



CITY OF CORONADO

DEPARTMENT OF COMMUNITY DEVELOPMENT
BUILDING DIVISION
1825 STRAND WAY, CORONADO, CA 92118
(619) 522-7331 / (619) 522-2418 (FAX)
COMMDEV@CORONADO.CA.US

HANDOUT

309

SEPT 2014

RESIDENTIAL ELECTRICAL PANEL (SERVICE OR SUBPANEL)

PERMIT INFORMATION

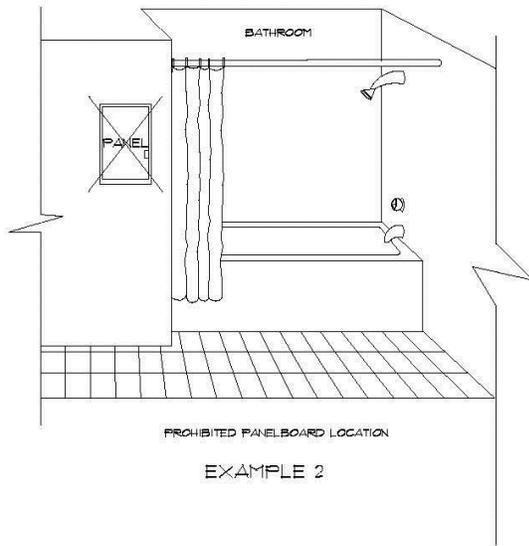
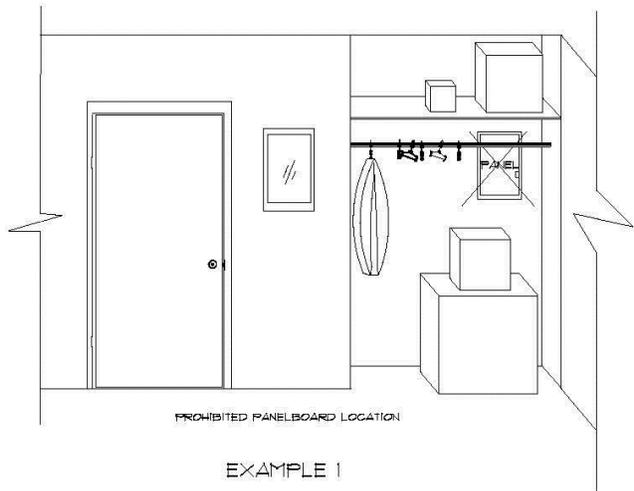
1. The installation of a new electrical panel or modifications to an existing panel requires an electrical permit.
2. The new electrical panel must be installed in the same general location as the current electrical panel, otherwise plans must be submitted and approved.
3. A Building Permit may be issued only to a State of California Licensed Contractor or the Homeowner.
4. If the work is performed by the Homeowner personally or by his/her workers, and an inspection indicates the work cannot be completed satisfactorily, then a licensed contractor must perform the work.
5. A completed Circuit card will be required at Electrical Rough and collected at Electrical Final.
6. A SDG&E work order is required for all new service panels and service panel upgrades.

INSTALLATION REQUIREMENTS

1. **Building Codes:** All work must comply with the 2013 California Building Code (CBC), 2013 California Residential Code (CRC), 2013 California Electrical Code (CEC), and 2013 California Energy Code based upon 2012 Building Energy Efficiency Standards (CEnc).
2. Equipment must be installed in accordance with its listing and the manufacturer installation instructions [CEC 110.3(B)].
3. If a new panel is being installed and the service is less than 100 amps, the service panel must be upgraded to a minimum 100 amps [CEC 230.79(C)].
4. Disconnecting means and overcurrent protection shall be installed in accordance with CEC Article 230.70 and Article 240.24.
5. The service disconnecting means shall be installed at a readily accessible location (as defined in CEC Article 100) either inside or outside of a building or structure or inside nearest the point of entrance of the service conductors [CEC 230.70(A)(1)].
6. Panels shall not be installed in bathrooms [CEC 230.70(A)(2) and 240.24(E)].
7. Panels must be protected from physical damage (garages) [CEC 240.24(C)].
8. Panels are not to be installed in vicinity of easily ignitable material, such as inside clothes closets [CEC 240.24(D)].
9. There shall be a minimum 30" wide x 36" deep clear working space in front of the panel [CEC 110.26].
10. New circuit breakers must be listed and approved for installation in the panel [CEC 110.3(B)].
11. Each circuit in the panel must be identified with a circuit directory that is located on the face or inside of the panel door [CEC 408.4(A)].
12. In conformance with CEC Section 210.12(B), listed arc-fault circuit interrupters, combination type, shall be installed for all 120 volt, single phase, 15 and 20 amp branch circuits supplying outlets installed in family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas when:
 - A. Any electrical service panel containing branch circuits supplying any of the above areas is being replaced.
 - B. Any electrical subpanel containing branch circuits supplying any of the above areas is being replaced.
 - C. Any alteration or extension is made to the branch circuits that supply any of the above areas.
13. Metal water piping system(s) shall be bonded to the service equipment or grounding electrode conductor or where supplied by a feeder or branch circuit to the building or structure disconnecting means or grounding electrode conductor. The Bonding jumper shall be sized in accordance with table 250.66 [CEC 250.104 (A)(1)] Installed in accordance with CEC 250.64 (A) (B) and (E).
14. Metal gas piping shall be bonded to the service equipment enclosure; grounding conductor at the service; the grounding electrode conductor if of sufficient size, or to one or more grounding electrodes used. The bonding conductors or jumpers shall be sized in accordance with 250.122. The point of attachment shall be accessible [CEC 250.104 (B)].
15. Grounding shall be installed per an approved method specified in 250.52 and be sized per table 250.66. If a single rod, pipe, or plate grounding electrode has a resistance to earth of 25 ohms or less, the supplemental electrode shall not be required.

QUESTIONS

If you have any questions regarding your project, please contact the Building Division at (619) 522-7331.



LOCATION OF ENCLOSURES & OVERCURRENT DEVICES

(a) Readily Accessible (See Example 1)

1. Service equipment shall be installed at a readily accessible location outside of the building.

2. Overcurrent devices (breakers) shall be readily accessible (either inside or outside) and shall be installed such that the center of the grip of the handle of the switch / breaker is not more than 6'7" above the floor or working platform.

(b) Occupant To Have Ready Access

Each occupant shall have ready access to all overcurrent devices protecting the conductors supplying that occupancy.

Exception : Multiple-occupancy building if electrical maintenance provided by management under continuous management supervision.

(c) Not Be Exposed To Physical Damage Refer to CEC 240.24C

(d) Not Installed In Vicinity Of Easily Ignitable Material example: Clothes closets CEC 240.24D

(e) Distribution Panels In Bathrooms Refer to CEC 240.24E