



# ELECTRICAL PLAN SUBMITTAL REQUIREMENTS



City of Redding  
777 Cypress Avenue  
Redding CA 96001  
Telephone:  
(530) 225-4013

**For questions regarding these requirements, call Mike Adams at (530) 225-4358.**

## ELECTRIC PLANS

- Provide complete electric floor plan showing outlet locations, noting CFCI outlets where required and waterproof covers at outdoor locations.
- Show lighting fixture locations and switching layout.
- Show all distribution panel locations.
- Show all mechanical equipment locations and disconnects. Show all fixed electrical equipment and disconnects. Show conduit size and conductors to all equipment. Show fuse/breaker sizes of all AC equipment.

## SINGLE LINE DRAWING

- Show service size and voltage, note single or three phase.
- Note main switch size and note if it is fuses or circuit breaker.
- Note all subfeeder breakers or fuses. Note conduit size and type, conductor size, type, and type of insulation to be used (use derating factors for conduit fill and ambient temperature).
- Note location of conduits (underground, through attic, outside, on roof, etc.).
- Note all transformers size, type, location, and method of grounding separately derived system as per Section 250.26 of the 2007 California Electrical Code (CEC).
- Note method of grounding and size. Note all bonds necessary and size.
- Verify AIC available to main service. Provide method of protecting electric service from ground fault.
  - If using drop calculations, remember that UL does not allow fuse let-through to be used in calculating point-to-point load.
  - If using a series-rated system, provide copy of UL approved combinations of breakers-to-breakers or fuse-to-breakers being used in series. Otherwise, note that system is to be fully rated, meaning that all breakers shall have a rating greater than what is available.
- Provide complete CEC load calculations based on Article 220 of the CEC.
- Provide complete panel schedules showing connected load, circuit size, total load of each phase, and total load on panel.
- For remodels or additions, show existing loads, plus new loads, on calculations and schedules.
- All commercial electric plans shall be signed and stamped by a licensed architect, engineer, or electrical contractor (in the case of a design and build). High-rise buildings, medical buildings, industrial buildings, and services over 800 amperes will require plans stamped by an electrical engineer.