

**SECTION 02850
SOIL STABILIZATION MATTING**

1.0 GENERAL

A. Description

Soil stabilization matting shall include, but not necessarily be limited to, furnishing and placing excelsior matting over seeded areas, and securing with wire staples on seeded areas in accordance with the Contract Documents.

B. Related Work Included Elsewhere

Turf Establishment: Section 02820.

C. Quality Assurance

The Commission will inspect all materials before, during, and after installation to ensure compliance with the Contract Documents.

2.0 MATERIALS

A. Materials Furnished by the Commission

The Commission will not furnish any materials for soil stabilization matting.

B. Contractor's Options

Not applicable.

C. Detailed Material Requirements

1. Excelsior Matting

- a. Excelsior matting shall be machine produced from wood which has been properly cured to achieve adequately curled and barbed fibers. A maximum of 20% of the fibers may be less than 6 inches in length.
- b. The excelsior matting shall have a uniform thickness and distribution of fibers throughout. The top and bottom of the excelsior matting shall be covered with a biodegradable extruded plastic netting having a maximum mesh opening of 2 inches x 2 inches. The average break strength of any two strands running lengthwise shall be 5 pounds minimum. The net shall be entwined with the excelsior to aid handling and provide sufficient reinforcement against damage during handling and placement.
- c. The excelsior matting shall be smolder resistant. A chemical treatment may be applied to the matting to make it smolder resistant. The chemical treatment, if used, shall be nonleaching, nontoxic to vegetation and germination of seed, and noninjurious to human skin. Rolls of the excelsior matting shall meet the following requirements: width - 48 + 1 inch; weight - 0.60 pounds per square yard minimum at 0% moisture; nominal roll length - 180 feet.

2. Staples shall be as specified in Section 02830.
3. "T"-pin staples shall be made of No. 8 wire with an 8-inch leg, 4" head and a 1-inch secondary leg.
4. Materials required for seeding shall meet the requirements of Section 02820, except mulch binder will not be required.

3.0 EXECUTION

A. General

When topsoil is specified for areas where matting is being placed, topsoil placement shall be completed before the soil stabilization matting operations are started.

B. Seeding

Seeding shall be performed in accordance with the provisions of Section 02820, except that Fall season installation of soil stabilization matting shall end on September 30, and the rolling operation shall be omitted. The seed mixture shall be the same as in the areas immediately adjacent to the area where matting is to be placed.

C. Placing and Securing

The matting shall be placed prior to the first rain event or within 48 hours after seeding operations have been completed in the work areas, whichever is less. Matting shall be rolled on in the direction of the flow of water. Where more than one width of matting is required, the strips shall overlap at least 4 inches. Ends shall overlap at least 6 inches. The upgrade end of each strip of matting shall be turned down and buried to a depth of not less than 6 inches with the soil firmly tamped against it. Overlapping shall be done with the upgrade section on top. The Commission may require any other edge exposed to more than normal flow of water be buried in a similar manner. Edges of matting must be similarly buried around the edges of catch basins and other structures. Disturbed areas shall be fertilized and reseeded with the specified seed mixture for the area.

Matting shall be laid smoothly upon the seeded surface, and stretching shall be avoided. Matting shall be securely fastened with staples driven vertically into the soil, flush with the surface. Matting shall be in firm contact with the soil in its entirety. Staples shall be placed 2 feet apart along the edges and center of the matting. On all overlapping edges, staples shall be placed 18 inches apart. At all ends of the matting, staples shall be placed 6 inches apart.

D. Contractor's Responsibility

Before final acceptance of the Project, it shall be the responsibility of the Contractor to remove all heaved staples, which have been in place a minimum of 6 months, from areas to be mowed, or as directed by the Commission.

4.0 METHOD OF MEASUREMENT

- A. Except when used as a contingent item or noted otherwise, measurement for soil stabilization matting will not be made, as it shall be included in the unit quantity item for all pipe and structures installed.

- B. When used as a contingent item or noted otherwise, measurement for furnishing and installing soil stabilization matting will be made of the surface area, measured in place, acceptably installed.

5.0 BASIS OF PAYMENT

A. General

1. Except when used as a contingent item or noted otherwise, payment for soil stabilization matting will not be made, as it shall be included in the unit quantity item for pipe and structures installed.
2. When used as a contingent item or noted otherwise, payment will be made at the unit price bid. The price bid shall include furnishing all labor, tools, equipment, and materials necessary to complete the work as shown and specified in strict accordance with the Contract Documents.
3. Payment will be made for contingent items when approved by the Commission.

B. Stabilization Matting

Payment for stabilization matting will be made per square yard at the contingent prices established in the bid form. The price bid shall include all traffic control, and incidental items to complete the soil stabilization matting.

****END OF SECTION 02850****