

SECTION 11 CONCRETE CURB, GUTTER, SIDEWALK AND DRIVEWAYS

11.01 DESCRIPTION

Work shall conform with Section 73 and Section 90 of the State Standard Specifications with the following additions. All curb, gutter and sidewalks shall be constructed of Class A portland cement concrete. Calcium Chloride shall not be added to concrete. All concrete shall be delivered in transit mixers with agitating drums. Non-agitating transport equipment will not be allowed.

11.02 INSTALLATION

A. Subgrade Preparation

The finished subgrade immediately prior to placement of aggregate base shall be compacted to 95% relative compaction for a depth of 0.5 feet.

B. Base

Shall be Class 2 Aggregate Base mechanically compacted to 95% relative compaction.

C. Extruded Sidewalk, Curb and Gutter

Use of an extrusion machine is allowed. A test pour may be required by the City Engineer prior to approval.

D. Placing and Finishing

No concrete shall be placed or finished in the rain or under freezing conditions. It shall be the Contractor's responsibility to schedule his operations such that concrete will not be placed or finished in the rain or under freezing conditions.

At the end of each day's pour, when work is terminated, or when a delay of more than 30 minutes occurs, the joint shall be made vertical and square ended with 12 inch lengths of #4 reinforcement bar embedded at 18 inch centers.

When a concrete pour terminates at existing concrete, the rebar, as described above, shall be retrofitted by coring or drilling existing concrete (minimum of 4 inches,) installing bars, and filling annular voids with epoxy. Existing concrete shall be removed to the nearest deep joint or score mark.

Weakened plane joints shall be constructed according to the Standard Details. Expansion joint material shall not be used.

Deep tool joints shall be constructed to a depth of 1-1/2 inches.

For repair/replacement of non-standard concrete flatwork (i.e. special finish or color.) Contact the Engineering Division for specifications.

E. Testing

After construction, gutters shall be checked with flowing water. The City Engineer must be present during the flow test. Any high spots or depressions revealed by the flow test shall be repaired by removing that section of concrete and replacing it to the correct grade.

11.03 MEASUREMENT AND PAYMENT

Concrete sidewalks (excluding curb and gutter) shall be measured and paid for by the square foot, with the length being measured along the center of the section.

Concrete curb and gutter, and barrier curb shall be measured and paid for by the linear foot, measured along the face of the curb, except those portions located within the limits of driveways, access ramps, drop inlets, and all associated transitions.

Concrete driveways, access ramps, and drop inlets shall be measured and paid for per each, or as specified in the contract documents, including the portion within the gutter pan.

Payment for units measured shall include labor, materials, equipment, tools and incidentals required to construct a finished curb or flat work product, including subgrade, and aggregate base preparation all in accordance with the plans, specifications, and as directed by the City Engineer.