

615 Rustic Timber Items and Historical Markers

615.1 Description

- (1) This section describes providing timber rail guard fence, timber curbs, timber guard posts, rustic marker posts, and historical markers for rest areas or waysides.

615.2 Materials

615.2.1 General

- (1) Furnish materials conforming to the following:

Lumber and timber.....	507
Paint	517
Wood preservatives	507.2.3
Structural steel.....	506.2
Miscellaneous metals	506.2
Reinforcement	505
- (2) Furnish grade A concrete conforming to [501](#) as modified in [716](#). Provide QMP for class III ancillary concrete as specified in [716](#).
- (3) Furnish wood components pressure treated conforming to [507.2.2.6](#) and as follows:
 - Timber posts, curbs, and curb shims conforming to [614.2.5](#).
 - Round posts conforming to [616.2.2.6](#).
 - Sawed rails from one of the species listed in [614.2.5](#).

615.2.2 Bolts, Nuts, and Hardware

- (1) Unless specified otherwise, furnish bolts, nuts, washers and other hardware galvanized as specified in [614.2](#). The contractor may furnish plain hardware for timber guard fence and treated timber curbs.

615.3 Construction

615.3.1 General

- (1) Dig post holes at the required location and depth, and compact the bottom of the holes to provide a stable foundation. The engineer will allow a tolerance of +/- 3 inches in depth, provided the post length is adequate to obtain the required elevation of the finished top. Set the posts plumb and with the front faces in a straight line or to conform to curves the plans show or as the engineer directs. Backfill the placed posts with engineer-approved material, placed in layers, and compacted in a way that avoids disturbing the position or alignment of the post.
- (2) After setting posts, determine the finished elevation of post tops and cut off and trim as the plans show. Treat the cut surfaces of treated posts with 2 brush applications of the same type of preservative used in the original treatment. Bore holes in the set posts to support the rails at the required elevation and grade. Bolt the rails to the posts, unless specified otherwise, with round-headed bolts, with heads facing the rail. Burr the threaded ends of bolts. If the bolt extends one inch or more through the nut, cut off at 1/2 inch from the nut before burring.
- (3) Place timber curbs true to line and grade, with the supporting shims placed on a solid foundation. Drill, countersink, and bevel timber curbs after pressure treatment. Apply 2 brush applications of the preservative used for the curbs to the resulting exposed surfaces. Secure the curbs in place by driving steel pins to firm seating in holes countersunk in the curbs.
- (4) Under the Wisconsin Historical Marker bid items, construct a reinforced concrete base, if required, wood post, concrete or stone supports, and hang the designated department-furnished sign.

615.3.2 Staining

- (1) Stain untreated wood, rails and posts, including untreated portions of butt treated posts, with 2 coats of brown wood stain conforming to [517.2.9](#). Allow at least 48 hours to elapse between coats.

615.4 Measurement

- (1) The department will measure Guard Fence Timber Rail by the linear foot acceptably completed, measured from end to end of the rail.
- (2) The department will measure Curbs Treated Timber, Guard Posts Timber, and Marker Posts Rustic as each individual unit acceptably completed.
- (3) The department will measure the Wisconsin Historical Marker bid items as each marker acceptably completed.

615.5 Payment

- (1) The department will pay for measured quantities at the contract unit price under the following bid items:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
615.0100	Guard Fence Timber Rail	LF
615.0200	Curbs Treated Timber	EACH
615.0300	Guard Posts Timber	EACH
615.0400	Marker Posts Rustic	EACH
615.1000	Wisconsin Historical Marker	EACH

- (2) Payment for Guard Fence Timber Rail is full compensation for providing materials, including posts, rails, bolts, paint, and preservative; for excavating, erecting, and backfilling; and for preservative treating and staining.
- (3) Payment for Curbs Treated Timber, Guard Posts Timber, or Marker Posts Rustic is full compensation for materials, including posts, curbs, shims, treatment, staining, and pins; and for excavating and backfilling.
- (4) Payment for the Wisconsin Historical Marker bid items is full compensation for providing materials, including posts, stones, reinforcement and concrete, paint, and bolts; for excavating, erecting, and backfilling; and for preservative treating, and staining.