



Florida Department of Transportation

CHARLIE CRIST
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

STEPHANIE KOPELOUSOS
INTERIM SECRETARY

January 16, 2007

Mrs. Leslie McCarthy, PhD, P.E.
Program Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section 571
Proposed Specification: 5710000 Plastic Erosion Mat

Dear Mrs. McCarthy:

We are submitting, for your approval, two copies of a proposed Special Provision for Plastic Erosion Mat.

This change is to correct references in the specification due to other specification changes.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to SP965DB or duane.brautigam@dot.state.fl.us.

If you have any questions relating to this specification change, please call Duane F. Brautigam, State Specifications Engineer at 414-4110.

Sincerely,

Signature on File

Duane F. Brautigam, P.E.
State Specifications Engineer

DFB/ft

Attachment

cc: General Counsel
Florida Transportation Builders' Assoc.
State Construction Engineer

PLASTIC EROSION MAT.**(REV ~~1-5-00~~~~1-11-07~~ (FA ~~1-12-00~~) (7-02)**

PAGE 667. The following new Section is added after Section 570:

**SECTION 571
PLASTIC EROSION MAT****571-1 Description.**

Furnish and install plastic erosion mat on areas as shown in the plans. Conduct this work in conjunction with the ~~grassing~~ *Performance Turf* work as specified in either Section 570 ~~or Section 575~~.

571-2 Materials.

Use a plastic erosion mat consisting of continuous or fused synthetic polymer fibers, which are entangled to form a three dimensional matrix (netting or distorted netting may be included as part of the matrix). Ensure that the mat is capable of maintaining its shape throughout installation. Ensure that the mat is inert to chemicals encountered in a natural soil environment, and meets the requirement of Section 985 and the Design Standards, No. 199 according to its application.

571-3 Installation of Plastic Erosion Mat.

Before installing the plastic erosion mat furnish the Engineer two certified copies of the test report from the manufacturer certifying that the geotextile to be incorporated into this project meets the requirements of Section 985 and Index No. 199 of the Design Standards also, provide two copies of the manufacturer's written installation instructions.

Install a plastic erosion mat of uniform thickness, not less than 1/4 inch or more than 3/4 inch on the prepared soil surface in accordance with these Specifications, the manufacturer's recommendations and in conformity with the lines, grades and dimensions as shown in the plans. Ensure that all joints are shingle lapped such that the bottom of each section fits over the top of the section below to prevent uplift of the ends or edges by water flow. Overlap ends of adjacent rolls a minimum of 3 feet. Overlap edges of adjacent rolls a minimum of 4 inches. Stake all edges at 3 to 5 feet intervals with staples as recommended by the manufacturer unless otherwise directed by the Engineer. Ensure that overlaps and anchor trenches are in conformance with the plans and the manufacturer's installation recommendations.

Ensure that after installation there are no protrusions, projections or exposures of the plastic erosion mat. Do not compact the installed plastic erosion mat with any type of equipment employing a foot or grid.

The Engineer will reject any material having defects, tears, punctures, flaws, deterioration or other damage before, during or after installation. Remove and replace all rejected plastic erosion mat at no additional expense to the Department.

Fill all voids in the mat with soil meeting the requirements of Section 987. ~~Seed~~ *Establish Performance Turf meeting* ~~in accordance with~~ the requirements of Section 570 ~~or sod in accordance with the requirements of Section 575~~.

571-4 Method of Measurement.

The quantity to be paid for will be the surface area of Plastic Erosion Mat installed and accepted in square yards with no allowance for overlaps.

~~Seeding or Sodding~~ *Performance Turf* will be paid for separately in accordance with Section 570 ~~or Section 575 as appropriate.~~

571-5 Basis of Payment.

Price and payment will be full compensation for all work specified in this Section, including furnishing, handling, placement of Plastic Erosion Mat, all labor, equipment, and miscellaneous materials necessary for a complete and accepted installation.

Payment will be made under:

Item No. 571- 1- Plastic Erosion Mat - per square yard.

PLASTIC EROSION MAT.**(REV 1-11-07)**

PAGE 667. The following new Section is added after Section 570:

**SECTION 571
PLASTIC EROSION MAT****571-1 Description.**

Furnish and install plastic erosion mat on areas as shown in the plans. Conduct this work in conjunction with the Performance Turf work as specified in either Section 570.

571-2 Materials.

Use a plastic erosion mat consisting of continuous or fused synthetic polymer fibers, which are entangled to form a three dimensional matrix (netting or distorted netting may be included as part of the matrix). Ensure that the mat is capable of maintaining its shape throughout installation. Ensure that the mat is inert to chemicals encountered in a natural soil environment, and meets the requirement of Section 985 and the Design Standards, No. 199 according to its application.

571-3 Installation of Plastic Erosion Mat.

Before installing the plastic erosion mat furnish the Engineer two certified copies of the test report from the manufacturer certifying that the geotextile to be incorporated into this project meets the requirements of Section 985 and Index No. 199 of the Design Standards also, provide two copies of the manufacturer's written installation instructions.

Install a plastic erosion mat of uniform thickness, not less than 1/4 inch or more than 3/4 inch on the prepared soil surface in accordance with these Specifications, the manufacturer's recommendations and in conformity with the lines, grades and dimensions as shown in the plans. Ensure that all joints are shingle lapped such that the bottom of each section fits over the top of the section below to prevent uplift of the ends or edges by water flow. Overlap ends of adjacent rolls a minimum of 3 feet. Overlap edges of adjacent rolls a minimum of 4 inches. Stake all edges at 3 to 5 feet intervals with staples as recommended by the manufacturer unless otherwise directed by the Engineer. Ensure that overlaps and anchor trenches are in conformance with the plans and the manufacturer's installation recommendations.

Ensure that after installation there are no protrusions, projections or exposures of the plastic erosion mat. Do not compact the installed plastic erosion mat with any type of equipment employing a foot or grid.

The Engineer will reject any material having defects, tears, punctures, flaws, deterioration or other damage before, during or after installation. Remove and replace all rejected plastic erosion mat at no additional expense to the Department.

Fill all voids in the mat with soil meeting the requirements of Section 987. Establish Performance Turf meeting the requirements of Section 570.

571-4 Method of Measurement.

The quantity to be paid for will be the surface area of Plastic Erosion Mat installed and accepted in square yards with no allowance for overlaps.

Performance Turf will be paid for separately in accordance with Section 570.

571-5 Basis of Payment.

Price and payment will be full compensation for all work specified in this Section, including furnishing, handling, placement of Plastic Erosion Mat, all labor, equipment, and miscellaneous materials necessary for a complete and accepted installation.

Payment will be made under:

Item No. 571- 1- Plastic Erosion Mat - per square yard.