

01025 Temporary Facilities**Index**

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01025-1 General**1.1 Description**

This section establishes requirements for all temporary facilities including the following:

1. Access
2. Contractor's site office
3. Engineer's site office
4. Storage sheds
5. Sanitary facilities
6. Parking
7. Security systems
8. Power
9. Water supply
10. Heating and ventilation
11. Drainage
12. Signs and notices
13. Mobilization
14. Removal of temporary facilities
15. Maintenance of site
16. Maintenance of traffic

1.2 Definitions**1.2.1 Mobilization**

Mobilization includes the following:

1. Supply, installation, and servicing of mobile offices, workshops, stores, housing, etc.
2. Supply and transport to site of equipment used in performing work.
3. Dismantling and removing all temporary facilities upon completion of work and restoring site to its original condition.
4. Supply and installation and subsequent dismantling and removal of materials and equipment required for maintenance of traffic.

1.2.2 Maintenance of Site

Maintenance of site includes cost of maintaining site during periods when work is delayed, as defined below:

1. Payment made under this section is subject to the terms for schedule extensions listed in General Conditions, Article 00700-34 - Delays, and is subject to approval by the Engineer.
2. Tendered unit price per day to include supervisory staff salaries and expenses, office expenses, equipment costs and operating expenses, telephone, electricity and gas, water and sanitation, labour to maintain and protect site, bond and financing costs, overhead and profit.
3. Payment made only when work is delayed throughout site for full working day. No compensation for inconvenience when work is delayed in one area of site but work continues elsewhere on site.
4. Tendered unit price not to include equipment down-time during delays, for which compensation will be negotiated if and when delay occurs.

1.2.3 Maintenance of Traffic

Maintenance of traffic requires that existing and temporary roads are kept open to traffic and in good condition.

1. Maintain existing road surfaces in original condition.
2. Supply and erect temporary signing and barricades and supply flagmen as may be required when work interferes with normal traffic flow.
3. Construct detour roads within site as indicated in drawings and maintain surfaces at all times.
4. Ensure convenience and safety of residents affected by work at all times.
5. Credit Owner for maintenance of traffic expenditures arising from emergency situations or cases when action is required by Owner due to failure on part of Contractor to perform.
6. Maintain detour signs and barricades within and outside site where indicated in drawings or by the Engineer as per standards established in the City of Saskatoon Traffic Control Manual.

1.3 Measurement for Payment

Mobilization to be paid as lump sum with 80% payable upon substantial completion of mobilization as determined by the Engineer, and remaining 20% payable upon total performance of the work.

Maintenance of site to be measure in working days.

Maintenance of traffic to be paid on a cost plus basis in accordance with Article 00700-24 of the General Conditions, and:

1. No payment for maintenance of existing road surfaces within site, initial supply and erection of temporary signs and barricades, construction and maintenance of detours within site.
2. Payment to include replacement of signs and barricades damaged by causes not under the control of the Contractor, maintenance of existing road surfaces outside site, supply of flagmen, inspection and maintenance of detour signs and barricades inside and outside site.

01025-2 Execution**2.1 Access**

Provide and maintain adequate access to project site.

Build and maintain temporary roads and provide snow removal during period of work.

If authorized to use existing roads for access to project site, maintain such roads for duration of Contract and make good damage resulting from Contractor's use of roads.

2.2 Contractor's Site Office

Provide office of size to accommodate site meetings and furnished with drawing laydown table, drawing storage rack, three-drawer filing cabinet, shelving and coat hooks when required by Section 01005, Specific Conditions.

Install lighting to provide 750 lx using surface mounted shielded, commercial fixtures with 10% upward light component.

Heat to maintain 22° C inside temperature. Provide two operable windows for cross ventilation.

Provide telephone in Contractor's site office. Pay telephone is not acceptable.

2.3 Engineer's Site Office

Provide temporary office for Engineer when required by Section 01005, Specific Conditions.

Inside dimensions minimum 3.6 m long x 3 m wide x 2.4 m high with floor .1 m above grade, complete with 50% opening windows and one lockable door.

Insulate building and provide heating system to maintain 22° C inside temperature at -20° C outside temperature.

Finish inside walls and ceiling with plywood, hardboard or wallboard and paint in selected colours. Finish floor with 19 mm thick plywood.

Install electrical lighting system to provide minimum 750 lx using surface mounted, shielded commercial fixtures with 10% upward light component.

Arrange and pay for telephone in Engineer's office for his exclusive use. Long distance calls placed on this telephone will be paid for by Engineer.

Provide private washroom facilities adjacent to office complete with flush or chemical type toilet, lavatory, mirror and maintain supply of paper towels and toilet tissue.

Equip office with 1 m x 2 m table, four chairs, 6 m of shelving 300 mm wide, one three-drawer filing cabinet, one plan rack and one coat rack and shelf.

Maintain in clean condition.

2.4 Storage Sheds

Provide adequate weathertight sheds with raised floors, for storage of materials, tools, and equipment which are subject to damage by weather.

2.5 Sanitary Facilities

Provide sanitary facilities for work force in accordance with governing regulations and ordinances.

Post notices and take such precautions as required by local health authorities. Keep area and premises in sanitary condition.

2.6 Parking

Parking space will be made available on-site. Maintain and administer this space as directed by the Engineer.

2.7 Site Enclosures

Erect temporary site enclosure using new 1.2 m high snow fence wired to rolled steel "T" bar fence posts spaced at 2.4 m oc. Provide one lockable truck gate. Maintain fence in good repair.

Site enclosures required as indicated on Drawings.

2.8 Security Systems

Ensure safety of all equipment and materials on-site. Repair or replace damaged equipment or materials regardless of cause of damage.

Prevent damage to lines and grades established by Engineer. Re-establish lines or grades that become damaged by any cause.

Maintain concrete finishes free from imperfections, regardless of cause, until acceptance of job. Repair damage to concrete surface at no additional cost to Owner.

Take responsibility for safety of all work performed under this Contract and of all existing structures within limits of Contract. Repair damage at no additional cost to Owner.

2.9 Power

Arrange, pay for and maintain temporary electrical power supply in accordance with governing regulations and ordinances.

Install temporary facilities for power such as pole lines and underground cables to approval of local power supply authority.

2.10 Heating and Ventilation

Pay for costs of temporary heat and ventilation used during construction, operation, maintenance and removal of equipment. Use of direct-fired heaters discharging waste products into work areas will not be permitted unless prior approval is given by the Engineer.

Furnish and install temporary heat and ventilation in enclosed areas as required to:

1. Facilitate progress of work.
2. Protect work and products against dampness and cold.
3. Prevent moisture condensation on surface.
4. Provide adequate ambient temperatures and humidity levels for storage, installation and curing of materials.
5. Provide adequate ventilation to meet health regulations for safe working environment.

Ventilating must achieve the following:

1. Prevent hazardous accumulations of dust, fumes, mists, vapours or gases in areas occupied during construction.
2. Provide local exhaust ventilation to prevent harmful accumulation of hazardous substances into atmosphere of occupied areas.
3. Dispose of exhaust materials in a manner that will not result in harmful exposure to persons.
4. Ventilate storage spaces containing hazardous or volatile materials.
5. Ventilate temporary sanitary facilities.
6. Continue operation of ventilation and exhaust system for time after cessation of work process to assure removal of harmful elements.

Maintain strict supervision of operation of temporary heating and ventilating equipment.

1. Enforce safe practices.
2. Prevent abuse of services.
3. Enforce conformance with applicable codes and standards.

4. Prevent damage to finishes.
5. Vent direct-fired combustion units to outside.

2.11 Drainage

Refer to Section 01035 for site drainage and pumping requirements.

2.12 Site Signs and Notices

Only Project Identification and Consultant/Contractor signboards and notices for safety or instruction are permitted on site.

Format, location and quantity of site signs and notices to be approved by the Engineer.

Signs and notices for safety or instruction to be in English language or commonly understood graphic symbols.

Maintain signboards, signs and notices for duration of project. Remove and dispose of signs off-site when directed by the Engineer.

Erect, maintain, and subsequently dismantle as directed by the Engineer any project signs supplied by the Owner.

2.13 Removal of Temporary Facilities

Remove temporary facilities from site when directed by the Engineer.

When project is closed down at end of construction season, keep facilities operational until close down is approved by the Engineer.

Restore site to original condition to satisfaction of the Engineer.

2.14 Traffic Operations

Maintain, control and safeguard traffic within and immediately abutting site and maintain detour signing on detours outside site indicated on Drawings.

Conform to City Traffic Bylaw.

Vehicles with gross weight greater than 5,000 kg to use routes designated in General Conditions.

Requests for street closures to be made through Engineer.

Provide emergency access for police and fire units at all times.

Provide access to private property for local traffic except when such access would prevent work from being completed.

Advise Engineer if modifications to traffic signals operation by Owner is required, such modification at no cost to Contractor.

Construct, sign, and maintain detours to RTAC standards, City of Saskatoon Traffic Control Manual and to approval of the Engineer.

2.15 Site Maintenance

Maintain site at all times. This includes supervision of site maintenance of offices and utilities, maintenance of equipment, daily clean-up, and general care.

End of Specification 01025