

GENERAL NOTES (CONTINUED FROM DWG E-02)

16. COMPLETE ELECTRICAL INSTALLATION SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED TO GROUND RODS AND STRUCTURAL STEEL IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND AASHTO CODE REQUIREMENTS. WHETHER OR NOT SUCH CONNECTIONS ARE SPECIFICALLY IDENTIFIED, MEASURED RESISTANCE TO GROUND TO BE 5 OHMS MAXIMUM.
17. ALL 600V POWER AND CONTROL CABLE SHALL BE TYPES RHH, RHW, XHHW-2 OR USE. THE CABLE SHALL RATED AT A MINIMUM OF 90°C DRY AND 75°C WET AND SHALL BE SUITABLE FOR INSTALLATION IN WET AND DRY LOCATIONS, AND SHALL BE RESISTANT TO OILS AND CHEMICALS, SHALL CONSIST OF STRANDED COPPER CONDUCTORS INSULATED WITH CHEMICALLY CROSS-LINKED POLYETHYLENE, XLPE.
18. THE POWER AND CONTROL SUBMARINE CABLE INSULATION SHALL BE 600V RATED, SHALL CONSIST OF STRANDED COPPER CONDUCTORS INSULATED WITH CROSS-LINKED POLYETHYLENE, XLPE (90°C), CABLED WITH FILLERS AS NECESSARY, BINDER TAPE, POLYETHYLENE INNER JACKET, POLYETHYLENE COATED SPIRAL-WOUND GALVANIZED STEEL ARMOR WIRES, SEPARATOR TAPE, AND A POLYETHYLENE OUTER JACKET, AND SHALL BE RATED FOR LONG-TERM UNDERWATER INSTALLATIONS AND SUITABLE FOR USE IN WET OR DRY LOCATIONS WHICH MAY BE EXPOSED TO DIRECT SUNLIGHT. SUBMARINE CABLES SHALL BE MANUFACTURED BY DRAKA CABLETEQ, USA OR APPROVED EQUAL.
19. THE CONTRACTOR SHALL PERFORM FULL CONTINUITY, INSULATION AND GROUNDING INTEGRITY TESTS UPON COMPLETION OF THE ELECTRICAL INSTALLATIONS. THE CONTRACTOR SHALL PERFORM FULL ACCEPTANCE TESTS OF ALL BRIDGE ELECTRICAL SYSTEMS INCLUDING LIFT SPAN DRIVES AND MOTORS, TRAFFIC DEVICES AND AUXILIARY EQUIPMENT, AS DESCRIBED UNDER SPECIAL PROVISIONS.
20. BACKGROUNDS FOR BRIDGE'S ROADWAY AND VARIOUS ROOMS ARE BASED ON CONTRACT - WEST CONGRESS STREET BRIDGE OVER SOUTH BRANCH - CHICAGO RIVER. THE CONTRACTOR SHALL FIELD VERIFY THE ACTUAL INSTALLATION.

PB Americas, Inc.
 230 WEST MONROE STREET,
 SUITE 900
 CHICAGO, IL. 60606

USER NAME = sharma
 FILE NAME = 0160d61-shr-elc-03.dgn
 PLOT SCALE = NONE
 PLOT DATE = 5/7/2009

DESIGNED - A. CENTENO
 DRAWN - S. SHARMA
 CHECKED - M. INTATANO
 DATE - MAY 8, 2009

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL ELECTRICAL NOTES
 SHEET 2**

SCALE: AS SHOWN SHEET NO. E-03 OF E-125 SHEETS STA. 379+06.09 TO STA. 382+45.28

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	274
CONTRACT NO. 60D61				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				