

**Part 1 General**

**1.1 REFERENCES**

- .1 Province of Ontario
  - .1 Occupational Health and Safety Act and Regulations for Construction Projects, R.S.O. 1990, C.O.1, as amended and O. Reg. 213/91 as amended - Updated 2015.
- .2 Province of Quebec
  - .1 An Act Respecting Occupational Health and Safety, R.S.Q., c.S-2.1 - Updated 2015.
  - .2 Safety Code for the Construction Industry, R.R.Q., 1981, c. S-2.1, r.4 - Updated 2015.

**1.2 SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit site-specific Health and Safety Plan within 10 days after date of Notice to Proceed and prior to commencement of Work. Health and Safety Plan must include:
  - .1 Contractor's Health and Safety Policy.
  - .2 Name of Health and Safety Coordinator.
  - .3 Site-specific safety hazard assessment and measures to be taken to address the anticipated hazards.
  - .4 Results of safety and health risk or hazard analysis for site tasks and operation and procedure for managing hazards.
  - .5 Other safe-work procedures such as:
    - .1 Supervisor and Employee names;
    - .2 Contact Numbers;
    - .3 Public protection;
    - .4 Use of PPE;
    - .5 Proof (copy) of all worker Trades Qualifications, Apprentice Certificates and mandatory training certificates for all workers on the project.
  - .6 Personnel training requirements including, but not limited to, the following:
    - .1 Training and Qualifications of personnel and alternates responsible for site safety and health;
    - .2 Training requirements for hazards present on site; and
    - .3 Training for use of personal protective equipment.
  - .7 On-site Contingency and Emergency Response Plan including:
    - .1 Evacuation procedure
    - .2 Identification of resources (police, firefighters, ambulance services, etc.)
    - .3 Identification of persons in charge at the site
    - .4 Identification of those with first-aid training
    - .5 Training required for those responsible for applying the plan

- .6 Any other information needed, in light of the site characteristics
- .8 On-site Communication Plan including:
  - .1 Procedures for sharing of work related safety information to subconsultants, including emergency and evacuation measures.
  - .2 List of critical work activities to be communicated with Facility Manager which have a risk of endangering health and safety of Facility users.
- .9 Procedures in case of accident/injury.
- .10 Written commitment from all parties to comply with the safety program.
- .11 Address all activities of the Work including those of sub consultants.
- .12 Review Health and Safety Plan regularly during the Work. Update as conditions warrant to address emerging risks and hazards, such as whenever a new subconsultant arrives at Work Site.
- .13 Departmental Representative will respond in writing, where deficiencies or concerns are noted and may request re-submission of the Plan with correction of deficiencies or concerns.
- .14 Post copy of the Plan, and updates, prominently on Work Site.
- .3 Implement, maintain and enforce Health and Safety Plan for entire duration of Work and until final demobilization from site.
- .4 Submit a copy of Contractor's authorized representative's work site health and safety inspection reports to Departmental Representative, monthly.
- .5 Submit to Departmental Representative within 24 hours a copy of any inspection report, correction notice or recommendations issued by Federal or Provincial health and safety inspectors.
- .6 Submit to Departmental Representative copies of incident and accident reports within 24 hours.
- .7 Submit to Departmental Representative WHMIS MSDS - Material Safety Data Sheets in compliance with Regulation respecting information on controlled products.
- .8 Departmental Representative will review Contractor's site-specific Health and Safety Plan and provide comments to Contractor within 10 days after receipt of plan. Revise plan as appropriate and resubmit plan to Departmental Representative within 5 days after receipt of comments from Departmental Representative.
- .9 Departmental Representative's review of Contractor's final Health and Safety plan should not be construed as approval and does not reduce the Contractor's overall responsibility for construction Health and Safety.
- .10 Submit revisions and updates to the Plan during course of the Work.
- .11 Submit minutes of Contractor's Health and Safety meetings when requested.
- .12 Medical Surveillance: where prescribed by legislation, regulation or safety program, submit certification of medical surveillance for site personnel prior to commencement of Work, and submit additional certifications for any new site personnel to Departmental Representative.

### **1.3 FILING OF NOTICE**

- .1 File Notice of Project with Provincial authorities prior to beginning of Work.
  - .1 Québec: Notice of Project (Avis d'ouverture de chantier) with the Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST).
  - .2 Ontario: Notice of Project to be filed with the Ministry of Labour (MOL).
- .2 Be responsible and assume the Principal Contractor (Constructor - Maître d'oeuvre) role for each work zone location and not the entire complex. Provide a written acknowledgement of this responsibility within 3 weeks of contract award. Submit written acknowledgement to CNESST along with Ouverture de Chantier Notice.
- .3 Agree to install proper site separation and identification in order to maintain time and space at all times throughout life of project.

### **1.4 SAFETY ASSESSMENT**

- .1 Perform site specific safety hazard assessment related to project.
- .2 All mechanical and electrical equipment must be inspected before delivery to the site. Whenever the Departmental Representative suspects a defect or accident risk, the Departmental Representative may at any time order the immediate shut-down of equipment and require a new inspection by a specialist of the Departmental Representative's choosing.

### **1.5 MEETINGS**

- .1 Schedule and administer Health and Safety meeting with Departmental Representative prior to commencement of Work.

### **1.6 REGULATORY REQUIREMENTS**

- .1 Do Work in accordance with all applicable Provincial Acts and Regulations for construction projects.

### **1.7 PROJECT/SITE CONDITIONS**

- .1 Work at site will involve contact with:
  - .1 Silica;
  - .2 Lead;
  - .3 Bird droppings;
  - .4 Noise and vibration;
  - .5 Exposure to traffic, including cyclists;
  - .6 Working under traffic and pedestrians (falling objects);
  - .7 Working above traffic, pedestrians and/or other workers (dropping objects);
  - .8 Working at heights;
  - .9 Working above water;
  - .10 Biohazard (presence of syringes on the structure);
  - .11 Exposure to boat traffic;
  - .12 Working near electrical wires.

- .2 Above items not to be construed as being a complete and inclusive list of potential health and safety hazards encountered during Work.
- .3 Include above items in the hazard assessment of the Work.

## **1.8 GENERAL REQUIREMENTS**

- .1 Develop written site-specific Health and Safety Plan based on hazard assessment prior to beginning site Work and continue to implement, maintain, and enforce plan until final demobilization from site. Health and Safety Plan must address project specifications.
- .2 Departmental Representative may respond in writing, where deficiencies or concerns are noted and may request re-submission with correction of deficiencies or concerns.
- .3 Relief from or substitution for any portion or provision of minimum Health and Safety Guidelines specified herein or reviewed site-specific Health and Safety Plan must be submitted to Departmental Representative in writing. Departmental Representative will respond in writing, either accepting or requesting improvements.
- .4 Designate a Safety Officer on site in compliance with the CNESST Safety Code for Construction Industry, from the beginning to the end of construction.
- .5 Organize a site safety committee as by CNESST and MOL regulations.
- .6 Ensure that work practices and operation can minimize risks from hazards.
- .7 Ensure before commencing work that personnel assigned on work site are holding valid Health and Safety Certificates when required by Regulations.
- .8 Portable fire extinguishers that provide protection according to the nature of the present hazard to be installed in all equipment, buildings, temporary platforms, barges, etc. and be approved by Underwriters Laboratories of Canada (U.L.C.).

## **1.9 RESPONSIBILITY**

- .1 Be fully responsible for health and safety of persons on site, safety of property on site and for protection of persons adjacent to site and environment to extent that they may be affected by conduct of Work.
- .2 Be responsible and assume the role Constructor as described in the Ontario Occupational Health and Safety Act and Regulations for Construction Projects.
- .3 Be responsible and assume the role the Principal Contractor as described in the Quebec Act Respecting Health and Safety code for the Construction for only their scope and areas of work as defined and described in this project specification.
- .4 Comply with and enforce compliance by employees with safety requirements of Contract Documents, applicable federal, provincial, territorial and local statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.

## **1.10 COMPLIANCE REQUIREMENTS**

- .1 Comply with Ontario Occupational Health and Safety Act, R.S.O. 1990, c. 0.1 and Ontario Regulations for Construction Projects, O. Reg. 213/91.
- .2 Comply with R.S.Q., c. S-2.1, an Act respecting Health and Safety, and c. S-2.1, r.4 Safety Code for the Construction Industry.

### **1.11 UNFORSEEN HAZARDS**

- .1 When unforeseen or peculiar safety-related factor, hazard, or condition occur during performance of Work, follow procedures in place for Employee's Right to Refuse Work in accordance with Acts and Regulations of Province having jurisdiction and advise Departmental Representative verbally immediately and in writing within 24 hours.

### **1.12 HEALTH AND SAFETY CO-ORDINATOR**

- .1 Employ and assign to Work, competent and authorized representative as Health and Safety Co-ordinator. Health and Safety Co-ordinator must:
  - .1 Have site-related working experience specific to activities associated with bridge construction/rehabilitation.
  - .2 Have working knowledge of occupational safety and health regulations.
  - .3 Be responsible for completing Contractor's Health and Safety Training Sessions and ensuring that personnel not successfully completing required training are not permitted to enter site to perform Work.
  - .4 Be responsible for implementing, enforcing daily and monitoring site-specific Contractor's Health and Safety Plan.
  - .5 Be on site during execution of Work and report directly to and be under direction of site supervisor.

### **1.13 POSTING OF DOCUMENTS**

- .1 Ensure applicable items, articles, notices and orders are posted in conspicuous location on site in accordance with Acts and Regulations of Province having jurisdiction, and in consultation with Departmental Representative.
- .2 Provide documents as follows and post on site:
  - .1 Contractor's (Constructor's / Principal Contractor's) name.
  - .2 Name, trade and employer of Health and Safety Coordinator.
  - .3 Contractor's Health and Safety Policy.
  - .4 Site-Specific Health and Safety Plan, including Emergency Response Plan.
  - .5 Notice of Project / Avis d'ouverture de chantier
  - .6 Ministry of Labour Orders and reports.
  - .7 Occupational Health and Safety Act and Regulations for Construction Projects for Province of Ontario / Act Respecting Occupational Health and Safety for Province of Quebec.
  - .8 Material Safety Data Sheets.
  - .9 Copy of valid certificate for first-aid personnel on duty.
  - .10 WSIB "In Case of Injury" poster.
  - .11 Location of toilet and clean-up facilities.
  - .12 Any special handling or procedures specific to the site.
  - .13 Any other document required by CNESST or MOL regulations.

### **1.14 CORRECTION OF NON-COMPLIANCE**

- .1 Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Departmental Representative.

- .2 Provide Departmental Representative with written report of action taken to correct non-compliance of health and safety issues identified.
- .3 Departmental Representative may stop Work if non-compliance of health and safety regulations is not corrected.

#### **1.15 BLASTING**

- .1 Blasting or other use of explosives is not permitted.

#### **1.16 POWDER ACTUATED DEVICES**

- .1 Use powder actuated devices only after submittal of full justification for the requirement of their use and receipt of written permission from Departmental Representative.

#### **1.17 INCIDENT REPORTING**

- .1 Ensure that every employer has informed the Provincial authorities of an event by the most rapid means of communication, followed within 24 hours by a written report, in the form and with the information prescribed by regulation, if this event has caused:
  - .1 The death of a worker;
  - .2 Such serious injury to a worker preventing the worker from performing their work for ten (10) consecutive working days;
  - .3 Such serious injuries to several workers preventing them from performing their work for one working day; or
  - .4 Material damage valued at \$50,000 or more.
- .2 Report all incidents to the applicable authorities having jurisdiction as per their regulations.

#### **1.18 HAZARDOUS PRODUCTS**

- .1 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS).
- .2 Keep MSDS data sheets for all products delivered to site.
  - .1 Post on site.
  - .2 Submit copy to Departmental Representative.

#### **1.19 WORK STOPPAGE**

- .1 Give precedence to safety and health of public and site personnel and protection of environment over cost and schedule considerations for Work.
- .2 Assign responsibility and obligation to Health and Safety Coordinator to stop or start Work when, at Health and Safety Coordinator's discretion, it is necessary or advisable for reasons of health or safety.

**Part 2            Products**

**2.1                NOT USED**

.1            Not used.

**Part 3            Execution**

**3.1                NOT USED**

.1            Not used.

**END OF SECTION**