

Part 1 General

1.1 RELATED SECTIONS

- .1 Section 07 84 00 – Firestopping.

1.2 REFERENCES

- .1 American Society for Testing and Materials (ASTM).
 - .1 ASTM E1971-05, Standard Guide for Stewardship for the Cleaning of Commercial and Institutional Buildings.
- .2 National Building Code of Canada, 2005 (NBCC)
 - .1 NBCC Division B Part 8, Safety Measures at Construction and Demolition Sites.
- .3 Canadian Federal Legislation.
 - .1 Canadian Environmental Protection Act (CEPA), 1999, updated 2011.
 - .2 Canadian Environmental Assessment Act (CEAA), 1992, updated 2010.
 - .3 Transportation of Dangerous Goods Act (TDGA), 1992, updated 2011.
 - .4 Motor Vehicle Safety Act (MVSA), 1993, updated 2010.

1.3 SUBMITTALS

- .1 Submit written request to Contract Administrator in advance of cutting or alteration which affects the following:
 - .1 Structural integrity of any element of project.
 - .2 Integrity of weather-exposed or moisture-resistant elements.
 - .3 Efficiency, maintenance, or safety of any operational element.
 - .4 Visual qualities of sight-exposed elements.
- .2 Include in above request the following:
 - .1 Identification of Project.
 - .2 Location and description of affected work.
 - .3 Statement on necessity for cutting or alteration
 - .4 Description of proposed work, and products to be used.
 - .5 Date and time work will be executed.

1.4 QUALITY ASSURANCE

- .1 Regulatory Requirements.
 - .1 Perform work in compliance with CEPA, CEAA, TDGA, MVSA, and all applicable Federal, Provincial, and local regulations.
 - .2 Comply with Workplace Safety and Health Act, Workplace Safety Regulation, Manitoba with regards to health and safety of persons on site, safety of property on site and for protection of persons adjacent to site and environment to extent that they may be affected by conduct of work.

1.5 SITE CONDITIONS

- .1 Existing Services.
 - .1 Before commencing work, establish location and extent of service lines in area of work. Be absolutely certain of their origin and destination.
 - .2 Where unknown services are encountered, immediately advise Contract Administrator and confirm findings in writing.
 - .3 Do not, under any circumstances drill, cut or chase openings of any description in any part of existing building structure, without written approval from Contract Administrator. Contract Administrator will supervise any work of this type and will require X-ray inspection of structure to be cut prior to drilling or cutting at Contractor's expense.
 - .4 Record locations of maintained, rerouted and abandoned service lines on project record documents in accordance with section 01 78 00.

- .2 Existing Hazardous Materials.
 - .1 Removal and handling of hazardous materials is to be preformed only by persons trained in methods, procedures and industry practices for safe handling and removal of hazardous materials and in accordance with Provincial guidelines.
 - .2 Asbestos: should any unidentified or unforeseen disturbance of materials resembling asbestos-containing or contaminated materials be encountered in course of work, stop work immediately, take preventative measures, and notify Contract Administrator.
 - .3 Polychlorinated Biphenyls (PCB's): fluorescent light fixtures scheduled for demolition within work area may contain PCB light ballasts. Be familiar with procedures concerning handling and storage of PCB materials, and as outlined in latest edition of "Handbook on PCB's in Electrical Equipment" as prepared by Environment Canada.
 - .4 Mould: should any unidentified or unforeseen mould contaminated materials be encountered during course of work, stop work immediately and notify Contract Administrator.

1.6 SCHEDULING

- .1 Coordinate demolition and removal of debris to ensure minimal disruption to existing building activities.
- .2 Execute work with least possible interference, inconvenience or disturbance to occupants, public and normal use or premises. Keep noise and dust to minimum.
- .3 Use only spark proof tools and equipment where explosive fumes may exist either from demolition work, renovation work, or existing operations.

Part 2 Products

Part 3 Execution

3.1 PREPARATION

- .1 Inspect and photograph existing conditions, including elements subject to damage or movement during demolition. Conduct a condition survey of existing building structures and services to remain before commencing demolition.
- .2 Utilize dustproof rigid hording and temporary partitions to fully isolate the demolition work from existing occupied areas. Maintain until such work is complete. Contractor will be responsible for any and all contamination to occupied areas outside of the demolition area.
- .3 Take precautions to prevent dust from triggering fire alarm smoke detectors and plugging ducts and filters. If necessary, arrange for temporary shutdown of this equipment. Contractor will be responsible for all damages.
- .4 Provide and maintain temporary fire protection equipment during performance of work required by and governing codes, regulations and bylaws.
- .5 Prior to start of any demolition ensure contaminated or hazardous materials have been removed from site and dispose of at designated disposal facilities in safe manner and in accordance with TDGA.
- .6 Disconnect electrical and data service lines entering areas to be demolished. Coordinate and schedule disconnects with Contract Administrator. Post warning signs on electrical lines and equipment which must remain energized during period of demolition.
- .7 Remove and store all accessible acoustic ceiling tiles which are affected by work.
 - .1 Prior to removal, vacuum clean ceiling tiles as noted to minimize airborne dust.
 - .2 Reinstall ceiling tiles when work necessitating removal has been completed.
 - .3 Replace damage product.

3.2 DEMOLITION

- .1 Demolish parts of existing building as indicated to permit construction of renovations.
- .2 Execute work by methods to avoid damage to other work, and which will provide proper surfaces to receive patching and finishing.
- .3 Cut rigid materials using masonry saw or core drill. Pneumatic or impact tools not allowed without prior approval of Contract Administrator.

3.3 REPAIR/RESTORATION

- .1 Where penetrations through existing walls or floors result from removal or relocation of existing services or equipment, repair to standard of construction of surrounding material except where otherwise indicated.
- .2 Fit work to pipes, sleeves, ducts, conduit and other penetrations through surfaces.
- .3 Conceal pipes, ducts and wiring in floor, wall and ceiling construction of finished areas except where otherwise indicated.
- .4 Install firestopping and/or restore integrity of existing fire separations in accordance with Section 07 84 00.
- .5 Patch holes (abandoned and not required for future services) in existing walls, floor and roofs resulting from demolition and removal of mechanical pipes and or ducts and electrical services.

3.4 CLEANING AND WASTE MANAGEMENT

- .1 Comply with requirements of Section 01 74 00.
- .2 Maintain progressive cleaning of work site and surrounding areas during demolition. Comply with Provincial and local fire and safety laws, ordinances, codes, and regulations.
- .3 Vacuum clean interior areas prior to start of finishing work, and maintain areas free of dust and other contaminants during finishing operations. Continue vacuum cleaning on an as-needed basis until renovations are ready for occupancy.
- .4 When work is substantially performed, remove remaining waste materials, tools, equipment, machinery and surplus materials not required for performance of remaining work.
- .5 Provide final cleaning in accordance with Section 01 74 00 and ASTM E1971 and leave work clean and suitable for occupancy.

3.5 PROTECTION

- .1 Conduct demolition operations to prevent injury to occupants and damage to adjacent occupied areas. Ensure safe passage of people around demolition area.
- .2 At end of each day's work, leave work in safe and stable condition so that no part is in danger of toppling or falling.
- .3 Where security within existing building has been reduced by demolition work, provide temporary means to maintain security acceptable to Contract Administrator.

END OF SECTION