

PART 1 - GENERAL

1.1 SECTION
INCLUDES

- .1 Construction aids.
- .2 Parking.
- .3 Offices and facilities.
- .4 Project signage.
- .5 Non-potable Water Well.

1.2 MEASUREMENT AND
PAYMENT

- .1 Payment for Construction Facilities as described herein or otherwise viewed as incidental to the Work shall be according to Lot Price. The Lot Price shall be full compensation for all labour, equipment, material and other costs incurred to do the Work including but not limited to:
 - .1 Mobilization/demobilization including all plant, labour and material as necessary to mobilize to execute the Work as described in the Contract Documents and demobilization at the end of the Work. Interim mobilizations and demobilizations as required shall be included as well.
 - .2 Provision and installation of temporary ancillary buildings, and maintenance and operation of all ancillary buildings and facilities:
 - .1 Departmental Representatives trailers.
 - .2 Elliott Road Main Access and Security Kiosk.
 - .3 Provide and maintain security.
 - .4 PGWMF Main Access and Security Kiosk.
 - .5 Contractor's trailer complex for workforce lunch room/changing/decontamination and first aid.
 - .6 Personnel contamination monitoring facility/area (portable contamination meters/manual frisking).
 - .7 Decontamination and first aid facilities.
 - .8 Radio communications.
 - .3 Provision of vehicles for Departmental Representative use as specified below in accordance with the schedule for the duration of the Work, including:

1.2 MEASUREMENT AND .1
PAYMENT
(Cont'd)

- (Cont'd)
- .3 (Cont'd)
 - .1 Vehicles: late model, 4WD crew cabs with box/bed liners and covers, complete with maintenance package.
 - .1 Vehicle 1: for full-time use.
Paid for by Lot Price.
 - .2 Vehicle 2: paid on daily unit rate based on 750 days.
 - .4 Provision (except where noted), installation, operation and maintenance of:
 - .1 Two wheel wash units.
 - .2 Two Owner-supplied weigh scales. (Foundations by Contractor, installation and calibration by Owner, operation and maintenance by Contractor).
 - .3 Weigh-scale kiosk to be supplied, installed and maintained by the Contractor.
 - .4 Two Owner-supplied equipment radioactivity monitoring portals. (Foundations by Contractor, installation and calibration by Owner, operation and maintenance by Contractor).
 - .5 Equipment decontamination facility.
- .2 Lot Price (by Allowance) for the installation, operation and maintenance of a non-potable groundwater well at the PGWMF to provide a sufficient water supply to construction facilities or otherwise required to perform the Work. Price to include drilling and well installation, testing, Permit to Take Water (PTTW), records, furnishing and installation of pumps, piping and appurtenances, connection and conveyance to applicable construction facilities/location of use as required.

1.3 REFERENCES

- .1 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB 1.189-2000, Exterior Alkyd Primer for Wood.
 - .2 CAN/CGSB 1.59-97, Alkyd Exterior Gloss Enamel.
- .2 Canadian Standards Association (CSA International)
 - .1 CSA-A23.1-09/A23.2-09, Concrete Materials and Methods of Concrete Construction/Methods of Test and Standard Practices for Concrete.
 - .2 CSA-O121-08, Douglas Fir Plywood.

1.3 REFERENCES
(Cont'd)

- .2 (Cont'd)
- .3 CAN/CSA S269.2-M87(R2003), Access Scaffolding for Construction Purposes.
- .3 Municipality of Clarington Sign By-law, 2009-0123, January 2010.
- .4 American National Standards Institute (ANSI)
 - .1 ANSI N42.38-2006, Performance Criteria for Spectroscopy-Based Portal Monitors Used for Homeland Security.
 - .2 ANSI N42.42-2006, Data Format Standard For Radiation Detectors Used For Homeland Security.
- .5 International Organization for Standardization (ISO).
 - .1 ISO 9001:2008 Quality Management Systems - Requirements.
- .6 Ontario Water Resources Act , R.R.O. Regulation 903 - Wells.

1.4 SUBMITTALS

- .1 Where indicated provide submittals in accordance with Section 01 33 00.
- .2 Prepare and submit, within 20 working days following award and prior to mobilization, site plan to be approved by the Departmental Representative indicating:
 - .1 Proposed location (coordinates) and dimensions of area to be fenced and used by Contractor.
 - .2 Location of all components.
 - .3 Avenues of ingress/egress to fenced area and details of fence installation.
 - .4 Location of weigh scales and scale kiosk(s).
 - .5 Location of wheel wash facilities.
 - .6 Location of radiation portal monitors.
 - .7 Identify areas which have to be gravel surfaced to prevent tracking of mud.
 - .8 Indicate use of supplemental or other staging area(s).
 - .9 Identify Uncontrolled and Controlled Areas and establish RPP Work Zones in accordance with Section 01 35 30.

1.5 SCAFFOLDING

- .1 Scaffolding in accordance with CAN/CSA S269.2.
 - .2 Provide and maintain scaffolding ramps ladders swing staging platforms and temporary stairs.
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1.6 HOISTING

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

1.7 SITE
STORAGE/LOADING

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

1.8 CONSTRUCTION
PARKING

- .1 Parking shall be permitted in designated areas on site provided it does not disrupt performance of Work.
- .2 Provide and maintain adequate access to project site.
- .3 Build and maintain temporary roads where indicated and provide snow removal during period of Work.
- .4 Use existing roads as authorized for access to project site, maintain such roads for duration of Contract and make good damage resulting from Contractors' use of roads.

1.9 SECURITY

- .1 Provide and maintain security kiosks for responsible security personnel to guard site and contents of site (in accordance with paragraph 1.11). Locate security guards at main gates/entrances.
- .2 Contractor to provide full-time video surveillance of the site which is manned 24/7 during off hours.
- .3 Minimum response time for security incidents shall be 30 minutes.
- .4 Digital files of security videos shall be the property of the Departmental Representative and shall be submitted to the Departmental Representative as a component of the weekly report.

1.10 OFFICES

- .1 Provide Contractor's field office heated to 22°C, lighted 750 lx and ventilated, of sufficient size to accommodate site meetings and furnished with drawing laydown table.
- .2 Provide lunch and first aid facilities for work force in accordance with governing regulations and ordinances. First aid facility to include a clearly marked and fully stocked first-aid case in a readily available location.
- .3 Subcontractors may provide their own offices, equipment, tool and material storage trailers as necessary. Direct location of these facilities.
- .4 Departmental Representative's Site offices.
 - .1 Provide one weatherproof, insulated office trailer 3 m wide x 15 m long x 2.4 m clear inside height on the LTWMF site in Uncontrolled Area. Number of rooms: two offices, one meeting room, one kitchenette. Complete with 50% opening windows with fly screens. Two exterior doors fitted with cylinder locks with the Departmental Representative in possession of all keys.
 - .2 Provide one weatherproof, insulated office trailer, 3.6 m wide x 10 m long x 2.4 m clear inside height on the PGWMF site in Uncontrolled Area. Number of rooms: one office, one meeting room, one kitchenette. Complete with 50% opening windows with fly screens. Two exterior doors fitted with cylinder locks with the Departmental Representative in possession of all keys.
 - .3 Insulate buildings. Provide heating and cooling systems to maintain 22° C inside temperature at -20° C outside temperature and cooling system to maintain an indoor uniform temperature of 20 to 22 degrees Celsius.
 - .4 Finish inside walls and ceilings with plywood, hardboard or wallboard and paint in selected colours. Finish floor with 19 mm thick plywood complete with sheet vinyl flooring.
 - .5 Install electrical lighting systems to provide minimum 750 lx using surface mounted, shielded commercial fixtures with 10% upward light component.

1.10 OFFICES
(Cont'd)

- .4 (Cont'd)
 - .6 Provide private washroom facilities adjacent to offices complete with flush or chemical type toilet, lavatory and mirror and maintain supply of paper towels and toilet tissue.
 - .7 Equip each office with the following:
 - .1 Desks, 3 - 750 x 1500.
 - .2 Computer chairs, 3.
 - .3 Folding tables, 3 - 900 x 1800.
 - .4 Steel folding chairs, 6.
 - .5 Drafting/drawing desk, built into one of the office rooms.
 - .6 Drafting stool, one.
 - .7 Four drawer, lockable file cabinet, one.
 - .8 Bookcase, 1 - 900 x 2100 high.
 - .9 Waste baskets, 5.
 - .10 Wall mounted coat rack.
 - .11 First aid kit.
 - .12 4.5 kg fire extinguisher, one.
 - .13 Telephone: minimum of 3 incoming/outgoing lines, 3 touch tone phones with conference speaker and a minimum 3.6 m of coiled headset cord. Provide separate fax line. Provide separate high speed internet service. Provide appropriate pre-wired phone and computer jacks through the trailer necessary for a completed and fully functional telephone system.
 - .14 Photocopier: one colour scanner/copier/printer (up to 279 x 432). Include a maintenance service agreement for the duration of the contract.
 - .15 Potable bottled water cooler/dispenser and bottled water supply.
 - .16 Mini-fridge.
 - .8 Maintain clean, heat and light the office throughout the duration of the construction period.
- .5 Security and Scale Kiosk(s).
 - .1 Provide two weatherproof, insulated security kiosks, locate one at the Nichols Road Entrance and one at the Elliott Road entrance, as directed by the Departmental Representative.
 - .2 Provide one weatherproof, insulated scale house, locate as directed by the Departmental Representative.
 - .3 Provide Security and Scale Kiosks to the following:

1.10 OFFICES
(Cont'd)

.5 (Cont'd)

.3 (Cont'd)

- .1 2.4 m wide x 3.0 m long x 2.4 m clear inside height. One room, three 1.2 m x 1.0 m sliding windows.
- .2 Provide heating and cooling systems to maintain a uniform indoor temperature of 20 to 22 degrees Celsius.
- .3 Finish inside walls and ceiling. Finish floor with sheet vinyl.
- .4 Electric lighting system to provide min. 750 lx using surface mounted, shielded commercial fixtures with 10% upward light component.
- .5 Equip office with desk or full width counter top and computer chair, one lockable file cabinet, one coat rack and shelving.
- .6 Telephone: incoming/outgoing line, touchtone phone with a minimum of 3.6 m coiled handset cord. Provide separate fax line. Provide separate high speed internet service. Provide appropriate pre-wired phone and computer jacks throughout the trailer necessary for a completed and fully functional telephone system.

.6 Sample Prep and Storage Trailer:

- .1 Provide one weatherproof, insulated trailer 3.6 m wide x 10 m long x 2.4 m clear inside height on the PGWMF site in Controlled Area/RPP Zone 2. Subdivide into two equal separate and lockable spaces complete with 50% opening windows with fly screens. Two exterior doors fitted with cylinder locks with the Departmental Representative in possession of all keys.
- .2 Trailer insulation, interior finishes and electrical lighting systems same as office trailers.
- .3 Equip each space/side of the trailer with the following:
 - .1 One desk and chair.
 - .2 Four drawer lockable file cabinet.
 - .3 Wastebasket.
 - .4 Wall mounted coat rack.
 - .5 First aid kit.
 - .6 4.5 kg fire extinguisher.
 - .7 Water supply (12 L/min).
 - .8 Sink.
 - .9 Counter, full length, long direction.

1.10 OFFICES
(Cont'd)

- .6 (Cont'd)
- .3 (Cont'd)
- .7 All trailer windows to be protected with metal bars and all doors to have metal plate with padlock capability.
- .8 All trailers to be leveled, anchored and skirted.
- .9 For all trailers and temporary buildings provide wood stairs, platform and boardwalk, painted and repainted as required with non-skid abrasive paint.
- .10 Ownership of equipment furnished under this subsection shall remain, unless otherwise specified in the Contract Documents, that of the Contractor.
- .11 Equipment furnished shall be new or like new in appearance and function.

1.11 EQUIPMENT,
TOOL AND MATERIALS
STORAGE

- .1 Provide and maintain, in a 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 a manner to cause least interference with work activities.

1.12 SANITARY
FACILITIES

- .1 Provide enclosed sanitary facilities (washcar/restroom trailer) within Uncontrolled Area at both the LTWMF and PGWMF sites complete with hand washing facilities for work force in accordance with governing regulations and ordinances.
- .2 Post notices and take such precautions as required by local health authorities. Keep area and premises in sanitary condition.
- .3 All sanitary facilities provided to be equipped with individual holding tanks.
- .4 Remove waste and wastewater from site on a regular basis as required in accordance with the environmental specification.
- .5 Keep sanitary facilities clean and fully stocked with necessary supplies at all times.

1.13 DE-
CONTAMINATION
AND FIRST AID
STATION

- .1 Provide two temporary facility (trailers) for decontamination (in accordance with requirements of the Radiation Protection Specification Section) and for first aid (in accordance with the requirements of the Health and Safety Specification Section). One each on the LTWMF and the PGWMF sites.
- .2 Requires typical:
 - .1 Clean Room:
 - .1 Locker with emergency clothing for one.
 - .2 Bench.
 - .3 Floor drain plumbed to holding tank.
 - .4 Clothes hooks.
 - .5 Roof Vent.
 - .6 Air conditioning and heater.
 - .2 Dirty Room:
 - .1 Bench, clothes hooks, clothes hamper.
 - .2 HEPA air filtration system.
 - .3 Shower stall with privacy curtain.
 - .1 Shower head with H/C controls.
 - .2 Floor drain to holding tank, with containment berm.
 - .4 Single cot with first aid post.

1.14 TIRE AND
UNDERCARRIAGE WASH
SYSTEMS

- .1 Provide and operate two wheel-wash systems compliant with the radiation, environmental and Health & Safety plans suitable for the expected site conditions.
- .2 Contractor is to submit the detailed design including narrative of operations for review by the Departmental Representative. Departmental Representative comments shall be incorporated into the final design.
- .3 Provide all designs, labour, materials, equipment, parts and incidentals required for the fabrication, installation, operation and maintenance of two completely automatic, touch less, heavy-duty tire and undercarriage wash and water reclamation systems for the duration of the Project along with all ancillary facilities and components, including water recycling tank and all necessary pipes, valves, pumps, controls and indicators.
- .4 Wash systems shall be designed so that vehicles are contained within a fully enclosed space and bermed appropriately) during washing to limit the release of fluids and wash mist beyond enclosed area.

1.14 TIRE AND
UNDERCARRIAGE WASH
SYSTEMS
(Cont'd)

- .5 Contractor is to commission the wheel wash systems to the satisfaction of the Departmental Representative. Waste excavation shall not occur until the wheel wash units are operational.
- .6 The Contractor is solely responsible for ensuring equipment performance and operational efficiency to meet the performance criteria as determined by the radiation protection requirements. Contractor shall make all required adjustments to ensure proper operation throughout the duration of the Project. Failure to maintain the wheel wash systems in operational condition can be considered as a stop work item for the Departmental Representative. Should the equipment performance or operational efficiency not meet the performance criteria, the Contractor shall modify, add, and /or alter the equipment or operational procedures at his/her own expense until the system operation has met the performance criteria.

1.15 TRUCK WEIGH
SCALE AND SCALE
HOUSE

- .1 Contractor to install scale foundations in accordance with manufacturers drawings located in Appendix Y to suit the equipment being supplied.
- .2 The locations of the scales and scale house(s) are to be outlined in the site plan and approved by the Departmental Representative.
- .3 Contractor to provide qualified operators to operate the scales and provide documentation confirming operator qualifications.
- .4 References:
 - .1 Government of Canada Weights and Measures Act 1985.
 - .2 Government of Canada Weights and Measures Regulations 1990.
- .5 The Owner shall provide two platform weigh scale decks and associated load cells, computer system, and software. Scale kiosk itself as well as provision of applicable power supply to scales and scale house by Contractor.

1.15 TRUCK WEIGH
SCALE AND SCALE
HOUSE
(Cont'd)

- .6 The Departmental Representative shall install and commission the scale decks and associated equipment in full conformance with manufacturer's recommendations and applicable regulations.
- .7 Contractor is to operate and maintain the weigh scales and associated equipment as necessary.
- .8 Payment for the weighing of material is deemed to include full compensation for all labour, equipment and material required to carry out the weighing operation including any delay or inconvenience due to checking or testing carried out by the Departmental Representative.
- .9 The scale shall be located in a radiological Controlled Area. Weighing of the various axle combinations in more than one operation shall not be permitted.
 - .1 Vehicles shall enter and leave the platform at a maximum speed of 8.0 km/hr.
 - .2 The scale platform and mechanisms shall at all times be maintained clean and free from all deleterious materials.
 - .3 The mass indicator mechanism shall be enclosed in the scale house or trailer which shall be located in a radiological Controlled Area. The mass recording device shall clearly indicate the mass so that the weigh tickets can be conveniently completed by the scale operator. The weigh scale is to be equipped with an automatic printing device capable of printing tickets to conform to the requirements of the Project. Weigh tickets become part of the permanent records of the Project.
 - .4 Span calibration controls shall be sealed during the period of the operation and accessible only to the testing personnel.
 - .5 The Contractor shall supply a scale house or trailer properly ventilated and shall be clean, dry and weathertight. It shall be equipped with windows which can be opened and closed from within and from which the weigher, while seated at the console, has an unobstructed view of the vehicle to be weighed, the scale platform and the approach ramp. The scale house/trailer shall have the following:
 - .1 A means of controlling weigh tickets.
 - .2 An unobstructed door for exit in case of fire or emergency.

1.15 TRUCK WEIGH
SCALE AND SCALE
HOUSE
(Cont'd)

- .9 (Cont'd)
.5 (Cont'd)
.3 Theft and vandal proof locking devices for windows and doors.
.4 Table, chair, and bench so the scale operator can be seated during operations.
.5 Adequate ventilation, heating, cooling and lighting.
.6 The Departmental Representative reserves the right to check the accuracy or test the scales at any time. Where a device is found to be in error, in excess of the Limits of Error but less than three times the Limits of Error, the Departmental Representative shall accept material measured for payment by the device for a period of 48 hours from the time the Contractor is notified in writing that the error exceeds three times the Limits of Error. When a device is found to be in error, in excess of three times the Limit of Error, the Departmental Representative shall immediately cease to accept material measured for payment by the device.
.7 On completion of the project Owner-supplied scales and associated equipment shall be returned to the Owner.

1.16 RADIATION
PORTAL MONITOR

- .1 Contractor to install portal monitor foundations in accordance with manufacturers' drawings located in Appendix Y to suit the equipment being supplied.
.2 The Owner shall provide two complete radioassay systems (termed Radiation Portal Monitors) and associated computer system, and software. Provision of applicable power supply to Radiation Portal Monitors by Contractor.
.3 Departmental Representative shall install, commission and calibrate the Radiation Portal Monitors and associated equipment in full conformance with manufacturer's recommendations and applicable regulations.
.4 Contractor is to operate and maintain the Radiation Portal Monitors. Operator training will be provided by the Departmental Representative.

1.16 RADIATION
PORTAL MONITOR
(Cont'd)

- .5 Departmental Representative shall provide all necessary permits, licenses, leases, certifications and other special requirements for the procurement, installation, operation, maintenance, and quality assurance including third party inspections required by law, act or other regulation.
- .6 On completion of the project the Owner-supplied Radiation Portal Monitors shall be returned to the Owner.

1.17 EQUIPMENT
DECONTAMINATION PAD

- .1 Prior to commencing work involving equipment in contact with potentially contaminated materials, construct a vehicle and equipment decontamination pad in a radiological controlled area within the LTWMF to accommodate largest piece of on-site potentially contaminated equipment.
- .2 Operate, maintain and eventually deconstruct the vehicle and equipment decontamination pad.
- .3 Construction of the decontamination pad shall be in accordance with the requirements of the Environmental Procedures Specification.
- .4 A portable structure is to be provided capable of enclosing the decontamination pad to minimize the spread of airborne contamination.
- .5 Decontamination shall occur under an authorized work ticket in accordance with the RPP SOPs.
- .6 Provide, operate, and maintain suitable portable, high-pressure, low-volume decontamination wash units equipped with self-contained water storage tank and pressurizing system and capable of heating and maintaining wash waters to 80 degrees C and providing nozzle pressure of 1,035 kpa.
- .7 Provide, operate, and maintain necessary equipment, pumps, and piping required to collect and contain decontamination wastewater and sediment and transfer materials to WWTP or water management pond located in the Controlled Area that outlets to the WWTP.
- .8 Confirm to the Departmental Representative that decontaminated vehicle or equipment is satisfactory for release to the Uncontrolled Area.

1.18 CONSTRUCTION
SIGNAGE

- .1 Provide and erect, within 15 business days of signing Contract, a project identification sign in a location designated by Departmental Representative.
- .2 Construct of wood frame and plywood construction painted with exhibit lettering produced by a professional sign painter.
- .3 Indicate on sign project description information of a design style established by the Departmental Representative.
- .4 No other signs or advertisements, other than warning signs, are permitted on site.
- .5 Provide project identification site sign comprising foundation, framing, and one 1200 x 2400 mm signboard as detailed and as described below.
 - .1 Foundations: 15 MPa concrete to CAN/CSA-A23.1/A23.2 minimum 200 mm x 900 mm deep.
 - .2 Framework and battens: SPF, pressure treated minimum 89 x 89 mm.
 - .3 Signboard: 19 mm Medium Density Overlaid Douglas Fir Plywood to CSA O121.
 - .4 Paint: alkyd enamel to CAN/CGSB-1.59 over exterior alkyd primer to CAN./CGSB 1.189.
 - .5 Fasteners: hot-dip galvanized steel nails and carriage bolts.
 - .6 Vinyl sign face: printed project identification, self adhesive, vinyl film overlay.
- .6 Locate project identification sign as directed by Departmental Representative and construct as follows:
 - .1 Build concrete foundation, erect framework, and attach signboard to framing.
 - .2 Paint all surfaces of signboard and framing with one coat primer and two coats enamel. Colour white on signboard face, black on other surfaces.
 - .3 Apply vinyl sign face overlay to painted signboard face.
- .7 Signs and notices for safety and instruction shall be in both official languages Graphic symbols shall conform to CAN/CSA-Z321.
- .8 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.

1.19 RADIO
COMMUNICATIONS

- .1 Provide and maintain two channel radio communication for the duration of the Work. Supply sufficient handsets and vehicle/equipment mounted units for the following:
 - .1 Each heavy machine and (on site) haulage truck operator.
 - .2 Construction Supervisors/Foremen.
 - .3 Departmental Representative (minimum of 3).
 - .4 Scale operator(s).
 - .5 Radiological Safety Representative (RSR) and Inspectors.
 - .6 Safety Officer.

1.20 NON-POTABLE
WATER WELL/SUPPLY

- .1 Provide and install a non-potable water well at the PGWMF within fenced Uncontrolled Area north east of waste burial trenches to provide a sufficient water supply to construction facilities or otherwise required to perform the Work.
- .2 The Contractor is responsible for determining usage requirements and will prepare a Permit to take Water (PTTW) based on required usage for the property owner to submit to the MOE.
- .3 Well to be installed in accordance with O. Reg. 903 - Wells.
- .4 Provision of a non-potable well shall include drilling and well installation, testing, permits, records, furnishing and installation of pumps, piping and appurtenances, connection and conveyance to applicable construction facilities/location of use as required.
- .5 Well installation shall be performed by an licensed well driller as approved by the Departmental Representative.
- .6 The Contractor shall undertake all testing to confirm acceptability of the supply for use.
- .7 The non-potable water supply shall not be used for drinking purposes. The Contractor shall provide appropriate signage as required to indicate this to personnel.
- .8 Contractor will be responsible for providing additional offsite non-potable sources should the installed non-potable well not meet site facility servicing requirements.

1.21 SNOW REMOVAL .1 Clear snow and ice from access to buildings,
bank/pile snow in designated areas only or
remove from site as directed by the
Departmental Representative.

PART 2 - PRODUCTS

2.1 NOT USED .1 Not Used.

PART 3 - EXECUTION

3.1 NOT USED .1 Not Used.