

SECTION C3

POST HYDRANTS

GENERAL

This section covers the installation of new hydrants and the resetting of existing hydrants.

Prior to putting any existing hydrant out of service for any reason, the Contractor shall notify the Fire Department in writing in accordance with City of Boston Fire Department requirements.

Hydrants which will be out of service for more than twenty-four (24) hours shall be replaced by temporary hydrants.

MATERIALS

Hydrants required to perform the work under this section shall be either existing hydrants (noted as "Reset Existing Hydrant" on plan) or new hydrants (noted as "Set Hydrant" on plan). The Commission shall supply new hydrants from its storage yard.

CONSTRUCTION METHODS

Where hydrants are specified to be reset the Contractor will test each hydrant to ensure that the hydrant functions and drains. The test will be done prior to deactivating the water main and in the presence of the Inspector or the Engineer. The Contractor shall immediately notify the Engineer if the hydrant is found to be defective.

Hydrants shall be set plumb with the steamer nozzle facing the roadway.

Hydrants shall be set with the center of the operating nut 18 inches back from the face of the curb.

Hydrants shall be set so that manufacturers "bury" mark or ground line is at finish grade. If there is no bury mark on the

hydrant, the bottom of the breakaway feature shall be set at a minimum of 3 inches and a maximum of 5 inches above finished grade.

The depth off bury shall be 5 ½ feet unless approved by the Commission.

Hydrants shall be set on a concrete base at least 12 inches square and 6 inches thick.

Hydrants shall be restrained in accordance with Section C-1, and by using mechanical joint follower glands, rods and clamps, thrust blocks or any combination thereof as required by the Engineer.

A drainage pit shall be excavated below and around each hydrant and backfilled to a height of at least six (6) inches above all drain ports with at least 1/2 cubic yard of 2 inch washed stone. This shall be covered with 4-mil thick plastic sheeting.

All hydrants to be reset, as noted on the contract drawings or directed by the Engineer, shall be removed in their entirety prior to resetting. Hydrants not reset in accordance with these specifications will not be eligible for payment.

Where existing hydrants are to be moved, or relocated the hydrant lateral shall be cut and capped at the main pipe in accordance with Commission standard details.

All work to reset existing hydrants shall be done in complete compliance with all the specifications contained herein for setting new hydrants.

MEASUREMENT AND PAYMENT

Item C3-1 Set or Reset Hydrant Each

The actual number of hydrants to be paid for under this item shall be the actual number obtained from the Commission's storeyard and installed in accordance with the plans and ordered by the Engineer plus the actual number of hydrants reset.

The unit price paid for hydrants shall include removal of existing hydrant, returning the removed hydrant to the

Commission's storage yard, cutting and capping old hydrant laterals where required obtaining from the Commission's storeyard and setting the new hydrant or resetting the existing hydrant, furnishing and placing drainage stone, testing the hydrant, all excavation and backfilling, furnishing and installing adequate thrust restraint and all other work for which there is no separate pay item.

Item C3-2 Set Bollard at Hydrant..... Each

The actual number of hydrant bollards to be paid for under this item shall be the actual number furnished and installed in accordance with the plans and ordered by the Engineer. The unit price shall include all labor, materials and equipment necessary to install new bollards in accordance with BWSC Standard Detail A-07e. Removal of any existing bollards shall be incidental to the appropriate items of the contract.

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