

**Part 1            General**

**1.1                SUMMARY**

- .1        Section Includes:
  - .1            Methods and requirements for cleaning, deepening and excavating water channels.

**1.2                RELATED SECTIONS**

- .1        Section 01 35 43 - Environmental Procedures.
- .2        Section 01 52 00 - Construction Facilities.
- .3        Section 01 35 29.06 - Health and Safety Requirements.
- .4        Section 31 23 33.01 Excavating, Trenching and Backfilling.

**1.3                MEASUREMENT PROCEDURES**

- .1        Cleaning and deepening of existing channels will be measured in metres of channel along the centreline.

**1.4                DEFINITIONS**

- .1        Rock Excavation:
  - .1            Material excavated from solid masses of igneous, sedimentary or metamorphic rock which, prior to its removal, was integral with its parent mass.
  - .2            Boulders or rock fragments having individual volume in excess of 1 m<sup>3</sup>.
- .2        Common excavation: materials of whatever nature, which are not included under definition of rock excavation, including dense tills, hard pan, frozen materials and partially cemented materials which can be ripped and excavated with heavy construction equipment. Unclassified excavation: deposits of whatever character encountered in Work.

**1.5                SUBMITTALS**

- .1        Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2        Submit to Departmental Representative following information for channel excavation operation:
  - .1            Description of process to be implemented including, but not limited to, site plan and available equipment specifications.
  - .2            Detailed operating procedures for proposed excavation method.
  - .3            Detailed operating procedures for proposed dewatering method.
  - .4            Detailed description and specifications for environmental controls including, but not limited to, control of sediment migration.

**1.6                QUALITY ASSURANCE**

- .1        Health and Safety:

- .1 Do construction occupational health and safety in accordance with Section 01 35 29.06 - Health and Safety Requirements.

## **1.7 DELIVERY, STORAGE AND HANDLING**

- .1 Environmental Protection:
  - .1 Provide erosion and sediment control measures to prevent migration of suspended sediments in downstream areas and erosion of on-site soils/sediments during the execution of the work as per requirements of Section 01 35 43 - Environmental Procedures.
- .2 Waste Management and Disposal:
  - .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal.
  - .2 Collect and separate for disposal paper plastic polystyrene corrugated cardboard packaging material for recycling in accordance with Waste Management Plan.
  - .3 Divert rock materials requiring disposal from dump site to local quarry as directed by Departmental Representative.

## **Part 2 Products**

### **2.1 MATERIALS**

- .1 Not Used.

## **Part 3 Execution**

### **3.1 EXCAVATION**

- .1 Excavate new channels to design lines, grades and cross sections as indicated.
- .2 Deepen existing channels to design lines, grades and cross sections as indicated.
- .3 Confirm existing grades and adjust excavation quantities as necessary to produce desired channel configuration.
- .4 Stockpile fill material at on-site staging area as directed by Departmental Representative.
  - .1 Provide adequate silt control as provided for in Section 01 35 43 - Environmental Procedures.
- .5 Do not place excavated materials adjacent to channel in manner that will impede flow of surface water from adjacent land, or cause instability of channel banks.
- .6 Upon completion of excavation, clean and trim site.
  - .1 Reinstate disturbed areas immediately after completion of grading as directed by Departmental Representative.
- .7 Dispose of excavated materials:

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- .1 The excavated material must be transported to the designated disposal site for excavated material indicated on drawings and levelled as indicated and at the satisfaction of the departmental representative.

**END OF SECTION**