

**CONCRETE GUTTER, CURB ELEMENTS, AND TRAFFIC SEPARATOR.**  
**(REV 1-31-23)**

ARTICLE 520-2 is expanded by the following new subarticle:

**520-2.5 Plates and Grates:** For RC Channel Gutter (raised crosswalk channel gutter), when required by the plans, provide cast iron or structural steel grates with thickness no less than 1-1/4 inches and no greater than 1-3/4 inches and openings less than or equal to 1/4 inch. The ratio of surface area to opening area for the grates must not be less than 3 to 1. Plates without openings are acceptable when specified in the Plans. Walking surface of grate or plate must be even, flat, and unyielding. Do not use diamond plate or surface applied slip resistant tapes, films, nonmetallic coatings, or other similar materials. Hot-dip galvanize steel grates or plates after shop fabrication and in accordance with Section 962. Galvanized steel plates, steel grates, and cast iron grates shall have a minimum coefficient of friction on the top surface of 0.8 in dry condition, and 0.65 in a wet condition, as determined by ASTM F1677 or ASTM F1679.

ARTICLE 520-11 is deleted and the following substituted:

**520-11 Method of Measurement.**

For curb or curb and gutter, the quantity to be paid will be the plan quantity, in feet, measured along the face of the completed and accepted curb or curb and gutter. Curb for sidewalk curb ramps or driveways will be paid at the Contract unit price for the adjacent curb type.

For valley gutter or shoulder gutter, the quantity to be paid will be the plan quantity, in feet, measured along the gutter line of the completed and accepted valley gutter or shoulder gutter.

For concrete traffic separator of constant width, meeting the requirements of Standard Plans, Index 520-020, the quantity to be paid will be the plan quantity, in feet, measured along the center of its width, completed and accepted, including the length of the nose.

For concrete traffic separator of nonstandard or varying width, the quantity to be paid will be the plan quantity, in square yards, completed and accepted.

For curb of any type next to concrete pavement, the curb-pavement joint quantity to be paid will be the plan quantity, in feet, measured along the face of the completed and accepted curb.

For RC Channel Gutter, the quantity to be paid will be the plan quantity, in feet, measured along the face of the completed and accepted curb. When a grate is shown in the plans, payment for the grate will be incidental to the RC Channel Gutter.

ARTICLE 520-12 is deleted and the following substituted:

**520-12 Basis of Payment.**

**520-12.1 Concrete Gutter, Curb Elements, and Traffic Separator:** Price and payment will be full compensation for all work specified in this Section, including reinforcement steel, dowels, asphalt pavement and base under traffic separator, joint materials and asphalt curb pad.

**520-12.2 Excavation:** Excavation for new installations will be paid for as roadway excavation in accordance with 120-13.2.

**520-12.3 Payment Items:** Payment will be made under:

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| Item No. 520- 1-  | Concrete Curb and Gutter - per foot.          |
| Item No. 520- 2-  | Concrete Curb - per foot.                     |
| Item No. 520- 3-  | Concrete Valley Gutter - per foot.            |
| Item No. 520- 4-  | Curb-Concrete Pavement Joint - per foot.      |
| Item No. 520- 5-  | Concrete Traffic Separator - per foot.        |
| Item No. 520- 6-  | Concrete Shoulder Gutter - per foot.          |
| Item No. 520- 70- | Concrete Traffic Separator - per square yard. |
| Item No. 920-520- | RC Channel Gutter – per foot.                 |

Do Not Use Without  
CO Specs Authorization