

PART 1 GENERAL

1.1 COORDINATION AND COOPERATION

1. OTHER TRADES

1. Further to C6.1, Specifications shall be read by all trades to acquaint them with the nature of the Work required. Failure to do so will not relieve them of any responsibilities for cooperation in coordinating the Work and preventing delay and for the supply and installation of materials required for this Work.

1.2 CUTTING AND PATCHING

1. Each trade shall do all necessary cutting and patching required for their Work. Existing adjacent surfaces shall be accurately matched. Cutting through any structural member shall only be done with the prior written approval of the Contract Administrator.
2. Perform all cutting and patching required, making all parts of the Work to be assembled properly.

PART 2 PRODUCTS

2.1 MATERIALS

1. C.S.A.

1. All materials, where applicable, shall be CSA approved.

2.2 SUBMITTALS

1. SHOP DRAWINGS

1. Further to C6.10, the Contractor shall submit for approval, five (5) sets of detailed shop drawings for all Work as requested by the Contract Administrator at the initial site meeting and as required thereafter.

2.3 QUALITY CONTROL

1. INSPECTING AND TESTING MATERIAL

- .1 The City reserves the right to inspect and test all materials at its own expense and to reject any materials, which are not in accordance with the requirements of the specifications. The Contractor shall furnish, at the Contractor's expense, such specimens and samples of materials as may be required for testing.
2. The Contractor shall allow the City to test any equipment, and shall provide power, fuel or material required for these standard performance tests on the equipment.

2.4 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

1. SITE PROTECTION

- .1 The Contractor shall provide adequate protection to prevent any damage to existing structures, furnishings, finishes, etc. during construction. Temporary ramps, barricades, hoardings as required shall be provided to the approval of the Contract Administrator.
- .2 The Contractor shall exercise care in the operations relative to the Site. Any unnecessary destruction of the Site will not be permitted. The Contractor shall exercise care in the movement of equipment and materials especially during regular business hours. The Contractor shall be held responsible for the repair of damages to the Site, boulevards, roads, other pavements, etc. in the surrounding area of the immediate Site.

2. LAYOUT OF WORK

- .1 The Contractor shall verify all dimensions on the drawings and report any discrepancies to the Contract Administrator before starting the Work.

3. EXISTING SERVICES AND UTILITIES

- .1 Further to C3.1 of the General Conditions, it shall be the responsibility of the Contractor to verify the location of all existing utilities, pipes and other objects and, if encountered, to adequately protect them during the construction period. Contractor to replace or reset to their original position any item disturbed or damaged after construction is completed at no cost to the City of Winnipeg.
- .2 Contractor to notify the Contract Administrator 24 hours prior to any disconnecting or shutting down any service, which may affect the building occupants.

4. TEMPORARY HEATING

- .1 The 2 existing roof top HVAC units provide heating and air conditioning to the second floor of the building only.
- .2 Contractor is responsible to provide temporary heat for the entire building during construction, to maintain 20°C space temperature, until Substantial Performance is met.

PART 3 EXECUTION

3.1 PROJECT INFORMATION SIGNS

1. SIGNS

- .1 No project information signs shall be allowed without the written approval of the Contract Administrator. Any project information signs approved

during construction are to be removed by the Contractor upon completion of the project.

3.2 REQUIREMENTS FOR SUBSTANTIAL PERFORMANCE

1. OPERATIONS, MAINTENANCE AND INSTRUCTION MANUALS

- .1 The Contractor shall provide the Contract Administrator with four copies of all manuals showing:
 - .1 Service Instruction - including a list of spare parts and replacement parts and the full names, addresses and contact information of all equipment suppliers.
 - .2 Installation Instructions.
 - .3 Maintenance Instructions.
 - .4 Operating Instructions.
 - .5 Electrical and Mechanical Schematics.
- .2 Detailed electrical and electronic circuit diagrams (wiring and schematic) showing all wiring connections; all electrical component values; all component parts manufacturers; and servicing procedure for all electrical and electronic equipment utilized to approval of the City. Substantial Performance of the equipment is contingent on the provision of the above information.

2. APPLICATION FOR SUBSTANTIAL PERFORMANCE

- .1 Prior to application for Certificate of Substantial Performance, carefully inspect the Work and ensure it is complete and construction deficiencies have been corrected. Notify Contract Administrator in writing of satisfactory completion of inspection and request a Contract Administrator inspection.
- .2 During Contract Administrators inspection a list of deficiencies and defects will be tabulated. Contractor to correct deficiencies, as soon as possible and request a re-inspection once completed.
- .3 Contractor to apply for Certificate of Substantial Performance, once the deficiencies have been corrected.

PART 1 GENERAL

1.1 REQUIREMENTS INCLUDED

1. Coordinate the Work of all Sub-trades.

1.2 DESCRIPTION

1. Coordinate submittals, use of Site, temporary utilities, construction facilities and use of service elevator.

1.3 EXISTING CONDITIONS

1. The operation of this facility is to remain uninterrupted during the duration of this project. The Contractor is to minimize interference to the staff of this building on all floors.
2. All procedures affecting existing building operation or building occupants must be coordinated with the Contract Administrator prior to work being done.
3. Construction hours of work shall be approved by the Contract Administrator to minimize disturbance to building occupants.
4. Power actuated fastening devices or other noise generating equipment shall not be used without approval of the Contract Administrator. Some work may be required to be completed outside of regular office hours.
5. Only the service elevator identified by the Contract Administrator shall be used for the transporting of equipment and materials to and from the work area. The Contractor shall take precautions to protect the elevator used during the progress of the Work.
6. The Contractor shall repair any damage done to the elevator or building structure caused during the construction use at his expense.

PART 1 GENERAL

1.1 SECTION INCLUDES

1. Requirements and limitations for cutting and patching the Work.

1.2 RELATED SECTIONS

1. Individual Sections: cutting and patching incidental to work of the section.

PART 2 PRODUCTS

2.1 SUBMITTALS

1. Submit written request in advance of cutting or alteration which affects:
 - .1 Structural integrity of any element of the structure.
 - .2 Integrity of weather-exposed or moisture resistant elements.
 - .3 Efficiency, maintenance, or safety of any operational component.
 - .4 Visual qualities of sight-exposed elements.
2. Include in request:
 - .1 Project identification
 - .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 Alternatives other than cutting.
 - .6 Resultant effect of proposed Work to the City.
 - .7 Date and time requested work is to be executed.

PART 3 EXECUTION

3.1 GENERAL

1. Execute cutting, fitting and patching to complete the Work.
2. Fit the parts together, to integrate with other Work.
3. Uncover work to install ill-timed work at Contractors expense.
4. Remove and replace defective and non-conforming work to Contract Administrators approval.

5. Provide openings for penetrations of mechanical, electrical or other Work.

4.1 **INSPECTION**

1. Inspect existing conditions, including elements subject to damage or movement during cutting and patching.
2. After uncovering, inspect conditions affecting performance of Work.
3. Beginning of cutting or patching means acceptance of existing conditions.

5.1 **PREPARATION**

1. Provide supports to assure structural integrity of surroundings; devices and methods to protect other portions of project from damage.
2. Protect any areas from the elements, which may be exposed by uncovering work.
3. Conduct Work to minimize the interference and disturbance of occupants in the existing facility.

6.1 **PERFORMANCE**

1. Execute Work by methods to avoid damage to other work and to provide proper surfaces to receive patching and finishing.
2. Employ original installer to perform cutting and patching for weather-exposed and moisture-resistant elements and sight-exposed surfaces.
3. Cut rigid materials using masonry saw or core drill. Pneumatic or impact tools are not allowed without prior written approval from Contract Administrator.
4. Restore work with new products in accordance with requirements of Contract Documents.
5. Fit work airtight to pipes, sleeves, ducts, conduit and other penetrations through surfaces.
6. At penetration of fire-rated wall, ceiling or floor construction, completely seal voids with fire-rated material, full thickness of the construction element.
7. Refinish surfaces to match adjacent finishes: for continuous surfaces refinish to nearest intersection or as indicated on schedule and drawings; for equipment refinish entire unit.
8. Provide and install steel lintels for new openings in existing masonry construction.
9. Restore surfaces and finishes in areas of electrical and mechanical work to match surrounding substrate.