

## **SECTION 9.06 WIRE FENCE**

**9.06.01--Description:** This item shall consist of wire fencing supported by wood or metal posts erected as shown on the plans or as ordered and in accordance with these specifications.

**9.06.02--Materials:** Materials for this work shall conform to the requirements of Article M.10.04 for wire fencing, wood post and metal post.

Where chain link fabric is used for wire fence, it shall conform to the requirements of Article M.10.05 except the Chain Link Fabric may be 11 gauge. Aluminized fabric shall be coated with aluminum alloy applied at the rate of 0.1 kg/m<sup>2</sup> of uncoated wire surface. Tension wire and wire ties shall conform to the requirements of Article M.10.05. Posts shall conform to the requirements of Article M.10.04 or M.10.05 and the plans.

**9.06.03--Construction Methods:** For wire fence with wood posts, the posts shall be set plumb, butt end down, spaced 3 m apart on centers, set 1 m in the ground and to lines and grades given. The wire fencing shall normally be placed on the side of the posts facing the highway. It shall be attached to the wood posts by means of No. 9 galvanized wire staples 38 mm long. The bottom wire shall be 150 mm above the ground level unless otherwise ordered. The fencing shall be stretched taut and fastened to the posts at each horizontal wire. A sufficient number of braces shall be added to the posts to hold them firmly when the wire fencing is pulled tight. Untreated posts shall be cut off at the top a uniform distance of 75 mm above the top wire of the fence on a bevel as directed by the Engineer.

When exposed ledge rock is encountered, the fence shall be attached to metal posts which shall be set in holes drilled into the rock at least 300 mm in depth and grouted or otherwise firmly held in correct position.

For wire fence with metal posts, all line posts set in earth shall be set plumb with anchor plate down, spaced 3 m apart on centers, set 1 m in the ground and to lines and grades given. On metal line posts set in rock, the anchor plate shall be omitted; and the posts set in holes drilled into the rock at least 300 mm in depth and grouted in correct position. In driving steel line posts into place, the top of the post shall be protected by a driving cap, or a suitable maul shall be used.

All end, corner and pull posts shall be set in concrete footings. The footings shall be constructed of CLASS "A" Concrete, which may be hand-mixed, and shall have a depth of not less than 1 m and a horizontal area of not less than 200 mm by 200 mm at the top and 250 mm by 250 mm at the bottom.

Braces shall be fastened to the post approximately 450 mm from the top of the post and shall be of sufficient length and so set in the ground that they form an angle in the vertical plane of not less than 45 degrees with the post. The lower end of braces shall be set in a concrete base having a volume of not less than 0.03 m<sup>3</sup>. Metal brace plates having a face area of not less than 0.1 m<sup>2</sup> and a thickness of not less than 5.0 mm may be substituted for the concrete base on braces, provided performance equal to that of the concrete base can be demonstrated by the Contractor in tests conducted at the Contractor's expense.

The Engineer will direct on which side of the post the wire fencing is to be placed. It shall be stretched taut and securely fastened to the posts by standard approved means such as aluminum bands, zinc-coated steel bands or clips made of No. 11-gage rust-resisting spring wire at each horizontal wire. Braced pull posts shall be installed as needed. Unless otherwise ordered, the bottom wire shall be 150 mm above the ground.

At his option the Contractor may substitute chain link fabric with tension wire in conformance with these specifications or Section 9.13. When wire fencing conforming to M.10.04 is not available or "Alternate Wire Fence" is indicated on the plans, the Contractor shall install the fence with chain link fabric.

**9.06.04--Method of Measurement:** This work will be measured for payment by the number of meters of completed and accepted wire fence measured from outside to outside of end posts.

**9.06.05--Basis of Payment:** This work will be paid for as follows:

**1--Wire Fence with Wood Posts:** This work will be paid for at the contract unit price per meter for "Wire Fence with Wood Posts," complete in place, which price shall include all materials, equipment, tools, labor and work incidental thereto, also all excavation, refilling and disposal of surplus material.

No additional compensation will be made for furnishing metal fence posts where required or for the drilling and grouting necessary to place them.

**2--Wire Fence with Metal Posts:** This work will be paid for at the contract unit price per meter for "Wire Fence with Metal Posts," complete in place, which price shall include all materials, equipment, tools, labor and work incidental thereto, also all excavation, refilling and disposal of surplus material.

No additional payment will be made for wire fence installed with chain link fabric.

Pay Item	Pay Unit
Wire Fence with Wood Posts	m
Wire Fence with Metal Posts	m