

PIKES PEAK REGIONAL BUILDING DEPARTMENT

Commercial Plan Check Electrical Requirements

Include the following items when on new or modified drawings for compliance with the 2005 National Electrical Code (NEC).

- 1. ENGINEER STAMPED ELECTRICAL SHEETS
- 2. INTERNATIONAL ENERGY CONSERVATION CODE CALCULATIONS (use COMcheck-EZ).
- 3. ONE LINE SERVICE, including existing services, *include the following:*
 - Wire size for service and sub panel feeders
 - Conduit size
 - Meters, disconnects and panels
 - Calculated load of service for the entire building (Article 220, 2005 NEC)
 - Fault current calculations for all new service equipment and sub panels
 - Series rating information (including plaques) when used
- 4. PANEL SCHEDULE *include the following:*
 - Disconnect and panel size (amps, main, feeder and circuit numbers)
 - Volt amps on all branch circuits and calculated load of panel
 - Panelboard AIC rating
 - Bus duct load calculations
- 5. FLOOR PLANS *include the following:*
 - Location of all service equipment
 - Location of all equipment, lights and panelboards
 - Circuit numbers on all electrical equipment
 - Circuit numbers on all receptacle and light outlets
 - Dual level switching/occupancy sensors in rooms with more than one (1) light fixture
 - Commercial garages compliance with Article 511, 2005 NEC
 - Patient care areas compliance with Article 517.13, 2005 NEC, including switches
 - Commercial kitchens compliance with Article 210.8(B)(2), 2005 NEC
- 6. ADDITIONAL ITEMS
 - Kitchen equipment schedule with load data
 - Lighting fixture schedule including fixture and lamp wattage, type of fixture and light details
 - Track lighting compliance with Section 805.5.1.4 Line-voltage lighting track & plug-in busway, 2003 IECC
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