



Planning & Building Agency
Permits & Plan Check Section
 20 Civic Center Plaza
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INFORMATION REQUIRED FOR ELECTRICAL PLAN CHECK SUBMITTAL

ELC-01 CEC2019

Applicable Building Standards:

2019 California Electrical Code (CEC)	2019 California Energy Code (Title 24, Part 6)
2019 California Building Code (CBC)	2019 California Green Code (Title 24, Part 11)
Santa Ana Municipal Code (SAMC)	2019 California Mechanical Code (CMC)
NFPA - referenced National Fire Codes	2019 California Fire Code (CFC)

- A. Formal Plan Review is required for **commercial** or **industrial** permits exceeding \$250.00 (not including any Low Voltage System and Issuance fees). **NOTE: ALL CANNABIS PROJECTS & NEW STRUCTURES WILL REQUIRE PLAN CHECK** – including residential and relocated structures. **Photovoltaic and Electric Vehicle Supply Equipment are specialty systems and will require a plan review.**
- B. Exterior lot and egress lighting permits need electrical plan review **after** Santa Ana Police Department (SAPD) approval. Parking structures require SAPD & Electrical plan check approval.
- C. Submit a completed permit application and the appropriate plan check fee. The plan check fee is 65% of the total permit fee (without including any Low Voltage or Permit Issuance charges).
- D. **Minimum Size** drawing is 18 X 24 inches. Two sets of drawings with **applicable** items listed below:
 - 1. **Address of Installation** (include suite number).
 - A. Note type of Tenant Activity (office, retail, manufacturing, medical, etc.).
 - B. Note any special conditions (unlisted equipment, hazardous or corrosive environments, etc.)
 - 2. **Single Line Diagram showing –**
 - A. Service. Provide the Southern California Edison Co. available fault current (AIC) calculations.
 - B. Sub-Panels and major loads. Show let-thru AIC when utility AIC exceeds 10,000 amps.
 - C. Breaker and Fuse sizes. Note size and types for each.
 - D. Conduit and Feeders. Note size and types for each.
 - E. Grounding conductors and physical protection. Show both items for service and for separately-derived systems (transformers, generators). Note size, destination, and types for each.
 - F. Note new, relocated or re-fed apparatus as **NEW**; note existing and unmodified as **EXISTING**.
 - G. Show service and subpanel load calculations.
 - 3. **Branch Circuit Diagram showing –**
 - A. Circuiting for lighting and general use receptacle outlets.
 - B. Conduit and wire to other circuits, equipment, motors, future apparatus, etc. Note conductor size & conduit or cable types.
 - 4. **Panel Schedules showing –**
 - A. Description and wattage of circuit loads. Identify all long-connected (LCL) loads.
 - B. Number of lights, receptacles, misc. on each circuit.
 - C. Total wattage and calculated load on the panel and feeders.
 - D. A typical single and three phase schedule is available at the permit counter.
 - 5. **Title 24 Energy Certificates of Compliance** – include as applicable the ELC-E, LTI-E, LTO-E, LTS-E certificates and associated forms with all required signatures. For Energy Commission-approved energy code compliance software applications, visit: http://www.energy.ca.gov/title24/2019standards/2019_computer_prog_list.html, or call the Energy Standards Hotline at 1-800-772-3300. **For buildings larger than 50,000 square feet, a third party approving agent must also review and sign the certificates.**
 - 6. **Fire detection and alarm systems** will need to be submitted separately to OCFA.