

OVERHEAD SERVICE, 480 VOLT MAX

ELECTRIC SERVICE REQUIREMENT STANDARD
 EUGENE WATER & ELECTRIC BOARD - EUGENE, OREGON

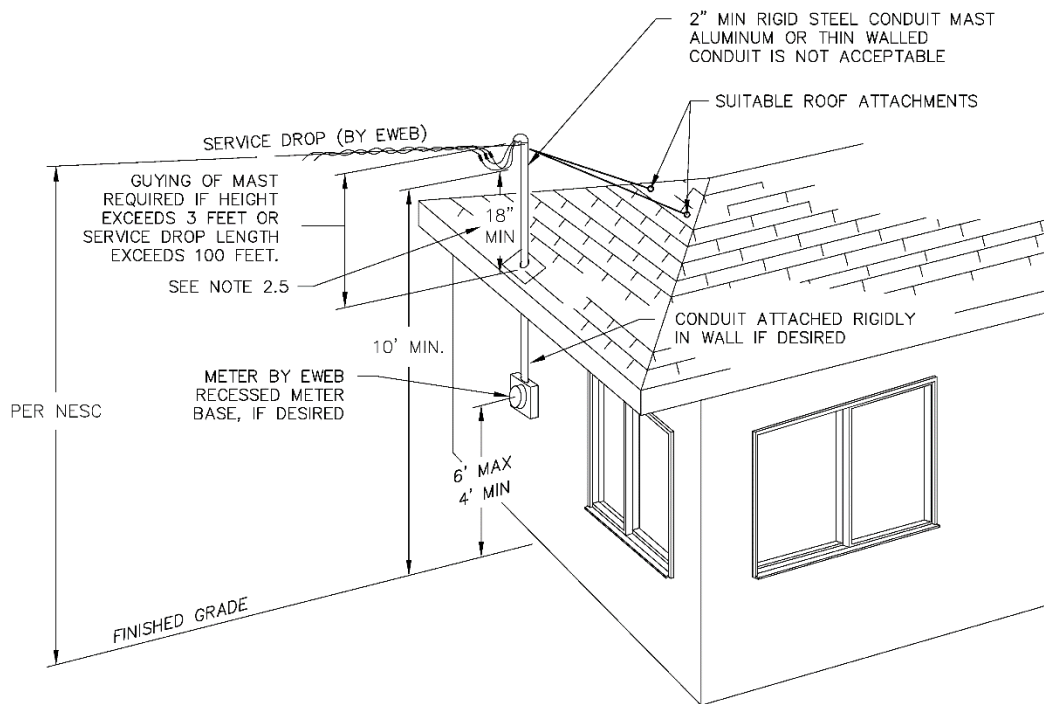
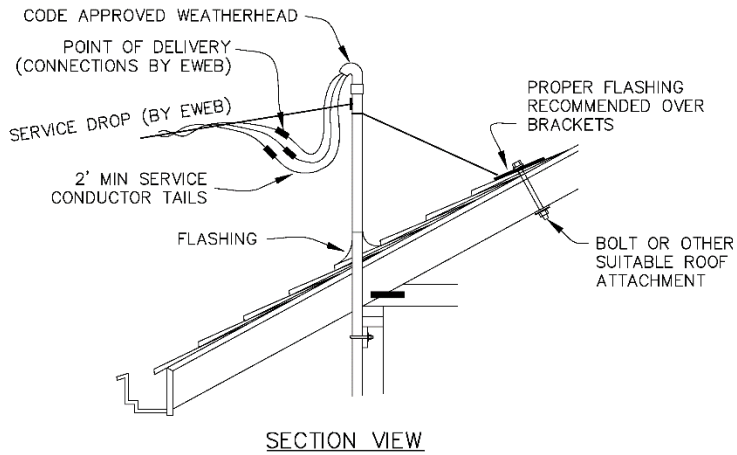
OVERHEAD SERVICE REQUIREMENTS

Approved July 07, 2020

EC5-B.1500

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OVERHEAD SERVICE MAST THROUGH ROOF,
240 VOLT MAX

ELECTRIC SERVICE REQUIREMENT STANDARD
EUGENE WATER & ELECTRIC BOARD - EUGENE, OREGON

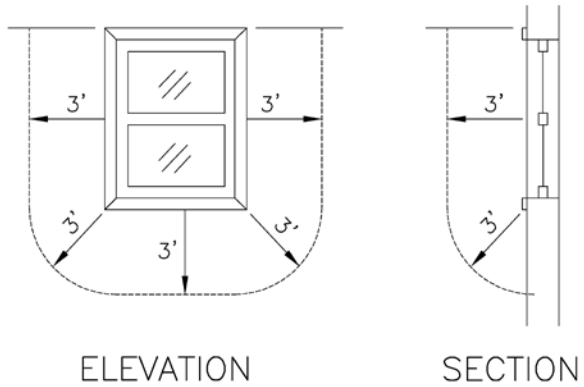
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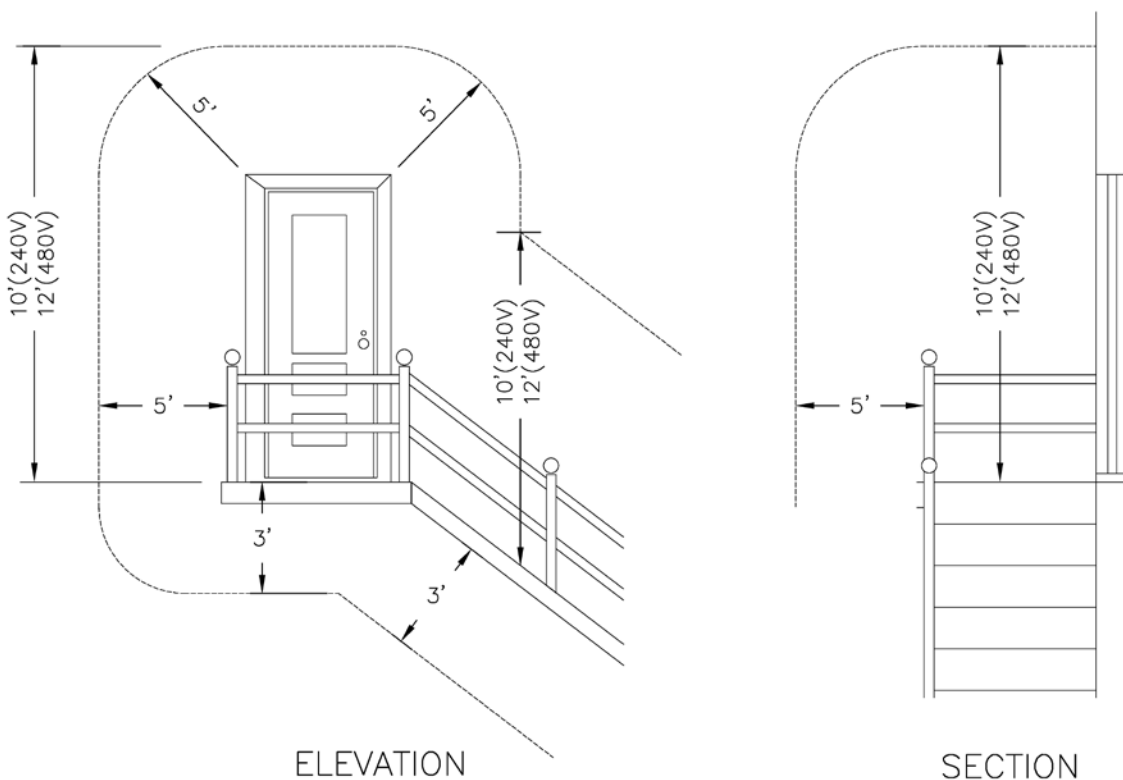
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ELEVATION

SECTION

WINDOWS DESIGNED TO OPEN



ELEVATION

SECTION

DOOR EXIT AND STAIRS

MINIMUM CLEARANCE OF SERVICE DROP CONDUCTORS,
TO WINDOWS, DOORS, ETC, 480-VOLT MAX

1.0 SCOPE

- 1.1. This standard contains the requirements for overhead single and three phase services up to and including 480 volts.
- 1.2. For single phase services greater than 320 amps, or three phase services great than 200 amps, continuous, current transformers (CT's) are required. Contact EWEB Electric Distribution Engineering for CT enclosure requirements.
- 1.3. Any deviations from any of these requirements must be approved by EWEB Electric Distribution Engineering prior to installation.

2.0 SERVICE REQUIREMENTS

- 2.1. For additional electric service requirements see EWEB's Customer Services Policies and Procedures, Electric Utility at <http://www.eweb.org/about-us/policies-and-procedures>.
- 2.2. All service equipment shall comply with the National Electrical Code (NEC) and applicable EWEB construction standards.
- 2.3. Customer shall supply, install, own, and maintain everything shown except equipment shown by EWEB.
- 2.4. Larger clearances than those shown may be required in some cases. Refer to the National Electrical Safety Code (NESC) and NEC for required clearances, grounding, and service equipment requirements.
- 2.5. For overhead services of 240 volt maximum, with the service mast through the roof, the clearance of the drip loop to the roof shown is only allowed within a 6'-0" radius from the service mast and within 4'-0" from the edge of the roof. Outside of this area the service conductors including drip loop must be 3'-0" minimum above the roof. For services above 240 volts, the service conductors, including drip loop must be 8'-0" minimum above the roof.
- 2.6. Meter base
 - 2.6.1. Meter base location shall be approved by EWEB prior to installation.
 - 2.6.2. Provide working space clear of obstructions in front of the meter from finished grade to a height of 6.5 feet, a depth of 3 feet, and 30 inches wide.
 - 2.6.3. Meter must be accessible at all times and provided with an unrestricted path from the road to the meter.
 - 2.6.3.1. If meter is located behind a gate, the gate must remain unlocked or provided with an EWEB lock which EWEB will provide.
 - 2.6.3.2. Meter shall not be obstructed by future building additions or alterations.
 - 2.6.4. For a 320 amp continuous single phase service, provide a meter base with safety socket manual bypass and line lugs rated for 90 degrees C, Eaton model 324N or equal.
- 2.7. Point of Attachment
 - 2.7.1. Point of attachment and weatherhead location for the service drop conductors shall be approved by EWEB prior to installation.

2.7.2. The strength of the structure at the point of attachment and attachment device shall be sufficient to support the mechanical load of the service drop conductors with ¼ inch of ice at 15 degrees F and 4 lbs./ft², (40 mph) wind. Providing this structural strength is the responsibility of the customer. EWEB will provide the mechanical loading requirements of the service attachment when requested by the customer.

2.7.3. The portion of the service mast above the roof shall be a continuous piece of conduit without any conduit couplings.

2.8. Service Drop Location

2.8.1. The path between the service pole and the point of attachment shall be clear of structures and other obstructions and shall not cross adjacent properties without an easement.

2.8.2. EWEB will not install service conductors through or under porches or carports, nor around chimneys or building corners. The clearances around the service conductors shall be as shown and as required by the NESC and NEC.

3.0 SERVICE INSTALLATION PROCESS

3.1. Contact EWEB:

3.1.1. For additional information see <http://www.eweb.org/contractors-and-developers/building-and-renovations/new-or-temporary-service>.

3.1.2. Electric Distribution Engineering at 541-685-7521 for design questions.

3.1.3. Electric Operations at 541-685-7457 to schedule disconnection of service, if applicable, or energization of service.

3.2. Install service conduit mast, point of service attachment, and meter base per this standard and as directed by EWEB.

3.3. After the service has passed inspection by the local authority, the contractor shall contact EWEB Operations to schedule energizing service.

4.0 QUALIFICATIONS

4.1. Oregon state licensed electricians shall install service conductors in riser conduit and terminate conductors in meter base. Oregon State law allows home owner certain rights to work on their own property.

4.2. Contractors are responsible for wearing proper personal protective equipment (PPE) to meet OSHA and NEC requirements.

5.0 REFERENCE STANDARDS

- A Refer to EC5-B.3000 for Temporary Service Requirements.
- B Refer to EC5-B.1000 for Underground Service Conduit and Conductor Requirements.
- C Refer to EC2-8.1200 for Minimum Vertical Clearance of Conductors and Equipment Above Ground, Roadway or Water Surfaces.