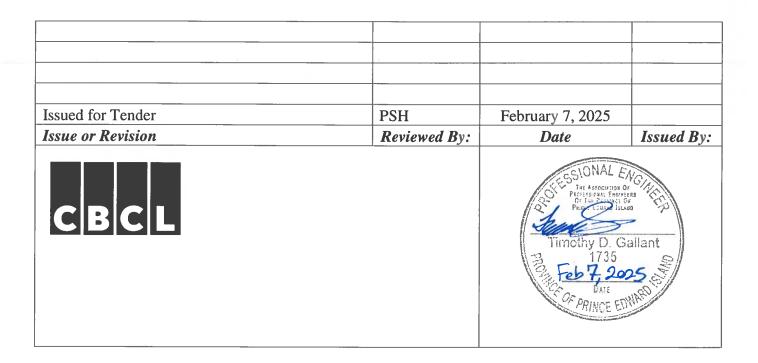
Town of Three Rivers
<u>—</u> —
_ _Queens Road Sidewalk
Upgrades
 Issued for Tender
<u>—</u> <u>—</u>
 February 2025
 Contract 242652.00

Town of Three Rivers

Queens Road Sidewalk Upgrades



Issued for Tender CBCL No: 242652.00

Town of Three Rivers	List of Contents	Section 00 01 11
Queens Road Sidewalk		Page 1
Upgrades		
Contract No. 242652.00		February 2025

Section <u>Title</u>

Division 00 - Procurement and Contracting Requirements
00 21 10 Description of Work and List of Drawings
00 21 13 Instructions to Tenderers
00 41 43 Tender Form (Unit Price)
00 52 43 Form of Agreement
00 71 00 Definitions
00 72 00 General Conditions to CCDC18-2001
00 72 10 Insurance Requirements
00 73 00 Supplementary Conditions to CCDC18-2001
Division 01 - General Requirements
01 10 10 General Instructions
01 29 00 Project Particulars and Measurement
01 33 00 Submittal Procedures
01 35 28 Health and Safety Requirements
01 35 44 Environmental Protection Procedures
01 45 00 Testing and Quality Control
01 55 26 Traffic Regulation
01 77 00 Closeout Procedures
01 78 00 Closeout Submittals
Division 02 - Existing Conditions
02 41 10 Demolition, Removals and Modifications
Division 03 - Concrete
03 30 00 Cast-In-Place Concrete
os so oo case in riace concrete
Division 31 - Earthwork
31 22 13 Site Grading and Finishing
31 23 10 Excavating Trenching and Backfilling
Pinining 22 Betauing Temperatur
Division 32 - Exterior Improvements
32 12 15 Asphalt Tack Coat
32 12 16 Asphalt Paving
32 15 60 Roadway Dust Control 32 16 15 Sidewalk and Curbs
32 17 26 Cast in Place Replaceable Tactile/Detectable Warning
Surface Tiles
32 91 21 Topsoil Placement and Grading
32 92 22 Hydraulic Seeding
32 98 00 Reinstatement

Town of Three Rivers	List of Contents	Section 00 01 11
Queens Road Sidewalk		Page 2
Upgrades		
Contract No. 242652.00		February 2025

Division 33 - Utilities

33	39	00	Precast Structures
33	42	13	Storm Sewer

Town of Three Rivers Queens Road Sidewalk	Description of Work and List of Drawings	Section 00 21 10 Page 1
Upgrades	,	3
Contract No.242652.00		February 2025

1. GENERAL

The project is located in Montague, PEI. The work generally includes the construction of sidewalks, curb & gutters, and associated stormwater work along Queens Road from 184 Queens Road to Bailey Drive and along Queens Road Extension from Main Street to Campbell Avenue. Work will generally include, but necessarily limited to: project layout, temporary traffic control, utility accommodation, excavation and disposal of existing materials, new concrete sidewalks c/w tactile warning tiles, concrete curb & gutter, storm sewer upgrades, road widening, and reinstatement.

2. LIST OF DRAWINGS

DRAWING

1.

NO.	TITLE
_	Cover
C01	Queens Road Sta. 0+000 to 0+140
C02	Queens Road Sta. 0+140 to 0+280
C03	Queens Road Extension Sta. 1+000 to 1+287
C04	Details
C05	Details & Sections

- 6 -1 -1		~	
Town of Three Rivers	Instruction to	Section 00 21 13	
Queens Road Sidewalk	Tenderers	Page 1	
Upgrades			
Contract No. 224652.00		February 2025	

- 1. A complete Tender is comprised of the following:
 - a) The Tender Form in its entirety, with all pages and spaces for entry of information by Tenderers filled in as instructed.
 - b) Addenda received by the Tenderer during the tendering period.
 - c) Tender Security (refer to clause 12 herein).
- 2. The tender shall be submitted in a sealed envelope marked as follows:

TENDER FOR

Town of Three Rivers Queens Road Sidewalk Upgrades Contract No.242652.00

and must be delivered to the following address up until 2:00:00 p.m., local time, on Thursday, February 27, 2025, hereinafter referred to as the Tender Closing.

Three Rivers Town Hall 172 Fraser Street Montague, PE COA 1RO

- 3. Tender opening will occur immediately following tender closing. Tender opening will be public.
- 4. Before tendering, Tenderers should have examined the site of the work and shall have satisfied themselves as to the working conditions, including labour conditions and labour rules, the nature and kind of work to be done, any special risks associated therewith and all other matters which may be necessary in order to form a proper conception under which the work will be required to be performed. Tenderers shall not be entitled to claim at any time after execution of the Contract that there was any misunderstanding in regard to all such conditions.
- 5. When forming their estimates and preparing their tenders, Tenderers shall take full cognizance of the content of all the Contract Documents listed in Section 00 41 43.
- 6. Any questions, ambiguities, inconsistencies, or uncertainties in the Contract Documents which may become apparent to Tenderers when tendering shall be advised IN WRITING to Rachel McIntosh: rmcintosh@cbcl.ca not less than three (3) working days before Tender closing. Tenderers will be advised simultaneously of any decisions on such matters as necessary by means of addenda (which will be serially numbered).
- 7. The Tenderer shall fill in the Completion Time and is notified that the start and completion date will be evaluated in conjunction with the tender price.

Town of Three Rivers Queens Road Sidewalk	Instruction to Tenderers	Section 00 21 13 Page 2
Upgrades		
Contract No. 224652.00		February 2025

- 8. All tenders shall be valid for acceptance for sixty (60) calendar days from the Closing Date.
- 9. The Agreement is included in the Contract Documents at the time of tendering only for information and shall not be completed at the time of tendering.
- 10. The appending of any qualifying clauses to the tender or failure to comply with these instructions and with all other relevant provisions contained in the documents in the completing of any tender renders such tender liable to disqualification.
- 11. Contract Price to exclude HST. Harmonized sales tax shall be indicated as a separate amount and included in the Total Amount Payable.
- 12. Each tender shall be accompanied by Tender Security in the amount of ten percent (10%) of the Total Amount Payable in evidence of the bona fide nature of the tender. This Tender Security shall be in favour of the Owner and shall be in the form of a Certified Cheque, irrevocable Letter of Credit or a Bid Bond which shall guarantee to the Owner that in the event of the successful Tenderer declining to enter into a formal agreement with the Owner as called for in the Contract Documents, or declining or neglecting to provide the Insurance or Contract Security required by the Contract Documents, then the Owner will be reimbursed the additional cost of accepting another tender or Tender Security amount, whichever is the lesser.
 - .1 The bonds shall be issued by a company whose guarantee bonds are acceptable to the Government of Canada. Use latest edition of CCDC Form 220.
- 13. The "Province of Prince Edward Island", "Town of Three Rivers", "Montague Sewer and Water Corporation", "CBCL Limited" is to be added to all insurance policies as an "Additional Insured".
- 14. The Tender Security of the unsuccessful Tenderers will be returned to them after the Owner enters into a formal agreement with the successful Tenderer or the expiration of validity of their tenders, whichever is the sooner.
- 15. On the written acceptance by the Owner of a tender, that tender becomes the Contract and the Tenderer who has submitted it becomes the Contractor. The Contractor will be required to enter into a formal agreement with the Owner following receipt of a written notice of acceptance from the Owner. The written notice of acceptance forms a Contract Agreement until the formal "Agreement" is executed.
- 16. Within seven (7) days of written acceptance of a tender that tender shall provide Contract Security in the amount and form as specified in GC 11.2 and as supplemented in Section 00 73 00, and Insurance as specified in GC 11.1.
- 17. Complete the Tender Form in ink and have corrections initialled by the individual signing the tender.

Town of Three Rivers	Instruction to	Section 00 21 13
Queens Road Sidewalk Upgrades	Tenderers	Page 3
Contract No. 224652.00		February 2025

- 18. Where manufactured articles are described or specified in the Contract Documents by name, catalogue number of a manufacturer or supplier, Tenderers shall tender on the basis of using only such articles. Procedure concerning substitution of a specified article with another shall be in accordance with equivalents and alternates in Section 01 00 00.
- 19. The Owner will not defray any expenses whatsoever incurred by Tenderers in the preparation and submission of their tenders. The Owner reserves the right to waive any formality or technicality in any tender.
- 20. The Owner reserves the right to accept or to reject any or all tenders received, or to select a tender which is deemed by the Owner to be in its best interests.
- 21. Tenders, which in the opinion of the Owner are considered to be informal or unbalanced, may be rejected.
- 22. The project budget is sensitive and following the close of tenders and prior to award, it may be necessary to adjust the scope to match available dollars.
- 23. Tenders may be amended or withdrawn by letter, or facsimile, prior to Tender Closing. Amendments shall not disclose either original or revised total price.
 - 1. Head amendment or withdrawal as follows: "[Amendment]/[Withdrawal] of Tender for the "Queens Road Sidewalk Upgrades, Contract 242652.00". Signed and seal as required for tender and submit at the address given for receipt of tenders. All submissions must be received prior to Tender Closing.

Town of Three Rivers	TENDER FORM -	Section 00 41 43
Queens Road Sidewalk	UNIT RATE	Page 1
Upgrades		
Contract No. 242652.00		February 2025

1. SALUTATION:

. 1	To:	Town of Three Rivers
		172 Fraser Street, PO Box 546
		Montague, PE COA 1RO
. 2	For:	Queens Road Sidewalk Upgrades
		Contract No. 242652.00
. 3	From	
	-	

2. TENDERER DECLARES:

- .1 That this tender was made without collusion or fraud.
- .2 That the proposed work was carefully examined.
- .3 To have personal knowledge of the location of the proposed Work and is informed as to the actual conditions and requirements, including labour conditions and labour rules and shall not claim at any time after execution of the Agreement that there was any misunderstanding in regard to such conditions and requirements.
- .4 That Contract Documents and Addenda No. ___ to ___ inclusive were carefully examined.
- .5 That all the above were taken into consideration in preparation of this Tender.

3. TENDERER AGREES:

- .1 To enter into a contract to supply all labour, material and equipment and to do all work necessary to construct the Work as described and specified herein for the unit prices stated in Subsection 4 hereunder, Schedule of Quantities and Unit Prices.
- .2 That the estimated Contract Price shall be the sum of the products of the tendered unit prices multiplied by the estimated quantities in Subsection 4 hereunder.
- .3 That this Tender is valid for acceptance for sixty (60) days from the time of Tender Closing.
- .4 That measurement and payment for items listed in Subsection 4 hereunder shall be in accordance with corresponding items in Section 01 29 00 Project Particulars and Measurement.

Town of Three Rivers	TENDER FORM -	Section 00 41 43
Queens Road Sidewalk	UNIT RATE	Page 2
Upgrades		
Contract No. 242652.00		February 2025

- .5 Upon request to provide evidence of ability and experience within 7 days of request, including experience in similar work, work currently under contract, senior supervisory staff available for the project, equipment available for use on the Work, and financial resources.
- .6 To execute in triplicate the Agreement and forward same together with the specified contract security and insurance documents to the Owner within fourteen (14) days of written notice of award.
- .7 That failure to enter into a formal contract and give specified insurance documents and contract security within time required will constitute grounds for forfeiture of certified cheque or enforcement of bid bond.
- .8 That if certified cheque is forfeited, Owner will retain difference in money between amount of Tender and amount for which Owner legally contracts with another party to perform the Work and will refund balance, if any, to Tenderer.
- .10 Understands that in the event that the tendered Contract Price is not within the project budget, the Owner has the right to negotiate the Contract with the low bidder or reject all tenders received.
- .11 Agrees that the Warranty Period defined in the Contract Documents shall be for a period of one (1) year from the date of Substantial Performance of the Work.
- .12 Understands that Substantial Performance of the Work will be established in accordance with General Conditions of the Contract and applicable lien legislation.
- .13 Understands that after the issuance of the certificate of Substantial Performance of the Work by the Consultant, provided that the Contractor has relieved the Owner from any and all claims, demands and lien claims for and in respect of the Contract, and has completed all outstanding items and corrected all deficiencies, the Contractor shall submit an application for Final Payment and the Consultant will thereafter prepare the Final Certificate for payment in accordance with the General Conditions of the Contract and applicable lien legislation

Town of Three Rivers Oueens Road Sidewalk	TENDER FORM - UNIT RATE	Section 00 41 43 Page 3
Upgrades	ONII IUII	rage 5
Contract No. 242652.00		February 2025

- .14 Understands that the payment of holdback will be in accordance with the General Conditions of the Contract and subject to the provisions of the lien legislation applicable to the Place of Work.
- .15 Understands the occupational Health and Safety Legislation and any Workers or Workplace compensation legislation applicable to the Place of the Work and declares that they are in good standing and have all necessary certification as required by such legislation.
- .16 Agrees that time shall be construed as being of the essence of the Contract.
- .17 That the Contract Documents include:
 - .1 Description of work and list of drawings
 - .2 Instruction to Tenderers
 - .3 Tender Form Unit Price
 - .4 Form of Agreement
 - .5 General Conditions of the Civil Work Contract
 - .6 Supplementary General Conditions
 - .7 Drawings

Dwg. No.	Title
_	Cover
C01	Queens Road Sta. 0+000 to 0+140
C02	Queens Road Sta. 0+140 to 0+280
C03	Queens Road Extension Sta. 1+000 to 1+287
C04	Details
C05	Details & Sections

.8 Addenda as issued and as confirmed in subsection 2.4 of this section.

Town of Three Rivers	TENDER FORM -	Section 00 41 43
Queens Road Sidewalk	UNIT RATE	Page 4
Upgrades		
Contract No. 242652.00		February 2025

4. SCHEDULE OF QUANTITIES AND UNIT PRICES

Item	Description	Unit	Qty.	Unit F	rice	Amount
1.	Sidewalk Construction					
	.01 1.5m Concrete Sidewalk	M	550			
	.02 Tactile Warning Devices	No.	11			
2.	Concrete Curb & Gutter	М	550			
3.	Storm Sewer					
	.01 300mm Storm Pipe	М	35			
	.02 450mm Storm Pipe	М	220			
	.03 600mm Storm Pipe	М	10			
•	Precast Structures					
	.01 450mm Catch Pit	No.	7			
	.02 1050mm Catch Basin	No.	7			
	.03 1200mm Catch Basin	No.	1			
	.04 1500mm Catch Basin	No.	1			
	Environmental Protection					
	.01 Straw Check Dams	No.	9			
	.02 Sediment Control into Storm Structure	No.	18			
	.03 Sediment Control Fence	М	50			
•	Reinstatement					
	.01 Topsoil and Hydroseed	M2	1500			
	.02 Granular Surface	M2	125			
	.03 Asphalt Surface	M2	950			
•	Remove and Replace Unsuitable Material (Provisional)	C.M.	500			
	Subtot	cal		\$		
	TENDER SUMM	IARV				
istí	mated Contract Price (Excluding HST)		\$_			
\dd	HST (15% of the Estimated Contract P	rice)	\$_			
	L AMOUNT PAYABLE		\$			

Town of Three Rivers	TENDER FORM -	Section 00 41 43
Queens Road Sidewalk	UNIT RATE	Page 5
Upgrades		
Contract No. 242652.00		February 2025
TENDERER'S HST REGISTRATION	NO.	
TENDERER'S HST REGISTRATION 5. COMPLETION TIME	NO.	
		weeks after award and to

Town of Three Rivers Queens Road Sidewalk Upgrades	TENDER FORM - UNIT RATE	Section 00 41 43 Page 6
Contract No. 242652.00		February 2025
6. SIGNATURE *		
DATED THIS DAY OF		202
		[Seal]
	Name of Firm T	Tendering
	Signature of S	Signing Officer
Witness	Name and Title	e (Printed)
Witness	Signature of S	Signing Officer
	Name and Title	e (Printed)
Company Address	_	
Telephone No.	-	
Fax No.	-	
*NOTE: Tenders submitted by or or and sealed in the name of officer or agent.		

END

Town of Thi	ree Rivers	Form of Agreeme	ent	Section 00 52 43
Queens Road	d Sidewalk	<u> </u>		Page 1
Upgrades				
Contract No	242652.00			February 2025
General				
basis		Civil Works Contract between the Owner a words and terms.		
This	Agreement made on _	day of	in the	year
BY AN	D BETWEEN			
Town	of Three Rivers			
, ,	C. 17 1 1 1			
herei	nafter called the '	"Owner"		
and				
herei	nafter called the '	"Contractor"		
The O	wner and the Contra	actor agree as follo	ows:	
ARTIC	LE A1 - THE WORK			
The C	ontractor shall:			
.1	Perform the Work r	required by the Cont	ract Documen	nts for
	Queens Road Sidewa	ılk Upgrades, Contra	ct: 242652.0	00
	located at Montagu	e, PEI		
	for which the Agrewhich CBCL Limited	eement has been sign l	ed by the pa	arties, and for
		(Insert ab	ove the name	of the Consultant)
	is acting as and i	s hereinafter calle	ed the "Consu	ıltant"
	and			
.2	do and fulfill eve	erything indicated b	y this Agree	ement, and
.3	attain Substantial	by theday of Performance as cer in the year	tified by th	

Town of Three Rivers	Form of Agreement	Section 00 52 43
Queens Road Sidewalk		Page 2
Upgrades		
Contract No. 242652.00		February 2025

ARTICLE A2 - AGREEMENTS AND AMENDMENTS

The Contract supersedes all prior negotiations, representations, or agreements, either written or oral, relating in any manner to the work, including the bidding documents that are not expressly listed in Article 3 of the Agreement.

ARTICLE A3 - CONTRACT DOCUMENTS

The following are the Contract Documents referred to in Article A1 of the Agreement - THE WORK:

- .1 Tender Form
- .2 Supplementary Tender Information
- .3 Agreement Between Owner and Contractor
- .4 Definitions
- .5 The General Conditions of the Contract
- .6 Supplementary General Conditions
- .7 Schedule of Quantities and Unit Prices
- .8 Specifications (as included in Specification Section 00 01 11, List of Contents)
- .9 Drawings (as listed in Specification Section 00 21 10, Description of Work and List of Drawings)
- .10 Addenda ___ through ___

ARTICLE A4 - CONTRACT PRICE

.1	Unit Prices form the basis for payment of the Contract Price.
	Quantities in the Schedule of Quantities and Unit Prices are
	estimated. The estimated Contract Price, which is the total
	extended amount indicated in the Schedule of Quantities and Unit
	Prices, is:

- .2 All amounts are in Canadian funds. Unit Prices $\underline{\textbf{exclude}}$ HST and Contract Price $\underline{\textbf{includes}}$ HST.
- .3 These amounts shall be subject to adjustments as provided in the Contract Documents.
- .4 The Contract Price will be the sum of the products of the actual final quantities that are incorporated in, or made necessary by the Work, as confirmed by count and measurement, multiplied by the appropriate Unit Prices from the Tender Form together with any adjustments that are made in accordance with the provisions of the Contract Documents plus the amount of GST.

Town of Three Rivers	Form of Agreement	Section 00 52 43
Queens Road Sidewalk		Page 3
Upgrades		
Contract No. 242652.00		February 2025

ARTICLE A5 - PAYMENT

- Subject to the provisions of the *Contract Documents*, the *Owner* shall make monthly payments on account to the *Contractor* for the work performed, as certified by the *Consultant*, subject to a fifteen percent (15%) holdback, the *Owner* shall in Canadian funds:
 - .1 make progress payments to the *Contractor* on account of the *Contract Price* when due in the amount certified by the *Consultant* together with such *Value Added Taxes* as may be applicable to such payment, and
 - .2 The Owner shall release to the Contractor the holdback within two weeks of the date on which all of the following requirements have been met:
 - (a) 60 days have elapsed from the Date of Substantial Performance of the Works as certified by the Consultant.
 - (b) 7 days have elapsed from the date on which the Consultant issued the Certificate of Substantial Performance of the Works.
 - (c) The Contractor has signed the Final Measure.
 - (d) The Contractor has provided the Consultant with the following documents.
 - (1) a statutory declaration to the effect that all expenses incurred in carrying out the Contract have been paid and releasing the Authority from any and all further claims relating to the Contract.
 - (2) a certificate from a Barrister stating that there are no Mechanics' Liens filed relating to the contract works.
 - (3) a clearance certificate from the Worker's Compensation Board, and
 - .3 upon the issuance of the final certificate for payment, pay to the *Contractor* the unpaid balance of the *Contract Price* when due together with such *Value Added Taxes* as may be applicable to such payment.
- .2 In the event of loss or damage occurring where payment becomes due under the property and boiler insurance policies, payments shall be made to the *Contractor* in accordance with the provisions of GC11.1 INSURANCE.

.3 Interest:

- .1 Should either party fail to make payments as they become due under the terms of the Contract or in an award by arbitration or court, interest at two percent (2%) per annum above the prime rate on such unpaid amounts shall also become due and payable until payment. Such interest shall be compounded on a monthly basis. The bank rate shall be the rate established by the Bank of Canada as the minimum rate at which the Bank of Canada makes short term advances to the chartered banks.
- .2 Interest shall apply at the rate and in the manner prescribed by paragraph 5.3.1 of this Article on the settlement amount of any claim in dispute that is resolved either pursuant to Part 8 of the General Conditions DISPUTE RESOLUTION or otherwise,

Town of Three Rivers	Form of Agreement	Section 00 52 43
Queens Road Sidewalk Upgrades		Page 4
Contract No. 242652.00		February 2025

from the date the amount would have been due and payable under the *Contract*, had it not been in dispute, until it is paid.

ARTICLE A6 - RECEIPT OF AND ADDRESSES FOR NOTICES

.1 Notices in writing between the parties or between them and the Consultant shall be considered to have been received by the addressee on the date of delivery if delivered to the individual, or to a member of the firm, or to an officer of the corporation for whom they are intended by hand or by registered post; or if sent by regular post, to have been delivered within 5 Working Days of the date of mailing when addressed as follows:

The	Owner at 172 Fraser Street, PO Box 546
Mon	itague, PE COA 1RO
	(Address of Owner)
The	Contractor at
	(Address of Contractor)
The	Consultant at 135 St. Peters Road, P.O. Box 1659
Cha:	rlottetown, PE C1A 7N4
	(Address of Consultant)

ARTICLE A7 - QUANTITIES AND MEASUREMENT

- .1 The quantities shown in Section 00 41 43 Tender Form Schedule of Quantities and Unit Prices are estimated.
- .2 Measurement for the actual quantities used to determine payments and Contract Price shall be in accordance with Section 01 29 00 Project Particulars and Measurement.

ARTICLE A8 - SUCCESSION

The aforesaid *Contract Documents* are to be read into and form part of the Agreement and the whole shall constitute the *Contract* between the parties and subject to law and the provisions of the Contract Documents shall enure to the benefit of and be binding upon the parties hereto, their respective heirs, legal representatives, successors and assigns.

ARTICLE A9 - RIGHTS AND REMEDIES

No action or failure to act by the *Owner, Consultant*, or *Contractor* shall constitute a waiver of any right or duty afforded any of them under the Contract, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach thereunder, except as may be specifically agreed in writing.

Town of Three Rivers	Form of Agreement	Section 00 52 43
Queens Road Sidewalk		Page 5
Upgrades		
Contract No. 242652.00		February 2025

ARTICLE A10 - TIME

Time shall be construed as being of the essence of the *Contract*. The *Works* will be completed by the date indicated in Article Al herein and shall be referred to as the *Date of Completion*.

ARTICLE A11- LIQUIDATED DAMAGES

Should the *Contractor* fail to complete the works by the *Date of Completion*, the period of time from the *Date of Completion* to the time until all required *Work* is performed completely as determined by the *Consultant*, shall be termed the Period of Delay.

In the event of there being a Period of Delay, the Contractor will be liable for and will pay to the Owner the cost of continuance of supervision during the Period of Delay, and all additional fees, disbursements and costs incurred by the Owner by reason of there being such Period of Delay for each and every calendar day that the work or works shall remain unfinished after the time so specified. The said sum or sums in view of the difficulty of ascertaining the losses which the Owner may suffer by reason of delay in the performance of the said Works, is hereby agreed upon, fixed and determined by the parties hereto as liquidated damages that the Owner will suffer by reason of said delay and default and not as penalty. The Contractor agrees to pay the Owner liquidated damages for each payment following the event until the project reaches Substantial Performance as certified by the Consultant.

Tebruary 2025 ted this Agreement and by the ree Rivers ner itle of Person Signing itle of Person Signing
ree Rivers ner itle of Person Signing itle of Person Signing
itle of Person Signing itle of Person Signing
itle of Person Signing itle of Person Signing
itle of Person Signing itle of Person Signing
itle of Person Signing
itle of Person Signing
ntractor
itle of Person Signing
itle of Person Signing
er or Contractor requirements ment, attach such proof of tion naming the r and on behalf of the corporate seal, this Agreement

END OF SECTION

Town of Three Rivers	Definitions	Section 00 71 00
Queens Road Sidewalk	(CCDC 18-2001)	Page 1
Upgrades		
Contract No. 242652.00		February 2025

DEFINITIONS

DEFINITIONS

The following definitions shall apply to all *Contract Documents*.

1. Change Directive

A Change Directive is a written instruction prepared by the Consultant and signed by the Owner directing the Contractor to proceed with a change in the Work within the general scope of the Contract Documents prior to the Owner and the Contractor agreeing upon an adjustment in Contract Price and Contract Time.

2. Change Order

A *Change Order* is a written amendment to the *Contract* prepared by the *Consultant* and signed by the *Owner* and the *Contractor* stating their agreement upon:

- a change in the Work;
- the method of adjustment or the amount of the adjustment in the Contract Price, if any; and
- the extent of the adjustment in the Contract Time, if any.

3. Construction Equipment

Construction Equipment means all machinery and equipment, either operated or not operated, that is required for preparing, fabricating, conveying, erecting, or otherwise performing the Work but is not incorporated into the Work.

4. Consultant

The Consultant is the person or entity identified as such in the Agreement. The Consultant is the Engineer or other entity licensed to practise in the province or territory of the Place of the Work. The term Consultant means the Consultant or the Consultant's authorized representative.

5. Contract

The *Contract* is the undertaking by the parties to perform their respective duties, responsibilities, and obligations as prescribed in the *Contract Documents* and represents the entire agreement between the parties.

6. Contract Documents

The *Contract Documents* consist of those documents listed in Article A-3 of the Agreement - CONTRACT DOCUMENTS and amendments agreed upon between the parties.

7. Contract Price

When *Unit Prices* form the basis of payment, the *Contract Price* is the sum of the product of each *Unit Price* stated in the *Schedule of Prices* multiplied by the appropriate actual quantity of each item that is incorporated in or made necessary by the Work, plus lump sums, if any, and allowances, if any, stated in the *Schedule of Prices*. When a lump sum stipulated price forms the basis of payment, the *Contract Price* is the amount stipulated in Article A-4 of the Agreement - CONTRACT PRICE.

8. Contract Time

The Contract Time is the time stipulated in paragraph 1.3 of Article A-1 of the Agreement - THE WORK from commencement of the Work to Substantial Performance of the Work.

9. Contractor

The *Contractor* is the person or entity identified as such in the Agreement. The term *Contractor* means the *Contractor* or the *Contractor*'s authorized representative as designated to the *Owner* in writing.

10. Drawings

The *Drawings* are the graphic and pictorial portions of the *Contract Documents*, wherever located and whenever issued, showing the design, location, and dimensions of the *Work*, generally including plans, elevations, sections, details, schedules, and diagrams.

11. Owner

The Owner is the person or entity identified as such in the Agreement. The term Owner means the Owner or the Owner's authorized agent or representative as designated to the Contractor in writing, but does not include the Consultant.

12. Place of the Work

The Place of the Work is the designated site or location of the Work identified in the Contract Documents.

13. Product

Product or Products means material, machinery, equipment, and fixtures forming the Work, but does not include Construction Equipment.

14. Project

The *Project* means the total construction contemplated of which the *Work* may be the whole or a part.

15. Provide

Provide means to supply and install.

16. Schedule of Prices

The Schedule of Prices is the schedule listed in Article A-3 - CONTRACT DOCUMENTS identifying items of work, estimated quantities, units of measure, and Unit Prices.

17. Shop Drawings

Shop Drawings are drawings, diagrams, illustrations, schedules, performance charts, brochures, *Product* data, and other data which the *Contractor* provides to illustrate details of portions of the *Work*.

18. Specifications

The *Specifications* are that portion of the *Contract Documents*, wherever located and whenever issued, consisting of the written requirements and standards for *Products*, systems, workmanship, and the services necessary for the performance of the *Work*.

19. Subcontractor

A Subcontractor is a person or entity having a direct contract with the Contractor to perform a part or parts of the Work, or to supply Products worked to a special design for the Work.

20. Substantial Performance of the Work

Substantial Performance of the Work is as defined in the lien legislation applicable to the Place of the Work. If such legislation is not in force or does not contain such definition, or if the Work is governed by the Civil Code of Quebec, Substantial Performance of the Work shall have been reached when the Work is ready for use or is being used for the purpose intended and is so certified by the Consultant.

21. Supplemental Instruction

A Supplemental Instruction is an instruction, not involving adjustment in the Contract Price or Contract Time, in the form of Specifications, Drawings, schedules, samples, models, or written instructions, consistent with the intent of the Contract Documents. It is to be issued by the Consultant to supplement the Contract Documents as required for the performance of the Work.

22. Supplier

A Supplier is a person or entity having a direct contract with the Contractor to supply Products not worked to a special design for the Work.

23. Temporary Work

Temporary Work means temporary supports, structures, facilities, services, and other temporary things, excluding Construction Equipment, required for the execution of the Work but not incorporated into the Work.

24. Unit Price

A Unit Price is the amount payable for a single unit of work as stated in the Schedule of Prices.

25. Value Added Taxes

Value Added Taxes means such sum as shall be levied upon the Contract Price by the Federal or any Provincial or Territorial Government and is computed as a percentage of the Contract Price and includes the Goods and Services Tax, the Quebec Sales Tax, the Harmonized Sales Tax, and any similar tax, the collection and payment of which is by the Contractor as imposed by the tax legislation.

26. Work

The Work means the total construction and related services required by the Contract Documents.

27. Working Day

Working Day means a day other than a Saturday, Sunday, statutory holiday or statutory vacation day that is observed by the construction industry in the area of the *Place of the Work*.

Town of Three Rivers	General Conditions of the	Section 00 72 00
Queens Road Sidewalk	Civil Works Contract	
Upgrades		Page 1
Contract No. 242652.00	(CCDC 18-2001)	February 2025

GENERAL CONDITIONS

GENERAL CONDITIONS OF THE CIVIL WORKS CONTRACT

PART 1 GENERAL PROVISIONS

GC 1.1 CONTRACT DOCUMENTS

- 1.1.1 The intent of the *Contract Documents* is to include the labour, *Products*, and services necessary for the performance of the *Work* by the *Contractor* in accordance with these documents. It is not intended, however, that the *Contractor* shall supply products or perform work not consistent with, not covered by, or not properly inferable from the *Contract Documents*.
- 1.1.2 Except for the provisions of article 12.3.6, nothing contained in the *Contract Documents* shall create any contractual relationship between:
 - .1 the Owner and a Subcontractor, a Supplier, or their agent, employee, or other person performing any of the Work.
 - .2 the Consultant and the Contractor, a Subcontractor, a Supplier, or their agent, employee, or other person performing any of the Work.
- 1.1.3 The Contract Documents are complementary, and what is required by any one shall be as binding as if required by all.
- 1.1.4 Words and abbreviations which have well known technical or trade meanings are used in the *Contract Documents* in accordance with such recognized meanings.
- 1.1.5 References in the *Contract Documents* to the singular shall be considered to include the plural as the context requires.
- 1.1.6 Neither the organization of the *Specifications* nor the arrangement of *Drawings* shall control the *Contractor* in dividing the work among *Subcontractors* and *Suppliers*.
- 1.1.7 If there is a conflict within the *Contract Documents*:
 - .1 the order of priority of documents, from highest to lowest, shall be
 - the Agreement between the Owner and the Contractor,
 - the Definitions.
 - Supplementary Conditions,
 - the General Conditions,
 - the Specifications,
 - material and finishing schedules.
 - the Drawings.
 - .2 Drawings of larger scale shall govern over those of smaller scale of the same date.
 - .3 dimensions shown on *Drawings* shall govern over dimensions scaled from *Drawings*.
 - .4 later dated documents shall govern over earlier documents of the same type.
- 1.1.8 The *Owner* shall provide the *Contractor*, without charge, sufficient copies of the *Contract Documents* to perform the *Work*.
- 1.1.9 Specifications, Drawings, models, and copies thereof furnished by the Consultant are and shall remain the Consultant's property, with the exception of the signed Contract sets, which shall belong to each party to the Contract. All Specifications, Drawings, and models furnished by the Consultant are to be used only with respect to the Work and are not to be used on other work. These Specifications, Drawings, and models are not to be copied or altered in any manner without the written authorization of the Consultant.
- 1.1.10 Models furnished by the *Contractor* at the *Owner*'s expense are the property of the *Owner*.

GC 1.2 LAW OF THE CONTRACT

1.2.1 The law of the *Place of the Work* shall govern the interpretation of the *Contract*.

8 CCDC 18 – 2001

GC 1.3 RIGHTS AND REMEDIES

- 1.3.1 Except as expressly provided in the *Contract Documents*, the duties and obligations imposed by the *Contract Documents* and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights, and remedies otherwise imposed or available by law.
- 1.3.2 No action or failure to act by the *Owner*, *Consultant*, or *Contractor* shall constitute a waiver of any right or duty afforded any of them under the *Contract*, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach thereunder, except as may be specifically agreed in writing.

GC 1.4 ASSIGNMENT

1.4.1 Neither party to the *Contract* shall assign the *Contract* or a portion thereof without the written consent of the other, which consent shall not be unreasonably withheld.

PART 2 ADMINISTRATION OF THE CONTRACT

GC 2.1 AUTHORITY OF THE CONSULTANT

- 2.1.1 The *Consultant* will have authority to act on behalf of the *Owner* only to the extent provided in the *Contract Documents*, unless otherwise modified by written agreement as provided in paragraph 2.1.2.
- 2.1.2 The duties, responsibilities, and limitations of authority of the *Consultant* as set forth in the *Contract Documents* shall be modified or extended only with the written consent of the *Owner*, the *Contractor*, and the *Consultant*.
- 2.1.3 If the *Consultant*'s employment is terminated, the *Owner* shall immediately appoint or reappoint a *Consultant* against whom the *Contractor* makes no reasonable objection and whose status under the *Contract Documents* shall be that of the former *Consultant*.

GC 2.2 ROLE OF THE CONSULTANT

- 2.2.1 The Consultant will provide administration of the Contract as described in the Contract Documents during construction until issuance of the final certificate for payment, and subject to GC 2.1 AUTHORITY OF THE CONSULTANT and with the Owner's concurrence, from time to time until the completion of any correction of defects as provided in paragraph 12.3.3 of GC 12.3 WARRANTY.
- 2.2.2 The *Consultant* may provide at the *Place of the Work*, one or more project representatives to assist in carrying out the *Consultant*'s responsibilities. The duties, responsibilities, and limitations of authority of such project representatives shall be as set forth in writing to the *Contractor*.
- 2.2.3 The Consultant will review the Work at intervals appropriate to the progress of construction to:
 - .1 become familiar with the progress and quality of the Work,
 - .2 determine if the Work is proceeding in general conformity with the Contract Documents, and
 - .3 verify quantities of Work performed under a Schedule of Prices.
- 2.2.4 Based on the *Consultant*'s observations and evaluation of the *Contractor*'s applications for payment, the *Consultant* will determine the amounts owing to the *Contractor* under the *Contract* and will issue certificates for payment as provided in Article A-5 of the Agreement PAYMENT, GC 5.3 PROGRESS PAYMENT, and GC 5.7 FINAL PAYMENT.
- 2.2.5 The Consultant will not be responsible for and will not have control, charge, or supervision of construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs required in connection with the Work in accordance with the applicable construction safety legislation, other regulations, or general construction practice. The Consultant will not be responsible for the Contractor's failure to carry out the Work in accordance with the Contract Documents. The Consultant will not have control over, charge of, or be responsible for the acts or omissions of the Contractor, Subcontractors, Suppliers, or their agents, employees, or any other persons performing portions of the Work.

- 2.2.6 The Consultant will be, in the first instance, the interpreter of the requirements of the Contract Documents and shall make findings as to the performance thereunder by both parties to the Contract, except with respect to GC 5.1 FINANCING INFORMATION REQUIRED OF THE OWNER. Interpretations and findings of the Consultant shall be consistent with the intent of the Contract Documents. When making such interpretations and findings the Consultant will not show partiality to either the Owner or the Contractor.
- 2.2.7 Matters in question relating to the performance of the Work or the interpretation of the *Contract Documents*, except for GC 5.1 FINANCING INFORMATION REQUIRED OF THE OWNER, shall be referred initially to the *Consultant* by notice in writing given to the *Consultant* and to the other party for the *Consultant*'s interpretation and finding which will be be given by notice in writing to the parties within a reasonable time. With respect to claims, the *Consultant* will make findings as set out in GC 6.6 CLAIMS, paragraph 6.6.5.
- 2.2.8 The Consultant will have authority to reject work which in the Consultant's opinion does not conform to the requirements of the Contract Documents. Whenever the Consultant considers it necessary or advisable, the Consultant will have authority to require inspection or testing of work, whether or not such work is fabricated, installed, or completed. However, neither the authority of the Consultant to act nor any decision either to exercise or not to exercise such authority shall give rise to any duty or responsibility of the Consultant to the Contractor, Subcontractors, Suppliers, or their agents, employees, or other persons performing any of the Work.
- 2.2.9 During the progress of the *Work* the *Consultant* will furnish *Supplemental Instructions* to the *Contractor* with reasonable promptness or in accordance with a schedule for such instructions agreed to by the *Consultant* and the *Contractor*.
- 2.2.10 The *Consultant* will review and take appropriate action upon such *Contractor*'s submittals as *Shop Drawings*, *Product* data, and samples, as provided in the *Contract Documents*.
- 2.2.11 The *Consultant* will prepare *Change Orders* and *Change Directives* as provided in GC 6.2 CHANGE ORDER and GC 6.3 CHANGE DIRECTIVE.
- 2.2.12 The Consultant will conduct reviews of the Work to determine the date of Substantial Performance of the Work as provided in GC 5.4 SUBSTANTIAL PERFORMANCE OF THE WORK.
- 2.2.13 All certificates issued by the *Consultant* will be to the best of the *Consultant*'s knowledge, information, and belief. By issuing any certificate, the *Consultant* does not guarantee the *Work* is correct or complete.
- 2.2.14 The *Consultant* will receive and review written warranties and related documents required by the *Contract* and provided by the *Contractor* and will forward such warranties and documents to the *Owner* for the *Owner*'s acceptance.

GC 2.3 REVIEW AND INSPECTION OF THE WORK

- 2.3.1 The Owner and the Consultant shall have access to the Work at all times. The Contractor shall provide sufficient, safe, and proper facilities at all times for the review of the Work by the Consultant and the inspection of the Work by authorized agencies. If parts of the Work are in preparation at locations other than the Place of the Work, the Owner and the Consultant shall be given access to such work whenever it is in progress.
- 2.3.2 If work is designated for tests, inspections, or approvals in the *Contract Documents*, or by the *Consultant*'s instructions, or the laws or ordinances of the *Place of the Work*, the *Contractor* shall give the *Consultant* reasonable notice of when the work will be ready for review and inspection. The *Contractor* shall arrange for and shall give the *Consultant* reasonable notice of the date and time of inspections by other authorities.
- 2.3.3 The *Contractor* shall furnish promptly to the *Consultant* two copies of certificates and inspection reports relating to the *Work*.
- 2.3.4 If the *Contractor* covers, or permits to be covered, work that has been designated for special tests, inspections, or approvals before such special tests, inspections, or approvals are made, given or completed, the *Contractor* shall, if so directed, uncover such work, have the inspections or tests satisfactorily completed, and make good covering work at the *Contractor*'s expense.

10 CCDC 18 – 2001

- 2.3.5 The Consultant may order any portion or portions of the Work to be examined to confirm that such work is in accordance with the requirements of the Contract Documents. If the work is not in accordance with the requirements of the Contract Documents, the Contractor shall correct the work and pay the cost of examination and correction. If the work is in accordance with the requirements of the Contract Documents, the Owner shall pay the cost of examination and restoration.
- 2.3.6 The *Contractor* shall pay the cost of making any test or inspection, including the cost of samples required for such test or inspection, if such test or inspection is designated in the *Contract Documents* to be performed by the *Contractor* or is designated by the laws or ordinances of the *Place of the Work*.
- 2.3.7 The *Contractor* shall pay the cost of samples required for any test or inspection to be performed by the *Consultant* or the *Owner* if such test or inspection is designated in the *Contract Documents*.

GC 2.4 DEFECTIVE WORK

- 2.4.1 The *Contractor* shall promptly remove from the *Place of the Work* and replace or re-execute defective work that has been rejected by the *Consultant* as failing to conform to the *Contract Documents* whether or not the defective work has been incorporated in the *Work* and whether or not the defect is the result of poor workmanship, use of defective products, or damage through carelessness or other act or omission of the *Contractor*.
- 2.4.2 The *Contractor* shall make good promptly other contractors' work destroyed or damaged by such removals or replacements at the *Contractor*'s expense.
- 2.4.3 If in the opinion of the *Consultant* it is not expedient to correct defective work or work not performed as provided in the *Contract Documents*, the *Owner* may deduct from the amount otherwise due to the *Contractor* the difference in value between the work as performed and that called for by the *Contract Documents*. If the *Owner* and the *Contractor* do not agree on the difference in value, they shall refer the matter to the *Consultant* for a determination.

PART 3 EXECUTION OF THE WORK

GC 3.1 CONTROL OF THE WORK

- 3.1.1 The *Contractor* shall have total control of the *Work* and shall effectively direct and supervise the *Work* so as to ensure conformity with the *Contract Documents*.
- 3.1.2 The *Contractor* shall be solely responsible for construction means, methods, techniques, sequences, and procedures and for co-ordinating the various parts of the *Work* under the *Contract*.

GC 3.2 CONSTRUCTION BY OWNER OR OTHER CONTRACTORS

- 3.2.1 The *Owner* reserves the right to award separate contracts in connection with other parts of the *Project* to other contractors and to perform work with own forces.
- 3.2.2 When separate contracts are awarded for other parts of the *Project*, or when work is performed by the *Owner*'s own forces, the *Owner* shall:
 - .1 provide for the co-ordination of the activities and work of other contractors and *Owner*'s own forces with the *Work* of the *Contract*;
 - .2 assume overall responsibility for compliance with the applicable health and construction safety legislation at the *Place of the Work*;
 - .3 enter into separate contracts with other contractors under conditions of contract which are compatible with the conditions of the *Contract*;
 - 4 ensure that insurance coverage is provided to the same requirements as are called for in GC 11.1 INSURANCE and co-ordinate such insurance with the insurance coverage of the *Contractor* as it affects the *Work*; and
 - 5 take all reasonable precautions to avoid labour disputes or other disputes on the *Project* arising from the work of other contractors or the *Owner*'s own forces.

- 3.2.3 When separate contracts are awarded for other parts of the *Project*, or when work is performed by the *Owner's* own forces, the *Contractor* shall:
 - .1 afford the *Owner* and other contractors reasonable opportunity to introduce and store products and use the *Owner*'s or other contractor's construction equipment to execute their work;
 - .2 cooperate with other contractors and the Owner in reviewing their construction schedules; and
 - .3 where part of the *Work* is affected by or depends upon for its proper execution the work of other contractors or *Owner*'s own forces, promptly report to the *Consultant* in writing and prior to proceeding with that part of the *Work*, any apparent deficiencies in such work
- 3.2.4 Where the *Contract Documents* identify the work to be performed by other contractors or the *Owner*'s own forces, the *Contractor* shall coordinate and schedule the *Work* with the work of other contractors and the *Owner*'s own forces and interface as specified in the *Contract Documents*.
- 3.2.5 Where a change in the *Work* is required as a result of the co-ordination and interface of the work of other contractors or *Owner*'s own forces with the *Work*, the changes shall be authorized and valued as provided in GC 6.1 CHANGES, GC 6.2 CHANGE ORDER, and GC 6.3 CHANGE DIRECTIVE.
- 3.2.6 Disputes, and other matters in question between the *Contractor* and other contractors shall be dealt with as provided in Part 8 of the General Conditions DISPUTE RESOLUTION provided the other contractors have reciprocal obligations. The *Contractor* shall be deemed to have consented to arbitration of any dispute with any other contractor whose contract with the *Owner* contains a similar agreement to arbitrate.

GC 3.3 TEMPORARY WORK

- 3.3.1 The *Contractor* shall have the sole responsibility for the design, erection, operation, maintenance, and removal of *Temporary Work*.
- 3.3.2 The *Contractor* shall engage and pay for registered professional engineering personnel skilled in the appropriate disciplines to perform those functions referred to in paragraph 3.3.1 where required by law or by the *Contract Documents* and in all cases where such *Temporary Work* is of such a nature that professional engineering skill is required to produce safe and satisfactory results.
- 3.3.3 Notwithstanding the provisions of GC 3.1 -CONTROL OF THE WORK, paragraph 3.3.1, and paragraph 3.3.2 or provisions to the contrary elsewhere in the *Contract Documents* where such *Contract Documents* include designs for *Temporary Work* or specify a method of construction in whole or in part, such designs or methods of construction shall be considered to be part of the design of the *Work* and the *Contractor* shall not be held responsible for that part of the design or the specified method of construction. The *Contractor* shall, however, be responsible for the execution of such design or specified method of construction in the same manner as for the execution of the *Work*.

GC 3.4 DOCUMENT REVIEW

3.4.1 The Contractor shall review the Contract Documents and shall report promptly to the Consultant any error, inconsistency, or omission the Contractor may discover. Such review by the Contractor shall be to the best of the Contractor's knowledge, information, and belief and in making such review the Contractor does not assume any responsibility to the Owner or the Consultant for the accuracy of the review. The Contractor shall not be liable for damage or costs resulting from such errors, inconsistencies, or omissions in the Contract Documents, which the Contractor did not discover. If the Contractor does discover any error, inconsistency, or omission in the Contract Documents, the Contractor shall not proceed with the work affected until the Contractor has received corrected or missing information from the Consultant.

GC 3.5 CONSTRUCTION SCHEDULE

- 3.5.1 The *Contractor* shall:
 - .1 prepare and submit to the *Owner* and the *Consultant* prior to the first application for payment, a construction schedule that indicates the timing of the major activities of the *Work* and provides sufficient detail of the critical events and their inter-relationship to demonstrate the *Work* will be performed in conformity with the *Contract Time*:

- .2 monitor the progress of the *Work* relative to the construction schedule and update the schedule on a monthly basis or as stipulated by the *Contract Documents*; and
- advise the *Consultant* of any revisions required to the schedule as the result of extensions of the *Contract Time* as provided in Part 6 of the General Conditions CHANGES IN THE WORK.

GC 3.6 SUPERVISION

- 3.6.1 The *Contractor* shall provide all necessary supervision and appoint a competent representative who shall be in attendance at the *Place of the Work* while the *Work* is being performed. The appointed representative shall not be changed except for valid reason.
- 3.6.2 The appointed representative shall represent the *Contractor* at the *Place of the Work* and notices and instructions given to the appointed representative by the *Consultant* shall be held to have been received by the *Contractor*.

GC 3.7 LAYOUT OF THE WORK

- 3.7.1 The *Owner* shall, in consultation with the Contractor, establish reference points for construction which are necessary for the *Contractor* to proceed with the *Work*.
- 3.7.2 The *Contractor* shall be responsible for laying out the *Work*, shall preserve and protect the established reference points, and shall not change or relocate the established reference points without the approval of the *Consultant*.
- 3.7.3 The *Contractor* shall advise the *Consultant* whenever any established reference point is lost, destroyed, damaged, or requires relocation as a result of the *Contractor*'s operations. The cost to reestablish any reference point that is lost, destroyed, damaged, or requires relocation as a result of the *Contractor*'s operations, shall be at the *Contractor*'s expense.

GC 3.8 SUBCONTRACTORS AND SUPPLIERS

- 3.8.1 The *Contractor* shall preserve and protect the rights of the parties under the *Contract* with respect to work to be performed under subcontract, and shall:
 - .1 enter into contracts or written agreements with *Subcontractors* and *Suppliers* to require them to perform their work as provided in the *Contract Documents*;
 - .2 incorporate the terms and conditions of the *Contract Documents* into all contracts or written agreements with *Subcontractors* and *Suppliers*; and
 - .3 be as fully responsible to the *Owner* for acts and omissions of *Subcontractors*, *Suppliers*, and of persons <u>directly</u> or <u>indirectly</u> employed by them as for acts and omissions of persons directly employed by the *Contractor*.
- 3.8.2 The Contractor shall indicate in writing, at the request of the Owner, those Subcontractors or Suppliers whose bids have been received by the Contractor which the Contractor would be prepared to accept for the performance of a portion of the Work. Should the Owner not object before signing the Contract, the Contractor shall employ those Subcontractors or Suppliers so identified by the Contractor in writing for the performance of that portion of the Work to which their bid applies.
- 3.8.3 The *Owner* may, for reasonable cause, at any time before the *Owner* has signed the *Contract*, object to the use of a proposed *Subcontractor* or *Supplier* and require the *Contractor* to employ one of the other subcontract bidders.
- 3.8.4 If the *Owner* requires the *Contractor* to change a proposed *Subcontractor* or *Supplier*, the *Contract Price* and *Contract Time* shall be adjusted by the differences occasioned by such required change.
- 3.8.5 The *Contractor* shall not be required to employ as a *Subcontractor* or *Supplier*, a person or firm to which the *Contractor* may reasonably object.
- 3.8.6 The *Owner*, through the *Consultant*, may provide to a *Subcontractor* or *Supplier* information as to the percentage of the *Subcontractor*'s or *Supplier*'s work which has been certified for payment.

GC 3.9 LABOUR AND PRODUCTS

- 3.9.1 The *Contractor* shall provide and pay for labour, *Products*, tools, *Construction Equipment*, water, heat, light, power, transportation, and other facilities and services necessary for the performance of the *Work* in accordance with the *Contract*.
- 3.9.2 *Products* provided shall be new. *Products* which are not specified shall be of a quality consistent with those specified and their use acceptable to the *Consultant*.
- 3.9.3 The *Contractor* shall maintain good order and discipline among the *Contractor*'s employees engaged on the *Work* and shall not employ on the *Work* anyone not skilled in the tasks assigned.

GC 3.10 DOCUMENTS AT THE SITE

3.10.1 The *Contractor* shall keep one copy of current *Contract Documents*, submittals, reports, and records of meetings at the *Place of the Work*, in good order and available to the *Owner* and the *Consultant*.

GC 3.11 SHOP DRAWINGS

- 3.11.1 The Contractor shall provide Shop Drawings as required in the Contract Documents.
- 3.11.2 The *Contractor* shall review all *Shop Drawings* prior to submission to the *Consultant*. The *Contractor* represents by this review that:
 - the *Contractor* has determined and verified all field measurements, field construction conditions, materials, *Product* requirements, catalogue numbers, and similar data or will do so; and
 - the Contractor has checked and co-ordinated each Shop Drawing with the requirements of the Contract Documents.
- 3.11.3 The *Contractor* shall confirm the review of each shop drawing by stamp, date, and signature of the person responsible for the review. At the time of submission the *Contractor* shall notify the *Consultant* in writing of any deviations in the *Shop Drawings* from the requirements of the *Contract Documents*.
- 3.11.4 The Contractor shall submit Shop Drawings to the Consultant to review in orderly sequence and sufficiently in advance so as to cause no delay in the Work or in the work of other contractors. Upon request of the Contractor or the Consultant, they jointly shall prepare a schedule of the dates for submission and return of Shop Drawings. Shop Drawings which require approval of any legally constituted authority having jurisdiction shall be submitted to such authority by the Contractor for approval.
- 3.11.5 The Contractor shall submit Shop Drawings in the form specified or as the Consultant may direct. The Consultant will review and return Shop Drawings in accordance with the schedule agreed upon, or otherwise with reasonable promptness so as to cause no delay. The Consultant's review is for conformity to the design concept and for general arrangement only. The Consultant's review shall not relieve the Contractor of responsibility for errors or omissions in the Shop Drawings or for meeting all requirements of the Contract Documents unless the Consultant expressly notes the acceptance of a deviation on the Shop Drawings.
- 3.11.6 Upon the *Consultant*'s request, the *Contractor* shall revise and resubmit *Shop Drawings* which the *Consultant* rejects as inconsistent with the *Contract Documents* unless otherwise directed by the *Consultant*. The *Contractor* shall notify the *Consultant* in writing of any revisions to the resubmission other than those requested by the *Consultant*.

GC 3.12 USE OF THE WORK

- 3.12.1 The Contractor shall confine Construction Equipment, Temporary Work, storage of Products, waste products and debris, and operations of employees to limits indicated by laws, ordinances, permits, or the Contract Documents and shall not unreasonably encumber the Place of Work with Products.
- 3.12.2 The *Contractor* shall not load or permit to be loaded any part of the *Work* with a weight or force that will endanger the safety of the *Work*.

GC 3.13 CUTTING AND REMEDIAL WORK

- 3.13.1 The *Contractor* shall do the cutting and remedial work required to make the several parts of the *Work* come together properly.
- 3.13.2 The Contractor shall co-ordinate the Work to ensure that this requirement is kept to a minimum.
- 3.13.3 Should the *Owner*, the *Consultant*, other contractors or anyone employed by them be responsible for ill-timed work necessitating cutting or remedial work to be performed, the cost of such cutting or remedial work shall be valued as provided in GC 6.1 CHANGES, GC 6.2 CHANGE ORDER, and GC 6.3 CHANGE DIRECTIVE.
- 3.13.4 Cutting and remedial work shall be performed by specialists familiar with the *Products* affected and shall be performed in a manner to neither damage nor endanger the *Work*.

GC 3.14 CLEANUP

- 3.14.1 The *Contractor* shall maintain the *Work* in a safe and tidy condition and free from the accumulation of waste products and debris, other than that caused by the *Owner*, other contractors or their employees.
- 3.14.2 Before applying for Substantial Performance of the Work as provided in GC 5.7 SUBSTANTIAL PERFORMANCE OF THE WORK, the Contractor shall remove waste products and debris, other than that resulting from the work of the Owner, other contractors or their employees, and shall leave the Work clean and suitable for use or occupancy by the Owner. The Contractor shall remove products, tools, Construction Equipment and Temporary Work not required for the performance of the remaining work.
- 3.14.3 Prior to application for the final certificate for payment, the *Contractor* shall remove any remaining products, tools, *Construction Equipment, Temporary Work*, and waste products and debris, other than those resulting from the work of the *Owner*, other contractors or their employees.

PART 4 ALLOWANCES

GC 4.1 CASH ALLOWANCES

- 4.1.1 The *Contract Price* includes the cash allowances, if any, stated in the *Contract Documents*. The scope of work or costs included in such cash allowances shall be as described in the *Contract Documents*.
- 4.1.2 The *Contract Price*, and not the cash allowances, includes the *Contractor*'s overhead and profit in connection with such cash allowances.
- 4.1.3 Expenditures under cash allowances shall be authorized by the *Owner* through the *Consultant*.
- 4.1.4 Where costs under any cash allowance exceed the amount of the allowance, the *Contractor* shall be compensated for the excess incurred and substantiated plus an amount for overhead and profit on the excess as set out in the *Contract Documents*. Where costs under any cash allowance are less than the amount of the allowance, the *Owner* shall be credited for the unexpended portion of the cash allowance, but not for the *Contractor*'s overhead and profit on such amount. Multiple cash allowances shall not be combined for the purpose of calculating the foregoing.
- 4.1.5 The *Contract Price* shall be adjusted by *Change Order* to provide for any difference between the actual cost and each cash allowance.
- 4.1.6 The value of the work performed under a cash allowance is eligible to be included in progress payments.
- 4.1.7 The *Contractor* and the *Consultant* shall jointly prepare a schedule that shows when the *Consultant* and *Owner* must authorize ordering of items called for under cash allowances to avoid delaying the progress of the *Work*.

GC 4.2 CONTINGENCY ALLOWANCE

- 4.2.1 The Contract Price includes the contingency allowance, if any, stated in the Contract Documents.
- 4.2.2 Expenditures under the contingency allowance shall be authorized and valued as provided in GC 6.1 CHANGES, GC 6.2 CHANGE ORDER, and GC 6.3 CHANGE DIRECTIVE.

CCDC 18 – 2001

4.2.3 The *Contract Price* shall be adjusted by *Change Order* to provide for any difference between the expenditures authorized under paragraph 4.2.2 and the contingency allowance.

PART 5 PAYMENT

GC 5.1 FINANCING INFORMATION REQUIRED OF THE OWNER

- 5.1.1 The *Owner* shall, at the request of the *Contractor*, before signing the *Contract*, and promptly from time to time thereafter, furnish to the *Contractor* reasonable evidence that financial arrangements have been made to fulfill the *Owner*'s obligations under the *Contract*.
- 5.1.2 The *Owner* shall notify the *Contractor* in writing of any material change in the *Owner*'s financial arrangements during performance of the *Contract*.

GC 5.2 BASIS OF PAYMENT FOR UNIT PRICE WORK

- 5.2.1 Payment for *Unit Price* work shall be based on the *Unit Prices* in the *Contract*.
- 5.2.2 The *Contractor* shall measure the *Work* and the *Consultant* will verify such measurements to determine payment to the *Contractor* in accordance with the measurement provisions of the *Contract Documents*.

GC 5.3 BASIS OF PAYMENT FOR LUMP SUM WORK

5.3.1 Payment for lump sum work shall be based on the stipulated price(s) in the *Contract*.

GC 5.4 BASIS OF PAYMENT FOR COST PLUS WORK

- 5.4.1 Payment for cost plus work shall be based on the cost of such work, as provided in paragraph 5.4.2, plus a fee calculated as a percentage of the cost of such work, for the *Contractor*'s overhead and profit. The percentage amount shall be as provided in the *Contract Documents* but shall not be applied to the cost of *Construction Equipment* when such cost is based on rates which already include the *Contractor*'s overhead and profit.
- 5.4.2 The cost of cost plus work shall be at rates prevailing in the locality of the *Place of the Work* and shall include the following cost elements as applicable to such work:
 - .1 wages and benefits paid for labour in the direct employ of the *Contractor* under applicable collective bargaining agreements, or under a salary or wage schedule agreed upon by the *Owner* and *Contractor*;
 - .2 salaries, wages, and benefits of the *Contractor*'s personnel, when stationed at the field office, in whatever capacity employed; or personnel at shops or on the road, engaged in expediting the production or transportation of materials or equipment;
 - .3 contributions, assessments, or taxes incurred for such items as employment insurance, provincial or territorial health insurance, workers' compensation, and Canada or Quebec Pension Plan, insofar as such cost is based on wages, salaries, or other remuneration paid to employees of the *Contractor* and included in the cost of the *Work* as provided in paragraphs 5.4.2.1 and 5.4.2.2:
 - 4 travel and subsistence expenses of the Contractor's personnel described in paragraphs 5.4.2.1 and 5.4.2.2;
 - .5 the cost of all *Products* including cost of transportation thereof;
 - the cost of materials, supplies, *Construction Equipment*, *Temporary Work*, and hand tools not owned by the workers, including transportation, and maintenance thereof, which are consumed in the performance of the *Work*; and cost less salvage value on such items used but not consumed, which remain the property of the *Contractor*;
 - .7 the cost of all tools and *Construction Equipment*, exclusive of hand tools used in the performance of the *Work*, whether rented from or provided by the *Contractor* or others, including installation, minor repairs and replacements, dismantling, removal, transportation and delivery cost thereof;
 - .8 deposits lost;
 - .9 the amounts of all subcontracts;
 - .10 the cost of quality assurance such as independent inspection and testing services;
 - .11 charges levied by authorities having jurisdiction at the *Place of the Work*;

- .12 royalties, patent license fees, and damages for infringement of patents and cost of defending suits therefor subject always to the *Contractor*'s obligations to indemnify the *Owner* as provided in paragraph 10.3.1 of GC 10.3 PATENT FEES;
- .13 any adjustment in premiums for all bonds and insurance which the *Contractor* is required, by the *Contract Documents*, to purchase and maintain;
- .14 any adjustment in taxes and duties for which the Contractor is liable;
- .15 charges for long distance telephone and facsimile communications, courier services, expressage, and petty items incurred in relation to the performance of the *Work*;
- .16 the cost of removal and disposal of waste products and debris; and
- .17 cost incurred due to emergencies affecting the safety of persons or property.
- 5.4.3 The *Contractor* shall obtain the *Owner's* approval prior to subcontracting or entering into other agreements for cost plus work.
- 5.4.4 The *Consultant* may refuse to certify payment for all or part of the cost of any item under any cost element, where the item in question was unsuitable, unnecessary or the cost was otherwise improperly incurred in the performance of the Work.
- 5.4.5 The *Contractor* shall keep full and detailed accounts and records necessary for the documentation of the cost of cost plus work and shall provide the *Consultant* with copies thereof when requested.
- 5.4.6 The *Owner* shall be afforded reasonable access to all of the *Contractor*'s books, records, correspondence, instructions, drawings, receipts, vouchers, and memoranda related to the cost of cost plus work, and for this purpose the *Contractor* shall preserve such records for a period of one year from the date of *Substantial Performance of the Work*.

GC 5.5 APPLICATIONS FOR PROGRESS PAYMENT

- 5.5.1 Applications for payment on account as provided in Article A-5 of the Agreement PAYMENT may be made monthly as the *Work* progresses.
- 5.5.2 Applications for payment shall be dated the last day of the agreed monthly payment period and the amount claimed shall be for the value, proportionate to the amount of the *Contract*, of work performed and *Products* delivered to the *Place of the Work* at that date.
- 5.5.3 Where the basis of payment of the *Contract Price* is *Unit Prices*, applications for payment shall include quantity measurements and any other data requested by the *Consultant* to assist the *Consultant* in evaluating the application and verifying quantity measurements.
- 5.5.4 Where the basis of payment of the *Contract Price* is a lump sum stipulated price:
 - .1 the *Contractor* shall submit to the *Consultant*, at least 10 *Working Days* before the first application for payment, a schedule of values for the parts of the *Work*, aggregating the total amount of the *Contract Price*, so as to facilitate evaluation of applications for payment;
 - .2 the schedule of values shall be made out in such form and supported by such evidence as the *Consultant* may reasonably direct and when accepted by the *Consultant*, shall be used as the basis for applications for payment, unless it is found to be in error; and
 - .3 the Contractor shall include a statement based on the schedule of values with each application for payment.
- 5.5.5 Where the basis of payment for a portion of the *Work* is cost plus, applications for payment shall be based on the cost of the work performed plus the amount of the fee earned, in accordance with GC 5.4 BASIS OF PAYMENT FOR COST PLUS WORK.
- 5.5.6 Applications for payment for *Products* delivered to the *Place of the Work* but not yet incorporated into the *Work* shall be supported by such evidence as the *Consultant* may reasonably require to establish the value and delivery of the *Products*.

GC 5.6 PROGRESS PAYMENT

- 5.6.1 The Consultant will issue to the Owner, no later than 5 Working Days after the receipt of an application for payment from the Contractor submitted in accordance with GC 5.2 APPLICATIONS FOR PROGRESS PAYMENT, a certificate for payment in the amount applied for or in such other amount as the Consultant determines to be properly due. If the Consultant amends the application, the Consultant will promptly notify the Contractor in writing giving reasons for the amendment.
- 5.6.2 The Owner shall make payment to the Contractor on account as provided in Article A-5 of the Agreement PAYMENT no later than 5 Working Days after the date of a certificate for payment issued by the Consultant.
- 5.6.3 Where the basis of payment of the *Contract Price* is *Unit Prices*, quantities for progress payments shall be considered approximate until final verification of quantities by the *Consultant*. A certificate for progress payment shall not be construed as the *Consultant's* final verification of quantities. Final verification of quantities will be made after all work of an item is completed.

GC 5.7 SUBSTANTIAL PERFORMANCE OF THE WORK

- 5.7.1 When the *Contractor* considers that the *Work* is substantially performed, or if permitted by the lien legislation applicable to the *Place of the Work* a designated portion thereof which the *Owner* agrees to accept separately is substantially performed, the *Contractor* shall prepare and submit to the *Consultant* a comprehensive list of items to be completed or corrected and apply for a review by the *Consultant* to establish *Substantial Performance of the Work* or substantial performance of the designated portion of the *Work*. Failure to include an item on the list does not alter the responsibility of the *Contractor* to complete the *Contract*.
- 5.7.2 No later than 15 *Working Days* after the receipt of the *Contractor*'s list and application, the *Consultant* will review the *Work* to verify the validity of the application and notify the *Contractor* whether the *Work* or the designated portion of the *Work* is substantially performed.
- 5.7.3 The Consultant will state the date of Substantial Performance of the Work or designated portion of the Work in a certificate.
- 5.7.4 Immediately following the issuance of the certificate of Substantial Performance of the Work, the Contractor, in consultation with the Consultant, shall establish a reasonable date for finishing the Work.

GC 5.8 PAYMENT OF HOLDBACK UPON SUBSTANTIAL PERFORMANCE OF THE WORK

- 5.8.1 After the issuance of the certificate of Substantial Performance of the Work, the Contractor shall:
 - .1 submit an application for payment of the holdback amount,
 - 2 submit a sworn or affirmed statement that all accounts for labour, subcontracts, *Products*, *Construction Equipment*, and other indebtedness which may have been incurred by the *Contractor* in the *Substantial Performance of the Work* and for which the *Owner* might in any way be held responsible have been paid in full, except for amounts properly retained as a holdback or as an identified amount in dispute.
- After the receipt of an application for payment from the *Contractor* and the sworn or affirmed statement as provided in paragraph 5.8.1, the *Consultant* will issue a certificate for payment of the holdback amount.
- 5.8.3 Where the holdback amount required by the applicable lien legislation has not been placed in a separate holdback account, the *Owner* shall, 5 *Working Days* prior to the expiry of the holdback period stipulated in the lien legislation applicable to the *Place of the Work*, place the holdback amount in a bank account in the joint names of the *Owner* and the *Contractor*.
- 5.8.4 In the common law jurisdictions, the holdback amount authorized by the certificate for payment of the holdback amount is due and payable on the day following the expiration of the holdback period stipulated in the lien legislation applicable to the *Place of the Work*. Where lien legislation does not exist or apply, the holdback amount shall be due and payable in accordance with other legislation, industry practice, or provisions which may be agreed to between the parties. The *Owner* may retain out of the holdback amount any sums required by law to satisfy any liens against the *Work* or, if permitted by the lien legislation applicable to the *Place of the Work*, other third party monetary claims against the *Contractor* which are enforceable against the *Owner*.

5.8.5 In the Province of Quebec, the holdback amount authorized by the certificate for payment of the holdback amount is due and payable no later than 30 days after the issuance of the certificate. The *Owner* may retain out of the holdback amount any sums required to satisfy any legal hypothecs that have been taken, or could be taken, against the *Work* or other third party monetary claims against the *Contractor* which are enforceable against the *Owner*.

GC 5.9 PROGRESSIVE RELEASE OF HOLDBACK

- 5.9.1 In the common law jurisdictions, where legislation permits and where, upon application by the *Contractor*, the *Consultant* has certified that the work of a *Subcontractor* or *Supplier* has been performed prior to *Substantial Performance of the Work*, the *Owner* shall pay the *Contractor* the holdback amount retained for such subcontract work, or the *Products* supplied by such *Supplier*, on the first *Working Day* following the expiration of the holdback period for such work stipulated in the lien legislation applicable to the *Place of the Work*.
- 5.9.2 In the Province of Quebec, where, upon application by the Contractor, the Consultant has certified that the work of a Subcontractor or Supplier has been performed prior to Substantial Performance of the Work, the Owner shall pay the Contractor the holdback amount retained for such subcontract work, or the Products supplied by such Supplier, no later than 30 days after such certification by the Consultant. The Owner may retain out of the holdback amount any sums required to satisfy any legal hypothecs that have been taken, or could be taken, against the Work or other third party monetary claims against the Contractor which are enforceable against the Owner.
- 5.9.2 Notwithstanding the provisions of the preceding paragraph, and notwithstanding the wording of such certificates, the *Contractor* shall ensure that such subcontract work or *Products* is protected pending the issuance of a final certificate for payment and be responsible for the correction of defects or work not performed regardless of whether or not such was apparent when such certificates were issued.

GC 5.10 FINAL PAYMENT

- 5.10.1 When the *Contractor* considers that the *Work* is completed, the *Contractor* shall submit an application for final payment.
- 5.10.2 The *Consultant* will, no later than 15 *Working Days* after the receipt of an application from the *Contractor* for final payment, review the *Work* to verify the validity of the application and notify the *Contractor* that the application is valid or give reasons why it is not valid.
- 5.10.3 When the *Consultant* finds the *Contractor*'s application for final payment valid, the *Consultant* will promptly issue a final certificate for payment.
- 5.10.4 Subject to the provision of paragraph 10.4.1 of GC 10.4 WORKERS' COMPENSATION, and any lien legislation applicable to the *Place of the Work*, the *Owner* shall, no later than 5 *Working Days* after the issuance of a final certificate for payment, pay the *Contractor* as provided in Article A-5 of the Agreement PAYMENT.

GC 5.11 WITHHOLDING OF PAYMENT

5.11.1 If because of climatic or other conditions reasonably beyond the control of the *Contractor*, there are items of work that cannot be performed, payment in full for that portion of the *Work* which has been performed as certified by the *Consultant* shall not be withheld or delayed by the *Owner* on account thereof, but the *Owner* may withhold, until the remaining portion of the *Work* is finished, only such an amount that the *Consultant* determines is sufficient and reasonable to cover the cost of performing such remaining work.

GC 5.12 NON-CONFORMING WORK

5.12.1 No payment by the *Owner* under the *Contract* nor partial or entire use or occupancy of the *Work* by the *Owner* shall constitute an acceptance of any portion of the *Work* or *Products* which are not in accordance with the requirements of the *Contract Documents*.

PART 6 CHANGES

GC 6.1 CHANGES

- 6.1.1 The *Owner*, through the *Consultant*, without invalidating the *Contract*, may make:
 - .1 changes in the *Work* consisting of additions, deletions, or other revisions to the *Work* by *Change Order* or *Change Directive*, and
 - .2 changes to the Contract Time for the Work, or any part thereof, by Change Order.
- 6.1.2 The Contractor shall not perform a change in the Work without a Change Order or a Change Directive.

GC 6.2 CHANGE ORDER

- 6.2.1 When a change in the *Work* or the *Contract Time* is proposed or required, the *Consultant* will provide notice in writing to the Contractor describing the proposed change. The *Contractor* shall present, in a form acceptable to the *Consultant*, a method of adjustment or an amount of adjustment of the *Contract Price*, if any, and the adjustment in the *Contract Time*, if any, for the proposed change.
- 6.2.2 The method of adjustment of the *Contract Price* presented by the *Contractor* may be:
 - .1 <u>Unit Prices listed in the Schedule of Prices that are applicable to the change in the Work</u> or, if *Unit Prices* listed in the Schedule of Prices are not directly applicable, by unit prices deduced or extrapolated from such *Unit Prices*,
 - .2 a lump sum or unit price quotation, or
 - .3 the cost plus method as provided in GC 5.4 BASIS OF PAYMENT FOR COST PLUS WORK.
- 6.2.3 When the *Owner* and *Contractor* agree to the adjustments in the *Contract Price* and *Contract Time* or to the method to be used to determine the adjustments, such agreement shall be effective immediately and shall be recorded in a *Change Order*, signed by *Owner* and *Contractor*. The value of the work performed as the result of a *Change Order* shall be included in applications for progress payment.

GC 6.3 CHANGE DIRECTIVE

- 6.3.1 If the Owner requires the Contractor to proceed with a change in the Work prior to the Owner and the Contractor agreeing upon the adjustment in Contract Price and Contract Time, the Owner, through the Consultant, shall issue a Change Directive.
- 6.3.2 A Change Directive shall only be used by the Owner to direct a change in the Work that is within the general scope of the Contract Documents.
- 6.3.3 Upon receipt of a Change Directive, the Contractor shall proceed promptly with the change in the Work.
- 6.3.4 The adjustment in the Contract Price for a change in the Work carried out by way of a Change Directive shall be on the basis of the Contractor's actual expenditures and savings attributable to the change. If a change in the Work results in expenditures only, the change in the Work shall be valued as cost plus work in accordance with GC 5.4 BASIS OF PAYMENT FOR COST PLUS WORK.
- 6.3.5 If a change in the *Work* results in savings only, the amount of the credit shall be the actual cost savings to the *Contractor*, without deduction for overhead or profit.
- 6.3.6 If a change in the *Work* results in both expenditures and savings, the change in the *Work* shall be valued as specified in GC 6.3.4 and GC 6.3.5, except that overhead and profit on the cost plus work shall be payable only on the net increase, if any, with respect to that change in the Work.
- 6.3.7 Pending determination of the final amount of a *Change Directive*, the undisputed value of the work performed as the result of a *Change Directive* is eligible to be included in progress payments.
- 6.3.8 If the *Owner* and *Contractor* do not agree on the proposed adjustment in the *Contract Time* or the method of determining it, the adjustment shall be referred to the *Consultant* for determination.

6.3.9 If at any time after the start of the work directed by a *Change Directive*, the *Owner* and the *Contractor* reach agreement on the adjustment to the *Contract Price* and to the *Contract Time*, this agreement shall be recorded in a *Change Order* signed by *Owner* and *Contractor*.

GC 6.4 CONCEALED OR UNKNOWN CONDITIONS

- 6.4.1 If the Owner or the Contractor discover conditions at the Place of the Work which are:
 - .1 subsurface or otherwise concealed physical conditions which existed before the commencement of the *Work* which differ materially from those indicated in the *Contract Documents*; or
 - .2 physical conditions, other than conditions due to weather, that are of a nature which differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the *Contract Documents*;

then the observing party shall notify the other party in writing before conditions are disturbed and in no event later than 5 *Working Days* after first observance of the conditions.

- 6.4.2 The *Consultant* will promptly investigate such conditions and make a finding. If the finding is that the conditions differ materially and this would cause an increase or decrease in the *Contractor*'s cost or time to perform the *Work*, the *Consultant*, with the *Owner*'s approval, will issue appropriate instructions for a change in the *Work* as provided in GC 6.2 CHANGE ORDER or GC 6.3 CHANGE DIRECTIVE.
- 6.4.3 If the Consultant finds that the conditions at the Place of the Work are not materially different or that no change in the Contract Price or the Contract Time is justified, the Consultant will report the reasons for this finding to the Owner and the Contractor in writing.
- 6.4.4 The *Contractor* shall not be entitled to an adjustment in the *Contract Price* or the *Contract Time* if such conditions were reasonably apparent prior to the time of bid closing.

GC 6.5 DELAYS

- 6.5.1 If the *Contractor* is delayed in the performance of the *Work* by an action or omission of the *Owner*, *Consultant*, or anyone employed or engaged by them directly or indirectly, contrary to the provisions of the *Contract Documents*, then the *Contract Time* shall be extended for such reasonable time as the *Consultant* may recommend in consultation with the *Contractor*. The *Contractor* shall be reimbursed by the *Owner* for reasonable costs incurred by the *Contractor* as the result of such delay.
- 6.5.2 If the *Contractor* is delayed in the performance of the *Work* by a stop work order issued by a court or other public authority and providing that such order was not issued as the result of an act or fault of the *Contractor* or any person employed or engaged by the *Contractor* directly or indirectly, then the *Contract Time* shall be extended for such reasonable time as the *Consultant* may recommend in consultation with the *Contractor*. The *Contractor* shall be reimbursed by the *Owner* for reasonable costs incurred by the *Contractor* as the result of such delay.
- 6.5.3 If the *Contractor* is delayed in the performance of the *Work* by
 - labour disputes, strikes, lock-outs (including lock-outs decreed or recommended for its members by a recognized contractors' association, of which the *Contractor* is a member or to which the *Contractor* is otherwise bound),
 - .2 fire, unusual delay by common carriers or unavoidable casualties.
 - .3 abnormally adverse weather conditions, or
 - .4 any other cause beyond the *Contractor*'s control, other than one resulting from a default of or breach of *Contract* by the *Contractor*,

then the *Contract Time* shall be extended for such reasonable time as the *Consultant* may recommend in consultation with the *Contractor*. The extension of time shall not be less than the time lost as the result of the event causing the delay, unless the *Contractor* agrees to a shorter extension. The *Contractor* shall not be entitled to payment for costs incurred by such delays unless such delays result from actions by the *Owner*.

6.5.4 No extension shall be made for delay unless notice in writing of the cause of delay is given to the *Consultant* not later than 10 *Working Days* after the commencement of delay, providing however, that in the case of a continuing cause of delay only one notice shall be necessary.

6.5.5 If no schedule is made under paragraph 2.2.9 of GC 2.2 - ROLE OF THE CONSULTANT, then no request for extension shall be made because of failure of the *Consultant* to furnish instructions until 10 *Working Days* after demand for such instructions has been made and not then, unless the request is reasonable.

GC6.6 CLAIMS

- 6.6.1 If the *Contractor* intends to make a claim for additional payment, or if the *Owner* intends to make a claim for a credit to the *Contract Price* or for damages of any kind, the party that intends to make the claim shall give notice in writing of intent to claim to the other party and to the *Consultant* as soon as practicable, but no later than 10 *Working Days* after commencement of the event or series of events giving rise to the claim. Failure to provide such notification shall invalidate the claim.
- 6.6.2 Upon commencement of the event or series of events giving rise to the claim, the party intending to make a claim shall:
 - .1 take all reasonable measures to mitigate any loss or damage which may be incurred as a result of such event or series of events, and
 - .2 keep such records as may be necessary to support the claim.
- 6.6.3 Within 30 Working Days after commencement of the event or series of events giving rise to the claim, or such other reasonable time as may be agreed by the Consultant, the party making the claim shall submit to the Consultant a detailed account of the amount claimed and the grounds upon which the claim is based.
- 6.6.4 Where the event or series of events giving rise to the claim has a continuing effect, the detailed account submitted under paragraph 6.6.3 shall be considered to be an interim account and the party making the claim shall, at such intervals as the *Consultant* may reasonably require, submit further interim accounts giving the accumulated amount of the claim and any further grounds upon which it is based. The party making the claim shall submit a final account with 30 *Working Days* after the end of the effects resulting from the event or series of events.
- 6.6.5 The *Consultant's* findings, with respect to a claim made by either party, will be given by notice in writing to the other party within 30 *Working Days* after receipt thereof by the *Consultant*, or such other time period as may be agreed by the parties. If such finding is not acceptable to both parties, the claim shall be settled in accordance with Part 8 of the General Conditions DISPUTE RESOLUTION.

GC 6.7 QUANTITY VARIATIONS

- 6.7.1 The Owner or the Contractor may request an adjustment to a Unit Price contained in a Schedule of Prices included in the Contract provided that the actual quantity of the item in the Schedule of Prices exceeds or falls short of the estimated quantity by more that 15%.
- 6.7.2 Where the actual quantity exceeds the estimated quantity by more than 15%, a *Unit Price* adjusted pursuant to paragraph 6.7.1 shall apply only to the quantity that exceeds 115% of the estimated quantity.
- 6.7.3 Where the actual quantity falls short of the estimated quantity by more than 15%, a *Unit Price* adjusted pursuant to paragraph 6.7.1 shall not exceed the *Unit Price* that would cause the extended amount to equal the original extended amount derived from the original *Unit Price* and estimated quantity.
- 6.7.4 If either party requests adjustment of a *Unit Price*, both parties shall make all reasonable efforts to agree on a revised *Unit Price*. The agreed revised *Unit Price* shall be recorded in a Change Order.
- 6.7.5 If agreement on a revised *Unit Price* is not reached, the matter shall be subject to final determination in accordance with Part 8 DISPUTE RESOLUTION. Pending determination of the revised *Unit Price*, payment for the *Work* performed shall be included in progress payments based on the unrevised *Unit Price*.

PART 7 DEFAULT NOTICE

GC 7.1 OWNER'S RIGHT TO PERFORM THE WORK, STOP THE WORK, OR TERMINATE THE CONTRACT

- 7.1.1 If the *Contractor* is adjudged bankrupt, or makes a general assignment for the benefit of creditors because of the *Contractor*'s insolvency, or if a receiver is appointed because of the *Contractor*'s insolvency, the *Owner* may, without prejudice to any other right or remedy the *Owner* may have, by giving the *Contractor* or receiver or trustee in bankruptcy notice in writing, terminate the *Contract*.
- 7.1.2 If the Contractor neglects to prosecute the Work properly or otherwise fails to comply with the requirements of the Contract to a substantial degree and if the Consultant has given a written statement to the Owner and Contractor that sufficient cause exists to justify such action, the Owner may, without prejudice to any other right or remedy the Owner may have, notify the Contractor in writing that the Contractor is in default of the Contractor's contractual obligations and instruct the Contractor to correct the default in the 5 Working Days immediately following the receipt of such notice.
- 7.1.3 If the default cannot be corrected in the 5 Working Days specified, the Contractor shall be in compliance with the Owner's instructions if the Contractor:
 - .1 commences the correction of the default within the specified time, and
 - 2 provides the Owner with an acceptable schedule for such correction, and
 - .3 corrects the default in accordance with such schedule.
- 7.1.4 If the *Contractor* fails to correct the default in the time specified or subsequently agreed upon, without prejudice to any other right or remedy the *Owner* may have, the *Owner* may:
 - .1 correct such default and deduct the cost thereof from any payment then or thereafter due the *Contractor* provided the *Consultant* has certified such cost to the *Owner* and the *Contractor*, or
 - .2 terminate the Contractor's right to continue with the Work in whole or in part or terminate the Contract.
- 7.1.5 If the *Owner* terminates the *Contractor*'s right to continue with the *Work* as provided in paragraphs 7.1.1 and 7.1.4, the *Owner* shall be entitled to:
 - .1 take possession of the *Work* and *Products* delivered to the *Place of the Work*, subject to the rights of third parties, and finish the *Work* by whatever method the *Owner* may consider expedient, but without undue delay or expense, and
 - .2 withhold further payment to the Contractor until a final certificate for payment is issued, and
 - .3 charge the *Contractor* the amount by which the full cost of finishing the *Work* as certified by the *Consultant*, including compensation to the *Consultant* for the *Consultant*'s additional services and a reasonable allowance as determined by the *Consultant* to cover the cost of corrections to work performed by the *Contractor* that may be required under GC 12.3 WARRANTY, exceeds the unpaid balance of the *Contract Price*; however, if such cost of finishing the *Work* is less than the unpaid balance of the *Contract Price*, the *Owner* shall pay the *Contractor* the difference, and
 - .4 on expiry of the warranty period, charge the *Contractor* the amount by which the cost of corrections to the *Contractor*'s work under GC 12.3 WARRANTY exceeds the allowance provided for such corrections, or if the cost of such corrections is less than the allowance, pay the *Contractor* the difference.
- 7.1.6 The *Contractor*'s obligation under the *Contract* as to quality, correction, and warranty of the work performed by the *Contractor* up to the time of termination shall continue in force after such termination.

GC 7.2 CONTRACTOR'S RIGHT TO STOP THE WORK OR TERMINATE THE CONTRACT

- 7.2.1 If the *Owner* is adjudged bankrupt, or makes a general assignment for the benefit of creditors because of the *Owner*'s insolvency, or if a receiver is appointed because of the *Owner*'s insolvency, the *Contractor* may, without prejudice to any other right or remedy the *Contractor* may have, by giving the *Owner* or receiver or trustee in bankruptcy notice in writing, terminate the *Contract*.
- 7.2.2 If the *Work* is stopped or otherwise delayed for a period of 20 *Working Days* or more under an order of a court or other public authority and providing that such order was not issued as the result of an act or fault of the *Contractor* or of anyone directly or indirectly employed or engaged by the *Contractor*, the *Contractor* may, without prejudice to any other right or remedy the *Contractor* may have, by giving the *Owner* notice in writing, terminate the *Contract*.

- 7.2.3 The *Contractor* may notify the *Owner* in writing, with a copy to the *Consultant*, that the *Owner* is in default of the *Owner*'s contractual obligations if:
 - .1 the *Owner* fails to furnish, when so requested by the *Contractor*, reasonable evidence that financial arrangements have been made to fulfill the *Owner*'s obligations under the *Contract*, or
 - .2 the Consultant fails to issue a certificate as provided in GC 5.3 PROGRESS PAYMENT, or
 - .3 the *Owner* fails to pay the *Contractor* when due the amounts certified by the *Consultant* or awarded by arbitration or court, or
 - .4 the Owner violates the requirements of the Contract to a substantial degree and the Consultant, except for GC 5.1
 FINANCING INFORMATION REQUIRED OF THE OWNER, confirms by written statement to the Contractor that sufficient cause exists.
- 7.2.4 The *Contractor*'s notice in writing to the *Owner* provided under paragraph 7.2.3 shall advise that if the default is not corrected within 5 *Working Days* following the receipt of the notice in writing, the *Contractor* may, without prejudice to any other right or remedy the *Contractor* may have, stop the *Work* or terminate the *Contract*.
- 7.2.5 If the Contractor terminates the Contract under the conditions set out above, the Contractor shall be entitled to be paid for all work performed including reasonable profit, for loss sustained upon Products and Construction Equipment, and such other damages as the Contractor may have sustained as a result of the termination of the Contract.

PART 8 DISPUTE RESOLUTION

GC 8.1 AUTHORITY OF THE CONSULTANT

- 8.1.1 Differences between the parties to the *Contract* as to the interpretation, application or administration of the *Contract* or any failure to agree where agreement between the parties is called for, herein collectively called disputes, which are not resolved in the first instance by findings of the *Consultant* as provided in GC 2.2 ROLE OF THE CONSULTANT, shall be settled in accordance with the requirements of Part 8 of the General Conditions DISPUTE RESOLUTION.
- 8.1.2 If a dispute arises under the *Contract* in respect of a matter in which the *Consultant* has no authority under the *Contract* to make a finding, the procedures set out in paragraph 8.1.3 and paragraphs 8.2.3 to 8.2.8 of GC 8.2 NEGOTIATION, MEDIATION, AND ARBITRATION, and in GC 8.3 RETENTION OF RIGHTS apply to that dispute with the necessary changes to detail as may be required.
- 8.1.3 If a dispute is not resolved promptly, the *Consultant* will give such instructions as in the *Consultant's* opinion are necessary for the proper performance of the *Work* and to prevent delays pending settlement of the dispute. The parties shall act immediately according to such instructions, it being understood that by so doing neither party will jeopardize any claim the party may have. If it is subsequently determined that such instructions were in error or at variance with the *Contract Documents*, the *Owner* shall pay the *Contractor* costs incurred by the *Contractor* in carrying out such instructions which the *Contractor* was required to do beyond what the *Contract Documents* correctly understood and interpreted would have required, including costs resulting from interruption of the *Work*.

GC 8.2 NEGOTIATION, MEDIATION, AND ARBITRATION

- 8.2.1 In accordance with the latest edition of the Rules for Mediation of Construction Disputes as provided in CCDC 40, the parties shall appoint a Project Mediator
 - .1 within 20 Working Days after the Contract was awarded, or
 - .2 if the parties neglected to make an appointment within the 20 Working Day period, within 10 Working Days after either party by notice in writing requests that the Project Mediator be appointed.

- 8.2.2 A party shall be conclusively deemed to have accepted a finding of the Consultant under GC 2.2 - ROLE OF THE CONSULTANT and to have expressly waived and released the other party from any claims in respect of the particular matter dealt with in that finding unless, within 15 Working Days after receipt of that finding, the party sends a notice in writing of dispute to the other party and to the Consultant, which contains the particulars of the matter in dispute and the relevant provisions of the Contract Documents. The responding party shall send a notice in writing of reply to the dispute within 10 Working Days after receipt of the notice of dispute setting out particulars of this response and any relevant provisions of the Contract Documents.
- 8.2.3 The parties shall make all reasonable efforts to resolve their dispute by amicable negotiations and agree to provide, without prejudice, frank, candid and timely disclosure of relevant facts, information, and documents to facilitate these negotiations.
- 8.2.4 After a period of 10 Working Days following receipt of a responding party's notice in writing of reply under paragraph 8.2.2, the parties shall request the Project Mediator to assist the parties to reach agreement on any unresolved dispute. The mediated negotiations shall be conducted in accordance with the latest edition of the Rules for Mediation of Construction Disputes as provided in CCDC 40.
- 8.2.5 If the dispute has not been resolved within 10 Working Days after the Project Mediator was requested under paragraph 8.2.4 or within such further period agreed by the parties, the Project Mediator shall terminate the mediated negotiations by giving notice in writing to both parties.
- 8.2.6 By giving a notice in writing to the other party, not later than 10 Working Days after the date of termination of the mediated negotiations under paragraph 8.2.5, either party may refer the dispute to be finally resolved by arbitration under the latest edition of the Rules for Arbitration of Construction Disputes as provided in CCDC 40. The arbitration shall be conducted in the jurisdiction of the *Place of the Work*.
- 8.2.7 On expiration of the 10 Working Days, the arbitration agreement under paragraph 8.2.6 is not binding on the parties and, if a notice is not given under paragraph 8.2.6 within the required time, the parties may refer the unresolved dispute to the courts or to any other form of dispute resolution, including arbitration, which they have agreed to use.
- 8.2.8 If neither party requires by notice in writing given within 10 Working Days of the date of notice requesting arbitration in paragraph 8.2.6 that a dispute be arbitrated immediately, all disputes referred to arbitration as provided in paragraph 8.2.6 shall be
 - .1 held in abeyance until
 - (1) Substantial Performance of the Work.
 - (2) the Contract has been terminated, or
 - (3) the Contractor has abandoned the Work,
 - whichever is earlier, and

.2 consolidated into a single arbitration under the rules governing the arbitration under paragraph 8.2.6.

GC 8.3 RETENTION OF RIGHTS

- 8.3.1 It is agreed that no act by either party shall be construed as a renunciation or waiver of any rights or recourses, provided the party has given the notices required under Part 8 of the General Conditions - DISPUTE RESOLUTION and has carried out the instructions as provided in paragraph 8.1.3.
- 8.3.2 Nothing in Part 8 of the General Conditions - DISPUTE RESOLUTION shall be construed in any way to limit a party from asserting any statutory right to a lien under applicable lien legislation of the jurisdiction of the Place of the Work and the assertion of such right by initiating judicial proceedings is not to be construed as a waiver of any right that party may have under paragraph 8.2.6 to proceed by way of arbitration to adjudicate the merits of the claim upon which such a lien is based.

PART 9 PROTECTION OF PERSONS AND PROPERTY

GC 9.1 PROTECTION OF WORK AND PROPERTY

- 9.1.1 The *Contractor* shall protect the *Work* and the *Owner*'s property and property adjacent to the *Place of the Work* from damage which may arise as the result of the *Contractor*'s operations under the *Contract*, and shall be responsible for such damage, except damage which occurs as the result of:
 - .1 errors in the Contract Documents;
 - .2 acts or omissions by the Owner, the Consultant, other contractors, their agents and employees.
- 9.1.2 Before commencing any work, the *Contractor* shall determine the location of all known underground utilities and structures indicated in the *Contract Documents* or that are reasonably apparent in an inspection of the *Place of the Work*.
- 9.1.3 Should the *Contractor* in the performance of the *Contract* damage the *Work*, the *Owner*'s property adjacent to the *Place of the Work*, the *Contractor* shall be responsible for the making good such damage at the *Contractor*'s expense.
- 9.1.4 Should damage occur to the *Work* or *Owner*'s property for which the *Contractor* is not responsible, as provided in paragraph 9.1.1, the *Contractor* shall make good such damage to the *Work* and, if the *Owner* so directs, to the *Owner*'s property. The *Contract Price* and *Contract Time* shall be adjusted as provided in GC 6.1 CHANGES, GC 6.2 CHANGE ORDER, and GC 6.3 CHANGE DIRECTIVE.

GC 9.2 DAMAGES AND MUTUAL RESPONSIBILITY

- 9.2.1 If either party to the *Contract* should suffer damage in any manner because of any wrongful act or neglect of the other party or of anyone for whom the other party is responsible in law, then that party shall be reimbursed by the other party for such damage. The reimbursing party shall be subrogated to the rights of the other party in respect of such wrongful act or neglect if it be that of a third party.
- 9.2.2 If the *Contractor* has caused damage to the work of another contractor on the *Project*, the *Contractor* shall upon due notice in writing settle with the other contractor by negotiation or arbitration. If the other contractor makes a claim against the *Owner* on account of damage alleged to have been so sustained, the *Owner* shall notify the *Contractor* in writing and may require the *Contractor* to defend the action at the *Contractor*'s expense. The *Contractor* shall satisfy a final order or judgment against the *Owner* and pay the costs incurred by the *Owner* arising from such action.
- 9.2.3 If the *Contractor* becomes liable to pay or satisfy a final order, judgment, or award against the *Owner*, then the *Contractor*, upon undertaking to indemnify the *Owner* against any and all liability for costs, shall have the right to appeal in the name of the *Owner* such final order or judgment to any and all courts of competent jurisdiction.

GC 9.3 TOXIC AND HAZARDOUS SUBSTANCES

- 9.3.1 For the purposes of applicable environmental legislation, the *Owner* shall be deemed to have control and management of the *Place of the Work* with respect to existing conditions.
- 9.3.2 Prior to the *Contractor* commencing the *Work*, the *Owner* shall:
 - .1 take all reasonable steps to determine whether any toxic or hazardous substances are present at the *Place of the Work*, and
 - .2 provide the *Consultant* and the *Contractor* with a written list of any such substances that are known to exist and their locations.
- 9.3.3 The *Owner* shall take all reasonable steps to ensure that no person suffers injury, sickness, or death and that no property is damaged or destroyed as a result of exposure to, or the presence of, toxic or hazardous substances which were at the *Place of the Work* prior to the *Contractor* commencing the *Work*.
- 9.3.4 Unless the *Contract* expressly provides otherwise, the *Owner* shall be responsible for taking all necessary steps, in accordance with legal requirements, to dispose of, store or otherwise render harmless toxic or hazardous substances which were present at the *Place of the Work* prior to the *Contractor* commencing the *Work*.

9.3.5 If the Contractor

- .1 encounters toxic or hazardous substances at the *Place of the Work*, or
- .2 has reasonable grounds to believe that toxic or hazardous substances are present at the *Place of the Work*, which were not disclosed by the *Owner*, as required under paragraph 9.3.2, or which were disclosed but have not been dealt with as required under paragraph 9.3.4, the *Contractor* shall
- .3 take all reasonable steps, including stopping the *Work*, to ensure that no person suffers injury, sickness, or death and that no property is <u>damaged</u> or destroyed as a result of exposure to or the presence of the substances, and
- .4 immediately report the circumstances to the *Consultant* and the *Owner* in writing.
- 9.3.6 If the *Contractor* is delayed in performing the *Work* or incurs additional costs as a result of taking steps required under paragraph 9.3.5.3, the *Contract Time* shall be extended for such reasonable time as the *Consultant* may recommend in consultation with the *Contractor* and the *Contractor* shall be reimbursed for reasonable costs incurred as a result of the delay and as a result of taking those steps.
- 9.3.7 Notwithstanding paragraphs 2.2.6 and 2.2.7 of GC 2.2 ROLE OF THE CONSULTANT, or paragraph 8.1.1 of GC 8.1 AUTHORITY OF THE CONSULTANT, the *Consultant* may select and rely upon the advice of an independent expert in a dispute under paragraph 9.3.6 and, in that case, the expert shall be deemed to have been jointly retained by the *Owner* and the *Contractor* and shall be jointly paid by them.
- 9.3.8 The Owner shall indemnify and hold harmless the Contractor, the Consultant, their agents and employees, from and against claims, demands, losses, costs, damages, actions, suits, or proceedings arising out of or resulting from exposure to, or the presence of, toxic or hazardous substances which were at the Place of the Work prior to the Contractor commencing the Work. This obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity set out in GC 12.1 INDEMNIFICATION or which otherwise exist respecting a person or party described in this paragraph.
- 9.3.9 GC 9.3 TOXIC AND HAZARDOUS SUBSTANCES shall govern over the provisions of paragraph 1.3.1 of GC 1.3 RIGHTS AND REMEDIES or GC 9.2 DAMAGES AND MUTUAL RESPONSIBILITY.

GC 9.4 ARTIFACTS AND FOSSILS

- 9.4.1 Fossils, coins, articles of value or antiquity, structures, and other remains or things of scientific or historic interest discovered at the *Place or Work* shall, as between the *Owner* and the *Contractor*, be deemed to be the absolute property of the *Owner*.
- 9.4.2 The *Contractor* shall take all reasonable precautions to prevent removal or damage to discoveries as identified in paragraph 9.4.1, and shall notify the *Consultant* immediately upon discovery of such items.
- 9.4.3 The *Consultant* will investigate the impact on the *Work* of the discoveries identified in paragraph 9.4.1. If conditions are found that would cause an increase or decrease in the *Contractor*'s cost or time to perform the *Work*, the *Consultant*, with the *Owner's* approval, shall issue appropriate instructions for a change in the *Work* as provided in GC 6.2 CHANGE ORDER or GC 6.3 CHANGE DIRECTIVE.

GC 9.5 CONSTRUCTION SAFETY

9.5.1 Subject to paragraph 3.2.2.2 of GC 3.2 - CONSTRUCTION BY OWNER OR OTHER CONTRACTORS, the Contractor shall be solely responsible for construction safety at the Place or the Work and for compliance with the rules, regulations, and practices required by the applicable construction health and safety legislation and shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Work.

PART 10 GOVERNING REGULATIONS

GC 10.1 TAXES AND DUTIES

10.1.1 The Contract Price shall include all taxes and customs duties in effect at the time of the bid closing except for Value Added Taxes payable by the Owner to the Contractor as stipulated in Article A-4 of the Agreement - CONTRACT PRICE.

10.1.2 Any increase or decrease in costs to the *Contractor* due to changes in such included taxes and duties after the time of bid closing shall increase or decrease the *Contract Price* accordingly.

GC 10.2 LAWS, NOTICES, PERMITS, AND FEES

- 10.2.1 The laws of the *Place of the Work* shall govern the *Work*.
- 10.2.2 Except for the permits and fees, including those required under paragraph 10.2.3, which the *Contract Documents* specify as the responsibility of the *Contractor*, the *Owner* shall obtain and pay for all necessary approvals, permits, permanent easements, and rights of servitude.
- 10.2.3 The *Contractor* shall obtain and pay for permits, licenses, inspections and certificates necessary for performance of the *Work* and customarily obtained after signing of the *Contract*.
- 10.2.4 The *Contractor* shall give the required notices and comply with the laws, ordinances, rules, regulations, or codes which are or become in force during the performance of the *Work* and which relate to the *Work*, to the preservation of the public health, and to construction safety.
- 10.2.5 The Contractor shall not be responsible for verifying that the Contract Documents are in compliance with the applicable laws, ordinances, rules, regulations, or codes relating to the Work. If the Contract Documents are at variance therewith, or if, subsequent to the time of bid closing, changes are made to the applicable laws, ordinances, rules, regulations, or codes which require modification to the Contract Documents, the Contractor shall notify the Consultant in writing requesting direction immediately upon such variance or change becoming known. The Consultant will make the changes required to the Contract Documents as provided in GC 6.1 CHANGES, GC 6.2 CHANGE ORDER, and GC 6.3 CHANGE DIRECTIVE.
- 10.2.6 If the *Contractor* fails to notify the *Consultant* in writing; and fails to obtain direction as required in paragraph 10.2.5; and performs work knowing it to be contrary to any laws, ordinances, rules, regulations, or codes; the *Contractor* shall be responsible for and shall correct the violations thereof; and shall bear the costs, expenses, and damages attributable to the failure to comply with the provisions of such laws, ordinances, rules, regulations, or codes.
- 10.2.7 If, subsequent to the time of bid closing, changes are made to applicable laws, ordinances, rules, regulations, or codes of authorities having jurisdiction which affect the cost of the *Work*, either party may submit a claim in accordance with the requirements of GC 6.6 CLAIMS.

GC 10.3 PATENT FEES

- 10.3.1 The *Contractor* shall pay the royalties and patent licence fees required for the performance of the *Contract*. The *Contractor* shall hold the *Owner* harmless from and against claims, demands, losses, costs, damages, actions, suits, or proceedings arising out of the *Contractor*'s performance of the *Contract* which are attributable to an infringement or an alleged infringement of a patent of invention by the *Contractor* or anyone for whose acts the *Contractor* may be liable.
- 10.3.2 The *Owner* shall hold the *Contractor* harmless against claims, demands, losses, costs, damages, actions, suits, or proceedings arising out of the *Contractor*'s performance of the *Contract* which are attributable to an infringement or an alleged infringement of a patent of invention in executing anything for the purpose of the *Contract*, the model, plan, or design of which was supplied to the *Contractor* as part of the *Contract Documents*.

GC 10.4 WORKERS' COMPENSATION

- 10.4.1 Prior to commencing the *Work*, *Substantial Performance of the Work*, and the issuance of the final certificate for payment, the *Contractor* shall provide evidence of compliance with workers' compensation legislation at the *Place of the Work*, including payments due thereunder.
- 10.4.2 At any time during the term of the *Contract*, when requested by the *Owner*, the *Contractor* shall provide such evidence of compliance by the *Contractor* and *Subcontractors*.

PART 11 INSURANCE AND CONTRACT SECURITY

GC 11.1 INSURANCE

11.1.1 Without restricting the generality of GC 12.1 - INDEMNIFICATION, the *Contractor* shall provide, maintain, and pay for the insurance coverages specified in GC 11.1 - INSURANCE. Unless otherwise stipulated, the duration of each insurance policy shall be from the date of commencement of the *Work* until the date of the final certificate for payment. Prior to commencement of the *Work* and upon the placement, renewal, amendment, or extension of all or any part of the insurance, the *Contractor* shall promptly provide the *Owner* with confirmation of coverage and, if required, a certified true copy of the policies certified by an authorized representative of the insurer together with copies of any amending endorsements.

.1 General Liability Insurance:

General liability insurance shall be in the joint names of the *Contractor*, the *Owner*, and the *Consultant*, with limits of not less than \$2,000,000 per occurrence and with a property damage deductible not exceeding \$2,500. The insurance coverage shall not be less than the insurance required by IBC Form 2100, or its equivalent replacement, provided that IBC Form 2100 shall contain the latest edition of the relevant CCDC endorsement form. To achieve the desired limit, umbrella, or excess liability insurance may be used. All liability coverage shall be maintained for completed operations hazards from the date of *Substantial Performance of the Work*, as set out in the certificate of *Substantial Performance of the Work*, on an ongoing basis for a period of 6 years following *Substantial Performance of the Work*. Where the *Contractor* maintains a single, blanket policy, the addition of the *Owner* and the *Consultant* is limited to liability arising out of the *Work* and all operations necessary or incidental thereto. The policy shall be endorsed to provide the *Owner* with not less than 30 days notice in writing in advance of any cancellation, and of change or amendment restricting coverage.

.2 Automobile Liability Insurance:

Automobile liability insurance in respect of licensed vehicles shall have limits of not less than \$2,000,000 inclusive per occurrence for bodily injury, death, and damage to property, covering all licensed vehicles owned or leased by the *Contractor*, and endorsed to provide the *Owner* with not less than 15 days notice in writing in advance of any cancellation, change or amendment restricting coverage. Where the policy has been issued pursuant to a government-operated automobile insurance system, the *Contractor* shall provide the *Owner* with confirmation of automobile insurance coverage for all automobiles registered in the name of the *Contractor*.

.3 Aircraft and Watercraft Liability Insurance:

Aircraft and watercraft liability insurance with respect to owned or non-owned aircraft and watercraft if used directly or indirectly in the performance of the *Work*, including use of additional premises, shall be subject to limits of not less than \$2,000,000 inclusive per occurrence for bodily injury, death, and damage to property including loss of use thereof and limits of not less than \$2,000,000 for aircraft passenger hazard. Such insurance shall be in a form acceptable to the *Owner*. The policies shall be endorsed to provide the *Owner* with not less than 15 days notice in writing in advance of cancellation, change, or amendment restricting coverage.

.4 Property and Boiler and Machinery Insurance:

- (1) "All risks" property insurance shall be in the joint names of the *Contractor*, the *Owner*, the *Consultant*, and all *Subcontractors*, insuring not less than the sum of the amount of the *Contract Price* and the full value, as stated in the Supplementary Conditions, of *Products* that are specified to be provided by the *Owner* for incorporation into the *Work*, with a deductible not exceeding \$2,500. The insurance coverage shall not be less than the insurance required by IBC Form 4042 or its equivalent replacement, provided that IBC Form 4042 shall contain the latest edition of the relevant CCDC endorsement form. The coverage shall be maintained continuously until 5 *Working Days* after the date of the final certificate for payment.
- (2) Boiler and machinery insurance shall be in the joint names of the *Contractor*, the *Owner*, and the *Consultant* for not less than the replacement value of the boilers, pressure vessels, and other insurable objects forming part of the *Work*. The insurance provided shall not be less than the insurance provided by the "Comprehensive Boiler and Machinery Form" and shall be maintained continuously from commencement of use or operation of the property insured and until 5 *Working Days* after the date of the final certificate for payment.

- (3) The policies shall allow for partial or total use or occupancy of the *Work*. If because of such use or occupancy the *Contractor* is unable to provide coverage, the *Contractor* shall notify the *Owner* in writing. Prior to such use or occupancy the *Owner* shall provide, maintain, and pay for all risk property and boiler insurance insuring the full value of the *Work*, as in sub-paragraphs (1) and (2), including coverage for such use or occupancy and shall provide the *Contractor* with proof of such insurance. The *Contractor* shall refund to the *Owner* the unearned premiums applicable to the *Contractor*'s policies upon termination of coverage.
- (4) The policies shall provide that, in the case of a loss or damage, payment shall be made to the *Owner* and the *Contractor* as their respective interests may appear. The *Contractor* shall act on behalf of the *Owner* for the purpose of adjusting the amount of such loss or damage payment with the insurers. When the extent of the loss or damage is determined, the *Contractor* shall proceed to restore the *Work*. Loss or damage shall not affect the rights and obligations of either party under the *Contract* except that the *Contractor* shall be entitled to such reasonable extension of *Contract Time* relative to the extent of the loss or damage as the *Consultant* may recommend in consultation with the *Contractor*.
- (5) The Contractor shall be entitled to receive from the Owner, in addition to the amount due under the Contract, the amount at which the Owner's interest in restoration of the Work has been appraised, such amount to be paid as the restoration of the Work proceeds and as provided in GC 5.5 APPLICATIONS FOR PROGRESS PAYMENT and GC 5.6 PROGRESS PAYMENT. In addition the Contractor shall be entitled to receive from the payments made by the insurer the amount of the Contractor's interest in the restoration of the Work.
- (6) In the case of loss or damage to the *Work* arising from the work of another contractor, or *Owner*'s own forces, the *Owner*, in accordance with the *Owner*'s obligations under paragraph 3.2.2.4 of GC 3.2 CONSTRUCTION BY OWNER OR OTHER CONTRACTORS, shall pay the *Contractor* the cost of restoring the *Work* as the restoration of the *Work* proceeds and as provided in GC 5.5 APPLICATIONS FOR PROGRESS PAYMENT and GC 5.6 PROGRESS PAYMENT.
- .5 Contractors' Equipment Insurance:
 - "All risks" contractors' equipment insurance covering Construction Equipment used by the Contractor for the performance of the Work, including boiler insurance on temporary boilers and pressure vessels, shall be in a form acceptable to the Owner and shall not allow subrogation claims by the insurer against the Owner. The policies shall be endorsed to provide the Owner with not less than 15 days notice in writing in advance of cancellation, change, or amendment restricting coverage. Subject to satisfactory proof of financial capability by the Contractor for self-insurance, the Owner agrees to waive the equipment insurance requirement.
- 11.1.2 The *Contractor* shall be responsible for deductible amounts under the policies except where such amounts may be excluded from the *Contractor*'s responsibility by the terms of GC 9.1 PROTECTION OF WORK AND PROPERTY and GC 9.2 DAMAGES AND MUTUAL RESPONSIBILITY.
- 11.1.3 Where the full insurable value of the *Work* is substantially less than the *Contract Price*, the *Owner* may reduce the amount of insurance required or waive the course of construction insurance requirement.
- 11.1.4 If the Contractor fails to provide or maintain insurance as required by the Contract Documents, then the Owner shall have the right to provide and maintain such insurance and give evidence to the Contractor and the Consultant. The Contractor shall pay the cost thereof to the Owner on demand or the Owner may deduct the amount which is due or may become due to the Contractor.
- 11.1.5 All required insurance policies shall be with insurers licensed to underwrite insurance in the jurisdiction of the *Place* of the Work.

GC 11.2 CONTRACT SECURITY

- 11.2.1 The *Contractor* shall, prior to commencement of the *Work* or within the specified time, provide to the *Owner* any contract security specified in the *Contract Documents*.
- 11.2.2 If the *Contract Documents* require surety bonds to be provided, such bonds shall be issued by a duly licensed surety company authorized to transact the business of suretyship in the province or territory of the *Place of the Work* and shall be maintained in good standing until the fulfillment of the *Contract*. The form of such bonds shall be in accordance with the latest edition of the CCDC approved bond forms.

30 CCDC 18 – 2001

PART 12 INDEMNIFICATION — WAIVER — WARRANTY

GC 12.1 INDEMNIFICATION

- 12.1.1 The *Contractor* shall indemnify and hold harmless the *Owner* and the *Consultant*, their agents and employees from and against claims, demands, losses, costs, damages, actions, suits, or proceedings (hereinafter called "claims"), by third parties that arise out of, or are attributable to, the *Contractor*'s performance of the *Contract* provided such claims are:
 - .1 attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property, and
 - .2 caused by negligent acts or omissions of the *Contractor* or anyone for whose acts the *Contractor* may be liable, and
 - .3 made in writing within a period of 6 years from the date of Substantial Performance of the Work as set out in the certificate of Substantial Performance of the Work, or within such shorter period as may be prescribed by any limitation statute of the province or territory of the Place of the Work.

The Owner expressly waives the right to indemnity for claims other than those stated above.

- 12.1.2 The obligation of the *Contractor* to indemnify hereunder shall be limited to \$2,000,000 per occurrence from the commencement of the *Work* until *Substantial Performance of the Work* and thereafter to an aggregate limit of \$2,000,000.
- 12.1.3 The *Owner* shall indemnify and hold harmless the *Contractor*, the *Contractor*'s agents and employees from and against claims, demands, losses, costs, damages, actions, suits, or proceedings arising out of the *Contractor*'s performance of the *Contract* which are attributable to a lack of or defect in title or an alleged lack of or defect in title to the *Place of the Work*.
- 12.1.4 GC 12.1 INDEMNIFICATION shall govern over the provisions of paragraph 1.3.1 of GC 1.3 -RIGHTS AND REMEDIES or GC 9.2 DAMAGES AND MUTUAL RESPONSIBILITY.

GC 12.2 WAIVER OF CLAIMS

12.2.1 Waiver of Claims by Owner

As of the date of the final certificate for payment, the *Owner* expressly waives and releases the *Contractor* from all claims against the *Contractor* including without limitation those that might arise from the negligence or breach of contract by the *Contractor* except one or more of the following:

- .1 those made in writing prior to the date of the final certificate for payment and still unsettled;
- .2 those arising from the provisions of GC 12.1 INDEMNIFICATION or GC 12.3 WARRANTY;
- .3 those arising from the provisions of paragraph 9.3.5 of GC 9.3 TOXIC AND HAZARDOUS SUBSTANCES AND MATERIALS and arising from the *Contractor* bringing or introducing any toxic or hazardous substances and materials to the *Place of the Work* after the *Contractor* commences the *Work*.

In the Common Law provinces GC 12.2.1.4 shall read as follows:

.4 those made in writing within a period of 6 years from the date of Substantial Performance of the Work, as set out in the certificate of Substantial Performance of the Work, or within such shorter period as may be prescribed by any limitation statute of the province or territory of the Place of the Work and arising from any liability of the Contractor for damages resulting from the Contractor's performance of the Contract with respect to substantial defects or deficiencies in the Work for which the Contractor is proven responsible. As used herein "substantial defects or deficiencies" means those defects or deficiencies in the Work which affect the Work to such an extent or in such a manner that a significant part or the whole of the Work is unfit for the purpose intended by the Contract Documents.

In the Province of Quebec GC 12.2.1.4 shall read as follows:

.4 those arising under the provisions of Article 2118 of the Civil Code of Quebec.

12.2.2 Waiver of Claims by Contractor

As of the date of the final certificate for payment, the *Contractor* expressly waives and releases the *Owner* from all claims against the *Owner* including without limitation those that might arise from the negligence or breach of contract by the *Owner* except:

31

.1 those made in writing prior to the Contractor's application for final payment and still unsettled; and

- .2 those arising from the provisions of GC 9.3 TOXIC AND HAZARDOUS SUBSTANCES or GC 10.3 PATENT FEES.
- 12.2.3 GC 12.2 WAIVER OF CLAIMS shall govern over the provisions of paragraph 1.3.1 of GC 1.3 RIGHTS AND REMEDIES, GC 6.6 CLAIMS, and GC 9.2 DAMAGES AND MUTUAL RESPONSIBILITY.

GC 12.3 WARRANTY

- 12.3.1 Except for extended warranties as described in paragraph 12.3.6, the warranty period under the *Contract* is one year from the date of *Substantial Performance of the Work*.
- 12.3.2 The *Contractor* shall be responsible for the proper performance of the *Work* to the extent that the design and *Contract Documents* permit such performance.
- 12.3.3 Subject to paragraph 12.3.2, the *Contractor* shall correct promptly, at the *Contractor*'s expense, defects or deficiencies in the *Work* which appear prior to and during the warranty periods specified in the *Contract Documents*.
- 12.3.4 The *Owner*, through the *Consultant*, shall promptly give the *Contractor* notice in writing of observed defects and deficiencies which occur during the one-year warranty period.
- 12.3.5 The *Contractor* shall correct or pay for damage resulting from corrections made under the requirements of paragraph 12.3.3.
- 12.3.6 Any extended warranties required beyond the one-year warranty period, as described in paragraph 12.3.1, shall be as specified in the *Contract Documents*. Extended warranties shall be issued by the warrantor to the benefit of the *Owner*. The *Contractor's* responsibility with respect to extended warranties shall be limited to obtaining any such extended warranties from the warrantor. The obligations under such extended warranties are solely the responsibility of the warrantor.

Town of Three Rivers	CCDC 41	Section 00 72 10
Queens Road Sidewalk Upgrades	Insurance Documents	Page 1
Contract 242652.00		February 2025

INSURANCE REQUIREMENTS



1900-275 Slater Street Ottawa, ON K1P 5H9

Tel: 613-236-9455 Fax: (613) 236-9526 info@ccdc.org

CANADIAN CONSTRUCTION DOCUMENTS COMMITTEE CANADIAN CONSTRUCTION DOCUMENTS COMMITTEE CANADIAN CONSTRUCTION DOCUMENTS COMMITTEE

CCDC 41 CCDC INSURANCE REQUIREMENTS

PUBLICATION DATE: December 14, 2020

- 1. General liability insurance shall be with limits of not less than \$10,000,000 per occurrence, an aggregate limit of not less than \$10,000,000 within any policy year with respect to completed operations, and a deductible not exceeding \$10,000. The insurance coverage shall not be less than the insurance provided by IBC Form 2100 (including an extension for a standard provincial and territorial form of non-owned automobile liability policy) and IBC Form 2320. To achieve the desired limit, umbrella or excess liability insurance may be used. Subject to satisfactory proof of financial capability by the *Contractor*, the *Owner* may agree to increase the deductible amounts.
- 2. Automobile liability insurance in respect of vehicles that are required by law to be insured under a contract by a Motor Vehicle Liability Policy, shall have limits of not less than \$10,000,000 inclusive per occurrence for bodily injury, death and damage to property, covering all vehicles owned or leased by the *Contractor*. Where the policy has been issued pursuant to a government-operated automobile insurance system, the *Contractor* shall provide the *Owner* with confirmation of automobile insurance coverage for all automobiles registered in the name of the *Contractor*.
- 3. Manned Aircraft and watercraft liability insurance with respect to owned or non-owned aircraft and watercraft (if used directly or indirectly in the performance of the *Work*), including use of additional premises, shall have limits of not less than \$10,000,000 inclusive per occurrence for bodily injury, death and damage to property including loss of use thereof and limits of not less than \$10,000,000 for aircraft passenger hazard. Such insurance shall be in a form acceptable to the *Owner*.
- 4. Unmanned aerial vehicle liability insurance with respect to owned or non-owned aircraft (if used directly or indirectly in the performance of the Work), shall have limits of not less than \$5,000,000 per occurrence or accident for bodily injury, death and damage to property or such amounts as required by any applicable law or regulation.
- 5. "Broad form" property insurance shall have limits of not less than the sum of 1.1 times *Contract Price* and the full value, as stated in the *Contract*, of *Products* and design services that are specified to be provided by the *Owner* for incorporation into the *Work*, with a deductible not exceeding \$10,000. The insurance coverage shall not be less than the insurance provided by IBC Forms 4042 and 4047 or their equivalent replacement. Subject to satisfactory proof of financial capability by the *Contractor*, the *Owner* may agree to increase the deductible amounts.
- 6. Boiler and machinery insurance shall have limits of not less than the replacement value of the permanent or temporary boilers and pressure vessels, and other insurable objects forming part of the *Work*. The insurance coverage shall not be less than the insurance provided by a comprehensive boiler and machinery policy including hot testing and commissioning.
- 7. Contractors' equipment insurance coverage written on an "all risks" basis covering *Construction Equipment* used by the *Contractor* for the performance of the *Work*, shall be in a form acceptable to the *Owner* and shall not allow subrogation claims by the insurer against the *Owner*. Subject to satisfactory proof of financial capability by the *Contractor* for self-insurance, the *Owner* may agree to waive the equipment insurance requirement.
- 8. Contractors' Pollution liability insurance shall have limits of not less than \$5,000,000 per occurrence for bodily injury, death and damage to property.

Association of Canadian Engineering Companies

Canadian Construction Association

Construction
Specifications Canada

The Royal Architectural Institute of Canada

Town of Three Rivers	Supplementary	Section 00 73 00
Queens Road Sidewalk	General Conditions	Page 1
Upgrades		
Contract No. 242652.00	to CCDC 18-2001	February 2025

THESE SUPPLEMENTARY GENERAL CONDITIONS AMEND THE DEFINITIONS AND GENERAL CONDITIONS

DEFINITIONS

- 1. Page 6, delete Definition 7 and replace with the following new definition:
 - 7. The Contract Price shall be the sum of the products of the actual final quantities that are incorporated in, or made necessary by the Work, as confirmed by count and measurement, multiplied by the appropriate Unit Prices from the Tender Form together with any adjustments that are made in accordance with the provisions of the Contract Documents plus the amount of Government Sales Tax. When a Lump Sum Stipulated Price form the basis of payment, the Contract Price is as stated in the Form of Agreement, Article A-4, plus the amount of Government Sales Tax.

SEE ATTACHED GENERAL CONDITIONS OF CONTRACT

1. GC 2.4 - DEFECTIVE WORK

Page 11, clause 2.4.3, add the following sentence at the end of the clause:

"If the Consultant determination is not accepted by either party, then the matter shall be settled in accordance with the requirements of Part 8 of the General Conditions - DISPUTE RESOLUTION."

2. GC 3.7 - LAYOUT OF THE WORK

Page 13, delete clause 3.7.1 in its entirety and replace with the following:

3.7.1 Before the work of the Contract begins, the Consultant will, once only, provide the data for sufficient reference points to identify the Works on the ground. The Contractor shall have all reference points established on site by a licensed surveyor, at the place of the Work, at no additional cost to the Owner.

3. GC 3.11 - SHOP DRAWINGS

Page 14, clause 3.11.4, delete second sentence and replace to read: "Contractor shall prepare and jointly review with Consultant a schedule of dates for submission of shop drawings."

4. GC 5.4 - BASIS OF PAYMENT FOR COST PLUS WORK

Page 16, after clause 5.4.2, add the following:

5.4.3 The percentage fee as stated in clause 5.4.1 shall be two percent (2%) of the cost plus work but shall not be applied to

E C E D'	0 1	2 1 00 72 00
Town of Three Rivers	Supplementary	Section 00 73 00
Queens Road Sidewalk	General Conditions	Page 2
Upgrades		
Contract No. 242652.00	to CCDC 18-2001	February 2025

the cost of construction equipment when such cost is based on rates which already include overhead and profit.

5. GC 5.6 - PROGRESS PAYMENT

Page 18, in clause 5.6.1, line 1, change "5 working days" to read "10 calendar days" and in line 2, change "GC5.2" to read "GC 5.5".

Page 18, delete clause 5.6.2 in its entirety and replace with the following:

- 5.6.2 The Owner shall make payment to the Contractor on account as provided in Article A-5 of the Agreement PAYMENT on or before twenty (20) calendar days after the later of:

 .1 receipt by the Consultant of the application for payment;
 - .I receipt by the Consultant of the application for payment; or
 - $.2\,$ the last day of the monthly payment period covered by the application for payment.

Page 18, after clause 5.6.3, add the following additional clause:

5.6.4 The Contractor shall pay promptly any and all accounts for labour, services and materials used for the purpose of the fulfillment of this Contract as and when such accounts become due and payable and shall furnish the Consultant with proof of payment of such accounts in such form and as often as the Consultant may request.

6. GC 5.7 - SUBSTANTIAL PERFORMANCE OF THE WORK

Page 18, after clause 5.7.4, add the following additional clause:

5.7.5 Fifteen (15) days before the Contractor submits the application for Substantial Performance of the Work, all Operations and Maintenance Manual materials shall be submitted to the Consultant in accordance with the Contract Documents. The Certificate of Substantial Performance will not be issued until the Consultant received the required documents.

7. GC 5.8 PAYMENT OF HOLDBACK UPON SUBSTANTIAL PERFORMANCE OF THE WORK

Page 18, after clause 5.8.1.2, add the following:

- 5.8.1.3 Submit a certificate by deed search to the Owner by a solicitor qualified to practice law in the Province of Prince of Prince Edward Island that no lien associated with the Work exists against the Owner's property or work.
- 5.8.1.4 Submit a clearance letter from the Workers' Compensation Board.
- 5.8.1.5 All such documents shall be dated not earlier than the expiry of the lien period.

Town of Three Rivers Queens Road Sidewalk	Supplementary General Conditions	Section 00 73 00 Page 3
Upgrades		
Contract No. 242652.00	to CCDC 18-2001	February 2025

Page 19, delete clause 5.8.3 in its entirety, renumber subsequent clause. Page 19, add new clause 5.8.4 as follows:

If, within 60 days after the issue by the Consultant of the Certificate of Substantial Performance, the Contractor has not corrected all the deficiencies, the Owner shall retain sufficient money to cover the cost of completing said deficiencies, as determined by the Consultant, in addition to holding monies retained in accordance with the provisions of this Contract and subject to the provisions of the Mechanics' Lien legislation of P.E.I.

8. GC 5.10 - FINAL PAYMENT

Page 19, delete clause 5.10.1 in its entirety and replace with the following:

- 5.10.1 When the Contractor considers that the Work is completed, the Contractor shall submit an application for final payment. The Contractor's application for final payment is considered to be valid when:
 - .1 Work has been completed in compliance with the Contract Documents and the Consultant is satisfied that all the requirements of the Contract have been fulfilled by the Contractor.
 - .2 Defects have been corrected and deficiencies have been completed.
 - .3 Equipment and systems have been tested, adjusted and balanced and are fully operational and written reports as outlined in the Contract Documents have been provided to the Consultant.
 - .4 Certificates required by utility companies, manufacturer's representative and inspectors have been submitted.
 - .5 Spare parts, maintenance materials, warranties and bonds have been provided.
- 5.10.2 If Work is deemed incomplete by the Consultant, complete outstanding items and request re-inspection.
- 5.10.3 If, in the opinion of the Consultant, it is not expedient to correct defective work or work is not performed in accordance with the requirements of the Contract, the Owner may deduct from the Contract Price the difference in value between work performed and that called for by the Contract Documents, the amount of which shall be determined by the Consultant.

Page 19, renumber existing clauses 5.10.2, 5.10.3 and 5.10.4 to 5.10.4, 5.10.5, and 5.10.6 respectively. In renumbered clause 5.10.6, change "5 working days" to read "20 calendar days".

9. GC 6.2 - CHANGE ORDER

Page 20, add new clause 6.2.4 as follows:

Town of Three Rivers Queens Road Sidewalk	Supplementary General Conditions	Section 00 73 00 Page 4
Upgrades		5
Contract No. 242652.00	to CCDC 18-2001	February 2025

- 6.2.4 If the method of adjustment of the Contract Price presented by the Contractor is a lump sum or a unit price quotation as indicated in 6.2.2.2, the mark-up on changes shall be as follow:
 - .1 Work performed by Contractor's own forces: cost plus ten percent (10%) overhead plus ten percent (10%) fee.
 - .2 Work performed by Subcontractor's forces: cost plus ten percent (10%) overhead plus five percent (5%) fee.

10. GC 6.3 - CHANGE DIRECTIVE

Page 20, in clause 6.3.8, add the following sentence at the end of the paragraph:

"If such determination by the Consultant is not accepted by either party, then the decision shall be made in accordance with Part 8 of the General Conditions - DISPUTE RESOLUTION."

11. GC 6.5 - DELAYS

Page 21, clause 6.5.2, delete last sentence of paragraph and replace with the following sentence:

"The Contractor will not be reimbursed by the Owner for costs incurred by the Contractor as a result of such delay."

12. GC 9.5 - CONSTRUCTION SAFETY

Page 27, after GC 9.5.1, add the following:

9.5.2 W.H.M.I.S. - Workplace Hazardous Materials Information Systems & Hazardous Products Act - Government of Canada

Regulations under the Hazardous Products Act and the regulation regarding the handling and storage of hazardous materials must be complied with (reference: Regulation 88-221). These regulations stipulate that employees must be trained in the proper handling of workplace hazardous material.

13. GC 10.1 - TAXES AND DUTIES

Page 28, after clause 10.1.2, add the following:

10.1.3 The Contractor shall indicate on each application for payment, as a separate amount, the appropriate Government Sales Tax that the Owner is legally obliged to pay. This amount will be paid to the Contractor in addition to the amount certified for payment under the Contract.

14. GC 10.2 - LAWS, NOTICES, PERMITS AND FEES

Town of Three Rivers	Supplementary	Section 00 73 00
Queens Road Sidewalk	General Conditions	Page 5
Upgrades Contract No. 242652.00	to CCDC 18-2001	February 2025

Page 28, in paragraph 10.2.3, add new sentences to end of paragraph as follows:

"Various jurisdictions have requirements for posting non-refundable fees before excavations are carried out within public rights-of-way. The Contractor is responsible for the determination of the requirement for each specific project and for any required deposits."

15. GC 11.1 - INSURANCE

Insurance requirements shall meet CCDC 41 Insurance Requirements.

Page 29, GC 11, 11.1.1, add the following sentence:

"Such insurance shall have Province of Prince Edward Island, Town of Three Rivers, Montague Sewer and Water Corporation, and CBCL Limited as additional insureds and shall contain cross liability coverage and preclude subrogation by the insured against the Owner".

16. GC 11.2 - CONTRACT SECURITY

Page 30, delete GC 11.2.1 in its entirety and replace with the following:

11.2.1 The Contractor shall, prior to commencement of the Work, provide to the Owner a Performance Bond and a Labour and Materials Bond, each in the amount of 50% of the Estimated Amount Due. Should it become apparent that the final cost of the project will exceed the Estimated Amount Due by more than 10%, the Contractor shall arrange to have his bonds reissued, based on the projected final cost.

Page 30, add new clause GC 11.2.2 as follows:

11.2.2 As an alternate to Performance and Labour and Material Payment Bonds, the contractor may provide security in the form of certified cheque in the amount of 10% of the tender price.

Page 31, add new clause GC 11.2.3 as follows:

11.2.3 The Contract Security will be retained until the expiration of the Period of Maintenance.

17. GC 12.3 - WARRANTY

Page 32, add new clause GC 12.3.7 as follows:

12.3.7 All work of repair or replacement carried out during the Warranty Period, shall be maintained for a period of one (1) year from the date of the Consultant's acceptance of the work of repair or replacement notwithstanding that the Warranty Period expires before the expiration of the said year. This clause shall not apply to normal operation maintenance, which shall be carried out by the Owner.

Town of Three Rivers Oueens Road Sidewalk	Supplementary General Conditions	Section 00 73 00 Page 6
Upgrades	General Gonardions	1 age 0
Contract No. 242652.00	to CCDC 18-2001	February 2025

18. GC 13.1 TIME FOR COMPLETION

13.1.1 The Works shall be completed by the date indicated in the Article A-1 of the Agreement Between Owner and Contractor. The Date for Completion shall be the time to complete the Work given in the Tender Form.

19. GC 14.1 LIQUIDATED DAMAGES

- 14.1.1 Time shall be construed as being of the essence of the Contract.
- 14.1.2 Should the Contractor fail to complete the works by the Date for Completion, the period of time from the Date for Completion to the Date of Substantial Performance of the Works as determined by the Consultant, shall be termed the Period of Delay.
- 14.1.3 In the event of there being a Period of Delay, the Contractor shall be liable for and shall pay to the Owner the cost of continuance of supervision during the Period of Delay, and all additional fees, disbursements and costs incurred by the Owner by reason of there being such period of delay for each and every day that the work or works shall remain unfinished after the time so specified. The said sum or sums in view of the difficulty of ascertaining the losses which the Owner may suffer by reason of delay in the performance of the said Works, is hereby agreed upon, fixed and determined by the parties hereto as liquidated damages that the Owner will suffer by reason of said delay and default and not as penalty. The Owner may deduct the amount of such liquidated damages from each progress payment following the event until the project reaches Substantial Performance as certified by the Consultant.

Town of Three Rivers Queens Road Sidewalk Upgrades	G	ENERAL INSTRUCTIONS	Section 01 10 10 Page 1
Contract No. 242652.00			February 2025
1.1 DESCRIPTION OF WORK	.1	The work to be done and list drawings are set forth in 00 Description of Work and List	21 10 -
1.2 FAMILIARIZATION WITH SITE	.1	Before submitting a bid, it is that bidders visit the site to verify the form, nature and end work, materials needed, the mand the temporary facilities perform the Work.	to review and extent of the means of access
1.3 CODES AND STANDARDS	.1	Perform work in accordance will edition of the National Build National Fire Code (NFC), Nat Code (NPC) and any other code or local application, include amendments up to bid closing that in any case of conflict the more stringent requirements	ding Code (NBC), cional Plumbing e of provincial ing all date, provided or discrepancy,
	.2	Materials and workmanship must requirements of specified sta and referenced documents.	
1.4 INTERPRETATION OF DOCUMENTS	.1	Supplementary to the Order of article of the General Condit Contract, the Division 01 sec precedence over the technical sections in other Divisions of Specification Manual.	tions of the ctions take L specification
1.5 TERM ENGINEER OR OWNER'S REPRESENTATIVE	.1	Unless specifically stated of term Engineer or Owner's Repr used in the Specifications ar Drawings shall mean the Const in the General Conditions of	resentative where and on the alternations defined
1.6 SETTING OUT WORK	.1	The Contractor will set stake location, alignment and eleva and measurement of the work.	

.2

Supply such devices as straight edges and templates required to facilitate Owner's

			01 10 10
Town of Three Rivers Queens Road Sidewalk Upgrades	G:	NERAL INSTRUCTIONS	Section 01 10 10 Page 2
Contract No. 242652.00			February 2025
		Representatives inspe	ection of work.
	.3	Supply stakes and oth required for laying of	
1.7 MEASUREMENT FOR PAYMENT	.1	Notify Owner's Represadvance of operations measurements for paym	
1.8 MAINTENANCE OF WORK DURING CONSTRUCTION	.1	continuous and effect by day, with adequate that the roadway or s	a condition satisfactory
1.9 CODES	.1 Perform work in accordance with Code of Practice of the Department of Labour as pertains to the Temporary Workplace Traff Control Manual (Department of Transports and Infrastructure and any other code of federal, provincial or local application provided that in any case of conflict or discrepancy, the more stringent requirements shall apply.		tment of Labour as it rary Workplace Traffic tment of Transportation dany other code of r local application case of conflict or
	.2	exceed applicable sta General Standards Boa Standards Association	rd (CGSB), Canadian (CSA), American Society ials (ASTM) and other
	.3	standard as re-affirm specification. Standard	rision of any referenced med or revised to date of rds or codes not dated ons in force on date of
1.10 DOCUMENTS REQUIRED	.1	Maintain at job site, following: .1 Contract drawin .2 Specifications3 Addenda.	
		.4 Reviewed drawin .5 Change orders.	gs.

Town of Three Rivers Queens Road Sidewalk Upgrades	GENERAL INSTRUCTIONS	Section 01 10 10 Page 3
Contract No. 242652.00		February 2025
	.6 Other modifications .7 Copy of approved wo	
1.11 SITE CONDITIONS	.1 The Contractor will be r the site and review exis	
1.12 CONSULTANT	.1 Consultant can be contac	ted at:
	CBCL Limited 135 St. Peters Road, S Charlottetown, PEI C1A Telephone: (902)892-03 Facsimile: (902)368-34	1 5P3 303
1.13 WORK SCHEDULE	.1 Provide to the Owner's R writing and within 5 wor Contract award, a detail schedule and traffic con schedule shall show prop undertaken and anticipat for each category of wor Table.	king days after ed construction trol plan. The osed work to be ed completion dates
	.2 After receiving the Cont prior to start of construction meeting inv Owner's Representative w place and time to be det Owner's Representative. review implications of t schedule of work, method	cuction, a pre- colving Contractor and cill be held at a ermined by the This meeting will he contract, design,

control.

.3 Interim reviews of work progress based on work schedule will be conducted as decided by Owner's Representative and schedule updated by Contractor in conjunction with and to approval of Owner's Representative.

environment protection methods and traffic

- .4 No work will begin until the pre-construction meeting is held.
- .5 Following the pre-construction meeting and approval of the schedule and traffic control plan, the work will be so scheduled to meet the time restraints and have the project

Town of Three Rivers Queens Road Sidewalk Upgrades		GENERAL INSTRUCTIONS	Section 01 10 10 Page 4
Contract No. 242652.00			February 2025
		completed on time.	
1.14 SANITARY SERVICES	.1	The Contractor shall provi sanitary facilities for th locations specified by the Representative. Provision facilities shall meet requ provincial government and and authorities.	e use of workers at Owner's of sanitary irements of
1.15 CONTRACTOR'S USE OF SITE	.1	Use of site: for execution roadway right of way and t specified by the Owner's R	hose areas
1.16 PROJECT MEETINGS	.1	Consultant will arrange prassume responsibility for recording and distributing	setting times and
1.17 EXISTING SERVICES	.1	Carry out work at times di authorities having jurisdi of disturbance to pedestri traffic.	ction, with minimum
	.2	Before commencing work, es and extent of service line and notify Owner's Represe findings.	s in area of work
	.3	Submit schedule to and obt Owner's Representative for closure of active service to approved schedule and p affected parties.	any shut down or or facility. Adhere
	. 4	Where unknown services are immediately advise Owner's confirm findings in writin	Representative and
	.5	Record locations of mainta	ined, re routed and

abandoned service lines.

. 6

times.

At least one lane of traffic shall be

maintained at construction sites at all

Town of Three Rivers Queens Road Sidewalk Upgrades		GENERAL INSTRUCTIONS	Section 01 10 10 Page 5
Contract No. 242652.00			February 2025
	. 7	Ensure pedestrian and other unduly impeded, interrupted, execution or existence of wo	or endangered by
	. 8	Maintain existing signs at a is necessary to temporarily shall be dismantled and re-e temporary post or stand set construction area. The work be incidental and no separat made for maintaining or movi	remove a sign, it stablished on a back from is considered to e payment will be
	. 9	Verify locations of any unde utilities.	rground
1.18 ADDITIONAL DRAWINGS	.1	Owner's Representative may f drawings for clarification. drawings have same meaning a they were included with plan Contract documents.	These additional nd intent as if
1.19 RELICS, ANTIQUES . AND WILDLIFE HABITAT	.1	Protect relics, antiquities, habitat, items of historical interest such as cornerstone animal nesting sites, commem inscribed tablets, and simil during course of work.	or scientific s and contents, orative plaques,
	. 2	Give immediate notice to Own Representative and await Own Representative's written ins proceeding with work in this	er's tructions before
	.3	Relics, antiquities and item or scientific interest remai property.	
1.20 MEASUREMENT OF QUANTITIES	.1	Linear: Items which are meas or kilometre (km), such as p measured along centreline of unless otherwise shown on pl	ipes will be installation
	. 2	Area:	

metres (m).

.1 Longitudinal and transverse measurements for areas to be measured horizontally in

Town of Three Rivers	GENERAL INSTRUCTIONS	Section 01 10 10
Queens Road Sidewalk		Page 6
Upgrades		
Contract No. 242652.00		February 2025

.2 Longitudinal and transverse measurements for such items as topsoil and hydroseeding to be made on actual flat or sloped surface seeded or sodded.

.3 Volume:

- .1 In computing volumes of excavation, average end area method will be used unless otherwise directed by Owner's Representative in writing.
- .2 Term: cubic metres or C.M.
- .3 All volume measurements refer to in place measure unless specified elsewhere in specification.

.4 Mass:

- .1 Term "tonne" shall mean 1000 kg.
- .2 Materials which are specified for measurement by mass shall be weighed on scales approved by and at locations designated by Owner's Representative. Units used to haul material being paid for by mass shall bear legible identification numbers plainly visible to scale person as it approaches and leaves scale-house.

.5 Time:

. 1

.1 Unless otherwise provided for elsewhere or by written authority of Owner's Representative, hourly rental of equipment will be measured in actual working time and necessary travelling time of equipment within limits of project at an all-inclusive rate. Equip each unit of mobile equipment with an approved device to register hours of operation. Devices which only measure hours of running of motor will not be accepted. Cost for operator of equipment will be included in the hourly rate.

1.21 PERMITS/ AUTHORITIES

The Contractor shall obtain, and pay for, permits from authorities as required for all operations and construction. The Contractor shall also comply with all pertinent regulations of all authorities having jurisdiction over the work. The Contractor shall provide copies of all permits to the Owner prior to starting the work. The Contractor shall be responsible for obtaining

Town of Three Rivers	GENERAL INSTRUCTIONS	Section 01 10 10
Queens Road Sidewalk		Page 7
Upgrades		
Contract No. 242652.00		February 2025

all applicable permits, inspections and approvals required and shall pay all charges in connection therewith.

1.22 EQUIPMENT RENTAL .1 RATES

Upon written request, the Contractor will supply the Owner's Representative with a list of the rental equipment to be used on work beyond the scope of bid items. Equipment rental rates will be in accordance with current rates published by the PEI Department of Transportation, Infrastructure and Energy.

Town of Three Rivers	Project Particulars and	Section 01 29 00
Queens Road Sidewalk	Measurement	Page 1
Upgrades		
Contract No. 242652.00		February 2025

PART 1 - GENERAL

1.1 Pay Items

__.1

Sidewalk Construction:

- .1 Unit of Measurement: LINEAL METER (m), NUMBER (No.).
- .2 Method of Measurement: The measurement will be the length of sidewalk constructed measured along the centerline of the finished surface and the number of tactile warning devices installed.
- This item includes: locating and accommodating all existing infrastructure, for all costs to liaise with all utilities (Maritime Electric, Bell Aliant, Eastlink, Montague Sewer & Water Corporation) to locate the existing system(s), protect, and accommodate them during construction and maintain service to customers. Excavation of all materials including topsoil, gravels, and existing fill, to the depth(s) and location(s) shown on the drawings. The price shall include cutting, filling, placing, compacting and grading, proof rolling, geotechnical testing of base materials, shaping/grading, supply and placement of: select borrow, Class A gravel, and fine grading to achieve the cross slopes specified. The price shall also include reinforced concrete, shoulder material, ditch and swale construction, concrete testing and reporting, equipment, tools, labour, surveying and incidentals necessary to complete the work. The price includes all labour, equipment, materials, and payment of all fees required to complete the work.

.2 Concrete Curb & Gutter:

- .1 Unit of Measurement: LINEAR METRE (m).
- .2 Method of Measurement: Length of curb & gutter installed measured horizontally along the gutter line of the curb.
- .3 This item includes: all costs involved to layout, supply and place concrete to form curbs including slip form curbing machine, fabrication of new molds as required, finishing, concrete testing, and backfilling as specified.

Town of Three Rivers Queens Road Sidewalk	Project Particulars and Measurement	Section 01 29 00 Page 2
Upgrades		- 3 -
Contract No. 242652.00		February 2025

.3 Storm Sewer:

- .1 Unit of Measurement: LINEAL METER (m).
- .2 Method of Measurement: The measurement will be the horizontal length of completed pipeline in place measured along centreline of pipe through structures.
- This item includes: connecting to existing infrastructure, including repair of any existing infrastructure, excavating, trucking, sheeting and shoring, trench box, pumping and draining, backfilling, compacting, maintenance of surface level, disposal of surplus and unsuitable material, lowering into the trench; bringing the pipe into alignment; jointing, supply and installation of bar screens, and all other work and materials necessary for a complete installation. The price also includes the removal and off-site disposal of all abandoned storm infrastructure, and any other items deemed necessary to complete the work. The price includes all labour, equipment, materials, and payment of all fees required to complete the work.

.4 Precast Structures:

- .1 Unit of Measurement: EACH (No.).
- .2 This item includes: excavating, trucking, sheeting and shoring, trench box, pumping and draining, backfilling, compaction, maintenance of surface level, disposal of surplus and unsuitable material, fittings, catch basins including precast concrete, grade rings, watertight seals, gaskets, frames and covers, unshrinkable fill, and grouting, supplying and placing of bedding material, lowering into the trench; bringing the pipe into alignment; jointing, and all other work and materials necessary for a complete installation.

.5 Environmental Protection:

- .1 Unit of Measurement: EACH (No.) and LINEAR METRE (m).
- .2 This item includes: construct and maintain sediment control barriers, check dams and silt fence in locations determined by the contractor and as agreed to or

Town of Three Rivers Queens Road Sidewalk Upgrades	Project Particulars and Measurement	Section 01 29 00 Page 3	
Contract No. 242652.00		February 2025	
	directed by the consulta also include for the mul disturbed areas, removal build up from environmen their removal when grass established.	ching of all and disposal of silt stal controls and	
	Reinstatement: .1 Unit of Measurement: SQUARE METRE (M.2 Method of Measurement: the in-place of finished surface3 This item includes: select borrow, granular base course material, preparing edges of existing pavement/curbing, overlapping of asphalt joints including milling, place, spread and roll asphalt to the compacted thickness indicated on the Drawings. The price shall also include reinstatement of all grass, granular, asphand any other disturbed areas to a conditional equal to or better than that which existed before construction.		
PART 2 - PRODUCTS	.2 Method of Measurement method of volume of unstable the exposure of suitable confirmed by a topograph	t: CUBIC METRE (C.M.). ent: Average end area uitable material and e material as hic survey. : excavation and off- able material and select borrow the Engineer. No	
2.1 PRODUCTS	.1 Not Applicable		
PART 3 - EXECUTION			

3.1 EXECUTION .1 Not Applicable

Town of Three Rivers	SUBMITTAL PROCEDURES	Section 01 33 00
Queens Road Sidewalk		Page 1
Upgrades		
Contract No. 242652.00		February 2025

1.1 RELATED SECTIONS .1 Section 01 78 00 - Closeout Submittals.

1.2 SUBMITTAL

- .1 Submit to Owner's Representative for review requested submittals specified in various sections of the specifications, including shop drawings, samples, permits, compliance certificates, test reports, work management plans and other data required as part of the work.
- .2 Submit with reasonable promptness and in orderly sequence so as to allow for Owner's Representative's review and not cause delay in Work. Failure to submit in ample time will not be considered sufficient reason for an extension of Contract time and no claim for extension by reason of such default will be allowed.
- .3 Do not proceed with work until relevant submissions have been reviewed.
- .4 Present shop drawings, product data, samples and mock-ups in SI Metric units.
- .5 Where items or information is not produced in SI Metric units, provide soft converted values.
- .6 Review submittals prior to submission. Ensure that necessary requirements have been determined and verified and that each submittal has been checked and coordinated with requirements of Work and Contract Documents.
 - .1 Submittals not stamped, signed, dated and identified as to specific project will be returned unexamined by Owner's Representative and considered rejected.
- .7 Verify field measurements and affected adjacent Work are coordinated.
- .8 Notify Owner's Representative, in writing at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.

Town of Three Rivers	SUBMITTAL PROCEDURES	Section 01 33 00
Queens Road Sidewalk		Page 2
Upgrades		
Contract No. 242652.00		February 2025

- .9 Contractor's responsibility for errors, omissions or deviations in submission from requirements of Contract Documents is not relieved by Owner's Representative's review.
- .10 Submittal format: paper originals, or alternatively clear and fully legible photocopies of originals. Facsimiles are not acceptable, except in special circumstances pre-approved by Owner's Representative. Poorly printed non-legible photocopies or facsimiles will not be accepted and will be returned for resubmission.
- .11 Make changes or revision to submissions which Owner's Representative may require, consistent with Contract Documents and resubmit as directed by Owner's Representative. When resubmitting, identify in writing of any revisions other than those requested.
- .12 Keep one reviewed copy of each submittal document on site for duration of Work.

1.3 SHOP DRAWINGS AND PRODUCT DATA

.1 The term "shop drawings" means fabrication drawings, erection drawings, diagrams, illustrations, schedules, performance charts, technical product data, brochures, specifications, test reports installation instructions and other data which are to be provided by Contractor to illustrate compliance with specified materials and details of a portion of work.

·			
Town of Three Rivers Queens Road Sidewalk Upgrades		HEALTH AND SAFETY REQUIREMENTS	Section 01 35 28 Page 1
Contract No. 242652.00			February 2025
1.1 SUBMITTALS	.1	Submit to Owner's Representate the following documents, incl. 1 Site Specific Health an .2 Name and qualifications retained full time as H&S Co-	luding updates: d Safety Plan. of person to be
1.2 COMPLIANCE REQUIREMENTS	.1	Comply with the Occupational Health and Safety Act for the Province of Prince Edward Island, and the Occupational Health and Safety Act Regulations made pursuant to the Act.	
		Comply with Canada Labour Code Part II, and the Canada Occupational Safety and Health Regulations made under Part II of the Canada Labour Code.	
	.3	Observe and enforce construct measures required by: .1 National Building Code .2 Provincial Worker's Com .3 Municipal statutes and	of Canada; pensation Board;
	. 4	In event of conflict between of above authorities the most provision will apply. Should in determining the most strir requirement, Owner's Representative on the course of action followed.	t stringent a dispute arise ngent ntative will
	.5	Maintain Workers Compensation duration of Contract. Submit Standing to Owner's Represent request.	Letter of Good
1.3 RESPONSIBILITY	.1	Be responsible for health and persons on site, of property protection of persons and publications to work operations they may be affected by conductions.	and for olic circulating to extent that
	.2	Enforce compliance by all wor	

contractors and other persons granted access to work site with safety requirements of Contract Documents, applicable Federal,

Town of Three Rivers		HEALTH AND SAFETY	Section 01 35 28
Queens Road Sidewalk Upgrades		REQUIREMENTS	Page 2
Contract No. 242652.00			February 2025
		Provincial, and local stat and ordinances, and with s and Safety Plan.	=
1.4 SITE CONTROL AND ACCESS	.1	Control work site and entronstruction areas. 1 Delineate and isolate from other areas of site be appropriate means. 2 Post notices and sign and at other strategic loce entrance onto site to be reauthorized persons only. 3 Signage must be professionally in both official display internationally unsymbols.	e construction areas by use of mage at entry points cations identifying cestricted to essionally made, languages or
	.2	Approve and grant access to workers and authorized per all and authorized per all and access to workers and authorized per all and access to make and access to workers and authorized per construction and access to be observed on single access to be observed on single access to the	rsonsauthorized persons ruction areas and orientation to all ccess. Advise of and mandatory safety
	.3	Secure site at nighttime to protect against unautho	-
	. 4	Ensure persons granted accappropriate personal prote (PPE) suitable to work and .1 Provide such PPE to a who require access to perform approved purposes.	ective equipment d site conditions. authorized persons
1.5 PROTECTION	.1	Carry out work placing emp safety of the Public, Faci construction workers and p environment.	lity personnel,
	.2	Erect safety barricades, lon site to effectively del protect pedestrian and veh around and adjacent to working environment	ineate work areas,

safe working environment.

Town of Three Rivers		HEALTH AND SAFETY	Section 01 35 28
Queens Road Sidewalk		REQUIREMENTS Page 3	
Upgrades			3
Contract No. 242652.00			February 2025
	.3	Should unforeseen or peculiar hazard or condition become experformance of work, immediat measures to rectify the situadamage or harm. Advise Owner' verbally and in writing.	vident during cely take ation and prevent
1.6 FILING OF NOTICE	.1	File Notice of Project and ot Provincial authorities prior of Work.	
1.7 PERMITS	.1	Post on site permits, license certificates specified in sec	_
	.2	Where particular permit or concertificate cannot be obtained required stage of work, notification approval to proceed before caportion of work.	ed at the Ty Owner's d obtain his/her
1.8 HAZARD ASSESSMENTS	.1	Conduct site specific health hazard assessment before command during course of the work and hazards resulting from si weather conditions and work of the work has been changed by the when potential hazard or weak health and safety practices a the owner's Representative or by safety Representative.	mencing project c. Identify risks te conditions, perations. t when the scope Change Order and kness in current are identified by
	.2	Record results in writing and Health and Safety Plan.	l address in
	.3	Keep copy of all assessments	on site.
1.9 PROJECT/SITE CONDITION	.1	The following are known or porelated health, environmental hazards at site which must be managed if encountered during .1 Existing hazardous products againment	and safety properly course of work: ucts are:

equipment.

-			
Town of Three Rivers Queens Road Sidewalk Upgrades		EALTH AND SAFETY EQUIREMENTS	Section 01 35 28 Page 4
Contract No. 242652.00			February 2025
	.2	Above list shall not be const complete and inclusive of pot and safety hazards encountered Include above items into haza process.	tential health, ed during work.
1.10 HEALTH AND SAFETY MEETINGS	.1	Conduct a pre-construction he meeting. Have following personattendance: .1 Site Superintendent2 Health & Safety Site Conduction3 Owner's Representative.	ons in
1.11 SAFETY SUPERVISION AND INSPECTIONS	.1	Designate one person to be prall times, responsible for suand safety of the Work. 1 Person to be competent. Health and Construction Safet the Provincial Occupational Edet.	ipervising health in Occupational by as defined in
	.2	Assign responsibility, obligation authority to such designated work as deemed necessary for health and safety.	person to stop
	.3	Conduct regularly scheduled inspections of work site on a weekly basis. 1 Note deficiencies and retaken in a log book or diary.	e minimum bi-
	. 4	Keep inspection reports on si	.te.
1.12 TRAINING	.1	Ensure that all workers and of granted access to site are contrained and knowledgeable on: 1 Safe use of tools and ending a safe work practices and followed in carrying out work and site conditions and minuse.	empetently quipment. sonal protective procedures to be

.4 Site conditions and minimum safety rules

to be observed on site, as given at site

Town of Three Rivers Queens Road Sidewalk Upgrades		HEALTH AND SAFETY REQUIREMENTS	Section 01 35 28 Page 5
Contract No. 242652.00		orientation session.	February 2025
		orientation session.	
1.13 MINIMUM SITE SAFETY RULES	.1	Notwithstanding the required federal and provincial is regulations, the follows be considered minimum repulsed by all persons grant to fur site; the minimum required hat, safety footwear and to a site, near and damage. Maintain site in to the site of the site of the site, and the safety footwards and the safety footwards and the safety footwards and the site, near and damage. Maintain site in the site of the safety footwards and the safety footwards are safety footwards and the safety footwards and the safety footwards and the safety footwards and the safety footwards are safety footwards and the safety footwards and the safety footwards are safety footwards are safety footwards and the safety footw	health and safety ing safety rules shall equirements to be ranted site access: etective equipment nction and task on rements being hard d eye protection. unsafe activity or miss accident, injury idy condition.
	.2	Brief workers on site sa	afety rules.
1.14 ACCIDENT REPORTING	.1	in the Canadian Dictional 1987, published by the Canadian Pictional 1987, published by the Canadian Englished By The Canad	by Provincial Health Act and dedical aid as defined ary of Safety Terms- Canadian Society of .E) as follows: Injury: any minor dedical treatment was cost of which is ' Compensation Board which the injury was require notification ation Board or other as as stipulated by regulations.
	.2	Send written report to (for all above cases.	Owner's Representative
1.15 TOOLS AND EQUIPMENT SAFETY	.1	Routinely check and main and machinery for safe of	
	.2	Conduct checks as part of inspections. When request that checks and maintenant	sted, submit proof

Town of Three Rivers Queens Road Sidewalk Upgrades		HEALTH AND SAFETY REQUIREMENTS	Section 01 35 28 Page 6
Contract No. 242652.00			February 2025
		out.	
	.3	Tag and immediately remove found faulty or defective	
1.16 HAZARDOUS PRODUCTS	.1	Comply with requirements Hazardous Materials Info	
	.2	Keep MSDS data sheets for delivered to site. Post of to Owner's Representative	on site. Submit copy
1.17 CONFINED SPACES	.1	Carry out work in confine compliance with: .1 Provincial Occupati Health Regulations and; .2 Canada Occupational Regulations (COSH) made u Labour Code - Part II.	onal Safety and Safety and Health
	.2	Conduct hazard assessment Safety Plan before enter	
1.18 POSTING OF DOCUMENTS	.1	Post on site safety docur stipulated by Authorities and as specified herein. visible location.	s having jurisdiction
1.19 SITE RECORDS	.1	Maintain on site a copy of safety documentation and be produced as part of the from authorities having	reports specified to ne work and received
	.2	Upon request, make availant Representative and to other representative for review directed by Owner's Representations.	ner authorized safety v. Provide copy when
1.20 NON-COMPLIANCE AND DISCIPLINARY MEASURES	.1	Immediately address and c safety violations and nor	

Town of Three Rivers Queens Road Sidewalk Upgrades Contract No. 242652.00		NVIRONMENTAL ROTECTION PROCEEDURES	Section 01 35 44 Page 1 February 2025
1.1 REFERENCES	.1	WHMIS: Workplace Hazardous M Information System, Health C	
	.2	Transportation of Dangerous Transport Canada, updated 20	
	.3	MBCA: Migratory Birds Conven Environment Canada, 1994.	tion Act,
	. 4	Canadian Coast Guard Regulat of Fisheries and Oceans Cana	-
	.5	Canadian Shipping Act, Trans	port Canada,
	.6	AWPA: American Wood Preserve	r Association
1.2 DEFINITIONS	.1	Hazardous Material: Product, organism that is used for it purpose; and that is either or a material that may cause to the environment or advers of persons, animals, or plan released into the environmen	s original dangerous goods adverse impact ely affect health t life when
	.2	Wetlands: land where the wat near or above the surface or saturated for a long enough such features as wet-altered tolerant vegetation. Wetland wetlands or "peatlands," and or mineral soil areas that a excess water but produce lit	which is period to promote soils and water s include organic mineral wetlands re influenced by
	.3	Watercourse: refers to the b river, stream, lake, creek, estuary or salt-water body t water for at least part of e	pond, marsh, hat contains
	. 4	Alien species: refers to a subspecies introduced outsid distribution whose establish threaten ecosystems, habitat with economic or environment	e its normal ment and spread s, or species
	.5	Buffer zone: a vegetated lan watercourses from adjacent l refers to the land adjacent	and uses. It

Town of Three Rivers	ENVIRONMENTAL	Section 01 35 44
Queens Road Sidewalk	PROTECTION PROCEEDURES	Page 2
Upgrades		
Contract No. 242652.00		February 2025
	such as streams, rivers, lake oceans, and wetlands, include floodplain and the transition the watercourse and the dries.	ding the onal lands between
1.3 TRANSPORTATION .	Transport hazardous material waste in compliance with Fed Transportation of Dangerous	deral
	Do not overload trucks when Secure contents against spil	_
	Maintain trucks clean and franch and other foreign matter.	ee of mud, dirt
	Avoid potential release of cany foreign matter onto high access routes used for the Warren when hauling dredged mathematical hazardous materials. Immediately spillage and soils.	nways, roads and Nork. Take extra Aterial and other
1.4 HAZARDOUS . MATERIAL HANDLING	Handle and store hazardous min accordance with WHMIS prorequirements.	
	Store all hazardous liquids manner to prevent their spil environment.	
	Maintain written inventory of materials kept on site. List quantity and storage date.	
	4 Keep MSDS data sheets on sit	e for all items.
1.5 PETROLEUM, OIL AND LUBRICANTS	Comply with Federal and Proving regulations, codes and guide storage of fuel and petroleusite.	elines for the
•	No fuel or petroleum product on site. Do not fuel or lubr within this 30 metre buffer approval from Owner's Repres acceptable location on site and equipment service.	ricate equipment zone. Obtain sentative of

Town of Three Rivers	ENVIRONMENTAL	Section 01 35 44
Queens Road Sidewalk	PROTECTION PROCEEDURES	Page 3
Upgrades		
Contract No. 242652.00		February 2025

- .3 Do not dump petroleum products or any other deleterious substances on ground or in the water.
- .4 Be diligent and take all necessary precautions to avoid spills and contaminate the soil and water (both surface and subsurface) when handling petroleum products on site and during fueling and servicing of vehicles and equipment.
- .5 Maintain on site appropriate emergency spill response equipment consisting of at least one 250-litre (55 gallon) overpack spill kit for containment and cleanup of spills.
- .6 Maintain vehicles and equipment in good working order to prevent leaks on site.
- .7 In the event of a petroleum spill, immediately notify the Owner's Representative and the PEI Department of Environment. Perform clean-up in accordance with all regulations and procedures stipulated by authority having jurisdiction.

1.6 DISPOSAL OF WASTES

- .1 Do not bury rubbish, demolition debris and waste materials on site.
- .2 Dispose and recycle demolition debris and waste materials.
- .3 Do not dispose of hazardous waste, volatile materials (such as mineral spirits, paints, thinners etc.) and petroleum products into waterways, storm or sanitary sewers or in waste landfill sites.
- .4 Dispose of hazardous waste in accordance with applicable federal and provincial laws, regulations, codes and guidelines.
- .5 Any construction, contaminated soil or demolition debris will be disposed of in a Provincially approved manner (Either a permit or receipts for tippage must be submitted to the Owner's representative to verify that the material was disposed of in a provincially

Town of Three Rivers	ENVIRONMENTAL	Section 01 35 44
Queens Road Sidewalk	PROTECTION PROCEEDURES	Page 4
Upgrades		
Contract No. 242652.00		February 2025

approved manner).

1.7 VEGETATION

- Work should be scheduled to avoid periods of heavy precipitation. Short-term erosion and sediment control measures (i.e. silt fence, straw bales, temporary matting, geotextile filter fabric) must be installed to prevent runoff from entering any adjacent waterway. These structures will remain in place until natural vegetation has been established.
- .2 Fill material used in construction must be clean and non-toxic (free from fuel, oil, grease and/or contaminates).
- .3 Any exposed soil area must be minimized by limiting the area that is exposed at one time and by limiting the time that any one area is exposed. All stockpiled material must be covered and/or dyked to prevent erosion or silty runoff from leaving the site. Exposed soil should be replanted or sodded to ensure soil stabilization.
- .4 Avoid disturbance of vegetation and natural features where possible. All work is to be confined to the site limits delineated and/or directed by the Owner's Representative.
- .5 Restore disturbed areas as close as possible to natural conditions. Backfill excavate, grade and contour soil, replace topsoil, fertilize and reseed with approved seed mixture.
- .6 No staging of materials/equipment will take place on any environmentally sensitive area. All staging area sites, if required, will be determined by the Owner's Representative.
- .7 If materials of potential historical or cultural interest are encountered, work will cease at that location and the Owner's Representative will be notified.

1.8 SOCIOECONOMIC RESTRICTIONS

.1 Abide by municipal and provincial regulations for any restrictions on work performed during the night time and on flood lighting of the site. Obtain applicable permits.

Town of Three Rivers Queens Road Sidewalk		INVIRONMENTAL PROTECTION PROCEEDURES	Section 01 35 44 Page 5
Upgrades Contract No. 242652.00			February 2025
	.2	Place flood lights in oppo	-
	• -	adjacent residential and k	
	.3	Equip equipment and machine designed mufflers to reduce lowest possible level. Mai good operating condition a	ce noise on site to intain mufflers in
	. 4	Adequate signage and safet supplied during transports and equipment to the harbo	ation of materials
1.9 WATER QUALITY	.1	Maintenance of equipment ron a regular basis.	nust be carried out
	.2	The construction material non-toxic (free of fuel, of any contaminants).	
	.3	Remove any accidental releasite prior to solidificate	
	. 4	Ensure concrete trucks are release any material during site.	
	.5	Do not discharge residual concrete on site. Do not we concrete vehicles on site dumping and cleaning operations of the concrete plant according to approved practices/regulates.	wash and clean Carryout all ations at the to all provincially
	.6	Follow any sediment and enand an emergency response the Owner's Representative	plan provided by
1.10 BIRD AND BIRD HABITAT	.1	Abide by the Migratory Bin (MBCA) in regards to the particle migratory birds, their egg young encountered on site vicinity.	protection of gs, nests and their

.2 Minimize disturbance to all birds on site and adjacent areas during the entire course of

Town of Three Rivers	1	ENVIRONMENTAL	Section 01 35 44
Queens Road Sidewalk		PROTECTION PROCEEDURES	Page 6
Upgrades			-
Contract No. 242652.00			February 2025
		the Work.	
	.3	During night time work, posi in opposite direction of nea habitat.	_
	. 4	Do not use natural previousl areas of the site to conduct	_
	.5	Ensure that food scraps and left at the work site.	garbage are not
1.11 AIR QUALITY	.1	Keep airborne dust and dirt the work on site to an absol	_
	.2	Apply dust control measures lots and work areas.	to roads, parking
	.3	Spray surfaces with water or environmentally approved pro purposely suited equipment o apply in sufficient quantity provide effective result and control during the entire co	duct. Use r machinery and and frequency to continued dust
	. 4	Do not use oil or any other products for dust control.	petroleum
	.5	All construction equipment m with standard and well-maint suppression devices. Construmust respect appropriate timuse smaller, less disturbing possible.	ained noise ction activities e restriction and
1.12 FIRES	.1	Fires and burning of rubbish permitted.	on site is not

Town of Three Rivers Queens Road Sidewalk Upgrades		TESTING AND QUALITY CONTROL	Section 01 45 00 Page 1
Contract No. 242652.00			February 2025
1.1 RELATED SECTIONS	.1	Section 01 33 00 Submitta	al Procedures
1.2 INSPECTION	.1	Give timely notice requestions designated for spections or approvals Representative or by insphaving jurisdiction.	ial tests, by Owner's
	.2	In accordance with the Ge Owner's Representative ma Work to be examined if Wo be not in accordance with	ay order any part of ork is suspected to
	.3	If Contractor covers or power work designated for spections or approvals uncover Work until particulates have been fully and completed and until such Representative gives permanents.	ial tests, before such is made, cular inspections or d satisfactorily time as Owner's
	. 4	Pay costs to uncover and disturbed by inspections	
1.3 TESTING	1	The Contractor shall retaineer to carry out the outlined in the specifical	e required testing as
	.2	Tests on materials, as spections of the Specifical responsibility of the Constipulated otherwise. 1 Provide all necessal equipment and qualified patests.	ations is the ntractor except where ary instruments,
		At completion of tests, to fully documented tests respective. Submit in Section 01 33 00. .1 Obtain additional confideration of a complete set in each	eports to the Owner's n accordance with copies for inclusion

. 4

manuals specified in Section 01 78 00.

Representative, at the discretion of the Owner's Representative. The costs of these

Unspecified tests may also be made by Owner's

Town of Three Rivers	г	ESTING AND QUALITY	Section 01 45 00
Queens Road Sidewalk Upgrades		CONTROL	Page 2
Contract No. 242652.00			February 2025
	.5	tests will be paid for by th Representative. Where tests or inspections r accordance with contract req Contractor shall pay costs f tests and inspections incurr Representative as required t acceptability of corrected w	eveal work not in uirements, or additional ed by Owner's o verify
1.4 INDEPENDENT INSPECTION AGENCIES	.1	When specified or directed, Representative samples of ma required quantities, to Test testing purposes. Submit wit promptness and in an orderly not to cause delay in Work.	terials, in ing Agency for h reasonable
	.2	Provide labour and facilitie handle and deliver samples.	s to obtain,
	.3	Provide sufficient space on Agency's exclusive use to st cure test samples.	
1.5 ACCESS TO WORK	.1	Facilitate Owner's Represent Work. If part of Work is bei locations other than constru preparations to allow access whenever it is in progress.	ng fabricated at ction site, make
	.2	Furnish labour and facility to the work being inspected	_
	.3	Co-operate to facilitate suctests.	h inspections and
1.6 REJECTED WORK	.1	Remove and replace defective result of poor workmanship, or damaged products and whet in Work or not, which has be Owner's Representative as fa to Contract Documents.	use of defective her incorporated en identified by
	.2	Make good damages to new con finishes resulting from remo replacement of defective wor	val or

Town of Three Rivers	TRAFFIC REGULATION	Section 01 55 26
Queens Road Sidewalk		Page 1
Upgrades		
Contract No. 242652.00		February 2025

PART 1 - GENERAL

This section is to provide traffic control 1.1 DESCRIPTION . 1 pursuant to Section 6 of the Provincial Roads Act as stipulated in the PEI Temporary Workplace Traffic Control Manual (TWTCM). General Instructions - Section 01 10 10 1.2 RELATED WORK . 1 . 2 Health and Safety Requirements - Section 01 35 28 1.3 REFERENCE . 1 Regulate traffic in accordance with the Roads Act (Prince Edward Island) as stipulated in STANDARD the TWTCM distributed by the Prince Edward Island Department of Transportation and Infrastructure. The Owner's Representative reserves the right . 2 to direct the contractor to reduce either the number or length of traffic control work areas during peak traffic volumes or when cumulative delays exceed the specified maximum. 1.4 PROTECTION OF . 1 Comply with requirements of Acts, Regulations and By-Laws in force for regulation of PUBLIC TRAFFIC traffic or use of roadways upon or over which it is necessary to carry out work or haul materials or equipment. .2 When working on travelled way: Place equipment in position to present

- .1 Place equipment in position to present minimum of interference and hazard to travelling public.
- .2 Keep equipment units as close together as working conditions will permit and preferably on same side of travelled way.
- .3 Do not leave equipment on travelled way overnight.
- .3 Do not close any lanes of roadway without approval of Owner's Representative. Before

Town of Three Rivers	TRAFFIC REGULATION	Section 01 55 26
Queens Road Sidewalk		Page 2
Upgrades		
Contract No. 242652.00		February 2025

rerouting traffic, erect suitable signs and devices in accordance with instructions contained in the TWTCM. Provide sufficient crushed gravel to ensure a smooth riding surface during work.

- .4 Keep travelled way well graded, free of pot holes and of sufficient width that required number of lanes of traffic may pass.
- .5 Limit construction to maintain at least one lane of traffic at all times.
- .6 When directed by Owner's Representative, provide well graded, detours or temporary roads to facilitate passage of traffic around restricted construction area. Provide and maintain signs and lights and maintain roadway.
- .7 Provide and maintain reasonable road access and egress to property fronting along or in vicinity of work under Contract unless approved otherwise by Owner's Representative.
- .8 Contractor must make provisions to transport cyclists and their bicycles thru activity work zones while pilot vehicle operations are in place.

1.5 INFORMATIONAL & WARNING DEVICES

- .1 Provide and maintain signs and other devices required to indicate construction activities or other temporary and unusual conditions resulting from project work which may require road user response.
- .2 All traffic signs are to be bilingual or symbolic and shall be Level 1 reflectivity.
- .3 Supply and erect signs, declinators, barricades and miscellaneous warning devices as specified in TWTCM.
- .4 Place signs and other devices in locations recommended in the TWTCM.
- .5 The contractor shall provide an Accredited Sign Supervisor, who has successfully completed the Temporary Workplace Traffic

Town of Three Rivers	TRAFFIC REGULATION	Section 01 55 26
Queens Road Sidewalk		Page 3
Upgrades		
Contract No. 242652.00		February 2025

Control Training Course, to be on site at all times when active construction is taking place. The Accredited Traffic Control Sign Supervisor will be responsible to supervise the placement and dismantling of all temporary condition signs and devices that indicate to the road user that highway construction activity exist and also to ensure that proper traffic control procedures are carried out in accordance with the TWTCM. The Accredited Sign Supervisor is considered part of the contractors supervision and administration staff and compensation the provision this individual is considered incidental to the work.

- .6 A traffic control plan must be approved by the engineer prior to commencing any work.
- .7 Continually maintain traffic control devices in use by:
 - .1 Checking signs daily for legibility, damage, suitability and location. Clean, repair or replace to ensure clarity and reflectance.
 - .2 Removing or covering signs which do not apply to conditions existing from day to day.

1.6 CONTROL OF PUBLIC .1 TRAFFIC

Provide traffic control personnel who have a valid provincial license and trained in accordance with and properly equipped as specified in the TWTCM, in following situations:

- .1 When public traffic is required to pass working vehicles or equipment which may block all or part of travelled roadway.
- .2 When it is necessary to institute one way traffic system through construction area or other blockage where traffic volumes are heavy, approach speeds are high and traffic signal system is not in use.
- .3 When workers or equipment are employed on travelled way over brow of hills, around sharp curves or at other locations where oncoming traffic would not otherwise have adequate warning.
- .4 Where temporary protection is required while other traffic control devices are being erected or taken down.

Town of Three Rivers Queens Road Sidewalk Upgrades Contract No. 242652.00	TRAFFIC REGULATION	Section 01 55 26 Page 4 February 2025
CONTRACT NO. 242032.00	.5 For emergency protect traffic control devices a available6 In situations where for workers, working equitraffic is not provided becontrol devices.	ction when other re not readily complete protection pment and public
	.2 All Traffic Control Perso equipped with portable ra range to ensure continuou within the traffic contro	dios of sufficient s communication
	.3 All construction vehicles accordance with and are s control restrictions and on the project.	ubject to traffic
1.7 TRAFFIC MANAGEMENT PLAN REQUIREMENT	controls will be used. 3 The required traffic meas included in the construct detailed construction seq Management Plan will be r construction. On-going in communications will be ma	are summarized as will be maintained a contract res will not be ceptional s and one-way traffic ures will be ion contract. A ruencing and Traffic equired prior to formation and
	the construction period.	

Town of Three Rivers Queens Road Sidewalk Upgrades	С	LOSEOUT PROCEDURES	Section 01 77 00 Page 1
Contract No. 242652.00			February 2025
PART 1 - GENERAL			
1.1 SECTION INCLUDES	.1	Administrative procedures prinspection and acceptance of Representative.	_
1.2 RELATED SECTIONS	.1	Closeout Submittals: Section	01 78 00
1.3 INSPECTION AND DECLARATION	.1	Contractor's Inspection: Cooperform, in concert with subinspection and check of all and correct deficiencies, deand perform outstanding item complete work in conformance Documents. 1 Notify Owner's Representation have been rectificated deemed to be complete and Owner's Representative's instance completed work.	contractors, an Work. Identify fects, repairs s as required to with Contract stative in writing actor's ed and that Work ready for
	.2	Owner's Representative's Instance Accompany Owner's Representations substantial and final inspect Work. 1 Address defects, faults items of work identified by .2 Advise Owner's Representations and deficiencies identified have	tive during all tions of the and outstanding such inspections.

- .3 Note that Owner's Representative will not issue a Certificate of Substantial Performance of the work until such time that Contractor performs following work and turns over the specified documents:
 - .1 Compliance certificates from applicable
 authorities;
 - .2 Reports resulting from designated tests;
- .4 Correct all discrepancies before Owner's Representative will issue the Certificate of Completion.

ENI	OF	SECTION

Town of Three Rivers Queens Road Sidewalk Upgrades Contract No. 242652.00	С	LOSEOUT SUBMITTALS	Section 01 78 00 Page 1 February 2025
PART 1 - GENERAL			
1.1 RELATED REQUIREMENTS	.1	Section 01 33 00 - Submittal	Procedures.
1.2 ACTION AND INFORMATIONAL SUBMITTALS	.1	Provide submittals in accordance of 33 00 - Submittal Procedure	
SUBMITTALS	.2	Two weeks prior to Substantial Performance the Work, submit to the Consultant, five final copies of operating and maintenance manuals in English.	
	.3	Provide spare parts, maintena and special tools of same qua manufacture as products provi	ality and
	. 4	Provide evidence, if requeste source and quality of product	
1.3 FORMAT	.1	Organize data as instructiona	ıl manual.
	.2	Binders: vinyl, hard covered, loose leaf 219 x 279 mm with pockets.	
	.3	When multiple binders are used into related consistent group. 1 Identify contents of each spine.	oings.
	. 4	Cover: identify each binder we printed title 'Project Record list title of project and identity matter of contents.	d Documents';
	.5	Arrange content by systems, unumbers and sequence of Table	
	.6	Provide tabbed fly leaf for e product and system, with type product and major component pequipment.	ed description of

Town of Three Rivers Queens Road Sidewalk Upgrades		CLOSEOUT SUBMITTALS	Section 01 78 00 Page 2
Contract No. 242652.00			February 2025
	.7	Text: manufacturer's printed typewritten data.	data, or
	.8	Drawings: provide with reinfoldinder tab1 Bind in with text; fold to size of text pages.	
1.4 CONTENTS - PROJECT RECORD	.1	Table of Contents for Each Vetitle of project;	olume: provide
DOCUMENTS	-	.1 Date of submission; nam .2 Addresses, and telephon Consultant and Contractor wir responsible parties3 Schedule of products an indexed to content of volume	e numbers of th name of d systems,
	.2	For each product or system: .1 List names, addresses a numbers of subcontractors and including local source of supreplacement parts.	d suppliers,
	.3	Product Data: mark each sheed specific products and compondata applicable to installationapplicable information.	ent parts, and
	. 4	Drawings: supplement product illustrate relations of compequipment and systems, to she flow diagrams.	onent parts of
	.5	Typewritten Text: as required product data1 Provide logical sequence for each procedure, incorporation manufacturer's instructions.	e of instructions
1.5 EQUIPMENT AND SYSTEMS	.1	For each item of equipment as include description of unit component parts. 1 Give function, normal contaracteristics and limiting. 2 Include performance cur	peration conditions.

Town of Three Rivers	CLOSEOUT SUBMITTALS	Section 01 78 00
Queens Road Sidewalk		Page 3
Upgrades		3
Contract No. 242652.00		February 2025

- engineering data and tests, and complete nomenclature and commercial number of replaceable parts.
- .2 Panel board circuit directories: provide electrical service characteristics, controls, and communications.
- .3 Include installed colour coded wiring diagrams.
- .4 Operating Procedures: include start-up, break-in, and routine normal operating instructions and sequences.
 - .1 Include regulation, control, stopping, shut-down, and emergency instructions.
 - .2 Include summer, winter, and any special operating instructions.
- .5 Maintenance Requirements: include routine procedures and guide for trouble-shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.
- .6 Provide servicing and lubrication schedule, and list of lubricants required.
- .7 Include manufacturer's printed operation and maintenance instructions.
- .8 Include sequence of operation by controls manufacturer.
- .9 Provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.
- .10 Provide installed control diagrams by controls manufacturer.
- .11 Provide Contractor's co-ordination drawings, with installed colour coded piping diagrams.
- .12 Provide charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.
- .13 Provide list of original manufacturer's spare parts, current prices, and recommended

Town of Three Rivers Queens Road Sidewalk	CLOSEOUT SUBMITTALS	Section 01 78 00 Page 4
Upgrades Contract No. 242652.00		February 2025
	quantities to be maintaine	ed in storage.

1.6 DELIVERY, STORAGE AND HANDLING

- .1 Store spare parts, maintenance materials, and special tools in manner to prevent damage or deterioration.
- .2 Store in original and undamaged condition with manufacturer's seal and labels intact.
- .3 Store components subject to damage from weather in weatherproof enclosures.
- .4 Store paints and freezable materials in a heated and ventilated room.
- .5 Remove and replace damaged products at own expense and for review by Consultant.

1.7 WARRANTIES AND BONDS

- .1 Develop warranty management plan to contain information relevant to Warranties.
- .2 Submit warranty management plan, 30 days before planned pre-warranty conference, to Consultant approval.
- .3 Warranty management plan to include required actions and documents to assure that Departmental Representative DCC Representative Consultant receives warranties to which it is entitled.
- .4 Provide plan in narrative form and contain sufficient detail to make it suitable for use by future maintenance and repair personnel.
- .5 Assemble approved information in binder, submit upon acceptance of work and organize binder as follows:
 - .1 Separate each warranty or bond with index tab sheets keyed to Table of Contents listing.
 - .2 List subcontractor, supplier, and manufacturer, with name, address, and telephone number of responsible principal.
 - .3 Obtain warranties and bonds, executed in duplicate by subcontractors, suppliers, and manufacturers, within ten days after

Town of Three Rivers	CLOSEOUT SUBMITTALS	Section 01 78 00
Queens Road Sidewalk		Page 5
Upgrades		
Contract No. 242652.00		February 2025

- completion of applicable item of work.
- .4 Verify that documents are in proper form, contain full information, and are notarized.
- .5 Co-execute submittals when required.
- .6 Retain warranties and bonds until time specified for submittal.
- .6 Except for items put into use with Owner's permission, leave date of beginning of time of warranty until Date of Substantial Performance is determined.
- .7 Conduct joint 9 month warranty inspection, measured from time of acceptance, by Consultant.
- .8 Include information contained in warranty management plan as follows:
 - .1 Roles and responsibilities of personnel associated with warranty process, including points of contact and telephone numbers within the organizations of Contractors, subcontractors, manufacturers or suppliers involved.
 - .2 Listing and status of delivery of Certificates of Warranty for extended warranty items, to include pumps, motors, transformers, and commissioned systems.
 - .3 Provide list for each warranted equipment, item, feature of construction or system indicating:
 - .1 Name of item.
 - .2 Model and serial numbers.
 - .3 Location where installed.
 - .4 Name and phone numbers of manufacturers or suppliers.
 - .5 Names, addresses and telephone numbers of sources of spare parts.
 - .6 Warranties and terms of warranty: include one-year overall warranty of construction. Indicate items that have extended warranties and show separate warranty expiration dates.
 - .7 Cross-reference to warranty certificates as applicable.
 - .8 Starting point and duration of warranty period.
 - .9 Summary of maintenance procedures required to continue warranty in force.

Town of Three Rivers Queens Road Sidewalk	С	CLOSEOUT SUBMITTALS	Section 01 78 00 Page 6
Upgrades			
Contract No. 242652.00			February 2025
		.10 Cross-Reference pertinent Operation a manuals11 Organization, not numbers of persons to service12 Typical response time expected for variequipment4 Contractor's plans for month post-construction was equipment covered by extend5 Procedure and status equipment covered by extend6 Post copies of instruselected pieces of equipment is critical for warranty and reasons.	ames and phone call for warranty etime and repair ious warranted at tendance at 9 rranty inspections. of tagging of ded warranties. ctions near at where operation
	.9	Respond in timely manner to notification of required co warranty repair work.	
	.10	Written verification to for instructions1 Failure to respond win Departmental Representative Representative Consultant action against Contractor.	ll be cause for the
1.8 WARRANTY TAGS .1	.1	Tag, at time of installation item. Provide durable, oil resistant tag approved by (and water
	.2	Attach tags with copper win	
		Leave date of acceptance un accepted for occupancy.	ntil project is
	. 4	Indicate following information of the state	

. 4

.5

.6

. 7

Contract number.

Warranty period.
Inspector's signature.

Construction Contractor.

Town of Three Rivers	C	CLOSEOUT SUBMITTALS	Section 01 78 00
Queens Road Sidewalk			Page 7
Upgrades			1 4 9 5 7
			T 1 000F
Contract No. 242652.00			February 2025
PART 2 - PRODUCTS			
		<u>.</u>	
2.1 NOT USED	.1	Not Used.	
PART 3 - EXECUTION			
IANI S EXECUTION			
3.1 NOT USED	. 1	Not Used.	
J.1 NO1 00ED	• -	1100 0000.	

Town of Three Rivers Queens Road Sidewalk Upgrades	DEMOLITION, REMOVALS AND MODIFICATIONS	Section 02 41 10 Page 1
Contract No. 242652.00		February 2025

PART 1 - GENERAL

1.1 WORK INCLUDED

. 1

- This section specifies the requirements for furnishing all materials, labour, tools and equipment and performing all operations necessary to complete the removals, relocations and modifications. The work generally includes, but is not limited to removal of:
- .1 Concrete sidewalks, asphalt and concrete curbs, trees, and other existing items/materials required to complete the work as described on the drawings and as specified.
- .2 Gravel and asphalt as indicated on the drawings and as required to complete the work.
- .3 Concrete slabs and foundations as indicated on the drawings and as required to complete the work.
- .4 Grass, topsoil, and other materials as indicated on the drawings and as required to complete the work.
- .5 The existing businesses will remain in operation throughout construction. Design and implement plan to prevent construction from negatively impacting business operation.

 Coordinate with the Consultant/Owner as required.

1.2 RELATED WORK

- .1 Earthwork: Division 31
- .2 Exterior Improvements: Division 32

1.3 REFERENCES

- Canadian Standards Association (CSA).
 CSA S350-M1980 (R2003), Code of Practice for Safety in Demolition of Structures.
- .2 National Building Code of Canada-2015, Division B, Part 8.

1.4 EXISTING CONDITIONS

.1 Items to be demolished or removed are to be based on their existing conditions.

Town of Three Rivers Queens Road Sidewalk Upgrades	DEMOLITION, REMOVALS AND MODIFICATIONS	Section 02 41 10 Page 2
Contract No. 242652.00		February 2025

1.5 PROTECTION

- .1 Prevent movement, settlement or damage of adjacent structures and services. Provide bracing and shoring as required. Repair damage caused by demolition as directed by Consultant.
- .2 Support affected structures and, if safety of structure being demolished or adjacent structures or services appears to be endangered, cease operations and notify Consultant.
- .3 Protect existing items designated to remain and items designated for salvage. In event of damage to such items, immediately replace or make repairs to approval of the Consultant and at no cost to Owner.
- .4 Keep noise, dust and inconvenience to occupants and neighbours to a minimum.
- .5 Provide temporary dust screens, covers and other protection as required. Refer to Division 01.
- .6 Prevent debris from blocking surface drainage, process, mechanical and electrical systems which must remain in operation.
- .7 Do not allow demolition work to adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution. If demolition affects above areas in the opinion of the Consultant the Contractor is to remediate affected areas at no cost to the Contract.
- .8 Fires and burning of waste or materials is not permitted on site.
- .9 Do not bury waste or materials on site.
- .10 Prevent extraneous materials from contaminating air beyond application area, by providing temporary enclosures during demolition work.
- .11 Cover or wet down dry materials and waste to prevent blowing dust and debris.
- .12 Protect trees, plants and foliage on site and adjacent properties.

1.6 REGULATORY REQUIREMENTS

.1 Perform demolition work in compliance with applicable Federal, Provincial and Municipal Regulations.

Town of Three Rivers Queens Road Sidewalk Upgrades	DEMOLITION, REMOVALS AND MODIFICATIONS	Section 02 41 10 Page 3
Contract No. 242652.00		February 2025

PART 2 - PRODUCTS

2.1 NOT USED .1 Not applicable.

PART 3 - EXECUTION

3.1 PREPARATION

- .1 Inspect site with Consultant and verify extent and location of items designated for removal, disposal, recycling, salvage, relocation and items to remain.
- .2 Locate and protect utilities. Preserve active utilities traversing site in operating condition.
- .3 Maintain wiring to existing equipment designated to remain.
- .4 Disconnect and remove all existing services which are designated to be removed. Disconnect and remove all redundant wiring back to source.
- .5 Where partitions or support structures are to be removed, disconnect equipment and electrical services to items on the partition and make wiring safe. Where pipe work, conduit or wiring passes through partitions to be removed, maintain the service to all devices to remain by extending piping and wiring or re-routing as necessary. Relocate equipment and electrical devices found where partitions or support structures are to be removed and the components are designated to remain.
- .6 Test existing equipment, electrical devices and wiring, which are to be reused for proper operation and advise Consultant of any device malfunction. Repair or replace any device which is damaged in the process of reinstallation at no additional cost to the Contract.
- .7 Remove any existing equipment from wells prior to decommissioning the well. Fill the well with alternating layers of sand and bentonite or cement to the ground surface. The thickness of bentonite or cement layers shall not be less than 300mm and the sand layers shall not be more than 300mm. Cut and remove the well casing to 900mm below finish grade.

Town of Three Rive Queens Road Sidewa Upgrades	_	DEMOLITION, REMOVALS AND MODIFICATIONS	Section 02 41 10 Page 4	
Contract No. 242652.00			February 2025	
3.1 PREPARATION (cont'd)	.8	Decommission on site wastewa disconnecting and plugging t and outlet pipelines outside Reconnect the buildings exis newly constructed sewer serv	he septic tank inlet the tank wall. ting sewer line to the	
	.9	Have a licensed septic haule removing all wastewater, slu the septic tank and dispose the bottom and walls of the chlorine bleach, remove the backfill and compact the tan to match existing grade.	dge and scum. Remove off site or disinfect tank with 4 litres of tank top cover and	
	.10	Notify and obtain approval of system owners before starting removals.		
	.11	Include any and all charges coordinating the work my Mar Ltd. or any utility affected Contract Price.	itime Electric Company	
3.2 SAFETY CODE	1	Observe construction safety many case of conflict or distringent requirement will approximately	t limited to the cy Act, provided that iscrepancy the more	
	.2	Store volatile waste in close remove from premises daily.	ed containers and	
.3		WHMIS: .1 Comply with requirements Hazardous Materials Information regarding use, handling, stort hazardous materials; and regard provision of material safety to Labour Canada and Health (ion System (WHMIS) rage, and disposal of arding labelling and data sheets acceptable	
	. 4	Exercise pollution and environmeasures as specified and as		

At the end of each day's work, leave work in safe

Work.

and stable condition.

.5

Town of Three Rivers Queens Road Sidewalk Upgrades		DEMOLITION, REMOVALS AND MODIFICATIONS	Section 02 41 10 Page 5
Contract No. 242652.	00		February 2025
3.3 REMOVAL FROM SITE	.1	Stockpiling of demolition debris is temporary basis as approved by the	-
	.2	Removal of temporary stockpiled mat required, if it is deemed by the co interfere with operations of Owner	onsultant, to
	.3	Complete demolition in a manner to Keep materials wetted as directed by	
3.4 SITEWORK ITEMS	.1	Remove items as indicated. Do not designated to remain in place.	listurb items
3.5 PROCESS/ MECHANICAL ITEMS	.1	Where applicable, equipment which is to be sa and turned over to the Owner is identified or Drawing.	
3.6 SALVAGE AND DISPOSAL OF MATERIALS	.1	Items not designated for reuse or a be disposed off site at authorized Confirm with the Owner prior to disthe Owner wishes to retain said it	facilities. sposal, in case
	.2	Salvage of the asphalt and granula becomes the property of the contra	
	.3	Pay all costs and fees associated w from site and disposal.	ith the removal
3.7 RESTORATION	.1	Restore areas and existing works or demolition to match condition of a undisturbed areas.	

Town of Three Rivers	CAST-IN-PLACE CONCRETE	Section 03 30 00
Queens Road Sidewalk		Page 1
Upgrades		
Contract No. 242652.00		February 2025

PART 1 - GENERAL

1.1 WORK INCLUDED	.1	This section includes providing all labour, tools, materials, and equipment to perform all cast-in-place concrete work.
1.2 RELATED WORK	.1	Excavating Trenching and Backfilling: Section 31 23 10
	.2	Sidewalks and Curbs: Section 32 16 15
	.3	Pavement Markings: Section 32 17 26
	. 4	Reinstatement: Section 32 98 00
1.3 REFERENCES	.1	ASTM C260/C260m-10a(2016), Standard Specification for Air-Entraining Admixtures for Concrete.
	.2	ASTM C494/C494M-17, Specification for Chemical Admixtures for Concrete.
	.3	ASTM C309-19, Specification for Liquid Membrane-Forming Compounds for Curing Concrete.

- .4 ASTM C827/C827M-16, Standard Test Method for Change in Height at Early Ages of Cylindrical Specimens of Cementitious Mixtures.
- .5 ASTM C939/C939M-16a, Standard Test Method for Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method).
- .6 ASTM D1751-18, Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types).
- .7 CSA-A23.1:19/A23.2:19, Concrete Materials and Methods of Concrete Construction/Test methods and Standard Practices for Concrete.
- .8 CSA-A3000-18, Cementitious Materials

Town of Three Rivers Queens Road Sidewalk Upgrades	C.	AST-IN-PLACE CONCRETE	Section 03 30 00 Page 2
Contract No. 242652.00			February 2025
		Compendium.	
	.9	DIN 1048-5, Testing of Concrete: Testing of Hardened Concrete (Specimens Prepared in Mould).	
	.10	CRD C49-92, Standard Test Method For Water Permeability of Concrete.	
	.11	ASTM C1585-2013, Standard Test Method for Measurement of Rate of Absorption of Water by Hydraulic Cement Concretes.	
	.12	ASTM C39/C39M-18, Standard Te Compressive Strength of Cylin Specimens.	
Electrical Indication		ASTM C1202-19, Standard Test Electrical Indication of Cond to Resist Chloride Ion Penetr	crete's Ability
	.14	ASTM C157/C157M-17, Standard Length Change of Hardened Hyd Mortar and Concrete.	
1.4 SAMPLES	.1	At least four (4) weeks prior work, inform the Consultant of source of aggregates and provisampling.	of proposed
1.5 CERTIFICATES	.1	Minimum four (4) weeks prior concrete work submit to the Comanufacturer's test data and qualified independent inspect laboratory that the following meet specified requirements: 1 Portland cement. 2 Supplementary cementing. 3 Grout. 4 Admixtures. 5 Aggregates. 6 Water. 7 Waterstops. 8 Waterstop joints.	Consultant certification by tion and testing materials will
	.2	Provide certification that mi selected will produce concret quality and yield and that st	te of specified

Town of Three Rivers Queens Road Sidewalk Upgrades		CAST-IN-PLACE CONCRETE	Section 03 30 00 Page 3
Contract No. 242652.00			February 2025
		comply with CSA-A23.1 and adjusted to prevent alkal reactivity problems.	
	.3	Provide certification that and materials to be used with requirements of CAN/	in concrete comply
1.6 WASTE MANAGEMENT AND DISPOSAL	.1	Separate and recycle waste accordance with applicable and national regulations.	
	.2	Use trigger operated spranchoses.	y nozzles for water
	.3	Designate a cleaning area water use and runoff.	for tools to limit
	. 4	Carefully coordinate the work with weather condition	
	.5	Seal emptied containers as disposal away from childre	
	.6	Prevent plasticizers, water and air-entraining agents drinking water supplies of appropriate safety precauliquid or solidify liquid noncombustible material addisposal. Dispose of all with applicable local, prenational regulations.	from entering r streams. Using tions, collect with an inert, nd remove for waste in accordance
	.7	Choose least harmful, app. method which will perform	-
PART 2 - PRODUCTS			
2.1 MATERIALS	.1	Portland cement: to CSA A	3000.
	.2	Supplementary cementing management A3000.	aterials: to CSA

.3 Water: to CAN/CSA-A23.1.

Town of Three Rivers	CAST-IN-PLACE CONCRETE	Section 03 30 00
Queens Road Sidewalk		Page 4
Upgrades		
Contract No. 242652.00		February 2025

- .4 Aggregates: to CAN/CSA-A23.1. Coarse aggregates to be normal density.
- .5 Air entraining admixture: to ASTM C260.
- .6 Chemical admixtures: to ASTM C494. Consultant to approve accelerating or set retarding admixtures during cold and hot weather placing. All admixtures to be approved for use in potable water containing structures.
- .7 Shrinkage compensating grout: premixed compound consisting of non-metallic aggregate, Portland cement, water reducing and plasticizing agents.
 - .1 Compressive strength: 50 MPa at 28 days.
 - .2 Consistency:
 - .1 Fluid: to ASTM C827. Time of efflux through flow cone (ASTM C939), under 30 s.
 - .2 Flowable: to ASTM C827. Flow table, 5 drops in 3 s, (ASTM C109, applicable portion) 125 to 145%.
 - .3 Plastic: to ASTM C827. Flow table, 5 drops in 3 s, (ASTM C109, applicable portions) 100 to 125%.
 - .4 Dry pack to manufacturer's requirements.
- .8 Curing compound: to CAN/CSA-A23.1 and to ASTM C309, Type 1-D with fugitive dye for hidden or exterior use, and Type 1 for exposed concrete. Curing compounds to be approved for use in potable water containing structures.
- .9 Unshrinkable fill: very weak mixture of Portland cement, concrete aggregates and water that resists settlement when placed in utility trenches, and capable of being readily excavated.

2.2 CONCRETE MIXES

- .1 Mix 1: Proportion normal density concrete in accordance with CSA-A23.1, Alternative 1 to give following properties for curbs and walkways.
 - .1 Cement: Type GU.
 - .2 Minimum compressive strength at 28 days: 32 MPa.

Town of Three Rivers	CAST-IN-PLACE CONCRETE	Section 03 30 00
Queens Road Sidewalk		Page 5
Upgrades		
Contract No. 242652.00		February 2025

- .3 Class of exposure: C-2
- .4 Nominal size of coarse aggregate: 20mm
- .5 Slump at time and point of discharge: $80\pm30\,\mathrm{mm}$
- .6 Air content: 5-8%
- .7 Chemical Admixtures: type as approved and in accordance with ASTM C494.

PART 3 - EXECUTION

3.1 EXAMINATION

- .1 Confirm the founding material on which footings and other concrete work are to be placed are free from water. Place concrete only on frost-free ground. Remove previously frozen bearing surfaces.
- .2 Confirm foundations, including mud slabs, bear on bedrock, undisturbed till or structural fill. All structural fill to be placed as directed and under the continuous supervision of the Consultant.
- .3 Foundation bearing surfaces will be subject to inspection and approval by a geotechnical engineer prior to placing concrete. If bearing surfaces are deemed unacceptable because conditions do not meet those anticipated during design, make adjustments as directed.
- .4 Confirm the fill has been placed to meet specified requirements, and that underslab services have been installed, inspected, tested and approved.

3.2 WORKMANSHIP

- .1 Obtain Consultant's approval before placing concrete. Provide 48 hours notice prior to placing of concrete.
- .2 Pumping of concrete is permitted only after approval of equipment and mix.
- .3 Ensure reinforcement and inserts are not disturbed during concrete placement.

Town of Three Rivers	CAST-IN-PLACE CONCRETE	Section 03 30 00
Queens Road Sidewalk		Page 6
Upgrades		
Contract No. 242652.00		February 2025

- .4 Prior to placing of concrete obtain Consultant's approval of proposed method for protection of concrete during placing and curing in adverse weather.
- .5 Maintain accurate records of poured concrete items to indicate date, location of pour, quality, air temperature and test samples taken.
- .6 In locations where new concrete is dowelled to existing work, drill holes in existing concrete. Place dowels and epoxy grout according to epoxy manufacturer's specifications.
- .7 Do not place load upon new concrete until authorized by the Consultant.
- .8 Concrete protective cover to reinforcement is as indicated on the drawings.
- .9 Bars in suspended slabs and slabs-on-grade are to be accurately supported on plastic coated steel chairs to maintain exact cover requirements.
- .10 Confirm all concrete construction is moist cured using either an approved curing compound or burlap maintained in moist conditions. For walls of water retaining structures, leave forms in place for a minimum of three (3) days after placement of concrete. After three (3) days, forms can be stripped and concrete can be moist cured as described above.
- .11 In cold weather protect concrete Work to CAN/CSA-A23.1 and following:
 - .1 Cold weather is defined as a period when the mean air temperature drops below 5°C for more than three successive days.
 - .2 When air temperature is above 0°C and is forecast to remain so for 48 hours after placing, insulated tarps are acceptable protection provided concrete temperatures are monitored and comply with temperature limits specified in the following paragraph.
 - .3 For all other cold weather conditions protect concrete with a windproof enclosure

Town of Three Rivers	CAST-IN-PLACE CONCRETE	Section 03 30 00
Queens Road Sidewalk Upgrades		Page 7
Contract No. 242652.00		February 2025

of canvas or other material to allow free circulation of inside air around fresh concrete. At no point let walls of enclosure touch formwork and provide sufficient space for removal of formwork and for finishing. Supply approved heating equipment capable of keeping inside air at sufficient curing temperatures:

- .1 For an initial three days, at a temperature of not less than 15°C.
- .2 Maintain concrete at temperatures of not less than 10°C for a total period of seven days plus the initial three days specified above.
- .3 At no time shall concrete temperatures exceed 30°C at surfaces.
- .4 Reduce enclosure air temperature at a rate not exceeding 10°C per day until outside air temperature has been reached.
- .5 Take temperature readings both of air and of concrete surfaces at several points within area protected at start and at end of working day. Maintain complete records of temperature readings.
- .4 Protect concrete from damage during curing. When enclosure is provided, avoid rapid drying of the concrete.
- .12 In hot weather protect concrete Work to CAN/CSA-A23.1 and following:
 - .1 When air temperature is at or above 25°C, do not use curing compounds and keep concrete surfaces moist continually during protection stage using burlap maintained in a moist condition.
 - .2 Regulate the generation of heat through hydration to control thermal gradients to prevent thermal cracking.

3.3 INSERTS

- .1 Do not pass sleeves, ducts, pipes or other openings through joists, beams, walls, slabs, column capitals or columns, except where indicated or approved by Consultant.
- .2 Where approved by the Consultant, set sleeves, ties, pipe hangers, miscellaneous

Town of Three Rivers	CAST-IN-PLACE CONCRETE	Section 03 30 00
Queens Road Sidewalk Upgrades		Page 8
Contract No. 242652.00		February 2025

metals and other inserts and openings as indicated or specified elsewhere. Sleeves and openings greater than 100mm x 100mm not indicated, must be approved by the Consultant.

- Maximum diameter of core-drilled holes is 200 mm. Proposed core-drilled penetrations must be approved by the Consultant and concrete shall be scanned to locate reinforcing prior to the placement of concrete.
- .4 Do not eliminate or displace reinforcement to accommodate hardware larger than 400 mm. For inserts/ hardware less than 400 mm, displace bars to accommodate. If inserts cannot be located as specified, obtain approval of modifications from Consultant before placing concrete.
- .5 Coordinate locations and sizes of sleeves and openings shown on structural and civil drawings with mechanical and electrical drawings.
- .6 Set special inserts for strength testing as indicated and as required by non-destructive method of testing concrete.
- .7 Larger size openings in walls and slabs have been shown on the structural drawings. Refer to process drawings for all remaining castin-place concrete penetrations. All pipe sleeves containing wall flanges will be castin-place at time of concrete pour.

3.4 PLACING CONCRETE .1

- .1 Place concrete as specified in CAN/CSA-A23.1.
- .2 Inform Consultant at least 24 hours before each concrete placing operation.
- .3 Do not place concrete when it is raining or likely to rain. If rain begins after concrete is placed, protect with waterproof covers until set.
- .4 Do not permit vertical free fall of concrete mix to exceed 1.5 metres.

Town of Three Rivers Queens Road Sidewalk Upgrades	C.	AST-IN-PLACE CONCRETE	Section 03 30 00 Page 9
Contract No. 242652.00			February 2025
	.5	For exposed concrete, and contake special precautions when prevent segregation of concretold joints, honeycombing or allow vibrator to touch forms	n placing to ete, and to avoid voids. Do not
	.6	Use form vibrators only when narrow for internal type. Emp number of vibrators to ensure consolidation of concrete the volume of each layer. Have as one (1) extra vibrator on har	ploy a sufficient e complete roughout entire vailable at least
	.7	Do not use vibrators for inte	
	.8	Use only tools and handling eare clear of rust or other has foreign material to avoid effections of slabs or hardened	armful and fervescence and
	.9	Use concrete pumps to place of with approval of methods, equidesign.	_
	.10	Provide continuous supervision placement of concrete include grout to ensure reinforcing a maintained in correct position	ing concrete steel is
	.11	Fill all bug holes with depth mm and/or diameter greater the (surface air voids) in wall new building with non-shrink	nan 10 mm faces within the
	.12	Allow minimum of 48 hours betadjacent wall and foundation water retaining structures.	_
3.5 PLACING GROUT	.1	Grout where indicated using paccordance with manufacturer recommendations which result over grouted area.	's

Town of Three Rivers Queens Road Sidewalk	CAST-IN-PLACE CONCRETE	Section 03 30 00 Page 10
Upgrades		rage 10
Contract No. 242652.00		February 2025

3.7 FINISHING

- .1 Finish concrete in accordance with CAN/CSA-A23.1.
- .2 Use smooth form finish for all concrete surfaces. Use form facing material that will produce a smooth, hard, uniform texture on the concrete. Do not use material with raised grain, torn surfaces, worn edges, patches, dents or other defects that will impair the texture of the concrete surface. Patch the holes and defects. Patch smooth bug holes exceeding 10 mm in diameter and/or 6 mm in depth. Completely remove all fins in all water holding tankage and water holding conduits.
- .3 Remove tie cones and patch with latex modified concrete finish. Mix to be in strict accordance with manufacturers instructions.
- .4 Use rubbed finish for all interior concrete exposed to view. Remove fins exceeding 3 mm in height.
- .5 Provide steel trowel finish surfaces to floor in accordance with CAN/CSA-A23.1, Classification A.
 - .1 Floor finisher shall inspect grades, lines, inserts and floor drains prior to commencement of work.
 - .2 Correct floor flatness and waviness deficiencies by grinding.
 - .3 Coordinate floor finishing with epoxy floor coating applicator in areas to receive concrete treatments.
- .6 Rub exposed sharp edges of concrete with carborundum to produce 3 mm radius edges unless otherwise indicated.
- .7 Use curing compounds compatible with applied finish on concrete surfaces. Provide written declaration that compounds used are compatible.

Town of Three Rivers		CAST-IN-PLACE CONCRETE	Section 03 30 00
Queens Road Sidewalk Upgrades			Page 11
Contract No. 242652.00			February 2025
3.8 WATERSTOPS	.1	Install waterstops to provue water seal. Do not distort waterstop in such a way as performance. Do not display when installing waterstops manufacturer's requirement waterstops. Tie waterstops	t or pierce s to hamper ace reinforcement s. Use equipment to ts to field splice
	.2	Use only straight heat sea field. Use factory or fiel and intersections unless of by Consultant.	d welded corners
	.3	Provide waterstops as required continuous seal and as incommoderation and at all constructures water-retaining structures waterstops are indicated of	dicated on the ruction joints in s. Note: not all
	. 4	Install expansion joint wa accordance with manufactur	
CONTROL	.1	Have inspection and testing concrete materials carried Laboratory approved by Ownwith CAN/CSA-A23.1. Pay fortesting.	d out by a Testing her in accordance
	.2	A set of four (4) test cyl provided for each class of each day (only 3 will typi Provide one (1) set of test each 50 m ³ .	concrete placed cally be tested).
	.3	Consultant will require acception cylinders during cold weat Cure cylinders on job site conditions as concrete whi	ther concreting. e under same
		Do non-destructive methods concrete in accordance wit	_

responsibility.

.5

Inspection or testing by Consultant will not

augment or replace Contractor quality control nor relieve him of his contractual

Town of Three Rivers	SITE GRADING	Section 31 22 13
Queens Road Sidewalk	AND FINISHING	Page 1
Upgrades		
Contract No. 242652.00		February 2025

PART 1 - GENERAL

1.1 WORK INCLUDED	.1	This Section specifies requirements for performing all operations necessary to complete ditch and swale construction, general site grading and providing borrow materials required to bring the site to finished elevations shown on Drawings.
1.2 RELATED WORK	.1	Section 31 23 10 - Excavating, Trenching and Backfilling.
	.2	Section 31 24 13 - Roadway and Trail Construction.
	.3	Section 32 91 21 - Topsoil Placement and Grading.
	. 4	Section 32 92 22 - Hydraulic Seeding.
1.3 PROTECTION	.1	Prevent damage to existing fencing, trees, natural features, bench marks, existing pavement, and surface or underground utility lines which are to remain. Repair damage caused during construction, at no extra cost to the Contract.
1.4 SITE CONDITIONS	.1	Known underground and surface utility lines and buried objects are indicated on the plans. Locations are to be considered as approximate. Verify in field prior to commencing excavation.

PART 2 - PRODUCTS

- 2.1 MATERIALS .1 Common borrow is as per Section 31 23 10 Excavating, Trenching and Backfilling.
 - .2 Select borrow as per section 31 23 10 Excavating, Trenching and Backfilling.

Page 2
February 2025

- .3 Hydroseeding: as per Section 32 92 22 Hydraulic Seeding.
- .4 Topsoil: as per Section 32 91 21 Topsoil Placement and Grading.

PART 3 - EXECUTION

3.1 EXCAVATING

- .1 The contractor will be responsible to excavate to the elevations shown on the drawings. All slopes are to match construction drawings and are to be confirmed by the contractor's surveyor.
- .2 Advise Engineer sufficiently in advance of excavation operations for initial cross-sections to be taken.
- .3 Maintain crowns and cross slopes to provide good surface drainage.
- .4 Notify Engineer whenever unsuitable materials are encountered and remove unsuitable materials to depth and extent directed.
- .5 Excavate in all kinds of material encountered on the site and make own computations of amount and nature of excavation required.
- .6 Perform all excavation within ± 25 mm of the lines, grades and dimensions shown on the Drawings or as established by the Engineer. During the progress of the Work, the Engineer may vary the lines, grades and dimensions of the excavations from those specified in this Section.
- .7 Take necessary precautions to preserve the material below and beyond the lines of all excavation in the soundest possible condition.
- .8 Do not obstruct existing drainage ditches and natural watercourses unless indicated on the Drawings.
- .9 During construction direct surface runoff to sediment control facilities installed and maintained to the requirements of Section 01 35 43 Environmental Protection.

Town of Three Rivers	(SITE GRADING	Section 31 22 13
Queens Road Sidewalk Upgrades		AND FINISHING	Page 3
Contract No. 242652.00			February 2025
3.2 EMBANKMENTS	.1	Do not place material which place material on frozen sur	
	.2	Maintain a crowned surface d construction to ensure ready surface water.	_
	.3	Place and compact selected e to full width in uniform lay 200 mm loose thickness. Engi authorize thicker lifts if some compaction can be achieved.	ers not exceeding neer may
	. 4	The footprint below the emba be cleared of vegetation (gr loose, soft, or otherwise un foundation soil removed, exp of the in-situ material.	ubbed) and any suitable
	.5	The downstream slopes of the are to be at 3H: 1V and the are 4H: 1V.	
	.6	Embankment fill to be compace Modified Proctor dry density ASTM Test Method D1557. The the moisture content of the controlled within ±1% of the content that corresponds to density.	as determined by minimum density, fill must be optimum moisture
3.3 FINISHING	.1	Remove soft or other unstabl will not compact properly an depressions with approved ma	d fill resulting
	.2	Shape and compact entire sub 25 mm of design elevations b high or low.	
	.3	Do scarifying, blading, comp methods of work as necessary thoroughly compacted site sh indicated or directed.	to provide a

resulting cavities.

. 4

Finish side slopes to a neat condition, true to lines and grades indicated.

Remove boulders encountered and fill

Town of Three Rivers		SITE GRADING	Section 31 22 13
Queens Road Sidewalk Upgrades		AND FINISHING	Page 4
Contract No. 242652.00			February 2025
		.2 Hand finish slopes that finished satisfactorily by u	
	.5	Dispose of surplus approved of material not required for pland material unsuitable for all landscaping.	acement in fills
3.4 COMPACTION TESTING	.1	Contractor to arrange for and independent compaction testion materials used in site gradiant	ng of all
	.2	Compaction testing to be peraccredited soils testing compapproval of the Engineer.	-
3.5 HYDRAULIC SEEDING	.1	Conduct hydraulic seeding in Section 32 92 22 - Hydraulic	
3.6 MAINTENANCE	.1	Maintain finished surfaces is conforming to this section us acceptance.	

Town of Three Rivers	EXCAVATING, TRENCH	ING Section 31 23 10
Queens Road Sidewalk Upgrades	AND BACKFILLING	Page 1
Contract No. 242652.00		February 2025
PART 1 - GENERAL		
1.1 DESCRIPTION OF WORK	furnishing all mequipment and penecessary to structure designated, compof material encomaterial as backembankments, disposal and /or surplus material backfill material	cifies requirements for aterials, labour, tools and rforming all operations ip topsoil from areas lete excavation of all types untered, placing of excavated fill in trenches and posal of unsuitable material, spreading of suitable as directed, and furnishing las specified below, all as wings and as specified.
	necessarily limi .1 Trench excastructures, pipe appurtenances2 Structure emanholes and cat .3 Control of .4 Providing and .5 Removal and material6 Disposal and surplus material7 Sheeting, so bracing to suppose excavations, existing to suppose excavations.	water by dewatering. corrow material when required. d disposal of unsuitable ad/or spreading suitable
1.2 RELATED SECTIONS	.1 Storm Sewer: Sec	tion 33 42 13
	.2 Roadway Construc	tion: Section 31 24 13
	.3 Site Grading and	Finishing: Section 31 22 13
	.4 Clearing and Gru	bbing: Section 31 11 00

ASTM C117-90. Test Method for Material Finer Than 0.075 mm (No. 200) Sieve in Mineral

ASTM C136-84a. Method for Sieve Analysis of

Aggregates by Washing.

1.3 REFERENCES

.1

.2

Maria of Mhara Discour	т		Costion 21 02 10
Town of Three Rivers Queens Road Sidewalk Upgrades		EXCAVATING, TRENCHING AND BACKFILLING	Section 31 23 10 Page 2
Contract No. 242652.00			February 2025
		Fine and Coarse Aggregates.	
	.3	ASTM D698-91. Test Method for Compaction Characteristics of Standard Effort (600 kN-m/m3)	f Soil Using
1.4 DEFINITIONS	. 1	Excavation: excavation of mat whatever nature including der hardpan, frozen materials, be debris and all other material the site.	nse tills, oulders, bedrock,
	. 2	Selected Backfill: excavated suitable for grading work.	on-site material
1.5 PROTECTION OF EXISTING FEATURES	. 1	Existing buried utilities and .1 Size, depth and locatio utilities and structures as guidance only. Completeness a not guaranteed. Carry out tes required to locate services,	n of existing indicated are for and accuracy are st digs as
1.6 SHORING AND BRACING	.1	Comply with Section 01 35 28 Safety Requirements and applications.	
	.2	Provide shoring and bracing a prevent movement, failure or safeguard and maintain integrations structures, utilities, earth, services and adjacent grades.	settlement, to rity of , benchmarks,
	. 3	Engage services of qualified Engineer registered in the Pa Edward Island to inspect and equipment required for work.	rovince of Prince
1.7 SAMPLES	. 1	When requested submit samples with Section 01 33 00 - Submi	
	.2	At least 2 weeks prior to cor inform Consultant of proposed bedding, backfill or cover ma provide access for sampling.	d source of

Town of Three Rivers	EXCAVATING, TRENCHING	Section 31 23 10
Queens Road Sidewalk	AND BACKFILLING	Page 3
Upgrades		
Contract No. 242652.00		February 2025

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Common Borrow: where material additional to that obtained from excavation on site is required to complete trench backfilling the Contractor will provide this material from his own sources as an extra to the Contract. Material shall be as per DTI requirements Division 206.
- .2 Select Backfill Material: approved material from site excavation or borrow pits. Such material shall be free from stumps, trees, roots, sod, muck or other deleterious material, and shall not contain rock, boulders or masonry larger than 150 mm diameter. The material shall be free from frost, and shall not be placed on frozen ground or in water. It must have a moisture content that will allow compaction to the specified densities.
- .3 Gravel Bedding: shall be as per DTI requirements for Class A, Division 401.
- .4 Sand bedding material: hard, granular, sharp material, well graded from coarse to fine, free from impurities, chemicals or organic matter, chloride content to be less than 250 ppm and graded as follows:

Sieve	% Passing
Square Opening	(by weight)
4.75 mm	100
2.00 mm	90-96
0.85 mm	75-94
0.425 mm	45-82
0.250 mm	18-40
0.150 mm	10-17
0.075 mm	0-5

- .5 Select Borrow: shall be as per DTI requirements Division 206.
- .6 Geotextile fabric: non woven geotextile terrafix 270R or equivalent.

Town of Three Rivers Queens Road Sidewalk Upgrades		EXCAVATING, TRENCHING AND BACKFILLING	Section 31 23 10 Page 4
Contract No. 242652.00			February 2025
	.7	Rip-Rap: Class 1 as per PEI 213 for R-25 random Rip-Rap.	DTI Specification
	.8	Clear stone: Hard durable class 19 mm, crushed and screened, and organic matter.	
	.9	Rigid Insulation: Rigid board extruded polystyrene, type 3	
PART 3 - EXECUTION			
3.1 TEMPORARY EROSION AND SEDIMENTATION CONTROL	.1	Provide temporary erosion and control measures to prevent discharge of soil-bearing was airborne dust to adjacent prowalkways in accordance with Department of Environment.	soil erosion and ter runoff or operties and
	.2	Inspect, repair and maintain sedimentation control measure construction until permanent been established	es during
	.3	Remove erosion and sedimentarestore and stabilize areas removal.	
3.2 SITE PREPARATION	.1	Remove obstructions from sur excavated within limits indi	
	.2	Cut pavement or sidewalk near of proposed excavation in ormay break evenly and cleanly	der that surface
3.3 STOCKPILING	.1	Stockpile fill materials in by Owner's Representative. S materials in manner to preven	tockpile granular
	.2	Protect fill materials from	contamination.
3.4 STRIPPING OF TOPSOIL	.1	Strip all surficial vegetation topsoil. Do not mix topsoil.	on, rootmat and

Town of Three Rivers Queens Road Sidewalk Upgrades		XCAVATING, TRENCHING ND BACKFILLING	Section 31 23 10 Page 5
Contract No. 242652.00			February 2025
3.5 PREPARATION/ PROTECTION	.1	Keep excavations clean, free water and loose soil.	of standing
	.2	Protect natural and man-made required to remain undisturbe otherwise indicated or locate be occupied by new construction existing trees from damage.	ed. Unless ed in an area to
	.3	Protect buried services that remain undisturbed.	are required to
3.6 SHORING AND BRACING	.1	Construct temporary works to and locations as indicated or Professional Engineer respons design of the shoring or brack	directed by the sible for the
	.2	During backfill operation: .1 Unless otherwise indicated directed by Owner's Represent sheeting and shoring from exc2 Do not remove bracing us has reached that specified by Professional Engineer responsible design of the shoring or brack3 Pull sheeting in incrementary compacted backfill is elevation at least 500 mm about sheeting.	cative, remove cavations. Intil backfilling the sible for the cing. The ents that will maintained at an
	.3	When sheeting is required to cut off tops at elevations as Consultant.	-
	. 4	Upon completion of substructured in the Remove shoring and braced in the Remove excess materials restore conditions indicated by Consultant.	ing. from site and
3.7 DEWATERING	.1	Conduct dewatering operations with Section 01 35 44 - Envir Protection.	

.2 Keep all excavations and trenches free of water at all times. Control excavations to

Town of Three Rivers Queens Road Sidewalk Upgrades		EXCAVATING, TRENCHING AND BACKFILLING	Section 31 23 10 Page 6
Contract No. 242652.00			February 2025
		prevent surface water run areas.	ning into excavated
	.3	Do all work in connection supply and maintain on the in number and capacity subottom of all excavations water at all times so placence will be done in	e work site, pumps, fficient to keep dry and free from cing of pipe and the dry. Operate all
	. 4	equipment for as long as Dispose of water removed a manner that will preven health or private propert operation of the work community construction. Pumping of silt or other material in streams or drainage cours	from excavations in t injuries to public y or to any upleted or under water containing suspension into
	.5	Ensure that all sub-drain or the like required for endanger the stability of completion of the work coand consolidate excavation	dewatering shall not the Works. On mpletely backfill
	.6	Excavate, remove or thaw necessary.	out frozen ground as
3.8 EXCAVATION	1	Carry out excavations and to lines, grades, elevatias indicated.	
	.2	Remove rubble and other cencountered during excava	
	.3	For trench excavation, un authorized by Consultant excavate more than 30 m cof installation operation	in writing, do not of trench in advance
	. 4	Dispose of surplus and un material by spreading on thickness and location in Department of Environment	site at an approved accordance with PEI
	.5	Do not obstruct flow of s	urface drainage.
	-		

Earth bottoms of excavations to be solid undisturbed soil, level, free from loose,

soft or organic matter.

Town of Three Rivers Queens Road Sidewalk		EXCAVATING, TRENCHING AND BACKFILLING	Section 31 23 10 Page 7
Upgrades Contract No. 242652.00			February 2025
	.7	Notify Consultant when soi excavation appears unsuita directed by Owner's Repres	ble and proceed as
	.8	Obtain Consultant's approvexcavation.	al of completed
	.9	Remove unsuitable material to extent and depth as dir Consultant.	
	.10	Where required due to unau excavation, correct as fol .1 Fill under bearing so with approved structure fi 100% Standard Proctor Dry .2 Fill under other area minimum of 95% Maximum Dry	lows: urfaces and footings ll compacted to Density. as compacted to a
	.11	Hand trim, make firm and r material and debris from e material at bottom of exca disturbed, compact foundat at least equal to undistur	xcavations. Where vation is ion soil to density
	.12	Obtain excavation permit pany on-site excavations.	rior to starting
3.9 FILL TYPES AND COMPACTION	.1	Use fill of types as indic below. Compaction densitie of maximum densities obtai	s are percentages
	.2	Within trenches: .1 For pipes, cables, duappurtenances, install bed Provide min. 150 mm beddin sand under pipes, cables, appurtenances. Compact to Density. Side fill to top service manually with bedd lifts not exceeding 150 mm	ding as follows: g layer of bedding ducts, fittings and 95% of Maximum Dry of utility or lings and in uniform

Backfill: provide min. 300 mm protective backfill cover over bedding cover, hand-

place. Compact to 95% of Maximum Dry Density. For remainder of trench backfill to underside of sub-base course or of surface restoration in lifts not to exceed 200 mm. Compact to 95%

.3

Town of Three Rivers Queens Road Sidewalk Upgrades		XCAVATING, TRENCHING ND BACKFILLING	Section 31 23 10 Page 8
Contract No. 242652.00			February 2025
		of Maximum Dry Density.	
	. 4	Notify Consultant four hours backfilling of trenches.	prior to
3.10 BACKFILLING	.1	Do not proceed with backfills until Owner's Representative and approved installation.	= =
	. 2	Areas to be backfilled to be debris, snow, ice, water and	
	. 3	Do not use backfill material or contains ice, snow or debr	
	. 4	Backfilling around installation. 1 Place bedding and surround specified elsewhere. 2 Do not backfill around place concrete within 24 hour of concrete.	und material as or over cast-in-
	. 5	Place layers simultaneously of installed work to equalize to Difference not to exceed 225	oading.
	. 6	Where earth pressures are list permit concrete to cure for me to withstand earth and compact Do not install earth or backs concrete has cured completely	ninimum 28 days ction pressures. Fill until
	. 7	Place protective material lay and over minor installations cover is provided. Dumping ma on installations will not be	until 600 mm of aterial directly
	. 8	Place backfill materials of estructure in uniform layers remm compacted thickness up to Compact each layer replacing	not exceeding 200 finish grade.
	. 9	Where new services cross under services, compact bedding for service pipe to 150 mm below and provide a cast-in-place of unsupported pipe.	existing bottom of pipe

Town of Three Rivers Queens Road Sidewalk Upgrades Contract No. 242652.00		XCAVATING, TRENCHING ND BACKFILLING	Section 31 23 10 Page 9 February 2025
3.11 INSPECTION AND TESTING	. 1	The Contractor shall submit of for proposed materials to dem compliance with specification for gradation curves.	nonstrate
	. 2	Have an independent testing lout testing of materials and Frequency of tests will be deconsultant.	compaction.
	.3	Where tests or inspections by testing laboratory reveal wor accordance with contract requirements or inspections as Constructor shall pay costs for tests or inspections as Constructions to verify acceptability work.	rk not in direments, or additional dltant may
3.12 RESTORATION	. 1	Upon completion of work, remomaterials and debris, trim sl correct defects noted by Cons	opes, and

.2

Clean and reinstate areas affected by work as directed by Consultant.

Town of Three Rivers Queens Road Sidewalk Upgrades Contract No. 242652.00	A	SPHALT TACK COAT	Section 32 12 15 Page 1 February 2025
CONTRACT NO. 242032.00			rebluary 2025
PART 1 - GENERAL			
1.1 DESCRIPTION	.1	This section covers asphal layers/lifts of asphalt.	t tack coat between
1.2 REFERENCES	.1	CAN/CGSB-16.2-M89, Emulsif Anionic Type, for Road Pur	
	.2	ASTM D140-88, Practice for Bituminous Materials.	Sampling
1.3 SAMPLES	.1	Upon request, submit sampl with Section 01 33 00 - Su Drawings, Product Data, Sa	ıbmissions/Shop
	.2	Submit, in plastic contain two - 4 L samples of aspha material proposed for use prior to commencing work	alt tack coat
1.4 ASPHALT MATERIAL CERTIFICATION	.1	Upon request by Consultant manufacturer's test data a that asphalt tack coat mat requirements of this sections.	and certification cerial meets
PART 2 - PRODUCTS			
2.1 MATERIALS	.1	Anionic emulsified asphalt grade SS-1.	t: to CAN/CGSB-16.2,
PART 3 - EXECUTION			
3.1 EQUIPMENT	.1	Pressure distributor to be .1 Designed, equipped, operated so that asphalt m	maintained, and

Town of Three Rivers Queens Road Sidewalk Upgrades Contract No. 242652.00	ASPHALT TACK COAT	Section 32 12 15 Page 2 February 2025
	be applied uniformly on surface up to 5 m.	ven temperature. May variable widths of readily determined and L/m² with uniform lowable variation
	Capable of distributing uniform spray without at temperature required.	-
•	3 Equipped with meter regitravel per minute, visibertruck driver to maintain required for application	ly located to enable constant speed
•	4 Equipped with pump havin graduated in units of 5 passing through nozzles to operator. Pump power independent of truck pow	L or less per minute and readily visible unit to be
	5 Equipped with an easily sensitive device which r of liquid in reservoir.	
	6 Equipped with accurate v device or calibrated tan	
	7 Equipped with nozzles of dimensions, adjustable f orientation.	
3.2 APPLICATION .	Apply tack coat only on surface. Obtain Consulta surface before applying	nt's approval of
•	Dilute asphalt emulsion ratio for application. M pumping or other method Consultant.	ix thoroughly by
	3 Apply tack coat evenly t rate as directed by Cons exceed 0.7 L/m².	=

.4 Paint contact surfaces of curbs, gutters,

Town of Three Rivers	ASPHALT TACK COAT	Section 32 12 15
Queens Road Sidewalk		Page 3
Upgrades		
Contract No. 242652.00		February 2025

headers, manholes and like structures with thin, uniform coat of asphalt tack coat material.

- .5 Do not apply asphalt tack coat when air temperature is less than 5°C or when rain is forecast within 2 hours of application.
- .6 Apply tack coat only to base coarse surfaces that are expected to be overlaid on same day.
- .7 Evenly distribute localized excessive deposits of tack coat by brooming as directed by Consultant.
- .8 Where traffic is to be maintained, treat no more than one half of width of surface in one application.
- .9 Keep traffic off tacked areas until tack coat has set as directed by Consultant.
- .10 Re-tack contaminated or disturbed areas as directed by Consultant.
- .11 Permit tack coat to set before placing asphalt paving.

Town of Three Rivers Queens Road Sidewalk Upgrades		ASPHALT PAVING	Section 32 12 16 Page 1
Contract No. 242652.	00		February 2025
PART 1 - GENERAL			
1.1 REFERENCES	.1	Current PEI DTI Standard Specif	Eication, Division 600.
1.2 SAMPLES	.1	Submit to the Consultant, samp sieve analysis at least two (2 beginning Work.	
PART 2 - PRODUCTS			
2.1 MATERIALS	.1	Prime coat, tack coat and asphaper PEI DTI Specifications, Diasphalt cement to be as recomm materials testing authority and	vision 500. Grade of ended by an approved
	.2	Asphaltic material: hot-mixed, of mineral aggregates, uniform with an asphaltic binder in a sample and aggregate requirements of Section 603 of Island Department of Transport Infrastructure Specification.	ly coated and mixed suitable mixing plant. ates must meet the the Prince Edward
	.3	Composition of mixture: to gracontent requirements in Table Prince Edward Island Departmen and Infrastructure Specificati asphalt to be Mix Type A, thic Drawings. Seal course asphalt thickness shown on Drawings.	4, Section 603 of the t of Transportation on. Base course kness shown on the
PART 3 - EXECUTION			
3.1 FOUNDATIONS	.1	Compaction: compact each lift to 100% maximum density to ASTI thickness: 150 mm.	

Town of Three Rivers Queens Road Sidewalk		ASPHALT PAVING	Section 32 12 16 Page 3
Upgrades Contract No. 242652.	20		February 2025
Contract No. 242032.	<u> </u>		repluary 2023
3.2 GENERAL	.1	Coordinate, pay costs for and has Transportation and Infrastructur control testing requirements per compliance with the General Prov Contract Specifications for High	re construction formed and ensure isions and
3.3 EQUIPMENT	.1	Pressure distributor: .1 Distributor to be designed, equipped and operated that aspha even temperature may be applied manner on width up to 4.5 metres determined and controlled rates2 Equip with easily read, accessitive device which registers liquid in reservoir.	<pre>lt material at in a uniform at readily urate and</pre>
	.2	Cold Planer: Self propelled with longitudinal and transverse grad slope controls. Equip with a loa conveyor to facilitate removal o asphalt by truck.	le and ding
3.4 ASPHALT PAVING	.1	Prior to laying mix, clean surfactoreign material.	ce of loose and
.2	.2	Place asphalt concrete to thickn and lines indicated unless other Consultant. Carryout interface w asphalt as per PEI DTI Specifica	wise directed by ith existing
	.3	Placing conditions: .1 Place asphalt only when air is above 5°C for base course, surface course2 When temperature of surface material is to be placed falls be provide extra rollers as necessarequired compaction before cooli.3 Do not place asphalt concre of standing water exist on surfaduring rain, or when surface is	on which pelow 10°C, ry to obtain ng. ete when pools ce to be paved,
	. 4	Place, roll, and compact asphalt Section 603, Province of Prince	Edward Island,

Standard Specification.

Department of Transportation and Infrastructure

Town of Three Rivers	ASPHALT PAVING	Section 32 12 16
Queens Road Sidewalk		Page 4
Upgrades		
Contract No. 242652.00		February 2025
2 E MITCHNECC AND		

3.5 THICKNESS AND

DTI FINISH TOLERANCES .1 Thickness and finish tolerances to be as per PEI specifications 603.11.

Town of Three Rivers Queens Road Sidewalk Upgrades	F	ROADWAY DUST CONTROL	Section 32 15 60 Page 1
Contract No. 242652.00			February 2025
PART 1 - GENERAL			
1.1 REFERENCES	.1	CGSB 15-GP-1M-80, Calcium Ch	loride.
1.2 MEASUREMENT FOR PAYMENT	.1	Supply and application of wa control is incidental to the included in overall tendered	work, to be
1.3 DELIVERY, STORAGE AND HANDLING	.1	Supply water in quantities a directed by Owner's Represen	
PART 2 - PRODUCTS			
2.1 MATERIALS	.1	Water: potable to Owner's Reapproval.	presentative's
PART 3 - EXECUTION			
3.1 APPLICATION	.1	Apply water with equipment a Owner's Representative at ra $1/m^2$ as appropriate when dir Representative.	te of 0.5 to 5.0
	.2	Apply water with distributor spray system to ensure unifo and with means of shut-off.	

Town of Three Rivers Oueens Road Sidewalk	SIDEWALKS AND CURBS	Section 32 16 15 Page 1
Upgrades Contract No. 242652.00		February 2025

PART 1 - GENERAL

1.1 WORK INCLUDED	.1	This section specifies requirements for supplying and installing select borrow, granular material, concrete curbs, concrete sidewalks and asphalt curbs, to the lines, grades, dimensions and typical details as indicated or directed.
1.2 RELATED WORK	.1	Cast in Place Concrete: Section 03 30 00
	.2	Excavating, Trenching and Backfilling: Section 31 23 10
	.3	Roadway Construction: Section 31 24 13
	. 4	Cast in Place Replaceable Tactile/Detectable Warning Surface Tiles: Section 32 17 26
	.5	Asphalt Paving: Section 32 12 16
1.3 REFERENCE STANDARDS	.1	Do cast-in-place concrete work in accordance with Section 03 30 00.
	.2	Asphalt curbs shall be as per PEI DTI Specifications Division 600.
1.4 PROTECTION	.1	Protect existing adjacent surfaces designated to remain. In event of damage, immediately replace or make repairs at no extra cost and to the approval of the Consultant. Prior to the start of construction carry out a condition survey with the consultant and confirm the work to be carried out.
1.5 SUBMITTALS	.1	Inform the Consultant of proposed source of materials and provide access for sampling at least 4 weeks prior to commencing work.

PART 2 - PRODUCTS

2.1 GRANULAR .1 Granular bedding: Class A Granular as specified in Section 31 23 10.

Town of Three Rivers Queens Road Sidewalk Upgrades		SIDEWALKS AND CURBS	Section 32 16 15 Page 2
Contract No. 242652.00			February 2025
2.2 SUB BASE	.1	Sub Base: Select Borrow as indicand in Section 31 23 10.	ated on the drawings
2.3 FORMWORK	.1	Formwork to Section 03 30 00.	
2.4 REINFORCING	.1	Reinforcing to Section 03 30 00.	
2.5 CONCRETE MIX	.1	Proportion normal density concrewith CAN/CSA-A23.1, Alternative properties for concrete in extesidewalks, and traffic islands: 1 Use type GU cement. 2 Minimum compressive strength MPa. 3 Minimum cement content: CAN. 4 Class of exposure: C-2. 5 Nominal size of coarse aggr. 6 Slump at time and point of 30 mm. 7 Air content: 5% to 8% maximum. 8 Chemical admixtures: in acc C494. 9 Maximum water-cement ratio Do not change concrete mix without Consultant. Should change in mat proposed, provide new mix design Consultant. Asphaltic concrete mixes to meet Division 600.	1, to give following rior curbs, th at 28 days: 32 /CSA-A23.1. egate: 20 mm. discharge: 80 mm ± um. cordance with ASTM 0.45. ut prior approval of terial source be a for approval by
PART 3 - EXECUTION			
3.1 EXCAVATION	.1	Remove existing curb and sidewal excavate to the lines and grades drawings, and as required to instant	s shown on the
	.2	Compact surface of subgrade to 1 Density.	00% Standard Proctor

Town of Three Rivers Queens Road Sidewall	_	SIDEWALKS AND CURBS	Section 32 16 15 Page 3
Upgrades Contract No. 242652.00			February 2025
3.1 EXCAVATION .3 (Cont'd)		Obtain the Consultant's approval of subgrade before placing granular base.	
3.2 INSPECTION OF GRANULAR BASE	.1	Do not form curb, sidewalk, or granular base and reinforcing approved.	
3.3 GRANULAR BASE	.1	Place select borrow as indicat to grades required for granula 100% Standard Proctor. Place g to lines and widths and depths to 100% Standard Proctor Densi	r base, compact to ranular base material indicated and compact
3.4 FORMING .1		Concrete and asphalt for curbs forms of either wood or metal use of a slip form paver. Extr mule configuration to be approconstruction begins. Hand finidirected by Consultant.	construction or by ruding equipment and ved before
	.2	Form vertical surfaces to full material that will not deform plastic concrete.	
	.3	Securely position forms to req	uired lines and
	. 4	Horizontal and vertical alignm to placing concrete must not v from the correct alignment and	rary more than 6 mm
	.5	Coat forms with approved form :	release agent.
	.6	Obtain approval of forms before	e placing concrete.
3.5 CONCRETE WORKMANSHIP AND TESTING	.1	Obtain the Consultant's approv concrete. Place concrete in ac CAN/CSA-A23.1.	

m		GIDENING AND CURPS	00.10.15
Town of Three Rivers Queens Road Sidewalk Upgrades		SIDEWALKS AND CURBS	Section 32 16 15 Page 4
Contract No. 242652.00			February 2025
3.5 CONCRETE WORKMANSHIP AND TESTING (Cont'd)	.2	Test concrete once for each day concrete, apron, sidewalk). Each day include field slump and air, and cylinder breaks to test for compresent results will be considered retained the completed days pour.	s testing must 7, 28 and 56 day essive strength.
3.6 CURING CONCRETE	.1	Apply curing compound to finished recommended by manufacturer, as s sheen has left the concrete surfa	oon as the water
	.2	Cure and protect concrete to CAN/otherwise directed. Thirty days a placement, sweep the curb/gutter coats 50/50 boiled linseed oil an curb/gutter. Allow two (2) days b applications.	fter concrete clean and apply two d kerosene to
3.7 TOLERANCES	.1	Finish surfaces to within 3mm in 3m straight edge place on surface	
3.8 EXPANSION AND CONTRACTION JOINTS	.1	Install tooled transverse contractions, when concrete is stiff, at intervals of 15m.	
	.2	When sidewalk is adjacent to curb curb, gutters and sidewalk coinci	_
3.9 FINISHING CONCRETE	.1	Finish exposed surfaces to a smooth free of open texturing and expose work more mortar to surface than use neat cement as a dryer to face	d aggregate. Do not required. Do not
	.2	Round edges, including edges of j radius edging tool.	oints, with 10mm
	.3	Finish surfaces to prevent ponding	g.
	. 4	Immediately after floating, give surface uniform broom finish to p corrugations not exceeding 2mm de broom in direction normal to cent	roduce regular ep, by drawing

Town of Three Rivers Queens Road Sidewalk	SIDEWALKS AND CURBS	Section 32 16 15 Page 5
Upgrades		
Contract No. 242652.00		February 2025

3.10 CONSTRUCTION JOINTS

- .1 Control joints to be saw cut minimum of one-third of section thickness, width to be 4 mm. Make saw cuts within 4-18 hours of finishing concrete, as soon as concrete can be sawn without dislodging aggregate particles.
- .2 Install joints as directed at intervals of:
 - .1 Isolation joints, 15 metres or as required.
 - .2 Transverse control joint spacing shall equal width of sidewalk.
 - .3 Install control joints adjacent to utility pole encroachments, as indicated on the drawings.
- .3 Install isolation joint filler around manholes and catch basins, signal pole bases, and along length adjacent to concrete curbs, catch basins, or permanent structure.
- .4 At the end of each concrete pour, install isolation joint dowels to form cold pour construction joint.
- .5 Install isolation joints in center an splitter islands as shown on the drawings.
- .6 Install joint filler in isolation joints.
- .7 Seal isolation joints with sealant approved by Consultant.

3.11 DEFECTIVE WORK

- .1 Concrete is defective when:
 - .1 Concrete contains excessive honeycombing or embedded debris.
 - .2 The strength level fails to meet the criteria of CAN/CSA-A23.
 - .3 Concrete air content is less than the minimum specified.
- .2 Repair or replace defective concrete at no additional cost to the Contract.

3.12 CLEAN-UP

.1 Upon completion of work, remove debris and surplus excavated material, trim surfaces and leave work site clean and tidy.

Town of Three Rivers Queens Road Sidewalk Upgrades Contract No. 242652.00		CAST IN PLACE REPLACEABLE TACTILE/DETECTABLE WARNING SURFACE TILES	Sect 32 17 26 Page 1 February 2025	
PART 1 - GENERAL				
1.1 RELATED WORK				
	.1	Cast-in-Place Concrete: Section 03	30 00	
	.2	Sidewalks & Curbs: Section 32 16 15		
1.2 DESCRIPTION	.1	This Section includes Specification Cast In Place Replaceable Tactile Tiles (REP) with an in-line truncate embedded in curb ramps at the local dimensions shown on the Drawings, with the Contract Documents and as Consultant.	Warning Surface ated dome pattern, ations and to the in accordance	
1.3 RELATED DOCUMENTS	.1	Drawings and general provisions of including General and Special Conditions of State High Transportation Officials (AASHTO):	ditions and to this Section.	
1.4 DELIVERY, STORAGE AND HANDLING	.1	Cast In Place Replaceable Tactile Tiles (REP) must be suitably packar prevent damage in shipment or hand surfaces shall be protected by structured Storage Facility 1.1 Store REP Tiles in an area thacceptable temperature range (40-9 particular, protect sealants from 2.2 Maintain Storage Facility in condition to prevent contamination Tiles and incidentals.	aged or crated to dling. Finished ardy wrappings. nat is within an 90 degrees). In freezing. a clean dry	
PART 2 - PRODUCTS				
2.1 MATERIALS	.1	Cast in Place replaceable tactile manufactured by ADA Solutions, or		

.2

Provide concrete, sealants and related materials in

accordance with the Contract Documents and the guidelines set by their respective manufacturers.

Town of Three Rivers	CAST IN PLACE	Sect 32 17 26
Queens Road Sidewalk	REPLACEABLE	Page 2
Upgrades	TACTILE/DETECTABLE	-
Contract No. 242652 00	WARNING SURFACE TILES	February 2025

2.2 EQUIPMENT

. 1

Provide all tools, equipment and services required for satisfactory installation per manufacturer's instruction as Incidental Work. Equipment, which may be required include typical mason's tools, a 2-foot long level with electronic slope readout, (2) 25-pound weights, and a rubber mallet with a piece of wood for tamping down the Tactile Warning Unit(s).

PART 3 - EXECUTION

3.1 PREPARATION

- .1 During all concrete pouring and REP Tile
 Installation procedures, provide adequate safety
 guidelines are in place and that they are in
 accordance with the applicable industry and
 government standards.
- .2 The physical characteristics of the concrete must be consistent with the Contract Specifications while maintaining a slump range of 4 7 to permit solid placement of the REP Tile. An overly wet mix will cause the REP Tile to float. Under these conditions place suitable weights such as two (2) concrete blocks or sandbags (25 pounds) on each REP Tile.
- .3 Pour and finish the concrete true and smooth to the required dimensions and slope prior to REP Tile placement.

3.2 INSTALLATION

- .1 Install REP Tile as per the manufacturer's instructions.
- .2 To the maximum extent possible, orient the REP Tiles such that the rows of in-line truncated domes are parallel with the direction of the ramp. When multiple REP Tiles regardless of size are used, align the truncated domes between the tactile warning surface tiles and throughout the entire tactile warning surface installation.

Town of Three Rivers	CAST IN PLACE	Sect 32 17 26
Queens Road Sidewalk	REPLACEABLE	Page 3
Upgrades	TACTILE/DETECTABLE	-
Contract No. 242652 00	WARNING SURFACE TILES	February 2025

3.2 INSTALLATION (Cont'd)

- .3 In accordance with the Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Rights of Way (7/23/11, Access Board): Sections 304 + 305), Tactile Warning Surface Tile shall be located relative to the curb line as shown within Sections 304+305 of the Guidelines.
- .4 Tamp or vibrate REP Tiles into the fresh concrete to ensure that there are no voids or air pockets, and the field level of the Tactile Warning Surface Tile is flush to the adjacent concrete surface or as the Drawings indicate to permit proper water drainage and eliminate tripping hazards between adjacent finishes.
- .5 On Continuous Runs: leave a 3mm nominal gap between successive Tactile Warning Surface Tiles. As part of the concrete finishing operation, the Installer shall apply 6mm edge treatment around the perimeter of the Tactile Warning Surface Tiles to facilitate future replacement of the Tactile Warning Surface Tile. A Urethane Sealant such as Sikaflex 1a or BASF NP1 shall be applied to the edge treatment for a watertight Tactile Warning Surface Tile installation.
- .6 The manufacturer recommends that a maximum of 10m be installed in any single pour. Please call (800) 373-0519 for further details.

3.3 CLEANING AND PROTECTING

- .1 Protect REP Tiles against damage during construction period to comply with REP Tiles manufacturer's Specifications.
- .2 During and after the REP Tile installation and the concrete curing stage, it is imperative that there are no walking, leaning or external forces placed on the REP Tile to rock the REP Tile, causing a void between the underside of the REP Tile and the concrete substrate.
- .3 Remove Protective Plastic Sheeting from REP Tile within 24 hours of installation of the REP Tile. Particularly under hot weather conditions (26 degrees or higher), plastic sheeting will adhere strongly (resulting in difficult removal of same) to Tactile Warning Surface Tile when not removed quickly.

Town of Three Rivers	CAST IN PLACE	Sect 32 17 26
Queens Road Sidewalk	REPLACEABLE	Page 4
Upgrades	TACTILE/DETECTABLE	3
Contract No. 242652 00	WARNING SURFACE TILES	February 2025

3.3 CLEANING AND .4
PROTECTING
(Cont'd)

If requested by the Consultant, clean REP Tiles not more than four (4) days prior to date scheduled for inspection intended to establish date of substantial completion in each area of project. Clean REP Tile by method specified by Tactile Warning Surface Products manufacturer.

Town of Three Rivers		TOPSOIL PLACEMENT AND	Section 32 91 21
Queens Road Sidewalk		GRADING	Page 1
Upgrades Contract No. 242652.00			February 2025
<u> </u>			restaury rere
PART 1 - GENERAL			
1.1 SCOPE OF WORK	.1	This section specifies top amendments, the stripping preparation of existing gr of topsoil, and finish gra	of topsoil, the ades, the placement
1.2 RELATED SECTIONS	.1	Section 01 35 44 - Environmental Protection Procedures	
1.3 TESTING	.1	All soil and sand used in be tested for compliance w specification by a laborat the owner. Soil sampling, analysis to be in accordan regulations and standards. arrange and pay for cost o	ith texture ory designated by testing and ce with Provincial Contractor will
1.4 WASTE MANAGEMENT	.1	Separate and recycle waste	materials.
AND DISPOSAL	.2	Divert unused soil amendme to a Provincially approved collections site.	
		Do not dispose of unused s sewer systems, into lakes, ground or in locations whe health or environmental ha	streams, onto re it will pose
PART 2 - PRODUCTS			
2.1 TOPSOIL	.1	Topsoil for this project t topsoil stripped from site topsoil to be supplied by	and imported
	.2	Topsoil: mixture of minera micro organisms and organi provides suitable medium f intended plant growth, fre foreign objects, toxic mat and roots greater than 20	c matter which or supporting e of debris, weeds, erials and stones
		Soil texture: sandy loam	_

.3

Soil texture: sandy loam, based on The Canadian System of Soil Classification, to

Town of Three Rivers	TOPSOIL PLACEMENT AND	Section 32 91 21
Queens Road Sidewalk	GRADING	Page 2
Upgrades		
Contract No. 242652.00		February 2025

the following particle distribution and gradation:

	Distribution	Acceptable
Particle Type	by volume	Range
very coarse sand	10%	10% or less
coarse & medium sand	45%	42-47%
fine sand	15%	13-17%
very fine sand	10%	8-12%
clay	20%	18-23%

Particle Type	Gradation
very coarse sand	2.0-1.0 mm
coarse sand	1.0-0.5 mm
medium sand	0.5-0.25 mm
fine sand	0.25-0.15 mm
very fine sand	0.15-0.106 mm
clay	less than 0.06 mm

- .4 Organic matter: 4-20% by dry weight volume, well decomposed and stable. Organic material measuring 20 mm will not exceed 2% by volume.
- .5 pH range: 6.0-7.0
- .6 Consistency: friable when moist.
- .7 Fertility: major soil nutrients present in following ratios:
 - .1 Nitrogen (N): 20 to 40 micrograms of available N per gram of topsoil
 - .2 Phosphorus (P): 10 to 20 micrograms of phosphate per gram of topsoil.
 - .3 Potassium (K): 80 to 120 micrograms of potash per gram of topsoil.
 - .4 Calcium, magnesium, Sulphur and/or establishment of intended vegetation.

2.2 SOURCE QUALITY CONTROL

- .1 Advise Engineer of sources of topsoil to be utilized with sufficient lead time for testing.
- .2 Contractor is responsible for amendments to supply topsoil as specified.

Town of Three Rivers	TOPSOIL PLACEMENT AND	Section 32 91 21
Queens Road Sidewalk	GRADING	Page 3
Upgrades		
Contract No. 242652.00		February 2025
		-

PART 3 - EXECUTION

3.1 STRIPPING OF TOPSOIL

- .1 Commence topsoil stripping of areas after all wood, brush and grasses have been removed from site.
- .2 Strip and pulverize topsoil to depths as indicated. Avoid mixing topsoil with subsoil where textural quality will be moved outside acceptable range of intended application.
- .3 Stockpile in locations as directed by Owner's Representative. Stockpile height not to exceed 2 m.
- .4 Unused topsoil is to remain on site.
- .5 Protect stockpiles from contamination and compaction.

3.2 PREPARATION OF EXISTING GRADE

- .1 Verify that grades are correct. If discrepancies occur, notify Engineer and do not commence work until instructed by Department Representative.
- .2 Grade soil, eliminating uneven areas and low spots, ensuring positive drainage.
- .3 Remove debris, roots, branches, stones in excess of 25 mm diameter and other deleterious materials. Remove soil contaminated with calcium chloride, toxic materials and petroleum products. Remove debris which protrudes more than 75 mm above surface. Dispose of removed material off site.
- .4 Cultivate entire area which is to receive topsoil to minimum depth of 100 mm. Cross cultivate those areas where equipment used for hauling and spreading has compacted soil.

3.3 PLACING AND SPREADING OF TOPSOIL/PLANTING SOIL

.1 Place topsoil after Engineer has accepted subgrade.

Town of Three Rivers Queens Road Sidewalk		TOPSOIL PLACEMENT AND GRADING	Section 32 91 21 Page 4	
Upgrades Contract No. 242652.00			February 2025	
	.2	Spread topsoil in uniform layers not exceeding 150 mm.		
	.3	minimum depths after settlem	100 mm for seeded areas. 500 mm for shrub beds. 11y spread topsoil/planting soil around	
	. 4	Manually spread topsoil/plantrees, shrubs and obstacles.		
3.4 SOIL AMENDMENTS	.1	For planting beds and turf areas: apply and thoroughly mix soil amendments into full specified depth of topsoil at following rates recommended by soil analyses.		
3.5 FINISH GRADING	.1	and ensure positive drainage	e to eliminate rough spots and low areas ensure positive drainage. Prepare loose ole bed by means of cultivation and equent raking.	
	.2	Consolidate topsoil to requiusing equipment approved by surfaces smooth, uniform and deep foot printing.	Engineer. Leave	
3.6 ACCEPTANCE	.1	Engineer will inspect and te place and determine acceptan depth of topsoil and finish	ce of material,	
3.7 SURPLUS MATERIAL	.1	Surplus materials to remain	on site.	
3.8 CLEANING	.1	Upon completion of installat surplus materials, rubbish, equipment barriers.		

Town of Three Rivers	HYDRAULIC SE	EEDING	Section 32 92 22
Queens Road Sidewalk			Page 1
Upgrades			
Contract No. 242652.00			February 2025

PART 1 - GENERAL

This Section specifies seed, mulch, slurry 1.1 SCOPE OF WORK . 1 preparation and application, and maintenance for hydraulic seeding. Section 01 35 44 - Environmental Protection 1.2 RELATED SECTIONS .1 Procedures .2 Section 32 91 21 - Topsoil Placement and Grading Upon request, provide product data for: 1.3 SUBMITTALS . 1 .1 Seed. . 2 Mulch. .3 Tackifier. . 4 Fertilizer. Schedule hydraulic seeding to coincide with 1.4 SCHEDULING . 1 preparation of soil surface. Schedule hydraulic seeding to be completed . 2 not later than September 30 without written approved from Consultant. Separate and recycle waste materials. 1.5 WASTE MANAGEMENT . 1 AND DISPOSAL . 2 Divert unused fertilizer from landfill to Provincially approved hazardous material site. Do not dispose of unused fertilizer into .3 sewer systems, into lakes, streams, onto ground or in locations where it will pose health or environmental hazard.

PART 2 - PRODUCTS

2.1 SEED .1 "Canada pedigreed grade" in accordance with Government of Canada Seeds Act and

Town of Three Rivers Queens Road Sidewalk Upgrades	HYDRAULIC SEEDING	Section 32 92 22 Page 2
Contract No. 242652.00		February 2025
	Regulations. 2 Mixture composition: .1 60% Creeping Red Fescu .2 20% Hard Fescue .3 10% Perennial Rye .4 10% White Clover	ie
2.2 MULCH	Specially manufactured for seeding equipment, non-toxic activated, green colouring, germination and growth inhibit with following properties: .1 Made from wood cellulo 2 Organic matter content minus 0.5%. .3 Value of pH: 6.0. .4 Potential water absorp	free of pointing factors ese fibre. : 95% plus or
2.3 TACKIFIER .	1 Water soluble vegetable car	oohydrate powder.
2.4 WATER	1 Free of impurities that wou germination and growth.	ld inhibit
2.5 FERTILIZER .	1 To Canada "Fertilizers Act" Regulations". Complete synt release with 35% of nitroge water-insoluble form.	hetic, slow
2.6 INOCULANTS .	1 Inoculant containers to be date.	tagged with expiry
PART 3 - EXECUTION		
3.1 WORKMANSHIP .	Do not spray onto structure rails, fences, plant materia other than surfaces intended	al, utilities and
	2 Clean-up immediately, any mount where not intended, to satisfy	

Consultant.

Morro of Mhose Disease		IIVDDAIII TO CEEDTNO	Coation 20 00 00
Town of Three Rivers Queens Road Sidewalk Upgrades		HYDRAULIC SEEDING	Section 32 92 22 Page 3
Contract No. 242652.00			February 2025
	.3	Do not perform work under adv conditions such as wind speed frozen ground or ground cover ice or standing water.	ds over 10 km/h,
	. 4	Protect seeded areas from treplants are established.	espass until
3.2 PREPARATION OF SURFACES	.1	Fine grade areas to be seeded and hollows. Ensure areas are deleterious and refuse materi	e free of
	.2	Ensure areas to be seeded are of 150 mm before seeding.	e moist to depth
	.3	Obtain Consultant's approval topsoil depth before starting	_
3.3 FERTILIZING PROGRAM	.1	Fertilize prior to fine gradi fertilizer equally distribute with the following program.	
	.2	Following germination, all service an application of fer specified by fertilizer manufone cut.	tilizer at rate
	.3	Apply additional soil supplem determined necessary by soils conducted during establishmer	s analysis
3.4 PREPARATION OF SLURRY	.1	Measure quantities of materia weight-calibrated volume meas	
	.2	Charge required water into sematerial into hydraulic seede agitation. Pulverize mulch ar into seeder.	er under
	.3	After all materials are in the well mixed, charge tackifier mix thoroughly to complete sl	into seeder and
3.5 SLURRY APPLICATION	.1	Hydraulic seeding equipment: .1 Slurry tank2 Agitation system for sl	urry to be

Town of Three Rivers]	HYDRAULIC SEEDING	Section 32 92 22
Queens Road Sidewalk			Page 4
Upgrades			
Contract No. 242652.00			February 2025
		manufacturer.	sting of .nd/or mechanical oy 50 m hand operated .zles. ied per 100 square xture 2.0 kg. recommended by
		.4 Water: Minimum .5 Fertilizer: 0.	100 litres. 5kg, Type 1 5-20-20
	. 2	Apply slurry uniformly, a application for adherence germination of seed.	
	. 3	Using correct nozzle for	application.
	. 4	Using hoses for surfaces and to control application	
	. 5	Blend application 300 mm areas or sodded areas to surfaces.	
	. 6	Re-apply where application	on is not uniform.
	. 7	Remove slurry from items designated to be sprayed.	
	. 8	Protect seeded areas from	trespass.
	. 9	Remove protection devices Consultant.	as directed by
3.6 MAINTENANCE DURING ESTABLISHMENT PERIOD	.1	Perform following operati application until accepta	
	2	Repair and reseed dead or	hara anata ta allam

.2

.3

grass.

Repair and reseed dead or bare spots to allow

Mow grass once whenever it reaches height of

90 mm. Remove clippings which will smother

establishment of seed prior to acceptance.

Town of Three Rivers Queens Road Sidewalk		HYDRAULIC SEEDING	Section 32 92 22 Page 5
Upgrades			10.90
Contract No. 242652.00			February 2025
	. 4	Fertilize seeded areas after accordance with fertilizing phalf of required amount of fedirection and remainder at rewater in well.	program. Spread ertilizer in one
	.5	Control weeds by mechanical outilizing integrated pest man practices approved by the Own	nagement
	.6	Water seeded area to maintain moisture level for germination growth of grass. Control water washouts.	on and continued
3.7 ACCEPTANCE	.1	Seeded areas will be accepted provided that: .1 Plants are uniformly es areas are free of rutted, erodead spots. .2 Areas have been mown at .3 Areas have been fertili	tablished. Seeded oded, bare or least twice.
	.2	Areas seeded in fall will ach acceptance in following spring after start of growing season acceptance conditions are full	ng, one month n provided
3.8 MAINTENANCE DURING WARRANTY	.1	Perform following operations acceptance until end of warra	
PERIOD	.2	Repair and reseed dead or bas satisfaction of Consultant.	re spots to
	.3	Fertilize seeded areas in acc fertilizing program. Spread hamount of fertilizer in one of remainder at right angles and	nalf of required direction and
3.9 CLEANING	.1	Upon completion of installation surplus materials, rubbish, to equipment barriers.	

Town of Three Rivers	REINSTATEMENT	Section 32 98 00
Queens Road Sidewalk		Page 1
Upgrades		
Contract No. 242652.00		February 2025

PART 1 - GENERAL

1.1 WORK INCLUDED	.1	The work to be done under this Section consists of furnishing all materials, labour, tools and equipment and performing all operations necessary for the complete reinstatement of surfaces and structures disturbed by work of this Contract.
	.2	Repair damage or disturbance to surfaces, properties and structures, within limits of the Site or elsewhere on other properties occupied, traversed or otherwise used by the Contractor during the Contract period to a condition equal to or better than that before work began, at no additional cost to the Contract.
1.2 RELATED WORK	.1	Cast-in-Place Concrete: Section 03 30 00
	.2	Excavating, Trenching and Backfilling: Section 31 23 10
	.3	Roadway and Trail Construction: Section 31 24 13
	. 4	Asphalt Paving: Section 32 12 16
	.5	Topsoil Placing and Grading: Section 32 12 21
	.6	Hydraulic Seeding: Section 32 92 22
1.3 REFERENCES	.1	PEI Department of Transportation and Infrastructure Standard Specifications, latest edition.
1.4 MAINTENANCE	.1	Contractor shall take care and maintain all reinstated areas until final acceptance of the work.
	.2	Repair damaged areas to the approval of the Engineer.

Town of Three Rivers Queens Road Sidewalk Upgrades	F	REINSTATEMENT	Section 32 98 00 Page 2
Contract No. 242652.00			February 2025
PART 2 - PRODUCTS			
2.1 MATERIALS	.1	Granular material: in accordance requirements of Section 31 23	
	.2	Concrete material: as specifing 30 00.	ied in Section 03
	.3	Asphalt material: as specific 12 16.	ed in Section 32
	. 4	Grass surface materials: as sections 32 92 22.	specified in
PART 3 - EXECUTION			
3.1 GENERAL	.1	Maintain surfaces to be reinadjoining existing surfaces of final reinstatement.	
3.2 CONCRETE SURFACES	.1	Carry out final reinstatements surfaces as follows: .1 Cut back broken edges of concrete to full depth, in some concrete depths in the first to not less than 100% Maximum density3 Place and finish concrete with Section 03 30 004 Ensure finished surface and matches grade of existing surface, as approved by the less than 100% Maximum density.	of original traight lines. In face material, depth indicated and recompact. Add indicated. Compact in Corrected Dry ite in accordance is even, dense groad or
3.3 ASPHALT SURFACES	.1	Keep surface of asphalt paved surfaces in good condition by settlement of trench backfill in Section 31 23 10.	y repairing

.2 Carry out final reinstatement of asphalt surfaces as follows:

Town of Three Rivers Queens Road Sidewalk Upgrades	REINSTATEMENT	Section 32 98 00 Page 3
Contract No. 242652.00		February 2025
	remove existing gravel over disturbed area, gravel to compacted dep to not less than 100% Madensity. .3 Supply, place, rol mixture in accordance was accordance where the compact asphalt contains a contains and the exceeding 50 mm in this	in straight lines. from edge of tension cracks. Clean ply tack coat before e. tal surface material, to a depth indicated ade and recompact. Add ths indicated. Compact aximum Corrected Dry I and compact asphalt ith Section 32 12 16. Increte in lifts not kness. Irface is even, dense isting road or
3.4 GRAVEL SURFACES	Reinstate gravel surface compacted thickness of such that gravel surface with adjacent surfaces.	gravel at an elevation
	.2 Place and compact grave accordance with the requirement of Transportal Infrastructure Renewal Specifications.	uirements of PEI ation and
3.5 GRASS SURFACES	.1 Seeding: to Section 32 areas to be reinstated Grade to allow for tops placed so finish grade with existing surfaces.	to smooth surface. oil and seed to be

Town of Three Rivers Queens Road Sidewalk Upgrades	PRECAST STRUCTURES	Section 33 39 00 Page 1
Contract 242652.00		February 2025
PART 1 - GENERAL		

1.1 RELATED WORK	.1	Excavating, Trenching and Backfilling: Section 31 23 10
	.2	Sanitary Sewer Section: 33 31 00
	.3	Storm Sewer Section: 33 42 13
1.2 REFERENCES	.1	ASTM C478M-2009, Specification for Precast Reinforced Concrete Manhole Sections.
	.2	ASTM C858-2019, Standard Specification for Underground Precast Concrete Utility Structures.
	.3	CAN/CGSB 51.34-M86, Vapour Barrier, Polyethylene Sheet for use in Building construction.
	. 4	CAN/CSA-A23.1-04/A23.2-09, Concrete Materials and Methods for Concrete Construction.
	.5	CAN/CSA-A3000-2008, Cementitious Materials.

.2 Submit manufacturer's test data and certification that materials meet requirements of this section. Include manufacturer's drawings, information, size of components, dimensions and details where pertinent.

PART 2 - PRODUCTS

2.1 MATERIALS .1 Precast manhole and catch basin sections: to ASTM C478M, circular. Manhole top sections shall be eccentric cone type where identified on Drawings. Precast concrete bases to be

Town of Three Rivers Queens Road Sidewalk Upgrades		PRECAST STRUCTURES	Section 33 39 00 Page 2
Contract 242652.00			February 2025
	.2	<pre>approved by Engineer. Joints: .1 To be made watertight rings or bitumineus gaskets</pre>	=
	.3	Mortar: .1 Cement: to CAN/CSA-A30	00.
	. 4	Adjusting rings: .1 Precast concrete, to A	STM C478.
	.5	Frames and covers: to dimensional following requirements: .1 Metal gratings and cover on frames. A frame with grace constitute one unit. Assemble components before shipment. .2 Gray iron castings: to a Bearing surfaces to be eliminate surface imperfects. 4 Manhole frames and cover municipal type for road servindicated on the drawings. .1 Acceptable product asphalt locations: IMF R10.	ers to bear evenly ting or cover to le and mark unit ASTM A48. ground to ions. ers: heavy duty vice and as
	.6	Catch basin frames and grate	es: IMP R-11.
	.7	Gravel bedding material: as Section 31 23 10.	specified in
	.8	Waterproofing Membrane: selmodified bitumen sheet membrane laminated polyethylene film recommended primer.	rane with cross
PART 3 - EXECUTION			
3.1 EXCAVATION AND BACKFILLING	.1	Provide excavating and back accordance with Section 31	
	.2	Obtain approval of Engineer installing, manholes or cate	
3.2 CONCRETE WORK	.1	Do concrete work in accordance 03 30 00.	nce with Section

.2 Position metal inserts in accordance with

mana e mbana Diana		DDGAGE GEDUGEUDDG	0
Town of Three Rivers Queens Road Sidewalk Upgrades	F	PRECAST STRUCTURES	Section 33 39 00 Page 3
Contract 242652.00			February 2025
		dimensions and details as i	ndicated.
3.3 INSTALLATION	1	Construct units in accordar indicated, plumb and true t grade.	
	.2	Complete manholes and catch laying progresses.	n basins as pipe
	.3	Dewater excavation as direct and remove soft and foreign placing concrete base.	
	. 4	Set precast concrete base of granular bedding compact with Section 31 23 10.	
	.5	Set riser sections on preca joint watertight with O-rir bituminous gaskets.	
	.6	Plug lifting holes with nor	-shrink grout.
	.7	Place stub outlets at elevation indicated. Provide connection as indicated.	
	.8	Install manhole benching wh Drawings using concrete sui classification C-2 as speci	table for exposure
	.9	Install frames and covers of sections to elevation shown directed.	
	.10	Clean units of debris and f Remove fins and sharp proje debris from entering system	ections. Prevent
	.11	Apply waterproofing for sar indicated on drawings.	nitary manholes as
3.4 SYSTEM CLEANLINESS	.1	Upon manhole adjustment, redevice and all works associates to restoration around the manhole contractor shall provide all equipment, labour, incident control, etc., required to	ated with nole, the lasting testing tals, traffic

Town of Three Rivers	PRECAST STRUCTURES	Section 33 39 00
Queens Road Sidewalk		Page 4
Upgrades		
Contract 242652.00		February 2025

inspection of the system to verify its cleanliness. This inspection must be done in the presence of the Engineer.

3.5 MANHOLE TESTING (SANITARY ONLY)

- No test shall be carried out on a manhole structure until it has developed sufficient strength to withstand stresses produced by such test.
- .2 All incoming and outgoing sewers and service lines shall be plugged, the plugs restrained and the vacuum tester head placed on the manhole frame and sealed. A vacuum of 250 mm Hg shall then be drawn on the manhole and the time measured for the vacuum to drop to 225 mm Hg. This time shall not be less than 40 seconds for manhole diameters up to 1200 mm. For manholes deeper than 6 m, the test times shall be increased by 2 seconds per 300 mm of additional manhole depth.
- .3 Should any leakage take place, take necessary measures approved by the Consultant to make them completely watertight.

Town of Three Rivers	STORM SEWER	Section 33 42 13
Queens Road Sidewalk		Page 1
Upgrades		
Contract 242652.00		February 2025

PART 1 - GENERAL

1.1 RELATED SECTIONS	1	Excavating and Backfilling: Section 31 23 10.
	.2	Precast Structures: Section 33 39 00.
1.2 REFERENCES	1	American Society for Testing and Materials (ASTM).
	.2	ASTM C 14M-20, Standard Specification for Concrete Sewer, Storm Drain and Culvert Pipe.
	.3	ASTM C 76M-20, Standard Specification for Reinforced Concrete Culvert, Storm Drain and Sewer Pipe.
	. 4	ASTM C 443M-20, Standard Specification for Joints for Circular Concrete Sewer and Culvert Pipe, Using Rubber Gaskets.
	.5	ASTM D 698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (600 kN-m/m3).
	.6	Canadian Standards Association (CSA)
	.7	CSA B182.1 and B182.2 for PVC Sewer Pipe, SDR=35.
	.8	CAN/CSA-A257 Series-M92, Standards for Concrete Pipe.
	.9	Canadian General Standards Board (CGSB).
1.3 SAMPLES	1	Submit samples in accordance with Section 01 33 00- Submissions/Shop Drawings.
	.2	Inform Consultant at least 2 weeks prior to commencing work, of proposed source of bedding materials and provide access for sampling.
1.4 MATERIAL CERTIFICATION	.1	Submit manufacturer's test data and certification at least 2 weeks prior to

commencing work.

Town of Three Rivers Queens Road Sidewalk Upgrades	S	STORM SEWER	Section 33 42 13 Page 1
Contract 242652.00			February 2025
	.2	Certification to be marked or	n pipe.
1.5 DELIVERY, STORAGE AND HANDLING	.1	Contractor to deliver, store materials in accordance with Requirements or DTI standards	Product
1.6 WASTE MANAGEMENT AND DISPOSAL	.1	Separate and recycle waste maindicated by Consultant.	aterials as
	.2	Place materials defined as hawaste in designated contained	
	.3	Ensure emptied containers are stored safely for disposal as children.	
PART 2 - PRODUCTS			
2.1 PIPE	.1	Concrete Pipe and Fittings: .1 Reinforced: to ASTM C 7 A257.22 Joints: bell and spigot rubber gaskets to CAN/CSA A25	with flexible
	.2	PVC Pipe and Fittings (300 mr smaller): .1 Type PSM polyvinyl chlo B1800, DR35, complete with Be joints with locked in rubber	ride, to CAN/CSA- ell and Spigot
	.3	HDPE Pipe and Fittings: .1 Double walled HDPE pipe walled interior and corrugate 320 Kpa. To CSA B182.62 Joints: bell and spigo rubber gaskets3 Connect to catch basins adaptor4 Acceptable products: S Soleno, Boss 200 by Big "0",	t with flexible with PVC manhole olflo Max by
2.2 GRANULAR BEDDING	.1	Sand bedding: as specified in	n Section

31 23 10.

AND BACKFILL

		Page 1
		February 2025
.2	Clear stone bedding: as sp 31 23 10.	pecified in Secti
1	Do trenching work in accommodate 23 10 - Excavating and	
.2	Obtain Consultant's appro- and depth prior to placing or pipe.	
1	Dewater excavation, as neo	- '
.2	Place minimum thickness of granular material on botto compact to minimum 98% max ASTM D 698.	om of excavation
.3	Shape bedding to fit lower exterior so that width of pipe diameter is in close bedding and to camber as directed by Consultant, finish points.	at least 25% of contact with indicated or as
. 4	Place bedding in unfrozen	condition.
1	Place approved backfill malayers to full width, alto side of culvert, so as not laterally or vertically.	ernately on each
.2	Compact each layer to 98% ASTM D 698 taking special required density under ha	care to obtain
.3	Protect installed culvert cover of compacted fill be equipment is permitted to construction, width of fill be at least twice diameter and with slopes not steepe	efore heavy cross. During ll, at its top, t r or span of pipe
. 4	Place clay plug as shown o	on drawings.
	1 .2 .3 .4 .1 .2	.1 Do trenching work in according 23 10 - Excavating and .2 Obtain Consultant's approximated depth prior to placing or pipe. .1 Dewater excavation, as new placement of culvert bedding2 Place minimum thickness or granular material on bottocompact to minimum 98% markstm D 698. .3 Shape bedding to fit lower exterior so that width of pipe diameter is in close bedding and to camber as addirected by Consultant, finigh points. .4 Place bedding in unfrozen .1 Place approved backfill markstale of culvert, so as not laterally or vertically. .2 Compact each layer to 98% ASTM D 698 taking special required density under harkstalled culvert cover of compacted fill be equipment is permitted to construction, width of filbe at least twice diameter and with slopes not steeped.