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**Decommissioning, Demolition and Site Restoration SSB HQ**  
**Southside Road, St. John's, NL**  
**Project No. R.111146.001**

2020/12/01

Section 02 41 16 - Structure Demolition

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**PART 1**      **GENERAL**

**1.1**      **SECTION INCLUDES**

- .1      Methods and procedures for demolition of structures, parts of structures, basements and foundation walls and includes abandonment and removal of tanks containing petroleum products.

**1.2**      **RELATED SECTIONS**

- .1      Section 01 11 00 – Summary of Work
- .2      Section 01 35 29.06 - Health and Safety Requirements
- .3      Section 01 35 43 - Environmental Procedures
- .4      Section 01 52 00 – Construction Facilities
- .5      Section 01 56 00 - Temporary Barriers and Enclosures
- .6      Section 01 74 21 – Construction/Demolition Waste Management and Disposal

**1.3**      **REFERENCES**

- .1      Codes and standards referenced in this section refer to the latest edition thereof.
- .2      Canadian Standards Association (CSA).
  - .1      CSA S350, Code of Practice for Safety in Demolition of Structures.
  - .2      Government of Newfoundland and Labrador Regulations.
- .3      Local Municipal Regulations in place at time of demolition.

**1.4**      **QUALITY ASSURANCE**

- .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 as a minimum.
- .3      Ensure key personnel, site supervisor, project manager, subcontractor representatives, attend.

**1.5**      **WASTE MANAGEMENT AND DISPOSAL**

- .1      Separate waste materials in accordance with Section 01 74 21 – Construction/Demolition Waste Management and Disposal.

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**1.6 EXISTING CONDITIONS**

- .1 As noted in the reports attached to the specifications, asbestos containing materials are present at this site, and are to be removed by the Contractor, prior to initiating building demolition activities. The Contractor is also referenced to the attached reports regarding the removal and disposal of potential PCB containing fluorescent light ballasts in accordance with the applicable regulations governing the handling, transportation and disposal of PCBs. Mould and lead paint are also present throughout, which requires special handling and disposal (refer to other specification sections for requirements). There are also mercury containing fluorescent tubes, HID lightbulbs, thermostats, lead acid batteries, ODS/Halocarbon containing equipment, ASTs and other materials at this site that are to be removed.
- .2 Structure to be demolished to be based on their condition on date that tender is accepted.
- .3 Salvage items as identified by Departmental Representative. Remove, protect and store salvaged items as directed by Departmental Representative. Deliver to Departmental Representative as directed.

**1.7 DEMOLITION DRAWINGS**

- .1 Where required by authorities having jurisdiction, submit for approval drawings, diagrams or details showing sequence of demolition work and supporting structures and underpinning.
- .2 Submit drawings stamped and signed by qualified professional engineer registered or licensed in Province of Newfoundland and Labrador, Canada.

**1.8 ENVIRONMENTAL PROTECTION**

- .1 Ensure work is done in accordance with Section 01 35 43 – Environmental Procedures.
- .2 Prevent movement, settlement or damage of adjacent structures, services, walks, paving, trees and landscaping.
- .3 Support affected structures and, if safety of structure being demolished or adjacent structures or services appears to be endangered cease operations and notify Departmental Representative.
- .4 Prevent debris from blocking surface drainage system.
- .5 Ensure that demolition work does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution.
- .6 Fires and burning of waste or materials is not permitted on site.
- .7 Do not bury waste or materials on site.

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- .8 Do not dispose of waste or volatile materials such as mineral spirits, oil, petroleum based lubricants, or toxic cleaning solutions into watercourses, storm or sanitary sewers. Ensure proper disposal procedures are maintained throughout project.
- .9 Do not pump water containing suspended materials into watercourses, storm or sanitary sewers, or onto adjacent properties.
- .10 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with local authorities' requirements.
- .11 Protect trees, plants and foliage on site and adjacent properties where indicated.
- .12 Prevent extraneous materials from contaminating air beyond application area, by providing temporary enclosures during demolition work.
- .13 Cover or wet down dry materials and waste to prevent blowing dust and debris. Control dust on all temporary roads.

**1.9 SCHEDULING**

- .1 Ensure project time lines are met without compromising specified minimum rates of material diversion. Notify Departmental Representative in writing of delays.

**PART 2 PRODUCTS (NOT APPLICABLE)**

**PART 3 EXECUTION**

**3.1 PREPARATION**

- .1 Do work in accordance with 01 35 29.06 – Health and Safety Requirements.
- .2 Disconnect electrical and telephone service lines entering buildings to be demolished. Post warning signs on electrical lines and equipment which must remain energized to serve other properties during period of demolition.
- .3 Disconnect and cap designated mechanical services.
  - .1 Sewer and water lines: remove to City mains and cap unless otherwise directed by Departmental Representative..
  - .2 Other underground services: remove and dispose of as directed by Departmental Representative.
- .4 Do not disrupt active or energized utilities designated to remain undisturbed.
- .5 Remove rodent and vermin as required by Departmental Representative.

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**3.2 SAFETY CODE**

- .1 Do demolition work in accordance with Section 01 56 00 – Temporary Barriers and Enclosures and all municipal/provincial/federal OHS regulations.

**3.3 DEMOLITION**

- .1 Completely remove foundation walls, concrete block walls/brick, floor slabs, interior partitions/columns, roofing and all building infrastructure components. Piles and foundations are to be extracted in their entirety. Choose appropriate equipment for this purpose particularly as it relates to piles that are socketed (refer to appendices for as-built conditions showing pile construction).
- .2 Concrete and masonry associated with demolition work is not to be used as backfill. Clean backfill will be required, as noted on the drawings.
- .3 At end of each day's work, leave Work in safe and stable condition.
- .4 Demolish to minimize dusting. Keep materials wetted as directed by Departmental Representative to prevent the release of potential crystalline silica into the air.
- .5 Contain all fibrous materials (e.g. Insulation) to minimize release of airborne fiber while being transported to waste disposal site or alternative disposal location.
- .6 Only dispose of material specified by selected alternative disposal option as directed by Departmental Representative.
- .7 Ensure that hazardous materials will not be disposed of in landfill or waste stream destined for landfill.
- .8 Remove and dispose of demolished materials except where noted otherwise and in accordance with authorities having jurisdiction.
- .9 Environmental:
  - .1 Remove contaminated or dangerous materials as defined by authorities having jurisdiction, relating to environmental protection, from site and dispose of in safe manner to minimized danger at site or during disposal.
- .10 Prior to the start of any demolition work remove contaminated or hazardous materials as defined by authorities having jurisdiction, from site and dispose of at designated disposal facilities.
- .11 Use natural lighting to work by wherever possible. Shut off all lighting except those required for security purposes at the end of each day.
- .12 Mechanical:
  - .1 Excavate site services, isolate and provide caps, thrust blocks, isolating valves and markers as per contract drawings.

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- .2 Remove and dispose of all plumbing, drainage and waste piping and fixtures within the buildings. Cap any sanitary drains encountered during demolition activities, or any sanitary lines identified by the Departmental Representative.
  - .3 Remove and dispose of all heating equipment, piping and radiators within the buildings.
  - .4 Remove and dispose of all sprinkler piping, pump and hose stations within the building (including sprinkler water which is to be assumed as being contaminated).
  - .5 Remove and dispose of any fans, ductwork, grilles, and accessory equipment within the buildings.
  - .6 Remove and dispose of all controls and accessories within the building.
  - .7 Remove and dispose of all gas cylinders within the buildings. Disposal to be conducted as per the latest guidelines and regulations.
  - .8 Remove refrigerants potentially containing ozone depleting substances as required by Governing Authorities, prior to removal/disposal of equipment. See Appendix D for forms.
  - .9 Remove and dispose of bell house fittings with interior lead linings and send to an approved waste site or recycling facility, if appropriate.
- .13 Electrical:
- .1 General:
    - .1 Coordinate demolition drawings with all other drawings.
    - .2 Visit site to determine exact extent of demolition work. Report discrepancies to Departmental Representative.
    - .3 Locate all existing underground conduit and cabling.
    - .4 Coordinate all required work on-site with the Departmental Representative and with work of other trades.
    - .5 Do not scale from the drawings.
    - .6 Departmental Representative reserves the first right of refusal in ownership of any equipment items and materials to be removed from the building and the site.
  - .2 Disconnect Power:
    - .1 Disconnect power to all electrical equipment before commencing any demolition.
    - .2 Arrange and pay for electrical utility to disconnect electrical service to building and remove primary service equipment.
  - 3. Equipment Removal:
    - .1 Comply with general specification and Department of Work Services and Transportation specifications for electrical demolition and removal of electrical equipment from site.

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- .2 Disconnect and remove all electrical equipment including but not limited to electrical service, ground wires and ground rods, electrical wiring and conduit, electrical devices, junction boxes, panel boards, switches, lighting fixtures including brackets stems, hangers and other accessories, heaters and associated controls, underground cabling and conduit, transfer switches/generators (which the Departmental Representative may want salvaged) including wiring and controls, motors and associated wiring, conduit and controls, communications wiring and conduit, data wiring and conduit, telephone wiring and conduit, life safety systems including emergency lighting, exit lights, fire alarm system and devices, security and entrance control equipment, wiring and conduit, public address equipment, wiring and conduit, exterior lighting standards including bases, wiring and conduit and exterior lighting equipment.

4. Standards:

- .1 Perform all work in accordance with the Canadian Electrical Code (CEC) and other applicable municipal, provincial and national codes.

**3.4 STOCKPILING**

- .1 Stockpile materials in a location as directed by Departmental Representative.
- .2 Designate appropriate security resources/measures to prevent vandalism, damage and theft.
- .3 Supply separate, clearly-marked disposal bins for all categories of waste material. Do not remove bins from site until inspected and approved by Departmental Representative.
- .4 Provide collection areas for collection of miscellaneous metals in the area of demolition.

**3.5 REMOVAL FROM SITE**

- .1 Notify Departmental Representative in writing of any materials identified as not suitable for alternate disposal. Provide reasons prior to approval for disposal.
- .2 Dispose of materials as directed by Departmental Representative.
- .3 Remove stockpiled material as directed by Departmental Representative when it interferes with operations of project construction.
- .4 Remove stockpiles of like materials by an alternate disposal option once collection of materials is complete.
- .5 Transport material designated for alternate disposal in accordance with applicable regulations.
- .6 Dispose of materials not designated for alternate disposal in accordance with applicable regulations.

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**3.6**

**COORDINATION**

- .1 Coordinate alternative disposal activities with Departmental Representative's on site waste diversion representative.

**END OF SECTION**