



TOC Planning & Community Development Building Department

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REQUIREMENTS FOR COMMERCIAL ELECTRICAL DRAWINGS NEW BUILDINGS

- 1) Electrical Service Diagram (one line) **NEC Article 230**
 - a.) Size in amperage and AIC ratings
 - b.) Voltage
 - c.) All conductor sizes
 - d.) Transformers
- 2) Grounding Diagram (one line) **NEC Article 250**
 - a.) Grounding electrode conductor sizes
 - b.) Connections to water line, steel of building, concrete encased, and ground rods
 - c.) Transformers

New and Existing Structures (All of the following that apply)

- 1) Panel schedules and panel locations **NEC Article 408**
- 2) Feeders, branch circuiting and load calculations **NEC Article 210 & 220**
- 3) Wiring method (may include special wiring for health care facilities, assembly, hazardous locations, plenums) **NEC Article 300**
- 4) Handicap heights (commercial, Type A & B dwellings) **ICC/ANSI A117.1**
- 5) Emergency power requirements (exit signs, emergency lighting, and power sources)
NEC Article 700
- 6) Energy requirements (switching and wattage; interior and exterior) **IECC Section 505**

If you have any questions or concerns regarding these requirements, please contact the Chief Building Official.