

Town of North Rustico



**Seawalk Park Boardwalk
Replacement**

Issued for Quotation

TITLE

SECTION

BIDDING AND CONTRACT REQUIREMENTS

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APPENDIX B

Seawalk Park Boardwalk Replacement - Sketch SK09

GENERAL

1.1 INFORMATION

- .1 This project includes demolition and removals of the existing timber boardwalk, disposing of the removed materials per local regulations, installing a new ¾in minus crusher fines granular wearing surface in the footprint of the removed timber boardwalk and reinstatement of any affected surfaces including topsoil and sod for grass surfaces and asphalt patching where tying into existing asphalt. The work must be substantially completed including reinstatement by June 12th at the latest to allow for sod to root prior to preparations for Canada Day festivities held annually in the park. This deadline will be critical as the park is the center of the Canada Day festivities. The contractor is responsible to confirm the location of all underground utilities prior to the beginning of work. The work is to be completed per the attached drawing and specifications. Timber products will be supplied by the owner for the Timber Ramp Extension/Transition Detail (Section C). Contractor to supply timber products for the New Timber Boardwalk (Section D). All fasteners to be supplied by the contractor (6in galv spikes for Section C) (3.5in galv spikes for Section D).
- .2 List of Drawings:
 - .1 SK09 Site Drawing and Sections
- .3 List of Specifications:
 - Section 32 11 23 - Granular & RAP Surface
 - Section 32 91 23 - Topsoil and Sod
 - Section 32 98 00 - Reinstatement
- .4 This quotation includes all work identified within the RFQ document including the drawing and specifications.
- .5 A non-mandatory site meeting will be held on April 24, 2026, at 1 p.m., at the subject site located at the Municipal Office 106 Riverside Drive, North Rustico PE.
- .6 The work must be substantially completed including reinstatement by June 12th, 2026 to allow for sod to root prior to preparations for Canada Day festivities held annually in the park. This deadline will be critical to the successful completion of the project.

1.2 DEFINITIONS

- .1 "Owner" means Town of North Rustico and includes the Owner's personal representatives or successors.

- .2 "Consultant" means CBCL Limited or its duly appointed representative or such other consultant as the Owner may appoint.
- .3 "Supplier" means a person, firm or corporation who proposes to submit, or who has submitted a quotation for the supply, installation and commissioning of equipment, or part thereof, referred to herein.
- .4 "Bidder" means the person or persons, firm or company, whose bid for the works will be accepted by the Owner pursuant to a General Contract. The successful Bidder becomes the "Contractor" upon award of the work.
- .5 "General Contract" is the undertaking of the parties to perform their respective duties, responsibilities and obligations as described in the Contract Documents and represents the entire agreement between the parties.
- .6 "Construction Period" means the period commencing award of the work and ending on the date when the work has been completed to the satisfaction of the Owner.
- .7 "Working Day" means any day excluding Saturday, Sunday, statutory holiday or statutory vacation day that is observed by the Owner's staff in the place of work. Access to the park by the Contractor outside those hours is not permitted unless authorized by the Owner.

1.3 QUOTATION SUBMISSION

- .1 Submit completed quotation for the work listed in the Form of Quotation in a sealed envelope marked as follows:

QUOTATION: Town of North Rustico
Seawalk Park Boardwalk Replacement
QUOTATION NO. 262610.00Q
and addressed to: Town of North Rustico
c/o CBCL Ltd.
135 St. Peters Road, Suite 201
Charlottetown, PE C1A 5P3
- .2 and must be delivered to the above address no later than 2:00:00 p.m., local time Thursday, April 30, 2026. Quotations received after the time so indicated shall be returned unopened. It is the responsibility of the bidder to ensure their submission is received by the aforementioned deadline.
- .3 Submit quotations on the Form of Quotation provided. Completely fill out forms in ink. The completed form shall be without interlineation, alterations, or erasures. Signatures must be witnessed.
- .4 No other form of Quotation will be acceptable. The appending of any qualifying clauses to the Quotation or failure to comply with

these instructions in the completing of any quotations renders such quotation liable to disqualification. The quotation as originally submitted shall be essentially complete to permit a full analysis without the need for additional information. The supplementary explanation is assumed or intended.

- .5 Quotation shall be valid for acceptance for a period of thirty (30) days from the date set for its delivery.
- .6 The Owner will not defray any expenses whatsoever incurred by Bidders in the preparation and submission of their quotations.
- .7 No fax or email submissions will be considered.

1.4 CLARIFICATION AND ADDENDA

- .1 Direct all questions in respect to the Quotation in writing to: jdoiron@cbcl.ca. Notify the Owner not less than three (3) working days before Closing of omissions, errors or ambiguities found in Contract Documents. If the Owner considers that correction, explanation or interpretation is necessary, a written addendum will be issued. All addenda will form part of Contract Documents. It is the responsibility of Bidder to ensure all addenda have been received.

1.5 PURPOSE AND PROCEDURE

- .1 The purpose of receiving quotations in accordance with these documents is to permit examination of a variety of Contractors on a comparable basis to select the contractor best fulfilling the Owner's requirements.
- .2 The procedure, in general, will be as follows:
 - .1 Receive and assess quotations. Request and receive additional information as necessary.
 - .2 Select Bidder.
 - .3 Notify successful Bidder and conduct correspondence as required.
 - .4 Owner places a Purchase Order to the Bidder and the Bidder becomes the Contractor. The Owner becomes responsible for paying the Contractor in accordance with Payment Schedule in the Form of Quotation.
 - .5 Request shop drawings, review, comment on and return shop drawings.
 - .6 The Contractor will carry out the work.

1.6 INFORMATION WITH QUOTATION

- .1 In addition to the Form of Quotation, the following may be requested by the Owner following Bid Closing.
 - .1 Particulars of Bidders Recent Contracts

- .2 Description of Equipment to be used on the project
- .3 Tentative Program of Works (Schedule)
- .4 Project Personnel to be used on the project

1.7 PRICES

- .1 The fixed quoted price shall be in Canadian dollars, and shall include and cover all materials, labour, equipment, transportation, disposal, permits, insurance, overhead, contingencies, provisional sums and all costs associated with completing the work to the satisfaction of the Owner.
- .2 Quoted price shall exclude Harmonized Sales Tax.
- .3 The Bidder shall submit the quotation on the Form of Quotation without any connection, comparison of figures with, or knowledge of any other corporation, firm or person making a quotation for similar system for this project and the proposal shall be in all respects fair and without collusion or fraud.

1.8 SHOP DRAWINGS AND PRODUCT INFORMATION MATERIAL

- .1 The Contractor shall submit to the Consultant for review, detailed shop drawings, product information and test results for the materials to be supplied as noted in the specifications. All documents to be supplied with metric units.
- .2 Electronic copies of shop drawings (in PDF file format) shall be submitted in their entirety for all items being supplied and shall be complete in every detail and show clear compliance with the specifications. Electronic copies shall be high quality and suitable for reproduction at 8.5" x 11" or 11" x 17" paper size. Submit original information in lieu of scanned copies. Illegible or low-quality shop drawings will be rejected. The Consultant will return a scanned copy of mark-ups with shop drawing stamp.
- .3 The Consultant will review, and mark comments as required on a single scanned electronic copy of the material and return them to the Contractor indicating "reviewed, no comment", "reviewed as noted", "revise and resubmit", "rejected", and the Owner will retain a digital copy. Review of shop drawings by the Consultant or Owner shall not relieve the Contractor of the responsibility for the correctness thereof nor for the results arising from any error or omission in details of the design. Resubmit all drawings marked "rejected" or "revise and resubmit".
- .4 After the drawings, information and material have been reviewed no change shall be made in them without the Consultant's written permission. In the event of any alterations or changes being authorized, a single electronic file of each of the final drawings and specifications indicating these changes shall be immediately furnished at the Contractor's expense.

- .5 The Owner will not accept responsibility for cost of changes necessary if any equipment is fabricated without prior review of shop drawings. Review of shop drawings does not relieve the Supplier of responsibility to meet the requirements of the specifications.
 - .6 The Contractor shall not ship for delivery any equipment to the job site until suitable reviewed shop drawings have been released by the Owner and until required factory testing is completed.
- 1.9 OPERATIONS AND MAINTENANCE MANUALS
- .1 NOT REQUIRED
- 1.10 INSURANCE
- .1 Maintain insurance in compliance with CCDC41, CCDC Insurance Requirements, Publication Date: December 14, 2020, appended to this RFQ.
 - .2 Provide proof of insurance to the Owner upon award of the work.
- 1.11 SERVICES REQUIRED AT SITE
- .1 The Contractor shall provide the services of a competent, fully trained personnel to complete the project.
- 1.12 EVALUATION OF QUOTATIONS
- .1 Quotations will be evaluated based on compliance with the specification, information submitted with the quotation, cost, completion time, experience and other factors, which may affect the overall cost and performance of the work.
 - .2 The evaluation may include information provided by the Bidder's references and may also consider the Bidder's past performance on previous contracts with the Owner.
- 1.13 AMENDMENT OR WITHDRAWAL OF QUOTATION
- .1 A Bidder who has already submitted a bid may submit a further bid at any time up to the official closing time. The last submission received shall supersede and invalidate all submissions previously submitted by that bidder for this RFQ. Any bidder may withdraw or qualify his/her submission at any time up to the official closing time by re-submitting a new bid to the Owner. The time and date of receipt will be marked thereon, and the new submission will be placed in the tender box. The new submission shall be marked on the sealed envelope by the Bidder as "Resubmission #" along with the name of the RFQ and to the attention of the Controller, as noted above in the RFQ. Bids may be withdrawn at any time prior to opening upon written request from the bidder. Negligence on the part of the bidder in

preparing his/her bid shall not constitute a right to withdraw a bid subsequent to the bid opening.

1.14 INFORMAL OR UNBALANCED QUOTATION

- .1 Quotations, which in the opinion of the Owner are considered to be informal or unbalanced, may be rejected.

1.15 RIGHT TO ACCEPT OR REJECT ANY QUOTATION

- .1 The Owner will select the Bid that is in the best interests of the Owner. The low quotation will not necessarily be selected by the Owner. The Owner reserves the right to reject any or all Quotations.

1.16 QUOTATION OPENING

- .1 The opening of this RFQ will be public at the location of quotation submission identified above and will take place immediately after quotation closing time.

1.17 AWARD

- .1 The RFQ shall be awarded as soon as practical after the bid opening.

1.18 SAFETY

- .1 Observe construction safety measures of Provincial Government, including but not limited to the Occupational Health and Safety Act, Workers' Compensation Board and Municipal authority provided that in any case of conflict or discrepancy the more stringent requirement shall apply.
- .2 Ensure that volatile waste is stored in closed containers and removed from premises daily.
- .3 WHMIS: Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage, and disposal of hazardous materials; and regarding labelling and provision of safety data sheets (SDS) acceptable to Labour Canada and Health and Welfare Canada.

1.19 ENVIRONMENTAL PROTECTION

- .1 Ensure that pollution and environmental control of construction activities are exercised as specified and as required during the Work.

1.20 CONTRACT TERMS

- .1 The contract terms shall be in accordance with the General Conditions of the Civil Works Contract (CCDC 18-2023) and the information herein.

- .2 The contract documents include:
 - .1 Information to Bidders
 - .2 Form of Quotation
 - .3 General Conditions of the Civil Works Contract (CCDC 18-2023)
 - .4 Insurance Requirements
 - .5 Drawings
 - .6 Technical Specifications

1.21 SUBSTANTIAL PERFORMANCE OF THE WORK AND PAYMENT OF HOLDBACK

- .1 The Owner will review the Work to certify or verify the validity of the application for Substantial Performance of the Work and will promptly, and in any event, no later than twenty (20) calendar days after receipt of the Contractors application:
 - .1 advise the Contractor in writing that the Work or the designated portion of the Work is not substantially performed and give reasons why, or
 - .2 state the date of Substantial Performance of the Work or a designated portion of the Work in a certificate and issue a copy of that certificate to each of the Owner and the Contractor.
- .2 Subject to the requirements of any Payment Legislation, all holdback amount prescribed by the applicable lien legislation for the Work shall become due and payable to the Contractor no later than ten (10) Working Days following the expiration of the holdback period stipulated in the lien legislation applicable to the Place of the Work.
- .3 The Contractor shall submit an application for payment of the lien holdback following expiration of the holdback period.
 - .1 Submit a certificate by lien search to the Owner by a solicitor licensed to practice law in the Place of the Work, certifying that no lien associated with the Work exists against the Owner's property or Work;
 - .2 Submit a clearance letter from the Worker's Compensation Board or provincially equivalent regulatory body;
 - .3 All such documents shall be dated not earlier than the expiry of the lien period as stipulated by the lien legislation in the Place of the Work.

1.22 CONTRACT SECURITY

- .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 Total Amount Payable or an Irrevocable Letter of Credit in the amount of 20% of the Total Amount Payable. The Irrevocable Letter of Credit shall be issued

by a certified financial institution for a period of no less than twelve (12) months after the issue of Substantial Performance Certificate. Include the cost of providing the Irrevocable Letter of Credit in Contract Price. Should it become apparent that the final cost of the project will exceed the Total Amount Payable by more than 10%, the Contractor shall arrange to have their bonds or Irrevocable Letter of Credit reissued, based on the projected final cost. The contract security will be retained until the expiration of the warranty period.

1.23 CHANGES IN THE WORK

- .1 The markup on agreed upon changes are as follows:
 - .1 Work performed by the Contractor's own forces will be the cost of the Work plus ten (10%) percent overhead and profit.
 - .2 Work performed by the Subcontractor's force will the cost of the Work plus 15% overhead and profit. Where the Work can be done by the Contractor's forces, as solely determined by the Consultant, but is done by the Subcontractor's forces, the markup for overhead and profit will be limited to ten (10%) percent.
- .2 Before approval of any change order over \$1,000.00 in value, the Owner is entitled to receive, upon request, at a minimum, the following breakdown of cost associated with such change order:
 - .1 Labour rates excluding operators
 - .2 Equipment rates including operators
 - .3 Supervisory staff rates
 - .4 Material or equipment invoices where applicable
 - .5 Subcontractor and material or equipment invoices where applicable.
- .3 No compensation for extra Work or material shall be allowed unless the consultant issues a Notice in Writing authorizing such Work or material to be ordered in the form of a Change Order, Change Directive, or Supplemental Instruction.
- .4 No compensation will be allowed for the cost of repairs to Construction Equipment of any kind on the Site except as directed by the Consultant in writing.
- .5 The price applicable to any Work deleted from the Contract, shall be deducted from the Contract Price and shall be mutually agreed upon by the Contractor and the Consultant. The price shall be comparable to prices quoted on Work of similar nature.

END OF SECTION 00 21 14

1. QUOTATION FORM

1.1 SALUTATION

- .1 To: Town of North Rustico
c/o CBCL Ltd
135 St. Peters Road, Suite 201
Charlottetown, PE C1A 5P3
- .2 For: Seawalk Park Boardwalk Replacement
Quotation 262610.00Q
- .3 From: _____

1.2 DECLARATION

- .1 We, the undersigned Bidder, having carefully examined the Quotation Documents in respect to work listed in the Quotation Form, and Specifications herewith submit in accordance with the terms set out in the documents our quotation for the specified work.
- .2 We declare that our quotation for the equipment and installation is made without any connection, comparison of figures, or arrangements with or knowledge of any other corporation, firm or person making a quotation for this project and is in all respects fair, without collusion or fraud.
- .3 We undertake to keep our quotation valid and open for acceptance for a period of thirty (30) days after the closing date for submission of quotations.

1.3 QUOTATION BREAKDOWN

- .1 The price quoted shall be in Canadian dollars and shall include all costs associated with work and shall exclude Harmonized Sales Tax.

<u>ITEM</u>	<u>UNIT</u>	<u>QTY</u>	<u>UNIT PRICE</u>	<u>EXTENDED PRICE</u>
MOBILIZATION AND DEMOBILIZATION	LS	1	_____	_____
DEMOLITION AND REMOVALS	LS	1	_____	_____
CRUSHER FINES GRAVEL PATH	M	190	_____	_____
TIMBER RAMP EXTENSION/TRANSITION	EA	2	_____	_____

Town of North Rustico
Seawalk Boardwalk Replacement
North Rustico, PEI
Contract No. 262610.00Q

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<u>ITEM</u>	<u>UNIT</u>	<u>QTY</u>	<u>UNIT PRICE</u>	<u>EXTENDED PRICE</u>
REINSTATEMENT	LS	1	_____	_____
<u>PROVISIONAL ITEMS:</u>				
REPAIRS EXISTING TIMBER RAMP	LS	1	_____	_____
TIMBER BOARDWALK NEAR BATHROOMS	LS	1	_____	_____
CLASS A GRANULAR	M3	16	_____	_____
SUBTOTAL			\$ _____	
ADD HST (15%)			\$ _____	
TOTAL AMOUNT PAYABLE			\$ _____	

Date of Substantial Completion of the Work: June 12th, 2026

PAYMENT

2.1

PAYMENT SCHEDULE

- .1 Payment to the Contractor shall be by the Owner based on Progress Estimates submitted by the Contractor and agreed to by the Consultant.
- .2 Payment shall be subject to the Mechanics Lien legislation for the Province of PEI therefore a holdback of 15% shall be applied to each payment.

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Seawalk Boardwalk Replacement
North Rustico, PEI
Contract No. 262610.00Q

QUOTATION FORM

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SIGNATURES

3.1

SIGNATURES

DATED THIS _____ DAY OF _____,
20____.

NAME OF FIRM QUOTING

[SEAL]

ADDRESS

TELEPHONE

ADDRESS

FAX

SIGNATURE

NAME AND TITLE (PRINTED)

SIGNATURE

NAME AND TITLE (PRINTED)

WITNESS

NAME AND TITLE (PRINTED)

*NOTE: QUOTATIONS SUBMITTED BY OR ON BEHALF OF ANY CORPORATION MUST BE SIGNED
IN THE NAME OF SUCH CORPORATION BY A DULY AUTHORIZED OFFICER OR AGENT, WHO
SHALL ALSO SUBSCRIBE OWN NAME AND OFFICE. AFFIX SEAL.

END OF SECTION 00 41 01

PART 1 - GENERAL

1.1 REFERENCES

- .1 ASTM C117-23, Test Method for Material Finer Than 0.075 mm Sieve in Mineral Aggregates by Washing.
- .2 ASTM C131-20, Test Method for Resistance to Degradation of Small Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine.
- .3 ASTM C136-25, Method for Sieve Analysis of Fine and Coarse Aggregates.
- .4 ASTM D698-12(2021), Test Methods for Moisture Density Relations of Soils and Soil Aggregate Mixtures Using 2.49 kg Rammer and 304.8 mm Drop.
- .5 ASTM D4318-17e1, Test Method for Liquid Limit, Plastic Limit and Plasticity Index of Soils.CAN/CGSB-8.2-M88 (R10/3), Sieves Testing, Woven Wire, Metric.
- .6 ASTM D1557-12(2021), Test Methods for Moisture Density Relations of Soils and Soil Aggregate Mixtures Using 4.54 kg Rammer and 457 mm Drop.
- .7 ASTM D1883-21, Test Method for CBR (California Bearing Ratio) of Laboratory Compacted Soils.
- .8 ASTM D2922-05, Standard Test Method for Density of Soil and Soil Aggregate in Place by Nuclear Methods.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Crusher fines: hard, durable, crushed fine product, free from clay, organics and other deleterious matter graded 9.5 mm minus with binder fines. Source material with a reddish grey to reddish brown color.
- .2 Reclaimed Asphalt Pavement (RAP): Material to meet PEI DTI General provisions and contract specifications for highway construction Division 704, cold plane, stockpile, and replace RAP.

PART 3 - EXECUTION

3.1 INSPECTION OF UNDERLYING SUB-BASE

- .1 Place granular surface after surface is inspected and approved by Consultant.

- .2 Underlying material to be compacted to 100% of Standard Proctor Density to ASTM D698

3.2 PLACING

- .1 Ensure no frozen material is used in placing.
- .2 Place material only on clean unfrozen surface, properly shaped and compacted and free from snow and ice.
- .3 Place aggregate in uniform layers not exceeding 150 mm compacted thickness or as directed by the Consultant.
- .4 Shape each layer to smooth contour and compact to specified density before succeeding layer is placed.
- .5 Remove and replace that portion of layer in which material becomes segregated during spreading.

3.3 COMPACTION EQUIPMENT

- .1 Vibratory compaction equipment must be used and capable of obtaining required densities on aggregates on project.

3.4 COMPACTING

- .1 Compact to density not less than 100% corrected maximum dry density.
- .2 Shape and roll alternately to obtain smooth, even and uniformly compacted base.
- .3 Apply water as necessary during compacting of granular to obtain specified density. If aggregate is excessively moist, aerate by scarifying with suitable equipment until moisture content is corrected.
- .4 In areas not accessible to rolling equipment, compact to specified density with vibratory mechanical tampers approved by Consultant.
- .5 Density will be determined according to ASTM D2922.

3.5 FINISH

- .1 Finished granular surface and RAP to be within plus or minus 12 mm of established grade and cross section but not uniformly high or low.
- .2 Correct surface irregularities by loosening and adding or removing material until surface is within specified tolerance.

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Seawalk Boardwalk Replacement
North Rustico, PEI
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GRANULAR & RAP SURFACE

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3.6 MAINTENANCE

- .1 Maintain finished base in condition conforming to this section until acceptance by Consultant.

END OF SECTION 32 11 23

PART 1 - GENERAL

1.1 WORK INCLUDED

- .1 This section specifies requirements for providing topsoil and sod as specified.
- .2 Additional topsoil to be obtained from an off-site source as approved by the Owner's Representative.

1.2 REFERENCE STANDARDS

- .1 Fertilizers Act (R.S.C., 1985, c. F-10).
- .2 Fertilizers Regulations (C.R.C., c. 666).

1.3 SOURCE QUALITY CONTROL

- .1 Obtain approval from the Owner's Representative of sod at source.
- .2 When proposed source of sod is approved, use no other source without written authorization.
- .3 Advise the Owner's Representative of source of topsoil to be used 7 days in advance of starting work.
- .4 Contractor is responsible for soil analysis requirement for amendments to topsoil as specified.

1.4 SCHEDULING

- .1 Schedule sod laying to coincide with preparation of soil surface.
- .2 Schedule sod installation after frost has left ground and before June 30 or between August 15 and September 30.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Topsoil:
 - .1 Friable loam, neither heavy clay nor of very light sandy nature, containing minimum 4% organic matter for clay loam, and 2% for sandy loam, to maximum 20% by volume.
 - .2 Containing no toxic elements or growth inhibiting materials.
 - .3 Free from debris, subsoil, vegetation, and stones and roots over 50 mm diameter.
- .2 Soil amendments:
 - .1 Peatmoss:

- .1 Derived from partially decomposed species of Sphagnum Mosses.
- .2 Elastic and homogeneous, brown in colour.
- .3 Free of wood and deleterious material which could prohibit growth.
- .4 Shredded particle minimum size: 5mm.
- .2 Limestone:
 - .1 Ground agricultural limestone containing minimum calcium carbonate equivalent of 85%.
 - .2 Gradation requirements: percentage passing by weight, 90% passing 1.0mm sieve, 50% passing 0.125mm sieve.
- .3 Fertilizer:
 - .1 Complete, commercial, with 35% soluble nitrogen.
 - .2 Number One Turfgrass Nursery Sod: Sod that has been especially sown and cultivated in nursery fields as turfgrass crop.
 - .1 Turfgrass Nursery Sod: Number One Kentucky Bluegrass Sod - Fescue Sod grown solely from seed mixture of cultivars of Kentucky Bluegrass and Chewing Fescue or Creeping Red Fescue, containing not less than 40% Kentucky Bluegrass cultivars and 30% Chewing Fescue or Creeping Red Fescue cultivar(s).
 - .2 Turfgrass Nursery Sod quality:
 - .1 Not more than 2 broadleaf weeds or 10 other weeds/40 m2.
 - .2 Density of sod sufficient so that no soil is visible from height of 1500 mm when mown to height of 40 mm.
 - .3 Mowing height limit: 35mm to 6mm.
 - .4 Soil portion of sod: 9 to 15mm in thickness.
- .4 Water: potable, free of impurities.
- .5 Fertilizer:
 - .1 To Canada "Fertilizers Act" and "Fertilizers Regulations".
 - .2 Complete, synthetic, slow release with 65% of nitrogen content in water-insoluble form.

PART 3 - EXECUTION

3.1 PREPARATION OF EXISTING GRADE

- .1 Verify that grades are correct. If discrepancies occur, notify the Owner's Representative and do not commence work until instructed by the Owner's Representative.

- .2 Grade soil, eliminating uneven areas and low spots, ensuring positive drainage.
- .3 Remove debris, roots, branches, stones in excess of 50 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 Course cultivate entire area which is to receive topsoil to depth of 100 mm. Cross cultivate those areas where equipment used for hauling and spreading has compacted soil.

3.2 PLACING AND SPREADING OF TOPSOIL

- .1 Place topsoil after the Owner's Representative has accepted subgrade.
- .2 Spread topsoil in uniform layers not exceeding 100 mm, over unfrozen subgrade free of standing water.
- .3 For sodded areas keep topsoil 15 mm below finished grade.

3.3 SOIL AMENDMENTS

- .1 Apply and thoroughly mix soil amendments and fertilizer into full specified depth of topsoil as determined by soil analysis.

3.4 FINISH GRADING

- .1 Grade to eliminate rough spots and low areas and ensure positive drainage. Prepare loose friable bed by means of cultivation and subsequent raking.
- .2 Consolidate topsoil to required bulk density using equipment approved by the Owner's Representative. Leave surfaces smooth, uniform and firm against deep footprinting.

3.5 ACCEPTANCE OF TOPSOIL

- .1 The Owner's Representative will inspect and test topsoil in place and determine acceptance of material, depth of topsoil and finish grading. Approval of topsoil material subject to soil testing and analysis.
- .2 All costs for soil testing and analysis to be borne by Contractor.

3.6 PREPARATION FOR SODDING

- .1 Do not perform work under adverse field conditions such as frozen soil, excessively wet or dry soil or soil covered with snow, ice, or standing water.

- .2 Fine grade surface free of humps and hollows to smooth, even grade, elevations indicated, to tolerance of plus or minus 9 mm for Turfgrass Nursery Sod, surface to drain naturally.
- .3 Remove and dispose of weeds; debris; stones 50 mm in diameter and larger; soil contaminated by oil, gasoline and other deleterious materials; off site.
- .4 Cultivate fine grade approved by the Owner's Representative to 25 mm depth immediately prior to sodding.

3.7 SOD PLACEMENT

- .1 Lay sod within 36 hours of being lifted.
- .2 Lay sod sections in rows, longitudinally, along contours of slopes, joints staggered. Butt sections closely without overlapping or leaving gaps between sections. Cut out irregular or thin sections with sharp implements.
- .3 Roll sod as directed by the Owner's Representative. Provide close contact between sod and soil by light rolling. Use of heavy roller to correct irregularities in grade is not permitted.

3.8 FERTILIZING PROGRAM

- .1 Fertilize during establishment and period of maintenance to following program:

Date	Rate	Ratio
May	70 kg/ha	3:0:0
July	70 kg/ha	3:1:3
September	25 kg/ha	1:2:3

3.9 MAINTENANCE DURING ESTABLISHMENT PERIOD

- .1 Perform following maintenance operations from time of installation until acceptance:
 - .1 Water sodded areas in sufficient quantities and at frequency required to maintain optimum soil moisture condition to depth of 75 to 100 mm.
 - .2 Cut grass to 40 mm when it reaches height of 65 mm. Remove clippings which will smother grass.
 - .3 Maintain sodded areas weed free.
 - .4 Fertilize areas in accordance with fertilizing program. Spread half of required amount of fertilizer in one (1) direction and remainder at right angles and water in well.

3.10 ACCEPTANCE

- .1 Turfgrass Nursery Sod areas will be accepted provided that:
 - .1 Sodded areas are properly established.

- .2 Sod is free of bare and dead spots and without weeds.
- .3 No surface soil is visible from height of 1500 mm when grass has been cut to height of 40 mm.
- .4 Sodded areas have been cut minimum 3 times, and within 24 hours prior to acceptance.
- .5 Fertilizing in accordance with fertilizer program has been carried out at least once.
- .2 Areas sodded in fall will be accepted in following spring one month after start of growing season provided acceptance conditions are fulfilled.

3.11 MAINTENANCE DURING WARRANTY PERIOD

- .1 Perform following operations from time of acceptance until end of maintenance period:
 - .1 Lime, fertilize and mow sodded areas in Spring after acceptance.
 - .2 Repair and resod dead or bare spots to approval of the Owner's Representative.
- .2 Grass warranty period shall be 12 months from acceptance.

END OF SECTION 32 91 23

PART 1 - GENERAL

1.1 SCOPE OF WORK

- .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 REQUIREMENTS

- .1 Section 32 91 23 - Topsoil And Sod.

1.3 REFERENCE STANDARDS

- .1 ASTM D698 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³)); 2012 (Reapproved 2021).
- .2 CSA A23.1/A23.2 - Concrete Materials and Methods of Concrete Construction/Test Methods and Standard Practices for Concrete; 2024.
- .3 PEI Department of Transportation and Infrastructure General Provisions and Contract Specifications of Highway and Bridge Construction, 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 Owner's Representative.

1.5 TRAFFIC PROVISIONS

- .1 Provide and maintain roadways, walkways and detours, for vehicular and pedestrian traffic, and access to fire hydrants, private property, alarms and emergency telephones.

1.6 PROTECTION

- .1 Prevent damage to structures, fencing, trees, natural features, bench marks, existing pavement, or surface or underground utility lines which are to remain. Make good any damage.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Roadways
 - .1 Select Borrow material in accordance with PEI DTI Standard Specifications Division 206 .
 - .2 Granular material: in accordance with PEI DTI Standard Specifications Division 401.
 - .3 Asphalt material: in accordance with PEI DTI Standard Specifications Division 603.
 - .1 Base course asphalt shall be Mix Type A.
 - .2 Seal course asphalt shall be Mix Type B.
- .2 Asphalt Trails
 - .1 Select Borrow material in accordance with PEI DTI Standard Specifications Division 206.
 - .2 Granular material: in accordance with PEI DTI Standard Specifications Division 401.
 - .3 Asphalt material: in accordance with PEI DTI Standard Specifications Division 603.
 - .1 Seal course asphalt shall be Mix Type B.
- .3 Asphalt Surfaces: in accordance with PEI DTI Standard Specifications Division 600.
- .4 Storm Sewer: Materials to match existing and in accordance with PEI DTI Standard Specifications Division 301.
- .5 Concrete surfaces: in accordance with PEI DTI Standard Specifications Division 1100.
- .6 Asphalt curbs: in accordance with PEI DTI Standard Specifications Division 606.
- .7 Granular material: in accordance with PEI DTI Standard Specifications Division 401.
- .8 Grass surface materials: as specified in nd Section 32 91 23 - Topsoil And Sod.

PART 3 - EXECUTION

3.1 GENERAL

- .1 Maintain surfaces to be reinstated level with adjoining existing surfaces gravel until final reinstatement.
- .2 Perform reinstatement work in accordance with the PEI DTI Standard Specifications and Contract Documents in all instances.

3.2 ROADWAYS AND ASPHALT TRAILS

.1 General

- .1 Carry out grading operations involving the subgrade during dry periods only.
- .2 Place the select borrow subbase over the subgrade immediately.
- .3 Direct surface water away from exposed areas.
- .4 Have a geotechnical engineer carry out the Department of Transportation and Infrastructure construction control testing requirements and ensure compliance with the general provisions and contract specifications for highway construction. Costs for geotechnical engineer shall be paid by the contractor and all test reports including witnessing of proof rolling shall be submitted to the Owner's Representative.
- .5 Mill existing asphalt that is to be removed and dispose off site.
- .6 Do not place material which is frozen or place material on frozen surfaces.
- .7 Compact roadway sub-base and base materials to a density of not less than 100% Standard Proctor density.

.2 Final reinstatement

- .1 Cut back broken edges of original pavement to full depth, in straight lines. Cut back 300 mm minimum from edge of excavation to eliminate tension cracks. Clean contact surfaces and apply tack coat before placing asphalt concrete.
- .2 Before placing final surface material, remove existing gravel to a depth indicated over disturbed area, grade and recompact. Add gravel to compacted depths indicated. Compact to not less than 100% Maximum Corrected Dry density.
- .3 Supply, place, roll and compact asphalt mixture in accordance with PEI DTI Standard Specifications.
- .4 Compact asphalt concrete in lifts not exceeding 50 mm in thickness.
- .5 Ensure finished surface is even, dense and matches grade of existing road or surface, as approved by the Owner's Representative.

.3 Finish Tolerances

- .1 Asphalt pavement finish tolerances to PEI DTI Standard Specifications Division 603.

3.3 ASPHALT SURFACES

- .1 Keep surface of asphalt paved roads and surfaces in good condition by repairing settlement of trench backfilling .
- .2 Carry out final reinstatement of asphalt surfaces as follows:
 - .1 Cut back broken edges of original pavement to full depth, in straight lines. Cut back 300mm minimum from edge of excavation to eliminate tension cracks. Clean contact surfaces and apply tack coat before placing asphalt concrete.
 - .2 Before placing final surface material, remove existing gravel to a depth indicated over disturbed area, grade and recompact. Add gravel to compacted depths indicated. Compact to not less than 100% Maximum Corrected Dry density.
 - .3 Supply, place, roll and compact asphalt mixture in accordance with PEI.
 - .4 Compact asphalt concrete in lifts not exceeding 50mm in thickness.
 - .5 Ensure finished surface is even, dense and matches grade of existing road or surface, as approved by the Owner's Representative.

3.4 ASPHALT CURBS

- .1 Asphalt for curbs to be shaped by forms or either wood or metal construction or by using an approved asphalt curb spreader. Hand finish surface when directed by the Owner's Representative.
- .2 Install curbs to the lines and grades indicated on the Drawings or as required to match existing lines and grades in the field.
- .3 The hot mix, hot placed asphalt curb shall be placed on a clean area that has previously been coated with an approved bituminous tack coat at the rate in accordance the PEI DTI Standard Specifications.

3.5 CONCRETE SURFACES

- .1 Carry out final reinstatement of concrete surfaces as follows:
 - .1 Cut back broken edges of original concrete to full depth, in straight lines.
 - .2 Before placing final surface material, remove existing gravel to a depth indicated over disturbed area, grade and recompact. Add gravel to compacted depths indicated. Compact to not less than 100% Maximum Corrected Dry density.
 - .3 Place and finish concrete in accordance with PE DTI Standard Specifications.

- .4 Ensure finished surface is even, dense and matches grade of existing road or surface, as approved by the Owner's Representative.
- .2 Forming
 - .1 Concrete for curb to be shaped by forms of either wood or metal construction or by use of a slip form paver. Extruding equipment and mule configuration to be approved before construction begins. Hand finish surface when directed by Owner's Representative.
 - .2 Form vertical surfaces to full depth using forming material that will not deform under loading by plastic concrete.
 - .3 Securely position forms to required lines and grades.
 - .4 Horizontal and vertical alignment of the forms prior to placing concrete must not vary more than 6 mm from the correct alignment and grade.
 - .5 Coat forms with approved form release agent.
- .3 Curing Concrete
 - .1 Apply curing compound to finished surfaces at a rate recommended by the manufacturer, as soon as the water sheen has left the concrete surface.
 - .2 Cure and protect concrete to CSA A23.1/A23.2 unless otherwise directed. Thirty days after concrete placement, sweep the curb/gutter clean and apply two coats 50/50 boiled linseed oil and kerosene to curb/gutter. Allow two (2) days between applications.
- .4 Tolerances
 - .1 Finish surfaces to within 3mm in 3m as measured with 3m straight edge place on surface.
- .5 Expansion and Contraction Joints
 - .1 Install tooled transverse contraction joints after floating, when concrete is stiff, but still plastic, at intervals of 15m.
 - .2 When sidewalk is adjacent to curb, make joints of curb, gutters and sidewalk coincide.
- .6 Finishing Concrete
 - .1 Finish exposed surfaces to a smooth uniform finish, free of open texturing and exposed aggregate. Do not work more mortar to surface than required. Do not use neat cement as a dryer to facilitate finishing.
 - .2 Round edges, including edges of joints, with 10mm radius edging tool.
 - .3 Finish surfaces to prevent ponding.

- .4 Immediately after floating, give sidewalk/curb surface uniform broom finish to produce regular corrugations not exceeding 2mm deep, by drawing broom in direction normal to centre line.
- .7 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 metre 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. Install joint dowels when connecting to existing concrete.
 - .5 Install isolation joints in centre an splitter islands as shown on the drawings.
 - .6 Install joint filler in isolation joints.
 - .7 Seal isolation joints with sealant approved by Owner's Representative.
- 3.6 GRAVEL SURFACES
 - .1 Reinstate gravel surfaces by placing 200mm compacted thickness of gravel at an elevation such that gravel surface is smooth and even with adjacent surfaces.
 - .2 Place and compact gravel for surfaces in accordance with the requirements of PEI Department of Transportation and Infrastructure Standard Specifications.
- 3.7 GRASS SURFACES
 - .1 Topsoil and Sod Placement: in accordance with Section 32 91 23 - Topsoil and Sod.
- 3.8 STORM SEWER
 - .1 Trenching
 - .1 Do trenching work in accordance with PE DTI Standard Specifications.

- .2 Obtain Owner's Representative's approval of trench line and depth prior to placing bedding material or pipe.
- .2 Bedding
 - .1 Dewater excavation, as necessary, to allow placement of bedding in the dry.
 - .2 Place minimum thickness of 150 mm of approved granular material on bottom of excavation and compact to minimum 98% maximum density to .
 - .3 Shape bedding to fit lower segment of pipe exterior so that width of at least 25% of pipe diameter is in close contact with bedding as indicated or as directed by Owner's Representative, free from sags or high points.
 - .4 Place bedding in unfrozen condition.
- .3 Backfilling
 - .1 Place approved backfill material in 150 mm layers to full width, alternately on each side of the pipe, so as not to displace it laterally or vertically.
 - .2 Compact each layer to 98% maximum density to ASTM D698 taking special care to obtain required density under haunches.
 - .3 Protect installed culvert with minimum 600 mm cover of compacted fill before heavy equipment is permitted to cross. During construction, width of fill, at its top, to be at least twice diameter or span of pipe and with slopes not steeper than 1:2.

END OF SECTION 32 98 00

Appendix A

CCDC 41 Insurance Requirements

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.

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Appendix B

Seawalk Park Boardwalk Replacement - Drawing C01

