

## **ITEM 10209.22 M - PLANT PALLETS**

### **DESCRIPTION:**

This work shall consist of furnishing and installing plant pallets for the protection and enhancement of existing shore and stream river banks including any necessary reshaping of banks as shown on the plans or as ordered by the Engineer.

### **MATERIALS:**

The plant pallets shall consist of pre-vegetated blankets. The plant material shall be as indicated in the Landscape Development Sheets. The sizes of the plant pallets shall be as shown on the plans. The exterior knotted mesh netting of the plant pallets shall be 100% Coir fiber mesh or a woven polyethylene material with a minimum tension strength of 1380kPa.

Notched stakes shall be Oak or Southern Yellow Pine, with wedge shaped points. The top of the stake shall be notched as shown in the plans.

### **CONSTRUCTION DETAILS:**

The installation of the pallets shall be done in accordance with these specifications and in a reasonably close conformity with the details shown on the plans or as directed by the Engineer.

Plant pallets shall be placed lengthwise with the lowest edge as shown on the plans and shall be installed with good soil contact on a smooth ground free from excess vegetation. At the upstream end of the treatment, the end of the plant pallet shall be buried and staked securely in place. The plant pallets shall have a shingle-style overlap above down slope plant pallets. Plant pallets shall be anchored with notched wood stakes, in offset rows along the upper edge, centerline, and lower edge of the plant pallets as shown on the plans. Plant species in the plant pallets shall be as shown on the planting schedule.

Following placement, plant pallets shall be covered lightly with soil and watered to wash soil particles into any gaps and spaces.

Reshaping shall be completed as necessary on the bank above the mean water level only after the plant pallet is fully placed. Care shall be taken to disturb as little soil as possible outside the work area and to avoid damage to any existing trees and shrubs on or near the bank.

The plant pallets shall be lashed together end to end with nylon rope to create a continuous length.

The pallets shall also be lashed down with braided nylon or 2 ply rope.

### **DELIVERY, STORAGE AND HANDLING:**

- A. Materials: Protect materials from deterioration during delivery and while stored at site.

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- B. Plants: Provide healthy plants in good condition. Plant within 6 hours of delivery to site or provide temporary storage in moist conditions for periods up to four days.
- C. Live Brush: Provide healthy brush of the proper dimensions which is free from disease and pests. Install within 6 hours of collection or store in moist shaded conditions or store submerged in clean fresh water for a period of up to one week. Live brush must be dormant.

### **SEQUENCING AND SCHEDULING:**

1. Materials: Install during any season of the year, provided that the ground is not substantially frozen and may be effectively excavated, compacted, and smoothed.
2. Plants: Install during the frost free season, provided that any related materials installed within 6 meters has been completed earlier.
3. Live Brush: Install during the dormant season between January 31 through May 15, weather permitting, or as ordered by the Regional Landscape Architect.

Installation Time: Proceed with complete installation as rapidly as portions of the site become available and soon enough to meet the requirements to control sediment and erosion effectively prior to disturbance of significant portions of the site.

### **MAINTENANCE**

The Contractor shall be responsible to maintain the Plant Pallets and plant material for the duration of the contract and thru the period of establishment as specified in Section 611-3.06 "Period of Establishment". Any material that has to be replaced or repaired shall be replaced or repaired by the Contractor at no additional cost to the State.

### **METHOD OF MEASUREMENT:**

This work will be measured as the number of plant pallets, regardless of thickness and size, installed.

### **BASIS OF PAYMENT:**

The unit price bid per plant pallet shall include the cost of furnishing all labor, material, and equipment to complete the work to furnish and install the plant pallets, including any necessary reshaping of bank, as shown in the contract plans. The Contractor will be paid 80% of the bid price upon the installation of the plant pallets and the remaining 20% upon the completion of the project or as ordered by the Engineer.

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