

## ITEM 02615.9999 M - WOOD BOLLARD (MOVABLE)

### DESCRIPTION:

Under this work the Contractor shall provide and place bollards at locations indicated on the Contract Plans or as directed by the Engineer.

### MATERIALS:

Materials for this work shall meet the requirements of the New York State Steel Construction Manual (NYSSCM) and the following subsections of §304 - Subbase Course and §700 - Materials:

Subbase Course	304-2.02 A (Type 4)
Dull Orange Primer	708-03
Brown Paint	708-16
Bar Reinforcement, Grade 420	709-01
Wood and Timber Posts and Timber Blockouts	710-13
Box Beam Guide Railing and Median Barrier (including sleeve fittings)	710-21

The outer sleeve shall be hot-formed welded and seamless carbon steel structural tube or cold-formed welded and seamless structural tubing. The tubing shall conform to ASTM A500 cold-formed welded and seamless carbon steel structural tubing in rounds and shapes, Grade A or B ASTM 501 hot-formed welded and seamless carbon steel structural tubing. No mill transverse welds will be permitted on the tubing outer sleeve.

Fittings on the main post and outer sleeve shall conform to the details shown.

Each movable bollard shall be supplied with a water proof lock approved by the Engineer and triplicate keys.

The wood post shall meet all requirements of §710-13.

### CONSTRUCTION DETAILS:

All outside surfaces of the outer sleeve shall be shop painted with one coat of dull orange primer 708-03 on the outside faces as delineated on the Plan, and shall, in addition, be field painted with one coat of brown paint 708-16 as the first field coat, and with one coat of brown paint 708-16 as the finish coat, following the method prescribed in §740 - Painting Procedures. The Contractor shall follow the limits of painting as shown on the Plans.

The Contractor shall deposit subbase material at the bollard in horizontal layers not exceeding 150 mm in thickness prior to compaction. When placing fill or backfill around the outer sleeve, the layers shall be deposited to progressively bury the outer sleeve to equal depth on all sides until the grade is met as shown on the Plans. The Contractor shall set the bollards as soon as the Engineer directs them to be placed. Thereafter, the Contractor shall be responsible for their maintenance until the final acceptance of the Contract, keeping them in their proper location and condition at all times.

### METHOD OF MEASUREMENT:

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The number of bollards to be paid for under this work shall be the number erected in accordance with the Plans or as directed by the Engineer.

**BASIS OF PAYMENT:**

The unit price bid per each bollard shall include the cost for furnishing all labor, materials, and equipment necessary to satisfactorily complete the work.

DISAPPROVED  
BY EI 12-001