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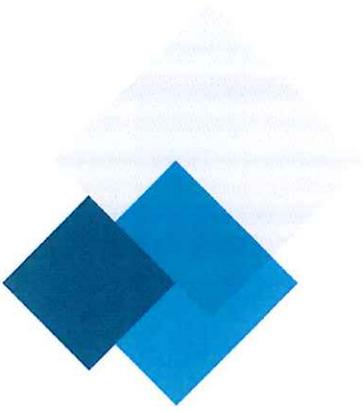
Building what matters



Parks Canada Agency
La Mauricie and Western Quebec Field Unit
Repair and modification of three docks
Fort Lennox National Historic Site
Project 45361732

**PRICE SCHEDULE,
PRICE DESCRIPTION
AND PAYMENT METHOD**
File 631689-0001-40EL-EN01-01
Revision 01
May 24, 2016





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May 24, 2016

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APPENDIX A –Pricing Schedule

This document presents the price description and payment method that accompany the price schedule for the Repair and modification of three docks at Fort Lennox National Historic Site Project.

1.0 CONTRACTOR'S GENERAL CONDITIONS

The total cost of this item is limited to 10% of the total bid.

1.1 MOBILISATION AND DEMOBILISATION

This price provides a lump-sum payment for the costs of general mobilization and demobilization of equipment, tools, personnel, materials and temporary facilities, as well as any additional mobilization potentially required to meet the work schedule.

This price will be paid in this way:

- 70 % after the placement of the various installations on the worksite.
- 30 % at the time of demobilisation and following the cleanup of the worksite.

1.2 INSTALLATIONS OF THE WORKSITE

This price provides a lump-sum payment for the costs of purchasing, amortization or renting of machinery, equipment, tooling and materials required for the installations of the worksite during the span of the worksite.

This price includes the costs associated with operation and maintenance of the machinery, equipment, tooling required for the installations of the worksite during the work. The cost of personnel to support the installations is also included.

These prices include, but are not limited to:

1.2.1 Land (cf. section 01 52 00)

- The costs for acquiring, leasing, indemnifying and using land other than the land put at the Contractor's disposal by Parks Canada Agency (PCA), either for construction facilities or temporary deposits;
- The costs for using and maintaining land put at the Contractor's disposal by PCA.

1.2.2 Development of construction facility zones (cf. section 01 52 00)

- Development of all land for construction facilities, earthworks, including brush control, stripping and topsoil stockpiling, placement of sand and gravel to prevent tracking of mud.
- Site drainage.
- Field and personnel offices.
- PCA and its representative's offices;
- Equipment storage facilities
- Outdoor storage for material and equipment

-
- Gates and fences for areas around the facilities throughout the duration of the work site, including their potential movement, as well as any temporary security measures;
 - Temporary wharves;

1.2.3 Access roads

- Missing access roads;
- Maintenance of access roads (cleaning in the summer, grading of gravel roads, and oiling);
- Temporary site signs;
- Temporary diversions, if required;
- Snow removal of temporary tracks and roads by the Contractor.

1.2.4 Materials, supplies and operation

- Lighting of construction facilities;
- Costs of transporting, installing and operating vehicles and engines;
- Watchman costs;
- Temporary quay, if required.

1.2.5 Services

- Topographic surveys;
- Bathymetric surveys to monitor the work;
- Construction method studies;
- Customs clearance, if required;
- Supplying all documents required for the work (see Section 01 33 00 of the construction specifications including shop drawings, final plans, operating and manufacturer's manuals);
- Supplying the work schedule (see Section 01 32 16.07 of the construction specifications).

1.2.6 Networks

- Washrooms at the work site;
- Water supply of construction facilities using existing fire hydrants;
- Fire protection;
- Water to compact material and for dust control;
- Power supply;
- Phone lines and Internet for its own use and the use of the supervisor.

1.2.7 Health and safety

- On-site health and safety of personnel and equipment, in accordance with the requirements of Section 01 35 29.06 of the construction specifications and applicable laws.

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1.2.8 Environment

- The protection of the environment, in accordance with Section 01 35 43 of the construction specifications and applicable laws.
- Management and disposal of construction/demolition waste (see Section 01 74 21)

1.2.9 Miscellaneous

- Boats required for work on dock B;
- Generators required for work on dock B
- The transportation of personnel;
- The collection of waste;
- All loading and unloading work;
- Costs of coordinating users of the site and contractors performing work simultaneously;
- Costs of coordinating subcontractors and suppliers;
- Site meetings;
- Supplying one (1) 6.0 m² work signboard;
- Performance testing and commissioning;
- Any other related costs for the completion of work not included in the unit/lump-sum prices.

2.0 BARGE DOCK (DOCK A)

2.1 PREPARATION

This price provides a lump-sum payment for all preparation to perform the work:

- › Demolition et disposal of existing dock;
- › Removal and recovery of the existing fence;
- › Removal and recovery of the existing paving;
- › Deforestation and stump removal;
- › Site grading;
- › Related works.

The payment will be made based on the progress of work, as approved by the Agency Representative.

2.2 STEEL SHEET PILING, TIES AND WALES

2.2.1 Frontal wall

This price provides a lump-sum payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, surveys, construction and maritime engineering, that are necessary to provide and place steel sheet piles, as well as land and marine transport. The supply and installation of all elements that are essential to complete the installation must be included.

Payment will be made by measuring the remaining sheet piles in m² after copping.

For this purpose, measure the surface area of the sheet piling by multiplying the length of a straight line passing through the median horizontal plane of the total width of the sheet piling, by the average height of the vertical piling, bottom to top, implemented and incorporated into the work.

The payment will be proportionate to the percentage of work completed and approved by the Agency Representative.

2.2.2 Anchor Wall

This price provides a lump-sum payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, surveys, construction and maritime engineering, that are necessary to provide and place steel sheet piles, as well as land and marine transport. The supply and installation of all elements that are essential to complete the installation must be included.

Payment will be made by measuring the remaining sheet piles in m² after copping.

For this purpose, measure the surface area of the sheet piling by multiplying the length of a straight line passing through the median horizontal plane of the total width of the sheet piling, by the average height of the vertical piling, bottom to top, implemented and incorporated into the work.

The payment will be proportionate to the percentage of work completed and approved by the Agency Representative.

2.2.3 Wales and ties systems

This price provides a lump-sum payment for the supply and installation of the wales and ties system as well as all and required accessories.

The payment will be proportionate to the percentage of work completed and approved by the Agency Representative.

2.3 **CONCRETE AND RELATED WORKS**

2.3.1 Front wall slab (including slab near bollard #4)

This price provides a lump-sum payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, construction and maritime engineering, that are necessary to provide and place frame, formwork and concrete according to the specifications. The supply and placement of all the elements embedded in concrete must be included.

All costs to supply these services must be included.

Payment will be made by measuring the concrete poured in-situ in cubed metres, according to the precise dimensions indicated. The concrete placed in addition to the dimensions indicated will not be considered. No deduction shall be made for the volume displaced by the steel reinforcement and steel and structural steel.

The payment will be proportionate to the percentage of work completed and approved by the Agency Representative.

2.3.2 Bollards foundations

This price provides a lump-sum payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, construction and maritime engineering, that are necessary to provide and place frame, formwork and concrete according to the specifications.

All costs to supply these services must be included.

Payment will be made by measuring the concrete poured in-situ in cubed metres, according to the precise dimensions indicated. The concrete placed in addition to the dimensions indicated will not be considered. No deduction shall be made for the volume displaced by the steel reinforcement and steel and structural steel.

The payment will be proportionate to the percentage of work completed and approved by the Agency Representative.

2.3.3 Concrete filling between steel plate and front wall

This price provides a lump-sum payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, construction and maritime engineering, that are necessary to provide and place frame, formwork and concrete according to the specifications.

All costs to supply these services must be included.

Payment will be made by measuring the concrete poured in-situ in cubed metres, according to the precise dimensions indicated. The concrete placed in addition to the dimensions indicated will not be considered. No deduction shall be made for the volume displaced by the reinforcement steel and structural steel.

The payment will be proportionate to the percentage of work completed and approved by the Agency Representative.

2.3.4 Lamp Post bases

This price provides a lump-sum payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, construction engineering, that are necessary to provide and place lamp posts bases according to the specifications (excavation and backfilling not included cf. article 2.6.3). The electrical ducts in these bases are included, but the anchors of the lamp post bases are excluded (article 2.7.5).

All costs to supply these services must be included.

The payment will be proportionate to the percentage of work completed and approved by the Agency Representative.

2.4 METAL WORKS

2.4.1 Steel plate and front wall

This price provides a lump sum payment per m² for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, construction

and maritime engineering, that are necessary to provide and place of the steel plate according to the specifications.

All costs to supply these services must be included.

Payment will be made by measuring the steel plate area on site in m².

The payment will be proportionate to the percentage of work completed and approved by the Agency Representative.

2.4.2 Wheel guards

This price provides a unit price payment per linear meter for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, construction and maritime engineering, that are necessary to provide and place of the wheel guards according to the specifications.

All costs to supply these services must be included.

Payment will be made by measuring in meters the of wheel guards installed.

The payment will be proportionate to the percentage of work completed and approved by the Agency Representative.

2.5 **FENDERS ET BOLLARDS**

2.5.1 Fenders

This price provides a lump-sum payment for the supply and installation of fenders with fastenings, anchors and all required accessories.

The payment will be made based on the progress of work, as approved by the Agency Representative.

2.5.2 Bollards

This price provides a lump-sum payment for the supply and installation of bollards with fastenings, anchors and all required accessories.

The payment will be made based on the progress of work, as approved by the Agency Representative.

2.6 **CIVIL AND MARINE WORKS**

2.6.1 Dredging

2.6.1.1 *Mobilisation/demobilisation*

This price provides a lump-sum payment for the mobilization/demobilization of equipment that is necessary for dredging work at the barge dock extension until the time of final acceptance.

The lump sum should represent the costs incurred for the placement/commissioning of the Contractor's equipment at the dredging site and the dismantling/demobilization of its equipment at the end of the work.

Loading dock set-up costs are included in this amount.

Work site organization costs are included in this amount.

2.6.1.2 *Dredging of contaminated sediments*

For the purposes of this article, all excavated soils are AB contaminated soils.

The Contractor must submit a lump-sum price that takes into consideration the surface area and thickness of sediments to be dredged.

The dredging sector is defined by the outline in drawing RPA-492-C-05.

The fabrication of side slopes (3H: 1V) outside areas to be dredged is included in the dredging volumes.

The Contractor must use an environmental dredge bucket as the sediments are contaminated.

The sweeping and grading of dredged areas is included in the lump sum for dredging as well as all the equipment, tools, labour, etc., necessary to perform the work.

All operations related to the placement of dredging equipment will be considered related to the work and will not be paid separately.

Disposal of contaminated soils is not included in the present article (cf. 2.6.9 and 2.8).

Over dredging is considered to be included in the unit prices and will not be paid separately.

2.6.1.3 *Other considerations*

The prices will include all materials, transportation, rentals, installation of equipment, equipment, tools, labour, expenses for the execution of work not described specifically, whether in the plans, specifications or other bid documents, but deemed necessary to conform to good practice.

All of the work described in these specifications, represented in the plans or necessary for project completion under these specifications, if not defined as a separate element requiring a lump-sum amount or unit payment, will be considered directly or indirectly related to the overall Contract, and no separate payment will be made for a portion of this work; the cost of all work directly or indirectly related to this Contract must, however, be included in the lump-sum prices provided for the items of the price schedule.

There will be no additional payment for temporary structures used during dredging operations.

There will be no additional payment for downtime.

There will be no additional payment for mooring and anchoring facilities for dredging or other floating equipment.

There will be no additional payment for downtime resulting from operational adjustments in performance.

There will be no additional payment for time losses resulting from weather conditions.

2.6.1.4 *Payment*

Payment will be made according to the progress of work, as approved by the Agency Representative

No claims for additional quantities will be accepted for the duration of the contract

The price submitted must also take into account considerations of environmental surveillance and monitoring program

2.6.2 Basin Excavation

For this article, all excavated soils are contaminated soil AB

This price pays a lump-sum payment for all materials, transportation, rental, installation of equipment, equipment, tooling, labour, expenses for carrying out the excavation work not specifically described on the plans or specifications or other bid documents, but considered necessary to conform to best practices.

The transportation of excavated material is excluded from this article (see 3.6.8 and 3.8.1).

The disposal of excavated material is excluded from this article (see 3.6.9 and 3.8.2).

Payment will be made according to the progress of work, as approved by the Agency Representative

2.6.3 Excavation for the new boat launch ramp, storage area and parking

For this article, all soils are excavated contaminated soil AB

This price pays a lump-sum payment for all materials, transportation, rental, installation of equipment, equipment, tooling, labour, expenses for carrying out the excavation work not specifically described on the plans or specifications or other bid documents, but considered necessary to conform to best practices

The transportation of excavated material is excluded from this article (see 3.6.8 and 3.8.1).

The disposal of excavated material is excluded from this article (see 3.6.9 and 3.8.2).

Payment will be made according to the progress of work, as approved by the Agency Representative

2.6.4 Subgrade and foundation of the new boat launch ramp to the storage area and parking

This price pays a lump-sum payment for subgrade and foundation of the new boat launch ramp, the storage area and parking, and must include, without limitation, manipulation or supply, transport, spreading, leveling and compacting the materials specified on the plans, in the specifications or in the price schedule

This price pays a lump-sum payment for all materials, transportation, rental, installation of equipment, equipment, tooling, labour, expenses for building the sub-foundation and foundation works not specifically described on the plans, or specifications or other bid documents, but considered necessary to conform to best practices

Payment will be made according to the progress of work, as approved by the Agency Representative

2.6.5 Asphalt for the new boat launch ramp to the storage area and parking

This price pays a lump-sum payment for the asphalt, according to the mix specified on the plans which must include, without being limited to, the provision of equipment, machinery and manpower required for leveling transitions (1 m) of the existing pavement and the disposal of the leveling residue. The preparation and cleaning of the surface to be covered, the spreading of the tack coat, the installation of adjustment shims, of all cast iron accessories (manholes, sumps, valves, water mains, public utilities, etc.).

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Transportation and installation of the asphalt, the realization of transversal and longitudinal joints in accordance with the previously stated requirements (heating, overlapping, levelling, etc.), the rolling and compaction of the asphalt includes compaction using a roller and any other related work required to carry out the work.

This price pays a lump-sum payment for all materials, transportation, rental, installation of equipment, equipment, tooling, labour, expenses for placing the asphalt not specifically described on the plans, or specifications or other bid documents, but considered necessary to conform to best practices

Payment will be made according to the progress of work, as approved by the Agency Representative

2.6.6 Protective Rip-Rap

This price pays a lump-sum payment for the supply and placement of stone rip-rap, including the supply and installation of the geotextile

Payment will be made according to the progress of work, as approved by the Agency Representative

2.6.7 Landscaping

This price pays a lump-sum payment, without limitation, for the preparation of the surface to be sodded, supply and application of topsoil to a depth of 150 mm after compaction, supply and installation of turf including implantation and installation of a mesh where the slope requires it, spreading a rooting fertilizer, rolling of the sod and watering until its rooting.

Landscaping at the site of contaminated soil indicated the plan RPA-492-C-06 is not included in this present article.

This price pays a lump-sum payment for all materials, transportation, rental, installation of equipment, equipment, tooling, labour, and expenses for carrying out the landscaping not specifically described on the plans, or specifications or other bid documents, but considered necessary to conform to best practices

Payment will be made according to the progress of work, as approved by the Agency Representative

2.6.8 Transportation and stockpiling of contaminated soils remaining on the worksite

The Contractor shall submit a unit price per m³ for transportation of contaminated soils which can be stockpiled on the site shown on the plan RPA-492-C-06

Included in this section:

- › The location
- › The installation of equipment
- › Equipment
- › Tooling
- › Labour
- › The expenses to carry out the transportation not specifically described on plans, specifications or other bid documents, but considered necessary to conform to regulations.
- › The expenses to carry out the stockpiling not specifically described on plans, specifications or other bid documents, but considered necessary to conform to best practices.

The landscaping at the disposal site of contaminated soil on the work site is included in this article. The landscaping, without limitation, removal of topsoil for reuse, preparation of the surface to be turfed, supply and application of topsoil to a depth of 150 mm after compaction, the supply and laying of sod, including implantation and installation of a mesh where the slope requires it, spreading a rooting fertilizer, rolling of the sod and watering until its rooting.

The measurement payment purposes will be to determine the volume of materials piled on the work site (cut indicated in 2.6.1, 2.6.2 and 2.6.3).

Progressive Payment will be made in collaboration with the Agency Representative

2.6.9 Fence Work

This price pays a lump-sum payment for the replacement of the fence, including removal of the existing fence and storage during construction, relocation of the fence after the works including modification, replacement of any damaged by the works, modification and installation of the new fence.

This price includes all materials, transportation, rental, installation of equipment, equipment, tooling, labour, expenses for carrying out the work of replacing the fence, not specifically described on the plans or specifications or other bid documents, but considered necessary to conform to best practices.

Payment will be made according to the progress of work, as approved by the Agency Representative

2.6.10 Scour Protection Mat

This price pays a lump-sum payment for the supply and installation of the concrete scour protection mat (scouring mat). This price also included the supply and installation of the gravel layer and the geotextile

This price includes all materials, transportation, rental, installation of equipment, equipment, tooling, labour, expenses for carrying out the work of installing the scour protection, not specifically described on the plans or specifications or other bid documents, but considered necessary to conform to best practices.

Payment will be made according to the progress of work, as approved by the Agency Representative.

2.6.11 Techno-metal piles

This price pays a lump-sum payment for the supply and installation of the techno-metal piles. This price also included the design briefs and the load trials.

This price includes all materials, transportation, rental, installation of equipment, equipment, tooling, labour, expenses for carrying out the work of installing the techno-metal piles, not specifically described on the plans or specifications or other bid documents, but considered necessary to conform to best practices.

Payment will be made according to the progress of work, as approved by the Agency Representative.

2.7 ELECTRICITY, CONTROL AND INSTRUMENTATION

2.7.1 Electrical Room and Wharf

This price provides a lump-sum payment for the supply and installation of the following items, without limitation:

- Manual transfer switch
- Generator connection box
- Emt conduit
- Support
- Breaker
- Accessories
- Connectors
- Protection plate
- Commissioning of all equipment.

The payment will be made based on the progress of work, as approved by the Agency Representative

2.7.2 Underground duct banks

This price provides a lump-sum payment for the supply and installation of the following items, without limitation:

- Duct banks, including ducts, excavation and backfill.

The payment will be made based on the progress of work, as approved by the Agency Representative.

2.7.3 Low voltage and grounding cables

This price provides a lump-sum payment for the supply and installation of the following items, without limitation:

- Ducts;
- RWU90 1000 V low-voltage cables;
- Bare copper grounding conductor;
- Grounding rods and hardware, accessories and connectors.

The payment will be made based on the progress of work, as approved by the Agency Representative.

2.7.4 Navigation lights

This price provides a lump-sum payment for the supply and installation of the following items, without limitation:

- Complete navigation lights
- RWU90 low-voltage Cables, connectors, hardware and post.

The payment will be made based on the progress of work, as approved by the Agency Representative.

2.7.5 Lighting

This price provides a lump-sum payment for the supply and installation of the following items, without limitation:

- Exterior lighting
- Lamp posts
- RWU90 1000 V low-voltage cables;
- Connector
- P.V.C. conduits
- Support and accessories

2.7.6 Electrical outlets

This price provides a lump-sum payment for the supply and installation of the following items, without limitation:

- Electrical outlets
- RWU90 1000 V low-voltage cables;
- P.V.C. conduits
- Weatherproof box
- Weatherproof cover
- Accessories

The payment will be made based on the progress of work, as approved by the Agency Representative.

2.8 TRANSPORTATION AND DISPOSAL TO AN AREA AUTHORISED BY MDDELCC

The contractor must submit a price by tonne for the transportation of contaminated soils to the site indicated on the drawing RPA-492-C-06 and stockpiled. The soils to transport and dispose will be the cut included in articles 2.6.1, 2.6.2 and 2.6.3, except for the soils included in item 2.6.8.

The price per metric tonne (t) of the A-B contaminated soils must include, without being limited to, the transportation to the area authorised by MDDELCC, as well as all the other related work.

Included in this section:

- › The location
- › The installation of equipment
- › Equipment
- › Tooling
- › Labour
- › The expenses to carry out the transportation not specifically described on plans, specifications or other bid documents, but considered necessary to conform to regulations.

The measurement for payment purposes will consist of using the weigh scale slips at the disposal site.

Progressive Payment will be made in collaboration with the Agency Representative

3.0 LANDING DOCK (DOCK B)

3.1 WORKS USING TREATED WOOD AND HARDWARE

3.1.1 Repair of Decking

The contractor must submit a unit price per m² for the repair of the decking at Dock B

Included in this section:

- › All materials
- › Transportation
- › The rental
- › The installation of equipment
- › Equipment
- › Tooling
- › Labour
- › The expenses to carry out the decking repair work not specifically described on plans, specifications or other bid documents, but considered necessary to conform to regulations.

The price includes the transportation and disposal of demolition and construction waste (old decking, hardware etc.) to an area authorised by the MDDELCC.

The measurement for payment purposes will consist of measuring the area of the new decking repaired.

Progressive Payment will be made in collaboration with the Agency Representative.

3.1.2 Repair of Cladding

The contractor must submit a unit price per m² for the repair of the cladding at Dock B

Included in this section:

- › All materials
- › Transportation
- › The rental
- › The installation of equipment
- › Equipment
- › Tooling
- › Labour
- › The expenses to carry out the cladding repair work not specifically described on plans, specifications or other bid documents, but considered necessary to conform to regulations.

The price includes the transportation and disposal of demolition and construction waste (old cladding, hardware etc.) to an area authorised by the MDDELCC.

The measurement for payment purposes will consist of measuring the area of the new decking repaired.

Progressive Payment will be made in collaboration with the Agency Representative.

3.1.3 Repair of Wheel Guards

The contractor must submit a unit price per linear metre for the repair of the wheel guards on Dock B

Included in this section:

- › All materials
- › Transportation
- › The rental
- › The installation of equipment
- › Equipment
- › Tooling
- › Labour
- › The expenses to carry out the repair of the wheel guards work not specifically described on plans, specifications or other bid documents, but considered necessary to conform to regulations.

The price includes the transportation and disposal of demolition and construction waste (old wheel guards, hardware etc.) to an area authorised by the MDDELCC.

The measurement for payment purposes will consist of measuring the length of the new wheel guards.

Progressive payment will be made in collaboration with the Agency Representative.

4.0 PUMPING STATIONS AND PIPING

4.1 MOBILIZATION, WORKSITE INSTALLATION AND DEMOBILIZATION (SPECIFIC TO ITEM 4)

This price provides a lump-sum payment for the costs of general mobilization and demobilization of equipment, tools, personnel, materials and temporary facilities, as well as any additional mobilization potentially required to meet the work schedule.

This price will be paid in this way:

- 70 % after the placement of the various installations on the worksite.
- 30 % at the time of demobilisation and following the cleanup of the worksite.

This price provides a lump-sum payment for the costs of purchasing, amortization or renting of machinery, equipment, tooling and materials required for the installations of the worksite during the span of the worksite.

This price includes the costs associated with operation and maintenance of the machinery, equipment, tooling required for the installations of the worksite during the work. The cost of personnel to support the installations is also included.

These prices include, but are not limited to:

4.1.1 Land (cf. section 01 52 00)

- The costs for acquiring, leasing, indemnifying and using land other than the land put at the Contractor's disposal by Parks Canada Agency (PCA), either for construction facilities or temporary deposits;
- The costs for using and maintaining land put at the Contractor's disposal by PCA.

4.1.2 Development of construction facility zones (cf. section 01 52 00)

- Development of all land for construction facilities, earthworks, including brush control, stripping and topsoil stockpiling, placement of sand and gravel to prevent tracking of mud.
- Site drainage.
- Field and personnel offices.
- PCA and its representative's offices;
- Equipment storage facilities
- Outdoor storage for material and equipment
- Gates and fences for areas around the facilities throughout the duration of the work site, including their potential movement, as well as any temporary security measures;

4.1.3 Access roads

- Missing access roads;
- Maintenance of access roads (cleaning in the summer, grading of gravel roads, and oiling);
- Temporary site signs;
- Temporary diversions, if required;
- Snow removal of temporary tracks and roads by the Contractor.

4.1.4 Materials, supplies and operation

- Lighting of construction facilities;
- Costs of transporting, installing and operating vehicles and engines;
- Watchman costs;

4.1.5 Services

- Construction method studies;
- Customs clearance, if required;
- Supplying all documents required for the work (see Section 01 33 00 of the construction specifications including shop drawings, final plans, operating and manufacturer's manuals);
- Supplying the work schedule (see Section 01 32 16.07 of the construction specifications).

4.1.6 Networks

- Washrooms at the work site;
- Water supply of construction facilities using existing fire hydrants;
- Fire protection;
- Water to compact material and for dust control;
- Power supply;
- Phone lines and Internet for its own use and the use of the supervisor.

4.1.7 Health and safety

- On-site health and safety of personnel and equipment, in accordance with the requirements of Section 01 35 29.06 of the construction specifications and applicable laws.

4.1.8 Environment

- The protection of the environment, in accordance with Section 01 35 43 of the construction specifications and applicable laws.
- Management and disposal of construction/demolition waste (see Section 01 74 21)

4.1.9 Miscellaneous

- The transportation of personnel;
- The collection of waste;
- All loading and unloading work;
- Costs of coordinating users of the site and contractors performing work simultaneously;
- Costs of coordinating subcontractors and suppliers;
- Site meetings;
- Supplying one (1) 6.0 m² work signboard;
- Performance testing and commissioning;
- Any other related costs for the completion of work not included in the unit/lump-sum prices.

4.2 LOCATION SURVEY

This price provides a lump-sum payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, required fees or licences, and construction engineering, excavation, filling and all expenses related location surveys.

4.3 SEPTIC TANKS TO DISPOSE OF

This price provides a lump-sum payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, required fees or licences, and construction engineering, that are necessary for pumping and disposal of waste water (liquid and solid), excavation, filling and disposal in an approved site. The price also includes excavation, filling and all expenses related to pipes and accessories to dismantle or decommission.

4.4 DISTRIBUTION CHAMBER AND SEPTIC FIELD TO DISPOSE OF

This price provides a lump-sum payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, required fees or licences, and construction engineering, that are necessary for pumping and disposal of waste water (liquid and solid), excavation, filling and disposal in an approved site. The price also includes excavation, filling and all expenses related to pipes and accessories to dismantle or decommission.

4.5 PRE-FABRICATED PUMPING STATIONS

4.5.1 Pre-Fabricated Pumping Station PP-1 (including excavation, placing, backfilling and commissioning)

This price provides a lump-sum payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, required fees or licences, and construction engineering that are necessary for excavation, the cushion and embedding of the pumping station, the supply and installation of the pumping station, the pumps, instruments, valves, pressure gauges, pipes, fitting, floats and all accessories other works shown on the plans or specifications as well as any other related works.

4.5.2 Pre-Fabricated Pumping Station PP-2 (including excavation, placing, backfilling and commissioning)

This price provides a lump-sum payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, required fees or licences, and construction engineering that are necessary for excavation, the cushion and embedding of the pumping station, the supply and installation of the pumping station, the pumps, instruments, valves, pressure gauges, pipes, fitting, floats and all accessories other works shown on the plans or specifications as well as any other related works.

4.6 TRENCH EXCAVATION AND FILLING

4.6.1 Excavation and Filling of trench for 1 pipe

This price provides a linear meter payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, required fees or licences, and construction engineering, that are necessary for excavation including rock, removal of existing lines, retaining if required, the supporting of poles and all structures threatened by the excavation. The backfilling includes placing cushions, embedding pipes with borrowed materials and filling the trench with excavated or borrowed materials approved by the Agency Representative up to the level of infrastructure. The price also includes subjected handling of excavated materials including piling if required, loading and transport to use for backfilling trenches and/or for disposal. In case of disposal, the price also includes leveling of the materials to the satisfaction of the Parks Canada Agency of the land concerned.

4.6.2 Excavation and Filling of trench for 2 pipes

This price provides a linear meter payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, required fees or licences, and construction engineering, that are necessary for excavation including rock, removal of

existing lines, retaining if required, the supporting of poles and all structures threatened by the excavation. The backfilling includes placing cushions, embedding pipes with borrowed materials and filling the trench with excavated or borrowed materials approved by the Agency Representative up to the level of infrastructure. The price also includes subjected handling of excavated materials including piling if required, loading and transport to use for backfilling trenches and/or for disposal. In case of disposal, the price also includes leveling of the materials to the satisfaction of the Parks Canada Agency of the land concerned

4.7 GRAVITY PIPE 150 MM

This price provides a linear meter payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, required fees or licences, and construction engineering, that are necessary for the purchase and installation of pipes, all required accessories and connectors, as well as connections to existing ones.



4.8 FORCEMAIN 75 MM

This price provides a linear meter payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, required fees or licences, and construction engineering, that are necessary for the purchase and installation of pipes, all required accessories and connectors, as well as connections to existing ones.

4.9 PRE-FABRICATED DOMESTIC MANHOLE 900 MM DIA.

This price provides a lump-sum payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, required fees or licences, and construction engineering that are necessary for excavation, filling, the cushions, embedding of the manhole, the purchase and installation of the base and all the sections, the manhole cover and all accessories required for a complete installation and perfect operation.

4.10 REPAIR OF TERRAIN BY SODDING

This price provides a lump-sum payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, required fees or licences, and construction engineering, that are necessary for repairing all grassed surfaces, leveling of surfaces, supply or retrieving and replacing topsoil.

4.11 REPAIR OF THE ACCESS TRAIL, PEDESTRIAN TRAIL AND LANDING

This price provides a lump-sum payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, required fees or licences, and construction engineering, that are necessary for the repair of all paved surfaces damaged by the work including granular base (150 mm MG-20 and 300mm MG-112), leveling of surfaces and all related work.

4.12 FENCE REPAIR

This price provides a lump-sum payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, required fees or licences, and construction engineering, that are necessary for repairing the fence removed for works including all required accessories and related work.

4.13 BOLLARDS FOR PP-2

This price provides a lump-sum payment for the supply and installation of the bollards with attachments, anchors and all required accessories.

4.14 ELECTRICAL CONNECTION AND ELECTRICAL MODIFICATIONS

4.14.1 Electrical Connections and electrical Modifications for PP-1 at the Visitors Center

This price provides a lump-sum payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, required fees or licences, and construction engineering, that are necessary for supply, installation and connection of electrical systems, all accessories required for a complete installation and perfect operation

4.14.1.1 *Main Electrical Room*

This price provides a lump-sum payment for the supply and installation of the following items, without limitation:

- Manual transfer switch
- Generator connection box
- Emt conduit
- Support
- Breaker
- Accessories
- Connectors
- Protection plate
- Commissioning of all equipment.

The payment will be made based on the progress of work, as approved by the Agency Representative.

4.14.1.2 *Underground duct banks*

This price provides a lump-sum payment for the supply and installation of the following items, without limitation:

- Duct banks, including ducts, excavation and backfill.

The payment will be made based on the progress of work, as approved by the Agency Representative.

4.14.1.3 *Low Voltage and Grounding Cables*

This price provides a lump-sum payment for the supply and installation of the following items, without limitation:

- Ducts;
- RWU90 1000 V low-voltage cables;
- Bare copper grounding conductor;
- Grounding rods and hardware, accessories and connectors.

The payment will be made based on the progress of work, as approved by the Agency Representative.

4.14.2 Electrical Connections and electrical Modifications for PP-2 at the Service Building

This price provides a lump-sum payment for all required measures, actions and supplies, including, but not limited to, management, labour, equipment, materials, permits, professional services, required fees or licences, and construction engineering, that are necessary for supply, installation and connection of electrical systems, all accessories required for a complete installation and perfect operation

4.14.2.1 *Main Electrical Room*

This price provides a lump-sum payment for the supply and installation of the following items, without limitation:

- Manual transfer switch
- Generator connection box
- Met conduit
- Support
- Breaker
- Accessories
- Connectors
- Protection plate
- Commissioning of all equipment.

The payment will be made based on the progress of work, as approved by the Agency Representative.

4.14.2.2 *Underground duct banks*

This price provides a lump-sum payment for the supply and installation of the following items, without limitation:

- Duct banks, including ducts, excavation and backfill.

The payment will be made based on the progress of work, as approved by the Agency Representative.

4.14.2.3 *Low Voltage and Grounding Cables*

This price provides a lump-sum payment for the supply and installation of the following items, without limitation:

- Ducts;
- RWU90 1000 V low-voltage cables;
- Bare copper grounding conductor;
- Grounding rods and hardware, accessories and connectors.

The payment will be made based on the progress of work, as approved by the Agency Representative.

5.0 WORK MODIFICATIONS

Subject to the prior approval of the relevant bodies of Parks Canada, the Agency Representative may modify the work and performance conditions of the contract insofar as this does not affect the nature and key terms of the contract. These changes will not in any way terminate the contract.

In addition, the Contractor shall consider the following information when submitting his bid:

- Some items of the price schedule may be eliminated from the bid or contract without penalty;
- No adjustment to unit price will be granted, regardless of the variation to the quantities;
- Missing unit prices in a work section may be taken from another section as equivalence.

When an amendment has the effect of extending the term of the contract, the Contractor shall notify in writing the Agency Representative and agree upon the number of additional days reasonably required. The work schedule of the contract adjusted accordingly should appear in the amending directive, otherwise, the accepted modification, will be deemed to not affect any changes to the work schedule of the contract.

When a change has the effect of increasing the contract price, the supplement is calculated according to the order of the following

1. By applying the unit prices submitted by the Contractor, if any, in the tender form, and regardless of the difference between the stated amounts and those actually provided or performed;
2. According to an amount agreed by the parties;
3. The value of the work is therefore calculated according to the expenditure method, as follows :
 - The salaries of the foremen and superintendents according to the actual time consecrated to the additional works
 - The manpower directly performing the execution of this additional work according to the wage rates listed in the Decree on the construction industry, plus related costs imposed by the laws and decrees;
 - The cost of additional materials incorporated in the work or necessary for its execution, including applicable taxes, other than GST and QST;
 - The necessary additional equipment, agreed by the Agency Representative, according to the rate of heavy machinery rental by the Directorate General of acquisitions of shared services

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- center in Quebec, at the time of the execution of this additional work, or failing that, the local market rental rates;
- Where additional work is carried out by the Contractor, the increase amounts to 15% profits, administration and general expenses of the value of manpower and equipment paid to the Contractor before taxes and after deduction of credits and discounts, and supporting documents;
 - Where additional work is carried out by a subcontractor, the Contractor is entitled to a maximum 10% increase in profits, administration and general expenses of the value of this work before taxes and net of credits and discounts. If the value of the work does not exceed \$ 50,000. Beyond \$ 50,000, the maximum increase of the surplus payable to the Contractor is reduced to 5%. All supporting documents to establish the actual costs should be provided to the satisfaction of the Agency Representative
 - A change in the scope of work is required to remove part of the work under the contract, no increase is applied for profits and administration after the establishment of the real cost of credit for this part of the work;
 - The Contractor and his subcontractors are required to use, in determining the cost of the work, the hourly manpower rates in force before increases for profits, administration and overhead. The rates and prices in force are those published by the Commission de la construction du Québec (Table of wage rates and premium benefits). In cases where no rate or price is published, the rate or rates accepted by the Agency Representative are those published which most resemble the function. The cost of materials means the price actually paid by the Contractor, the amount charged by its supplier, deductions for any discounts or other benefits;
 - The amounts granted for manpower directly occupied with carrying out the work correspond to the requirements of the Decree on the construction industry, are those published on the website www.acrgtq.qc.ca. The amounts, including imposed related costs, will be those used as reference according to the classification used for the Contractors' workers;
 - Only the amount for the CSST is not covered by this document. The Contractor must provide documentation to be paid that amount;
 - As for heavy equipment rental rates, no increase in administrative costs is applicable to the hourly machinery rental rates and equipment.

As a summary, the following table shows the allowable amounts for work performed according to the method of expenditure:

Nature	Admissible Amount
Manpower	Total hourly cost of annexe « Do » available at www.acrgtq.qc.ca + Amount of CSST if supporting document provided by Contractor + 15 % for profits, administration and overhead
Machinery	Rental rates in force for heavy equipment (Publications du Québec*)
Bulk Transport	Rates and tariffs appearing in the <i>Recueil des tarifs de camionnage</i> du ministère des Transports du Québec
Tooling	Hourly rates of machinery and tool rental ** (Publications du Québec*)
Equipment	Cost of equipment before taxes + 15 % for profits, administration and overhead
Sub-contractor	Amount of works according to the methods described above, before taxes + 10 % for Contractors profits, administration et overhead (increase reduced to 5% on the overage beyond \$50 0000)

* If the rate of an equipment is not shown in the document in force published by the Direction générale des acquisitions du Centre de services partagés du Québec, a reasonable market rate of rental should be applied.

**Lump sum amounts are not admissible unless there is a pre-established agreement at the start of the supplementary works.

The increase in profits, administration and overhead represents an indemnity in respect of payments and charges relating to general administrative expenses, expenses of the head office, finance costs and interest expense, fees for site installation, tooling, equipment, vehicles, and communication equipment. It also includes all indirect costs related to the execution of the amending Directive, especially its administrative staff, insurance, guarantees and all costs arising from the impacts to the schedule due to the modification directive.

When a modification has the effect of reducing the price of the contract, failing agreement between the parties, the reduction is calculated by an amount equal to the cost of canceled or modified work. The credit calculation will be made taking into account in particular ventilated or unit costs appearing in the Contractor's bid.

In the case of a lump sum contract, any changes which could affect the price of the contract are conditional on obtaining the same authorisations and approvals than for contract itself.

At the end of each day during which the modification work is performed, the Contractor must make a report, detailing the modification work performed, the hours of work, the class of employment of workers assigned to the work, the amount of material incorporated into the work, and the type of equipment and hours of operation assigned to each work modification. The contractor must approve the report by the Agency Representative.

The contractor shall cooperate with the Agency Representative to identify measures to, among other things, optimum execution, and at a minimum cost of the work, based on the critical path activities at the site to ensure respect of the agreed work schedule.

Any changes notice directive prepared by the Agency Representative requires the Contractor to submit a price or a credit within a maximum period of 5 (five) days of receipt of the directive, unless a different period is specified in the directive or if the document specifies that the work must begin immediately.

After receiving the price or credit proposed by the Contractor as a result of his analysis, the Agency Representative will make his position known with regard to the Contractor's proposal as soon as possible.

A request to modify the work is produced on the "Change Notice" form issued by the Agency Representative.

Before drafting the progressive detailed account for one or more changes, recommended change directives to the competent authorities should be grouped in the "Change Notice» form for approval. If necessary, the contract price will be adjusted based on the received approvals.

The contractor cannot make changes to work without change notice or a binding amendment directive, either of which document must be signed by the Agency Representative.

Upon provisional acceptance of the work, the Contractor cannot submit a change request for works, services or materials provided before the final count.

APPENDIX A – PRICE SCHEDULE

Item	Description	Unit of measurement	Quantity	Unit prices	Total (\$)
1.0	CONTRACTOR'S GENERAL CONDITIONS				
1.1	Mobilization and Demobilization	Lump sum			
1.2	Installations of the Worksite	Lump sum			
Sub-total – Mobilization, Installations of the worksite and Demobilization					
2.0	BARGE DOCK (Dock A)				
2.1	Preparation	Lump sum			
Sub-total – Preparation work					
2.2	Steel Sheet Piling, Ties and Wales	-			
2.2.1	Frontal wall	m ²	400		
2.2.2	Anchor wall	m ²	50		
2.2.3	Wales and ties systems	Lump sum			
Sub-total – Steel Sheet Piling, Ties and Wales					
2.3	Concrete and Related Works	-	-		
2.3.1	Front wall slab (including slab near bollard #4))	m ³	30		
2.3.2	Bollards foundations	m ³	20		
2.3.3	Concrete filling between steel plate and front wall	m ³	55		
2.3.4	Lamp post bases	Lump sum	-		
Sub-total – Concrete and Related Works					
2.4	Metal Works	-	-		
2.4.1	Steel plate and front wall	m ²	115		
2.4.2	Wheel guards	m	35		
Sub-total – Metal Works					

Item	Description	Unit of measurement	Quantity	Unit prices	Total (\$)
2.5	Fenders and Bollards	-	-		
2.5.1	Fenders	Lump sum	-		
2.5.2	Bollards	Lump sum	-		
Sub-total – Fenders and Bollards					
2.6	Civil and Marine Works	-	-		
2.6.1	Dredging	Lump sum	-		
2.6.2	Basin Excavation	Lump sum	-		
2.6.3	Excavation for the new boat launch ramp, storage area and parking	Lump sum	-		
2.6.4	Subgrade and foundation of the new boat launch ramp to the storage area and parking	Lump sum	-		
2.6.5	Asphalt for the new boat launch ramp to the storage area and parking	Lump sum	-		
2.6.6	Protective Rip-rap	Lump sum	-		
2.6.7	Landscaping	Lump sum	-		
2.6.8	Transportation and stockpiling of contaminated soils remaining on the worksite	m3	4 500		
2.6.9	Fence work	Lump sum	-		
2.6.10	Scour protection mat	Lump sum	-		
2.6.11	Techno-metal piles	Lump sum	-		
Sub-total – Civil and Marine Works					
2.7	Electricity, Control and instrumentation	-	-		
2.7.1	Electrical room and wharf	Lump sum	-		
2.7.2	Underground duct banks	Lump sum	-		
2.7.3	Low voltage and grounding cables	Lump sum	-		

Item	Description	Unit of measurement	Quantity	Unit prices	Total (\$)
2.7.4	Navigation lights	Lump sum	–		
2.7.5	Lighting	Lump sum	–		
2.7.6	Electrical outlets	Lump sum	–		
Sub-total – Electricity, control and Instrumentation					
2.8	Transportation and Disposal to an Area Authorised by MDDELCC	t	1 000		
Sub-total – Transportation and Disposal to an Area Authorised by MDDELCC					
3.0	LANDING DOCK (Dock B)				
3.1	Works using Treated Wood and Hardware				
3.1.1	Repair of decking	m ²	140		
3.1.2	Repair of cladding	m ²	140		
3.1.3	Repair of wheel guards	m	85		
Sub-total – Works using Treated Wood and Hardware					
4.0	PUMPING STATIONS AND PIPING				
4.1	Mobilization, worksite Installation and Demobilization (specific to item 4)	Lump sum	–		
4.2	Location Survey	Lump sum	–		
4.3	Septic Tanks to Dispose of	Lump sum	–		
4.4	Distribution Chamber and Septic Field to Dispose of	Lump sum	–		
4.5	Prefabricated Pumping Stations				
4.5.1	Prefabricated Pumping Station PP-1 (including excavation, placing, backfilling and commissioning)	Lump sum	–		
4.5.2	Prefabricated Pumping Station PP-2 (including excavation, placing, backfilling and commissioning)	Lump sum	–		
4.6	Trench Excavation and Filling				

Parks Canada Agency
 La Mauricie and Western Quebec Field Unit
 Repair and modification of three docks
 at Fort Lennox National Historic Site
 Project 45361732

**PRICE SCHEDULE, PRICE DESCRIPTION
 AND PAYMENT METHOD**

PRICE SCHEDULE

1

Item	Description	Unit of measurement	Quantity	Unit prices	Total (\$)
4.6.1	Excavation and Filling of trench for 1 pipe	m.lin.	782		
4.6.2	Excavation and Filling of trench for 2 pipes	m.lin.	133		
4.7	Gravity Pipe 150 mm dia.	m.lin.	5		
4.8	Forcemain 75 mm dia.	m.lin.	1 043		
4.9	Pre-Fabricated Domestic Manhole 900 mm dia.	Lump sum	–		
4.10	Repair of Terrain by Sodding	Lump sum	–		
4.11	Repair of the Access Trail, Pedestrian Trail and Landing	Lump sum	–		
4.12	Fence Repair	Lump sum	–		
4.13	Bollards for PP-2	Lump sum	–		
4.14	Electrical Connection and Electrical Modifications	-	–		
4.14.1	Electrical Connections and Electrical Modifications for PP-1 at the Visitor's Center	-	–		
4.14.1.1	Main Electrical Room	Lump sum	–		
4.14.1.2	Underground Duct Banks	Lump sum	–		
4.14.1.3	Low Voltage and Grounding Cables	Lump sum	–		
4.14.2	Electrical Connections and Electrical Modifications for PP-1 at the Service Building	-	–		
4.14.2.1	Main Electrical Room	Lump sum	–		
4.14.2.2	Underground Duct Banks	Lump sum	–		
4.14.2.3	Low Voltage and Grounding Cables	Lump sum	–		
Sub-total – Pumping Stations and Piping					

Parks Canada Agency
La Mauricie and Western Quebec Field Unit
Repair and modification of three docks
at Fort Lennox National Historic Site
Project 45361732

**PRICE SCHEDULE, PRICE DESCRIPTION
AND PAYMENT METHOD**

PRICE SCHEDULE

SUB-TOTAL before taxes (1+2+3+4)	
TPS (5 %)	
TVQ (9,975 %)	
GRAND TOTAL	

Note: If the sum of entries in the price schedule is different from the sub-total, the lowest amount shall prevail