

**Part 1            General**

**1.1                RELATED REQUIREMENTS**

- .1        Section 01 35 43, Environmental procedures.
- .2        Section 01 74 21, Construction – Demolition waste management and disposal.
- .3        Section 03 30 00.01, Cast-in-place concrete short form.

**1.2                SITE CONDITIONS**

- .1        The Contractor shall become familiar with the existing site conditions including access restriction to the work zones.

**1.3                PROTECTION OF EXISTING STRUCTURES**

- .1        The Contractor shall protect existing structures that must remain in place and the materials identified for salvage. If damaged, notify the Departmental Representative and repair or replace immediately at own cost.

**1.4                DELIVERY, STORAGE AND HANDLING**

- .1        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.

**Part 2            Products**

**2.1                EQUIPMENT**

- .1        Leave equipment and machinery running only while in use, except where extreme temperatures prohibit shutting down.
- .2        Contractor to demonstrate that tools, equipment and machinery used will carry out the work within schedule and that they will contribute to preserve the structures / features that remain intact.

**Part 3            Execution**

**3.1                PREPARATION**

- .1        Do Work in accordance with Section 01 35 29.06 - Health and Safety Requirements and 01 35 43 - Environmental procedures.
- .2        Protection:
  - .1        Prevent movement, settlement, or damage to adjacent structures, utilities and parts of work to remain in place.

- .2 Keep noise and dust to minimum.
- .3 Protect building systems, services and equipment.
- .4 Provide temporary dust screens, covers, railings, supports and other protection as required.
- .3 De-energize the electrical systems located within the work area before beginning work. Implement the mandatory lockout procedure.
- .4 Locate and protect utility lines crossing the Work zone.

### **3.2 DEMOLITION – GENERAL**

- .1 The information concerning the existing structures or elements is not exhaustive and will therefore need to be completed on site.
- .2 No compensation will be paid for demolition beyond the boundaries indicated on the drawings or required by the Departmental Representative.
- .3 Remove all demolition materials to elevations and dimensions shown and indicated on the drawings.

### **3.3 PARTIAL DEMOLITION OF THE CONCRETE DECK**

- .1 Two (2) weeks before the start of the demolition work, the Contractor shall provide the Departmental Representative with the work method he intends to use.
- .2 The demolition method chosen by the Contractor shall not damage or weaken any part of the slab sections to be preserved.
- .3 The demolition equipment chosen by the Contractor shall in no way affect the stability and structural integrity of the concrete deck.
- .4 The concrete surfaces to be demolished as shown on the drawings are approximate. The exact location and extent of the demolition work will be determined on site by the Departmental Representative.
- .5 The Contractor shall make a 25 mm deep sawcut around the edge of the demolition area.
- .6 The Contractor shall demolish the concrete to a minimum depth as indicated on the drawings or as required by the Departmental Representative.
- .7 In the process, the Contractor may encounter reinforcing steel in the concrete. No additional money will be paid for reinforcing steel occurrences in the concrete. The following measures must be taken:
  - .1 The Contractor shall at all times take precautions to avoid damaging the rebars to be preserved.
  - .2 Reinforcing steel sufficiently weakened by corrosion should be replaced as directed by the Departmental Representative.
  - .3 Contractor to remove concrete at least 25 mm behind existing steel bars when more than half the circumference of the steel reinforcement becomes exposed during demolition of the concrete.

- .4 The demolished surface must be cleaned using a jet of pressurized air so that dust and debris are completely removed.

### **3.4 CLEANING AND RESTORATION**

- .1 Keep site clean and organized throughout demolition procedure.
- .2 Upon completion of project, reinstate areas affected by Work to condition which existed prior to beginning of Work or match condition of adjacent, undisturbed areas.

**END OF SECTION**