

1 GENERAL

1.01 RELATED REQUIREMENTS

- .1 Section 05 50 00 – Metal Fabrications.
- .2 Section 09 30 13 – Ceramic Tiling.
- .3 Division 26 – Electrical.

1.02 REFERENCE STANDARDS

- .1 Canadian Council of Ministers of the Environment (CCME)
  - .1 PN 1326-July 2005, Environmental Code of Practice for aboveground and underground tank systems containing petroleum products and allied petroleum products.
- .2 Canadian Standards Association (CSA International)
  - .1 CSA S350-M1980(R2003), Code of Practice for Safety in Demolition of Structures.
- .3 National Research Council Canada (NRC)
  - .1 National Building Code of Canada 2015 (NBC).
  - .2 National Fire Code of Canada 2015 (NFC).

1.03 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Shop Drawings:
  - .1 Provide shop drawings and product data in accordance with Section 01 33 00 - Submittal Procedures.
  - .2 Submit drawings stamped and signed by professional engineer registered or licensed in province of Nova Scotia, Canada.
- .3 Before proceeding with demolition of load-bearing walls, and where required by authority having jurisdiction, submit for review by Departmental Representative shoring and underpinning drawings prepared by qualified professional engineer registered or licensed in the province of Nova Scotia in Canada, showing proposed method.
- .4 Prior to beginning of Work on site submit detailed Waste Reduction Workplan in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal, and indicate:
  - .1 Descriptions of and anticipated quantities, in percentages, of materials to be salvaged reused, recycled and landfilled.
  - .2 Schedule of selective demolition.
  - .3 Number and location of dumpsters.
  - .4 Anticipated frequency of tipping.
  - .5 Name and address of haulers and waste facilities.
- .5 Pre-Installation Meeting(s):
  - .1 Prior to start of work, arrange for site visit with Departmental Representative to examine existing site conditions adjacent to demolition work.
  - .2 Hold project meetings every month.

- .3 Ensure that key personnel, site supervisor, project manager, and subcontractor representatives attend.

#### 1.04 DELIVERY, STORAGE AND HANDLING

- .1 Waste Management and Disposal:
  - .2 Separate waste materials for reuse and recycling, in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

#### 1.05 QUALITY ASSURANCE

- .1 Regulatory Requirements: Ensure that work is performed in compliance with applicable provincial and municipal regulations.

#### 1.06 SITE CONDITIONS

- .1 Environmental Protection:
  - .1 Ensure that re that work is done in accordance with Section 01 35 43 – Environmental Procedures.
  - .2 Ensure that demolition 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 or storm or sanitary sewers.
  - .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.
  - .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.
- .2 Existing Conditions:
  - .1 Review designated substance report and take precautions to protect the environment.
  - .2 Should material resembling spray- or trowel-applied asbestos or other designated substance listed as hazardous be encountered, stop work, take preventative measure, and notify Departmental Representative immediately.
    - .1 Do not proceed until written instructions have been received from the Departmental Representative.
  - .3 Notify the Departmental Representative before disrupting building access or services.
  - .4 Structures to be demolished to be based on their condition on the date that the tender is accepted.
    - .1 Remove, protect, and store salvaged items as directed by the Departmental Representative.
    - .2 List of items to be salvaged for reuse:
      - .1 Pool-Access Ladders.

- .2 Pool-Access Stair.
- .3 Diving Blocks.
- .4 Lane Ropes.
- .5 Solar Blanket.
- .6 Pace Clock.
- .7 Pool Vacuum.
- .8 Ventilation Grilles.

## 2 PRODUCTS

### 2.01 EQUIPMENT

- .1 Leave equipment and machinery running only while in use, except where extreme temperatures prohibit shutting down.
- .2 Demonstrate that tools and machinery are being used in a manner that allows for salvage of materials in best condition possible.

## 3 EXECUTION

### 3.01 PREPARATION

- .1 Do Work in accordance with Section 01 35 29.06 - Health and Safety Requirements.
- .2 Protection:
  - .1 Prevent movement, settlement, or damage to adjacent structures, utilities, and parts of building to remain in place. Provide bracing underpinning, and shoring required. Repair damage caused by demolition, as directed by the Departmental Representative.
  - .2 Keep noise, dust, and inconvenience to occupants to minimum.
  - .3 Protect building systems, services and equipment.
  - .4 Provide temporary dust screens, covers, railings, supports and other protection as required.
  - .5 Employ rodent and vermin exterminators to comply with health and environmental regulations.
  - .6 Prevent dust contamination of existing ductwork to remain, and of return-air plenum spaces.
- .3 Disconnect and re-route electrical, telephone and communication service lines. Post warning signs on electrical lines and equipment that must remain energized to serve other products during period of demolition.
- .4 Locate and protect utility lines. Do not disrupt active or energized utilities traversing premises, designated to remain undisturbed.
- .5 Disconnect and cap designated mechanical services.
  - .1 Sewer and water lines: Remove in accordance with requirements of authority having jurisdiction and as directed by Departmental Representative.
  - .2 Other underground services: Remove and dispose of as indicated and as directed by Departmental Representative.

### 3.02 SAFETY CODE

- .1 Do demolition work in accordance with Section 01 56 00 – Temporary Barriers and Enclosures.
- .2 Blasting operations are not permitted during demolition.

### 3.03 DEMOLITION, SALVAGE AND DISPOSAL

- .1 Remove parts of existing building to permit new construction. Sort materials into appropriate piles for reuse and recycling.
- .2 Refer to demolition drawings and specifications for items to be salvaged for reuse.
- .3 Remove items to be reused, store as directed by Departmental Representative, and re-install under appropriate section of specifications.
- .4 Trim edges of partially demolished building elements to tolerances as defined by Departmental Representative, to suit future use.
- .5 Dispose of removed materials, to appropriate recycling facilities or reuse facilities, except where specified otherwise, in accordance with authority having jurisdiction.
- .6 Crush concrete generated due to demolition of slabs/foundation, to a size suitable for recycling, as directed, or in pieces not larger than 1.22 m x 1.22 m.
- .7 Remove existing equipment, services, and obstacles where required for refinishing or making good of existing surfaces, and replace as work progresses.
- .8 At the end of each day's work, leave work in a safe and stable condition.
- .9 Demolish to minimize dusting. Keep materials wetted.
- .10 Remove structural concrete in accordance with Structural Drawings.
- .11 Contain fibrous materials (e.g. Insulation) to minimize the release of airborne fibres, while being transported within the facility.
- .12 Do not dispose of materials in landfill or waste stream destined for landfill.
- .13 Remove and dispose of demolished materials except where noted otherwise, and in accordance with authorities having jurisdiction.
- .14 Remove the following materials and equipment, and store in location(s) designated by the Departmental Representative:
  - .1 Pool Access Ladder.
  - .2 Diving Blocks.
  - .3 Lane Ropes.
  - .4 Solar Blanket.
  - .5 Pace Clock.
  - .6 Pool Vacuum.
  - .7 Ventilation Grilles.
- .15 Review existing structures, interior surfaces, underground and site infrastructure to determine

affected areas.

- .16 Remove, cut, and prepare concrete as required for building-services penetrations and tie-ins.
- .17 Relocate and/or remove interior, mechanical/electrical fittings and equipment as required.
- .18 Demolish openings as noted. Provide lintels as required.
- .19 Remove existing cast-in-place concrete floor slabs and walls, as noted on Drawings.
- .20 Demolish concrete and masonry as noted and as required for mechanical and electrical works. Remove abandoned piping and prepare for infill.
- .21 Remove noted fixtures and fittings.
- .22 Remove designated plumbing items as specified and as noted on drawings, and as required for execution of work.

### 3.04 STOCKPILING

- .1 Label stockpiles, indicating material type and quantity.
- .2 Designate appropriate security resources/measures to prevent vandalism, damage and theft.
- .3 Locate stockpiled materials convenient for use in new construction. Eliminate double handling wherever possible.
- .4 Stockpile materials designated for alternate disposal in location which facilitates removal from site and examination by potential end markets, and which does not impede disassembly, processing, or hauling procedures.

### 3.05 REMOVAL FROM SITE

- .1 Transport material designated for alternate disposal to approved facilities listed in waste-reduction workplan, and in accordance with applicable regulations. Do not deviate from facilities listed in waste reduction workplan without prior written authorization from Departmental Representative.
- .2 Dispose of materials not designated for alternate disposal, in accordance with applicable regulations. Disposal facilities must be approved of and listed in waste-reduction workplan. Do not deviate from disposal facilities listed in waste-reduction workplan, without prior written authorization from Departmental Representative.
- .3 Remove and dispose of demolished materials daily, except where noted otherwise, and in accordance with authorities having jurisdiction.
- .4 Remove contaminated and dangerous materials as defined by authorities having jurisdiction, relating to environmental protection, from site and dispose of in a safe manner, to minimize danger at the site or during disposal.

### 3.06 CLEANING AND RESTORATION

- .1 Keep site clean and organized throughout demolition procedure.

- .2 Upon completion of project, reinstate areas and walkways affected by Work to the condition that existed prior to beginning of Work.

END OF SECTION