

## 804-T-205 DELINEATORS

*(Adopted 07-17-14)*

The Standard Specifications are revised as follows:

SECTION 804, BEGIN LINE 10, INSERT AS FOLLOWS:

**804.02. Materials**

Materials shall be in accordance with the following:

Delineator Posts .....	910.15
Delineators .....	926.02
Flexible Delineator Posts .....	926.01

The types of delineators shall be:

- (a) D1 – single;
- (b) D2 – double;
- (c) D3 – triple.

Hardware for mounting delineators on posts shall be aluminum alloy in accordance with 919.01(d)2; stainless steel or galvanized steel in accordance with 919.01(d)1; or aluminum pull-through blind rivets. Bolts and lock-nuts or rivets shall be 3/16 in. diameter.

*The types of flexible delineator posts shall be:*

- (a) type I – ground mounted*
- (b) type II – surface mounted.*

**CONSTRUCTION REQUIREMENTS****804.03 Delineator Visibility**

Delineator reflector units shall be positioned so as to be visible for a distance of 1,000 ft on tangent sections or at maximum visibility distances on curves. These locations shall be established under normal weather and atmospheric conditions when illuminated by the upper beam of standard automobile headlights.

**804.04 Posts**

Posts shall be installed in accordance with 802.07.

**804.05 Flexible Delineator Posts**

These posts shall be installed according to the manufacturer's recommendations and shall be set so that the top is no more than 1/2 in. from any vertical plane through the bottom.

**804.06 Method of Measurement**

Delineators with posts, delineator posts, and flexible delineator posts will be measured by the number of units of the type specified.

#### **804.07 Basis of Payment**

The accepted quantities of delineators, delineators with post, delineator post, and flexible delineator post, if set out as a separate pay item, will be paid for at the contract unit price per each for the type specified, complete in place.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit Symbol</b>
Delineator Post .....	EACH
Delineator Post, Flexible, _____ type	EACH
Delineator with Post, _____ type	EACH
Delineator .....	EACH

Where new delineator posts are installed to replace existing delineator posts, the cost of the removal of the existing post shall be included in the cost of the new post.

SECTION 926, BEGIN LINE 1, DELETE AND INSERT AS FOLLOWS:

#### **SECTION 926 - MISCELLANEOUS MATERIALS**

##### **926.01 Flexible Delineator Posts**

Flexible delineator posts shall be made of ~~HDPE plastic in accordance with ASTM D 5203~~*impact resistant thermoplastics*. The post shall be straight along its center line and have a smooth surface free from cracks, flaws, seams, laps, blisters, and edges affecting the strength, durability, or appearance. The cross section width shall not exceed 6 in.

The reflective sheeting on ~~the~~*all* posts shall be in accordance with 919.01(b)*1* and shall have minimum dimensions of 3 in. by 8 in. Reflective sheeting shall be applied directly to the post and protected in a manner that minimizes damage to the sheeting upon impact.

The color of the post and the reflective sheeting shall match the color of the adjacent edgeline.

~~When installed, the flexible post shall withstand, without damage, five vehicle impacts at ambient air temperatures of 32°F and at 85°F each. The vehicle impacts shall include both bumper and tire impacts. It shall be able to bend to an angle of 85° from vertical and right itself to within 10° of the vertical immediately and stand erect within 4 h within the same ambient air temperature range.~~

Only flexible delineator posts from the Department's list of approved Flexible Delineator Posts shall be used. Flexible delineator posts will be placed and maintained on the Department's approved list in accordance with ITM 806, Procedure ~~GH~~.

**(a) Type I. Ground Mounted Flexible Delineator Post**

*Roadside delineator post shall use an anchor sufficient to keep the post securely embedded in the soil.*

**(b) Type II. Surface Mounted Flexible Delineator Post**

*Surface-mounted post shall have either a surface-mounted base capable of bolting or adhering to the pavement or an anchor cup embedded in the pavement. Bases shall be made of materials suitable for securely mounting the vertical portion to the roadway. Materials used to attach the base or in-pavement anchor cup to the roadway surface shall be in accordance with the manufacturer recommendations.*

*The reflective sheeting on surface-mounted posts shall consist of two 3 in. wide wraps around the post separated by a 3 in. gap beginning 1 in. down from the top, or as shown on the plans.*

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