

SECTION 676—CEMENT CONCRETE SIDEWALKS

676.1 DESCRIPTION—This work is construction of cement concrete sidewalks on an aggregate bed.

676.2 MATERIAL—

- Class A Cement Concrete—[Section 704](#)
- Aggregate—[Section 350.2](#)
- Premolded Expansion Joint Filler—[Section 705.1](#)
- Concrete Curing Compound—[Section 711.2\(a\)](#)
- Curing and Protecting Covers—[Section 711.1](#)
- Mortar—[Section 1001.2\(d\)](#)
- Joint Sealing Material—[Section 705.4 \(a\), \(b\), or \(c\)](#)

676.3 CONSTRUCTION—As shown on the [Standard Drawings](#) and as follows:

(a) Preparation of Foundation. Excavate, as required, and form the foundation at a depth 250 mm (10 inches) parallel with the finished surface of the sidewalk. If directed, remove unsuitable material as specified in [Section 203.1\(b\)](#). Thoroughly compact the foundation, finish to a firm, even surface; moisten if required.

(b) Placing Aggregate for Bed. Spread aggregate on the prepared foundation to form a thoroughly compacted bed 150 mm (6 inches) deep.

(c) Forms. Use acceptable wood or metal forms that extend the full depth of the concrete.

(d) Concrete. As specified in [Section 1001.3](#).

Place concrete 100 mm (4 inches) deep. Strike off, finish, and test, as specified in [Sections 501.3\(k\)](#) and [\(p\)](#), except that manual operations are allowed and a light broom finish applied.

Form outside edges and joints with a 6 mm (1/4-inch) radius-edging tool.

Form transverse dummy joints at 1.5 m (5-foot) intervals, approximately 3 mm (1/8 inch) wide, and at least 25 mm (1 inch) deep.

If required, construct cement concrete sidewalk as indicated for curb ramp. Finish cement concrete sidewalk with a coarse broomed texture transverse to the slope of the curb ramp. Transverse dummy joints are not required for curb ramps.

(e) Expansion Joints. Place 13 mm (1/2-inch) premolded, expansion joint material for the full depth of the sidewalk, opposite expansion joints in adjacent curb, between the sidewalk and curb, and between the sidewalk and rigid structures.

1. Seal Joints. Clean joints of all scale, dirt, curing compound, and other foreign material with a mechanized wire brush.

Do not place poured joint-sealing material if the air temperature is less than 5 °C (40F), unless permitted. Use heating equipment of an indirect heating type, constructed as a double boiler. Provide positive temperature control and mechanical agitation. Obtain the safe heating temperature and recommended pouring temperature from the manufacturer's shipping container. Place the material within this temperature range, but as close as possible to the recommended pouring temperature. Maintain a safe heating temperature. Maintain a single material batch at the pouring temperature for no more than 4 hours. Heat the material only once.

Fill the joint reservoir, created by the cleaning operation, with sealing material to a depth 4 mm (1/8 inch) below the top of sidewalk. Do not allow sealing material to spread over concrete surfaces.

(f) Removal of Forms. Do not remove side forms until at least 12 hours after placing concrete. After removal of forms, fill minor honeycombed areas with mortar. As directed, remove and replace defective major honeycombed areas.

(g) Backfilling. After the concrete has cured for at least 72 hours, backfill spaces adjacent to the sidewalk, using acceptable embankment material, as specified in [Section 206.3\(b\)4](#).

Repair or replace existing pavement, curb, and sidewalk damaged due to construction. Satisfactorily dispose of unsuitable and surplus materials.

676.4 MEASUREMENT AND PAYMENT—

(a) Cement Concrete Sidewalks. Square Meter (Square Yard)

(b) Class 1A Excavation. Cubic Meter (Cubic Yard)