

SECTION 32 17 53

ADJUSTMENT OF FRAMES AND CASTINGS

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This Section includes provisions for resetting existing and castings to finished grade after resurfacing work.

1.2 CITY-OWNED FRAMES AND CASTINGS

- A. City-owned street frames and castings are facilities of City departments, which include, but are not limited to, the following:
 - 1. Department of Public Works
 - 2. Department of Electricity
 - 3. Police Department
 - 4. Fire Department
 - 5. San Francisco Public Utility Commission
 - 6. Municipal Transportation Agency.
 - 7. Department of Technology

- B. Adjustment of City-owned frames and castings will be paid per the applicable bid items. If no such bid items exist, the Work is considered incidental to the reconstruction work.

1.3 NON-GOVERNMENTALLY-OWNED FRAMES AND CASTINGS

- A. Non-governmentally-owned include, but not limited to, the following companies:
 - 1. Pacific Gas and Electric Company
 - 2. AT&T
 - 3. Comcast
- B. All frames and castings shall be identified for the owners and made accessible immediately after paving operations.
- C. The Contractor shall notify utility companies of completion of asphalt paving work within one week.
- D. Copies of notifications to utility companies shall be submitted to the City Representative.

1.4 REFERENCE STANDARDS

- A. DPW Standard Specifications (SSDPWSF), revised November, 2000.
- B. DPW Standard Plans, dated April, 2007.
- C. San Francisco Water Department Standard Drawings.

1.5 PERFORMANCE QUALITY CONTROL

- A. For San Francisco Water Department (SFWD) facilities, all adjusted or reconstructed valve box covers shall not rattle, and shall be flushed with the finished pavement grade. The valve box covers shall be free of excess asphalt or other material covering the perimeters of the covers. After the paving work, the Contractor shall check to make sure that valve box covers are easily removable from the valve box.

- B. The Contractor shall be fully liable for any accidents created by valve box covers installed by the Contractor until the installation is accepted by SFWD inspectors.
- C. The SFWD will remove the valve box covers and check the operability of the valve. The Contractor shall remove all materials that have fallen into the valve box due to the Contractor's operations, to the satisfaction of the SFWD inspector.

1.6 COST FOR PRIVATELY OWNED ITEMS

- A. The Contractor shall be responsible for negotiating an agreement for payment with the owner(s) of privately owned manhole covers, frames and castings to be adjusted to finished grades.

PART 2 - PRODUCTS

2.1 SFWD MATERIALS

- A. The SFWD will provide, at no cost to the Contractor, adjusting rings for resetting SFWD valve box covers, pipe risers and base plates for valve box reconstruction. The Contractor shall provide all other materials. After determining the quantities of each type of adjusting rings (1", 1-1/2", 2"), pipe risers and base plates, the Contractor shall make the material request to the SFWD inspector. The Contractor shall pick up the materials to be furnished by SFWD from the SFWD Yard per the quantities approved by the SFWD inspector.

PART 3 - EXECUTION

3.1 SPECIAL INSTRUCTIONS

- A. Existing SFWD and San Francisco Fire Department (SFFD) valves shall be made accessible at all times.

3.2 INSTALLATION

- A. Contractor shall adjust City-owned frames and castings no later than one week after completing asphalt paving work on a block or intersection.
- B. The final layer of asphalt concrete shall be placed around each City-owned casting no later than two (2) calendar days after said casting has been adjusted and concrete has been placed.
- C. The adjustment of manhole frames and other castings shall be in accordance with the requirements of Section 217 of the DPW Standard Specifications.

3.3 SFWD VALVE BOX COVERS ADJUSTMENT (6", 8", 12" AND 16")

- A. Before any asphalt concrete grinding operations, the Contractor shall identify all valve box covers by marking from nearby reference points like curbs, sidewalks, or other street furniture, but not by marking on the street surface to be grinded. SFWD inspectors will mark the locations of valve box covers that had been paved over. The Contractor shall pay special attention to all identified valve box covers during grinding to avoid damaging these SFWD facilities.
- B. Grinding machines will not be allowed to be closer than one foot from the edge of these covers. Asphalt concrete surrounding a valve box cover will be removed by hand.

- C. The Contractor shall reconstruct the surrounding asphalt concrete edge prior to resurfacing the rest of the asphalt concrete wearing surface.
- D. The Contractor shall take necessary precautions to prevent grindings or new asphalt from falling into SFWD valve boxes during these operations.
- E. Grinding the top of the valve box during the cold planing is absolutely prohibited.
- F. The Contractor shall reconstruct the valve box as described below under Article "SFWD valve box reconstruction", at the Contractor's cost if the valve box be ground at the top.
- G. The placement of steel rings on SFWD-owned castings will be performed during the paving operation, except when it is necessary to reconstruct as described below under Article "SFWD valve box reconstruction".
- H. A maximum of two (2) steel rings may be used for adjustment of SFWD castings to grade during paving operation. Any SFWD-owned casting, which cannot be satisfactorily adjusted by using no more than two (2) steel rings will require reconstruction as described below under Article "SFWD valve box reconstruction".

3.4 SFWD VALVE BOX RECONSTRUCTION (6", 8", 12" AND 16")

- A. During construction or repair of the concrete base, or when the cover adjustment cannot be done with two (2) rings, the Contractor shall remove valve box assemblies. The Contractor shall obtain from SFWD, materials for reconstructing the new valve box assemblies, including pipe risers and base plates. The Contractor shall cut the pipe to length according to field conditions, install the base plate, cover the plate with asphalt or concrete as appropriate, and set the pipe riser, ensuring that its cover is flush with the finished pavement grade.

3.5 SFWD CASTINGS LARGER THAN 16"

- A. The Contractor shall notify the SFWD inspector of any SFWD castings that are larger than 16", and submit proposed adjustment method for approval.

END OF SECTION