PART 1 - GENERAL

1.1 SUMMARY

A. Includes But Not Limited To:
   1. Furnish and install circuit-breaker panelboards as described in Contract Documents.

B. Related Sections:
   1. Section 26 0501: Common Electrical Requirements.

PART 2 - PRODUCTS

2.1 EQUIPMENT

A. General:
   1. Circuit-breaker type.
   2. Galvanized steel cabinets
   3. Bussing and lugs arranged as required.
   4. Multi-pole circuit-breakers shall be common trip.
   5. Circuit-breakers shall be molded case thermal magnetic type with inverse time characteristics.

B. Main Panelboard:
   1. Minimum integrated equipment short circuit rating of 22,000 amperes for 120 / 208 Volts.
   4. Enclosures:
      a. NEMA / CEMA Type 3R with locking door.
      b. NEMA / CEMA Type 1.
   5. Minimum dimensions of 32 inches 800 mm wide by 8 inches 200 mm deep.
   6. Rated for use as service entrance equipment.
   7. Space designation on Drawings indicates bus hardware and panelboard capacity for future acceptance of one 100 Amp, three-pole circuit-breaker.
   8. Category Four Approved Products. See Section 01 6000 for definitions of Categories.
      a. Type PRL4B by Cutler-Hammer.
      c. Type P5 by Siemens.
      d. I-Line by Square D.

C. Lighting And Appliance Panelboards:
   1. Minimum integrated equipment short circuit rating of 10,000 amperes for 120 / 208 Volts.
   2. Minimum integrated equipment short circuit rating of 14,000 amperes for 277 / 480 Volts.
   3. Plug-on or bolt-on breakers. Multi-pole breakers shall be common trip.
   4. Cabinets shall be locking type with no exposed latches or screws when door is closed. Key panels alike and provide minimum of three keys.
   5. Minimum dimensions of 20 inches 500 mm wide by 5-3/4 inches 144 mm deep.
   6. Space designation on Drawings indicates bus hardware and panelboard capacity for future acceptance of one 20 Amp, single-pole circuit-breaker.
   7. Breakers specified to be shunt trip and shall include shunt trip accessories to remotely trip breaker using separate 120 V power source. Trip coil shall include coil-clearing contact to break coil current when breaker opens.
   8. Use equipment from same manufacturer as main panelboard.
9. Category Four Approved Products. See Section 01 6000 for definitions of Categories.
   a. Type PRL1a by Cutler-Hammer.
   b. Type AL or AQ by General Electric.
   c. Type P1 by Siemens.
   d. Type NQOD by Square D.

D. Load Centers:
   1. 125 Amp main lugs, 120 / 208 Volt, three-phase.
   2. Minimum integrated equipment short circuit rating of 10,000 Amps.
   3. Surface-mounted, outdoor NEMA Type 3R enclosure with padlocking provisions. 12-1/2 inches 318 mm wide by 4-1/2 inches 115 mm deep minimum.
   4. HACR type circuit breakers.
   5. Use equipment from same manufacturer as main panelboard.
   6. Category Four Approved Products. See Section 01 6000 for definitions of Categories.
      a. Type CH by Cutler-Hammer.
      b. Type PowerMark Plus by General Electric.
      c. Type EQ by Siemens.
      d. Type QO by Square D.

2.2 MANUFACTURERS

A. Contact Information:

PART 3 - EXECUTION

3.1 INSTALLATION

A. Label panelboards, load centers, and each breaker in main panelboard with 1/16 inch 1.5 mm thick laminated plastic composition material with contrasting color core. Engraved letters shall be 1/4 inch 6 mm high.

B. Provide typewritten circuit schedules in lighting and distribution panelboards and load centers to identify panelboard and load served by each branch breaker.

C. Arrange conductors neatly within panelboards and load centers.

D. Secure to structure in accordance with applicable seismic zone requirements.

3.2 PROTECTION

A. Protect panelboards, load centers, and interior components from paint, gypsum board compound, dirt, dust, and other foreign matter during construction.

END OF SECTION