

PANEL EQUIPMENT

BILL OF MATERIAL		
ITEM	QUANTITY	DESCRIPTION
А	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 40 AMP, FRAME, 100 AMP, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP, AT 480 VOLT.
В	(2)	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 120 VOLT.
С	8	CIRCUIT BREAKERS, 1-POLE, 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 30 AMP, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP, AT 240 V.
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER [TIME SWITCHED]
Н	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER NEUTRAL BUS ¹ /4" X 1" X 12" LONG MOUNTED On Panel With Lugs and 4 spare lugs
L	2 .	SPDT TOGGLE SWITCHES MOUNTED IN 4" X 4" BOX.
М	1	COPPER GROUND BUS1/4" X 1" X 12" LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
N	1	THE SURGE PROTECTION MUST BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICROSECONDS RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND MUST BE UL LISTED PER UL 1449, CUTLERHAMMER CMOV230L065XST OR APPROVED EQUAL.

NOTES:

SCALE:

- 1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.
- 2. FOUNDATION SIZE MUST BE COORDINATED WITH CABINET SIZE AND MFR.
- 3. IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" TOP SOIL. LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" × 60" × 4" MIN. SIZE. THE COST OF LABOR AND MATERIALSARE INCLUDED IN THE COST OF THE CONTROLLER.
- 4. DOOR WILL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- 5. DOOR WILL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP AND THE BOTTOM.
- 6. DOOR HINGE WILL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A'/4" DIA. STAINLESS STEEL HINGE PIN.
- 7. ALL EXTERNAL HARDWARE WILL BE STAINLESS STEEL.
- 8. CONTROL WIRING TO BE *12 AWG, 600V. TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- 9. METER BOX WILL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE. (NOT REQUIRED ON UNMETERED SERVICES OR AS REQUIRED BY THE ELECTRIC UTILITY).

- 10. CABINETS WILL BE PRIMED AND PAINTED AS SPECIFIED.
- 11. THE HEADS OF CONNECTORS SCREWS WILL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- 13. ALL WIRING WITHIN THE CABINET MUST BE
 COLOR CODED AS INDICATED.
 R = RED BL = BLUE W = WHITE
 B = BLACK Y = YELLOW G = GREEN
- 14. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- 15. ALL WIRING WILL BE NEATLY DRESSED AND SUPPORTED.
- 16. THE CONTROLLER MUST BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 17. 12" x 16" STAINLESS STEEL EXTERIOR NAMEPLATE WILL BE ENGRAVED TO "KANE COUNTY LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
- 18. CIRCUITS A AND C SHALL RUN CONTINUOUSLY. CIRCUITS B AND D SHALL TURN OFF DURING THE NON-OPERATING HOURS OF THE FORREST PRESERVE.