

1.1 SITE ACCESS AND PARKING

- .1 The Departmental Representative will designate Contractor's access to project site. Refer to Section 01 35 39 for security restrictions on parking & vehicle movements.
- .2 Parking facilities for equipment and workers will be provided at no cost in location(s) designated by the Departmental Representative and in accordance with requirements specified in Section 01 35 39.

1.2 BUILDING ACCESS

- .1 No building access will be provided for construction work on this project.
- .2 General Contractor to provide temporary man-lift to access the roof sections to be modified by this project. All man-lifts to be to the standards and requirements of the Federal Standards of Occupancy and Health, and to the local standards of the Occupancy and Health Provincial and Municipal requirements. This includes all fastening and erection requirements.
- .3 Refer to drawings for proposed location
- .4 Shop drawings to be prepared by a professional structural engineer licensed to practice in the province where construction is located, stamped and signed.

1.3 REFERENCES

- .1 CAN/CSA Z797-09, Code of Practice for Access Scaffold Format(s)

1.4 CONTRACTOR'S SITE OFFICE

- .1 Be responsible for and provide own site office, if required, including electricity, heat, lights and telephone. Locate site office as directed by Departmental Representative.
- .2 Provide office of sufficient size to accommodate 3-4 people, equipped with one desk and four chairs. Provide sufficient heat and light to enable the Institutions Commissionaires to monitor movement of site personnel and equipment onto and off the site. Office can be either separate from or co-located with the General Contractors Site Office.
- .3 Location of the building in downtown area. Site plan indicates the contractor site compound, coordinate with Department Representative.

1.5 MATERIAL STORAGE & ROOF ACCESS

- .1 Locate site storage trailers where indicated on drawings. Place in location of least interference with existing Facility operations.
 - .2 Material storage space on site is limited. Coordinate delivery to minimize storage period on site before being needed for incorporation into work.
 - .3 Roof lift mechanism to be provided by the general contractor for material both being removed from the roof area (existing roofing materials and existing stone from the penthouses, numbered and properly stored for reinstallation of material).
 - .4 Lift for access to be dedicated weight limit as per General Contractor's requirements.
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- .5 Refer to drawings for proposed location.
- .6 Shop drawings required for the material list to be prepared by a professional structural engineer licensed to practice in the province where construction is located, stamped and signed

1.6 SITE

- .1 Provide temporary fence to enclose the construction areas of work site, refer to drawings.
- .2 Erect steel fence using new 2400 mm high galvanized steel wire 'chain-link' fence supported by steel posts spaced at maximum 2.4 m oc.
 - .1 Provide one truck gate and one pedestrian gate.
 - .2 Maintain fence in good repair.
 - .3 Posts to be core drilled into the sidewalk area
- .3 Make all gates lockable and provide keyed padlocks.
- .4 Obtain Departmental Representative's approval beforehand of location and layout of all temporary fence enclosures.
- .5 Provide warning signs affixed to all fenced areas, identifying those enclosed areas as "Construction Zones" with access restricted to only those persons so authorized by General Contractor.
- .6 Do not construe fencing as an acceptable replacement for pedestrian walkway and hoarding requirements specified below.

1.7 SANITARY FACILITIES

- .1 Provide sanitary facilities for work force in accordance with governing regulations and ordinances.
- .2 Post notices and take such precautions as required by local health authorities. Keep area and premises in sanitary condition.

1.8 OVERHEAD PROTECTION AT BUILDING ENTRANCES

- .1 Contractor to construct overhead protection for any falling debris from the roof area; these to be at all principal entrances.
- .2 Construction with wood/steel framing with sheathing board faced with weatherproof covering. All exposed materials to be painted white.
- .3 Ensure any barrier free access, currently in place is not altered.
- .4 Ensure fire fighting access, travel clearance width/height at entrance is not altered.
- .5 Provide lighting, minimum 20 foot candles.
- .6 Shop drawing to be prepared by a professional structural engineer licensed to practice in the province where construction is located, stamped and signed

1.9 COMPLETE WATERTIGHTNESS DURING CONSTRUCTION

- .1 Work of this contract includes removal of roofing down to the concrete substrate and removal of the two penthouses down to the substrate.
- .2 Contractor to ensure for the roofing portion, when the existing is removed and replaced, care must be taken to provide a fully waterproof membrane, be it temporary or part of the system, there must be no water transmission. Refer to Section 07 52 00.
- .3 The contractor will be held responsible for any damage to the building finishes and contents if damaged by water during the course of this deconstruction and construction process.

1.10 TEMPORARY PENTHOUSE/ROOF OPENING

- .1 Contractor to ensure for the removal of the penthouses, proper watertight covers are provided for both penthouses and adequate cover to protect the 'elevator/lift' equipment from any damage; environmental or otherwise.
- .2 Exterior/Interior Weather Tight Closures
 - .1 Provide weather tight closures to its entirety or in its parts against the elements to maintain environment required for work as noted in the specification.
 - .2 Design enclosures to withstand wind pressure and framed to allowable spans and snow loading as per requirements of NBC 2010
 - .3 Description of Enclosure:
 - .1 Air/vapour barrier
 - .2 ½" gypsum board sheathing
 - .3 Cold formed metal framing
 - .4 Batt insulation to R-15
 - .5 6 mil polyethylene
 - .6 Seal roof flashing with adjacent areas to provide a watertight seal
 - .4 Shop drawings to be prepared by a professional structural engineer licensed to practice in the province where construction is located, stamped and signed.

1.11 POWER

- .1 Power supply is available and will be provided for construction usage at no cost.
 - .1 Make arrangements for the use of such services through the Departmental Representative.
 - .2 Departmental Representative will designate and approve each location of existing power source to which connections can be made to obtain temporary power service.
 - .3 Connect to existing power supply in accordance with Canadian Electrical Code.
 - .2 Provide and pay all costs to supply and install temporary cabling, panelboards, switching devices and other equipment as required to connect into power source, provide adequate ground fault protection and extend power supply from existing source to work areas. Perform work and make all connections in accordance with the Canadian Electrical Code, in compliance with the federal and provincial Occupational Health and Safety Regulations as specified in section 01 35 29.06.
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- .3 Provide and maintain temporary lighting to conduct work. Ensure illumination level is not less than 162lx in all locations.
- .4 Electrical power and lighting systems installed under this Contract can be used for construction requirements provided that guarantees are not affected thereby. Make good damage. Replace lamps which have been used over period of 3 months.

1.12 WATER SUPPLY

- .1 Water supply is available in existing building and on site and will be provided for construction usage at no cost. Make arrangements for the use and transportation of such services to work area through the Departmental Representative.
- .2 Permanent water supply system installed under this Contract can be used for construction requirements provided that guarantees are not affected thereby. Make good damage.

1.13 SCAFFOLDING

- .1 Design, construct and maintain scaffolding in rigid, secure and safe manner in accordance with CSA Z797-09, Code of Practice for Access Scaffold Format(s)
- .2 Erect scaffolding independent of walls. Remove when no longer required.

1.14 HEATING AND VENTILATING

- .1 Supply, install and pay for costs of temporary heat and ventilation used during construction, including costs of installation, fuel, operation, maintenance and removal of equipment. Use of direct-fired heaters discharging waste products into work areas will not be permitted.
- .2 Provide temporary heat and ventilation in enclosed areas as required to:
 - .1 Facilitate progress of work.
 - .2 Protect work and products against dampness and cold.
 - .3 Prevent moisture condensation on surfaces.
 - .4 Provide ambient temperatures and humidity levels for storage, installation and curing of materials.
 - .5 Provide adequate ventilation to meet health regulations for safe working environment.
- .3 Maintain minimum temperature of 10 degrees C, or higher where specified, as soon as finishing work is commenced and maintain until acceptance of structure by Departmental Representative.
 - .1 Maintain ambient temperature and humidity levels as required for comfort of office personnel.
- .4 Ventilating:
 - .1 Prevent accumulations of dust, fumes, mists, vapours or gases in areas occupied during construction.

- .2 Provide local exhaust ventilation to prevent harmful accumulation of hazardous substances into atmosphere of occupied areas.
- .3 Dispose of exhaust materials in manner that will not result in harmful exposure to persons.
- .4 Ventilate storage spaces containing hazardous or volatile materials.
- .5 Ventilate temporary sanitary facilities.
- .6 Continue operation of ventilation and exhaust system for time after cessation of work process to assure removal of harmful contaminants.
- .5 Maintain strict supervision of operation of temporary heating and ventilating equipment to:
 - .1 Conform with applicable codes and standards.
 - .2 Enforce safe practices.
 - .3 Prevent abuse of services.
 - .4 Prevent damage to finishes.
 - .5 Vent direct-fired combustion units to outside.
- .6 Submit bid assuming existing and new equipment and systems will not be used for temporary heating and ventilating.
- .7 Upon acceptance of bid, Departmental Representative may permit use of permanent system providing agreement can be reached on:
 - .1 Conditions of use, special equipment, protection and maintenance.
 - .2 Saving on Contract price.
 - .3 Provisions relating to warranties on equipment.

1.15 REMOVAL OF TEMPORARY FACILITIES

- .1 Remove temporary facilities from site when directed by Departmental Representative.

END OF SECTION