SECTION COUNTY TOTAL SHEE SHEETS NO. WILL 255 121 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO. 83126

DEVICE SCHEDULE ITEM QTY DESCRIPTION CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 600V. A.C. 225A FRAME, 200A. NON-INTERCHANGABLE TRIP. BOLT-ON TYPE: INTERLIPTING CAPACITY OF NOT LESS THEN 55,000 RMS SYMMETRICAL AMPERES AT 240V. LIGHTING CONTACTOR
(REMOTE CONTROL SWITCH) MECHANICALLY
HELD. SQ.D PB MOUNTED ON SUB PANEL
100A, 2P, 600V. WITH 120V. COIL. CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 15A, 277V. BOLT-ON TYPE WITH AN INTERUPTING RATING OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V SURGE ARRESTOR, FOR 240/120V, 3 WIRE SERVICE E 1 PHOTOCELL, 120 V, 1 PHASE TIMECLOCK, 120V, 60 HZ, MICROPROCESSOR BASED 2-CHANNEL CONTROLLER WITH ASTRONOMIC FUNCTIONS. RATED FOR -30 % G 2 GROUND/NEUTRAL BUS, COPPER, 22 CONNECTORS, (MIN.) 8 CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 30A, 277V. BOLT-ON TYPE WITH AN INTERUPTING RATING OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V 12 CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 30A, 277V. BOLT-ON TYPE WITH AN INTERUPTING RATING OF NOT LESS THAN 14,000 FMS SYMMETRICAL AMPERES AT 277V GFIRECEPTACLE, 120V. 20A. PREMIUM SPEC.
GRADE. NEMA REFERENCE 5-15R IN WEATHER
PROOF BOX WITH FLAP-TYPE COVER. (NEC 406.8B.2.a) MICRO SWITCH (MOUNTED WITH ACTUATOR TO SWITCH WHEN DOOR OPENED) 120 V LIGHT FIXTURE, VAPORTIGHT, WITH GLOBE AND GUARD AND MOUNTING BOX. L 2 RELAY, 120V - COIL M 2 MANUAL-OFF-AUTO 3 POSITION SWITCH N 1 METER FITTING, 200A 0 | I SPLICE BLOCK

PHOTOCELL MOUNTED IN CABINET OVERHANG

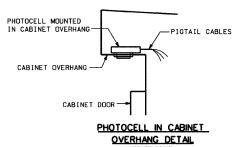
NOTES

- 1. THE CABINET SHALL BE FABRICATED FROM 0.125" THICK ALUMINUM ALLOY SHEET AND SHALL BE REINFORCED WITH ALUMINUM ANGLES. THE CABINET DOOR SHALL BE NEMA TYPE 3R CONSTRUCTION WITH NEOPRENE GASKET. THE DOOR SHALL HAVE STAINLESS STEEL HINGES AND THREE POINT LOCKING SYSTEM.
- 2. THE CONTRACTOR SHALL REMOVE VEGETATION AND TOPSOIL, LEVEL THE AREA IN FRONT OF THE CONTROL CABINET DOOR AND PLACE LENGTH WISE, PARALLEL TO CONTROL CABINET, A PRECAST PAD, 48"x48"x4" MINIMUM SIZE. THE COST OF LABOR AND MATERIALS SHALL BE INCIDENTAL TO THE CONTROL CABINET.
- 3. CONTROL WIRE SHALL BE #12 AWG, 600V, TYPE "MTW" STRANDED COPPER GRAY SWITCH BOARD WIRE. THE ENDS OF ALL CONTROL WIRES SHALL BE IDENTIFIED.
- 4. THE ELECTRIC METER BOX SHALL BE MOUNTED ON THE SIDE OF THE CONTROL CABINET, NEAR TO THE SERVICE POLE AND/OR AS DIRECTED BY THE ENGINEER.
- 5. ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE PERMANENT AND OTHER OPEN DEVICES, SHALL HAVE PERMANENT SELF STICKING TAGS. DEVICES IN ENCLOSURES SHALL HAVE ENGRAVED 2-COLOR LAMINATED PLASTIC NAMEPLATES ATTACHED TO ENCLOSURES WITH SCREWS. NAMEPLATES SHALL BE ENGRAVED TO CORRESPOND TO DESIGNATIONS ON THE DRAWINGS. INTERNAL CABINET WIRING SHALL BE IDENTIFIED AS INDICATED OR AS DIRECTED BY THE ENGINEER BY MEANS OF SELF-STICKING TAGS APPLIED AT EACH CONNECTED END. IDENTIFICATION SHALL BE MADE BY THE CABINET MANUFACTURER.
- 6. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.

 R = RED BL = BLUE W = WHITE

 B = BLACK Y = YELLOW G = GREEN

- 7. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- 8. THE CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED. THE OUTSIDE SURFACE OF THE CONTROL CABINET SHALL
- 9. THE HEADS OF CONNECTOR SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BUSS CONNECTION AND GREEN FOR GROUND BUSS CONNECTORS.
- 10.ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- 11.THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL
- 12.PROVIDE A HOLDER AND WATERPROOF POUCH ON THE INNER SIDE OF THE CONTROLLER DOOR. THE HOLDER AND POUCH SHALL BE MOUNTED SO THAT RAIN WATER OR CONDENSED WATER CANNOT ENTER THE POUCH WITH THE CABINET DOOR OPEN. FURNISH A LAMINATED APPROVED COPY
- 13. THE CONTRACTOR SHALL OBTAIN ANCHOR BOLTS LOCATION TEMPLATE FROM THE FABRICATOR OF LIGHTING CONTROLLER.
- 14. THE CONTROLLER FABRICATION SHALL COMPLY TO ARTICLE 1068.01 OF THE STANDARD SPECIFICATIONS.
- 15. THE CONTROLLER CABINET DOOR SHOULD OPEN AWAY FROM THE STREET.
- 16.THE SERVICE EQUIPMENT SHALL HAVE U.L. LABEL AND SHALL BE MARKED TO IDENTIFY IT AS BEING SUITABLE FOR USE AS SERVICE EQUIPMENT (NEC ARTICLE 230.66).



120/240V

1* 3 WIRE

M

#2/0 AWG

RED

30A

-6 30A

-630A

-610-

-612-

10

L 0-

(H-1)

-610-

30A 60-

30A 60-

30A 60-

LIGHTING CIRCUITS

-612

<u> –60 –</u>

-60-

30A SPARE

FROM SERVICE POLE: ELECTRIC CABLE IN CONDUIT 600V

(XLP- TYPE USE) 3-1/C NO. 3/0 2 1/2" DIA. CONDUIT

(

#2/0 AWG

NEUTRAL BUS -

GROUND BUS

(6)

200 A - 120/240V, 1 PHASE, 3W

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60193-1572

ILLINOIS DEPARTMENT OF TRANSPORTATION T.R. 55 (RENWICK RD.) PLANFIELD TOWNSHIP, WILL COUNTY

LIGHTING CONTROLLER, SPECIAL

SCALE: NTS DATE: OCT 30 2009 DRAWN BY HKQ CHECKED BY

V:\2545\SUNJOY LIGHTING INFO\PDF files from Email 04-09-10.pdf

GROUND CONDUCTOR *2/0

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LO

H-2

30A 60-F3

30A 6 0 F4

30A 60-F7

30A 60-F8

30A 6 0-SPARE

PANEL BOARD

SPARE 0 30A 30A 0 SPARE

FESTOON CIRCUITS

ORANGE

BLUE

F1 -6 30A

F2 -6 30A

F5 6 30A

F6 6 30A

SPARE 6 30A

ONE LINE CIRCUIT DIAGRAM

200 AMPERE- 120/240 VOLT, SINGLE PHASE, 3 WIRE

E-15 OF E-17