

Part 1 General**1.1 RELATED REQUIREMENTS**

- .1 Division 23 Heating, ventilating and air conditioning

1.2 REFERENCES

- .1 U.S. Environmental Protection Agency (EPA) / Office of Water
 - .1 EPA 832R92005, Storm Water Management for Construction Activities: Developing Pollution Prevention Plans and Best Management Practices.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.

1.4 INSTALLATION AND REMOVAL

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

1.5 WATER SUPPLY

- .1 Departmental Representative will provide continuous supply of potable water for construction use.
- .2 Take measures needed to connect utility network concerned to company network temporarily. Disconnect and evacuate worksite once work is completed.

1.6 TEMPORARY HEATING AND VENTILATION

- .1 Provide temporary heating required during construction period, including attendance, maintenance and fuel.
- .2 Construction heaters used inside building must be vented to outside or be non-flameless type. Solid fuel salamanders are not permitted.
- .3 When propane or natural gas is used as heating fuel, Contractor shall conduct daily inspection of heating appliances, including statutory holidays, vacation days and weekends. These appliances must be equipped with a device to halt fuel feed automatically when burner stops.
- .4 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.

- .5 Maintain temperatures of minimum 10 degrees C in areas where construction is in progress.
- .6 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.
- .7 Permanent heating system of building, to be used when available and if approved in writing by the Departmental Representative. Be responsible for damage to heating system if use is permitted. Use of permanent heating system, prior to its substantial performance, will have no impact on the warranty requirements as noted in specifications.
- .8 Return in initial state any portion of heating system used during construction before date of Certificate of Substantial Performance as specified in Division 23. Replace all filters.
- .9 Ensure Date of Substantial Performance and Warranties for heating system do not commence until entire system is in as near original condition as possible and is certified by Departmental Representative.
- .10 Pay costs for maintaining temporary heat, when using permanent heating system. Departmental Representative will pay utility charges when temporary heat source is existing building equipment
- .11 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.
- .12 Be responsible for damage to Work due to failure in providing adequate heat and protection during construction.

1.7 POWER AND LIGHT

- .1 Contractor will pay for temporary power during construction for temporary lighting and operating of power tools. It is possible to connect to existing facilities (electrical panel : 400 A, 600 V, 3 phases). Set up a separate meter to identify the consumer for work
- .2 Departmental Representative is not responsible for temporary power outages.
- .3 Arrange for connection with appropriate utility company. Pay costs for installation, maintenance and removal.

- .4 Do not use temporary power for welding. Use generator for welding work.
- .5 If the power supply provided by the Departmental Representative does not suffice, provide and pay for additional temporary power requirements during construction for temporary lighting and operating of power tools in accordance with regulations and codes in effect.
- .6 Provide central power panels to all subcontractors. Subcontractors will provide their own extension cords and adaptors.
- .7 Provide and be responsible for required switches, fuses, wiring and connections in accordance with Canadian Electrical Code.
- .8 Temporary power for electric cranes and other equipment requiring in excess of above is responsibility of Departmental Representative.
- .9 Provide and maintain temporary lighting throughout project. Ensure level of illumination on all floors and stairs is not less than 162 lux. Provide additional lighting as required by specific specification sections to ensure quality control.
- .10 Provide adequate lighting at night and during dark days to ensure work and inspections are properly carried out.
- .11 Electrical power and lighting systems installed under this Contract may be used for construction requirements only with prior approval of Departmental Representative provided that guarantees are not affected. Make good damage to electrical system caused by use under this Contract. Replace lamps that have been used for more than 3 months prior to Substantial Acceptance of Work.
- .12 Contractor is responsible for work required to provide temporary power and lighting.
- .13 Réaliser les installations temporaires nécessaires à l'alimentation électrique des roulottes de chantier de l'entrepreneur et du Représentant du ministère (experts-conseils et commissaires).

1.8 COMMUNICATION FACILITIES

- .1 Provide and pay for temporary telephone, fax, data, hook up, lines and equipment necessary for own use and use of Departmental Representative. Ensure connection of these installations to main networks and assume costs of all these services.

1.9 FIRE PROTECTION

- .1 Provide and maintain temporary fire protection equipment during performance of Work required by insurance companies having jurisdiction governing codes, regulations and bylaws.
- .2 Burning rubbish and construction waste materials is not permitted on site.

Part 2 Products

2.1 NOT USED

- .1 Not Used.

Part 3 Execution**3.1 NOT USED**

.1 Not Used.

END OF SECTION