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**TEMPORARY CONSTRUCTION FACILITIES & CONTROLS**

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**PART 1 GENERAL****1.1 Description**

- .1 To provide construction facilities and temporary controls in order to execute Work expeditiously.
- .2 The Contractor shall have sole responsibility for the design, erection, operation, maintenance, and removal of all temporary facilities
- .3 Remove all temporary facilities once Work is complete.

**1.2 Related Work**

- .1 Section [01450](#) Quality Control & Inspection
- .2 Section [01561](#) Environmental Protection
- .3 Section [01600](#) Material, Equipment, & Workmanship Quality
- .4 Section [01740](#) Cleaning

**1.3 Design of Temporary Facilities**

- .1 The Contractor shall be responsible for design and safety of temporary facilities. Temporary facilities of such nature that engineering proficiency is required for their design to ensure safety during construction shall be stamped by a Professional Engineer, licensed to practice in the province of Ontario. Prior to the temporary structure used, the Engineer shall inspect the structure and issue a certificate to the Consultant stating that it has been instructed according to the design.

**1.4 Field Offices and Sheds**

- .1 Contractor's Office: Provide and maintain, during the entire progress of the Work, a suitable office on the site, for own use, with suitable tables or benches for the examination of drawings, specifications, etc., and where all notices and instructions from the Consultant may be received and acknowledged.
- .2 Materials Storage: Provide suitable weather and waterproof storage buildings for storage and protection of materials. These building or structures shall be under lock and key maintained in good condition until the completion of the project.

**1.5 Equipment, Tools, Handling, & Storage**

- .1 The Contractor is to provide and maintain, in a clean and orderly condition, lockable weatherproof sheds for storage of tools,

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equipment and materials to protect against the elements;

- .2 Locate materials not required to be stored in weatherproof sheds on site in manner to cause least interference with Work activities;
- .3 Handle and storage of products to prevent damage, adulteration, deterioration and soiling in accordance with manufacturer's instructions when applicable.
- .4 Store packaged or bundled products in original and undamaged condition. Ensure manufacturer's seals and labels intact are visible and intact.

**1.6 Utilities**

- .1 Water Supply:
  - .1 The Contractor is to provide a continuous supply of potable water;
  - .2 Arrange for connection with appropriate utility company and pay costs for installation, maintenance and removal;
  - .3 Pay for utility charge at prevailing rates.
- .2 Telephone:
  - .1 The Contractor is to be available by mobile phone or page system while the Work is in progress, during working hours. All costs shall be borne by the Contractor.
- .3 Electric Power:
  - .1 Supply: Electric power for all construction requirements, as required to be provided by the Contractor.

**1.7 Dust Barriers and Protection**

- .1 Dust Nuisance and Sidewalk Control: The Contractor shall prevent nuisance to adjacent properties near the works from dust rising by taking appropriate anti-dust measures, at such time as found necessary and as directed by the Consultant, or at any other times complaints of dust are received from the public by either the Contractor or the Consultant. Keep walkways broom-cleaned at all times.

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**1.8 Site Storage & Loading**

- .1 Confine the Work and operations of employees to limits indicated by Contract Documents. Do not unreasonably encumber premises with products.
- .2 Do not load or permit to be loaded any part of the Work with a weight or force that will endanger the Work.

**1.9 Construction Aids**

- .1 Work shall include all temporary roads and walks required for construction purposes. Remove them when no longer required, or at project completion. Completely restore all surfaces disturbed by temporary roads and walks.
- .2 Work shall include adequate temporary bridges and crossings over water mains, sewers, heating lines, telephone and electrical conduits and any other buried services.
- .3 Work shall include temporary culverts and ditches to provide adequate site drainage within the site and to maintain existing drainage off-site.
- .4 Furnish all necessary transportation, scaffolding, forms, labour, tools and mechanical appliances, machinery services and material required for executing the work.
- .5 Provide for access of emergency vehicles to premises at all times.
- .6 Provide dewatering system, as necessary.

**1.10 Dewatering**

- .1 Provide for access of emergency vehicles to premises at all times. Temporary drainage and pumping facilities; keep excavations and site free from standing water.

**1.11 Sanitary Facilities**

- .1 Provide sufficient sanitary facilities for workers in accordance with local health authorities.
- .2 The Contractor must maintain in clean condition.

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**1.12 Site Signs**

- .1 No signs or advertisements of any type are permitted. Only signs regarding safety, caution, or any instructions shall be posted.
- .2 The installation of the project sign board is required for this contract. The approximate size is 2400mm x 2400mm. The City of Brampton will provide the required information to be displayed on the project sign. Cost to be borne by the Contractor. The City of Brampton is to provide template on request.
- .3 The installation of the project's sign board will be by the Contractor.
- .4 Prior to installation of the sign, the Contractor must submit the appropriate shop drawing(s) for Consultant approval.

**1.13 Hoarding and Security Fencing**

- .1 Erect and maintain hoarding and security fencing where indicated on Contract Document drawings or as directed by the Consultant to protect workers, public and private property from injury or damage. Maintain the hoarding and security fencing removal is directed by the Consultant.
- .2 The tree protection area(s) are beyond the tree(s) corresponding drip line. Refer to the Contract Document drawings for the extent(s).

**1.14 Local Streets and Traffic**

- .1 Provide all necessary flag people, detour signs, warning lights, signs and barricades necessary to direct and protect pedestrian and vehicular traffic in accordance with the municipal traffic control manual and traffic management plan approved by the appropriate road authority.
- .2 Strengthen, repair, and maintain the shoulders of the roads in order to accommodate traffic.
- .3 Provide access to branch streets, service stations, private and commercial properties along the line of construction, unless otherwise ordered by the Consultant. During the duration of construction, keep all fire hydrants free from obstruction of any kind.
- .4 The Contractor is to obtain all necessary permits such as Road Occupancy for the duration of the construction. Costs for permits shall be borne by the Contractor.

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**1.15      Construction Safety Measures**

- .1      The Contractor shall observe and enforce construction safety measures required by the latest issue of the Canadian Safety Code, Occupations Health and Safety Act and Regulations for construction. Projects as well as all other applicable legislation, Worker's Compensation Act and jurisdictional authorities.
- .2      In the event of conflict between applicable regulations the most stringent provisions shall be followed.

**1.16      Safeguards**

- .1      In addition to the requirements of all applicable safety legislations, provide temporary safeguards and protection adequate to protect against:
  - .1      Accident or injury to any Work person and other persons on the site, adjacent Work and property, roads and walks.
  - .2      Damage to any part of the Work and to any adjoining or adjacent structure, property, pavement, walks, services, and other similar items by frost, weather overloading and any other cause resulting from the execution of Work.
- .2      Should any part of the Work or any building, pavements, trees, poles, hydrant, and cultivated or grassed areas, etc, on or surrounding the site and adjacent to any road leading thereto, become damaged or disfigured due to lack or failure of such protection, they shall make good with material identical with existing and adjoining surfaces or the Owner shall be compensated for value of same.
- .3      Provide all necessary temporary enclosures, boarding, fences, gates, guardrails, hoists, stairs, ladders, scaffolding, staging, runways, night-lights, and barriers for the Work. All such apparatuses shall meet all requirements of the labour laws and other provincial or local labour safety requirements of the labour laws and other provincial or local labour safety laws, applicable thereto.
- .4      Should Work be stopped for any cause, provide protection for the Work and all necessary temporary cold weather heating during all such periods of Work stoppages.
- .5      Keep all portions of the Work properly and effectively drained during

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construction and until completion and the Contractor will be held responsible for all damages which may be caused or result from water backing up or flowing over, through, from or along any part of the works, whether such damage is to the works or neighbouring properties.

**1.17 Reporting of Accidents**

- .1 The Contractor shall immediately notify the Consultant or delegate of any work place accidents involving injury to staff or property damage, giving full details of occurrences and subsequent action taken.

**PART 2 PRODUCTS (Not Applicable)**

**PART 3 EXECUTION (Not Applicable)**

**END OF SECTION - 01500**