

ITEM 586.1800--25 - CORING HOLES IN EXISTING SUBSTRUCTURES

1. DESCRIPTION:

- 1.01 This work shall consist of coring vertical holes through the existing substructure at the location and of the diameter shown on the Contract Plans or as ordered by the Engineer. This work includes coring the hole, cleaning out the hole, disposing of removed material and backfilling the hole after pile driving.

2. MATERIALS:

- 2.01 Backfill the holes with concrete conforming to the requirements of Section 501 – Portland Cement Concrete – General, Class G.

3. CONSTRUCTION DETAILS:

- 3.01 Holes shall be cored through existing concrete, reinforcing steel and timber (if encountered). In order to preserve the integrity of the existing footing to remain, no other method of progressing the hole will be allowed, unless the Contractor can demonstrate his methods will not damage the existing substructure to remain.
- 3.02 The Contractor shall control his procedures and operations to prevent damage to the existing substructure which is to remain. Repair all damage at no cost to the Authority, as ordered by the Engineer.
- 3.03 Holes shall not be cored until the superstructure has been removed.
- 3.04 The allowable tolerance from plan location shall be three (3) inches. The tolerance from vertical shall be 2%.
- 3.05 The hole shall be cleaned out to the elevation shown on the Contract Plans, or to the elevation established by the Engineer. Dispose of removed material in accordance with Section 203.
- 3.06 Backfill the holes to the top of the existing concrete surface after the piles have been driven and accepted with Class G concrete placed in accordance with Section 555-3.05 – Depositing Structural Concrete Under Water.
- 3.07 The Contractor shall submit his equipment and procedures for coring the holes, including procedures to progress through timber, if encountered, to the Engineer for approval. The Engineer shall require five (5) working days to render a decision.

4. METHOD OF MEASUREMENT:

- 4.01 Measurement will be take as the number of acceptable holes cored through the substructure as detailed in the Contract Plans.

5. BASIS OF PAYMENT:

- 5.01 The unit price bid for each hole cored shall include the cost of all labor, materials and equipment necessary to satisfactorily complete the work including disposal of removed material and backfilling the hole after pile driving.