

ET 3710 - SLEEVING OF ROCK FILLED CAISSONS

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1. Description

This Specification shall cover the work required under the heading of Sleeving of Caisson as shown in Form B: Schedule of Unit Prices, and shall include the supply, storage, installation, removal and other items to sleeve a rock filled caisson. This would include the labor, materials and equipment necessary for sleeving, additional work related to vibration, additional handling of rock fill, sleeves for the caisson, additional dewatering and all other incidental items related to the caissons as shown on the drawings. The use of the steel sleeves will be at the discretion of the Contract Administrator.

The work to be performed by the Bidder shall include superintendence, labor, materials, and all other activities necessary for and incidental to the satisfactory performance and completion of all work as hereinafter specified.

2. Materials**2.1. General**

The Bidder shall be responsible for the supply, safe storage and handling of all materials set forth in this Specification required to complete the work.

3. Equipment

All equipment, implements, tools and facilities used for sleeving shall be of a size and type as required to complete the work in a reasonable time. The Bidder shall keep all equipment in good working order, and have sufficient equipment for replacement at all times, as required.

4. Construction Methods

Cave-ins of the shaft walls shall not be permitted and sleeves can be used as approved by the Contract Administrator. The steel sleeve(s) shall be placed into the caisson hole to stop sloughing soils and to ensure a stable shaft for rock placement. The equipment and method used shall be typical for this type of work and shall be completed in a safe manner that meets all required safety codes. The construction of the rockfill caissons and all other components shall have the shape and dimensions as shown on the drawings in Appendix A and final approval of the above will be provided by the Contract Administrator.

The Contractor will not be compensated for drilling oversized shafts to accommodate sleeving of caissons. Sleeving shall remain in shafts until rockfill is placed and compacted. Casings shall be removed by slow even lifting after placement of rockfill to prevent development of voids in the caisson walls.

The contractor shall take necessary measures to minimize inflow of water into the caisson shafts. Sediment laden water pumped from the caisson shafts shall not be released directly into the river and shall be disposed of in accordance with applicable by-laws and regulations.

5. Quality Control

All workmanship and materials furnished and supplied under this Specification will be subject to inspection by the Contract Administrator, including all operations from the selection and production of materials through the final acceptance of the specific work. The Bidder shall be responsible for the control of all operations to complete the work, except the inspections or approvals that have been previously given.

The Contract Administrator shall have full access for inspection and control of testing of

materials at the site to determine whether the materials are being selected and placed or work being conducted in accordance with this Specification.

6. Method of Measurement

The Caisson Sleeving measurement will be based on number of caissons sleeved, visual observations, surveying measurement or any other method deemed acceptable by the Contract Administrator to determine the quantities supplied and placed in accordance with this Specification.

7. Basis of Payment

The Caisson Sleeving will be paid for at the Contract Unit Sum Price as shown in Form B: Schedule of Unit Prices, which price shall be paid in full for each steel sleeve used and approved by the Contract Administrator.