

Footer & Foundation Inspection Report by the foundation Engineer of Record

Residential footer and foundation inspections may be performed by Regional Building Department or the foundation engineer of record. When obtaining the permit, inform RBD if the engineer of record will perform the on-site inspections. The engineer provides a stamped and signed Footer & Foundation Inspection Report that is specific to the address and assesses the requirements listed below to ensure code compliance. The Footer & Foundation Inspection Report and Soils Letter, both stamped and signed by the appropriate professional engineer, must be provided to the inspector at the peripheral drain inspection (BFD). (Note: RBD has found work in progress without permit. Those who violate the permit requirement may lose the option of having the footer and foundation inspections performed by the engineer of record.)

INSPECTION REQUIREMENTS

Part of both the footer and foundation inspections is verification that the Eufer grounding system complies with the provisions of the 2005 National Electric Code, Article 250.50, (see attached drawing). The Eufer grounding inspections must be stated in the Footer & Foundation Inspections of the report. The listed components of the inspections include:

INSPECTION COMPONENTS — Refer to the code sections cited below for specific requirements.

FOOTER INSPECTION

- Date of on-site inspection
- Address posted & Permit posted (RBC109.8; 312.9 - 12)
- Compaction test result if overdig (RBC303.4.38)
- Engineering soils letter on site (RBC303.4.39)
- Engineer stamped foundation design on site (RBC303.4.38)
- Frost Protection (R403.1.4)
- Footing & Structural Pads (R403.1)
- Eufer grounding (NEC 250.50)
- Water removed before concrete is poured
- Placement of steel
- Reinforcing steel is clean
- Voids (if required)
- Concrete protection in cold conditions

FOUNDATION INSPECTION

- Date of on-site inspection
- Address & Permit posted
- Compaction test result if overdig
- Engineering soils letter on site (RBC106.5)
- Engineer stamped foundation design on site (RBC106.5)
- Ground frost free (Soils Report)
- Not more than 2 sill plates (RBC303.4.44)
- Cripple walls (R602.9; RBC 302.4.63)
- Eufer grounding (NEC 250.50)
- Water removed before concrete poured
- Spacing of reinforcing steel (RBC303.4.38)
- Reinforcing steel is clean
- Placement of voids (if applicable)
- Concrete protection in cold conditions

EUFER GROUNDING

The 2005 National Electrical Code, adopted by the state of Colorado, effective July 1, 2005, now requires Eufer grounding methods in the foundations of residential and commercial buildings. Exterior grounding rods are no longer acceptable. Refer to Section 250.50, 2005 NEC, for more information. Grounding will be checked at the building footer (BFT) and foundation (BFN) inspections. These examples of Eufer grounding installations per the type of foundation are not intended to alter or replace code requirements.

