

**CONSTRUCTION STANDARDS**  
**SECTION CS 6**  
**PORTLAND CEMENT CONCRETE**

**CS 6-01 GENERAL:**

- A. Furnishing and placing Portland Cement Concrete shall be in conformance with Section 90, Portland Cement Concrete of the CALTRANS Standard Specifications except as amended by Section CS-6, Portland Cement Concrete, of the City Standard Specifications and Standard Drawings.
- B. Portland Cement concrete shall be constructed to the dimensions, lines and grades shown on the Project Plans.

**CS 6-02 PROTECTING CONCRETE:** in addition to the requirements of Section 90-8, Protecting Concrete of the CALTRANS Standard Specifications, the Contractor shall protect the surface of the concrete against all damage and markings both from pedestrian and other traffic. Appropriate Traffic Control barriers and signing shall be placed at the proper locations to protect the concrete and to maintain the safety for pedestrians and other traffic.

**CS 6-03 CURB, GUTTER, SIDEWALK, DRIVEWAYS, ACCESSIBLE RAMPS, MEDIAN CURBS, CONCRETE MAINTAINANCE ROADS, AND ALL OTHER CONCRETE FLAT WORK:**

- A. Curb, gutter, sidewalk, driveways, accessible ramps, median curbs, and concrete maintenance roads shall be constructed in accordance with Section 73, Curb, Gutter, and Sidewalk, of the CALTRANS Standard Specifications except as modified by the City Standard Specifications and Standard Drawings.
- B. Portland cement concrete (concrete) shall conform to “Minor Concrete” of the CALTRANS Standard Specifications except that the cement content shall be a minimum of 6 sacks of cement per cubic yard of concrete unless the Standard Drawings or Project Plans specify a different content.
- C. Where new concrete is to join existing concrete, the existing concrete shall be cut to a true line, at an existing score mark, to the full depth of the concrete section with a power driven abrasive saw. The existing concrete shall be drilled to accept 9-inch long #4 rebar dowels installed every two feet. The dowels shall be embedded a minimum of 3 inches and maximum of 4 ½ inches into the existing concrete,
- D. The letter “S” shall be stamped over each sanitary sewer service and the letter “W” shall similarly be stamped over each water service. Said letter size and font style shall be subject to the approval of the Director of Public Works. The letters shall be placed at the top of curb on vertical curb and on the top of the roll of the Low Profile curb.

- E.** The Contractor shall test the gutter for water conveyance as soon as the surface of the concrete has sufficiently set to permit the introduction of a shallow stream of water without causing damage to the gutter surface. All flow line irregularities shall be corrected before the concrete has set.
- F.** Deep Joints and score marks shall conform to the following requirements:
- 1.** Deep joints shall be a minimum of 1 inch deep.
  - 2.** Score marks shall be ¼-inch deep.
  - 3.** Deep joints and score marks for Curb, gutter, sidewalk, and accessible ramps shall conform to the Standard Drawings.
  - 4.** Deep joints for median curbs shall be installed a minimum of 1-inch deep through each face and the top of the curb evenly spaced at no more than 10 foot intervals.
  - 5.** Deep joints for concrete Maintenance Roads and all other concrete flat work shall conform to the following:
    - a.** Transverse and longitudinal deep joints shall be evenly spaced at not less than 5-foot and no more than 10-foot intervals.
    - b.** Score marks shall not be made unless otherwise required by the Project Plans.
- G.** It is the sole responsibility of the Contractor to insure that the grading, forming and final finish for placement of concrete will result in improvements that comply with the slope and dimension requirements of the Project Plans and City Standard Specifications which includes the Standard Drawings. The Contractor at its own expense shall remove and replace all concrete improvements that are not in conformance with the requirements stated in this paragraph G.