

DIVISION 01 - GENERAL REQUIREMENTS

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

- .1 The Instructions to Bidders, the General Conditions of CCDC 2 - 1994, Supplementary Conditions and all Sections of Division 01 apply to and form part of this section of the specification.
- .2 The G.C. is solely responsible for all safety on site. It is his responsibility to monitor, apply, reinforce, regulate, educate and report all aspects of site safety.
- .3 This specification section is to represent a guide for the G.C. as a minimum standard. In no way should it be considered an overriding authority to required standards.

1.2 CONSTRUCTION SAFETY MEASURES

- .1 Observe and enforce construction safety measures required by Ontario Building Code 2006, Canadian Construction Safety Code 1977, Occupational Health and Safety Act 1990, Revised Statutes of Ontario 1980 and Subsequent Revisions, Worker's Compensation Board and Municipal statutes and authorities.
- .2 In the event of conflict between provisions of above authorities the most stringent provision applies.
- .3 Where applicable the Contractor shall be designated the "Constructor" as defined by the Ontario Act.
- .4 Provide and maintain appropriate first aid equipment and supplies in accordance with First Aid Regulations. Obtain and implement recommendations from Occupational Health and Safety Division in province where work is performed specific to the project work site.

1.3 FIRE SAFETY REQUIREMENTS

- .1 Comply with the requirements of standard for Building Construction Operations FCC No. 301 - June 1982, (latest regulation) issued by the Fire Commissioner of Canada and local fire codes issued by the Office of the Fire Marshall.
- .2 Handle and dispose of gasoline, benzene or other flammable and combustible liquids in accordance with the requirements of the Gasoline Handling Act.
- .3 Place oily waste, rags and the like into suitable safety containers and remove from building at the end of each working day.
- .4 When a fire occurs on Site or any extinguisher is used for any reason, submit full written report to Architect within 24 hours.

1.4 FIRE SAFETY PLAN

- .1 In accordance with the Ontario Building Code and the Ontario Fire Code prepare a fire safety plan identifying the following;
 - .1 Emergency procedures to be used in case of fire.
 - .2 Appointment of designated staff to carry out safety duties.
 - .3 Training of supervisory staff.
 - .4 Documents showing the type, location and operation of the buildings fire emergency systems.
 - .5 The holding of fire drills.
 - .6 The control of fire hazards in the building.
 - .7 The inspection and maintenance of the building facilities for fire fighting safety.

1.5 FALSE WORK

- .1 Design and construct false work in accordance with CSA S269.1-1975.

1.6 SCAFFOLD

- .1 Design and construct scaffolding in accordance with CSA S269.2-M1980.

1.7 FIRST AID FACILITIES

- .1 Provide on site, required first aid facilities in accordance with Occupational Health and Safety Act and first aid regulations 2005-130 and WHSCC first aid interpretation issued January 11, 2005

1.8 OVERLOADING

- .1 Ensure no part of a project, including a temporary structure is subjected to load or procedure in excess of the load it is designed and constructed to bear, which will endanger its safety or the safety of project personnel.

1.9 HANDLING AND TRANSPORTATION OF DANGEROUS GOODS

- .1 Observe and enforce all measures required by the regulatory agencies including but not limited to Environment Canada, local authority having jurisdiction and Transport Canada.

- .2 Most current regulatory Guidelines and Acts will apply to the work.
- .3 In the case of any conflict, the more stringent requirements will apply.

1.10 **POTENTIAL HAZARDS**

- .1 Hazards include, but are not limited to, toxic, flammable and explosion hazards associated with cleaning solvents.
- .2 The Contractor shall become familiar with all potential hazards associated with the work, and shall take necessary measures to avoid injury or damage of any kind.

1.11 **HEALTH AND SAFETY PLAN**

- .1 Prior to commencement of the work, complete a Health and Safety Plan. Provide a copy to Owner and Consultant if requested. The Health and Safety Plan shall comply with the provisions of this Section, and shall illustrate the Contractor's knowledge and understanding of health and safety aspects of the work, the Contractor's intention to maintain a high level of safety on-site, and shall include, but not be limited to:
 - .1 General:
 - .1 Company policy statements
 - .2 Duties and Responsibilities
 - .3 Administration
 - .4 Emergency response plan
 - .5 General policies
 - .6 Hazard identification and control
 - .7 Hazardous material policy
 - .8 Orientation and training
 - .9 Report forms
 - .10 Safe work policies and procedures
 - .2 Description of Work.
 - .3 Description of site-specific hazards:
 - .1 Physical
 - .2 Chemical
 - .3 Environmental
 - .4 Protective Equipment:
 - .1 Respiratory
 - .2 Contact
 - .5 Decontamination Procedures:

- .1 Personal protective equipment (PPE)
- .2 Equipment

- .6 Medical Monitoring:
 - .1 Workers medical profile and suitability to work at the site

- .7 Air-Monitoring Procedures:
 - .1 Action levels
 - .2 Site Monitoring
 - .3 Perimeter Monitoring

- .8 Emergency Procedures:
 - .1 Emergency Equipment
 - .2 Contingency Plans:
 - .1 Spill Control
 - .2 Fire
 - .3 Ventilation
 - .4 Medical Emergency

- .9 General Safety:
 - .1 Designation of site-safety officer
 - .2 Safety log
 - .3 Trenching, digging, excavations
 - .4 Storage of flammables, compressed gases
 - .5 Safety Inspections

- .10 Site Training
 - .1 Initial hazard
 - .2 Daily safety
 - .3 MSDS & worker training

- .2 All workers shall be trained and be familiar with the health and Safety Plan and the use of personal protective equipment.

1.12 **TESTING AND MONITORING**

- .1 Test and monitor for hazardous conditions, as required to demonstrate compliance with provincial regulations.

- .2 If multiple locations are being worked simultaneously, provide monitoring at all locations where work is being carried out, including providing additional monitoring instruments.

1.14 SITE SAFETY OFFICER

- .1 Appoint a responsible member of the work force as Site Safety Officer (SSO). The selection of the SSO will be subject to the approval of the Consultant and the Owner, and changes shall be made as requested. The SSO shall be responsible for ensuring that all provisions of the Health and Safety Plan and relevant legislation are implemented. The SSO shall ensure that all monitoring and testing, as specified, are conducted. The SSO shall maintain records of all readings that are taken by the Contractor and copy any abnormal or dangerous situations to the Consultant, after having implemented emergency measures, as required, and work shall not continue or proceed until the situation has been rectified.
- .2 The SSO shall be authorized to act on behalf of the Contractor on all matters related to Health and Safety.
- .3 The SSO will meet weekly with the Project Manager and Owner during renovation projects (in cases of new construction, these meetings will commence during joint occupancy or as soon as personnel begin start up procedures) to discuss safety issues/concerns from Owner perspective and recommendation for improvement.

1.14 PERSONAL PROTECTIVE EQUIPMENT

- .1 Use personal protection equipment or devices as prescribed by any manufacturers, provincial acts or safety regulation.
- .2 Training of workers in the proper use, fitting inspections and storage of personal protective equipment shall be done prior to use of the equipment.

1.15 SANITATION / DECONTAMINATION PRACTICES

- .1 After each use, all disposable protective equipment shall be collected in a dedicated container for disposal.
- .2 All respiratory equipment shall be decontaminated daily after use.
- .3 All tools, pumps and equipment used during cleanup should be dedicated to the handling of contaminants and labelled as such and thoroughly decontaminated at the completion of the project.
- .4 Contaminated work clothing shall not be worn outside of regulated areas.
- .5 Workers shall wash their hands and exposed skin before eating, drinking, smoking or using toilet facilities during the work shift, and at the completion of a work shift.
- .6 Food, drink and tobacco products shall only be permitted in regulated areas.

1.16 WORK PRACTICES AND ENGINEERING CONTROLS

.1 Regulated Areas:

.1 Access to work areas shall be regulated and limited to authorized persons. A daily roster shall be kept of persons entering such areas.

.2 Handling Contaminants and General Work Practices:

.1 Transportation and handling of contaminants applicable local, provincial and federal regulations.

.2 Emergency respiratory equipment shall be located in readily accessible locations which will remain minimally contaminated with contaminants in an emergency.

.3 Containers and systems shall be handled and opened with care. Approved protective clothing shall be worn by all employees engaged in regulated areas.

.4 All wastes and residues containing contaminants shall be collected in appropriate containers.

.3 Confined or Enclosed Spaces:

.1 Entry into confined or enclosed spaces, where there is limited egress, shall be controlled by a permit system. Permits shall be signed by an authorized representative of the employer and shall certify that appropriate measures have been taken to prevent adverse effects on the worker's health as a result of his or her entry into such space.

.2 Confined or enclosed spaces which have contained contaminants shall be thoroughly ventilated to assure an adequate supply of oxygen, tested for contaminants, and inspected for compliance with these requirements prior to each entry. Adequate ventilation shall be maintained while workers are in such spaces. Each individual entering such confined or enclosed space shall be furnished with appropriate personal protective equipment and clothing and be connected by a lifeline harness to a standby workers stations outside of the space. The standby worker shall also be equipped for entry with approved personal protective equipment and clothing and have contact with a third person. The standby person shall maintain communication (visual, voice, signal line, telephone, radio, or other suitable means) with the employee inside the confined or enclosed space.

.3 Workers entering confined spaces and standby workers shall be trained at a recognized confined space training program.

.4 Ensure all safety guidelines re: safety fences at perimeter construction of this project.

1.17 **RECORD KEEPING**

- .1 All activities associated with Health and Safety shall be recorded daily in a bound notebook. Include as a minimum: activity date, time, location of occurrence, mitigation action taken and results. Records shall be provided to the Owner and Consultant when requested.

1.19 **OPEN FLAMES, SPARKS, EXPLOSION PROTECTION**

- .1 Keep open flames and sparks to a minimum. When flames or sparks are required, follow proper procedure to prevent fire or explosion.

1.19 **VENTILATION OF WORKING AREAS**

- .1 There will be potential for accumulation of hazardous chemical agents in the working area. Vent to atmosphere, or otherwise control, in accordance with environmental regulations, the vapours in building to avoid nuisance, health, safety or other hazards to the satisfaction of provincial regulatory requirements.
- .2 The Contractor shall include in his Emergency Plan for ventilation and provisions of ventilation equipment. If requested, submit plan of ventilation to the Consultant for review and concurrence.

1.20 **SITE SAFETY MEETINGS**

- .1 An orientation meeting will be held with all workers at the start-up of the work, with the presence of the Owner's Project Manager to review the Health and Safety aspects of the work.
- .2 An orientation meeting will be held for each new worker on the site following the initial orientation meeting.

1.21 **SUSPENSION OF ACTIVITIES**

- .1 Exposure to contaminants shall be controlled so that no worker is exposed to contaminants at a concentration greater than the Time Weighted Average (TWA) concentration for the contaminant, for up to a 10 hour workday, 40 hour work week.
- .2 The Contractor will halt activities immediately during unsafe conditions. All costs relating to suspension of work for Contractor's failure to maintain Health and Safety procedures shall be borne by the Contractor.

1.22 **SITE SECURITY**

- .1 The Contractor must secure the site during all phases of the construction period. **The Contractor must use Construction Safety and Industrial Safety Regulations approved fences and barriers around perimeter of construction works at all times.**

1.23 JOB CLEANINGS AND HOUSEKEEPING

- .1 Comply with all daily cleaning requirements contained within the specification as they pertain to construction areas and occupied areas of the building during Construction.

- .2 Coordinate, monitor and enforce these procedures as they directly relate to the health and safety plan.

- .3 Review these procedures at weekly safety meeting with S.S.O., the Owner's Project manager and Transit's manager.

END OF SECTION