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5.28 SUPPLY FLEXIBLE GUIDE POST TRAFFIC DELINEATORS5.28.1 GENERAL

The Work consists of the supply of flexible guide post traffic delineators.

5.28.2 MATERIALS

The Contractor shall supply flexible guide posts which return to upright positions following repeated impacts and passages of vehicles over them. Such collisions shall not cause serious damage to the post or vehicle. Failure to conform to the requirements specified herein shall be cause for rejection.

5.28.2.1 **General**

The posts shall be of uniform high quality and workmanship and be free from defects.

Prior to installation, the Contractor shall provide a complete report of the physical properties of the post to the Consultant. This report shall include properties such as low temperature impact resistance, after-impact recoverability and weather resistance.

5.28.2.2 **Specifications - Dimensions, Colour and Construction**

The round posts shall have a minimum outer diameter of 90 mm and an overall length of 1.67 metres. The semi flat fibreglass posts shall have a minimum width of 90 mm and an overall length of 1.67 metre.

The top 250 mm of the post length shall be black and the remainder shall be white.

The post shall be straight. Straight is defined as having no point along the length of the post any more than 6 mm removed from a perfectly straight edge placed parallel to any side of the post.

Round posts shall be open at the top and bottom.

The surface of the post shall be smooth and free from irregularities or defects. The surface of the post shall not be affected by cleaning using scrapers, detergent and water, or solvent.

The black portion of the post shall accept and hold securely high-intensity reflectorized sheeting applied to its surface area with heavy-duty stainless steel staples, glue or other adhesives deemed suitable by the manufacturer.

If one piece construction is not used, then the connections between the pieces shall be at least as strong as if constructed of a single piece. The strength shall exist at temperatures ranging from -50°C to 50°C.

The reflective portion of round posts shall be visible from all directions and shall be of sufficient size so as to be recognizable in the dark as a guide post reflector. The reflective portion of semi flat posts shall be visible to traffic.

5.28.2.3 Weather Resistance and Durability

The post shall not be seriously affected by ozone, exhaust fumes, asphalt or road oils, dirt, vegetation, deicing salts or any other types of air contamination or materials likely to be encountered after installation.

The post shall withstand without serious damage all elements likely to be encountered after installation including hot (50°C) or cold (-50°C) temperatures, rain, snow, hail, abrasion and physical abuse.

5.28.2.4 Strength And Flexibility

The posts shall resist, without breaking, tearing, shattering or other serious damage, one highway vehicle impact at a speed of 100 km/h at a test temperature of -33°C.

The post shall not bend, warp or distort when installed at temperatures up to 50°C or installed in wind velocities up to 120 km/h.

5.28.2.5 High-Intensity Reflectorized Sheeting

Each post shall have a 50 mm wide high-intensity reflectorized sheeting material (3M#9880 Scotchlite or equivalent) installed between 100 mm and 150 mm from the top of the post.

5.28.3 MEASUREMENT AND PAYMENT

Payment for the supply of guide posts will be included in the unit price bid per post for "Flexible Guide Post/Delineators - Round - Supply and Install" or "Flexible Guide Post/Delineators -Semi Flat - Supply and Install", in accordance with Specification 2.19, Guardrail and Guide Posts.