

CHANNELIZING CURB
(REV 5-1-23)

The following new Section is added.

SECTION 703
CHANNELIZING CURB

703-1 Description.

Furnish and install channelizing curb at the locations for hardened centerlines and separated bicycle lanes as called for in the Plans.

703-2 Materials.

Use only products listed on the Department's Approved Product List (APL) meeting the following requirements:

Hardened Centerline	991-3
Bike Lane Separators	991-3

703-3 Product Acceptance on the Project.

Use channelizing curb products listed on the APL.

703-4 Installation Requirements.

Install channelizing curb in accordance with the manufacturer's installation instructions posted on the APL, at locations shown in the plans. If other products that are not currently listed on the APL are desired, contact the monitor so they can be placed on the APL.

Use the same color as the pavement marking being supplemented. Alternating black and colored segments is not acceptable.

703-5 Method of Measurement.

The quantity to be paid will be the sum of the lengths of individual channelizing curb segments, in linear feet, of channelizing curb furnished, installed, and accepted.

703-6 Basis of Payment.

Prices and payments will be full compensation for all work specified in this Section, including the cost of labor, materials, and incidental items required to complete the work.

Payment will be made under:

Item No. 921-703- Channelizing Curb - per linear foot.

CHANNELIZING DEVICE MATERIALS (REV 5-1-23)

SECTION 991 is expanded by the following new Article:

991-2 Channelizing Curb.

991-2.1 General: Manufacturers seeking evaluation of Channelizing Curb products for inclusion on the Department's Approved Product List (APL) shall submit an application in accordance with Section 6 and include the following documentation:

Table 991-2	
Documentation	Requirement
Product Photo	Displays the significant features of the product.
Detail Drawing	Drawing must include plan and elevation views identifying all physical dimensions and locations of mechanical anchors.
Technical Data Sheet	Uniquely identifies the product and includes product specifications, storage instructions, and recommended installation materials and equipment as applicable.
Safety Data Sheet for Channelizing Curb	Non-Hazardous, per RCRA Subtitle C
Safety Data Sheet for Adhesive (if required)	SDS meeting OSHA requirements for product and manufacturer recommended installation materials as applicable.
Installation Instructions	Include mounting surface preparations, and touch-up and repair procedures. Separate installation instructions are required for different substrates.
Product Sample	Upon request from the Department, submit a sample of the material or hardware. If the product is a system comprised of multiple parts, a sample of each part must be submitted.

991-2.2 Physical Properties: Channelizing curb must consist of preformed weather resistant segments that are surface applied to asphalt or concrete with mechanical anchors and/or epoxy adhesive. The segments shall be made of a durable elastomeric or polymer-based material intended for exterior use subject to vehicular traffic, and meeting the following physical properties:

Table 991-3			
Property	Unit	Test	Minimum Value
Hardness	ShD	ASTM D2240	38
Tensile Strength	MPa	ASTM D638	9.0

Table 991-3			
Property	Unit	Test	Minimum Value
Elongation at Break	%	ASTM D638	10
Tear Resistance	kN/m	ASTM 624	25 (for elastomeric materials only)
Resistance to Acids		ASTM D471	Excellent
Resistance to Bases		ASTM D471	Excellent
Density	g/cm ³	ASTM D792	0.900

991-2.3 Additional Requirements: Channelizing Curb materials shall be characterized as non-hazardous as defined by Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Provide supporting independent analytical data or product material safety data sheets (SDS) identifying any components listed in Table 1 of 40 CFR 261.24.

991-2.4 Hardened Centerlines: The height of hardened centerlines must range from 2 inches to 3.5 inches. The width must range from 8 inches to 16 inches. Each separator may be composed of multiple segments. Color must match the pavement marking being supplemented. Color must be uniform and integral throughout the product.

991-2.5 Bike Lane Separators: The height of bike lane separators must be at least 2 inches and no more than 6 inches. The width must be at least 8 inches and no more than 12 inches. Each separator may be composed of multiple segments.

The color of the top half must match the pavement marking being supplemented. The color of the bottom half may be black, or the same as the top half.