

## **DEMOLITION AND REMOVAL**

---

### **1. GENERAL**

#### **1.1 Work Included**

- .1 Demolition and removal work shall be undertaken generally in accordance with the Specifications and Drawings. The work shall include, but not necessarily be limited to the following:
  - .1 Removal of existing portion of concrete electrical duct bank connected to the concrete electrical manhole at the Deacon Booster Pumping Station; patching and making the opening through the existing concrete wall water tight.
  - .2 Coring through existing concrete for new electrical conduit installation.

#### **1.2 Protection**

- .1 Protect existing items designated to remain (e.g. existing portion of the chlorine conduit adjacent to the electrical manhole). In the event of damage, replace such items or make repairs to acceptance of Contract Administrator at no additional cost to the City.

### **2. PRODUCTS**

#### **2.1 Materials for patching opening through existing wall**

- .1 Concrete: conforming to Section 03300.
- .2 Reinforcing bars: conforming to Section 03200.
- .3 Insulation: to match existing and conforming to Section 07210, perimeter insulation.
- .4 Dampproofing: to match existing.
- .5 Expansive waterstop: conforming to Section 03250.

#### **2.2 Materials for patching cored openings through concrete walls**

- .1 Refer to Section 16111 – Conduits, Conduit Fastenings and Conduit Fittings.

### **3. EXECUTION**

#### **3.1 Preparation**

- .1 Inspect site prior to demolition and verify with Contract Administrator, items designated for removal, items to be preserved, and items to be protected.
- .2 Excavate as required and in accordance with Section 02223 – Excavation and Backfilling for Structures.

## **DEMOLITION AND REMOVAL**

---

### **3.2 Removal**

- .1 Remove items indicated.
- .2 Do not disturb adjacent items and those designated to remain in place.

### **3.3 Coring**

- .1 Core holes through walls for electrical conduit. Coordinate with Division 16 - Electrical for correct locations and sizes.
- .2 Reinforcing bars are to be located with an appropriate metal detector and cores located so as to avoid cutting reinforcing bars.
- .3 Coring is to be done to neat lines perpendicular to the surface and to depths required.

### **3.4 Disposal of Material**

- .1 Dispose of demolition materials (i.e. concrete rubble, etc.) off-site at an acceptable disposal site.

### **3.5 Restoration**

- .1 Upon completion of removal and patching work, remove debris, trim surfaces, and leave work areas clean.
- .2 Reinstate areas and existing works outside areas of demolition to match condition of adjacent, undisturbed areas. Provide new materials for restoration.
- .3 Fill in existing opening through the concrete wall as shown on the Drawings including preparation and cleaning of concrete surfaces, drilling and grouting reinforcing bars, installation of expansive water stop, casting concrete, applying dampproofing, and insulation.
- .4 Backfill in accordance with Section 02223 – Excavation and Backfilling for Structures.

**END OF SECTION**