

**Part 1 General**

**1.1 RELATED REQUIREMENTS**

- .1 Section 01 35 43 - Environmental Procedures.
- .2 Section 01 35 29– Health and Safety Requirements

**1.2 REFERENCES**

- .1 Reference Standards:
  - .1 CSA International
    - .1 CSA S350-M1980 (R2013), Code of Practice for Safety in Demolition of Structures.
  - .2 Department of Justice Canada (Jus)
    - .1 Canadian Environmental Assessment Act (CEAA), 2012.
    - .2 Canadian Environmental Protection Act (CEPA), 1999.
  - .3 U.S. Environmental Protection Agency (EPA)
    - .1 EPA CFR 86.098-11, Emission standards for 1998 and later model year diesel heavy-duty engines and vehicles.
    - .2 EPA 832/R-92-005, Storm Water Management for Construction Activities: Developing Pollution Prevention Plans and Best Management Practices.

**1.3 ADMINISTRATIVE REQUIREMENTS**

- .1 Pre-Installation Meetings:
  - .1 Convene pre-installation meeting 1 week prior to beginning work of this Section on-site installation, with Contractor's Representative, Departmental Representative to:
    - .1 Verify project requirements.
    - .2 Verify existing site conditions adjacent to demolition work.
    - .3 Co-ordination with other construction sub trades.

**1.4 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Shop Drawings:
  - .1 Submit for review and approval demolition drawings, diagrams or details showing sequence of demolition work and supporting structures and underpinning.
  - .2 Submit demolition drawings stamped and signed by professional engineer registered or licensed in the Province of New Brunswick.

## **1.5 QUALITY ASSURANCE**

- .1 Regulatory Requirements: Ensure Work is performed in compliance with CEPA, CEAA, applicable Provincial/Territorial and Municipal regulations.

## **1.6 SITE CONDITIONS**

- .1 Environmental protection:
  - .1 Ensure Work is done in accordance with Section 01 35 43 - Environmental Procedures.
  - .2 Ensure Work does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution.
  - .3 Fires and burning of waste or materials is not permitted on site.
  - .4 Do not bury rubbish waste materials.
  - .5 Do not dispose of waste or volatile materials including but not limited to: mineral spirits, oil, petroleum based lubricants, or toxic cleaning solutions into watercourses, storm or sanitary sewers.
    - .1 Ensure proper disposal procedures are maintained throughout project.
  - .6 Do not pump water containing suspended materials into watercourses, storm or sanitary sewers, or onto adjacent properties.
  - .7 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with authorities having jurisdiction as directed by Departmental Representative.
  - .8 Protect trees, plants and foliage on site and adjacent properties where indicated.
  - .9 Prevent extraneous materials from contaminating air beyond application area, by providing temporary enclosures during demolition work.
  - .10 Cover or wet down dry materials and waste to prevent blowing dust and debris. Control dust on all temporary roads.

## **1.7 EXISTING CONDITIONS**

- .1 Structures to be demolished are based on their condition on date that tender is accepted, at time of examination prior to tendering.

## **Part 2 Products**

### **2.1 EQUIPMENT**

- .1 Equipment and heavy machinery to meet or exceed all applicable emission requirements.
  - .1 Leave machinery running only while in use, except where extreme temperatures prohibit shutting machinery down.

- .2 Plywood:
  - .1 CSA O151 (CSP), CANPLY Grade SHG; un-sanded, exterior use, minimum 19 mm thick.
- .3 Lumber: NLGA Standard Grading Rules for Canadian Lumber.
  - .1 CSA O141. Softwood, SPF species, Grade 2.

## **Part 3 Execution**

### **3.1 PREPARATION**

- .1 Protection of in-place conditions:
  - .1 Prevent movement, settlement or damage of adjacent structures, services, walks, paving, trees, landscaping, adjacent grades properties parts of existing building to remain.
    - .1 Provide bracing, shoring and underpinning as required.
    - .2 Repair damage caused by demolition as directed by Departmental Representative.
  - .2 Support affected structures and, if safety of structure being demolished adjacent structures or services appears to be endangered, take preventative measures, stop Work and immediately notify Departmental Representative.
  - .3 Prevent debris from blocking surface drainage system, elevators, mechanical and electrical systems which must remain in operation.
- .2 Surface Preparation:
  - .1 Disconnect and re-route electrical and telephone service lines entering the buildings area to be demolished.
    - .1 Post warning signs on electrical lines and equipment which must remain energized to serve other properties during period of demolition.
  - .2 Disconnect and cap designated mechanical services.
    - .1 Sewer and water lines: remove to property line as directed by Departmental Representative.
  - .3 Do not disrupt active or energized utilities traversing premises designated to remain undisturbed.

### **3.2 DEMOLITION**

- .1 Blasting operations not permitted during demolition.
- .2 Demolish parts of structure as indicated.
- .3 Demolish foundation walls and footings, and concrete floors on grade within areas of new construction.

- .4 Use as backfill in open excavations provided voids are filled. Remove from open excavations pieces of concrete and masonry not larger than 75 mm broken from demolition work.
  - .1 Keep demolition fill 100 mm below finished grade level.
- .5 Remove existing equipment, services, and obstacles where required for refinishing or making good of existing surfaces, and replace as work progresses.
- .6 At end of each day's work, leave Work in safe and stable condition.
  - .1 Protect interiors of parts not to be demolished from exterior elements at all times.
- .7 Demolish to minimize dusting. Keep materials wetted as directed by Departmental Representative.

### **3.3 CLEANING**

- .1 Divert excess materials from landfill to site approved by the Departmental Representative

**END OF SECTION**