July 3, 2017

REVISION OF SECTION 612

FLEXIBLE DELINEATORS

**NOTICE**

This is a standard special provision that revises or modifies CDOT’s *Standard Specifications for Road and Bridge Construction.* It has gone through a formal review and approval process and has been issued by CDOT’s Project Development Branch with formal instructions for its use on CDOT construction projects. It is to be used as written without change. Do not use modified versions of this special provision on CDOT construction projects, and do not use this special provision on CDOT projects in a manner other than that specified in the instructions unless such use is first approved by CDOT’s Standards and Specifications Unit. The instructions for use on CDOT construction projects appear below.

Other agencies which use the *Standard Specifications for Road and Bridge Construction* to administer construction projects may use this special provision as appropriate and at their own risk.

**Instructions for use on CDOT construction projects:**

Use on projects having flexible delineators.

Section 612 of the Standard Specifications is hereby revised for this project as follows:

In subsection 612.02 (a) 2.B, delete the first paragraph and replace with the following:

B. Base Anchoring. The posts shall be designed to facilitate a permanent installation that resists overturning, twisting, and displacement from wind and impact forces. It shall have an anchoring depth of 22½ to 23 inches per CDOT Standard Plan S-612-1 or manufacturer’s recommendation. A concrete foundation shall be used for delineator support in soft soils per the plans or as directed by the Engineer.

 Delete subsection 612.02 (a) 2.E and replace with the following:

E. Dimensions.

(1) Width. The post shall have a minimum width of 2 3/8 inches and a maximum width of 4 1/8 inches facing traffic with a 0.22-inch minimum wall thickness.

 (2) Length. The post shall be of such length to provide a height of 48 inches above the edge of the pavement and to provide the required anchoring depth for the Drivable Method of installation. The post length shall adhere to the requirements outlined in S-612-1 for all other installation methods.

Subsection 612.02 (a) 2.F shall include the following:

1. The post (excluding post, clamp and cup mount types) shall have a simple non-mechanical flexible joint. The flexible joint shall have a square to round configuration that transitions from the ground anchor to the post and shall enable the posts to self-right after omni-directional impacts. The square end shall be molded to exactly fit inside the 2-inch square tubing opening and transitions to a round configuration to exactly fit inside the delineator post. The flexible joint shall be fully inserted in both ends to allow proper installation of securing hardware and self-righting properties.
2. The post shall be permanently sealed at the top and have a 13 inch flattened surface to accommodate up to three (3” by 3”) reflective sheets. A Type I delineator shall have one (3” by 3”) reflective sheet on one side, a Type II shall have two (3” by 3”) reflective sheets on one side and a Type III shall have three (3” by 3”) reflective sheets on one side. Reflective sheets shall be placed in a straight vertical column starting one inch from the top edge of the delineator. Type II and III delineators shall have reflective sheets separated by one inch vertically in the column. All reflective sheets shall be placed at the factory by the fabricator prior to on-site delivery of delineators. The texture of the projected surface shall be smooth and suitable for the adherence of reflective sheeting without preparation other than wiping with a clean cloth damped with mineral spirits to remove oil-type contaminants.
3. The post shall be comprised of high density thermoplastic, consisting of a minimum of 70% by volume, post-consumer recycled HDPE, with an interstate green, premium U.V. inhibited, co-extruded HDTP shell and a flexible insert which transitions from square to round.
4. The anchor shall be galvanized steel perforated tubing.

Subsection 612.05 shall include the following:

Payment will be made under:

**Pay Item Pay Unit**

Delineator (Flexible) (Post Mounted) Each

Delineator (Flexible) (Clamp Mounted) Each

Delineator (Flexible) (Cup Mounted) Each

Delineator (Flexible) (Drivable) (Type I) Each

Delineator (Flexible) (Drivable) (Type II) Each

Delineator (Flexible) (Drivable) (Type III) Each