

**1 SUBMITTALS**

- .1 Make submittals according to the Conditions of the Contract and the applicable Division 01 Specification Sections.
- .2 Prepare a site plan indicating the proposed location and dimensions of the area to be fenced and used by the Contractor, the number of trailers to be used, avenues of ingress/egress to the fenced area and details of fence installation.
  - .1 Identify areas which have to be gravelled to prevent tracking of mud.
  - .2 Indicate the use of a supplemental or other staging area.

**2 INSTALLATION/REMOVAL**

- .1 Provide construction facilities and temporary controls as required to execute the Work expeditiously.
- .2 Prior to Substantial Completion, remove from the site all construction facilities and temporary controls.
- .3 Make good any damage to or disturbance of existing property caused by such work. Restore affected existing property to a condition at least equal to that which existed prior to construction.

**3 TEMPORARY ELECTRICAL POWER AND LIGHTING**

- .1 Provide and pay for temporary power required during construction for temporary lighting and operating of power tools.
- .2 Connect to delivery points in accordance with the Canadian Electrical Code and to the satisfaction of the local authority having jurisdiction. Provide all equipment and temporary lines to bring power services to the point of use. Provide flexible power cords as required.
- .3 Provide and pay for additional temporary lighting equipment required for the proper execution of specific tasks. Provide branch wiring from the power source to distribution boxes with lighting conductors, pigtails and lamps, as required.
- .4 Provide and maintain temporary lighting to interior and exterior staging and storage areas, after dark, for security purposes.
- .5 Electrical power and lighting systems installed under this Contract may be used for construction requirements only with the prior approval of the Consultant provided that guarantees are not affected. Make good damage to the electrical system caused by use under this Contract. Replace lamps which have been used for more than 3 months.

**4 TEMPORARY COMMUNICATION FACILITIES**

- .1 Provide telephone and facsimile machine for own use and the use of the Consultant.
- .2 The cost of long distance telephone calls and telecopier transmissions shall be paid for by the

respective party.

## **5 TEMPORARY WATER SERVICE**

- .1 Provide and pay for water service required for construction use. Connect to delivery points to the approval of the authorities having jurisdiction.
- .2 Provide all equipment and temporary lines to bring water to the point of use. Provide flexible hoses as required.

## **6 FIRE PROTECTION**

- .1 Provide and maintain temporary fire protection equipment during the performance of the Work required by insurance companies having jurisdiction and governing codes, regulations and bylaws.
- .2 Maintain access to property including overhead clearances for use by emergency response vehicles.

## **7 DEWATERING**

- .1 Provide temporary drainage and pumping facilities to keep excavations and site free from standing water.

## **8 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 a sediment and erosion control plan, specific to the 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.

## **9 SCAFFOLDING**

- .1 Design, erect and maintain scaffolding in accordance with CAN/CSA-S269.2.
- .2 Provide and maintain scaffolding, ramps, ladders, swing staging, platforms and temporary stairs as required to perform the Work.

## **10 HOISTING**

- .1 Provide, operate and maintain hoists and cranes required for moving of workers, materials and equipment.
- .2 Hoists and cranes to be operated by qualified operators.

**11 SITE STORAGE/LOADING**

- .1 Refer to CCDC 2, GC 3.1 1 .
- .2 Confine work and operations of employees to the construction area designated in the Contract Documents. Do not unreasonably encumber the premises with products.

**12 CONSTRUCTION PARKING**

- .1 Parking will be permitted on site only within the designated construction area.

**13 PROTECTION AND MAINTENANCE OF TRAFFIC**

- .1 Provide access and temporary relocated roads as necessary to maintain traffic.
- .2 Maintain and protect traffic on affected roads during the construction period except as otherwise specifically directed by the Consultant.
- .3 Provide measures for protection and diversion of traffic, including the provision of watch-persons and flag-persons, erection of barricades, placing of lights around and in front of equipment and work, and erection and maintenance of adequate warning, danger, and direction signs
- .4 Protect the travelling public from damage to persons and property.
- .5 The Contractor's traffic on roads selected for hauling material to and from site must interfere as little as possible with public traffic.
- .6 Verify the adequacy of existing roads and allowable load limits on these roads. The Contractor shall be responsible for repair of damage to roads caused by construction operations.
- .7 Construct access and haul roads necessary.
- .8 Construct haul roads with suitable grades and widths. Avoid sharp curves, blind corners, and dangerous cross traffic.
- .9 Provide necessary lighting, signs, barricades, and distinctive markings for the safe movement of traffic.
- .10 Provide adequate dust control to ensure safe operation at all times.
- .11 The locations, grades, widths, and alignment of construction and hauling roads is subject to approval by the Consultant.
- .12 Provide adequate lighting to ensure full and clear visibility for the full width of haul roads and work areas during night-work operations.
- .13 Remove, upon completion of the work, haul roads designated by the Consultant.

**14 FIELD OFFICES**

- .1 Provide office space, cooled and heated to approximately 22°C, lighted to 750 lx and ventilated, of sufficient size to accommodate site meetings and furnished with seating for all persons and equipped with a drawing laydown table
- .2 Provide a clearly identified and fully stocked first aid case in a readily available location.
- .3 Subcontractors to provide their own offices as necessary. Limit the location of these offices to a designated area.

**15 EQUIPMENT, TOOL AND MATERIALS STORAGE**

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

**16 SANITARY FACILITIES**

- .1 Provide sanitary facilities for the work force in accordance with governing regulations and ordinances.
- .2 Post notices and take precautions as required by local health authorities. Keep the area and premises in a sanitary condition.
- .3 The permanent water and drain connections to the building may NOT be used for temporary sanitary. Permanent facilities inside the building may NOT be used.

**17 CONSTRUCTION SIGNAGE**

- .1 Provide and erect project sign, within three weeks of signing Contract, in a location designated by the Consultant.
- .2 Provide space for Owner's/Consultant's provided signage.
- .3 Provide signs and notices for safety and instruction in both official languages, graphic symbols to CAN/CSA-Z321.
- .4 Other signs or advertisements are not permitted on site without the Owner's approval.
- .5 Maintain approved signs and notices in good condition for the duration of the project and dispose of on completion of the Work or earlier if directed by the Consultant.

**18 HOARDING**

- .1 Erect temporary site enclosures using the following:
  - .1 Temporary chain-link fencing with required ballasts and/or footings. Minimum fence height of

2400 mm.

- .2 Erect fencing to prohibit all unauthorized access to the construction area.
- .3 Provide a lockable truck entrance, gated as required. Equip gates with locks and keys.
- .4 Erect and maintain pedestrian walkways including roof and side covers, complete with signs and electrical lighting as required by law.
- .5 Provide barriers around trees and plants designated to remain. Protect from damage by equipment and construction procedures.

## **19 GUARD RAILS AND BARRICADES**

- .1 Provide secure, rigid, guard rails and barricades around deep excavations, open shafts, open stair wells, open edges of floors and roofs, and other areas required by governing authorities.
- .2 Provide and install as required by governing authorities.

## **20 PROTECTION FOR OFF-SITE AND PUBLIC PROPERTY**

- .1 Protect surrounding private and public property from damage during performance of the Work.
- .2 Be responsible for damage incurred.

## **21 PROTECTION OF INSTALLED WORK**

- .1 Protect installed work and provide special protection where specified in individual specification Sections.
- .2 Provide temporary and removable protection for installed products. Control activity in the immediate work area to prevent damage.
- .3 Provide protective coverings at walls, projections, jambs, sills and soffits of openings.
- .4 Confirm with the Consultant the locations and installation schedule 3 days prior to installation.
- .5 Prohibit traffic from landscaped areas.
- .6 Be responsible for damage incurred due to lack of or improper protection.

## **22 SECURITY**

- .1 Provide security and facilities as required to protect the Work from unauthorized entry, vandalism or theft.

## **23 PROJECT CLEANLINESS**

- .1 Maintain the Work in tidy condition, free from accumulation of waste products and debris.
- .2 Remove debris and rubbish from pipe chases, plenums attics, crawl spaces or other closed or remote spaces.

- .3 Broom and vacuum clean interior areas prior to the start of finish work; maintain areas free of dust and other contaminants during finishing operations.
- .4 Remove waste material and debris from site and deposit in a designated waste container at the end of each working day.
- .5 Clean dirt or mud tracked onto paved or surfaced roadways.
- .6 Open free-fall chutes are not permitted. Terminate closed chutes into appropriate containers with lids.

**END OF SECTION**