
--- ADDENDUM #4 ---

Issued September 6, 2024 to all bidders

To be added to and made part of the Tender Documents

1.0 Intent

- .1 This addendum is issued prior to closing of bids to provide revisions to the tender documents.
- .2 Such revisions shall form part of the Tender Documents and change the original Tender Documents only in the manner and to the extent stated. **A signed copy of this addendum must be attached to the Bid and the Bidder must acknowledge receipt of this addendum in the space provided.**
- .3 The statements below are for clarification purposes in response to questions received from bidders.

2.0 Directive

- .1 Bidders are instructed to replace the tendered section 00 41 43 (Tender Form) with the one attached in this addendum
- .2 Bidders are instructed to add section 01 22 00 (Measurement and Payment) attached to this addendum.

3.0 Questions and Answers

- .1 The concrete sidewalk detail provided doesn't show the thickness of gravel required. Is 150mm of Type 1 required under concrete sidewalks? Or is the trail structure required?
 - a. **150mm of compacted Type 1 will be sufficient for all concrete sidewalks.**
- .2 There is a Manhole being replaced by the farmer's market. No pay item was added to the tender form for this work. Pay item 53 was originally to replace the cover on this existing manhole and I see the pay item is still on the tender form. Is pay item 53 now intended for the replacement of this manhole? If not please provide a pay item for the replacement?
 - a. **In the replacement tender form included in this addendum, pay item 32.2 has been added for the 1050 mm manhole, and item 53 has been made provisional.**
- .3 The measurement and payment item for tactile indicators says wedges are included in that item. The detail provided on drawing D-09 indicates we are allowed to space them to match the radius meaning wedges wouldn't be required. Please confirm no wedges are required?
 - a. **Delete note 3 from Detail D-9. There shall be no gap between adjacent plates, consistent with HRM 131.**



- .4 The measurement and payment item for the new trail says excavation is included in the trail pay item. There was also a mass excavation pay item provided with addendum 3 but it is not clear exactly what is paid under this item. Please confirm all excavation required onsite including the new trail will be paid for under the mass excavation pay item? If not, please clarify what the mass item is for?
 - a. **In the replacement 01 22 00 – Measurement and Payment section issued with this addendum, the excavation scope has been removed from payment under Items 31.2 and 54. The intent for Item 3 is to capture the mass excavation costs required to install the trench drainage and bedding for the new trail pavement structure.**

Kind regards,

A handwritten signature in blue ink that reads 'Alex de Sousa'.

Alexander J. de Sousa, P.Eng.
Director of Engineering & Public Works
Town of Wolfville

Representative Signature

Company

Date

-----END OF ADDENDUM #4-----

Return this signed acknowledgement page with bid submission.

1.1 SALUTATION:

- .1 To: Town of Wolfville
359 Main Street, Wolfville Nova Scotia B4P 1A1

- .2 For: Tender # WOL009-2024
Wolfville AT Network Improvements
Wolfville, Nova Scotia

- .3 From: _____

1.2 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.

1.3 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 1.4 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 1.4 hereunder excluding Harmonized Sales Tax (HST).
- .3 That this tender is valid for acceptance for sixty (60) days from tender closing.
- .4 That measurement and payment for items listed in Subsection 1.4 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 January 2024.
 - .2 Overview
 - .3 Information to Tenderers
 - .4 Tender Form
 - .5 Form of Agreement
 - .6 Supplementary Specifications
 - .1 Section 00 74 00 – Supplementary Specifications
 - .2 Section 01 22 00 – Measurement and Payment (Addendum 4)
 - .3 Highland Avenue AT Signage & Pavement Markings Report prepared by DesignPoint Engineering & Surveying Ltd., dated June 21, 2024
 - .4 Cherry Lane and Kent Avenue – Bike Boulevards Report prepared by DesignPoint Engineering & Surveying Ltd., dated June 21, 2024
 - .5 HRM Standard Detail “HRM 119 Pedestrian Gate”
 - .6 HRM Standard Detail “HRM 196 Raised Crosswalk (Midblock)”
 - .7 HRM Standard Detail “HRM 172 Rectangular Rapid-Flashing Beacon Signal Configuration (Solar Panel)”
 - .8 Town of Wolfville Standard Detail TOW R-110 “Speed Cushion for Traffic Calming”
 - .9 Town of Wolfville Standard Detail TOW R-111 “Raised Crosswalk Longitudinal Profile Detail”
 - .10 Town of Wolfville Standard Detail TOW R-151 “Pavement Marking Details at Pedestrian Crossings”
- .7 Drawings
 - .1 **Wolfville AT Network Improvements prepared by DesignPoint Engineering & Surveying Ltd., Revision 2, Issued for Addendum 3**
 - Sheet 1 / C-01 / Site Plan
 - Sheet 2 / PP-01 / Plan & Profile 0+000 – 0+120
 - Sheet 3 / PP-02 / Plan & Profile 0+120 – 0+280
 - Sheet 4 / PP-03 / Plan & Profile 0+280 – 0+420
 - Sheet 5 / PP-04 / Plan & Profile 0+400 – 0+540
 - Sheet 6 / PP-05 / Plan & Profile 0+540 – 0+680
 - Sheet 7 / G-01 / Grading Sheet 1
 - Sheet 8 / G-02 / Grading Sheet 2
 - Sheet 9 / D-09 / Details
 - Sheet 10 / D-10 / Details
 - .2 **Cherry Lane Crossing prepared by DesignPoint Engineering & Surveying Ltd., Revision 1, Issued for Tender**
 - Sheet 1 / C-01 / Crossing Plan
- .8 All addenda as issued and as confirmed in subsection 1 of this section.



1.4 SCHEDULE OF QUANTITIES AND UNIT PRICES

WOLFVILLE AT NETWORK IMPROVEMENTS

Item No.	Description	Unit of Measurement	Estimated Quantity	Unit Price	Item Total
EARTHWORK					
3.	Mass Excavation – Common	m ³	860		
5.	Mass Excavation – Unsuitable Material (Provisional)	m ³	5		
				SUBTOTAL EARTHWORK: \$ _____	
STORM SEWER					
31.	Pipe				
.1	Pipe				
.1	100 mm PVC DR35	m	4		
.2	200 mm PVC DR35	m	64		
.3	250 mm PVC DR35	m	6		
.4	750 mm RCP 65D	m	24		
.2	Perforated Pipe (c/w clear stone trench)				
.1	100 mm PVC DR35	m	407		
.2	200 mm PVC DR35	m	5		
32.	Manholes				
.1	1500 mm	ea	3		
.2	1050 mm	ea	1		
33.	Catch Basins				
.1	w/S401 Grate (on-street)	ea	2		
.2	w/S401 Grate (off-street)	ea	2		
.3	Sluice Box w/Pyramid Grate	ea	5		
36.	Connection to Existing				
.1	Pipe	ea	1		
.2	Catch Basin	ea	4		
40.	Discharge Swale	m	23		
				SUBTOTAL STORM SEWER: \$ _____	
STREET CONSTRUCTION					
44.	Curb				
.1a	Concrete Curb and Gutter	m	300		
.1b	Curb Removal	m	170		



Item No.	Description	Unit of Measurement	Estimated Quantity	Unit Price	Item Total
STREET CONSTRUCTION CONTINUED					
45.	Sidewalk				
.1	Concrete				
.1	100mm Standard	m ²	598		
.2	150mm at Driveways	m ²	35		
46.	Tactile Walking Surface Indicators	ea	32		
49.	Adjust Existing Valve Box Covers	ea	1		
50.	Adjust Existing Manhole Frames and Covers	ea	1		
51.	Adjust Existing Catch Basin Frames and Grates	ea	1		
53.	Replace Frames and Grates or Covers (Provisional)	ea	1		
54.	Active Transportation Trail	m ²	1825		
55.	Traffic Sign Base	ea	20		
56.	Traffic Signs	ea	29		
57.	Traffic Calming				
.1	Speed Hump	ea	1		
.2	Raised Crosswalk	ea	2		
.3	Raised RA-4 Crossing with RRFB	ea	1		
58.	Pedestrian Gates (Provisional)	ea	6		
59.	Removal and Repainting of Reconfigured Parking Lot Lines				
.1	Festival Theatre	L.S.	1		
.2	Wolfville Farmer's Market	L.S.	1		
60.	Painted Markings				
.1a	Single Line (Yellow)	m	595		
.1b	Single Line (White)	m	100		
.2	Stop bar	m	9		
.4	Sharrow	ea	6		
.5	Shared-Use Path Marking	ea	14		

SUBTOTAL STREET CONSTRUCTION: \$ _____



Item No.	Description	Unit of Measurement	Estimated Quantity	Unit Price	Item Total
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LANDSCAPING

61.	Topsoil and Sod				
.1	100mm	m ²	1680		
.2	150mm	m ²	385		

SUBTOTAL LANDSCAPING: \$ _____

ADDITIONAL ITEMS

71.	Trench Excavation – Rock (Provisional)	m ³	5		
72.	Trench Excavation – Unsuitable Material (Provisional)	m ³	5		
73.	Replacement of Unsuitable Material With Surge Rock (Provisional)	m ³	5		
76.	Sign Relocation	ea	2		
77.	Removal of Ex. Fence	m	430		

SUBTOTAL ADDITIONAL ITEMS: \$ _____

ENVIRONMENTAL PROTECTION

90.	Environmental Protection	L.S.	1		
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SUBTOTAL ENVIRONMENTAL PROTECTION: \$ _____

SUBTOTAL WOLFVILLE AT NETWORK IMPROVEMENTS: \$ _____



CHERRY LANE/KENT AVENUE BIKE BOULEVARDS

Item No.	Description	Unit of Measurement	Estimated Quantity	Unit Price	Item Total
STREET CONSTRUCTION					
44.	Curb				
.1a	Concrete Curb and Gutter	m	9		
.1b	Curb Removal	m	9		
45.	Sidewalk				
.1	Concrete				
.2	150mm Concrete	m ²	14		
.2	Asphalt Walkway	m ²	12		
46.	Tactile Walking Surface Indicators	ea	9		
55.	Traffic Sign Base	ea	8		
56.	Traffic Signs	ea	20		
57.	Traffic Calming				
.1	Speed Hump	ea	5		
60.	Painted Markings				
.3	Midblock Crossing	ea	1		
.4	Sharrow	ea	20		

SUBTOTAL STREET CONSTRUCTION: \$ _____

LANDSCAPING

61.	Topsoil and Sod				
.1	100mm	m ²	30		

SUBTOTAL LANDSCAPING: \$ _____

Item No.	Description	Unit of Measurement	Estimated Quantity	Unit Price	Item Total
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ENVIRONMENTAL PROTECTION

90.	Environmental Protection	L.S.	1		
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SUBTOTAL ENVIRONMENTAL PROTECTION: \$ _____

SUBTOTAL CHERRY LANE/ KENT AVENUE BIKE BOULEVARDS: \$ _____



HIGHLAND AVE. AT SIGNAGE & PAVEMENT MARKINGS

Item No.	Description	Unit of Measurement	Estimated Quantity	Unit Price	Item Total
STREET CONSTRUCTION					
56.	Traffic Signs	ea	10		
60.	Painted Markings				
.3	Midblock Crossing	ea	1		
.5	Shared-Use Path Marking	ea	15		
.7	Sidestreet Crossing Marking	ea	4		

SUBTOTAL STREET CONSTRUCTION: \$ _____

ENVIRONMENTAL PROTECTION

90.	Environmental Protection	L.S.	1		
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SUBTOTAL ENVIRONMENTAL PROTECTION: \$ _____

SUBTOTAL HIGHLAND AVE. AT SIGNAGE & PAVEMENT MARKINGS: \$ _____



SUBTOTAL WOLFVILLE AT NETWORK IMPROVEMENTS	\$ _____
SUBTOTAL CHERRY LANE/ KENT AVENUE BIKE BOULEVARDS	\$ _____
SUBTOTAL HIGHLAND AVE. AT SIGNAGE & PAVEMENT MARKINGS	\$ _____
PROJECT CONTINGENCY ALLOWANCE	\$ _____ 100,000
ESTIMATED CONTRACT PRICE (EXCLUDING HST)	\$ _____ (A)
ADD HARMONIZED SALES TAX (15% of Estimated Contract Price)	\$ _____ (B)
TOTAL PRICE (A + B)	\$ _____
TENDERER'S HST REGISTRATION NO.	_____

1.5 COMPLETION TIME

- .1 Tenderer agrees to attain Substantial Completion of the work by November 29, 2024.



1.6 SIGNATURES*

DATED THIS _____ DAY OF _____, 20____.

Name of Tenderer

Witness

Signature of Signing Officer

Name and Title (Printed)

Witness

Signature of Signing Officer

Name and Title (Printed)

*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).

END OF SECTION



Part 1 General

1.1 General Notes

- .1 Unit Prices and lump sum prices are full compensation for the work necessary to complete each item in the Contract and in combination for all work necessary to complete the Work as a whole.
 - .2 Where individual Contract items and quantities are not provided in the Tender Form, each tender item shall include any and all costs associated with moving equipment and personnel to/from the Site to complete the Work specified, project signage, temporary facilities, traffic control, assistance to the Engineer, location of in-ground utilities and services by external parties, and coordination of work by external utilities (NSPI, Aliant, etc.), environmental protection, protection of existing trees, dewatering, marker tape and stakes, clearing, grubbing, excavation, shoring, dewatering, backfilling, bedding, compaction, disposal of surplus materials, protective coatings, reinstatement of all disturbed surfaces to existing or with materials and thicknesses as indicated on the Project Drawings, pipe cleaning, disinfection, pressure testing, topographic survey to record as-constructed features, video inspection, bonding and security, closeouts, and all incidentals not specifically covered in Contract items. General overhead costs that are not specific to the scope of individual Contract items shall be distributed among the tender items with appropriate weighting.
 - .3 For water, sanitary sewers, and storm sewer systems (including culverts) include all of the following as required where individual quantities are not provided in the Tender Form: protection and shoring (pipes, utility poles, banks, etc.), locating existing infrastructure (including but not limited to service laterals, crossings, and connection points), removal and disposal of existing infrastructure as required including but not limited to pipes and structures, dewatering, geotextile, bedding, backfilling, importation and placement of material, joint restraints, thrust blocks, thrust anchors, zinc anodes, insulation, polyethylene encasement. testing, flushing, pressure testing, vacuum testing, mandrel testing, disinfection, dechlorination, cleaning, video inspection prior to Substantial Performance of the Work and at the end of the Warranty Period, marker states, marker tape, tracer wire, test stations,, shop drawings, manhole and catch basin frames and covers, rocklining, valve covers, grade adjustment rings, waterproofing membrane, and all incidentals.
 - .4 All measurement shall be along a horizontal plane unless otherwise indicated.
 - .5 The numbers of the items described below correspond to the numbers of the items in Section 00 41 43, Part 4 - Schedule of Quantities and Unit Prices.
 - .6 Provisional items shall be included in the estimated Contract Price as tendered. The Owner reserves the right to alter quantities and/or delete all or portions of provisional items from the estimated Contract Price without change to any tendered unit rates.
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1.2 Contingency Allowance

- .1 No payment will be made under this item unless authorized by Engineer. Expenditures under the contingency allowance shall be authorized in accordance with the General Conditions, Part 6 – CHANGES.

EARTHWORK

.3 Mass Excavation and Embankment – Common

Unit of Measurement: cubic metre (m³) of cut

Method of Measurement: surface-to-surface volume method between topographical survey taken after grubbing and topsoil removal and lines and elevations indicated.

This item includes: excavation, placement and compaction to lines and elevations indicated, and disposal of surplus or unsuitable material.

.5 Mass Excavation - Unsuitable Material (Provisional)

Unit of Measurement: cubic metre (m³)

Method of Measurement: average end area method of volume of unsuitable material between cross sections taken before and after excavation.

This item includes: all excavation of unsuitable material and disposal. **Written authorization of Engineer required.**

STORM SEWER

.31 Pipe

Unit of Measurement: metre (m)

Method of Measurement: along centreline of pipe through manholes.

.1 Pipe

This item includes: supply and installation of pipe complete with fittings, excavation, removal and disposal of surplus and existing material, bedding and pipe protection gravels, backfilling, shoring, dewatering, reinstatement of all disturbed areas, and any other work or materials shown on the drawings related to the installation and supply of this item not included in any other pay item.

.2 Perforated Pipe

This item includes: supply and installation of pipe complete with fittings, clear stone, and geotextile as specified in the project drawings, bedding and pipe protection gravels, backfilling, any other work or materials shown on the drawings related to the installation and supply of this item not included in any other pay item. This item also includes connection to proposed catch basins or manholes as required.

.32 Manholes

Unit of Measurement: each (ea)

This item includes: supply and installation of manholes as indicated, excavation, removal and disposal of surplus and existing material, bedding, backfilling, adjustment to finished grade, shop drawings, re-connection of existing pipes, and any other work or materials shown on the drawings related to the installation and supply of this item not included in any other pay item.

.33 Catch Basins

Unit of Measurement: each (ea)

This item includes: supply and installation of catch basins including frames and grates as indicated, excavation, removal and disposal of surplus and existing material, bedding, backfilling, adjustment to finished grade, shop drawings, and any other work or materials shown on the drawings related to the installation and supply of this item not included in any other pay item.

.36 Connections to Existing

Unit of Measurement: each (ea)

.1 Connection to Existing Pipe

This item includes: supply and installation of cast-in-place concrete collar including wire mesh, cinderblocks, Blueskin membrane, formwork, and all other incidentals as required, excavation, disposal of surplus material, bedding and pipe protection gravels, backfilling, and any other work or materials shown on the drawings related to the installation and supply of this item not included in any other pay item.

.2 Connection to Existing Catch Basin

This item includes: supply and installation of all fittings, core drilling and sealing as indicated, excavation, disposal of surplus material, bedding and pipe protection gravels, backfilling, and any other work or materials shown on the drawings related to the installation and supply of this item not included in any other pay item.

.40 Discharge Swale

Unit of Measurement: metre (m)

Method of Measurement: along centreline of swale.

This item includes: all excavation, grading, supply and installation of materials and removal and disposal of waste material (including vegetation) required to complete construction of discharge swale as per the project drawings and as directed by the Engineer in the field.

STREET CONSTRUCTION

.44 Curb

Unit of Measurement: metre (m)

Method of Measurement: along top face of curb.

This item includes: supply and installation of all concrete curb and base gravels as per the project drawings, including supply and placement of backfill as indicated, asphalt restoration, and blending back to existing curbs as required. Removal item includes all sawcutting, removal, and disposal of existing materials required to complete work.

.45 Sidewalk

Unit of Measurement: square metre (m²)

Method of Measurement: horizontal measure of indicated area.

.1 Concrete Sidewalk

This item includes: sawcutting, removal, and disposal of existing materials required to complete work, supply and installation of concrete sidewalk as per the project drawings including all concrete and base gravels, wire mesh where required, reinforcing where required, backfill, and blending to existing sidewalks as required.

.2 Asphalt Walkway / Buffer

This item includes: sawcutting, removal, and disposal of existing materials required to complete work, supply and installation of asphalt walkway as per the project drawings, including all asphalt and base gravels, backfill, and blending to existing sidewalks as required.

.46 Tactile Walking Surface Indicators

Unit of Measurement: each (ea)

This item includes: supply and installation of Duralast Cast Iron Detectable Warning Plate tactile walking surface indicators as per manufacturer's instructions and as indicated on the project drawings. This item also includes any TWSI wedges or incidentals as required.

.49 Adjust Existing Valve Box Covers

Unit of Measurement: each (ea)

This item includes: common excavation and backfill, raising or lowering existing valve box covers to grades as indicated on the project drawings, supply and installation of replacement valve box sections if required for adjustment, and removal and disposal of all debris accumulated during construction.

.50 Adjust Existing Manhole Frames and Covers

Unit of Measurement: each (ea)

This item includes: common excavation and backfill, supply and installation of grade rings and grout, raising and lowering existing frames and covers to grades as indicated on the project drawings, and removal and disposal of all debris accumulated during construction.

.51 Adjust Existing Catch Basin Frames and Covers

Unit of Measurement: each (ea)

This item includes: common excavation and backfill, supply and installation of cast-in-place concrete as required, raising and lowering existing frames and covers to grades as indicated on the project drawings, and removal and disposal of all debris accumulated during construction.

.53 Replace Frames and Grates or Covers (Provisional)

Unit of Measurement: each (ea)

This item includes: common excavation and backfill, supply and installation of new adjustable frame and grate or cover as specified, reconstruction with pre-cast sections and cast-in-place concrete as required, setting of frame and cover to finished grade, and removal and disposal of all debris accumulated during construction.

.54 Active Transportation Trail

Unit of Measurement: square metre (m²)

Method of Measurement: horizontal measure of asphalt trail area.

This item includes: supply and installation of active transportation trail as per project drawings including all asphalt and base gravels, blending back to existing paths as indicated, and any other work or materials shown on the drawings related to the installation and supply of this item not included in any other pay item.

.55 Traffic Sign Base

Unit of Measurement: each (ea)

This item includes: supply and installation of concrete bases (including provision of shop drawings for approval by the Town of Wolfville), galvanized posts and hardware, common excavation, infill soil, and any other work or materials shown on the drawings related to the installation and supply of this item not included in any other pay item.



.56 Traffic Signs

Unit of Measurement: each (ea)

This item includes: supply and installation of retroreflective street signs conforming to the Manual on Uniform Traffic Control Devices and as per the project documents, and any other work or materials shown on the drawings related to the installation and supply of this item not included in any other pay item.

.57 Traffic Calming

Unit of Measurement: each (ea)

.1 Speed Hump

This item includes: supply and installation of asphalt speed hump (cushion) and pavement markings as per Town of Wolfville specification TOW R-110. Cross sections of every speed hump are to be surveyed per Town of Wolfville specifications to verify that speed hump has been constructed as intended and falls within required tolerance range. Contractor to provide survey information to the Engineer for review. Speed hump will be acceptable only if it forms a shape relative to the design curve within the tolerance limits. Contractor shall be responsible to take steps necessary to correct any deficiencies that fall outside of required tolerance range. This item also includes any other associated work or materials shown on the drawings not included in any other pay item.

.2 Raised Crosswalk

This item includes: supply and installation of raised crosswalk to HRM 196 (with milling and modified profile to TOW R-111) complete with midblock crossing pavement marking to TOW R-151. Cross sections of every constructed raised crosswalk are to be surveyed per Town of Wolfville specifications to verify that raised crosswalk has been constructed as intended and falls within required tolerance range. Contractor to provide survey information to the Engineer for review. Raised crosswalk will be acceptable only if it forms a shape relative to the design curve within the tolerance limits. Contractor shall be responsible to take steps necessary to correct any deficiencies that fall outside of required tolerance range. This item also includes any other associated work or materials shown on the drawings not included in any other pay item.

.3 Raised Crosswalk with RRFB

This item includes: removal of existing RA-5 crosswalk as indicated in the project drawings, and supply and installation of raised crosswalk as per HRM 196 (with milling and modified profile to TOW R-111) and RRFB to HRM 172 specifications, with midblock crossing pavement marking to TOW R-151. Cross sections of every constructed raised crosswalk are to be surveyed per specifications to verify that raised crosswalk has been constructed as intended and falls within required tolerance range. Contractor to provide survey information to the Engineer for review. Raised crosswalk will be acceptable only if it forms a shape relative to the design curve within the tolerance limits. Contractor shall be responsible to take steps necessary to correct any deficiencies that fall outside of required tolerance range. Include the supply and installation of two (2) Rectangular Rapid Flashing Beacons (RRFB) as per the project drawings and specifications, including all appurtenances and incidentals required for a complete and functioning installation and any other associated work or materials shown on the drawings not included in any other pay item.

.58 Pedestrian Gates (Provisional)

Unit of Measurement: each (ea)

This item includes: supply and installation of pedestrian gates (provisional) as per Halifax Regional Municipality Standard Detail 119 (Pedestrian Gate). Item also includes but is not limited to excavation, backfill, and any other work or materials shown on the drawings related to the installation and supply of this item not included in any other pay item. Also includes layout for on-site review and approval by the Engineer or Town of Wolfville representative prior to installation.

.59 Removal and Repainting of Reconfigured Parking Lot Lines

Unit of Measurement: lump sum (l.s.)

This item includes: supply and installation of all materials required to remove pavement markings as required, and supply and application of paint in the colours, sizes, and configurations as required to facilitate the adjustment of parking stalls as indicated on the project drawings, including but not limited to painted lines, painted hatched boxes, and accessible parking stalls. Also includes layout and premarking for on-site review and approval by the Engineer or Town of Wolfville representative.

.60 Painted Markings

Unit of Measurement: as indicated in project documents.

This item includes: supply and application of paint in the colours, sizes, and configurations shown on the project drawings, Town of Wolfville standard details, and/or as specified by the Engineer. Also includes layout and premarking for on-site review and approval by the Engineer or Town of Wolfville representative.

LANDSCAPING

.61 Topsoil and Sod

Unit of Measurement: square metre (m²)

Method of Measurement: horizontal measure of indicated area.

This item includes: excavation, scarification of the existing soil, supply, placement and compaction of topsoil at thickness indicated, lime, fertilizer, sod, required accessories, and maintenance.

ADDITIONAL ITEMS

.71 Trench Excavation – Rock (Provisional)

Unit of Measurement: cubic metre (m³)

Method of Measurement: surface-to-surface volume method between topographical survey taken before and after excavation of rock.

This item includes: rock breaking, excavation, and disposal of surplus or unsuitable material. All rock to be disposed of as per Nova Scotia Department of Environment and Climate Change (NSECC) guidelines. Should rock be suspected of being sulphide bearing, complete testing as per NSECC requirements. **Written authorization of Engineer required.**

.72 Trench Excavation - Unsuitable Material (Provisional)

Unit of Measurement: cubic metre (m³)

Method of Measurement: average end area method for volume of unsuitable material less theoretical trench volume.

This item includes: all excavation and disposal of unsuitable material beyond limits of the theoretical trench as per Town of Wolfville specifications. **Written authorization of Engineer required.**



.73 Replacement of Unsuitable Material with Surge Rock (Provisional)
Unit of Measurement: cubic metre (m³)
Method of Measurement: average end area method for volume of unsuitable material less theoretical trench volume.
This item includes: supply and placement of surge rock in locations where unsuitable material has been excavated from the trench beyond the limits of the theoretical trench as per Town of Wolffville specifications. This item also includes compaction of the material and placement of filter fabric. **Written authorization of Engineer required.**

.76 Sign Relocation
Unit of Measurement: each (ea)
This item includes: removal and relocation of existing signs as indicated on the project drawings. Item also includes but is not limited to excavation, backfill, and any other work or materials shown on the drawings related to the installation and supply of this item not included in any other pay item.

.77 Removal of Ex. Fence
Unit of Measurement: metre (m)
Method of Measurement: horizontal length along fence.
This item includes: removal and disposal of existing fence indicated on the project drawings. This item also includes any other work or materials shown on the drawings related to the installation and supply of this item not included in any other pay item.

ENVIRONMENTAL PROTECTION

.90 Environmental Protection
Unit of Measurement: Lump Sum (L.S.)
This item includes: supply and installation of all environmental protection measures required to complete the project works, including all erosion and sedimentation control measures required as per the Erosion and Sedimentation Control: Handbook for Construction Sites as published by NSECC.

Part 2 Products

2.1 NOT USED

.1 Not used.



- Part 3** **Execution**
- 3.1** **NOT USED**
- .1 Not used.

End of Section 01 10 00
