

Part 1 General

1.1 INVITATION Bid Call:

- .1 Ensure Bid offers are signed under seal, executed, and dated and are received by the Port of Johnstown before 12:00 pm sharp, April 18, 2024, Port time, at the Port of Johnstown Administrative Office front desk.
- .2 Offers submitted after above time will be returned to Bidder unopened.
- .3 Submit Supplementary Bid Information Form within 48 hours after Bid closing time if required.
- .4 Offers will be opened publically after the time of receipt of Bids.

1.2 INTENT

- .1 Intent of this Bid Call is to construct a foundation for the Rail Shed Extension Project. The Owner reserves the right to seek any clarification they require of any Bidder in order to evaluate that Bid Proposal following Bid Closing and in doing is not required to inform any of the various Bidders.
- .2 Perform and complete Work on or before July 19, 2024.
- .3 Start Work within 3 weeks of notice of contract award.

1.3 CONTRACT/BID DOCUMENTS

- .1 The Contract Documents include these Instructions to Bidders and,
- .2 the following:
 - .1 Contract Document: are to be defined as per CCDC 2, Stipulated Lump Sum Price Contract.
 - .2 Bid Documents:
 - .1 Bid Form, Schedule A and Schedule C.
 - .3 Drawings and Specifications pertaining to this project are fully provided on Port Website for download are part of the Bid Documents and are;
 - .1 These Tender Documents inclusive.
 - .2 Drawings S100, S102 and S103 prepared by S. Houseman & Associates dated February 29, 2024.
 - .3 Technical specifications including Sections 023000, 024580, 030000, 031000 and 032000.
 - .4 Geotechnical Report No. 22C380 Dated December 31, 2022 and prepared by St. Lawrence Testing and Inspection Co. Ltd.
- .3 Availability:
 - .1 Bid Documents may be obtained on the Port of Johnstown web site under “Rail Shed Foundation”.
 - .2 Bid Documents are made available only for purpose of obtaining offers for this project. Their use does not confer license or grant privileges for other purposes.

- .4 Examination:
 - .1 Bid Documents will not be provided at the Mandatory Job Showing. Bidders shall print copies and bring to Mandatory Job Showing meeting. All required documents can be obtained from the Port Web Site.
 - .2 Upon receipt of Bid Documents verify that documents are complete.
 - .3 Immediately notify the Port of Johnstown upon finding discrepancies or omissions in Bid Documents.
- .5 Queries/Addenda/Clarifications:
 - .1 Direct questions to Steve Houseman P.Eng by e-mail only at shouseman@rogers.com
 - .2 Addenda may be issued during Bidding period. Addenda will become part of Contract Documents. Include Addenda costs in Bid Price.
 - .3 Verbal answers are only binding when confirmed by written addenda.
 - .4 Clarifications requested by Bidders must be in writing not less than four days before date set for receipt of Bids. Reply will be in form of an addendum. Copy of addendum will be forwarded to known bidders no later than 1 working day before receipt of Bids.
- .6 Product/System Options:
 - .1 If Bid Documents stipulate a particular product, method or technique, substitutions or alternatives will be considered by the Owner after receipt of Bids and should be submitted as an Amendment to Bid and enclosed in a separate envelope with the Bid at the time of the Bid.
 - .2 In submission of substitutions to products, methods or techniques specified, Bidders are to include in their Bid, changes required in Work to accommodate such substitutions. Later claim by Bidder for addition to Contract Price a result of changes in Work necessitated by use of substitutions will not be considered.
 - .3 Substituted products, methods or techniques will be considered if submitted as an Amendment to Bid.
 - .4 Ensure submission provides sufficient information to enable Owner to determine acceptability of such products, methods or techniques.
 - .5 Provide complete information on required revisions to other work to accommodate each substitution, dollar amount of additions to or reductions from Bid Price, including revisions to other work.
 - .6 Provide specified products unless substitutions are submitted as noted and subsequently accepted.
 - .7 Approval to submit substitutions prior to submission of Bids is not required.

1.4 SITE ASSESSMENT

- .1 Site Examination:
 - .1 Visit project site and surrounding area before submitting Bid.

- .2 A Mandatory visit to the project site has been arranged for Bidders at the Port of Johnstown, 3035 County Rd #2, Wednesday April 3, 2024 at 11:00 am.
- .3 Information relevant to Bid Documents will be recorded in Addendum and issued to known Bidders.

1.5 QUALIFICATIONS

1.6 BID SUBMISSION

- .1 Bid Depository:
 - .1 Not applicable.
- .2 Bid Ineligibility:
 - .1 Bids that are unsigned, improperly signed or sealed, conditional, illegible, obscure, contain arithmetical errors, erasures, alterations, or irregularities of any kind, may be declared informal at Owner's discretion.
 - .2 Bids with Bid Forms and enclosures which are improperly prepared may be declared informal at Owner's discretion.
 - .3 Bids that fail to include security deposit and insurance requirements may be declared informal at Owner's discretion.
 - .4 Bids that do not comply with Schedule "C" of the Township of Edwardsburgh/Cardinal Bid Irregularities document.
- .3 Submissions:
 - .1 Bidders are solely responsible for delivery of their Bids in manner and time prescribed.
 - .2 Submit one copy of executed offer on Bid Forms provided, including Schedule A, signed and with corporate seal together with required security in sealed opaque letter sized envelope, clearly identified with Bidder's name, project name and Owner's name on outside and addressed to Mr. Kevin Saunders, Operations Manager Port of Johnstown.
 - .3 Insert closed and sealed Bid Form envelope, and IF required, in an 8 ½" x 11" opaque envelope along with any required security, Addenda and/or Bid Amendments, and required technical information as noted above and label envelope as noted above.

1.7 BID ENCLOSURES/REQUIREMENTS

- .1 Security Deposit:
 - .1 A bid bond, in a form acceptable to the Owner and from a company whose bonds are acceptable to the Owner, in an amount of no less than 10% of the Tender amount,

or
 - .2 A security deposit, in the form of a certified cheque payable to the Owner, in an amount of 10% of the amount of the Tender amount which will be returned to unsuccessful Bidders.
 - .3 The security deposit as indicated above will be forfeited if the Tenderer refuses to enter into a Contract when called upon to do so.

- .4 If the security furnished is not in an approved form, as described above, the Tender is subject to disqualification.
- .2 Performance Assurance:
 - .1 Accepted Bidder must provide Performance and Labour and Materials Payment Bond, as a 100% Performance bond and a 50% Labour and Materials Payment Bond.
 - .2 Include cost of bonds in Bid Price.
- .3 Insurance:
 - .1 Provide signed "Undertaking of Insurance" on standard form provided by insurance company stating intention to provide insurance to Bidder in accordance with insurance requirements of Contract Documents.
 - .2 Include cost of Insurance in Bid Price
- .4 Bid Form Requirements:
 - .1 State in Bid Form, time required to complete Work. Completion date in Agreement must be completion time added to commencement date.
 - .2 Bidders, in submitting an offer, accepts time period stated in Contract documents for performing Work. Completion date in Agreement is completion time added to commencement date.
 - .3 Bidders, in submitting an offer, agrees to complete Work by date indicated in Contract Documents , but may propose a revision to contract time with adjustment to Bid price.
 - .4 Consideration will be given to time of completion when reviewing Bids submitted.
 - .5 Bidder shall include all applicable taxes, except HST, in their Bid price.
- .5 Fees for Changes in Work:
 - .1 Include in Bid Form Schedule A Unit Prices, percentage overhead and profit applicable for changes in Work, whether additions to or deductions from Work on which Bid price is based.
- .6 Bid Signing:
 - .1 Bid Form to be signed under seal by Bidder.
- .7 Supplementary Bid Information:
 - .1 Bidders only may be requested to complete and supply Supplementary Bid Information.

1.8 OFFER ACCEPTANCE

- .1 Duration of Offer:
 - .1 Bids to remain open to acceptance, and irrevocable for 60 days after Bid closing date.
- .2 Acceptance of Offer:
 - .1 The Owner reserves right to reject any or all Bids and/or not proceed with the Work. Any non-compliance with Bid Documents Schedule C, Bid Irregularities, will constitute a reason for rejection of Bid.
 - .2 After acceptance Owner will issue to successful Bidder, written Bid acceptance.
 - .3 After Bid has been accepted, unsuccessful Bidders will be notified.
 - .4 Upon Acceptance the successful Bidder shall prepare a CCDC 2 – Stipulated Lump Sum Price Contract for signing with all required bonding and insurance documents within two weeks of notification of Acceptance.
 - .5 The successful Bidder will have all their Staff, Contractors, Sub-Contractors and Suppliers that will be on site, attend and complete the Ports Safety course. The successful Bidder shall designate one individual that will be on-site as their Safety co-ordinator and shall liaison weekly with the Ports Safety Officer.

Part 2 Products

2.1 NOT USED

- .1 Not Used.

Part 3 Execution

3.1 NOT USED

- .1 Not Used.

END OF SECTION

BID FORM and SCHEDULE A.

Project: **Port of Johnstown, Rail Shed Foundation. Project No: 300-508**

From (Bidders Name): _____.

(Bidders Address): _____.

To (Owners Name): Port of Johnstown, Township of Edwardsburgh/Cardinal.

(Owners Address): 3035 County Rd. 2. Johnstown, Ontario K0E 1T1

We the undersigned, having examined and read the Bid Documents for the above noted project, including the following Addendum Number(s) _____, and having visited the site examined all conditions affecting the Work, are satisfied that we understand the Bid Documents and declare ourselves competent to undertake and complete the Work and do irrevocably bid and agree to carry out the Work in accordance with the Bid Documents for the following Stipulated Lump Sum Price and of which all our labour, material, equipment, mobilization, demobilization, overhead costs and profit expectations are included in this price. HST is not included in this price. We agree to enter into a CCDC 2 Stipulated Lump Sum Price contract if awarded this Project/Work by the Port of Johnstown. This bid is irrevocable for 60 days from the closing date.

We agree to complete the project within _____ weeks of contract award.

We the undersigned would complete the Project and Work for the Total Tender Amount of

\$ _____, _____ dollars.

Written amount numbers

Written Amount

Executed this _____ day of _____, 2024.

Name and Address _____.

Of Bidder _____.

(Print or Type)

Signature of Authorized
Representative(s):

Name and Status of Person(s)
Signing Beside :(Print or Type).

_____.

_____.

_____.

_____.

Attach Corporate Seal

We submit the following schedule of unit prices for provisional items to be used if changes are required from the Works shown on the plans and specified in the Contract Documents. If quantities are increased, the additional quantities will be paid at these prices and if quantities are reduced these prices will be used to calculate deductions from the contract price. Do not include Harmonized Sales Tax (HST) in the Schedule of Provisional Items. Original invoices must be presented and approved where required.

We agree that we are not entitled to payment of all or any part of the Schedule of Provisional Items except for additional work carried out by Tenderer as directed and in accordance with the Contract, and only to the extent of such additional work.

Item No:	Description	Unit of Measurement	Quantity	Unit Price	Total
B-1	Foreman and vehicle	hourly	unknown		N/A
B-2	Steel Workers and tools and equipment	hourly	unknown		N/A
B-3	Laborer and tools and equipment	hourly	unknown		N/A
B-4	Formwork, Concrete Workers and tools and equipment.	hourly	unknown		N/A
B-5	Material	Markup %	unknown		N/A
B-6	Equipment Rental	Markup %	unknown		N/A
B-7	Pile, Pile Driving and concrete fill.	foot	unknown		N/A

PART 1 - GENERAL

1.1 Section
Includes

- .1 This section.
- .2 Related Sections.
- .3 Work covered by Contract documents.
- .4 Contract Method.
- .5 Contractor use of premises.
- .6 Owner occupancy.
- .7 Partial Owner Occupancy.

1.2 Related
Sections

- .1 All Contract Documents.

1.3 Work Covered by
Contract Documents

- .1 Work of this Contract comprises and includes all demolition, piling, excavation, concrete placement, reinforcing installation, concrete floor placement, back filling and grading, to install a new foundation that extends the existing Rail Shed building for grain receiving and shipping.

1.4 Contract Method

- .1 Construct the Work under a CCDC 2 Stipulated Lump Sum Price Contract.

1.5 Contractor Use
of Premises

- .1 Contractor has unrestricted use of site until Substantial Performance.
- .2 Coordinate use of premises under direction of Owner.
- .4 Assume full responsibility for protection and safekeeping of products under this Contract.
- .5 Obtain and pay for use of additional storage or work areas needed for operations under this Contract.

1.9 Owner Occupancy

- .1 Owner may use premises during entire construction period for execution of normal operations.
- .2 Cooperate with Owner in scheduling operations to minimize conflict and to facilitate Owner usage.

1.10 Partial Owner
Occupancy

- .1 Schedule and substantially complete designated portions of Work for Owner's use prior to Substantial Performance of entire Work as may be required.

PART 2 - PRODUCTS Not Applicable.

PART 3 - EXECUTION Not Applicable.

PART 1 - GENERAL

1.1 Section
Includes

- .1 Applications for payments.
- .2 Substantial performance procedures.
- .3 Release of holdback procedures.
- .4 Schedule of values.

1.2 References

- .1 Owner/Contractor Agreement.
- .2 Canadian Construction Documents Committee (CCDC).
 - .1 CCDC 2 Stipulated Lump Sum Price Contract.
- .3 General Conditions 'C'.

1.3 Applications
for Progress
Payment

- .1 Make applications for payment on account on a monthly basis as Work progresses.
- .2 Date applications for payment last day of agreed monthly payment period and ensure amount claimed is for value, proportionate to amount of Contract, of Work performed and Products delivered to Place of Work at that date.
- .3 Submit to Engineer, at least 14 days before first application for payment. Schedule of values for parts of Work, aggregating total

amount of Contract Price, so as to facilitate evaluation of applications for payment.

1.4 Schedule of Values

- .1 Make schedule of values out in such form and supported by such evidence as Engineer may reasonably direct and when accepted by Engineer, be used as basis for applications for payment.
- .2 Include statement based on schedule of values with each application for payment.
- .3 Support claims for products delivered to Place of Work but not yet incorporated into Work by such evidence as Engineer may reasonably require to establish value and delivery of products.

1.5 Preparing Schedule of Values

- .1 Itemize separate line item cost for each of following general cost items:
 - .1 Performance and Payment Bonds.
 - .2 Field Supervision and Layout.
 - .3 Temporary Facilities and Controls.
 - .4 Mobilization Demobilization.
- .2 Itemize separate line item cost for Work required by each Section of this Specification.

1.6 Preparing Schedule of Unit Price Table Items

- .1 Submit separate schedule of unit price items of Work requested in Bid form.
- .2 Make form of submittal parallel to Schedule of Values, with each line item identified

same as line item in Schedule of Values.

Include in unit prices only:

- .1 Cost of material.
 - .2 Delivery and unloading at site.
 - .3 Sales taxes.
 - .4 Installation, overhead and profit.
- .3 Ensure unit prices multiplied by quantities given equal material cost of that item in Schedule of Values.

1.7 Progress
Payment

- .1 Engineer will issue to Owner, no later than 10 days after receipt of an application for payment, certificate for payment in amount applied for or in such other amount as Engineer determines to be properly due. If Engineer amends application, Engineer will give notification in writing giving reasons for amendment.

1.8 Substantial
Performance of Work

- .1 Prepare and submit to Engineer comprehensive list of items to be completed or corrected and apply for a review by Engineer to establish Substantial Performance of Work or substantial performance of designated portion of Work when Work is substantially performed if permitted by lien legislation applicable to Place of Work designated portion thereof which Owner agrees to accept separately is substantially performed. Failure to include an item on list does not alter responsibility to complete Contract.
- .2 No later than 14 days after receipt of list and application, Engineer will review Work to verify validity of application, and no later than 7 days after completing review, will notify Contractor if Work or designated

portion of Work is substantially performed.

- .3 Engineer shall state date of Substantial Performance of Work or designated portion of Work in certificate.
- .4 Immediately following issuance of certificate of Substantial Performance of Work, in consultation with Engineer, establish reasonable date for finishing Work.

1.9 Payment of
Holdback Upon
Substantial
Performance of Work

- .1 After issuance of certificate of Substantial Performance of Work:
 - .1 Submit an application for payment of holdback amount.
 - .2 Submit sworn statement that all accounts for labour, subcontracts, products, construction machinery and equipment, and other indebtedness which may have been incurred in Substantial Performance of Work and for which Owner might in any way be held responsible have been paid in full, except for amounts properly retained as holdback or as identified amount in dispute.
- .2 After receipt of application for payment and sworn statement, Engineer will issue certificate for payment of holdback amount.
- .3 Amount authorized by certificate for payment of holdback amount is due and payable on day following expiration of holdback period stipulated in lien legislation applicable to Place of Work. Where lien legislation does not exist or apply, holdback amount is due and payable in accordance with other legislation, industry practice, or provisions which may be agreed to between parties. Owner may retain out of holdback amount any sums required by law to satisfy any liens against Work or, if permitted by

lien legislation applicable to Place of Work, other third party monetary claims against Contractor which are enforceable against Owner.

1.10 Progressive
Release of Holdback

- .1 Where legislation permits, if Engineer has certified that Work of subcontractor or supplier has been performed prior to Substantial Performance of Work, Owner shall pay holdback amount retained for such subcontract Work, or products supplied by such supplier, on day following expiration of holdback period for such Work stipulated in lien legislation applicable to Place of Work.
- .2 Notwithstanding provisions of preceding paragraph, and notwithstanding wording of such certificates, ensure that such subcontract Work or products is protected pending issuance of final certificate for payment and be responsible for correction of defects or Work not performed regardless of whether or not such was apparent when such certificates were issued.

1.11 Final Payment

- .1 Submit an application for final payment when Work is completed.
- .2 Engineer will, no later than 14 days after receipt of an application for final payment, review Work to verify validity of application. Engineer will give notification that application is valid or give reasons why it is not valid, no later than 7 days after reviewing Work.
- .3 Engineer will issue final certificate for

payment when application for final payment
is found valid.

PART 2 - PRODUCTS Not applicable.

PART 3 - EXECUTION Not applicable.

PART 1 - GENERAL

1.1 Section
Includes

- .1 Schedule, form, content.
- .2 Scheduled revisions.
- .3 Critical path scheduling.

1.2 Related
Sections

- .1 Section 01770 - Closeout Procedures.

1.3 Schedules
Required

- .1 Submit schedules as follows:
 - .1 Complete Project Schedule.
 - .2 Submittal Schedule for all required Shop Drawings, Drawings and Product Data as may be required.
 - .3 Submittal Schedule for Samples as may be required.

1.4 Format

- .1 Prepare schedule in form of a horizontal Gant bar chart.
- .2 Provide a separate bar for each major item of work or operation.
- .3 Split horizontally for projected and actual performance.
- .4 Provide horizontal time scale identifying first work day of each week.
- .5 Format for listings: Chronological order of start of each item of work.

- .6 Identification of listings: By Item number.

1.5 Submission

- .1 Submit initial format of schedules within 30 working days after award of Contract.
- .2 Submit schedules in electronic format, forward as pdf files.
- .3 Submit one opaque reproduction, plus 2 copies to be retained by Engineer.
- .4 Engineer will review schedule and return review copy within [14] days after receipt.
- .5 Resubmit finalized schedule within 7 days after return of review copy.
- .6 Submit revised progress schedule with each application for payment.
- .7 Distribute copies of revised schedule to:
 - .1 Job site office.
 - .2 Subcontractors.
 - .3 Other concerned parties.
- .8 Instruct recipients to report to Contractor within 15 days, any problems anticipated by timetable shown in schedule.

1.6 Critical Path Scheduling

- .1 Include complete sequence of construction activities.
- .2 Show projected percentage of completion of each item as of first day of month.
- .4 Indicate progress of each activity to date of submission schedule.
- .5 Show changes occurring since previous submission of schedule:

- .1 Major changes in scope.
- .2 Activities modified since previous submission.
- .3 Revised projections of progress and completion.
- .4 Other identifiable changes.
- .6 Provide a narrative report to define:
 - .1 Problem areas, anticipated delays, and impact on schedule.
 - .2 Corrective action recommended and its effect.
 - .3 Effect of changes on schedules of other prime contractors.

1.11 Submittals
Schedule

- .1 Include schedule for submitting shop drawing product data, sample.
- .2 Indicate dates for submitting, review time, resubmission time, last date for meeting fabrication schedule.

PART 2 - PRODUCTS

Not applicable.

PART 3 - EXECUTION

Not applicable.

PART 1 - GENERAL

1.1 Section
Includes

- .1 Temporary utilities.

1.2 Related
Sections

- .1 Section 01520 - Construction Facilities.

1.3 Installation
and Removal

- .1 Provide temporary utilities controls in order to execute work expeditiously.
- .2 Remove from site all such work after use.

1.4 Dewatering

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

1.5 Water Supply

- .1 Provide continuous supply of potable water for construction use. Owner to provide water at a single central location, distribution from there is the responsibility and cost of the Contractor.
- .2 Arrange for connection with appropriate utility company and pay all costs for installation, maintenance and removal.
- .3 Pay for utility charges at prevailing rates.

1.6 Temporary
Heating and
Ventilation

- .1 Provide and pay for temporary heating required during construction period, including attendance, maintenance and fuel.
- .2 Construction heaters used inside building must be vented to outside or be non-flameless type. Solid fuel salamanders are not permitted.
- .3 Provide and pay for 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 surfaces.
 - .4 Provide ambient temperatures and humidity levels for storage, installation and curing of materials.
 - .5 Provide adequate ventilation to meet health regulations for safe working environment.
- .4 Maintain temperatures of minimum 10 degrees C in areas where construction is in progress.
- .5 Ventilating:
 - .1 Prevent accumulations of dust, fumes, mists, vapors 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 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 contaminants.
- .6 Permanent heating system of building, may be used when available. Be responsible for damage to heating system if use is permitted.
- .7 On completion of Work for which permanent heating system is used, replace filters, and service to as new condition.
- .8 Ensure Date of Substantial Performance and Warranties for heating system do not commence until entire system is in as near original condition as possible and is certified by Engineer .
- .9 Pay costs for maintaining temporary heat, when using permanent heating system and pay utility charges when temporary heat source is existing building equipment.
- .10 Maintain strict supervision of operation of temporary heating and ventilating equipment to:
 - .1 Conform with applicable codes and standards.
 - .2 Enforce safe practices.
 - .3 Prevent abuse of services.
 - .4 Prevent damage to finishes.
 - .5 Vent direct-fired combustion units to outside.
- .11 Be responsible for damage to Work due to failure in providing adequate heat and protection during construction.

1.7 Temporary Power
and Light

- .1 Provide and pay for temporary power during construction for temporary lighting and

operating of power tools, or as required.

- .2 Arrange for connection with appropriate utility company. Pay all costs for installation, maintenance and removal.
- .3 Temporary power for electric cranes and other equipment requiring in excess of above is responsibility of Contractor.
- .4 Provide and maintain temporary lighting throughout project.
- .5 Electrical power and lighting systems installed under this Contract may be used for construction requirements only with prior approval of Engineer provided that guarantees are not affected. Owner to provide electricity at a single central location, distribution from there is the responsibility and cost of the Contractor. Make good damage to electrical system caused by use under this Contract.

1.8 Temporary
Communication
Facilities

- .1 Provide and pay for temporary telephone, fax, data and computer lines and computer printer necessary for own use and use of Engineer.

1.9 Fire Protection

- .1 Provide and maintain temporary fire protection equipment during performance of Work required by insurance companies having jurisdiction and governing codes, regulations and bylaws and all Authorities having jurisdiction over the Work.

.2 Burning rubbish and construction waste materials is not permitted on site.

PART 2 - PRODUCTS Not Applicable.

PART 3 - EXECUTION Not Applicable.

PART 1 - GENERAL

<u>1.1 Section Includes</u>	.1	Construction aids.
	.2	Office and sheds.
	.3	Parking.
	.4	Project identification.
<u>1.2 Related Sections</u>	.1	Section 01510 - Temporary Utilities.
<u>1.3 References</u>	.1	Canadian Construction Documents Committee (CCDC)
	.1	CCDC 2 Stipulated Lump Sum Price Contract.
<u>1.4 Installation and Removal</u>	.1	Provide construction facilities in order to execute work expeditiously.
	.2	Remove from site all such work after use.
<u>1.5 Scaffolding</u>	.1	Provide and maintain scaffolding, ramps, ladders, platforms, temporary stairs as required for the Work.
<u>1.6 Hoisting</u>	.1	Provide, operate and maintain hoists and

cranes required for moving of workers, materials and equipment. Make financial arrangements with Subcontractors for use thereof.

- .2 Hoists and cranes shall be operated by qualified operator.

1.7 Elevators

- .1 Designated existing and permanent elevators may not be used by construction personnel and transporting of materials. Co-ordinate use with Engineer.
- .2 Provide protective coverings for finish surfaces of cars and entrances.

1.8 Site Storage/Loading

- .1 Confine work and operations of employees 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.

1.9 Construction Parking

- .1 Parking will be permitted 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 or directed by Engineer and provide snow removal during period of Work.

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

1.10 Security

- .1 Provide and pay for responsible security personnel to guard site and contents of site after working hours and during holidays.

1.11 Offices

- .1 A site office is not required.
- .2 Provide a clearly marked and fully stocked first-aid case in a readily available location.
- .3 Contractors and Subcontractors may provide their own offices as necessary. Direct location of these offices.

1.12 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.

1.13 Sanitary
Facilities

- .1 Provide sanitary 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.

1.14 Construction Signage

- .1 No other signs or advertisements, other than warning signs, are permitted on site.
- .2 Safety and Instruction Signs and Notices:
 - .1 Signs and notices for safety and instruction shall be in both official languages Graphic symbols shall conform to CAN3-Z321.
- .3 Maintenance and Disposal of Site Signs:
 - .1 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 Engineer.

PART 2 - PRODUCTS Not Applicable.

PART 3 - EXECUTION Not Applicable.

1 General

- .1 The Contractor is familiar with all environmental requirements of all Authorities having jurisdiction over this Work and Place and Site. The Contractor is responsible to obtain all required permits, authorizations, submittals and notifications that may be required to perform this Work. The Contractor is responsible to satisfy all inspection, monitoring and regulatory requirements that all the Authorities having jurisdiction over the Work may require. The Contractor has included in their submitted price and the contract price all costs to meet the previously mentioned requirements.
- .2 The Contractor shall at all times be responsible for and protect the existing building and contents from any and all damage that might occur during and because of their work as a result of environmental causes such as wind or rain or others. Should such damage occur the Contractor at no cost to the Owner shall repair or replace such damage to the satisfaction of the Owner.

2 Disposal of
Wastes

- .1 Do not bury rubbish and waste materials on site unless approved by Engineer. Do not burn rubbish on site.
- .2 Do not dispose of waste or volatile materials, such as mineral spirits, oil or paint thinner into waterways, storm or sanitary sewers.

3 Drainage

- .1 Provide temporary drainage and pumping as necessary to keep site free from water.
- .2 Do not pump water containing suspended

materials into waterways, sewer or drainage systems.

- .3 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with local authority requirements.

4 Site Clearing and
Plant Protection

- .1 Protect trees and plants on site and adjacent properties where indicated.

5 Work Adjacent to
Waterways

- .1 Do not dump demolition materials, debris or waste materials in waterways. Any demolition materials and debris that ends up in the water and or bottom of slip is to be removed at the cost of the Contractor.
- .2 Install silt curtain where necessary to prevent material from entering the river either directly or indirectly. Maintain through the course of the Work and remove and dispose of off the Owners property at 100% completion of the Work. Silt curtain to be reviewed and approved by the Owner prior to installation.

6 Pollution Control

- .1 Maintain temporary erosion and pollution control features installed under this contract.
- .2 Control emissions from equipment and plant to local Authorities emission requirements.
- .3 Prevent extraneous materials, such as dust and debris from demolition from

contaminating air beyond Work area, by
providing temporary enclosures.

- .4 Cover or wet down dry materials and rubbish
to prevent blowing dust and debris. Provide
dust control for temporary roads.

PART 1 - GENERAL

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| 1.1 Section | .1 | Progressive cleaning. |
| <u>Includes</u> | .2 | Final cleaning. |

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| 1.2 Related Section | .1 | Section 01770 - Closeout Procedures. |
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| 1.3 Reference | .1 | Canadian Construction Documents Committee |
| <u>Standards</u> | | (CCDC) |
| | .1 | CCDC 2, Stipulated Lump Sum Price Contract. |

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| 1.4 Project | .1 | Maintain Work in tidy condition, free from |
| <u>Cleanliness</u> | | accumulation of waste products and debris, |
| | | including that caused by Owner or other |
| | | Contractors. Do not allow any debris or |
| | | demolition to enter any water ways or |
| | | ditches. Use netting, platforms, false work |
| | | as may be required to insure no demolition |
| | | debris enters the water. |
| | .2 | Remove waste materials from site at |
| | | regularly scheduled times or dispose of as |
| | | directed by Engineer. Do not burn waste |
| | | materials on site. |
| | .3 | Clear snow and ice from access to Work, |
| | | bank/pile snow in designated areas only or |
| | | remove from site. |

- .4 Make arrangements with and obtain permits from all Authorities having jurisdiction over the Work for disposal of waste and debris.
- .5 Provide on-site containers for collection of waste materials and debris.
- .6 Remove waste material and debris from site and deposit in waste container at end of each working day.
- .7 Clean interior areas prior to start of finish work, and maintain areas free of dust and other contaminants during finishing operations.
- .8 Store volatile waste in covered metal containers, and remove from premises at end of each working day.
- .9 Provide adequate ventilation during use of volatile or noxious substances. Use of building ventilation systems is not permitted for this purpose.
- .10 Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning material manufacturer.
- .11 Schedule cleaning operations so that resulting dust, debris and other contaminants will not fall on wet, newly painted surfaces nor contaminate building systems.

1.5 Final Cleaning

- .1 When Work is Substantially Performed, remove surplus products, tools, construction machinery and equipment not required for performance of remaining Work.

- .3 Remove waste products and debris other than that caused by others, and leave Work clean and suitable for occupancy.
- .4 Prior to final review, remove surplus products, tools, construction machinery and equipment.
- .5 Remove waste products and debris including that caused by Owner or other Contractors.
- .6 Remove waste materials from site at regularly scheduled times. Do not burn waste materials on site.
- .7 Make arrangements with and obtain permits from all Authorities having jurisdiction of the Work for disposal of all waste and debris.

PART 2 - PRODUCTS

Not Applicable.

PART 3 - EXECUTION

Not Applicable.

PART 1 - GENERAL

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| <u>1.1 Section Includes</u> | .1 Administrative procedures preceding preliminary and final inspections of Work. |
| <u>1.2 Related Sections</u> | .1 Section 01780 - Closeout Submittals. |
| <u>1.3 References</u> | .1 Canadian Construction Documents Committee (CCDC)
.1 CCDC 2, Stipulated Lump Sum Price Contract. |
| <u>1.4 Inspection and Declaration</u> | .1 Contractor's Inspection: Contractor and all Subcontractors shall conduct an inspection of Work, identify deficiencies and defects, and repair as required to conform to Contract Documents.
.1 Notify Engineer in writing of satisfactory completion of Contractor's Inspection and that corrections have been made.
.2 Request Engineer's Inspection.
.2 Engineer's Inspection: Engineer and Contractor will perform inspection of Work to identify obvious defects or deficiencies. Contractor shall correct Work accordingly.
.3 Completion: submit written certificate that following have been performed: |

- .1 Work has been completed and inspected for compliance with Contract Documents.
- .2 Defects have been corrected and deficiencies have been completed.
- .3 Equipment and systems have been tested, adjusted] and are fully operational.
- .5 Operation of systems have been demonstrated to Owner's personnel.
- .6 Work is complete and ready for Final Inspection.
- .4 Final Inspection: when items noted above are completed, request final inspection of Work by Owner and Engineer, and Contractor. If Work is deemed incomplete by Owner and Engineer, complete outstanding items and request re-inspection.
- .5 Declaration of Substantial Performance: when Owner and Engineer consider deficiencies and defects have been corrected and it appears requirements of Contract have been substantially performed, make application for certificate of Substantial Performance. Refer to CCDC 2, General Conditions, Substantial Performance of Work for specifics to application.
- .6 Commencement of Lien and Warranty Periods: date of Owner's acceptance of submitted declaration of Substantial Performance shall be date for commencement for warranty period and commencement of lien period unless required otherwise by lien statute of Place of Work.
- .7 Final Payment: When Owner and Engineer consider final deficiencies and defects have been corrected and it appears requirements of Contract have been totally performed, make application for final payment. Refer to CCDC 2, General Conditions for specifics to application. If Work is deemed incomplete by Owner and Engineer, complete outstanding items and request re-inspection.

- .8 Payment of Holdback: After issuance of certificate of Substantial Performance of Work, submit an application for payment of holdback amount in accordance with CCDC 2, General Conditions.

PART 2 - PRODUCTS

Not applicable.

PART 3 - EXECUTION

Not Applicable.