ITEM #0601251A – REPAIR TO EXISTING PIERS

Description: Work under this item shall consist of placing concrete on pier caps and abutment seats and will include surface cleaning and preparation and installation of stainless steel anchors and placement of reinforcement.

Materials: Concrete for this work shall be Class "S" Concrete. Concrete materials for this work shall conform to the requirements of Article M.03.01 and Contract Special Provisions. Uncoated welded wire fabric (reinforcement) for this work shall conform to the requirements of Article M.06.01.

Stainless Steel Helical Anchors

Provide small-diameter, helical stainless steel (Type 304, minimum) anchors for positive attachment of the concrete to the existing substructure. Select an anchor with a minimum length of 4 inches and a minimum diameter of 1/4" (6 mm).

One of the following products or an approved equal may be used:

Spira-Lok by Blok-Lok (A Hohmann & Barnard Company), Woodbridge, ON 905 266-2277

PatchPin by Helifix (A division of Halfen USA Inc.), Converse, TX 888 992-9989

Construction Methods: Blast clean the surface of the existing pier and abutment caps, removing all loose material. Drain any standing water and plug the existing drain pipes at their outlets with plastic caps, securing in place.

Holes for stainless steel helical anchors shall be drilled into the existing concrete a sufficient depth to allow half the anchor length to extend into the new concrete.

Secure the welded wire fabric to the stainless steel helical anchors and place new concrete to provide a minimum 1 inch cover and slope to drain.

If any existing cap reinforcement is exposed during the cleaning of the caps, clean and prepare the reinforcement before placing new concrete.

Submit construction procedures to the Engineer for approval, detailing the repair process and procedures.

Submit repair materials to be used in accordance with Section 1.05.02.

Provide scaffolding and/or means of access that meets the requirements of the Traffic plans and Traffic special provisions.

Method of Measurement: This work shall be measured for payment by the actual volume of cubic feet of "Repair to Existing Piers", completed and accepted by the Engineer.

Basis of Payment: This work will be paid for at the contract unit price, per cubic foot, for "Repair to Existing Piers", complete in place, which price shall include reinforcement, any scaffolding and equipment necessary to allow for proper access to, and to facilitate the construction of, the concrete caps, and all materials, equipment, tools, labor and work incidental thereto.

Pay Item	Pay Unit
Repair to Existing Piers	c.f.