

1.1 SITE ACCESS AND PARKING

- .1 The Contractor is advised that parking on site is not available. Arrange for off-site parking during construction period and pay associated costs.
- .2 There is a Work / Storage area designated for Contractor's use and shown on the drawings which is available for construction use (eg. storage of materials, parking, location for site trailer and temporary sanitary facilities, etc.) for duration on the contract.
- .3 Site access is off Agency Avenue.
- .4 Maintain existing building driving lanes and parking areas clean and clear of mud, dirt and debris for duration of contract.

1.2 BUILDING ACCESS

- .1 Use only access and circulation routes within site as designated by Departmental Representative to access construction site.
- .2 All visitors to site must sign in and out daily with Commissionaire.
- .3 The majority of work of this Contract will not require interior access to the building. When access is required and approved by Departmental Representative, use only access and circulation routes as designated by the Departmental Representative to access interior spaces.
- .4 Provide exterior temporary hoists for transportation of personnel, construction material and equipment.

1.3 CONSTRUCTION SITE OFFICE

- .1 Provide own site office including electricity, heat, lights and telephone.
- .2 Locate construction site trailer within Contractor's Work / Storage area where directed by Departmental Representative.
- .3 All visitors to construction area must come to and register at Construction Site Office.

1.4 MATERIAL STORAGE

- .1 Locate site storage trailers within Contractor's Work / Storage area where directed by Departmental Representative.
- .2 Coordinate delivery to minimize storage period on site before being needed for incorporation into work.
- .3 Be responsible for security of material stored on site. Provide secure enclosure around material storage area to a minimum standard as outlined in sentence 1.5 - Site Enclosures.
- .4 Do not store materials on building roofs.

1.5 SITE ENCLOSURES

- .1 Provide temporary construction fence to enclose various construction areas of work site. Provide all required temporary fence gates, for pedestrians and vehicles, lockable as may be required to maintain site safety and security.
- .2 Obtain Departmental Representative's approval beforehand of location and layout of all temporary fence enclosures.
- .3 Provide barriers around existing trees and plants to remain and protect from damage by equipment and construction procedures. Refer to Section 01 35 43 – Environmental Procedures.
- .4 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.
- .5 Erect temporary enclosures around construction hoists, stairs and scaffolding access and in other locations where necessary to protect building occupants and visitors from hazards caused by the Work.
- .6 Ensure site enclosures do not restrict access to fire hydrants or Siamese connections.
- .7 Do not construe fencing as an acceptable replacement for pedestrian walkway and hoarding requirements specified below.

1.6 PEDESTRIAN WALKWAYS AND HOARDING

- .1 Ensure maximum safety and security to building occupants and facility users during the course of the Work.
- .2 Provide temporary 2.4 metre high plywood hoarding when work is adjacent to exterior sidewalks and circulation routes used by occupants and general public.
- .3 Maintain access and egress to building entrances and fire and designated by Departmental Representative to remain in use. Provide enclosed walkways when work is adjacent to such doors and entrances as follows:
 - .1 Erect wooden pedestrian walkway complete with roof and side covers.
 - .2 Install walkways as soon as work is in the vicinity of entrance and exit doors and poses a potential danger to facility users.
 - .3 Construct to approximate size of 2.0 metre wide x 2.4 metre high x length as required to fully clear danger zone.
 - .4 Provide signage and lighting.

1.6 PEDESTRIAN WALKWAYS AND HOARDING (continued)

.3 (continued)

.5 Submit an overhead protection plan, complete with details of walkway size, location, layout and construction, to Departmental Representative beforehand and obtain approval. Plan shall be prepared and stamped by a structural engineer licensed to practice in the province of Nova Scotia. Overhead protection shall be designed to the structural requirements of "Sidewalk Sheds" as defined in CSA S350-M1980 (R2003), Code of Practice for Safety in Demolition of Structures. The submitted plan shall clearly indicate the assumed design loads.

.4 Frame and brace hoarding and covered walkways to resist wind and other weather or site conditions.

.5 Erect such protective measures during Facility's Off-Hours periods. Refer to Section 01 14 10 – Scheduling and Management of Work for Off-Hours periods.

.6 Obtain Departmental Representative's acceptance before removing protective measures.

1.7 DUST TIGHT SCREENS AND INTERIOR BARRIERS

.1 Erect and maintain barriers inside building to isolate construction areas and protect occupants from duration of the Work.

.2 Control creation and spread of dust and debris to building interior and areas within premises used by building occupants.

.3 Erect dust tight screens or partitions to localize dust generating activities from migrating to finished areas of the Building. Maintain and relocate dust protection until such work is complete.

.4 Review dust control measures with Departmental Representative before start of construction activities and on a regular on-going basis during the course of demolition and construction work.

1.8 SANITARY FACILITIES

.1 Provide temporary sanitary facilities for work force in accordance with governing regulations and ordinances. Locate within Contractor's Work / Storage area where directed by Departmental Representative.

.2 Post notices and take such precautions as required by local health authorities. Keep area and premises in sanitary condition.

.3 Building washrooms are not available for use by construction workers.

1.9 GUARDRAILS AND BARRICADES

- .1 Provide secure, rigid guardrails and barricades around open edges of openings, floors and roofs as required by governing authorities. Maintain guards and barricades in good condition for duration of the Work.

1.10 ENCLOSURE OF STRUCTURE

- .1 Provide temporary weathertight enclosures and protection for exterior openings and /or modifications to roofing, flashing, etc. which may permit water entry until permanently enclosed.
- .2 Provide weathertight and heated enclosures to conduct exterior work during winter and other inclement weather conditions. Erect to allow accessibility for installation of materials and working inside of enclosure.
- .3 Design enclosures to withstand wind pressure and snow loading.

1.12 INSTALLATION AND REMOVAL

- .1 Provide temporary controls in order to execute work expeditiously.
- .2 Remove from site all such work after use.

1.13 DEWATERING

- .1 Provide temporary drainage and pumping facilities to keep excavations and site free from standing water.

1.14 WATER SUPPLY

- .1 Arrange for connection with appropriate utility company and pay costs for installation, maintenance and removal.
- .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.

1.15 TEMPORARY POWER AND LIGHTING

- .1 Existing building power supply, where available, may be provided at no cost for lighting and small hand tools usage during construction period. Contractor is responsible to pay for costs associated with connection and disconnection to building power supply.
 - .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.
 - .4 Power supply requirements to be reviewed at pre-construction meeting.

1.15 TEMPORARY POWER AND LIGHTING (continued)

- .2 Arrange for connection with appropriate utility company. Pay costs for installation, maintenance and removal.
- .3 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 and to lockout requirements specified in Section 01 35 25.
- .4 Provide and maintain temporary lighting throughout project to conduct work. Ensure illumination level is not less than 162 lx in all locations.

1.16 TEMPORARY HEATING AND VENTILATING

- .1 Supply, install and pay all costs for 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 strict supervision of operation of temporary heating 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.
- .4 Maintain temperature of minimum 10 degrees C in areas where construction is in progress.
- .5 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 progress to assure removal of harmful contaminants.

1.16 TEMPORARY HEATING AND VENTILATING

- .6 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.
- .7 Be responsible for damage to Work due to failure in providing adequate heat and protection during construction.

1.17 SCAFFOLDING

- .1 Design, construct and maintain scaffolding in rigid, secure and safe manner in accordance with CAN/CSA-S269.2-M87 (R2003) and CSA Z797-09 (R2014).
- .2 Submit in accordance with 01 33 00 requirements, scaffolding shop drawing prepared by a Structural Engineer licensed to practice in the Province of Nova Scotia.
- .3 Provide and maintain scaffolding, ramps, ladders, swing staging, platforms and temporary stairs.
- .4 Erect scaffolding independent of walls. Remove scaffolding when no longer required.

1.18 TEMPORARY ROOF PROTECTION

- .1 Provide and maintain temporary roof protection prior to installing scaffolding for demolition and construction work on barrel vault roof.
- .2 Temporary roof protection to consist of 19 mm. plywood sheathing over 25 mm. rigid insulation minimum. Fasten plywood sheathing together at corners.
- .3 Extend temporary roof protection along full length of barrel vault roof where scaffolding will be erected and extend 2400 mm. minimum out from face of wall.
- .4 Upon completion of the work, remove roof protection materials from roof area.

1.19 HOISTING

- .1 Provide, operate and maintain hoists required for moving of workers, materials and equipment.
- .2 Hoists to be operated by qualified operators.

1.20 ELEVATOR

- .1 Building elevator is not to be used by construction personnel or transporting materials.

1.21 PROTECTION AND MAINTENANCE OF TRAFFIC

- .1 Contractor's traffic on roads for deliveries or hauling of materials to and from site to interfere as little as possible with local area and site traffic.
- .2 Verify adequacy of existing roads and allowable load limit on these roads. Contractor to be responsible for repair of damage to roads caused by construction activities.
- .3 Provide snow removal for all areas inside construction zone, with exception of parking lot and sidewalks, during the period of Work.

1.22 TEMPORARY EROSION AND SEDIMENTATION CONTROL

- .1 Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to requirements of authorities having jurisdiction or requirements of Institution, whichever is more stringent.
- .2 Inspect, repair, and maintain erosion and sedimentation control measures during construction until permanent vegetation has been established.
- .3 Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

1.23 CONSTRUCTION SIGN AND NOTICES

- .1 Contractor or subcontractor advertisement signboards are not permitted on site.
- .2 Safety and Instruction Signs and Notices:
 - .1 Signs and notices for safety and instruction shall be in both official languages or commonly understood graphic symbols conforming to CAN3-Z321-96(R2006).
- .3 Maintenance and Disposal of Site Signs:
 - .1 Maintain approved signs and notices in good condition for duration of project and dispose of offsite on completion of project or earlier if directed by Departmental Representative.

1.24 CLEAN-UP

- .1 Remove construction debris, waste materials, packaging materials from work site daily.
- .2 Clean mud or dirt tracked onto paved or surfaced roadways and sidewalks daily.
- .3 Provide snow removal from work areas during period of Work. Comply with directions from Departmental Representative as to location of snow piles.

1.25 REMOVAL OF TEMPORARY FACILITIES

- .1 Remove temporary facilities promptly from site at completion of the Work and when directed by Departmental Representative.
- .2 Be responsible to repair and make good all damage, to match existing condition of, existing roads, sidewalks, grassed areas, etc. caused by new work and removal of temporary facilities.

END OF SECTION