

ITEM 05615.75 M - TIMBER BOLLARDS (FIXED)
ITEM 05615.76 M - TIMBER BOLLARDS (MOVABLE)

Description:

Under this item, the Contractor shall furnish and install timber bollards in accordance with the plans, specifications, and as ordered by the Engineer.

Materials: Fixed and Movable Bollards

Timber for bollards shall be of the size shown on the plans and in accordance with section 712-13. Surface dried redwood, red cedar, white cedar, or cypress may be used untreated. Other lumber shall be pressure treated in accordance with section 708-31, Wood Preservative-Water Borne. Creosote and oil-borne preservative treatments will not be permitted.

When a color other than the color of the wood is specified, it shall be obtained by the application of an approved stain, to the satisfaction of the Engineer.

When Acrylic Plastic Reflectors are specified on the plans or in the proposal, they be the color specified and shall conform to material specification 730-10. Screw fasteners shall be as shown on plans.

Movable Bollards

The movable bollards shall be placed in an outer sleeve, as shown on the plans, made of cast steel meeting the requirements of ASTM A27M, Grade 415 - 205. Fabrication welding shall comply with the requirements set forth under "Welding" in the New York State Steel Construction Manual. Material for this work shall meet the requirements of the New York State Steel Construction Manual.

Construction Details: Fixed and Movable Bollards

The metal sleeves for the movable bollards shall be galvanized in accordance with sub-section 719-01, Galvanized Coatings and Repair Methods, Type I.

The metal sleeves and timber bollards shall be erected ,as shown on the plans or as directed by the Engineer, true to line and grade. If, when the bollards are installed, the adjacent pavement has been completed, extreme care shall be taken that this area is not disturbed in any manner.

Method of Measurement:

The quantity of timber bollards to be paid for under this item will be the number erected in accordance with the plans or as directed by the Engineer.

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Basis of Payment:

The unit price bid per each shall include the cost of excavation and backfill and furnishing all labor, materials, and equipment necessary to complete the work.

DISAPPROVED
BY EI 12-001