

Residential Electrical Service Panel



**BUILDING & SAFETY DIVISION
201 E. LA HABRA BLVD.
LA HABRA, CA 90631
562-905-9710**

**Call Before You Dig
1-800-227-2600**



**CITY OF LA HABRA
BUILDING DIVISION
INSTALLATION REQUIREMENTS
MAIN ELECTRIC SERVICE UPGRADES**

All installations of service changeouts/upgrades shall conform to the 2010 CEC

In order to properly install a service panel, the installer will need to be familiar with the following tables in the California Electrical Code:

1. Table 310.15(B)(6)- Conductor Types and Sizes For 120/240 volt, 3-wire, Single Phase Dwelling Services and Feeders.
2. Table 250.66- Grounding Electrode Conductor for Alternating- Current Systems.
3. Annex C Table C.8- Maximum Number of Conductors or Fixture Wires in Rigid Metal Conduit (RMC).

An installer will also need to be familiar with all other sections of the Code which are applicable including:

1. Methods of Grounding and Bonding Conductor Connection to Electrodes- CEC 250.70
2. Installation of a ground rod at the panel and subpanel (if located at a detached garage) if some other means for grounding the system does not exist- CEC 250.24(A)(1) - (A)(5). **Note: The ground rod must be driven eight feet into the ground.**
3. Bonding to the water piping and gas piping at accessible locations- CEC 250.104(A)(B)
4. Protection of the grounding electrode conductor if smaller than 6AWG by means of rigid metal conduit, intermediate metal conduit, rigid nonmetallic conduit, electrical metallic tubing, or cable armor- CEC 250.64(B)
5. Continuity of metal enclosures for grounding electrode conductors- CEC 250.64 (E)
6. Installation of the grounding electrode conductor without a splice or joint- CEC 250.64 (C)(1)(2)
7. The vertical clearance above the roof level shall be maintained for a distance of not less than 3 feet in all directions from the edge of the roof- CEC 230.24(A)

NEW ELECTRICAL PANEL?

Before installing or upgrading a residential or commercial meter panel, please call
SOUTHER CALIFORNIA EDISON
to approve the panel location

(800) 655-4555 Residential
(800) 990-7788 Commercial



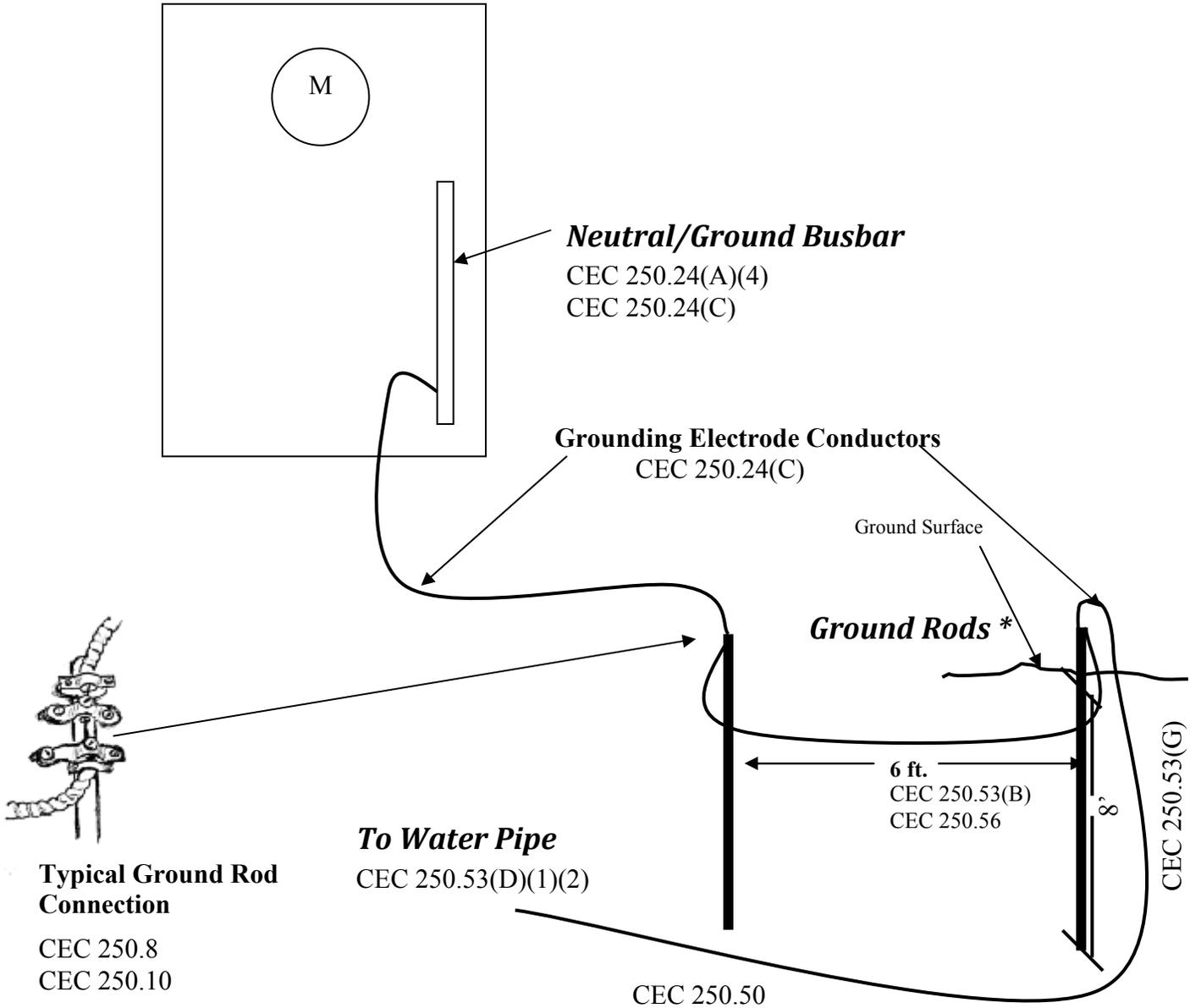
¿CAJA NUEVA DE ELECTRICIDAD?

Antes de instalar o aumentar su servicio eléctrico, ya sea para un edificio residencial o comercial, por favor llame a la compañía de electricidad
SOUTHER CALIFORNIA EDISON
para que aprueben el lugar donde se instalara la caja eléctrica.

(800) 441-2233 Residencial
(800) 990-7788 Comercial

TYPICAL SERVICE METER INSTALLATION

Service Meter



Note: Bonding to gas piping is required. A bond jumper installed at the water heater from the cold water to the gas pipe is acceptable.
CEC 250.104(A), (B)
CEC 250.68(B)

*** Only one ground may be used if the electrician can prove resistance of 25 ohms or less**
CEC 250.56