## City and County of San Francisco

## San Francisco Department of Public Works

INFRASTRUCTURE DIVISION
Design and Construction
1680 Mission Street San Francisco, Ca 94103
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Edwin M. Lee, Mayor Mohammed Nuru, Director

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**DPW Order No: 181306** 

ESTABLISHING PROCEDURES AND GUIDELINES FOR THE CONSTRUCTION OF REINFORCED CONCRETE IN NEW SIDEWALK.

I. <u>PURPOSE:</u> To establish procedures for constructing reinforced concrete sidewalks

in the public right-of-way to reduce cracks and damage occurring in newly poured concrete sidewalk.

## II. GENERAL INFORMATION:

- A. Cracks and damage in concrete sidewalk occur as a result of shrinkage, settlement, tree root damage, etc. When existing concrete sidewalk develops gaps, cracks, chips, displacement, holes, or other defects, permanent repairs or replacement of the sidewalk shall be required in order to maintain defect-free sidewalk and provide a safe public environment.
- B. DPW follows the standards established in the 2010 ADA Standards and California Title 24, which identifies a ¼ inch or greater displacement or gap as a defect subject to repair to comply with accessibility guidelines and regulations. The typical process to repair a sidewalk defect is the removal and replacement of the sidewalk as specified in the City's Standard Specifications (Section 204).
- C. DPW will continue to monitor the condition of the City's sidewalks and require defects to be repaired either by the City for City-owned sidewalks or by the fronting property owners. Public Works Code Section 706 makes it the duty and responsibility of the property owners to maintain sidewalk in front of and adjacent to their properties in good repair and condition.
- D. Reducing cracking will improve safety for all pedestrians, including those in wheelchairs, and those who use walkers, canes, and scooters; and parents with strollers.

## III. GUIDELINES:



- A. New reinforced concrete sidewalk shall be constructed in accordance with the SFDPW Standard Plan 96,608 and the SFDPW Standard Specification Section 204 with #3 steel reinforced bars at mid-depth of the concrete sidewalk slab.
- B. The requirement for reinforcement in new concrete sidewalk shall be effective upon the adoption of this DPW Order. Reinforcement shall be required for new sidewalk on a diagonal to all re-entrant corners (property corners, curb ramps, pull boxes, etc.).
- C. Permits issued after the adoption of this DPW Order shall be constructed per the new DPW Steel Reinforced Bars for Sidewalk Construction Standard Plan, File No. 96,608.
- D. City construction contracts advertised after the adoption of this DPW Order shall be constructed per the new DPW Steel Reinforced Bars for Sidewalk Construction Standard Plan, File No. 96,608.
- E. A minimum 2 inch distance is required from the edges of the reinforcement to a construction joint for adequate protection.
- F. Steel reinforcement bars shall have a minimum 3 foot bar length with a 3 inch on center spacing. At locations where the bar length is restricted, a 2 foot bar length is acceptable with the approval of the Engineer.

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