

## **PART 1 GENERAL**

### **1.1 RELATED REQUIREMENTS**

- .1 Section 01 35 43 – Environmental Procedures.
- .2 Section 01 56 00 – Temporary Access and Protection.

### **1.2 REFERENCES**

- .1 Canadian Standards Association (CSA International)
  - .1 CSA-A23.1/A23.2-F04, Béton – Concrete Materials and Methods of Concrete Construction/Test Methods and Standard Practices for Concrete.
  - .2 CSA-0121-FM1978(C2003), Douglas Fir Plywood.
  - .3 CAN/CSA-S269.2-FM1987(C2003), Access Scaffolding for Construction Purposes.
- .2 Ministère des Transports du Québec
  - .1 Cahier de normalisation Tomes Signalisation routière, dernière édition.

### **1.3 ACTION AND INFORMATIONAL SUBMITTALS**

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

### **1.4 INSTALLATION AND REMOVAL**

- .1 Prior to commencing work, prepare, for approval of Departmental Representative, site plan indicating proposed location and dimensions of areas to be fenced and used by Contractor, number of trailers, access to fenced in area and fencing details.
- .2 Identify areas which have to be crushed stone to prevent tracking of mud.
- .3 Indicate use of supplemental or other staging area.
- .4 Provide construction facilities in order to execute work expeditiously.
- .5 Remove from site all such work after use.
- .6 Disconnect and dismantle temporary power network made available.
- .7 Restore site to preconstruction state, remove the temporary coating of crushed stone, spread topsoil and seed as indicated on plan.

### **1.5 SCAFFOLDING**

- .1 Scaffolding in accordance with CAN/CSA-S269.2.
- .2 Provide scaffoldings, access ramps, ladders, swing stagings, platforms, temporary stairs and all hoisting equipments necessary to the execution of the works, and ensure their maintenance.

## **1.6 HOISTING**

- .1 Provide, operate and maintain hoists and cranes required for moving of workers, materials and equipment. Make financial arrangements with Subcontractors for their use of hoists.
- .2 Hoists and cranes to be operated by qualified operators.

## **1.7 SITE STORAGE/LOADING**

- .1 Provide outdoor storage plan for materials including granular, stones, conduits and other and have approved by Departmental Representative.
- .2 Confine work and operations of employees by Contract Documents. Do not unreasonably encumber premises with products.
- .3 Do not load or permit to load any part of Work with weight or force that will endanger Work.

## **1.8 CONSTRUCTION PARKING**

- .1 Identify parking area for Contractor's use.
- .2 Provide and maintain adequate access ways to project site and ensure maintenance.
- .3 Provide access signs in accordance with Ministère des Transports du Québec requirements.
- .4 Clean trails and streets if used by construction equipment.

## **1.9 SECURITY MEASURES**

- .1 Provide and pay for responsible security personnel to guard site and contents of site after working hours and during holidays.

## **1.10 OFFICES**

- .1 Provide office heated to 22 degrees C, lighted 750 lx and ventilated, of sufficient size to accommodate site meetings and furnished with drawing lay down table.
- .2 Provide marked and fully stocked first-aid case in a readily available location.
- .3 Subcontractors to provide their own offices as necessary. Direct location of these offices.
- .4 Departmental Representative's Site office:
  - .1 Provide temporary access for Departmental Representative.
  - .2 Provide office of 3,600 mm x 3,000 mm, floor 0.3 metres above ground level, four windows opening at 50% and lockable door.
  - .3 The trailer must be well insulated. Provide heating system to maintain 22 degrees C inside.
  - .4 Finish inside walls and ceiling with plywood, hardboard or wallboard and paint in white. Finish floor with 19 mm thick plywood.
  - .5 Trailer must have electrical lighting system to provide min 750 lx in all rooms using commercial type fixtures, direct lighting with 10% directed upwards, surface mounted and equipped with reflector.
  - .6 Provide private toilet near office with chemical W.C. or flush, sink and mirror, and supply of paper towels and toilet paper.

**1.10 OFFICES (cont'd)**

- .7 Equip office with 1 m x 2 m desk, 4 chairs, shelves 300 mm wide, three-drawer filing cabinet, support for drawings, coat rack with shelf.
- .8 Maintain in clean condition.

**1.11 EQUIPMENT, TOOL AND MATERIALS STORAGE**

- .1 Provide and maintain, in clean and orderly condition, lockable weatherproof sheds for storage of tools, equipment and materials.
- .2 Locate materials not required to be stored in weatherproof sheds on site in manner to cause least interference with work activities.

**1.12 SANITARY FACILITIES**

- .1 Provide sanitary facilities for work force in accordance with governing regulations and ordinances.
- .2 Post notices and take precautions as required by local health authorities. Keep area and premises in sanitary condition.

**1.13 CONSTRUCTION SIGNAGE**

- .1 Provide and erect project sign in location indicated by Departmental Representative, within three weeks of signing Contract.
- .2 Install 2,400 m x 1,200 m sign, plywood and wood frame, with Departmental Representative's self-adhering film. Refer to appended for sign details.
- .3 No other signs or advertisements, other than warning signs, are permitted on site.
- .4 Provide and erect project sign in location indicated by Departmental Representative.
  - .1 Install frame and mount plywood panel on frame.
  - .2 Fabricate sign of sanded Douglas Fir plywood, 19 mm thick, average density, outdoor quality. Sand and seal or cover edges with aluminum. Lap joints 25 mm over 50 mm (rear of panels). Seal and prime panel surface to CGSB 1-GP-55M. Paint with exterior white enamel to CAN/CGSB-1.59-M89. Sealant, primer and finish must be compatible. Do not use silicate paint.
  - .3 Apply vinyl film provided by Departmental Representative using tools and instructions provided by Departmental Representative. Provide supports and signs as instructed by Departmental Representative. Fabricate supports using quality white spruce, Douglas Fir or Western Red Cedar, planed on four sides
  - .4 Cover vinyl film with 1,200 x 2,400 mm plexiglass attached with screws and rubber washers.
  - .5 Use galvanized aluminum or steel nails and galvanized or cadmium coated screws.
  - .6 Prime supports with exterior primer to CGSB 1-GP-55M and two coats black exterior enamel to CAN/CGSB-1.59-M89.
  - .7 Dismantle sign and dispose of as instructed by Departmental Representative.

**1.13 CONSTRUCTION SIGNAGE (cont'd)**

- .5 Provide writing on signs and security notices in both official languages, and graphic symbols to CAN/CSA-Z321.
- .6 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.

**1.14 CLEAN-UP**

- .1 Remove construction debris, waste materials, packaging material from work site daily.
- .2 Clean dirt or mud tracked onto paved or surfaced roadways.
- .3 Store materials resulting from demolition activities that are salvageable.
- .4 Do not stack in construction facilities stored new or salvaged material.

**PART 2 PRODUCT**

**2.1 NOT USED.**

- .1 Not Used.

**PART 3 EXECUTION**

**3.1 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 and sediment and erosion control drawings, specific to site.
- .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.

**END OF SECTION**