



Edwin M. Lee, Mayor
Mohammed Nuru, Director

Patrick Rivera, Division Manager

DPW Order No: 181305

ESTABLISHING PROCEDURES AND GUIDELINES FOR THE CONSTRUCTION AND MAINTENANCE OF REINFORCED CONCRETE BUS PADS IN THE PUBLIC RIGHT-OF-WAY.

I. PURPOSE: To establish procedures for the construction and maintenance of reinforced concrete bus pads within the public right-of-way to reduce and mitigate the cracks and damage occurring in new concrete.

II. GENERAL INFORMATION:

- A. Cracks and damage in concrete pavement, including parking strips and bus pads, occur as a result of shrinkage, settlement, uplift, excessive weight atop the slab, etc. When the existing concrete pavement develops gaps, cracks, chips, displacement, holes, or other defects, permanent repairs or replacement of the concrete pavement shall be required in order to maintain defect-free pavement and provide a safe public environment.
- B. Reinforcement shall be used in concrete bus pads to control cracks, damage, and to produce aggregate interlock. This helps to keep the cracked sections of a slab close together so the slab will act as a unit and transfer loads across a crack.
- C. Reducing cracking will improve safety for all types of traffic; including pedestrians, cars, transit, bicycles, etc.

III. GUIDELINES:

- A. The requirement for reinforced concrete bus pads shall be effective upon the adoption of this DPW Order. Reinforcing shall be required for new concrete bus pads and the reinforcing shall continue into the new concrete curb where there is a combined concrete curb and bus pad.
- B. Permits issued after the adoption of this DPW Order shall be constructed per the new DPW Reinforced Concrete Bus Pad Standard, File No.96,607.
- C. City construction contracts advertised after the adoption of this DPW Order shall be constructed per the new DPW Reinforced Concrete Bus Pad Standard, File No. 96,607.




- D. Concrete bus pads shall be constructed at a minimum thickness of 10 to 12 inches and shall be approximately 10-feet wide. The width of the bus pad may vary depending on the proximity to a traffic or bike lane. The bus pad shall extend the entire length of the bus zone.
- E. Transverse reinforcement shall consist of #5 bars spaced 18-inches on center and 4-inches minimum cover.
- F. Longitudinal reinforcement shall consist of #5 bars spaced 8-inches on center and 4-inches minimum cover.
- G. Minimum 2-inch cover is required from the edges of the reinforcement to the ends of the concrete slab for adequate protection of the reinforcement.
- H. Transverse score joints are to be placed 10-feet apart to control cracking.
- I. Construction of new reinforced concrete bus pads shall be constructed in accordance with the SFDPW Standard Plan 96,607 and the SFDPW Standard Specification Section 210 except that the concrete bus pad shall have a minimum compressive strength of 5,000 psi.

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Rivera, Patrick
Division Manager, IDC

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Deputy Director for Infrastructure and City En...

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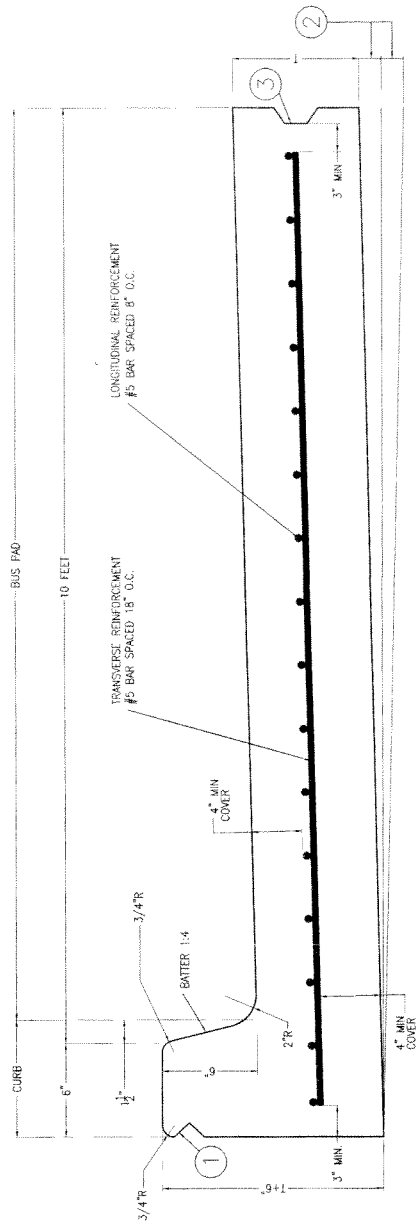
Nuru, Mohammed
Director, DPW



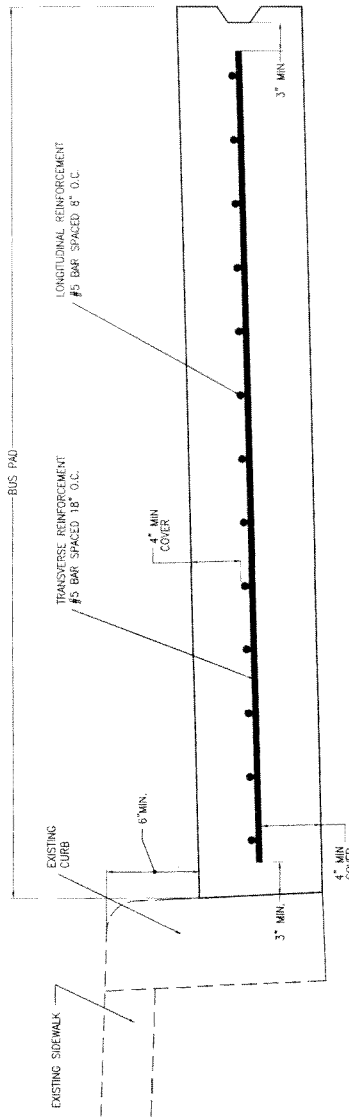
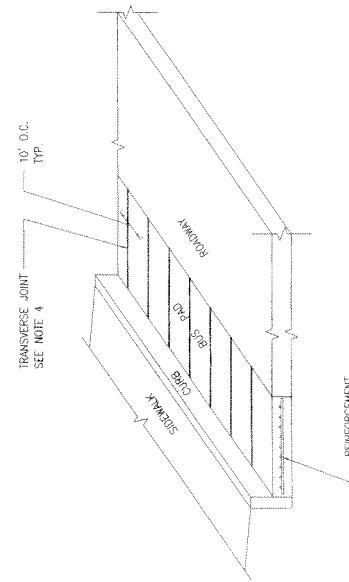
NOTES:

- ① LONGITUDINAL JOINTS FOR CONCRETE CURB SHALL BE AS SHOWN ON STANDARD PLAN 87.173
- ② SET TO FIT CROWN OR SUPERELEVATION OF ADJACENT ROADWAY
- ③ LONGITUDINAL JOINT NOT REQUIRED FOR AGGREGATE BASE OR ASPHALT CONCRETE BASE. LONGITUDINAL JOINTS FOR CONCRETE BUS PAD SHALL BE AS SHOWN ON STANDARD PLAN 87.174
- ④ SEE STANDARD PLAN 87.174 FOR TRANSVERSE JOINT DETAIL

T = 10" MINIMUM THICKNESS
R = RADIUS




COMBINED 6-INCH CONCRETE CURB AND REINFORCED BUS PAD
(NOT TO SCALE)



REINFORCED CONCRETE BUS PAD
(NOT TO SCALE)

This Standard Plan was developed for use on public works projects in the City and County of San Francisco, and shall not be used without consulting a Registered Professional Engineer. The Department of Public Works reserves the right to make revisions to this Standard Plan at any time.

		INFRASTRUCTURE DIVISION DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF SAN FRANCISCO		REVISIONS NO. DATE DESCRIPTION BY DATE 1 05/20/13 2 05/20/13 3 05/20/13		PREPARED BY: EK CHECKED BY: EK DATE: 05/20/13		APPROVED BY: [Signature] SECTION MANAGER DATE: 5/16/13		STANDARD PLAN STREETS AND HIGHWAYS REINFORCED CONCRETE BUS PAD		DRAWING NO: NONE FILE NO: 96.607 REV NO:	
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Check with trailing '0' if you have latest revision.