR



(THIS DIAGRAM IS GENERAL IN NATURE, THE CONTRACTOR SHALL SUPPLY SHOP

THE VILLAGE FOR THEIR APPROVAL PRIOR TO THE START OF CONSTRUCTION.)

DRAWINGS AND CATALOG CUTS FOR THE SPECIFIC EQUIPMENT TO BE USED TO