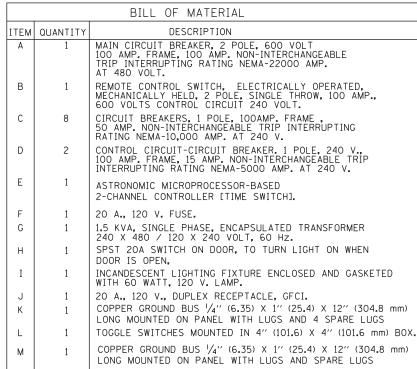
## PANEL EQUIPMENT BILL OF MATERIAL



## NOTES:

SCALE: NONE

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- 2. FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- 3. IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE 12. ALL WIRING WITHIN THE CABINET SHALL BE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (18.288 m) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- 4. DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- 5. DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- 6. DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
- 7. ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- 8. CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- 9. METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.

- 10. CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- 11. THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- COLOR CODED AS INDICATED. R = RED BL = BLUE Y = YELLOWB = BLACK
- 13. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- 14. ALL WIRING SHALL BE NEATLY DRESSED AND
- 15. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 16. 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

30" (762) MIN.  NAME PLATE  SEE NOTE 16	SCREENED AIR VENT (483) MIN.
NEMA 3R - NETER AND BASE	3 POINT LOCKING HANDLE WITH PAD LOCK PROVISION
CABINET ALUMINUM ALLOY SHEET O.125" (3.175) TYPE 5052-H32	CONCRETE WORK PAD SEE NOTE 3
1" (25) DIA. 2 PVC CONDUIT	60" (1.52 m)
GROUND ROD———————————————————————————————————	21" MIN. (533.4)

CIRCUIT BREAKER

(D)

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J

(M)

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1/4" (6.35) MINIMUM

NON-ASBESTOS INORGANIC

NONCONDUCTING MATERIAL

-CABINET ENCLOSURE

3-1/C SERVICE ENTRANCE

CABLE FROM ELECTRIC

UTILITY METER BOX

240/480 VOLT. 10.3

WIRES. 60 CYCLES.

- GROUNDING CONDUCTOR #2 AWG.

- MAIN BREAKER

(C)

ABCDEFG

(POWER)

(D)

AUXILIARY -

CONTROL RELAY

(IF NECESSARY)

(K)

BONDING JUMPER -

GROUND ROD 5/8" (15.875)

DIA. x 10' (3.048 m) LONG

PANEL WIRING DIAGRAM

#6 AWG. 600V

TWO POSITION TOGGLE SWITCH

TOGGLE SWITCH MOMENTARY

240V AC AND TOGGLE SWITCH 20A, 240V, TYPE SPDT

FILE NAME = W:\diststd\22x34\be215.dar

DESIGNED 08-20-04 REVISED USER NAME = gaglianobt DRAWN REVISED CHECKED REVISED DATE PLOT DATE = 1/4/2008 REVISED

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** 

									E-21
LIGHTING CONTROLLER SINGLE DOOR			F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
				(0405-1 & 0506-2) R-1	COOK	577	437		
			BE-215 CONTR		CONTRACT	CT NO. 60M57			
	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. ROAD DIST, NO. 1 ILLINOIS FED. AID PROJECT				