



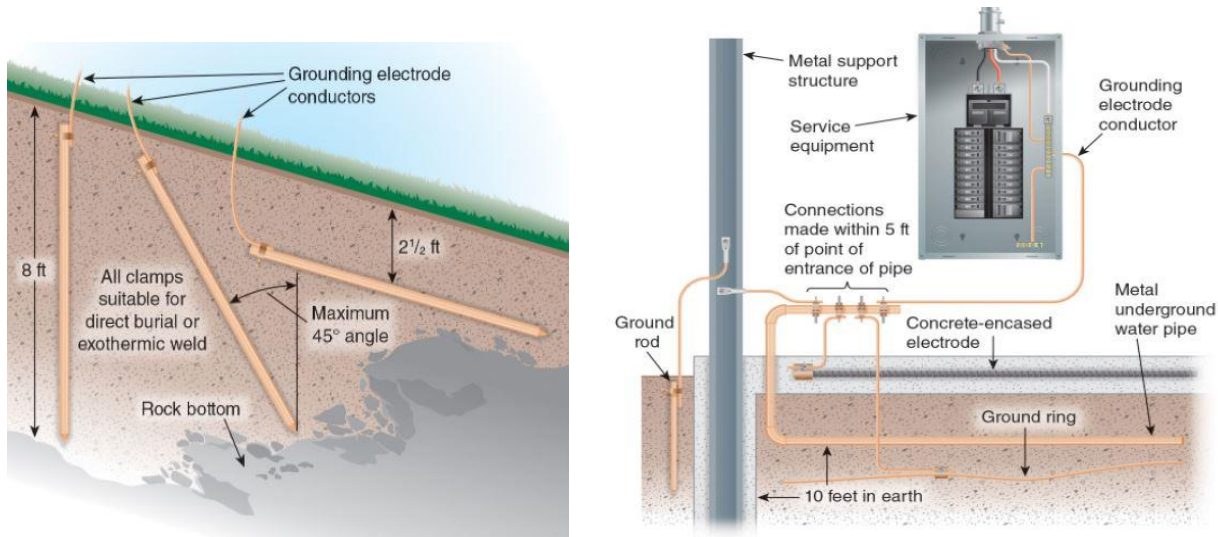
Due to the increase of cut ground rods, The Building Official and Senior Building inspector have created an installation guide to help with Supplemental Electrode Grounding requirements. Please contact the Senior Building Inspector, Doug Yale, at 619-258-4100 ext. 155 for any questions. Thank you.

Grounding methods.

It is unacceptable to alter, cut, or bend a ground rod without the prior approval of the jurisdiction and manufacture. Below are the minimum requirements to supplemental grounding that will be verified by the City of Santee field Inspector.

All grounding installation shall comply with the following grounding methods and requirements: PV system grounding configuration shall be in accordance to CEC 690.41 and grounding electrode system shall be in accordance to CEC 690.47. Electric service panels shall be grounded with a grounding electrode(s) that complies with CEC Article 250. If the existing main service panel does not have verifiable grounding electrode, it shall be the contractor's responsibility to install a supplemental grounding electrode.

It is acceptable to install one or more driven ground rods so that no more than 3 inches projects above ground level. Connection of the grounding electrode conductor shall be made on this accessible portion of the rod. **The portion of the rod with the listing mark and a ground rod clamp listed for this purpose shall be inspected by the authority having jurisdiction (AHJ).** Ground rods should be installed in areas where they are not subject to physical damage or shall be provided with protection from such damage. **Short / cut ground rod will be issued a re-inspection fee.**



CEC 250.53 (2) Supplemental Electrode Required

A single rod, pipe, or plate electrode shall be supplemented by an additional electrode of a type specified in 250.52(a)(2) through (A)(8). The supplemental electrode shall be permitted to be bonded to one of the following:

- 1 - Rod, pipe, or plate electrode.
- 2 - Grounding electrode Conductor.
- 3 - Grounding service-entrance conductor.
- 4 - Nonflexible grounded service raceway.
- 5 - Any grounded service enclosure.

Exception: If single rod, pipe, or plate grounding electrode has a resistance to earth of 25 ohms or less, the supplemental electrode shall not be required.

CEC 250.53 (3) Supplemental Electrode

If multiple rod, pipe, or plate electrodes are installed to meet the requirements of this section, they shall not be less than 1.8 m (6 ft) apart.

CEC 250.53 (4) Rod and Pipe Electrodes

The electrode shall be installed such that at least 2.44 m (8 ft) of length is in contact with the soil. It shall be driven to a depth of not less than 2.44 m (8 ft) except that, where rock bottom is encountered, the electrode shall be driven at an oblique angle not to exceed 45 degrees from the vertical or, where rock bottom is encountered at an angle up to 45 degrees, the electrode shall be permitted to be buried in a trench that is at least 750 mm (30 in.) deep. The upper end of the electrode shall be flush with or below ground level unless the aboveground end and the conductor attachment are protected against physical damage as specified in 250.10.

Did you know you can now look up your inspection list? The inspection list will be updated each day by 9am. The inspection list is located in the City of Santee Building Department website or by using the link below.

<https://www.cityofsanteeca.gov/government/planning-and-building/building-permits-inspections>

