

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
FLEXIBLE DELINEATORS

PMK:MKB

1 of 2

APPR:AJU:GJD:10-09-24
FHWA APPR:10-10-24

a. Description. This work consists of furnishing and installing rebounding ground-mounted and/or surface-mounted flexible delineators with reflective sheeting in accordance with the standard specifications, the contract, and this special provision.

b. Materials.

1. Ground-Mounted. Select products from the Qualified Products List (919.03D). The selected post must have a height of 48 inches. Ensure the color of the post and the sign sheeting applied to the flexible post are the color of the pavement marking line the delineator is supplementing. Ensure the reflective sheeting is *ASTM Type XI* sheeting with a minimum area of 27 square inches. Sheeting is required on both sides of the post on undivided roadways. The anchor system must consist of 2-inch perforated square tubing 24 inches in length that allows for replacement of the post without impacting the anchor.

2. Surface-Mounted. Select products from the Qualified Products List (919.03D) with a height as specified in the contract. Ensure the color of the post and the sign sheeting applied to the flexible post are the color of the pavement marking line the delineator is supplementing. Ensure the reflective sheeting has a minimum total area of 27 square inches. Sheeting is required to be visible on all sides of the post that face approaching traffic.

c. Construction. Install flexible delineator posts with the required anchoring accessories, in accordance with section 810 of the Standard Specifications for Construction and the post manufacturer's directions. Do not bend or damage the posts. Install the flexible post plumb such that its reflective sheeting will be perpendicular or radial to oncoming traffic. Replace posts or sheeting damaged during installation at no additional cost to the contract.

Mount reflective sheeting as shown on the Standard Plan R-127 Series.

Prior to applying reflective sheeting to flexible delineator posts, the application area of the post must be flame treated. Flame treating may be accomplished with either hand-held torches or commercially available flame treaters, through the following steps:

1. Ensure the area to be flame treated is clean and free of dirt and oils.
2. Adjust the torch or flame treater to produce a highly oxygenated blue flame. A poorly oxygenated (yellow) flame will not effectively treat the surface.
3. Expose the application area of the post to the blue flame with one-quarter to two inches of separation, moving over the application area at a speed of greater than or equal to one inch per second.

4. Ensure proper distance and duration are determined for any given substrate or device and should adhere to the post manufacturer's recommendations. A surface that is properly flame treated will not be exposed to a significant rise in temperature. Improper flame treating operations that overheat the plastic may soften or deform the substrate.

d. Measurement and Payment. The completed work, as described, will be measured and paid for at the contract unit price using the following pay items:

Pay Item	Pay Unit
-----------------	-----------------

Post, Flexible, Delineator, Ground Mtd	Each
--	------

Post, Flexible, Delineator, Surface Mtd, __ inch	Each
--	------

The above pay items include all costs for the post, reflective sheeting, layout, and installation.