

## PART 1 - GENERAL

### **1 General**

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| <u>1.1 SECTION INCLUDES</u>              | .1 | Selected demolition and removal of building material.                                                                                                                                        |
|                                          | .2 | Cutting and patching of existing building as required for work.                                                                                                                              |
| <u>1.2 RELATED WORK</u>                  | .1 | Waste Management: Section 01 10 10.                                                                                                                                                          |
|                                          | .2 | Cleaning: Section 01 10 10.                                                                                                                                                                  |
| <u>1.3 REFERENCES</u>                    | .1 | Canadian Standards Association (CSA International)                                                                                                                                           |
|                                          | .1 | CSA S350-M1980(R1998), Code of Practice for Safety in Demolition of Structures.                                                                                                              |
|                                          | .2 | National Building code 2010, Part B, Safety Measures at Construction and Demolition Sites.                                                                                                   |
|                                          | .3 | Newfoundland and Labrador Occupational health & Safety Act, Regulations.                                                                                                                     |
| <u>1.4 EXAMINATION</u>                   | .1 | Carefully examine the site and contract documents to determine the nature and extent of work.                                                                                                |
| <u>1.5 SUBMITTALS</u>                    | .1 | Submit shop drawings in accordance with Sections 01 33 00 - Submittal Procedures.                                                                                                            |
| <u>1.6 WASTE MANAGEMENT AND DISPOSAL</u> | .1 | Material and equipment removed and not specifically designated to be reinstalled or turned over to Departmental Representative becomes the property of the Contractor for disposal off site. |
|                                          | .2 | Dispose of debris, waste, and equipment in accordance with section 01 10 10 and in accordance with Municipal and Provincial Regulations.                                                     |
|                                          | .3 | Do not encumber the site with stockpiled waste and debris. Keep work and occupied areas clean at all times.                                                                                  |
| <u>1.7 SITE CONDITIONS</u>               | .1 | Review "AMEC Asbestos Management Plan" referenced in Appendix A, and "AAFC Asbestos Report for Building 25" referenced in Appendix B.                                                        |
|                                          | .2 | Should material resembling spray or trowel-applied asbestos or other designated substance listed as                                                                                          |

hazardous be encountered, stop work, take preventative measures, and notify Departmental Representative Engineer Consultant immediately.

- .1 Do not proceed until written instructions have been received from Departmental Representative Engineer Consultant.
- .2 Notify Project Manager before disrupting building access or services. Schedule all disruptions of building services with Construction Manager.
- .3 All pipe insulation, drywall, concrete, concrete masonry contain asbestos and silica and therefore all demolition will be done using hazardous materials procedures according to the Newfoundland and Labrador Health & Safety Act and Regulations and Government of Canada Standards. Follow Safe Work Practices for:
  - .1 Asbestos Containing Drywall Removal.
  - .2 Openings in Asbestos Containing Drywall.
  - .3 Asbestos Containing Materials.
  - .3 Drilling in Concrete.
  - .4 Concrete Core Drilling.
  - .5 Speed Tile Removal.
  - .6 Speed Tile Wall Cutting.
  - .7 Concrete Slab Cutting.
  - .7 Floor Scraping and grinding.
  - .8 Mould Removal.

#### 1.8 PROTECTION

- .1 Erect and maintain dustproof partitions and drop sheets where indicated as well as for all situations where:
  - .1 Demolition work is carried out;
  - .2 Cutting and boring of existing construction is performed
  - .3 Work operations creating dust and dirt.
- .2 Provide fans or other ventilation devices when work generates fumes or strong odours.
- .3 Prevent dirt, dust, debris from entering mechanical ductwork and equipment, plumbing fixtures and piping, electrical conduit, boxes and panels.

#### 1.9 QUALITY ASSURANCE

- .1 Demolition trade contractor qualifications: company or persons specializing in selective demolition and removals including hazardous materials including asbestos, silica and mould with a minimum of 5 years documented experience.
- .2 Concrete coring and saw cutting trade contractor qualifications: company or persons specializing in coring and saw cutting concrete and removal of waste

with a minimum of 5 years documented experience.

## PART 2 - PRODUCTS

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| <u>2.1 MATERIALS</u> | .1 | Supply all materials necessary and required to carry out the work of this Section. |
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## PART 3 - EXECUTION

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| <u>3.1 PREPARATION GENERAL</u> | .1 | Inspect project area with Departmental Representative and verify extent and location items designated for removal, disposal, alternative disposal, recycling, salvage and items to remain. Confirm extent of mechanical and electrical demolition performed by others and removal of that waste by the work of this section. |
|                                | .2 | Locate and protect services. Preserve active services traversing work area in operating condition.                                                                                                                                                                                                                           |
|                                | .3 | Schedule all demolition, concrete cutting and removals with Departmental Representative before starting demolition.                                                                                                                                                                                                          |
|                                | .4 | Disconnect, cap, plug or divert, as required, existing services within the work area where they interfere with the execution of the work. Advise of such with Departmental Representative before starting work.                                                                                                              |
|                                | .5 | All pipe insulation, drywall compound and tape, and other items noted in the Asbestos Reports (Appendices A & B) contain asbestos and therefore all demolition will be done using hazardous materials procedures according to the Newfoundland and Labrador Health & Safety Act and Regulations.                             |
|                                | .6 | All concrete, concrete masonry contain silica and therefore all demolition will be done using hazardous materials procedures according to the Newfoundland and Labrador Health & Safety Act and Regulations.                                                                                                                 |
|                                | .7 | Should any other material (not otherwise indicated in the Asbestos Reports or noted here) resembling spray or trowel-applied asbestos or other designated substance listed as hazardous and be encountered, stop work, take preventative measures, and notify Departmental Representative.                                   |
|                                | .1 | Do not proceed until written instructions have been received from Departmental Representative.                                                                                                                                                                                                                               |

3.2 DEMOLITION AND  
GENERAL REMOVALS

- .1 Remove all items indicated on drawings and as required to complete the work.
- .2 Perform work by selective and systematic demolition process, being careful not to cause excessive damage to adjacent surfaces and finishes.
- .3 Remove parts of existing wall finishes and items indicated. Sort materials into appropriate piles for reuse and recycling and remove from site.
- .4 Conduct demolition work in conformance with:
  - .1 National Building Code 2010 - Part B;
  - .2 CSA S350-M1980 (R2003), Code of Practice for Safety in Demolition of Structures and;
  - .3 Occupational Health and Safety requirements specified in section 01 35 29.
- .5 Prevent movement, settlement or other damage to adjacent structure, utilities and parts of building to remain in place. Provide temporary bracing when required.
- .6 Protect adjacent finishes, building services and office furnishings during work.
- .7 Use work methods which minimizes the creation of dust.
- .8 Remove parts of existing building components as required to permit new work. Reinstall thereafter.
- .9 Where the work of this contract requires the removal or installation of equipment or service runs inside building walls or above ceilings, be responsible for cutting and removing the building fabric as necessary. Upon completion of new work and all connections made, restore disturbed surfaces to match their original condition.

3.3 REMOVAL OF  
ITEMS FOR  
REINSTALLATION

- .1 Refer to demolition drawings for items to be salvaged for reuse. Carefully remove items designated to be turned over to Departmental Representative or to be reinstalled and store in locations as directed by the Departmental Representative.
- .2 Damage to these items, resulting from removal or reinstallation, shall be made good at the Contractor's expense. The decision as to whether damaged items may be repaired or must be replaced with new material shall be the Departmental Representative's decision.

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| <u>3.4 CORE DRILLING<br/>AND SAW CUTTING</u>    | .1 | Provide openings through existing walls, floors and ceilings as required for installation of services.                                                                                                                                                                                                        |
|                                                 | .2 | Repair adjacent surfaces marred by work. Fill-in openings which are cut larger than required. Use fire stopping material in fire rated assembly as per clause below.                                                                                                                                          |
|                                                 | .3 | Perform coring, saw cutting and waste removal following established procedures and in accordance with the equipment manufacturer's written instructions. Follow all safety procedures. Remove concrete waste and slurry from the site and dispose of in accordance with Municipal and Provincial Regulations. |
|                                                 | .4 | Perform all coring and saw cutting during "After Hours" due to disruptive nature of this work.                                                                                                                                                                                                                |
| <u>3.5 SERVICE LINES</u>                        | .1 | Remove electrical or other services found abandoned and encountered in work.<br>.1 Removal of these services shall in no way interfere with Facility's existing operational services to remain.                                                                                                               |
|                                                 | .2 | Protect power, telephone, communication services and plumbing lines traversing premises of work area.<br>.1 Obtain Departmental Representative's approval before disconnecting and rerouting service lines which interfere with new work.                                                                     |
| <u>3.6 PROTECTION OF<br/>SURFACES TO REMAIN</u> | .1 | Carefully protect all existing structures, finishes and materials that are to remain from damage during removal work and make good at own expense any damage thereto.                                                                                                                                         |
|                                                 | .2 | Prevent movement, or damage to adjacent walls which are to remain in place.                                                                                                                                                                                                                                   |
|                                                 | .3 | Keep noise, dust, and inconvenience to occupants to minimum. Noisy activities must be scheduled.                                                                                                                                                                                                              |
|                                                 | .4 | Protect building systems, services and equipment. Confirm services which penetrate walls are adequately supported prior to demolishing walls. Advise Construction Manager if additional support may be required.                                                                                              |
|                                                 | .5 | Provide temporary dust screens, covers, railings, supports and other protection as required.                                                                                                                                                                                                                  |
|                                                 | .6 | Do Work in accordance with Sections 01 10 10 and 01 35 29.                                                                                                                                                                                                                                                    |

- .7 Prevent dirt, dust, debris from entering mechanical ductwork and equipment, plumbing fixtures and piping, electrical conduit, boxes and panels.

### 3.7 GENERAL PATCHING

- .1 Patch existing building construction and finishes where affected by:
  - .1 Demolition and removal work;
  - .2 Cutting and boring of openings to install mechanical, electrical or other services;
  - .3 Contractor's work operations and activities in the course of performing the Work.
- .2 Use same material and finish to match existing.
- .3 Patch all holes, cracks, spalls, dents and scratches in finish walls and ceilings.
- .4 Patchwork to be flush with existing surfaces, feathered out and be inconspicuous in final finish work.
- .5 Repair and restore existing plaster and gypsum board walls and ceilings damaged by demolition and by installation of new work.
  - .1 Patch and infill all holes and openings.
  - .2 Use hardcoat plaster complete with appropriate backup material for plaster repairs.
  - .3 Tape and finish gypsum board surfaces and joints.
  - .4 Install patchwork flush and blended with adjacent surfaces. Match texture and finish with existing finishes. Completed patchwork to be inconspicuous when painted.
- .6 See clause on cutting and patching specified Section 01 10 10 which also apply to the work of this Section.
- .7 Paint surfaces patched.

### 3.8 FIRESTOPPING

- .1 Evaluate in conjunction with Departmental Representative each location where new service lines are being installed through existing walls and floors to determine whether such assemblies are fire rated and require fire stopping and smoke seals.
- .2 Supply and install fire stopping material around conduit, pipes, sleeves, etc. installed in holes and openings cut through existing fire-rated walls, floors and ceiling construction.
- .3 Provide ULC labelled fire stopping material rated same as the building fire assembly being penetrated and filled. See Section 07 84 00.

- 3.9 CLEANING
- .1 Prior to reinstallation of existing materials or equipment, thoroughly clean those areas of items which may be inaccessible after installation.
  - .2 After installation, give all reinstalled items a thorough cleaning.

END OF SECTION