

TOWN OF KENTVILLE CAPITAL 2024

SIDEWALK REHABILITATION & ROAD EXTENSION

Contract #2024-10

KENTVILLE, NS

Set No. __1___ June 2024

SIDEWALK REHABILITATI	ON & ROAD EXTENSION	
2024 KENTVILLE CAPITAL		
CONTRACT #2024-10	TABLE OF CONTENTS	JUNE 2024
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Town of Kentville: Sidewalk Rehabilitation & Road Extension

Owner / Engineer:

Town of Kentville 354 Main Street Kentville, NS B4N 1K6

1. Tender Submission

.1 Submit completed tender form for above project in sealed envelope marked as follows:

Tender for: "Town of Kentville: Sidewalk Rehabilitation & Road Extension"

Closing: 2:01pm local time Thursday, June 13, 2024, at the Town of Kentville office.

Town of Kentville Attn: Dave Bell, P.Eng. Director of Engineering & Public Works 354 Main Street, Kentville, NS B4N 1K6 P: 902-679-2521

2. Safety Certification

- .1 Submit with tender a copy of tenderer's current and valid safety accreditation issued by Nova Scotia Workers' Compensation Board or Certificate of Recognition (COR) issued by Construction Safety Nova Scotia.
- .2 Out-of-province tenderers with a current and valid COR from a Canadian Federation of Construction Safety Associations member shall obtain and submit a current and valid Letter of Good Standing from Construction Safety Nova Scotia.

3. Workers' Compensation

- .1 Submit with tender a copy of tenderer's current and valid clearance letter issued by the Workers' Compensation Board of Nova Scotia.
- .2 Out-of-province tenderers shall submit a current and valid clearance letter from a government workers' compensation board but must register with the Nova Scotia Workers' Compensation Board prior to being awarded the Contract.

4. Tender Opening

- .1 Tenders will be opened on Thursday, June 13, 2024 at 2:01pm at the Kentville Town Office at 354 Main Street.
- .2 Tender amendments will be disclosed at public openings.

5. Document Fee

.1 Firms must register with the Town of Kentville or their tender will be considered invalid. To receive full tender documents contact 902-679-2521 or email <u>dbell@kentville.ca</u> and tender documents will be issued in digital format at no charge. Paper documents are also available for a fee of \$100.00 payable to Town of Kentville.

6. Accuracy of Referencing

- .1 Indexing and cross-referencing are for convenience only.
- 7. Conditions of Tendering
 - .1 Take full cognizance of content of all Contract Documents in preparation of tender. Refer to Section 00 41 43 Tender Form, Subsection 3.9 for a complete list of Contract Documents.

8. Tenderers to Investigate

.1 Tenderers will be deemed to have familiarized themselves with existing site and working conditions and all other conditions which may affect performance of the Contract. No plea of ignorance of such conditions as a result of failure to make all necessary examinations will be accepted as a basis for any claims for extra compensation or an extension of time.

9. Clarification and Addenda

- .1 Notify Engineer not less than two (2) Working Days before tender closing of omissions, errors or ambiguities found in Contract Documents. If Engineer considers that correction, explanation or interpretation is necessary, a written addendum will be issued. All addenda will form part of Contract Documents.
- .2 Confirm in the tender form that all addenda have been received. Tenderers are solely responsible to obtain and acknowledge the receipt of addenda at time of tender closing.

10. Preparation of Tender

- .1 Legibly complete tender form provided with Project Documents. Tender all items and fill in all blanks. Have corrections initialed by person signing tender.
- <u>11. Taxes</u> .1 Include all taxes in prices except Harmonized Sales Tax (HST).

12. Tender Security

.1 Provide tender security in the minimum amount of ten percent (10%) of total price including HST. Provide security with tender in the form of a certified cheque or money order payable to the Owner, a bid bond on CCDC Form 220, or other Owner-approved form.

13. Contract Security

.1 Refer to Section 00 72 45 – General Conditions, subsection GC11.2 – CONTRACT SECURITY for form of contract security. Refer to Project Documents for amount of contract security.

14. Insurance

.1 Refer to Section 00 72 45, General Conditions, subsection GC11.1 - INSURANCE, for insurance requirements.

15. Form of Agreement

- .1 Form of Agreement is attached for information purposes only until execution of the Contract.
- 16. Return of Tender Security
 - .1 Tender security will be returned to:
 - .1 All except the three lowest acceptable tenderers within five (5) Working Days of tender opening.
 - .2 Two (2) remaining unsuccessful tenderers within ten (10) Working Days of date of award.
 - .3 Successful tenderer following receipt by Owner of executed agreement, specified contract security, and insurance documents.

17. Amendment or Withdrawal of Tender

- .1 Tenders may be amended or withdrawn prior to tender closing.
- .2 Amendment of individual Unit Prices is the only acceptable price amendment. Amendments shall not disclose either original or revised total price.
- .3 Head amendment or withdrawal as follows: "[Amendment/Withdrawal] of tender for [Name of Project/Contract] [Contract number, if applicable]". Sign as required for tender, and submit at address given for receipt of tenders. In order to be considered, submissions shall be received prior to time of tender closing.

18. Offer, Acceptance, Rejection

- .1 The Owner reserves the right to accept or reject any tender and to cancel the tendering process and reject all tenders at any time prior to the award of Contract without incurring any liability to affected tenderers.
- 18. Contingency Allowance
 - .1 A contingency allowance is included in Section 00 41 43. This amount covers any cost for extra work as directed by the Engineer which is not included in the items in the Schedule of Quantities and Unit Prices.
- 19. On-Site Materials
 - .1 On-site materials will only be paid for as they are incorporated in the works.
- <u>20. Time</u> .1 Time is considered to be of the essence.

21. Project Schedule

- .1 The project <u>*MUST*</u> be completed on or before September 30, 2024.
- <u>22. Safety</u> .1 Safety shall be of primary importance at all times and the current safety regulations of the Nova Scotia "Occupational Health and Safety Act" must be adhered to at all times.

23. Procurement Policy

.1 All contracts must be awarded in a manner that is transparent, competitive, and consistent with value for money principles and meet NS Procurement policies.

DELETE: RECORD DRAWINGS General Requirements, Section 01 10 00, Subsection 8.1 and 8.2

<u>ADD:</u>

24. As-built Records/Drawings

.1 Record information is the responsibility of the contractor. The contractor will provide the Town of Kentville with a coordinate file in NAD83 UTM format containing survey grade 3D points for every fixture, including valves, bends, tees, services at main and property line, MH tops and inverts, hydrant tops, centerline, shoulder, and ditch points (where applicable). Main lines are to be located at a minimum measurement of 30 m.

1. SALUTATION:

.1	То:	TOWN OF KENTVILLE
		354 MAIN STREET
		KENTVILLE, NS B4N 1K6
.2	For:	CONTRACT #2024-10
		2024 KENTVILLE CAPITAL WORKS
		SIDEWALK REHABILITATION & ROAD EXTENSION
.3	From:	

2. TENDERER DECLARES:

- .1 That this tender was made without collusion or fraud.
- .2 That the proposed work was carefully examined.
- .3 That the tenderer was familiar with local conditions.
- .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 excluding Harmonized Sales Tax (HST).
- .3 That this tender is valid for acceptance for 60 days from tender closing.
- .4 That measurement and payment for items listed in Subsection 4 hereunder shall be in accordance with corresponding items in Section 01 22 00 Measurement and Payment.

- .5 To execute in triplicate the Form of Agreement and forward same together with the specified contract security and insurance documents to the Owner within ten (10) Working Days of written notice of award.
- .6 That failure to enter into a formal contract and provide specified insurance documents and contract security within time required will constitute grounds for forfeiture of tender security.
- .7 That if tender security 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.
- .8 That Contract Documents include:
 - .1 Standard Specification for Municipal Services listed in Table of Contents Page Dated May 2023.
 - .2 Tender Form
 - .3 Form of Agreement
 - .4 Supplementary Specifications
 - .5 Drawings

Drawing	Plan #	Latest Revision
Cover		
Prospect Ave Sidewalk Rehabilitation	C101	May 14, 2024
0+000 TO 0+052 Prospect Ave Extension	C102	May 14, 2024
MacDonald Ave Top Lift of Pavement	C103	May 14, 2024
Belcher Street Sidewalk Rehabilitation	C104	May 14, 2024
Details	C105	May 14, 2024

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

2024	WALK REHABILITATION & ROAD EXTENSION KENTVILLE CAPITAL FO TRACT #2024-10	RM OF TENI	DER		SECTION 00 41 PAGE JUNE 20
4. S(CHEDULE OF QUANTITIES AND UNIT PRICES				
TEM NO.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
	SPECT AVE. SIDEWALK & CURB REHABILITATION Removals & Replacements	ON			
0.	Remove existing aspalt sidewalk, curb & 150mm subbase material	ls	100%		
I	Replace Exisitng Asphalt Curb &sidewalk				
20.	Sidewalk Re-construction				
	Prepare and make ready subbase including asphalt removal, scarifying, shaping,				
	fine grading, tackcoat, manhole cover and				
	valvebox adjustment and all else necessary to complease the work specifies and/ or shown on the	e drawing			
.1	Type 1 Gravel base (± 150mm thick) compacted				
	in place	m ³	35		
.2	Concrete straight back curb Including asphalt				
.3	removal and reinstatement 65mm HMAC sidewalk Including driveway and	m	150		
.ა	landscape reinstatement	m²	220		
	1				

TOTAL

SIDEWALK REHABILITATION & ROAD EXTENSION 2024 KENTVILLE CAPITAL CONTRACT #2024-10	N FORM OF TENDER		SECTION 00 41 43 PAGE 4 JUNE 2024
4. SCHEDULE OF QUANTITIES AND UNIT PRICE ITEM DESCRIPTION NO.	S UNIT OF ESTIMATED MEASURE QUANTITY	UNIT PRICE	TOTAL PRICE

MACDONALD AVE, HENRY STREET & BRAESIDE DRIVE TOP LIFT PAVEMENT

40. Road Pavement Prepare and make ready top lift of surface course asphalt, tack coat, manhole cover and valve box adjustment and all else necessary to complete the works as specified and/or as shown on the drawings.

.1 Type C-HF 35 mm

tonnes

540

TOTAL

2024	EWALK REHABILITATION & ROAD EXTENSION 4 KENTVILLE CAPITAL FO 1TRACT #2024-10	RM OF TEN	DER		SECTION 00 41 43 PAGE 5 JUNE 2024
ITEN	SCHEDULE OF QUANTITIES AND UNIT PRICES		ESTIMATED	UNIT	TOTAL
NO. BEL	CHER STREET SIDEWALK REHABILITATION Removals % Replacements	MEASURE	QUANTITY	PRICE	PRICE
10.	Remove existing aspalt sidewalk & 150mm subbase material	ls	100%		
30.	Sidewalk Re-construction Prepare and make ready subbase including asphalt removal, scarifying, shaping, fine grading, tackcoat, manhole cover and valvebox adjustment and all else necessary to complete the work specifies and/ or shown on the d patch paving and all else to complete the work as specified and as shown on the drawings.	rawing			
.1 .2	Type 1 Gravel base (± 150mm thick) compacted in place 65mm HMAC sidewalk Including driveway and	m ³	55 _		
	landscape reinstatement	m²	350 _		

TOTAL

SIDEWALK REHABILITATION & ROAD EXTENSION 2024 KENTVILLE CAPITAL FC CONTRACT #2024-10	ORM OF TENDE	R		SECTION 00 41 43 PAGE 6 JUNE 2024
4. SCHEDULE OF QUANTITIES AND UNIT PRICES ITEM DESCRIPTION NO.	UNIT OF ES		UNIT PRICE	TOTAL PRICE
STREET CONSTRUCTION Prospect Aveune Extension				
40. Road Reconstruction Prepare and make ready subase including asphalt removal, scarifying, shaping, fine grading, tack coat, manhole cover and valve box adjustment and all else necessary to complete the works as specified and/or as shown on the drawings.				
 .1 Type II gravel (250mm) compacted .2 Type I gravel (150mm) .3 landscape reinstatement .4 Type C-HF 35mm (2025) 	m ³ m ³ tonnes tonnes	120 70 70 40	NIC	NIC
 41. Curb Remove, topsoil, organics, place and compact subgrade gravel. .1 Curb & Gutter (Concrete) 	m	105 _	TOTAL	
			IUTAL	

SIDEWALK REHABILITATION & ROAD EXTENSION 2024 KENTVILLE CAPITAL FO CONTRACT #2024-10	ORM OF TENDER		SECTION 00 41 43 PAGE 7 JUNE 2024
4. SCHEDULE OF QUANTITIES AND UNIT PRICES ITEM DESCRIPTION NO.	UNIT OF ESTIMATED	UNIT PRICE	TOTAL PRICE
CONTRACT SUMMARY			
.1 PROSPECT AVE. SIDEWALK & CURB REHABIL	ITATION		
.2 MACDONALD AVE, HENRY STREET & BRAESIE	DE DRIVE TOP LIFT PAVEME	ENT	
.3 BELCHER STREET SIDEWALK REHABILITATIO	N		
.4 PROSPECT AVE. EXTENSION STREET CONST	RUCTION		
.5 CONTINGENCY			\$20,000.00
	Subtotal		
	HST (15% of \$	Subtotal)	
	Total Tender	Price	

5. COMPLETION TIME	
.1 Tenderer agrees to complete the W award.	Vork within weeks of written notification of
<u>6. SIGNATURES*</u>	
DATED THIS DAY OF	, 2024.
	[Seal]
	Name of Firm Tendering
Witness	Signature of Signing Officer
	Name and Title (Printed)
Witness	Signature of Signing Officer
	Name and Title (Printed)
Company Address	
Telephone No.	
Fax No.	
TENDERER'S HST REGISTRATION NO.	

TENDER FORM

SECTION 00 41 43

PAGE 8

JUNE 2024

SIDEWALK REHABILITATION & ROAD EXTENSION

2024 KENTVILLE CAPITAL

CONTRACT #2024-10

*NOTE: Tenders submitted by or on behalf of any Corporation must be signed in the name of such Corporation by a duly authorized officer(s) or agent(s).

These Supplementary General Conditions amend Section 00 71 00 DEFINITIONS and Section 00 72 45 - GENERAL CONDITIONS.

SECTION 00 71 00 - DEFINITIONS

1. Page 2, after definition for Project, add definition for Project Documents as follows:

Project Documents

Project Documents consist of those documents prepared to supplement the Standard Specification for the Work on a specific Project. Where applicable, they consist of the Information for Tenderers, Tender Form, Form of Agreement, Supplementary Specifications, drawings and addenda.

 Page 3, after definition for Specifications, add definition for Standard Specification as follows:

Standard Specification

The Standard Specification consists of Definitions, General Conditions, Supplementary General Conditions, Measurement and Payment, General Requirements, other technical specifications and standard details developed by the Nova Scotia Road Builders Association and the Consulting Engineers of Nova Scotia Joint Committee on Contract Documents and published with the title of Standard Specification for Municipal Services.

3. Page 3, after definition for Supplemental Instruction, add definition for Supplementary Specifications as follows:

Supplementary Specifications

Supplementary Specifications consist of the specifications for a specific project which amend or add to the Standard Specification.

4. Where the term "Consultant" is used throughout the General Conditions, revise to read "Engineer".

SECTION 00 72 45 - GENERAL CONDITIONS

5. GC5.4 BASIS OF PAYMENT FOR COST PLUS WORK

Page 16, delete clause 5.4.1 and replace with the following:

"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 __% for work done by the Contractor's own forces and % for work done by Subcontractors 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."

6. GC5.5 APPLICATIONS FOR PROGRESS PAYMENT

Page 17, delete clause 5.5.2 and replace with the following:

"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 at that date."

Page 18, delete clause 5.5.6.

7. GC5.6 PROGRESS PAYMENT

Page 18, delete clauses 5.6.1 and 5.6.2 and replace with the following:

- "5.6.1 The Consultant will issue to the Owner no later than five (5) Working Days after the receipt of an application for payment from the Contractor, submitted in accordance with GC 5.5 - APPLICATIONS FOR PROGRESS PAYMENT, a certificate for payment in the amount applied for, or 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 - PAYMENT of the Agreement no later than Fifteen (15) Working Days after the date of a certificate for payment issued by the Consultant."
- 8. GC5.10 FINAL PAYMENT

Page 19, clause 5.10.4, change "5 Working Days" to read "ten (10) Working Days".

9. GC10.1 TAXES AND DUTIES

Page 28, add the following clause 10.1.3:

"10.1.3 The Contractor will indicate on each application for payment, as a separate amount, the appropriate Harmonized Sales Tax 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."

10. GC10.2 LAWS, NOTICES, PERMITS AND FEES

Page 28, add the following clause 10.2.8:

- "10.2.8 Various areas of Nova Scotia have requirements for posting nonrefundable fees before excavations are carried out within public right-of-way. The Contractor is responsible for the determination of the requirement for each specific project and for the required deposits."
- 11. GC11.1 INSURANCE

Page 29, change \$2,000,000 policy limits to \$5,000,000 policy limits in clauses 11.1.1.1, 11.1.1.2 and 11.1.1.3.

Page 29, change \$2,500 deductible to \$5,000 deductible in clauses 11.1.1.1 and 11.1.1.4(1).

12. GC11.2 CONTRACT SECURITY

Page 31, add the following clause 11.2.3:

- "11.2.3 The Contractor shall supply a Performance Bond and a Labour and Material Payment Bond, each in the amount of fifty percent (50%) of the estimated Contract Price plus Harmonized Sales Tax. Should it become apparent that the final cost of the Work will exceed the estimated Contract Price by more than ten percent (10%), the Contractor shall arrange to have the Bonds reissued, based on the projected final Contract Price plus Harmonized Sales Tax."
- 13. GC12.1 INDEMNIFICATION

Page 31, change indemnification limits from \$2,000,000 to \$5,000,000, two places, in clause 12.1.2.

SIDEWALK REHABILITATION	& ROA	AD EXTENSION SECTION 01 10 00
2024 KENTVILLE CAPITAL CONTRACT #2024-10		GENERAL REQUIREMENTS PAGE 1 JUNE 2024
1. GENERAL	.1	This section specifies administrative, procedural and temporary requirements.
2. SUMMARY OF THE WORK	.1	Refer to Supplementary Specifications for summary description of the Work.
	.2 .3	The work completed under this contract includes the following: Replace Sidewalk and curb on the Prospect
	.4	Ave. from Academy St. to Church Ave. Construct Road extension at the end of Prospect from STA 0+000 To 0+052.
	.5	Pave the second lift on MacDonald Ave, Henry St. and Braeside Dr. Subdivision.
	.6	Replace Asphalt sidewalk on Belcher St. as in the drawing.
3. SCHEDULING AND COORDINATION	.1	Submit within five (5) Working Days of date of award detailed schedule for critical operations and performance of the Work by completion date. Revise, update and submit schedule as directed.
	.2	Schedule and perform the Work within hours and days established by authorities having jurisdiction in the Place of the Work.
	.3	If indicated in Project Documents, the Engineer will carry out necessary tests and inspections and will verify measurements required for record drawings so as not to cause delay.
	.4	Provide submittals and schedule delivery of products, as required, to meet the agreed schedule.
4. SETTING OUT THE WORK	.1	Refer to Project Documents for survey control points.
	.2	Set elevations and lay out the work in detail from control points.
5. EXISTING SITE CONDITIONS	.1	Before commencing the Work, notify Engineer if site conditions at the Place of the Work differ significantly from those indicated. Engineer will investigate and issue appropriate instructions.

SIDEWALK REHABILITATION	& ROA	AD EXTENSION	SECTION 01 10 00
2024 KENTVILLE CAPITAL CONTRACT #2024-10		GENERAL REQUIREMENTS	PAGE 2 JUNE 2024
	.2	Obtain utility locates before work.	commencing any
6. PROJECT MEETINGS	.1	Engineer will arrange project times and record and distribu	-

7. SUBMITTALS

7.1 Shop Drawings	.1	On shop drawings clearly show in detail the dimensions, materials of construction, finish, performance, service and installation requirements, and other pertinent information.
	.2	Check shop drawings prior to submission. Determine and verify all field measurements, field construction criteria, materials, catalogue numbers and similar data and check and coordinate each shop drawing with the requirements of the Work and Contract Documents. Sign and date each shop drawing to confirm compliance with above requirements.
	.3	Engineer will not review shop drawings where it is evident that they do not meet the requirements of 7.1.1 and 7.1.2 above.
	.4	Submit for review one (1) PDF copy of shop drawings or as indicated in Project Documents.
	.5	After review Engineer will return one (1) PDF copy of shop drawings or as indicated in Project Documents.
	.6	Make any corrections as noted, and resubmit, if required.
	.7	Do not proceed with work involving relevant products until completion of shop drawing review.
7.2 Samples	.1	Submit samples for review as required in Supplementary Specifications. Indicate locations of sources.
	.2	Do not deliver relevant products to site until completion of review.
7.3 Mix Design	.1	Submit mix design for concrete and asphalt materials as required in Supplementary Specifications.
7.4 Design Verification of Temporary Works	.1	Submit plans sealed by a professional engineer registered to practice in Nova Scotia for temporary works as required in Contract Documents.

SIDEWALK REHABILITATION		AD EXTENSION	SECTION 01 10 00	
2024 KENTVILLE CAPITAL CONTRACT #2024-10		GENERAL REQUIREMENTS	PAGE 4 JUNE 2024	
7.5 Operating and <u>Maintenance Data</u>	.1	Submit three (3) paper copies copy of the following prior t final payment: .1 General description, liss including nameplate informati operation and maintenance ins parts list. .2 Names, addresses and pho Sub-Contractors, suppliers an .3 Guarantees and warrantie	o application for st of equipment on, installation, tructions, and one numbers of d manufacturers.	
	.2	Type lists and notes. Use dra and manufacturer's literature		
7.6 Test Results	.1	Submit one (1) PDF copy of ce monitoring, test and inspecti indicated in Project Document	on reports or as	
8. RECORD DRAWINGS	.1	Obtain data necessary to prep drawings.	are record	
	.2	Do not bury pipework and appu portions of the Work until ne measurements have been taken.		
	.3	Procedure and responsibility Project Documents.	as indicated in	
9. QUALITY CONTROL	.1	Provide Owner and Engineer wi Work, and to locations where incorporated into the Work ar	products to be	
	.2	Cooperate with and assist Eng conducting necessary tests.	ineer in	
	.3	Notify Engineer in advance of tests and inspections.	requirements for	
	.4	Arrange for inspections or te other than the Engineer.	sts by authorities	
	.5	Do not bury pipework and appu portions of the Work until En that necessary tests or inspe completed.	gineer has advised	
	.6	Engineer may order any buried uncovered for examination. De be repaired by Contractor. If	fective work shall	

previously approved and no defects are found, Owner will reimburse Contractor's costs.

Owner will appoint and pay for services of .7 testing laboratory except for: .1 Inspection and testing required by laws, ordinances, rules and regulations. .2 Tests specified to be performed by Contractor. Inspection and testing performed .3 exclusively for convenience of Contractor.

Testing, adjustment and balancing of .4 mechanical and electrical equipment systems.

- 10. TEMPORARY
- Obtain all approvals required for the disposal .1 of sanitary sewage from any facilities including offices, washrooms and bunkhouses.

.2 Access:

.1 Provide and maintain adequate access to project site.

.2 Build and maintain temporary roads and walks as required.

Provide access for pedestrians to .3 property and premises adjacent to the Work.

Engineer's Site Office: .3

Provide Engineer's site office, when .1 required by Project Documents, as follows: .1 Minimum floor area of ten square metres.

> .2 Heat, air conditioning, light and internet connection.

.3 Desk: 1.0 x 1.5 m plan table, shelving and a four-drawer lockable filing cabinet.

.2 Maintain in clean condition.

Remove when no longer required by .3 Engineer but not later than attainment of Substantial Performance of the Work.

- Provide and maintain sanitary facilities for .4 site personnel.
- .5 Remove temporary facilities from site when no longer required.
- .6 Temporary power will be provided by the party identified in the Supplementary Specifications.

SITE FACILITIES

SIDEWALK REHABILITATION & ROAD		AD EXTENSION	SECTION 01 10 00
2024 KENTVILLE CAPITAL CONTRACT #2024-10		GENERAL REQUIREMENTS	PAGE (JUNE 2024
		Coordinate with electrical utili installing temporary power.	ty when
	.7	Temporary water will be provided identified in the Supplementary	
11. DELIVERY OF MATERIALS AND USE OF THE SITE	.1	Confine equipment, products, and limits indicated.	l operations to
OSE OF THE STIE	.2	Deliver, store and maintain mate avoid damage.	erials so as to
12. TRAFFIC CONTROL	.1	Provide traffic control in accor Temporary Workplace Traffic Cont issued by Nova Scotia Transporta Infrastructure Renewal.	rol Manual
	.2	In urban areas, consult with loc having jurisdiction for possible special requirements.	
	.3	Meet with local authorities havi prior to start of construction t allowable diversions of vehicle traffic, and access to construct	o determine and pedestrian
	.4	Provide traffic control personne lights and other traffic control required.	
	.5	Provide and maintain signs, deli barricades, barriers, and miscel devices to indicate construction other temporary and unusual cond	laneous warning activities or
13. SUBSTITUTIONS	.1	Requests for substitutions will considered until after award of	
	.2	Proposals for substitution will considered by Engineer in the for circumstances: .1 Products specified are not .2 Delivery of specified produ- unduly delay completion; or .3 Alternate products will res- reduction in Contract Price	ollowing available; or ucts would

reduction in Contract Price.

.3 Provide information on proposed substitutions

in adequate detail to permit evaluation.

	. 4	Submit to the Engineer drawings and specifications for modifications, adjustments or additions required by substitutions in same detail as presented in Contract Documents.
	.5	Do not make changes or substitutions without written consent of Engineer.
	.6	Subject to prior notice Contractor may be back- charged for time spent by Engineer in evaluating substitutions.
14. STANDARDS AND REFERENCE DOCUMENTS	.1	Standards and reference documents in effect at time of tender closing referred to in Specifications are an integral part of Contract Documents.
15. WASTE MANAGEMENT AND DISPOSAL	.1	Prepare, for review, waste management plan, including source separating plan and waste disposal plan.
	.2	Maintain site and adjacent areas in tidy condition free from accumulation of waste products and debris.
	.3	Upon attaining Substantial Performance of the Work remove surplus products, tools, machinery and equipment.
	.4	Completion of cleanup is required for Substantial Performance of the Work.
16. PROJECT CLOSEOUT	.1	 Final Cleaning: .1 When the Work is substantially performed, remove surplus products, tools, construction machinery and equipment not required for performance of remaining work. .2 Remove waste materials and debris from site at regularly scheduled times or dispose of as directed by Owner. Do not burn waste materials on site. .3 Leave Work broom clean before inspection process commences.
	.2	Review/Takeover Procedures: .1 Prior to application for Certificate of

SIDEWALK REHABILITATION	&ROAD EXTENSION	SECTION 01 10 00
2024 KENTVILLE CAPITAL		PAGE 7
CONTRACT #2024-10	GENERAL REQUIREMENTS	JUNE 2024

Substantial Performance, review the Work and confirm it is substantially complete, and construction deficiencies are identified. Notify Engineer, in writing, of satisfactory completion of the Work and request a review. .2 During Engineer's review, a list of deficiencies and defects will be tabulated. Correct same.

.3 When Engineer considers deficiencies and defects have been corrected and the requirements of Contract have been performed, make application for final payment.

SIDEWALK REHABILITATION 2024 KENTVILLE CAPITAL CONTRACT #2024-10	& ROA	D EXTENSION CONCRETE	SECTION	03 30 00 PAGE 1 JUNE 2024
<u> PART 1 - GENERAL</u>				
1.1 Work Included	.1	This section specifies r constructing cast-in-pla includes supply and inst formwork, reinforcement, accessories.	ce concrete. Wo allation of fal	ork
1.2 Related Sections	.1	Metal Fabrication	Section 05 50	00
Sections	.2	Earthwork	Section 31 20	00
	.3	Walks, Curbs and Gutters	Section 32 16	00
	.4	Reinstatement	Section 32 98	00
	.5	Water Mains	Section 33 11	00
	.6	Sanitary Sewers	Section 33 31	00
	.7	Pressure Sewers	Section 33 34	00
	.8	Precast Manholes, Catch Basins and Structures	Section 33 39	00
	.9	Storm Sewers and Culverts	Section 33 40	00
	.10	Standard Details	Section 39 00	00
1.3 Reference_ Standards	.1	ASTM A933/A933M-2014, St for Vinyl-Coated Steel W Reinforcement.	-	
	.2	ASTM C260/C260M-10a(2016 Specification for Air-En Concrete.		cures for
	.3	ASTM C309-11, Standard S Membrane-Forming Compoun		
	.4	ASTM C494/C494M-17, Stan Chemical Admixtures for		ion for
	.5	ASTM C1017/C1017M-13e1, for Chemical Admixtures	-	

Flowing Concrete.

- .6 AASHTO M 182-05(2017), Standard Specification for Burlap Cloth Made from Jute or Kenaf and Cotton Mats.
- .7 CSA A3000-18, Cementitious Materials Compendium.
- .8 CSA A23.1-14/A23.2-14, Concrete Materials and Methods of Concrete Construction/Test Methods and Standard Practices for Concrete.
- .9 CSA S269.1-16, Falsework and Formwork.
- .10 CSA G30.18-09(R2014), Carbon Steel Bars for Concrete Reinforcement

1.4 Submittals .1 Submit shop drawings and samples in accordance with Section 01 10 00 for items listed in the Supplementary Specifications.

PART 2 - PRODUCTS

- 2.1 Materials
- .1 Portland Cement: to CSA Standard A3000, Type GU, Normal and CSA A23.1, Table 6.
- .2 Blended Hydraulic Cement: CSA Standard A3000 and CSA A23.1, Table 7. Ternary blended cements may be used with the agreement of the Engineer.
- .3 Aggregates: to CSA A23.1. For exposure Classes C-XL, C-1, C-2, C-3, C-4 and F-1, supply certification that the concrete mixtures have been evaluated for alkali-aggregate reaction and that measures have been taken to mitigate the reaction.
- .4 Water: to CSA A23.1, Table 9.
- .5 Admixtures: .1 Air Entraining: to ASTM C260/C260M. .2 Chemical: to ASTM C494/C494M or C1017/C1017M for flowing Concrete.
- .6 Supplementary Cementing Materials: .1 Low Calcium Fly Ash (Class F): to CSA A3000 and CSA 23.1, Table 8. Provide

confirmation of compliance to CSA A3000 for the fly ash used in the concrete. Reinforcement: .7 .1 Bars: to CSA G30.18, carbon steel, grade 400, deformed. Welded Steel Wire Fabric: to ASTM .2 A933/A933M. Bar Supports and Spacers: to CSA A23.1. .3 Falsework and Formwork: .8 .1 Falsework to CSA S269.1 Forms: to CSA A23.1, plywood and lumber, .2 clean and free of loose knots, splits or metal. .3 Form Ties: to CSA-A23.1, removable or snap-off metal ties, fixed or adjustable length. Form ties, tie wire, spacers or other embedded fixtures shall not be positioned closer than 20mm of the surface. For severe environments, dimension to be shown on the Project Drawings. Release Agent: non-staining natural .4 organic chemicals of sprayable consistency which prevent adhesion of concrete to forms. Formwork design: to CSA S269.1. .5 .9 Curing Compound: to CSA A23.1, white. Refer to AASHTO M182 and ASTM A309. .10 Waterstops: Ribbed or flexible strip, extruded PVC .1 waterstops of type and size indicated. Bentonite: NSF certified, expandable .2 strip composed of sodium bentonite, complete with adhesive if product is not self-adhering. .11 Non-shrink Grout: pre-mixed, dry pack or pourable, containing non-metallic aggregate, plasticizing agents and cement, minimum compressive strength of 45 MPa at 28 days. Provide in accordance with CSA A23.1, Table 5, .1 Alternate (1) Performance or (2) Prescription.

- .2 Mix proportions to provide workable concrete having required durability and strength.
- .3 Air entraining admixtures: to obtain Air Content Category as defined in CSA A23.1, Tables 1, 2 and 4.

2.2 Concrete Mix

- .4 Slump: to CSA A23.1, Clause 4.3.2.3.
- .5 Compressive strength at 28 days: for mixtures containing supplementary cementing materials, other ages may be appropriate as determined by the Engineer.
- .6 Water/cement ratio: to CSA A23.1, Tables 1, 2 and 4 as required for exposure conditions.
- .7 Ready mix plant must conform to CSA and possess a current certificate of conformance for concrete production facilities as issued by the Atlantic Concrete Association.

PART 3 - EXECUTION

- <u>3.1 General</u> .1 Do concrete work to CSA A23.1 and as herein specified.
 - .2 Use ready-mixed concrete unless on-site mixing is approved.
 - .3 If on-site mixing is approved, equipment to be capable of accurately proportioning ingredients to produce required concrete.
 - .4 Do not change concrete mix without prior approval of the Engineer. Changes in material supply will require submission of a new mix design for review.
- 3.2 Formwork and.1Construct falsework and formwork to CSA A23.1Falseworkand CSA S269.1.
 - .2 Construct formwork to produce finished concrete to required shape, dimensions and levels indicated within tolerances required by CSA A23.1. Provide close fitting joints to prevent leakage of mortar and form ties and bracing sufficient to withstand pressure of plastic concrete without deflection.
 - .3 When falsework is required, engage the services of a Professional Engineer, registered or licensed to practice in the Province of Nova Scotia, to provide design and erection details

		and inspect its installation in accordance with CSA S269.1. Provide record copy of drawings signed and sealed by Professional Engineer responsible for their preparation.
	.4	Use approved form release agent.
	.5	Remove formwork in accordance with CSA A23.1.
	.6	Remove falsework in accordance with CSA S269.1.
	.7	Fill form tie holes with non-shrink mortar and finish to texture of adjacent concrete.
3.3 Reinforcement_ and Embedded Items	.1	Clean reinforcing of rust build-up, mill scale or other coatings that prevent or reduce bond.
	.2	Bend bars cold to measurements required.
	.3	Confirm reinforcement and inserts are not disturbed during concrete placement.
	.4	Place and support reinforcing using bar supports and side form spacers to obtain cover, spacing and location indicated.
3.4 Waterstops	.1	Install waterstops as specified in the Project Documents and in accordance with manufacturer's written instructions.
	.2	Do not pierce, or distort waterstops, or displace reinforcement except near edges as required for securing.
3.5 Placing	.1	Place concrete to CSA A23.1, Clause 7.4.
	.2	Place concrete on dampened base.
	.3	Convey concrete from mixer to forms by methods that will maintain specified slump and prevent segregation.
	.4	Do not drop concrete more than 1.5 metres vertically unless it can be shown that the concrete will not segregate. Deposit concrete in final position in forms to avoid lateral movement.

	.5	Place concrete in continuous operation, starting from lowest point in form, in lifts not greater than 500mm.
	. 6	Internally consolidate each layer to obtain dense homogeneous structure free of cold joints, fill planes, voids and honeycombing. For vertical installation vibrate at least 150mm into previously placed layers. Concrete to be well bonded to all reinforcing steel, anchors, waterstops and other embedded parts.
3.6 Joints	.1	Make joints in accordance with CSA A23.1, Clause 7.2.
3.7 Finishing	.1	Finish concrete in accordance with CSA A23.1, Clause 7.6.
3.8 Curing and_ Protection	.1	Provide curing and protection to CSA A23.1, Section 7.4. Keep the temperature of the concrete within the limits of Table 14.
	.2	Do not place concrete on frozen base. Remove all snow, ice and frost from area prior to placing concrete. Do not place concrete on, or against, any surface that will lower the temperature of the concrete in place below the minimum value shown in Table 14.
	.3	When air temperature may drop below 5°C or when there is a probability that it will drop below 5°C within 24 hours of placing, raise temperature of base, reinforcing steel, embedded parts and forms above 5°C prior to placing concrete. In addition, before placement have available all materials and equipment needed for adequate protection and curing.
	. 4	When air temperature is at or above 27°C, or when there is a probability of its rising to 27°C during the placing period, provide facilities for protection of concrete in place from effects of hot and/or drying weather conditions. Under severe drying conditions, protect formwork reinforcement and concreting equipment from direct rays of sun, or cool by fogging.

SIDEWALK REHABILITATION 2024 KENTVILLE CAPITAL CONTRACT #2024-10	I & ROA	AD EXTENSION CONCRETE	SECTION 03 30 00 PAGE 7 JUNE 2024
	.5	After placing is completed, mai curing conditions for the concr accordance with CSA A23.1, Clau	rete in
3.9 Concrete . Quality	1 Te	est concrete in accordance with (using a Canadian Council of Inc Laboratories.	•
3.10 Defective Work	.1	Remediate all structural defect concrete such as spalling, low delaminating where defect could deterioration of the structure.	points and d cause long term
	.2	Remediate all aesthetic defects concrete. Aesthetic defects ind honeycombing, blemishes, embedo tie holes and other surface def	clude minor ded debris from
	.3	Submit method and obtain approx prior to proceeding with remedi structural and aesthetic defect	iation of all

SIDEWALK REHABILITATION	& RO	AD EXTENSION SECTION	32 12 16
2024 KENTVILLE CAPITAL CONTRACT #2024-10		ASPHALT CONCRETE PAVING	PAGE 1 JUNE 2024
PART 1 - GENERAL			
1.1 Work Included	.1	This section specifies requirements for constructing asphalt concrete pavement includes fine grading, supply and plac- prime or tack coat, hot mix asphalt co and pavement markings.	. Work ing of
1.2 Related Sections	.1	Concrete: Section 03 30 00	
566610115	.2	Earthwork: Section 31 20 00	
	.3	Walks, Curbs and Gutters: Section 32	16 00
	.4	Reinstatement: Section 32 98 00	
	.5	Precast Manholes, Catch Basins and Str Section 33 39 00	uctures:
	.6	Standard Details: Section 39 00 00	
1.3 Reference Standards	.1	CAN/CGSB 1-74-2001, Alkyd Traffic Pair	nt.
	.2	Nova Scotia Transportation and Infrast	ructure

- Renewal Standard Specification Highway Construction and Maintenance.
- .3 Transportation Association of Canada: Manual of Uniform Traffic Control Devices for Canada.
- 1.4 PGAB Escalation/
De-Escalation.1If specified in Project Documents an asphalt
index mechanism in accordance with the Nova
Scotia Transportation Infrastructure and Renewal
program shall be applicable to the Work.
- PART 2 PRODUCTS
- 2.1 Materials
- .1 Asphalt materials: Nova Scotia Transportation and Infrastructure Renewal Standard Specification - Highway Construction and Maintenance.
 - .2 Paint for pavement marking: to CAN/CGSB 1-GP-74M.

SIDEWALK REHABILITATION	& ROA	D EXTENSION SECTION	32 12 16
2024 KENTVILLE CAPITAL CONTRACT #2024-10		ASPHALT CONCRETE PAVING	PAGE 2 JUNE 2024
	.3	Recycled engine oil binders (REOB) are accepted in any PGAB to be used on stra roads. Provide the Engineer with cert: that the PGAB supplied does not contain	eets and ification
2.2 Asphalt Concrete	.1	Asphalt concrete mix: to Nova Scotia Transportation and Infrastructure Renew Standard Specification - Highway Constr and Maintenance, Division 4, Section 4, indicated in the Project Documents.	ruction
PART 3 - EXECUTION			
<u>3.1 Fine Grading</u>	.1	Fine grade gravel surface to within 10r elevations and cross sections indicated immediately prior to placement of aspha materials. Add or remove gravel as requ Compact to 100% Standard Proctor Density directed by the Engineer.	d alt uired.
3.2 Adjusting Tops of Castings	.1	Prior to placing asphalt surface cours .1 Adjust manhole covers and catch b frames to match asphalt surface, using manufactured or cast-in-place grade rir .2 Adjust valve boxes to finished as surface. Raise or lower top sections of boxes.	asin ngs. sphalt
3.3 Prime Coat	.1	When specified by the Project Documents prime coat to Nova Scotia Transportation Infrastructure Renewal Standard Specific Highway Construction and Maintenance, I 4, Section 5.	on and Lcation -
<u>3.4 Tack Coat</u>	.1	Apply tack coat on existing asphalt con Nova Scotia Transportation and Infrastr Renewal Standard Specification - Highwa Construction and Maintenance, Division Section 1. Apply tack coat to contact s curbs, castings and structures.	ructure ay 4,
3.5 Paving	.1	Transport, place and compact asphalt co mix to Nova Scotia Transportation and Infrastructure Renewal Standard Specif	

Highway Construction and Maintenance. Construct pavement within specified tolerances to lines, elevations, cross sections and dimensions at locations indicated.

- .2 Thickness of asphalt courses not to vary more than 6mm from thickness indicated, with average thickness as indicated.
- .3 Finished asphalt surfaces to be within 6mm of design elevation, but not uniformly high or low. Finished asphalt surface not to have irregularities exceeding 6mm when checked with a 3 metre straightedge placed in any direction.
- .1 Apply temporary markings prior to removal of temporary traffic control.
- .2 Surface to be dry and clean prior to application of permanent markings. Apply paint at application rate indicated with spray gun to lines and at locations indicated. Dimensions and colour to Transportation Association of Canada Manual of Uniform Traffic Control Devices for Canada, Part C.

3.6 Pavement Markings

PART 1 - GENERAL			
1.1 Work Included	.1	This section specifi constructing walks,	-
	.2		rading; supply, placing and d Cement concrete and d backfilling.
1.2 Related Sections	.1	Concrete	Section 03 30 00
560010115	.2	Earthwork	Section 31 20 00
	.3	Asphalt Concrete Paving	Section 32 12 16
	.4	Reinstatement	Section 32 98 00
	.5	Standard Details	Section 39 00 00
1.3 Reference	.1	ASTM A48/A48M-03(201 for Grey Iron Castin	6), Standard Specification gs.
	.2	Preformed Expansion Paving and Structura	ard Specification for Joint Filler for Concrete l Construction silient Bituminous Types).
	.3		4, Concrete Materials and Construction/Test Methods es for Concrete.
	.4	CSA B651-18, Accessi Environment.	ble Design for the Built
	.5	Nova Scotia Transpor Renewal Standard Spe Construction and Mai	J 1
1.4 Protection	.1	—	including security if t damage to newly installed ters.
	.2	Keep sufficient cove fresh concrete from	ring on site to protect damage by weather.
PART 2 - PRODUCTS

2.1 Materials	.1	Concrete: to Section 03 30 00, type GU cement at 28 days, slump 80mm ±20mm minimum compressive strength of 32 MPa, a maximum water cement ratio of 0.45, C-2 class of exposure, 5 - 8% total air content,
	.2	Chemical admixtures: type as approved, and in accordance with ASTM C494
	.3	Isolation joint filler: to ASTM D 1751.
	.4	Granular base: Type 1 Gravel to Section 31 20 00.
	.5	Asphalt materials: to Section 32 12 16.
	.6	Curing compound: to CSA A23.1-M, white in colour.
	.7	 Tactile walking surface indicators: .1 Cast iron plates in accordance with ASTM A48, minimum class 30B, free from damage or blemishes, sound, free from pouring faults, cracks, blow-holes and other defects. .2 Attention type (truncated domes), 12mm top surface diameter, 22mm base surface diameter, 42-61mm centre-to-centre between domes to CSA B651. .3 Slip resistant and colour contrasted with surrounding walking material in accordance with CSA B651.
PART 3 - EXECUTION		
3.1 Fine Grading	.1	Fine grade gravel surface prior to placing Portland Cement concrete or asphalt concrete.
3.2 Adjusting Tops of Castings	.1	Adjust castings to match finished surface prior to placing surface course of asphalt concrete or Portland Cement concrete.
3.3 Concrete_ Surfaces	.1	Do concrete work in accordance with Section 03 30 00 and as specified herein:

SIDEWALK REHABILITATION &	ROAD	EXTENSION	SECTION 32 16 00
2024 KENTVILLE CAPITAL		MALKS CUDDS AND CUMMEDS	PAGE 3
CONTRACT #2024-10		WALKS, CURBS AND GUTTERS	JUNE 2024

		 .1 Placing: Place concrete in continuous operation beginning at lowest point. Tamp or vibrate to prevent honeycombing. .2 Jointing: .1 Control joints to be minimum of one quarter of section thickness. .2 Space a control joint every 3 metres for curbs and every 1.5 metres for concrete walks unless otherwise indicated. Match joints in abutting curb and walk to extent practical. .3 Provide a control joint within 150mm of change in cross section of curbs, gutters and walks. .4 Finish perimeter of all slabs with an edger. .5 Saw cutting is permitted if done as soon as concrete has set sufficiently to resist ravelling and before shrinkage cracks appear.
		.5 Saw cutting is permitted if done as soon as concrete has set sufficiently to resist ravelling and before shrinkage
		 .2 Curing: Apply curing compound in accordance with CSA A23.1. .4 Form Stripping: Strip forms only when concrete has developed sufficient strength to resist damage to corners and edges.
3.4 Asphalt Concrete Surfaces	.1	Place asphalt concrete mix in accordance with Section 32 12 16.
3 5 Backfilling	. 1	Backfill when Portland Cement concrete or

3.5 Backfilling

.1 Backfill when Portland Cement concrete or asphalt concrete have strength sufficient to resist damage from backfilling operations. Do backfilling to Section 31 20 00.

SIDEWALK REHABILITATION & RO.	AD EXTENSION	SECTION 32 16 00
2024 KENTVILLE CAPITAL	WALKS, CURBS AND GUTTERS	PAGE 4
CONTRACT #2024-10		JUNE 2024

3.6 Tactile Walking Surface Indicators	.1	Install tactile walking surface indicators in accordance with the manufacturer's written instructions and to the tolerances specified in the Project Documents.
	.2	Install the base surface level with the surrounding surface, or with its edges beveled and not more than 3mm above the surrounding surface.
	.3	Install tactile walking surface for the entire width of curb depression or hazard to a minimum depth of 600mm to 650mm with one side abutting curb depression or hazard.
	.4	Clean plates after installation and inspect for proper height tolerance. Replace any units outside specified tolerances.

SIDEWALK REHABILITATION & ROAD EXTENSION 2024 KENTVILLE CAPITAL REINSTATEMENT CONTRACT #2024-10

PART 1 - GENERAL

1.1 Work Included	.1	reinstatement of surfaces, property, and structures damaged or disturbed by operations under this Contract. Work includes but is not limited to reinstatement of paved, gravelled and grassed surfaces; sidewalks, curbs and gutters;
		and ditches and culverts.

1.2 Related_ Sections	.1	Concrete	Section 03 30 00
	.2	Metal Fabrications	Section 05 50 00
	.3	Earthwork	Section 31 20 00
	.4	Asphalt Concrete Paving	Section 32 12 16
	.5	Walks, Curbs and Gutters	Section 32 16 00
	.6	Trees, Shrubs and Groundcover:	Section 32 90 00
	.7	Topsoiling and Finish Grading	Section 32 91 19
	.8	Seeding and Sodding	Section 32 92 00
	.9	Water Mains	Section 33 11 00
	.10	Sanitary Sewers	Section 33 31 00
	.11	Pressure Sewers	Section 33 34 00
	.12	Precast Manholes, Catch Basins and Structures	Section 33 39 00
	.13	Storm Sewers and Culverts	Section 33 40 00
	.14	Standard Details	Section 39 00 00
1.3 Reference	.1	Nova Scotia Transportatio Renewal Specification - H Maintenance.	

.2 Canadian Landscape Standards 2016 (CLS)Section 2 General Requirements 2.1.22 ACCEPTANCE.

PART 2 - PRODUCTS

- 2.1 Materials .1 Gravels: to Section 31 20 00.
 - .2 Asphalt Concrete Materials: to Nova Scotia Transportation and Infrastructure Renewal Specification, Division 4, Section 4 - Highway Construction and Maintenance.
 - .3 Concrete Materials: to Section 03 30 00.
 - .4 Culverts: to Section 33 40 00.
 - .5 Topsoiling and Finish Grading: to Section 32 91 19.
 - .6 Seeding and Sodding: to Section 32 92 00.
 - .7 Trees, Shrubs and Groundcover: to Section 32 90 00.

2.2 Mixes .1 Asphalt Concrete: .1 Roads: to Section 32 12 16

- .2 Walks and Curbs: to Section 32 16 00
- .2 Portland cement concrete: to Section 03 30 00.
- PART 3 EXECUTION
- <u>3.1 General</u> .1 Reinstate all surfaces to lines, elevations and dimensions which existed prior to construction and to match abutting surfaces.
 - .2 Make good all damage or disturbances to surfaces, survey markers, properties and structures disturbed during construction.
- 3.2 Gravel Surfaces .1 Place, spread, and fine grade to minimum compacted thickness of 150mm for shoulders and other gravel surfaces. Compact to 100% Standard Proctor Density.

3.3 Asphalt_ Concrete Surfaces	.1	Make vertical saw cut to full depth of asphalt concrete in straight lines. Cut back 300mm minimum from edge of excavation or beyond to eliminate tension cracks.
	.2	Place or remove gravel to depth indicated.
	.3	Shape, fine grade and compact gravel surface to 100 percent Standard Proctor Density.
	.4	Clean contact surfaces and apply tack coat prior to placing asphalt concrete.
	.5	<pre>Place and compact hot-mix, hot-placed asphalt concrete to Section 32 12 16, and to the following minimum thickness or as indicated in the Project Documents: .1 Sidewalk: 50mm .2 Other Surfaces: 75mm</pre>
3.4 Asphalt_ Concrete Curbs	.1	Cut back existing curb to full cross section, clean asphalt concrete contact surfaces and apply tack coat prior to placing asphalt concrete curb.
	.2	Place hot-mix, hot-placed asphalt concrete to Nova Scotia Transportation and Infrastructure Renewal Standard Specification - Highway Construction and Maintenance. Use curb machine having mould dimensions equal to those of the existing asphalt concrete curb. Hand placing not permitted unless approved by Engineer.
3.5 Concrete Walks,_ Curbs and Gutters	.1	Construct concrete walks, curbs and gutters to Section 32 16 00.
	.2	Terminate reinstatement at nearest existing control joint or as directed.
3.6 Landscaped_ Surfaces	.1	Fine grade to smooth surface all areas to be reinstated.
	.2	Reinstate landscaped surfaces to Sections 32 91 19, 32 92 00 and 32 90 00.
3.7 Ditches	.1	Re-establish ditches to provide drainage that existed prior to construction.

SIDEWALK REHABILITATION &	ROAD EXTENSION	SECTION 32 98 00
2024 KENTVILLE CAPITAL	REINSTATEMENT	PAGE 4
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<u>3.8 Culverts</u> .1 Repair or replace all damaged culverts with new culvert of same or approved material and to original lines, elevations, and dimensions.

TOK 2024 - 10 SIDEWALK REHABILITATION & ROAD EXTENSION PROSPECT AVE/ BELCHER ST/ MACDONALD SD



TOWN OF KENTVILLE

EXTENSION ROAD ∞ REHABILITATION \mathbf{X} SIDEWAL 0 \mathbf{H} \sim 0 \sim TOK

ATTENTION: CONTRACTOR IS RESPONSIBLE FOR THE EXACT LOCATION AND PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION.







Notes

- 1. STANDARD & SUPPLEMENTAL SPECIFICATIONS FOR MUNICIPAL SERVICES (NSCEA & NSRBA)
- 2. EROSION & SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES (NSE)
- 3. SEPARATION DISTANCES, AS OUTLINED IN THE POLICY ON INSTALLATION OF GRAVITY SEWERS, SEWAGE FORCEMAINS AND WATERMAINS IN COMBINED AND SEPARATE TRENCHES (NSE)
- 4. ALL ELEVATIONS ARE IN METRES TO CANADIAN GEODETIC DATUM USING NSHPN No. 208278
- 5. REMOVE AND REPLACE EXISTING MAILBOXES, FENCES AND SIGNS WHERE NECESSARY, AS DIRECTED BY THE TOWN ENGINEER.
- 6. REINSTATE EXISTING DRIVEWAYS, DITCHES, LAWNS AND ASPHALT SURFACES DAMAGED OR DISTURBED DURING CONSTRUCTION AND REPLACE EXISTING DRIVEWAY CULVERTS IF DISTURBED OR DAMAGED TO THE APPROVAL OF THE CONSULTANT, IN ACCORDANCE WITH THE REQUIREMENTS OF THE NOVA SCOTIA DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS.

	LEGEND	
EXISTI	NG	PROPOSED
SA	SANITARY PIPE	
S	SANITARY MANHOLE	S
WAT	WATER PIPE	
\bigotimes	VALVE	
	CATCH BASIN	
\triangleright	DIRECTION OF FLOW	►
- Q -	HYDRANT	•
-1	CAPPED OR PLUGGED	
1 06/03/2024 1	SSUED FOR TENDER	ΔΕΙ
No. MM/DD/YYYY F	SSUED FOR TENDER Revision Description	Ву
No. MM/DD/YYYY F	Revision Description	ILLE
No. MM/DD/YYYY F Horizontal 1:500	Revision Description	By
No. MM/DD/YYYY F Horizontal 1:500	Revision Description	Plot ARCH D (24"x36")
No. MM/DD/YYYY F Horizontal 1:500	Revision Description	By

Engineer

Check

DAB

DAB

Ref

Date MAY 14 - 2024

Drawing No.

C101













<u>NOTES</u>: 1. DASHED LINE "A" INDICATES CURB AT DRIVEWAYS 2. DASHED LINE "B" INDICATES CURB AT PEDESTRIAN RAMPS

140 4%—► A В $\Delta \Lambda \nabla$



Notes

CONCRETE CURB AND GUTTER SECTION

EXISTING		
SA		PROPOSE
	SANITARY PIPE	
S	SANITARY MANHOLE	S
WAT	WATER PIPE	
\otimes	VALVE	
	CATCH BASIN	
\triangleright	DIRECTION OF FLOW	►
-Q-	HYDRANT	••
4	CAPPED OR PLUGGED	
No. MM/DD/YYYY Revision De	escription	By
	N OF KENTVI PARTMENT OF ENGINEERI AND PUBLIC WORKS	
Project TOK- 2024-10 SIDE	-	
	DETAILS	
Title		
	Account No.	
Tender No. TOK 2024-10 Issued For Tender Date:	Account No. Issued For Construction Date:	As Construction Date:
		As Construction Date: