

Special Specification 4163

Dolphins and Fender Systems Repair



1. DESCRIPTION

Repair 10-pile dolphins and fender systems as shown in the contract plans.

2. MATERIALS

Furnish materials in accordance with the details shown on the plans.

Furnish new materials. Ensure all materials and construction methods conform to the details shown on the plans and the requirements of this item. Materials may be referenced by the following list of standards.

2.1. ASTM International (ASTM):

- A153, Zinc Coating (Hot Dip) on Iron and Steel,
- A325, High-strength Bolts for Structure Steel joints,
- F738M, Stainless Steel Bolts,
- RR-C-271F Chain and Attachments, Carbon and Alloy Steel,
- A449, Quenched and Tempered Steel Bolts and studs, and

2.1.1. **Anchor Bolts, Nuts and Washers.** Meet the requirements of ASTM A325 or ASTM A449, size per manufacturer's recommendations and will be galvanized in accordance with ASTM A153.

2.1.2. **Wire rope.** Provide .75 in diameter wire rope cable for the dolphins that is galvanized 6 x 7 improved plow steel, right regular lay with fiber core (natural or synthetic). Supply 5/16 in x 5 in galvanized wire staples. Supply all other hardware, cable clamps, bolts, etc., which will also be galvanized, necessary to complete the work.

3. EQUIPMENT

Provide equipment necessary to complete the work. Operate all water-going vessels, barges, etc. in accordance with United States Coast Guard regulations.

4. WORK METHODS

Follow work methods show herein unless otherwise shown on the plans.

Remove fender from Dolphin. Lower four (4) timber hardware will be replaced. New bolts will be used to rehang fender on Dolphins.

Remove existing wire rope from the dolphin. Re-bolt and rewrap with new wire rope as shown in the plans.

5. MEASUREMENT

This Item will be measured as Lump Sum.

6. PAYMENT

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Dolphins and Fender Systems Repair." This price is full compensation for removing fender from Dolphin, replacing lower four (4) timber hardware, re-hanging fender on Dolphins, removal of wire rope, re-bolting and rewinding with wire rope on each 10-pile dolphin, compensation for all labor, machining, realignment and re-striking of piles, equipment, furnishing, installation, and incidentals.