**1.1 References**

.1 Canadian Standards Association (CSA).
- .1 CSA Z797-09(2014), Code of Practice for Access Scaffold.
- .2 CAN/CSA-Z321-96 (R2006), Signs and Symbols for the Workplace.

**1.2 Site Access and Parking**

.1 The Departmental Representative will designate Contractor's access to project site as well as limited parking facilities for equipment and workers.

**1.3 Building Access**

.1 Use only access doors, and circulation routes within building as designated by Departmental Representative to access interior work.

**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.

**1.5 Material Storage**

.1 Laydown area for materials and equipment will be provided.

**1.6 Site Enclosures**

.1 Provide temporary fence to enclose various construction areas of work site.

.2 Erect steel fence using new 1200 mm high galvanized steel wire fence fabric 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 Erect plastic mesh fence constructed as follows:
- .1 1200 mm height, constructed of high density polyethylene mesh fence fabric, orange in color.
- .2 Supported by steel T-bar posts or other similar framing, of sufficient quantity, adequate spacing and set firmly in ground to secure fence against sags.
- .3 Inspect fence regularly, repairing sags and damaged sections.
- .4 Incorporate within fence one operable truck gate and one pedestrian gate.

.4 Make all gates lockable and provide keyed padlocks.

.5 Obtain Departmental Representative's approval beforehand of location and layout of all temporary fence enclosures.

.6 Provide battery powered lanterns around the perimeter of the site enclosure to clearly mark its location at night.

.7 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.

.8 Do not construe fencing as an acceptable replacement for pedestrian walkway and hoarding requirements specified below.

1.7 Pedestrian Walkways and Hoarding

.1 Ensure maximum safety and security to facility users during the course of work.

.2 Maintain access and egress to building entrances and fire exits designated by Departmental Representative to remain in use. Provide enclosed walkways when work is adjacent to such doors 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 2.1 metre high x length as required to fully clear danger zone.

.4 Provide signage and lighting.

.5 Submit details of walkway size, location, layout and construction to Departmental Representative beforehand and obtain approval.

.3 Adequately frame and brace hoarding and walkways to resist wind, and other weather or site conditions.

.4 Erect such protective devices during Facility's non-operational off hour periods.

.5 Obtain Departmental Representative's concurrence prior to removal of hoarding and walkways.

1.8 Interior Dust Control and Dust Barriers

.1 Control creation and spread of dust and dirt to building interior and in particular to areas within premises still under use by occupants.

.2 Develop and implement a dust control plan, addressing effective measures to carry out work with least amount of dust being created and propagated.

.1 Carefully evaluate the type of work to be undertaken and the physical layout of each work area on site.

.2 Provide specifically tailored strategy for each work area.

.3 Pre-determine location and placement of dust barriers to confine resulting dust to immediate work area.

.4 Inform Departmental Representative of the proposed dust control measures to be followed at each work area and for each major dust generating activities. Obtain Departmental Representative's approval before proceeding with work.

.3 Dust control plan to incorporate as a minimum the following dust protection and cleaning requirements:

.1 Erect dustproof partitions completely around work area to fully isolate construction from other parts of the building.

.2 Construct dust partitions as follows:

.1 Use 10 mil polyethylene installed and sealed tightly to abutting walls, ceilings and floor with continuous duct tape along all edges and seams. Support in position with 38 x 89 wood framing at 400 mm o.c. Locate seams only at framing members and overlap sheeting by minimum of 150 mm.

.3 Provide a "dust-tight" and lockable access door(s) within dust partition or between rooms for worker entry into work area. This is of particular importance for situations where excessive dust will be generated.

.4 Provide additional dust barriers, placed tightly to underside of the floor/roof deck above, in locations where existing walls are used as part of the dust barrier system but simply terminate at the finished ceiling level resulting in an open space above, or other similar condition, permitting dust to migrate beyond the construction areas.

.5 Make all dust barriers airtight, effectively blocking and stopping all dust migration.

.6 Inspect dust barriers at various intervals during each work shift. Immediately fix tears, unsealed edges and maintain barriers effectively sealed for the entire work duration.

.7 Shut down existing ventilation system feeding construction space, or disconnect and seal-off supply and return air ducts to stop dust from contaminating other areas.

.8 Immediately clean areas in use by occupants and public contaminated by work.

.1 Vacuum carpets, wash floors and walls. Remove accumulated dust from all surfaces. Clean and remove smears, scuffs and marks.

.4 Meager attempts at controlling dust will not be tolerated. Failure to provide effective dust control during work and to perform satisfactory cleaning thereafter will result in Departmental Representative to proceed and obtain a separate cleaning service agency to perform cleaning to tenant's satisfaction with cost for such services being charged against this Contract in the form of financial holdbacks.

.5 Obtain Departmental Representative's approval before erecting any dust partitions simply to underside of finish ceiling.

.6 Construction of dust barriers, enclosures and placement of temporary protective devices to be performed during Facility non-operational off-hour periods.

1.9 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.

1.10 Enclosure of Structure

.1 Provide temporary weathertight enclosures and protection for exterior openings until permanently enclosed.

.2 Provide heated enclosures at removals/openings impacted by Work.

.3 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.

.4 Design enclosures to withstand wind pressure and snow loading.

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 maintain temporary lighting as required to conduct work. Ensure illumination level is not less than 162 lx in all locations.

1.12 Water Supply

.1 Water supply is available in existing building 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.

1.13 Scaffolding

.1 Design, construct and maintain scaffolding in rigid, secure and safe manner in accordance with CSA Z797.

.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 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.

.4 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.

.5 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 Construction Sign and Notices

.1 Upon request by Departmental Representative, erect a self-supporting project sign in location indicated.

.2 Departmental Representative will provide a vinyl sign facing for installation by Contractor on sign framework. Sign frame to be plywood face of approximately 1200 mm x 2400 mm in size complete with required wood framing at 400 mm o.c. and support posts.

.3 Install sign plumb and level in neat wood framework and securely anchor in ground by posts to withstand wind pressure of 160 km/h.

.4 Contractor or subcontractor advertisement signboards are not permitted on site.

.5 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 CAN/CSA-Z321.

.6 Maintenance and Disposal of Site Signs:
.1 Maintain approved signs and notices in good condition for duration of project and dispose of off-site on completion of project or earlier if directed by Departmental Representative.

1.16 Removal of Temporary Facilities

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

END OF SECTION