

## **54.11 REMOVE, SUPPLY AND INSTALL WOODEN SIGN POSTS**

### **54.11.1 GENERAL**

The Work consists of removing existing sign posts and supplying and installing wooden sign posts for permanent highway signs with sign surface areas of up to 3 square metres.

### **54.11.2 MATERIALS**

The Contractor shall supply all materials necessary to complete the Work.

Posts shall be pine or spruce structural framing no. 2 or better, as per NLGA 1980 Rules Par. 123 C, allowing 15% standard grade dressing 4 sides. Posts are to be CCA (Copper, Chromate, Arsenate) pressure treated in accordance with CSA 080.14 and CSA 081.1. Material supplied shall be free from wane. Shipments shall be delivered dry piled and shall be protected from road and weather conditions to ensure material is clean upon delivery.

Post sizes to be supplied shall be 100 mm x 100 mm, 100 mm x 150 mm and 150 mm x 200 mm dimension lumber, in lengths ranging from 365 cm to 610 cm.

### **54.11.3 EQUIPMENT**

The Contractor shall supply all equipment necessary to complete the Work.

### **54.11.4 PROCEDURE**

Traffic control and signing shall be conducted in accordance with Specification 55.1, Traffic Accommodation and Temporary Signing.

The Engineer will mark the general location of the new installation with paint or other marks on the shoulder of the road or with a stake near the shoulder. The Contractor shall properly establish the exact location of the installation as shown on drawing TEB 1.70. The post size will be determined by the Engineer and the post length will be determined by the Contractor.

For replacement installations, the Engineer will determine which existing posts are to be reinstalled or replaced. Posts shall be replaced with posts of the same size unless otherwise specified by the Engineer. Existing signs shall be salvaged and reused wherever possible.

The Contractor shall be responsible for having post locations checked for utilities prior to excavating holes.

Posts shall be installed in accordance with drawing TEB 1.70 and shall be within 1.5 degree of vertical.

The soil at the bottom of the hole shall be thoroughly compacted to provide a firm bearing. The posts shall be set vertically and backfilled with suitable soil free of organic material. The backfill around the posts shall be placed and compacted in thin lifts. Cementitious materials shall not be used as backfill.

The disturbed area around the post shall be restored to the original contours.

When a post is removed and replacement is not requested, the Contractor shall backfill the hole in thin compacted lifts.

**54.11.5 TIME TO COMPLETE AND SCHEDULING OF WORK**

This Work shall be completed in conjunction with the installation of signs where applicable.

The Contractor shall complete the Work associated with the installation of critical signs, "Stop" and "Yield", immediately upon request.

The Work associated with warning and regulatory signs shall be completed within 10 calendar days of the issuance of the Work Order. The Work associated with all other types of signs shall be completed within 30 calendar days of the issuance of the Work Order.

**54.11.6 MEASUREMENT AND PAYMENT**

**54.11.6.1 Remove and Replace**

Measurement will be made of the number of posts supplied and installed of a particular size.

Payment will be made at the unit price bid per post for "Supply and Install Sign Posts - 100 mm x 100 mm" or "Supply and Install Sign Posts - 100 mm x 150 mm" or "Supply and Install Sign Posts - 150 mm x 200 mm" regardless of the length of post. This payment will be full compensation for removing and disposing of existing posts, reinstalling existing posts where necessary, supplying and installing of new posts, traffic accommodation and signing and all labour, materials, equipment, tools and incidentals necessary to complete the Work.

**54.11.6.2 Remove Only**

Measurement will be made of the number of posts removed.

Payment will be made at the unit price bid per post for "Remove Sign Posts" regardless of the size of post. This payment will be full compensation for removing and disposing of wooden posts, removing and disposing or salvaging the sign, backfilling the holes, traffic accommodation and signing, and all labour, equipment, tools and incidentals necessary to complete the Work.

**54.11.7 WARRANTY**

The warranty period for the supply and installation of posts shall be 60 days.