

2. Spike Grid Connectors shall meet ASTM A-47, Grade 35018.
  3. All connectors, except those of malleable iron, shall be galvanized according to AASHTO M-111.
- B. **Hardware.** Bolts, rods, drift-bolts, and dowels may be either wrought iron or medium steel. Washers shall be made integral with the heads and nuts and their diameters shall be at least 4 times the diameter of the respective bolts. Hardware, nails, and spikes shall be galvanized according to AASHTO M-232.

## SECTION 846 PRESERVATIVES AND PRESSURE TREATMENT PROCESSES FOR TIMBER

### 846.01 TIMBER PRESERVATIVES.

This material shall meet AASHTO M-133.

## SECTION 848 MASONRY UNITS AND BRICK

### 848.01 MATERIAL.

- A. **Concrete Masonry Units for Construction of Catch Basins and Manholes**  
..... ASTM C-139
- B. **Building Brick (Made from Clay or Shale).** ..... AASHTO M-114

## SECTION 852 PAINTS, OILS, AND THINNERS

### 852.01 MATERIALS.

Paints, oils, and thinners shall meet the following:

- A. **Aluminum Paint.** ..... AASHTO M-69
- B. **Lamp Black.** ..... ASTM D-209
- C. **Chrome Yellow and Chrome Orange.** ..... ASTM D-211
- D. **Enamels.** The enamel shall meet the general requirements of Federal Specifications TT-E-529 Enamel, Alkyd, Semi-Gloss (Class A-Air-drying) with the following exceptions:

1. Alkyd resin shall be an alkyd meeting Federal Specification TT-R-266a Resin, Alkyd (Type I or Type II).
2. Specular gloss, 60°, shall be in the range of 40 to 70.

**SECTION 854  
GALVANIZING**

**854.01 GALVANIZING.**

Galvanizing shall meet AASHTO M-111 or AASHTO M-232.

**854.02 DAMAGED GALVANIZED COATINGS.**

Repair of damaged galvanized coatings shall meet ASTM A-780.

**SECTION 856  
SOIL RETENTION BLANKETS**

**856.01 WOOD EXCELSIOR FIBER MAT.**

The wood excelsior fiber mat shall consist of a machine produced mat of cured wood excelsior in which 80% of the fibers are 6 inches or longer. The fiber mat shall have a consistent thickness of fiber evenly distributed over the entire area. The top of each mat shall be covered with a photo-degradable extruded plastic mesh with maximum openings of 1 inch by 3 inches. The wood excelsior fiber mat shall be treated to be smolder resistant without using chemical additives.

The fiber mat shall have the following physical properties:

Width of Mat . . . . .	Min. 36 inches
Roll Length . . . . .	Min. 100 feet
Weight . . . . .	Min. 0.7 pounds per sq. yard

**856.02 STRAW AND FIBER MATS**

- A. **Straw Mat.** The mat shall be machine produced of clean straw from agricultural crops and be sewn together with biodegradable cotton or nylon thread. The top side shall be covered with a biodegradable plastic mesh or netting with maximum openings of 5/8 by 5/8 inches.