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D	<div><div>ELECTRICAL</div><div>SECTION 262416 - PANELBOARDS</div><div><div>1.1 QUALITY ASSURANCE</div><div>A. MANUFACTURER QUALIFICATIONS: ISO 9001 OR 9002 CERTIFIED.</div></div><div><div>1.2 PRODUCTS</div><div>A. GENERAL REQUIREMENTS FOR PANELBOARDS:<div><div>1. CONSTRUCTED TO WITHSTAND SEISMIC FORCES.</div><div>2. ENCLOSURES: FLUSH MOUNTED.<div><div>a. FRONT: HINGED COVER WITH KEY LOCK.</div><div>b. OPTIONAL ENCLOSURE FEATURES: SKIRT FOR SURFACE-MOUNTED PANELBOARDS.</div><div>c. DIRECTORY CARD.</div></div></div><div>3. INCOMING MAINS: CONVERTIBLE BETWEEN TOP AND BOTTOM.</div><div>4. PHASE, NEUTRAL, AND GROUND BUSES: TIN-PLATED ALUMINUM.</div><div>5. CONDUCTOR CONNECTORS:<div><div>a. MATERIAL: TIN-PLATED ALUMINUM.</div><div>b. MAIN AND NEUTRAL LUGS: MECHANICAL TYPE.</div><div>c. FEED-THROUGH LUGS: MECHANICAL TYPE.</div></div></div><div>6. PERCENTAGE OF FUTURE SPACE CAPACITY: FIVE PERCENT.</div><div>7. SERVICE EQUIPMENT LABEL FOR PANELBOARDS INCORPORATING ONE OR MORE MAIN SERVICE DISCONNECTING AND OVERCURRENT PROTECTIVE DEVICES.</div></div><div>B. PANELBOARD OR LOAD CENTER SHORT-CIRCUIT CURRENT RATING: FULLY RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AVAILABLE AT TERMINALS. LISTED SERIES RATED SYSTEM MAY BE USED IF APPROVED BY EOR TO LIMIT FAULT TO BELOW 22K AIC FOR GFI BREAKERS.<div><div>1. MAINS: LUGS ONLY.</div><div>2. BRANCH OVERCURRENT PROTECTIVE DEVICES FOR CIRCUIT-BREAKER FRAME SIZES LARGER THAN 125 A: BOLT-ON CIRCUIT BREAKERS.</div></div></div><div>C. LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS:<div><div>1. MAINS: LUGS ONLY.</div><div>2. BRANCH OVERCURRENT PROTECTIVE DEVICES: PLUG-IN CIRCUIT-BREAKER TYPE.</div><div>3. DOORS: CONCEALED HINGE.</div></div></div><div>D. LOAD CENTERS:<div><div>1. MAINS: LUGS ONLY.</div><div>2. BRANCH CIRCUIT BREAKERS: PLUG-IN.</div><div>3. DOORS: CONCEALED HINGE.</div><div>4. CONDUCTOR CONNECTORS: MECHANICAL TYPE.</div></div></div><div>E. DISCONNECTING AND OVERCURRENT PROTECTIVE DEVICES:<div><div>1. CIRCUIT BREAKERS: THERMAL-MAGNETIC TYPES.</div><div>2. GFI CIRCUIT BREAKERS: RATED FOR PERSONNEL.</div><div>3. AFCI CIRCUIT BREAKERS: AS REQUIRED BY CODE.</div><div>4. OPTIONS AND TYPES AS NEEDED.</div></div></div><div>F. IDENTIFICATION:<div><div>1. PANELBOARD LABELS: MANUFACTURER'S NAME AND TRADEMARK, VOLTAGE, AMPERAGE, NUMBER OF PHASES, ARC FLASH HAZARD, AND NUMBER OF POLES SHALL BE LOCATED ON THE INTERIOR OF THE PANELBOARD DOOR.</div><div>2. BREAKER LABELS: FACEPLATE SHALL LIST CURRENT RATING, UL AND IEC CERTIFICATION STANDARDS, AND AIC RATING.</div><div>3. CIRCUIT DIRECTORY: DIRECTORY CARD INSIDE PANELBOARD DOOR, MOUNTED IN TRANSPARENT CARD HOLDER.</div></div></div><div>G. ACCESSORIES:<div><div>1. ACCESSORY SET INCLUDING TOOLS.</div><div>2. PORTABLE TEST SET: FOR TESTING FUNCTIONS OF SOLID-STATE TRIP DEVICES WITHOUT REMOVING FROM PANELBOARD.</div></div></div></div></div><div><div>1.3 FIELD QUALITY CONTROL</div><div>A. TESTING: BY CONTRACTOR.</div></div><div>END OF SECTION 262416</div></div>	<div><div>ELECTRICAL</div><div>SECTION 262816 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS</div><div><div>1.1 PRODUCTS</div><div>A. FUSIBLE SWITCHES:<div><div>1. GENERAL DUTY, SINGLE THROW, [240-V] [600V] AC, 800 A AND SMALLER: UL 98 AND NEMA KS 1, TYPE GD.</div><div>2. ACCESSORIES:<div><div>a. EQUIPMENT GROUND KIT.</div><div>b. NEUTRAL KIT.</div><div>c. ISOLATED GROUND KIT.</div><div>d. CLASS R FUSE KIT.</div><div>e. AUXILIARY CONTACT KIT.</div><div>f. HOOKSTICK HANDLE.</div><div>g. LUGS: MECHANICAL.</div><div>h. SERVICE-RATED SWITCHES.</div><div>i. ACCESSORY CONTROL POWER.</div></div></div></div><div>B. NONFUSIBLE SWITCHES:<div><div>1. GENERAL DUTY, SINGLE THROW, [240-V] [600V] AC, 600 A AND SMALLER: UL 98 AND NEMA KS 1, TYPE GD.</div><div>2. ACCESSORIES:<div><div>a. EQUIPMENT GROUND KIT.</div><div>b. NEUTRAL KIT.</div><div>c. ISOLATED GROUND KIT.</div><div>d. AUXILIARY CONTACT KIT.</div><div>e. HOOKSTICK HANDLE.</div><div>f. LUGS: MECHANICAL.</div><div>g. ACCESSORY CONTROL POWER.</div></div></div></div><div>C. MOLDED-CASE CIRCUIT BREAKERS:<div><div>1. THERMAL-MAGNETIC TYPE.</div><div>2. ADJUSTABLE INSTANTANEOUS-TRIP TYPE.</div><div>3. ELECTRONIC-TRIP TYPE.</div><div>4. CURRENT-LIMITING TYPE.</div><div>5. INTEGRALLY FUSED TYPE.</div><div>6. GFCI TYPE.</div><div>7. GFEP TYPE.</div><div>8. FEATURES AND ACCESSORIES:<div><div>a. LUGS: MECHANICAL.</div><div>b. TYPE SWD FOR SWITCHING FLUORESCENT LIGHTING LOADS.</div><div>c. TYPE HID FOR FEEDING FLUORESCENT AND HIGH-INTENSITY DISCHARGE LIGHTING CIRCUITS.</div><div>d. GROUND-FAULT PROTECTION: INTEGRALLY MOUNTED, SELF-POWERED TYPE.</div><div>e. SHUNT TRIP.</div><div>f. UNDERVOLTAGE TRIP: 35 TO 75 PERCENT OF RATED VOLTAGE WITHOUT INTENTIONAL TIME DELAY.</div><div>g. AUXILIARY CONTACTS: TWO SPDT SWITCHES.</div><div>h. ALARM SWITCH: ONE NO CONTACT.</div><div>i. KEY INTERLOCK KIT.</div><div>j. ZONE-SELECTIVE INTERLOCKING: INTEGRAL WITH ELECTRONIC TRIP.</div><div>k. ELECTRICAL OPERATOR.</div><div>l. ACCESSORY CONTROL POWER.</div></div></div></div><div>D. MOLDED-CASE SWITCHES:<div><div>1. MCCB WITH FIXED, HIGH-SET INSTANTANEOUS TRIP ONLY, AND SHORT-CIRCUIT WITHSTAND RATING EQUAL TO EQUIVALENT BREAKER FRAME SIZE INTERRUPTING RATING.</div><div>2. FEATURES AND ACCESSORIES:<div><div>a. LUGS: MECHANICAL.</div><div>b. GROUND-FAULT PROTECTION: REMOTE-MOUNTED AND POWERED TYPE.</div><div>c. SHUNT TRIP.</div><div>d. UNDERVOLTAGE TRIP: 35 TO 75 PERCENT OF RATED VOLTAGE WITHOUT INTENTIONAL TIME DELAY.</div><div>e. AUXILIARY CONTACTS: TWO SPDT SWITCHES.</div><div>f. ALARM SWITCH: ONE NO CONTACT.</div><div>g. KEY INTERLOCK KIT.</div><div>h. ZONE-SELECTIVE INTERLOCKING: INTEGRAL WITH REMOTE GROUND-FAULT TRIP UNIT.</div><div>i. ELECTRICAL OPERATOR.</div><div>j. ACCESSORY CONTROL POWER.</div></div></div></div></div><div>E. ENCLOSURES:<div><div>1. INDOOR, DRY AND CLEAN LOCATIONS: NEMA 250, TYPE 1.</div><div>2. OUTDOOR LOCATIONS: NEMA 250, TYPE 3R.</div></div></div></div></div><div><div>1.2 FIELD QUALITY CONTROL</div><div>A. TESTING: BY CONTRACTOR.</div></div><div><div>1.3 ADJUSTING</div><div>A. SET FIELD-ADJUSTABLE CIRCUIT-BREAKER TRIP RANGES.</div></div><div>END OF SECTION 262816</div></div></div></div>			
C					
B	<div><div>ELECTRICAL</div><div>SECTION 262713 - ELECTRICITY METERING</div><div><div>1.1 EQUIPMENT FOR ELECTRICITY METERING BY UTILITY COMPANY</div><div>A. UTILITY-COMPANY-COMPLIANT CURRENT-TRANSFORMER CABINETS: COMPLY WITH REQUIREMENTS OF ELECTRICAL-POWER UTILITY COMPANY.</div><div>B. METER SOCKETS: COMPLY WITH REQUIREMENTS OF ELECTRICAL-POWER UTILITY COMPANY.</div></div><div>END OF SECTION 262713</div></div>				
A	<div><div>ELECTRICAL</div><div>SECTION 262726 - WIRING DEVICES</div><div><div>1.1 PRODUCTS</div><div>A. RECEPTACLES: DUPLEX, 125 V, 20 A.<div><div>1. STRAIGHT BLADE: CONVENIENCE AND ISOLATED GROUND.</div><div>2. GFCI: FEED THROUGH.</div><div>3. TWIST-LOCKING TYPE WITH ISOLATED-GROUND TERMINAL.</div></div></div><div>B. PENDANT CORD-CONNECTOR DEVICES WITH EXTERNAL CABLE GRIP.</div><div>C. CORD AND PLUG SETS: MATCH VOLTAGE AND CURRENT RATINGS AND NUMBER OF CONDUCTORS TO REQUIREMENTS OF EQUIPMENT BEING CONNECTED.</div><div>D. TOGGLE SWITCHES: 120/277 V, 20 A.<div><div>1. PILOT-LIGHT SWITCHES.</div><div>2. KEY-OPERATED SWITCHES.</div></div></div><div>E. WALL-BOX DIMMERS:<div><div>1. MODULAR, FULL-WAVE, SOLID-STATE UNITS WITH SLIDER CONTROL.<div><div>a. INCANDESCENT: SOFT TAP OR OTHER QUIET SWITCH; EMURFI FILTER TO ELIMINATE INTERFERENCE.</div><div>b. FLUORESCENT: TRIM POTENTIOMETER FOR LOW-END DIMMING.</div><div>c. LED: COMPATIBLE WITH LED DRIVER OR LAMP.</div></div></div></div><div>F. WALL PLATES:<div><div>1. MATERIAL FOR BAR: THERMOPLASTIC WITH COLOR PER STARBUCKS.</div><div>3. MATERIAL FOR CUSTOMER AREAS: THERMOPLASTIC WITH COLOR OPTION PER STARBUCKS.</div></div></div><div>G. FINISHES:<div><div>1. CONNECTED TO NORMAL POWER SYSTEM: CONFIRM COLOR WITH STARBUCKS REPRESENTATIVE.</div><div>2. CONNECTED TO EMERGENCY POWER SYSTEM: RED.</div><div>3. ISOLATED-GROUND RECEPTACLES: AS SPECIFIED ABOVE, WITH ORANGE TRIANGLE ON FACE.</div></div></div></div></div><div>END OF SECTION 262726</div></div>				

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PROJECT MANAGER

DESIGNER

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