

## SECTION 624—RIGHT-OF-WAY FENCE

**624.1 DESCRIPTION**—This work is construction of right-of-way fence of the type indicated.

### 624.2 MATERIAL—

(a) **Right-of-Way Fence.** [Section 1110](#)

(b) **Packaged Dry Concrete.** [ASTM C 387](#), normal strength concrete; Type IA, IIA, or IIIA cement; 28-day compressive strength of 21 MPa (3,000 pounds per square inch).

(c) **Other Material.**

- Class A Cement Concrete—[Section 704](#)
- Mortar—[Section 1001.2\(e\)](#)
- Ground Rod—Acceptable 25 mm x 3 m (1-inch by 10-foot) copper clad rod with suitable clamps
- Ground Wire—21.15 mm<sup>2</sup> (No. 4 AWG) solid copper

(d) **Certification.** [Section 106.03\(b\)3](#)

**624.3 CONSTRUCTION**—As shown on the [Standard Drawings](#) and as follows:

(a) **General.** Clear and grub to construct the right-of-way fence and to provide a reasonably smooth ground profile at the fence line, unless otherwise directed. Cut, trim, and remove vegetation, as specified in [Section 810](#), as required for right-of-way fence installation.

Excavate or construct compacted embankment a maximum depth of 150 mm (6 inches) and a minimum width of 450 mm (18 inches), with 1:2 (2:1) side slopes, unless otherwise directed to obtain the desired elevations. Fill minor ground depressions that are not water courses.

Restore areas disturbed by grading operations as specified in [Section 105.14](#).

Join new and existing right-of-way fence as indicated or directed.

Complete the fence true to line, plumb, taut, rigid, and erected in conformance with established practices for the type specified.

(b) **Posts.** Orient posts with sections that have a major and a minor bending axis, with the major axis parallel to the fence line. Place corner posts with the major axis parallel to one of the lines of the fence.

Drive line posts, except when concrete footings are required. Obtain acceptance for the method of driving and of protecting the post. Remove and replace posts with battered heads, bent, or otherwise damaged posts as directed.

Furnish and place longer line posts where indicated to suit field conditions.

If rock is encountered, drill a hole with a diameter that is 15 mm (1/2 inch) larger than the post's maximum dimension, at least 300 mm (12 inches) into the rock, and then grout the post in place with mortar.

(c) **Anchorage.** Construct concrete footings or install acceptable drive anchors. Construct concrete footings, using Class A Concrete or packaged dry concrete. Concrete footings do not require forming. Finish the footing tops to drain water away from the posts. Do not place the fabric until the concrete has cured for a minimum of 72 hours.

(d) **Fabric.** Firmly fasten wire fabric to the posts using aluminum or galvanized bands or clamps, or by other acceptable methods.

Splice fabric using an acceptable method that develops the full fabric strength.

Place fabric on the side of the fence toward the highway unless otherwise indicated or directed. At corner posts and on curves, place the fabric so it pulls against the post.

If supplied with both knuckled and barbed selvages, install fabric with the barbed selvege on the fence top edge.

(e) **Gates.** Install gates where indicated or directed.

(f) **Electrical Grounds.** Install an electrical ground directly under areas where electrical transmission, distribution, or secondary lines cross over the right-of-way fence. Drive a 3 m (10-foot) copper clad rod, a minimum of 25 mm (1 inch) in diameter, vertically until the top is approximately 150 mm (6 inches) below the ground elevation. Bronze clamp a 21.15 mm<sup>2</sup> (No. 4 AWG) solid-copper conductor to the rod and to the fence so each fence element is grounded.

#### 624.4 MEASUREMENT AND PAYMENT—

(a) **Right-of-Way Fence.** Meter (Linear Foot)

(b) **End Post, Corner Post, and Pull Post.** Each

(c) **Gate.** Each

(d) **Class 2 Excavation.** Cubic Meter (Cubic Yard)

Excavation and embankment within the specified depth of 150 mm (6 inches) is incidental to this work. If the Representative directs additional excavation and/or embankment beyond the 150 mm (6-inch) depth indicated, the Department will pay for additional quantities as Class 2 Excavation.