

SECTION 966—SNOWPLOWABLE RAISED PAVEMENT MARKERS

966.1 DESCRIPTION—This work is the furnishing, installation, and replacement of snowplowable, retroreflective, raised pavement markers of the type indicated.

966.2 MATERIAL—

(a) **General.** Provide materials listed in [Bulletin 15](#). Certify materials as specified in [Section 106.03\(b\)3](#).

(b) **Snowplowable Raised Pavement Markers.** [ASTM D 4383](#)

(c) **Adhesive.** [ASTM D 4383](#), A1 and X1. A type and formulation, recommended by the pavement marker manufacturer and approved by the Department, for bonding the reflectors or holders to the pavement or the reflectors to the holders.

966.3 CONSTRUCTION—As shown on the [Standard Drawings](#), recommended by the manufacturer, and as follows:

(a) **Layout.** Before installing, lay out the pavement marker locations.

Do not place devices on pavement surfaces that show visible evidence of pavement cracking, checking, spalling, or failure of underlying base material. Do not place devices within 100 mm (4 inches) of a pavement joint. During the pre-installation layout, if it is determined that a device would be placed at a point where any of the above conditions exists, relocate it longitudinally to the directed location.

(b) **Sawing.** Cut the depression in the pavement.

(c) **Installation.** Install within 7 days of making the saw cuts. Before applying the adhesive, vacuum or blow the depression to remove loose material, then clean and dry the depression with compressed air. Apply the adhesive and place the unit into the depression. Be certain that markers are properly seated with the leading edges below the roadway surface or reflectors are placed as shown on the [Standard Drawings](#). Secure in place until adhesive is set.

At the time of installation, be sure that devices are free of dirt, dust, oil, grease, rust, moisture, or any foreign matter that impairs adhesion to the pavement.

Do not apply devices if the pavement surface temperature and the air temperature at the time of application are less than 10 °C (50F) or as recommended by the manufacturer. Do not install markers if the pavement surface is moist or wet.

(d) **Replacement.** Use the following procedures for the replacement of the holders or reflectors:

- Remove and dispose of any damaged device.
- Cut a new depression when required.
- Ensure the attachment area is smooth and clean.
- Apply adhesive and install the new holder or reflector as indicated above.
- Fill void in pavement left by missing or removed devices with an approved epoxy.

(e) **Guarantee.** Within 30 calendar days of notification, replace defective holders and/or reflectors if any of the following unsatisfactory conditions exist:

- The holder does not remain in place or does not resist deformation for 180 days after acceptance; has not remained in the exact location and alignment as originally placed; is deformed, cracked or otherwise not able to provide useful service; or shows visible signs of bond failure between the holder and the adhesive.
- Reflectors are missing or do not provide full service for a period of 180 days after acceptance.
- Reflectors fail between the date of notification and the replacement date.

966.4 MEASUREMENT AND PAYMENT—

(a) **Raised.** Each

(b) **Reflector Replacement.** Each