

SECTION 02420

STONE AND ASPHALT CURBING

PART 1 - GENERAL

1.01 SCOPE

This specification covers the materials and installation procedures required by the Contractor to repair damage to stone and asphalt curbs. The Contractor shall furnish and place curb of the type shown on the standard drawings, where shown on plan or as ordered by the Engineer.

PART 2 - MATERIALS

2.02 GRANITE STONE CURB

- A. The stone curb shall be of a hard and durable granite of a light color satisfactory to the Engineer, free from seams which impair its structural integrity and of a good smooth splitting appearance. The granite shall come from approved quarries and when tested, shall have a "Dorry Hardness Value" of not less than seventeen (17). The curb shall conform to the shape and size shown on the standard drawings with the following allowable tolerances:

<u>Item</u>	<u>Required Dimensions</u>
Depth	16" ± 1"
Face Batter	3/4" in 10"
Min. Length of Section	3'

- B. All curb shall have top surface sawed to an approximate true plane with no projection or depression of over 1/4 inch. The front and back arris lines shall be pitched straight and true. The back surface shall have no projection to exceed four (4) inches in twelve (12) inches, three (3) inches down from the top. The front face shall be at right angles to the plane at the top and shall be smooth quarry split free from drill holes in the exposed face with no projections or depressions exceeding 1/2 inch in eight (8) inches down from the top arris line. For the remaining distances there shall be no projection or depression greater than one (1) inch measured in the same manner. The arris lines at the ends shall be pitched with no variation from the plane of the face greater than 1/8 inch. The ends of all curb sections shall be square with the planes of the top and the face and so finished that when the sections are placed end to end as closely as possible, no space more than 1/2 inch shall show in the joint for the full width of the top or down on the face for eight (8) inches. The remainder of the end may break back not over twelve (12) inches from

the plane of the joint. The curb shall be thoroughly cleaned and free from any iron rust or iron particles. The joints of all radius curb shall be cut on radial lines. All radius curb shall be cut to conform to the radius lengths as shown on plan.

## 2.02 MORTAR

Mortar for filling joints shall consist of one part of Portland Cement with one part of mortar sand mixed as stiff as practicable and of such consistency that it will require rodding when placed in joints.

## 2.03 ASPHALT CONCRETE CURB

The New York State Public Works Specification shall apply except the fiber shall be added to the curb mix in the amount of two to three percent (2% to 3%).

## 2.04 CONCRETE CURB AND GUTTER

Specifications for concrete curb, concrete gutter, and concrete curb and gutter are included in Section 02400- CONCRETE.

# PART 3 - EXECUTION

## 3.01 Reference: Drawing No. DPW 10

## 3.02 GRANITE CURB INSTALLATION

- A. The curb shall be set true to line and grade on an approved foundation course providing a firm and uniform bearing. The foundation course shall consist of porous material as specified under its respective item. All spaces under the curb shall be carefully and thoroughly rammed so that it shall be completely supported throughout its entire length. The trench for the curb shall be excavated for a width equal to the curb plus twelve (12) inches and to a depth indicated on the standard drawings or as ordered by the Engineer. Curb sections shall be fitted together as closely as possible but not closer than 1/8 of an inch to form a joint. The joints in the curb shall be carefully filled with cement mortar, rodded in place and applied in the manner as indicated on the standard drawings. The top and exposed front shall be neatly pointed flush with the curb surfaces and satisfactorily cleaned of all excess mortar. The exposed face of all curb shall be set a minimum distance of 1 1/2 inches away from the edge of the pavement foundation in order to provide suitable working clearance. The 1 1/2 inch space shall be filled with cement mortar after curb is set. After the curb has been set, the trenches shall be backfilled and thoroughly tamped with an approved material. All granite curb stub ends shall be finished off by installing a tapered driveway transition piece. The Contractor shall protect the curb and keep it in alignment and first class condition until the completion of the contract. Any curb which is damaged at any time previous to the final acceptance of

the work shall be removed and satisfactorily replaced at the Contractor's expense. Driveway openings and catch basins are to be provided as shown on the standard drawings and the attention of the Contractor is hereby directed to those specifications which entail straight granite curb twelve (12) inches in depth and transition sections of the dimensions shown thereon.

- B. The NYSDOT Standard Specifications shall apply except driveway cuts may be formed by means of a blade (square point shovel is acceptable) and a template to give a uniform appearance with the driveway. The template shall produce a 45 degree angle from top to bottom and a 90 degree angle from side to side.

### 3.03 CURB CUTS & OPENINGS

Only with prior approval from the Engineer, the Contractor may cut the curb to create an opening (for a driveway or ramp) instead of removing and constructing a new curb. The curb shall be cut using a mechanical saw with a properly designed blade and left with a smooth, uniform finish. The curb shall not be broken or cracked using alternate means. The length and flare of the cut shall be determined by the Engineer with reference to Drawing No. DPW 13.

END OF SECTION