

---

## --- ADDENDUM #3 ---

Issued September 3, 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 Notice

- .1 Bidders take notice that the closing date of this tender has been extended to Tuesday, September 10, 2024.

### 3.0 Directive

- .1 Bidders are instructed to replace the tendered drawing sheets C-01, PP-01, PP-02, PP-03, PP-04, PP-05, G-01, G-02, D-09, and D-10 (10 sheets dated June 21, 2024 – Revision 1) with the revised sheets attached to this addendum (dated August 29, 2024 – Revision 2).
- .2 Bidders are instructed to replace Detail H-9 Typ. Catch Basin on Sheet 9, Drawing D-09 Details with the revised detail on the second page of **Addendum 1** showing revised gutter configuration, IMP S-401 catch basin grate, and backfill requirements for all precast concrete structures in on-street applications.
- .3 Bidders are instructed to replace the tendered section 00 41 43 (Tender Form) with the one attached in this addendum
- .4 Bidders are instructed to add section 01 22 00 (Measurement and Payment) attached to this addendum.
- .5 Bidders are instructed to add standard details HRM 172, HRM 196, TOW R-110, TOW R-111, TOW R-151 attached to this addendum, as referenced below and in the revised materials.

### 4.0 Questions and Answers

- .1 I can't seem to find a detail for the sidewalk. Please provide a detail showing the thickness of gravel required? Also, there are pay items for 150mm Concrete sidewalk and 100mm Concrete

sidewalk but nothing on the drawings shows the difference between the two. Please show on the drawings what's 100mm and what 150mm? Is welded wire mesh required in the 150mm concrete sidewalk?

**a. Detail has been added to drawing set**

.2 There is no detail provided for road or parking lot reinstatement. There will be quite a bit of each to reinstate to accommodate the new curb and trail. Please provide a detail for the road reinstatement and one for the parking lot reinstatement? Please also provide a pay item for each reinstatement item?

**a. Detail has been added to drawing set.**

.3 Drawing PP-01 has a note pointing to an existing pole that says, "Add Structs To Ex. Guy Wire For Sidewalk Clearance". This is an item that we are unable to get a price from NSP at this point in the project. Please confirm this will be by owner or an extra to the project? In addition, the summery section of the spec says we are responsible for the relocation of poles and supports, again this is something we can't get a price on from NSP at this point in the project and is also something that's unknown at this point. Please confirm this will also be by owner or an extra to the project if required?

**a. Contractor is responsible to coordinate all scoping and work with NSPI directly. TOW will issue a letter of authorization for the successful contractor to act on their behalf with NSPI. Any extra costs from NSPI will be forwarded to and paid for directly by TOW.**

.4 The spec provided with the tender is missing the measurement and payment section. This is important as we need to know what item pays for what portion of the project. Please provide the measurement and payment section detailing what scope is included in each pay item?

**a. The measurement and payment section has been attached to this addendum.**

.5 There is no item provided for the mass excavation, borrow, or removals on this project. Please provide a pay item for each?

**a. This is addressed in the measurement and payment section. Where there are no contract items covering removals, the costs for pipe, paving, and sidewalk removals are to be included in the unit pricing for each item.**

.6 Drawing PP-01 has a note saying, "Prop Green landing" Is this just a landscaped area? If not, please provide clarification as to what's required? Please also provide a detail?

**a. This has been removed from the revised drawings.**

.7 Note 7 on drawing D-09 indicates 100mm topsoil and hydroseed may be required outside the topsoil and sod pay items. If this is correct, please provide a quantity and pay item for 100mm Topsoil and Hydroseed?

**a. Note 7 refers to standard erosion and sedimentation control measures and is captured in the environmental measures L.S. fee.**

.8 There is no detail provided for the raised crosswalks, speed humps, Or RRFB. Please provide a detail for the raised crosswalks, speed humps, and RRFB? Details showing requirements for the RRFB will need to be provided as the requirements vary as does the pricing. RRFB's can cost anywhere from \$2,500 to \$6,500. Where the raised crosswalks are required, please confirm these can be constructed on top of the existing asphalt?

- a. **Drawings have been updated to note that the raised crosswalks on Harbourside Drive and Elm Street are to be completed as per HRM 196 (as modified by TOW standard detail R-111), RRFB and raised crosswalk on Main Street to be constructed as per HRM standard details HRM 172 and HRM 196 (as modified by R-111). All of these details are attached as part of addendum.**
- .9 GC 10.2.2 says the contractor is required to obtain permits, inspections, licenses, letters of approval, and certificates. This would typically be handled by the owner. Please confirm the owner be responsible for obtaining these approvals? If not, please indicate what exactly we are required to obtain for this project?
- a. **TOW will be responsible for any required permits at the request of the contractor.**
- .10 Section 1.9 (Quality Control) of the supplementary specifications says the owner and engineer will arrange and pay for the testing required on this project. This would be typical for a project like this, please confirm this is the case? If so, is the geotechnical pay item redundant? If so please remove this pay item? If not, then please specify exactly what's required for the Geotechnical inspection pay item?
- a. **This pay item has been removed.**
- .11 Item 60.3 under Cherry Lane/Kent Ave is for a Midblock crossing, but the drawings/notes show a zebra crossing. Please confirm this is a new Midblock crossing? Also, the quantity is 1m for this item, but the drawings show 11m, please correct this?
- a. **This quantity has been corrected to 11m. This is considered a midblock crossing, and is therefore a zebra pattern with RA-4 signage as shown on design drawing.**
- .12 The table in the spec for paint markings shows the shared-use path marking being green, the side street crossing having a green background, and the midblock crossing having green squares. Please confirm the shared-use path marking is green not white? Please also confirm the side street crossing has a green background? The spec table shows the midblock crossing having green squares with a black background but the table on drawing C-01 says this marking is all white. Please confirm which is correct and if the black background is just asphalt? In addition, please confirm the size of the new Symbols for the paint markings? Is a typical 7ft symbol acceptable?
- a. **Yes the path marking is green. Yes the side street crossing has green background. The table has been updated to say the midblock crossing is green and white in agreement with the TOW detail referenced. Typ. 7ft symbol is acceptable. Note that the proposed pavement markings have been updated to show the active wheelchair icon (stencil available for loan by TOW).**
- .13 Detail A on drawing PP-01 lists MARAFI150 as the acceptable produce for the French Drain geotextile. We would propose using Terrafix 270R as an alternative? Please confirm if this is acceptable?
- a. **Yes this is acceptable.**
- .14 Detail A on drawing PP-01 has a note pointing to the shoulder on the new trail saying Sod or Gravel. We would need to know if this is gravel or sod. If this is gravel, we will need to know how much of it is gravel and we would need a pay item for this work. Please provide a quantity and pay item if gravel shoulder is required?

**a. Trail shoulder to be topsoil and sod.**

.15 Drawing PP-05 shows a new catch basin (CB10) but it doesn't show any new pipe or indicate how we are supposed to connect this new catch basin to the existing system. Please show the new pipe route and pipe size to connect this to the existing system? In Addition, PP-01 shows a new catch basin as well (CB9) but again it doesn't show any new pipe or indicate how we are supposed to connect this to the existing system. There is a note pointing to this catch basin that says connection to the existing system to be confirmed in field but that being we are unable to accurately price this without any information. Please provide the new pipe route and pipe size to connect the new catch basin to the existing system?

**a. Drawing have been updated to show connections and additional detail.**

.16 The drawings and the specs don't indicate what's to be done with the existing railway ties where they cross new asphalt areas or in the area to be topsoiled and sodded. Please provide clarification if the rails are being removed in these areas or if they are staying? If some are staying and some are going, please indicate on the drawings which portions stay and which go

**a. The intent is that there will not be any removal of rail ties. A provisional item has been added to the tender form to address this in case it becomes necessary.**

.17 The detail for the new curb shows curb and gutter but the drawings show mainly high back curb with a few spots having curb and gutter. Please confirm if all the curb is high back or curb and gutter? If there is a mix of both, please provide a pay item for each type and indicate on the drawings where each type is required?

**a. All curb to be curb and gutter as per drawing detail.**

.18 Between station 0+580 and 0+680 on drawing PP-05 it shows a sliver of concrete (Approximately 300mm wide) between the new trail and new curb. This would be an unnecessary cost for the town. Could this be eliminated, and the trail be moved to the backside of the new curb?

**a. This has been revised to show the area as asphalt. Item 54 quantity has been revised to include this, and item 60.1b has been added to the tender form to provide a single white edge line to delineate the AT path surface from the paved buffer.**

.19 There is no detail for the new pipe. Please provide a pipe detail showing the required thicknesses of bedding material?

**a. A detail has been added to the design drawings.**

.20 While visiting the site we noticed there is a streetlight on Elm Ave in the approximate location of the 750mm connection to the existing pipe near the monument rock. This light isn't shown on the drawing but looks like it may be in the way of installing the new pipe and making the connection. Please show this light on the drawings? If this light is going to be disturbed, please clarify the expectation with the removal and replacement of this light? Also, if this is be removed and replaced, please provide a pay item for this work?

**a. The pipe connection layout and configuration has been revised to avoid this.**

.21 The catch basin detail says cast in place grade adjustments. This typically would be done with a precast grade ring. Please confirm a precast grade ring would be acceptable?

**a. Grade adjustment using precast concrete grade rings (max. two rings with a minimum grade ring thickness of 150 mm) is acceptable. Otherwise, cast-in-place grade**



**adjustment using 35 MPa air entrained concrete (incorporating an epoxy-coated 15M circular rebar cage for adjustment greater than 150 mm) is required.**

- .22 It is very hard to see the existing information behind the new layout on the drawings. This makes it difficult to accurately quantify and price the removals for this job. Please provide a removals plan without the new shown? Please also show the limits of removals on the plans?
  - a. **The contractor is responsible to familiarize themselves with the project site, the scope of the work, and the anticipated removals required to complete the work. Any specific questions can be submitted.**
- .23 There is an area on the drawings that is labeled as vegetation to be cleared by the farmer's market. We would like some clarification on the expectations for this area. Please confirm grubbing isn't required? After visiting the site, it seems most trees in this area are less than 200mm and will be removed. Are we able to use a mulching head on an excavator to remove the trees and shrubs? If we are allowed, can the mulched material stay in place?
  - a. **This has been removed.**
- .24 MHST2 on drawing PP-04 has a note indicating it needs to be raised to new grade and the existing CB cover replaced with a MH cover. There is nothing indicating the size of the existing CB and how much it needs to be raised. Please provide the size and how much it needs to be raised so we can get the required pricing?
  - a. **This has been revised to show this structure being replaced with a new MH.**

Kind regards,

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

\_\_\_\_\_  
Representative Signature

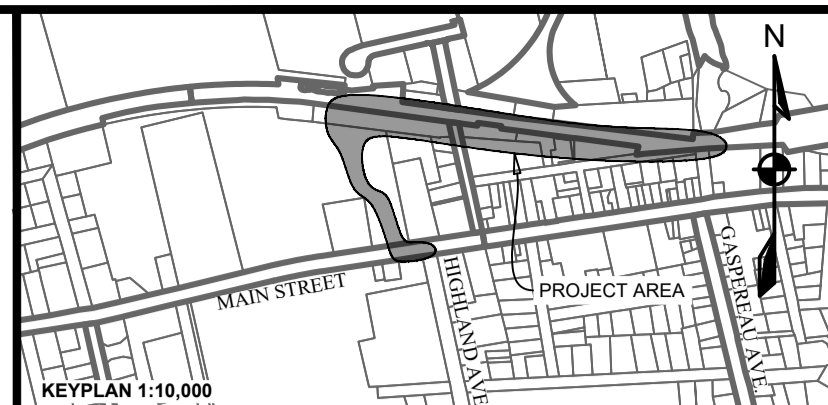
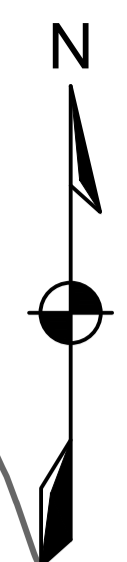
\_\_\_\_\_  
Company

\_\_\_\_\_  
Date

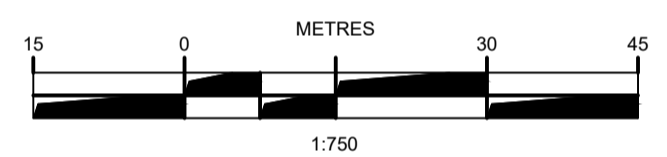
-----END OF ADDENDUM #3-----

**Return this signed acknowledgement page with bid submission.**

# Wolfville AT Connection



EXISTING		PROPOSED
---	VERTICAL PROFILE	---
---	APPROXIMATE 1 IN 100 YEAR FLOOD LIMIT	---
---	CENTERLINE	---
---	EASEMENT	---
---	DITCH CENTERLINE	---
---	ROCK-LINED DITCH	---
---	CULVERT	---
---	WATERCOURSE	---
---	WETLAND BOUNDARY	---
---	20 m BUFFER	---
---	GUARDRAIL	---
---	TOP OF SLOPE	---
---	BOTTOM OF SLOPE	---
---	OVERHEAD LINE	---
---	FENCELINE	---
---	EXISTING PROPOSED	EXISTING PROPOSED
---	PRECAST HEADWALL	---
---	STREET SIGN	---
---	SURFACE FLOW	---
---	UTILITY POLE w/ GUY WIRE	---



ISSUE	DATE	DESCRIPTION	CONSULTANT
2	AUG. 29, 2024	ISSUED FOR ADDENDUM #2	
1	JUNE 21, 2024	ISSUED FOR TENDER	

**DESIGNPOINT**  
engineering • surveying • solutions

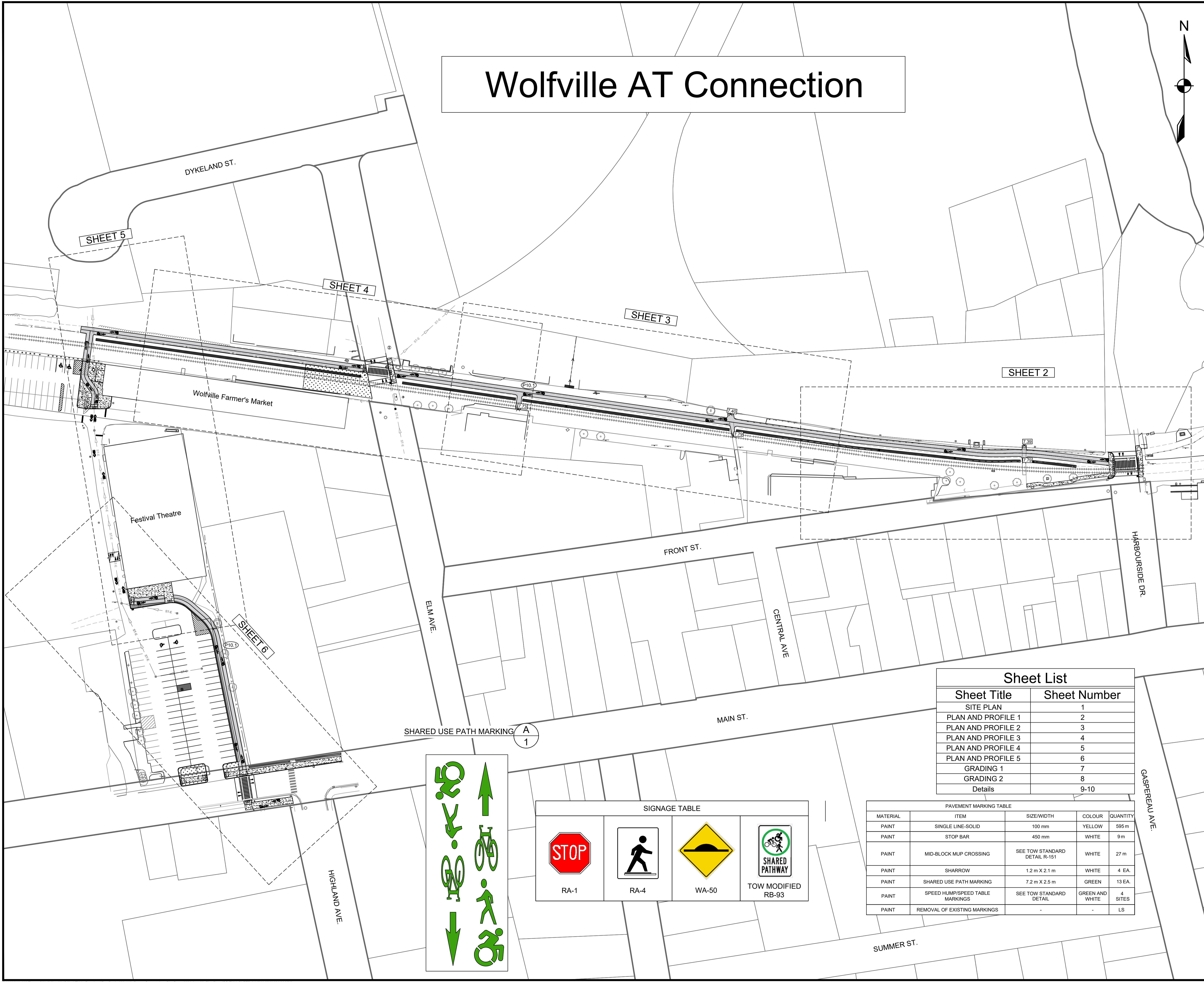
902.832.5597 designpoint.ca



CLIENT  
PROJECT DESCRIPTION  
**WOLFVILLE AT CONNECTION**  
WOLFVILLE, NOVA SCOTIA  
SHEET DESCRIPTION

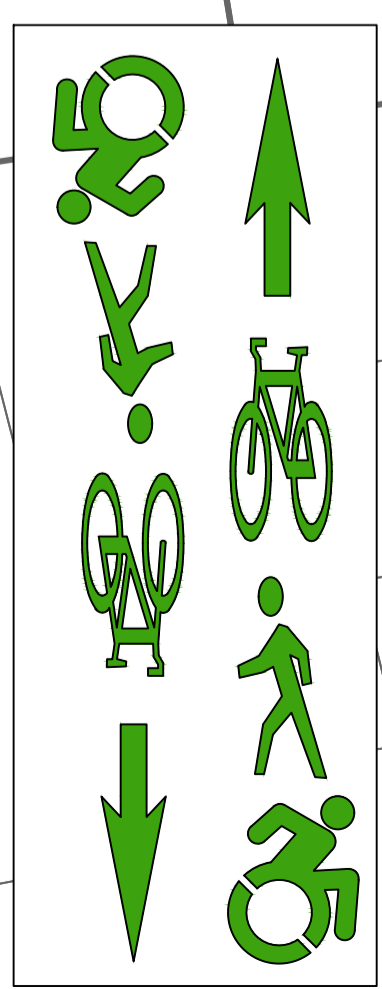
**SITE PLAN**

Drawn J. BENEDICT	Engineer E. DALTON	Project No. 23-410	Drawing No. <b>C-01</b>
Scale 1:750	Filename 23-410_Base - Current.dwg	1 of 10	

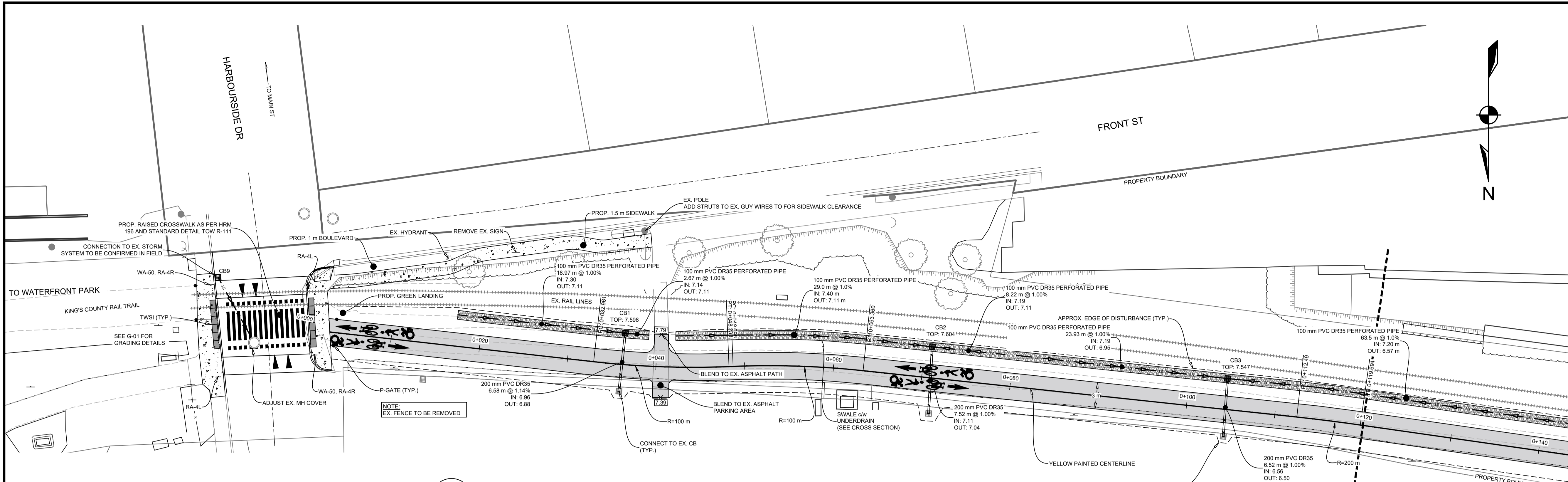


Sheet Title	Sheet Number
SITE PLAN	1
PLAN AND PROFILE 1	2
PLAN AND PROFILE 2	3
PLAN AND PROFILE 3	4
PLAN AND PROFILE 4	5
PLAN AND PROFILE 5	6
GRADING 1	7
GRADING 2	8
Details	9-10

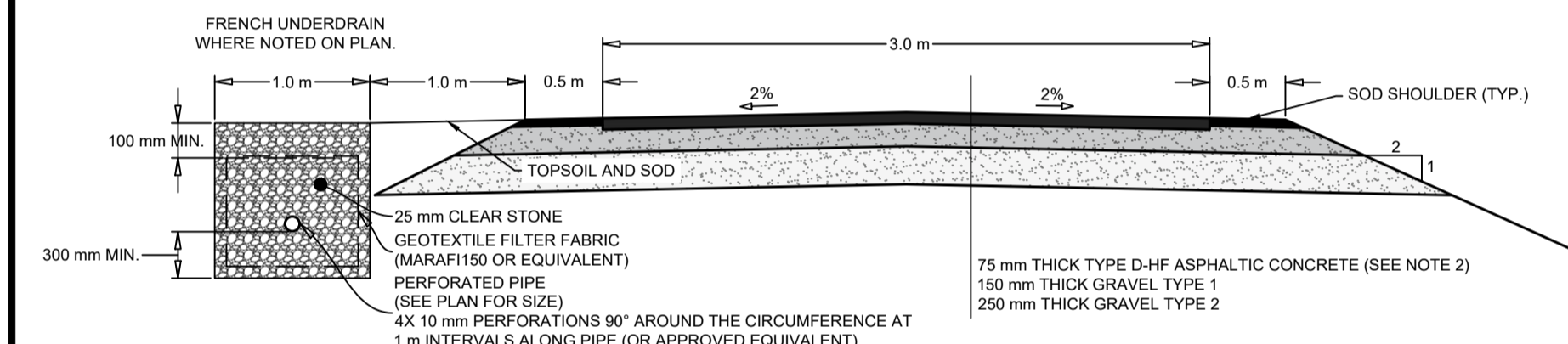
MATERIAL	ITEM	SIZE/WIDTH	COLOUR	QUANTITY
PAINT	SINGLE LINE-SOLID	100 mm	YELLOW	595 m
PAINT	STOP BAR	450 mm	WHITE	9 m
PAINT	MID-BLOCK MUP CROSSING	SEE TOW STANDARD DETAIL R-151	WHITE	27 m
PAINT	SHARROW	1.2 m X 2.1 m	WHITE	4 EA.
PAINT	SHARED USE PATH MARKING	7.2 m X 2.5 m	GREEN	13 EA.
PAINT	SPEED HUMP/SPEED TABLE MARKINGS	SEE TOW STANDARD DETAIL	GREEN AND WHITE	4 SITES
PAINT	REMOVAL OF EXISTING MARKINGS	-	-	LS



RA-1	RA-4	WA-50	TOW MODIFIED RB-93



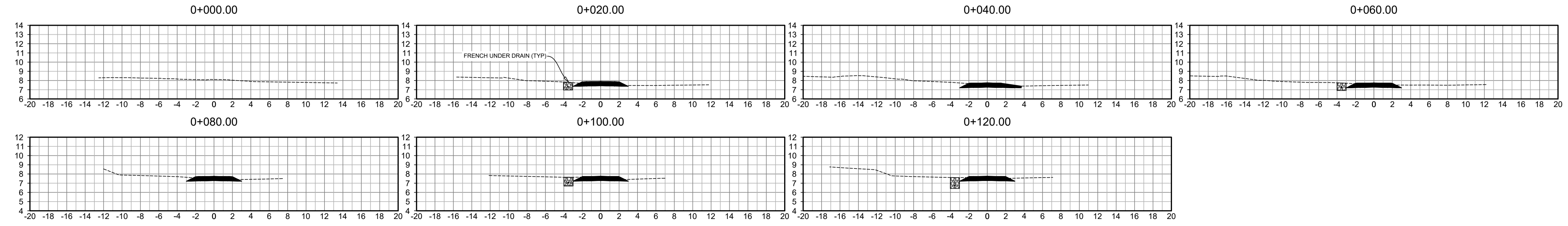
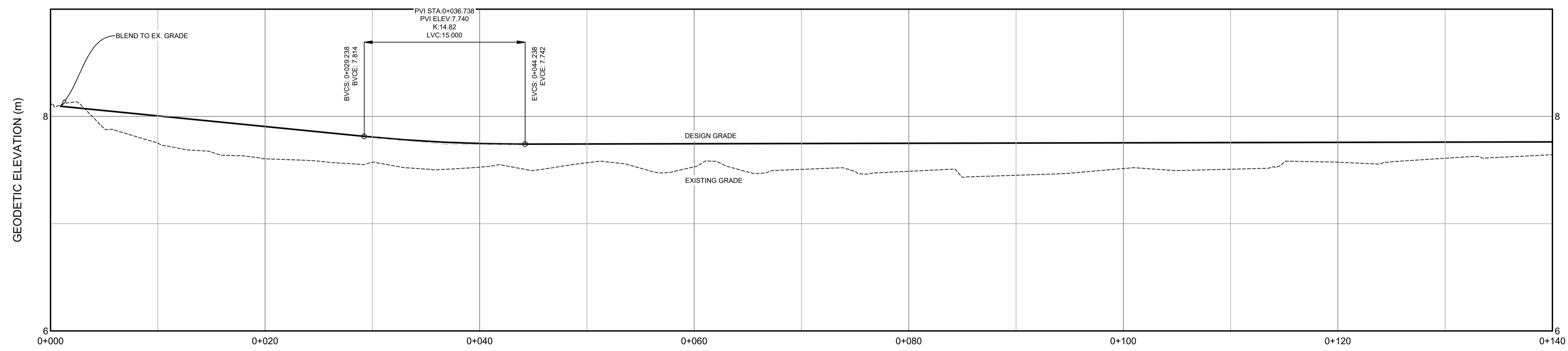
**ACTIVE TRANSPORTATION TRAIL DETAIL**



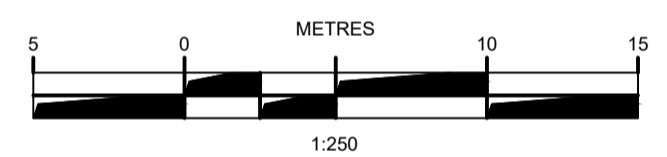
**NOTE:**  
 LOCATION OF EXISTING INFRASTRUCTURE IS BASED ON BEST AVAILABLE INFORMATION, INCLUDING RECORD INFORMATION, AND IS APPROXIMATE. CONTRACTOR TO VERIFY SIZE AND LOCATION IN FIELD PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER. ALLOW ONE WEEK FOR REVIEW.

- NOTES:**
1. ADDITIONAL SLOPE STABILIZATION AS PER GEOTECHNICAL REPORT
  2. SURFACE MATERIAL TO BE ASPHALTIC CONCRETE UNLESS DIRECTED BY THE ENGINEER
  3. RAILING REQUIRED IN FILL GREATER THAN 1.5 m, OR ADJACENT TO WATER
  4. FALSE DITCH REQUIREMENTS SHALL MEET HALIFAX WATER SPECIFICATIONS

**WOLFVILLE AT TRAIL CENTERLINE PROFILE**



EXISTING		PROPOSED	
---	VERTICAL PROFILE	---	PROPOSED
---	APPROXIMATE 1 IN 100 YEAR FLOOD LIMIT	---	100 YR
---	EASEMENT	---	EA
---	WATER PIPE	---	WA
---	SANITARY PIPE	---	SA
---	STORM PIPE	---	ST
---	NATURAL GAS MAIN	---	GAS
---	WATER LATERAL	---	WL
---	SANITARY LATERAL	---	SL
---	STORM LATERAL	---	SL
---	NATURAL GAS LATERAL	---	NGL
---	SIDEWALK	---	SI
---	WALKWAY/T. TRAIL	---	WT
---	GUARDRAIL	---	GR
---	TOP OF SLOPE	---	TOS
---	BOTTOM OF SLOPE	---	BOS
---	FENCELINE	---	FX
---	CURB CUT/RAMP	---	CR
---	CURBSTOP	---	CS
---	REDUCER	---	RD
---	PRECAST HEADWALL	---	PH
---	STREET SIGN	---	SS
---	STREET TREE	---	STR
---	AIR RELEASE VALVE	---	ARV
---	WATER VALVE	---	WV
---	HYDRANT	---	HY
---	CATCHBASIN	---	CB
---	UTILITY POLE w/ GUY WIRE	---	UPGW
---	GLB	---	GLB
---	URD	---	URD



ISSUE	DATE	DESCRIPTION
2	AUG. 29, 2024	ISSUED FOR ADDENDUM #2
1	JUNE 21, 2024	ISSUED FOR TENDER

**DESIGNPOINT**  
 engineering • surveying • solutions  
 902.832.5597 designpoint.ca

**wolfville**

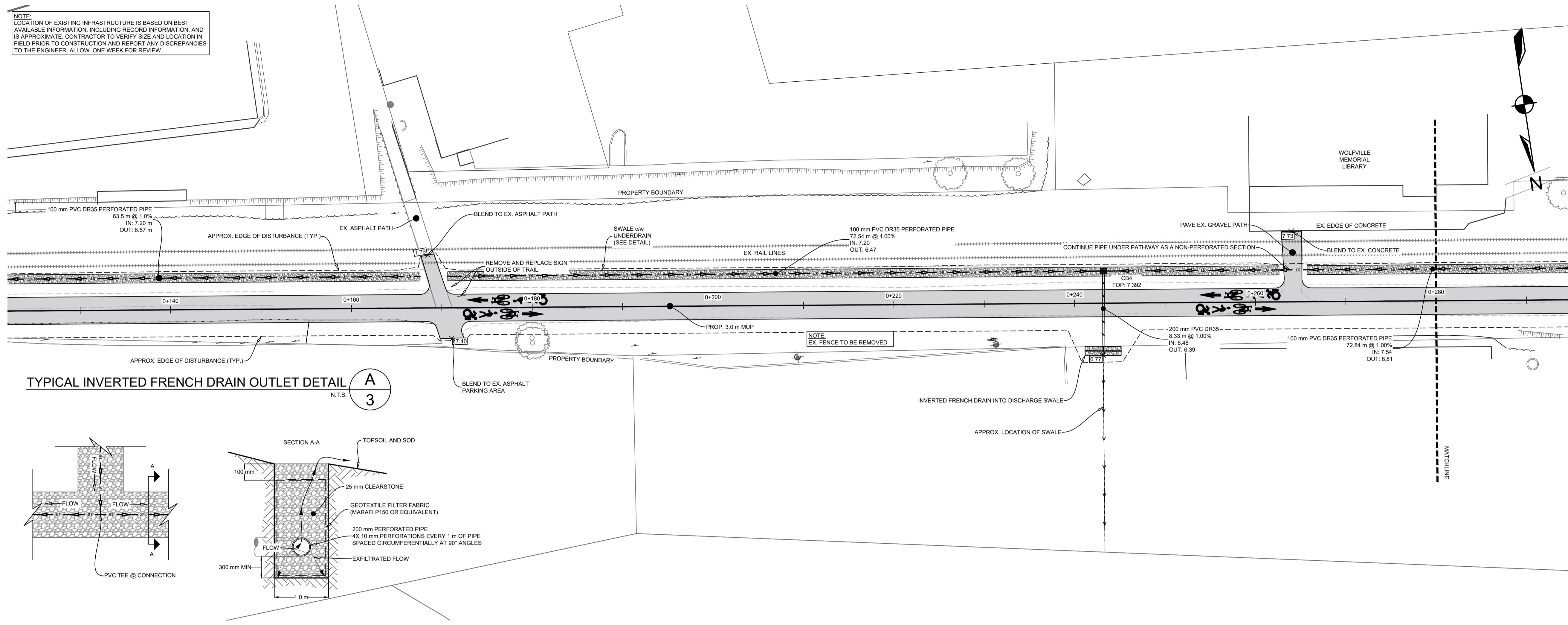
**WOLFVILLE AT CONNECTION**

WOLFVILLE, NOVA SCOTIA  
 SHEET DESCRIPTION

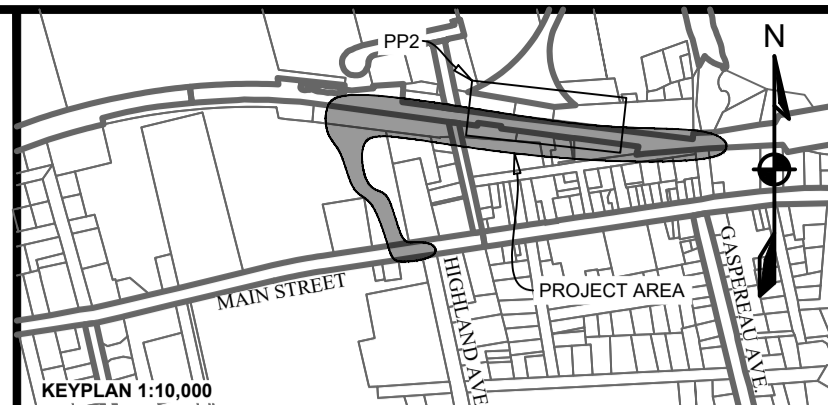
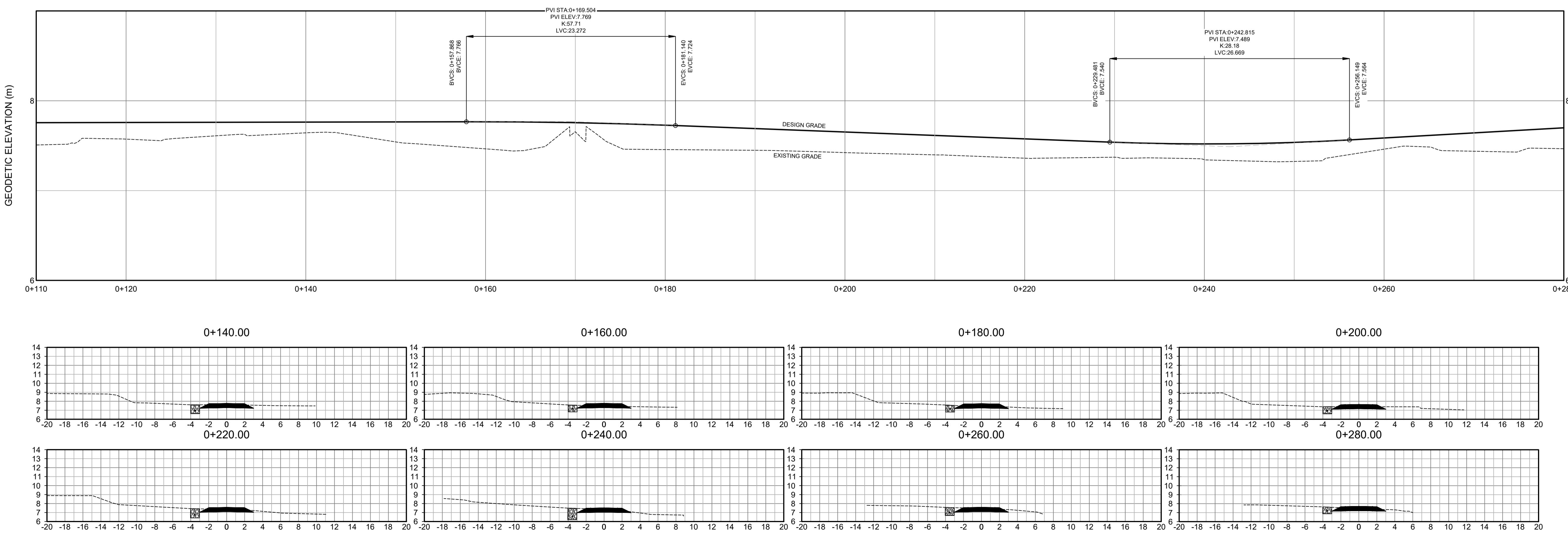
**PLAN & PROFILE**  
 0+000 - 0+120

Drawn J. BENEDICT	Engineer E. DALTON	Project No. 23-410	Drawing No. PP-01
Scale 1:250 H, 1:25 V	Filename 23-410_Base - Current.dwg	2 of 10	

NOTE:  
LOCATION OF EXISTING INFRASTRUCTURE IS BASED ON BEST AVAILABLE INFORMATION, INCLUDING RECORD INFORMATION, AND IS APPROXIMATE. CONTRACTOR TO VERIFY SIZE AND LOCATION IN FIELD PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER. ALLOW ONE WEEK FOR REVIEW.

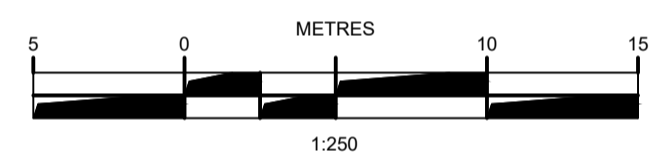


WOLVILLE AT TRAIL CENTERLINE PROFILE



**LEGEND**

EXISTING	VERTICAL PROFILE	PROPOSED
---	APPROXIMATE 1 IN 100 YEAR FLOOD LIMIT	---
---	EASEMENT	---
---	WATER PIPE	---
---	SANITARY PIPE	---
---	STORM PIPE	---
---	NATURAL GAS MAIN	---
---	WATER LATERAL	---
---	SANITARY LATERAL	---
---	STORM LATERAL	---
---	NATURAL GAS LATERAL	---
---	SIDEWALK	---
---	WALKWAY/AT. TRAIL	---
---	GUARDRAIL	---
---	TOP OF SLOPE	---
---	BOTTOM OF SLOPE	---
---	FENCELINE	---
---	CURB CUT/RAMP	---
---	AIR RELEASE VALVE	---
---	WATER VALVE	---
---	REDUCER	---
---	HYDRANT	---
---	PRECAST HEADWALL	---
---	CATCH-BASIN	---
---	UTILITY POLE w/ GUY WIRE	---
---	STREET SIGN	---
---	STREET TREE	---
---	GLB	---
---	URD	---



2	AUG. 29, 2024	ISSUED FOR ADDENDUM #2
1	JUNE 21, 2024	ISSUED FOR TENDER

ISSUE DATE DESCRIPTION CONSULTANT

**DESIGNPOINT**  
engineering • surveying • solutions

902.832.5597 designpoint.ca

CLIENT



PROJECT DESCRIPTION

WOLVILLE AT CONNECTION

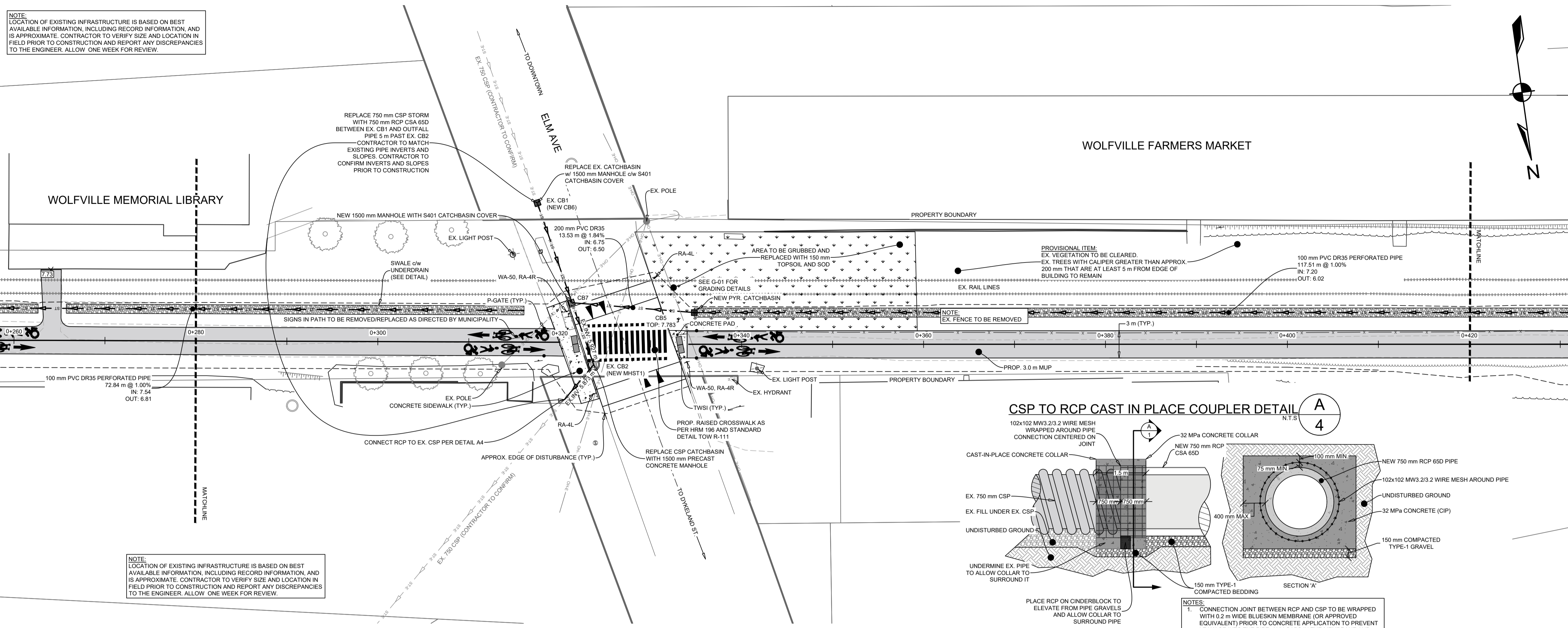
WOLVILLE, NOVA SCOTIA  
SHEET DESCRIPTION

PLAN & PROFILE  
0+120 - 0+280

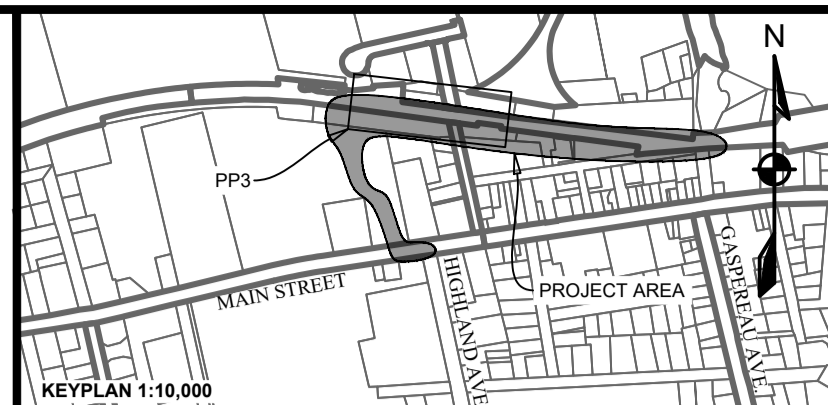
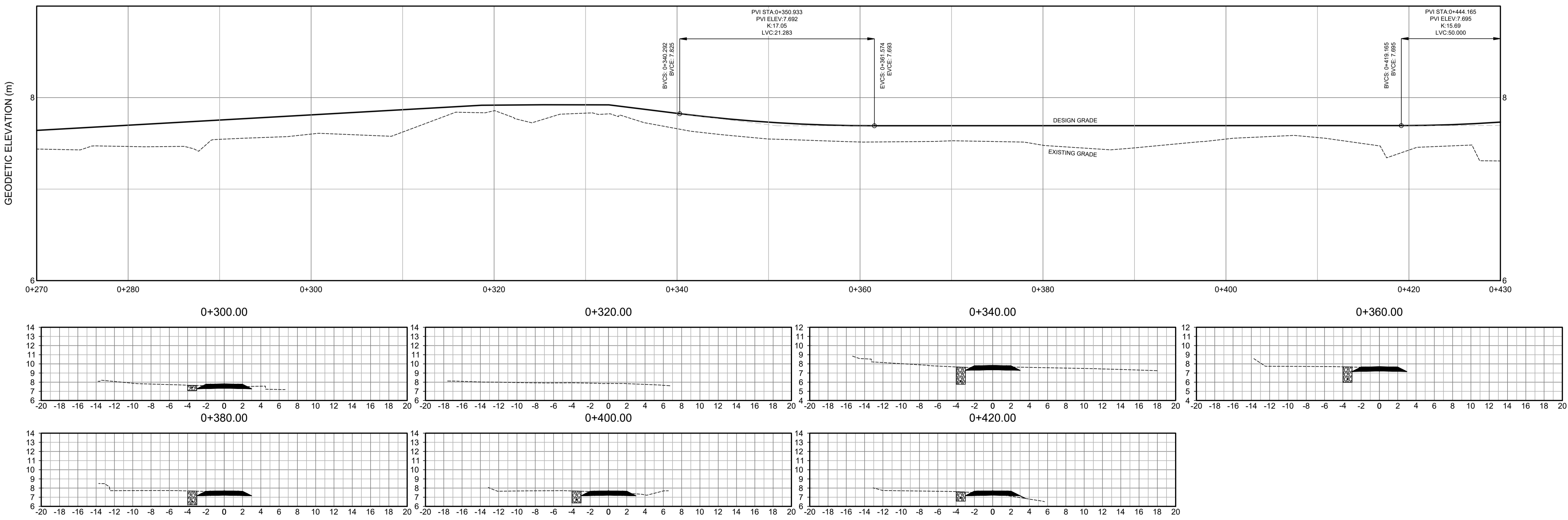
Drawn J. BENEDICT	Engineer E. DALTON	Project No. 23-410	Drawing No. PP-02
Scale 1:250 H, 1:25 V	Filename 23-410_Base - Current.dwg	3 of 10	



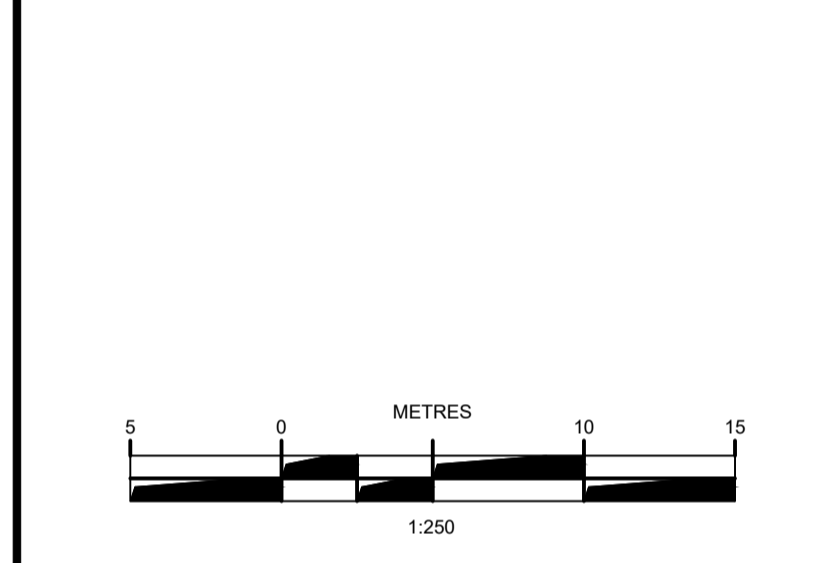
NOTE: LOCATION OF EXISTING INFRASTRUCTURE IS BASED ON BEST AVAILABLE INFORMATION, INCLUDING RECORD INFORMATION, AND IS APPROXIMATE. CONTRACTOR TO VERIFY SIZE AND LOCATION IN FIELD PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER. ALLOW ONE WEEK FOR REVIEW.



WOLFVILLE AT TRAIL CENTERLINE PROFILE



LEGEND		
EXISTING	VERTICAL PROFILE	PROPOSED
---	APPROXIMATE 1 IN 100 YEAR FLOOD LIMIT	---
---	EASEMENT	---
---	WATER PIPE	---
---	SANITARY PIPE	---
---	STORM PIPE	---
---	NATURAL GAS MAIN	---
---	WATER LATERAL	---
---	SANITARY LATERAL	---
---	STORM LATERAL	---
---	NATURAL GAS LATERAL	---
---	SIDEWALK	---
---	WALKWAY/T. TRAIL	---
---	GUARDRAIL	---
---	TOP OF SLOPE	---
---	BOTTOM OF SLOPE	---
---	FENCELINE	---
---	EXISTING PROPOSED	---
---	AIR RELEASE VALVE	---
---	WATER VALVE	---
---	HYDRANT	---
---	CATCHBASIN	---
---	UTILITY POLE w/ GUY WIRE	---
---	GLB	---
---	URD	---



ISSUE	DATE	DESCRIPTION
2	AUG. 29, 2024	ISSUED FOR ADDENDUM #2
1	JUNE 21, 2024	ISSUED FOR TENDER

CONSULTANT

**DESIGNPOINT**  
engineering • surveying • solutions

902.832.5597 designpoint.ca

CLIENT

**wolfville**

PROJECT DESCRIPTION

**WOLFVILLE AT CONNECTION**

WOLFVILLE, NOVA SCOTIA

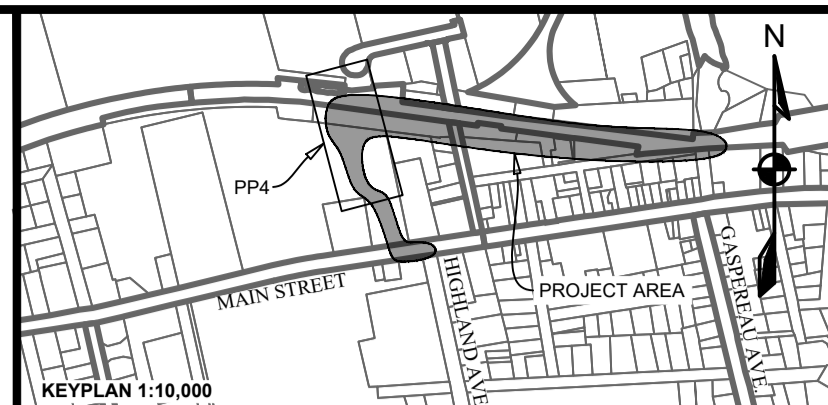
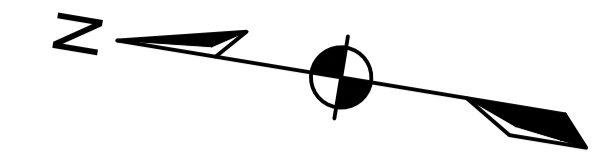
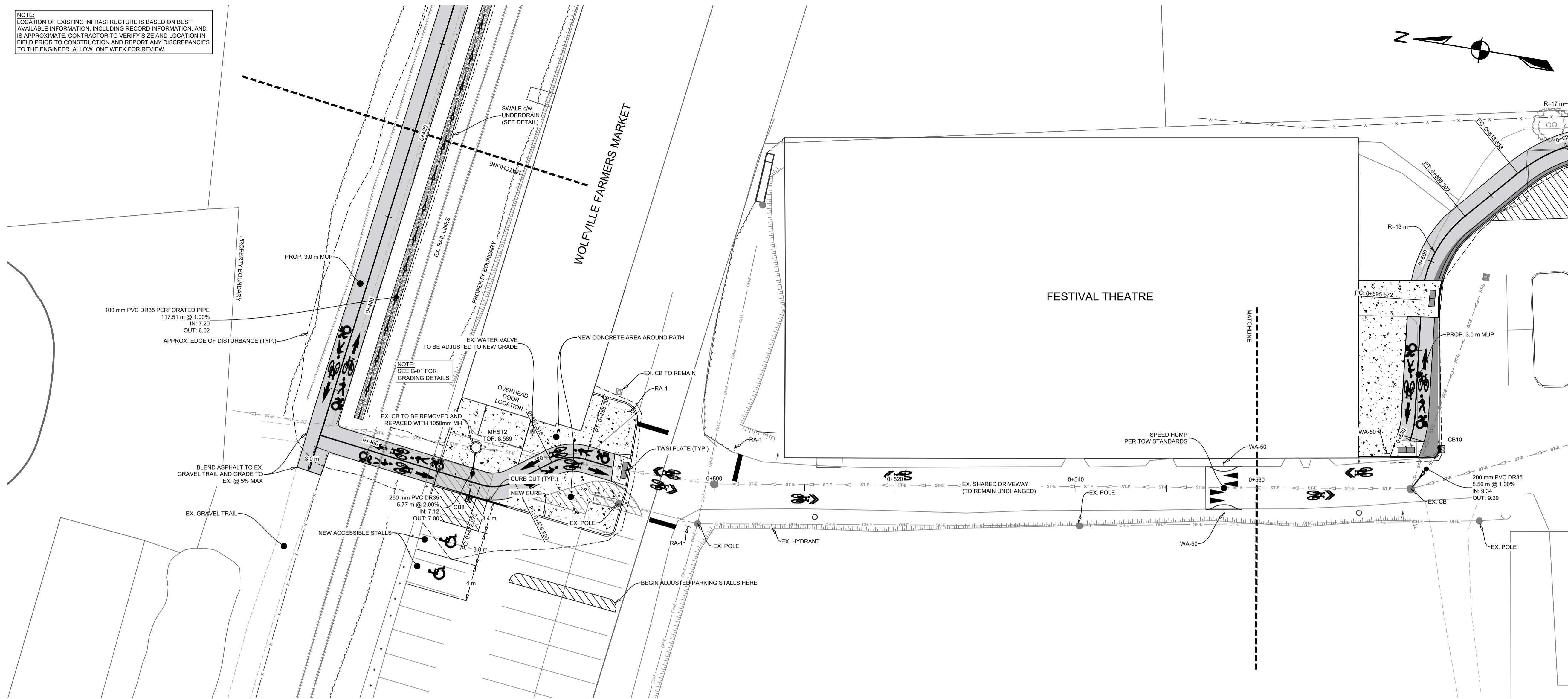
SHEET DESCRIPTION

PLAN & PROFILE

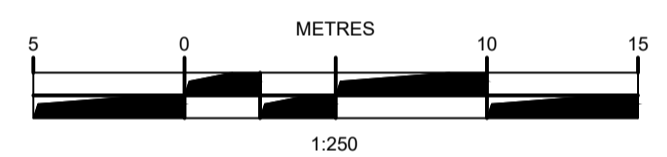
0+280 - 0+420

Drawn J. BENEDICT	Engineer E. DALTON	Project No. 23-410	Drawing No. PP-03
Scale 1:250 H, 1:50 V	Filename 23-410_Base - Current.dwg	4 of 10	

NOTE:  
 LOCATION OF EXISTING INFRASTRUCTURE IS BASED ON BEST AVAILABLE INFORMATION, INCLUDING RECORD INFORMATION, AND IS APPROXIMATE. CONTRACTOR TO VERIFY SIZE AND LOCATION IN FIELD PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER. ALLOW ONE WEEK FOR REVIEW.



LEGEND		
EXISTING	VERTICAL PROFILE	PROPOSED
---	APPROXIMATE 1 IN 100 YEAR FLOOD LIMIT	---
---	EASEMENT	---
---	WATER PIPE	---
---	SANITARY PIPE	---
---	STORM PIPE	---
---	NATURAL GAS MAIN	---
---	WATER LATERAL	---
---	SANITARY LATERAL	---
---	STORM LATERAL	---
---	NATURAL GAS LATERAL	---
---	SEWAGE	---
---	WALKWAY/T. TRAIL	---
---	GUARDRAIL	---
---	TOP OF SLOPE	---
---	BOTTOM OF SLOPE	---
---	FENCING LINE	---
---	EXISTING PROPOSED	---
---	AIR RELEASE VALVE	---
---	WATER VALVE	---
---	HYDRANT	---
---	CATCH-BASIN	---
---	UTILITY POLE w/ GUY WIRE	---
---	GLB	---
---	URD	---



WOLFVILLE AT TRAIL CENTERLINE PROFILE

ISSUE	DATE	DESCRIPTION
2	AUG. 29, 2024	ISSUED FOR ADDENDUM #2
1	JUNE 21, 2024	ISSUED FOR TENDER

**DESIGNPOINT**  
 engineering • surveying • solutions

902.832.5597 designpoint.ca



CLIENT

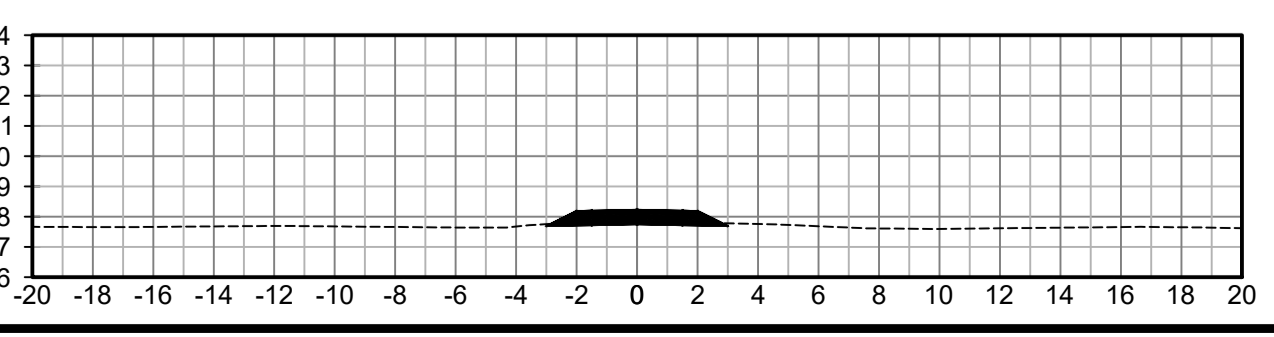
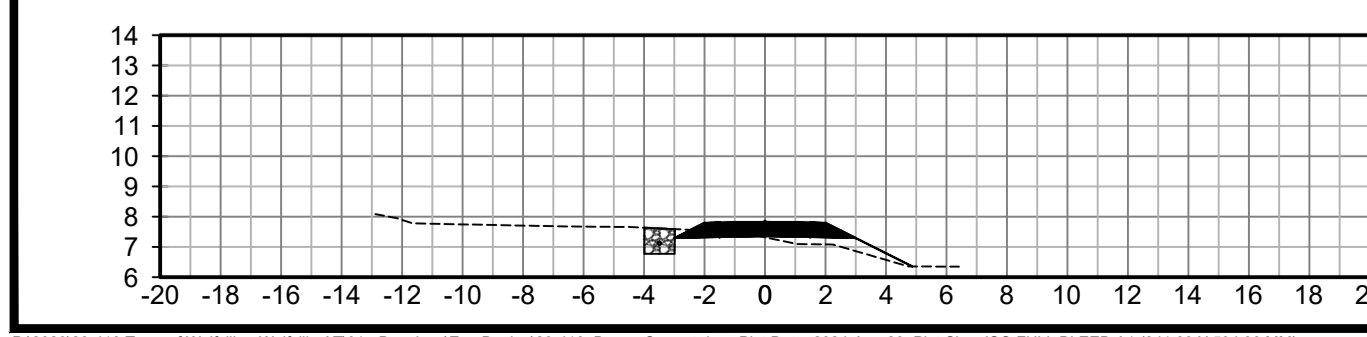
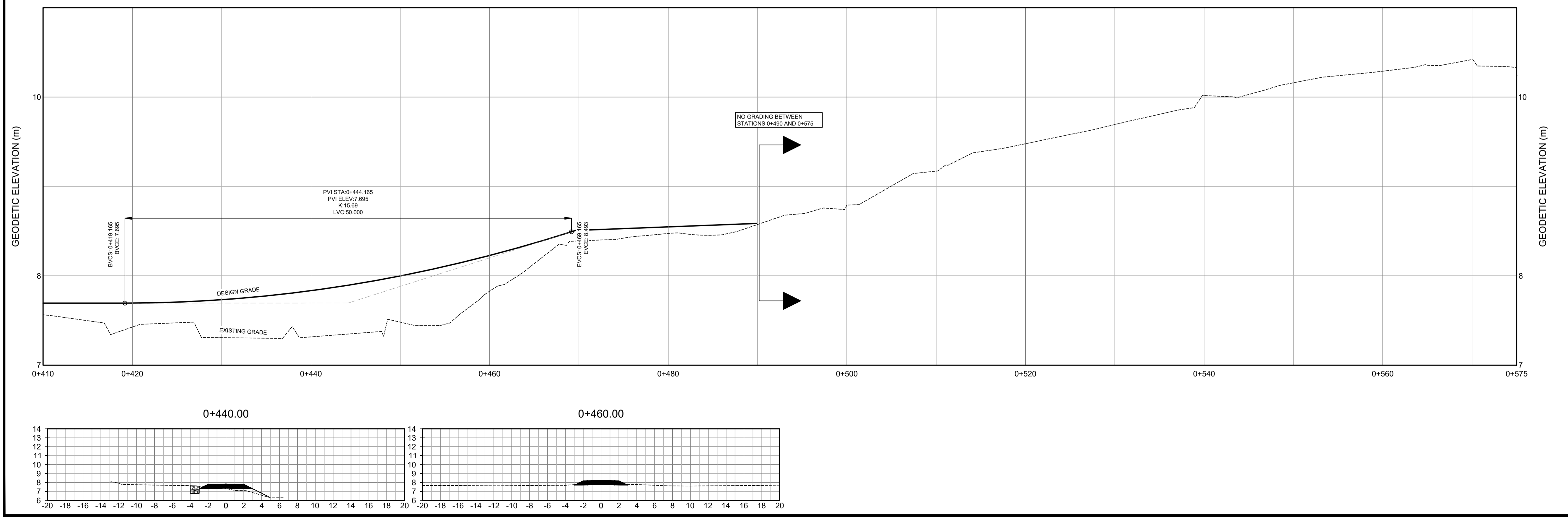
PROJECT DESCRIPTION

WOLFVILLE AT CONNECTION

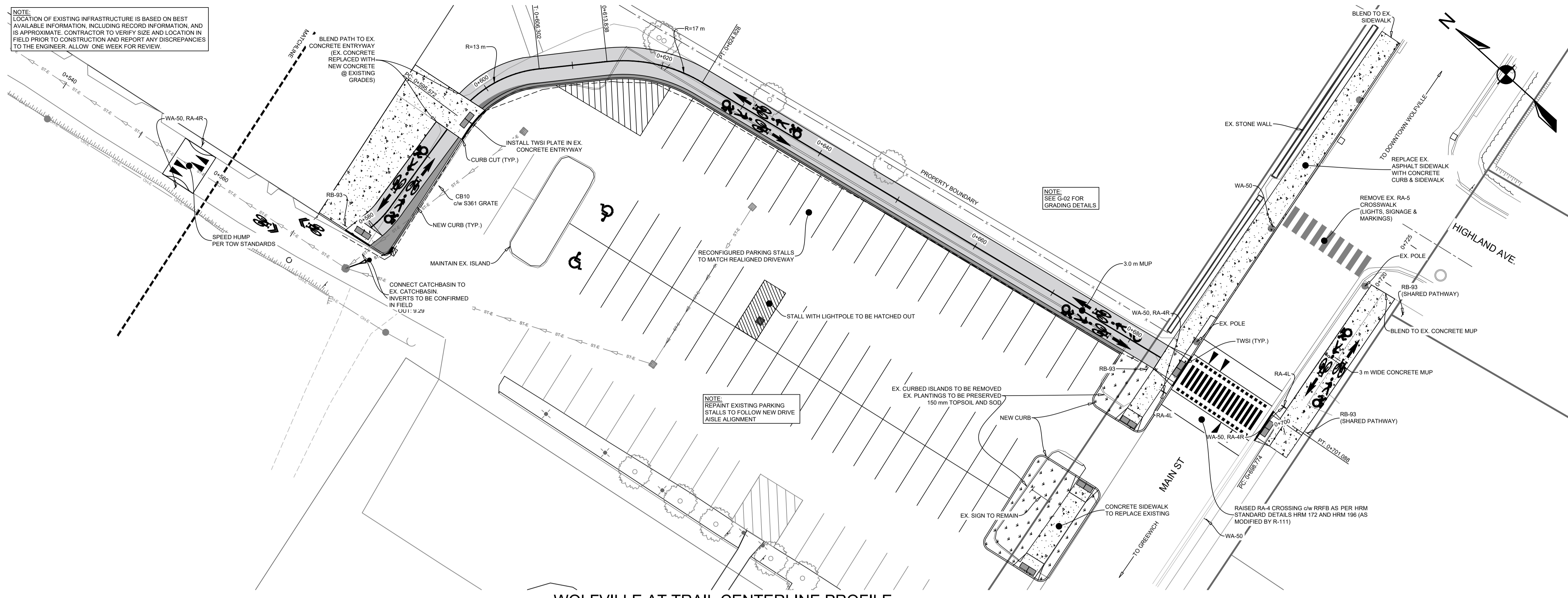
WOLFVILLE, NOVA SCOTIA  
 SHEET DESCRIPTION

PLAN & PROFILE  
 0+400 - 0+540

Drawn J. BENEDICT	Engineer E. DALTON	Project No. 23-410	Drawing No. PP-04
Scale 1:250 H, 1:25 V	Filename 23-410_Base - Current.dwg	5 of 10	



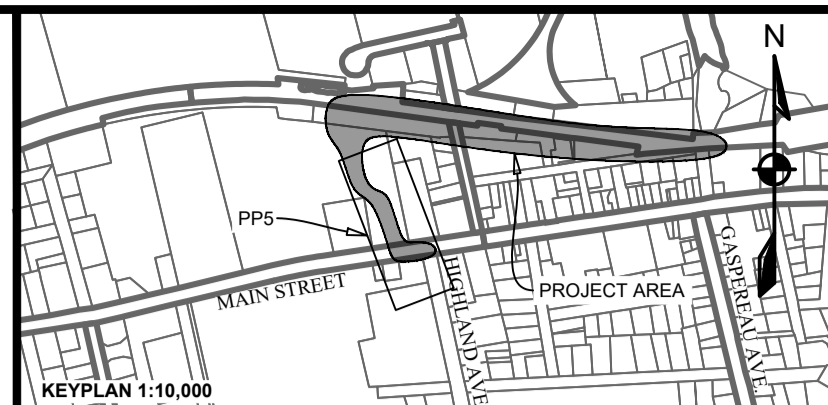
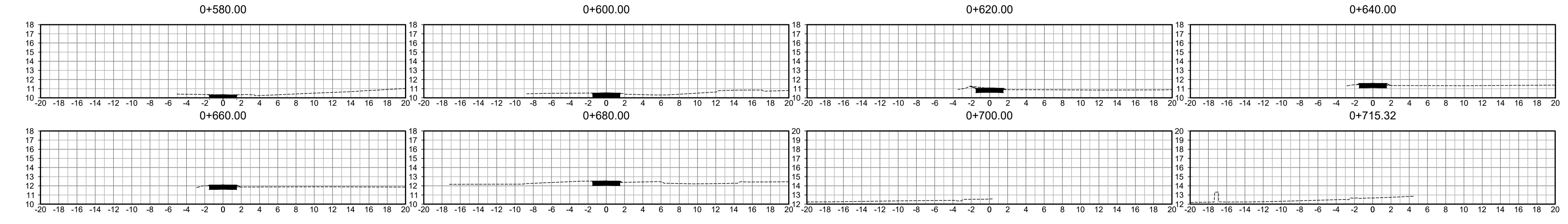
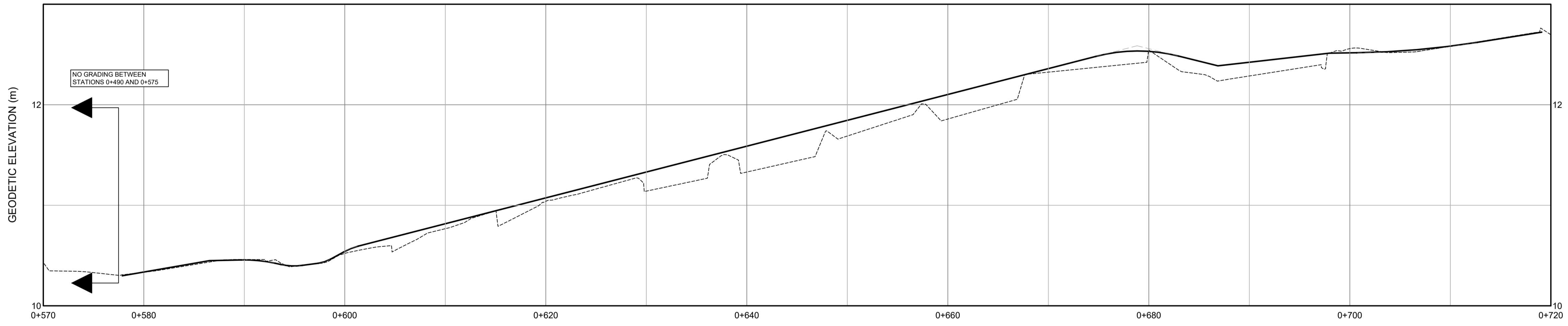
NOTE: LOCATION OF EXISTING INFRASTRUCTURE IS BASED ON BEST AVAILABLE INFORMATION, INCLUDING RECORD INFORMATION, AND IS APPROXIMATE. CONTRACTOR TO VERIFY SIZE AND LOCATION IN FIELD PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER. ALLOW ONE WEEK FOR REVIEW.



NOTE: SEE G-02 FOR GRADING DETAILS

NOTE: REPAINT EXISTING PARKING STALLS TO FOLLOW NEW DRIVE AISLE ALIGNMENT

WOLFVILLE AT TRAIL CENTERLINE PROFILE

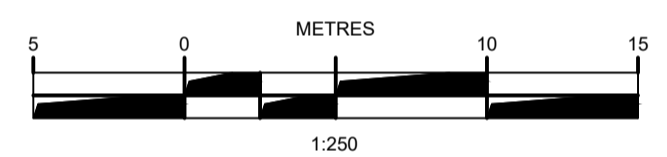


KEYPLAN 1:10,000

### LEGEND

EXISTING	VERTICAL PROFILE	PROPOSED
---	APPROXIMATE 1 IN 100 YEAR FLOOD LIMIT	---
---	EASEMENT	---
---	WATER PIPE	---
---	SANITARY PIPE	---
---	STORM PIPE	---
---	NATURAL GAS MAIN	---
---	WATER LATERAL	---
---	SANITARY LATERAL	---
---	STORM LATERAL	---
---	NATURAL GAS LATERAL	---
---	SIDEWALK	---
---	WALKWAY/AT. TRAIL	---
---	GUARDRAIL	---
---	TOP OF SLOPE	---
---	BOTTOM OF SLOPE	---
---	FENCELINE	---

EXISTING	PROPOSED	EXISTING	PROPOSED
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---



ISSUE	DATE	DESCRIPTION
2	AUG. 29, 2024	ISSUED FOR ADDENDUM #2
1	JUNE 21, 2024	ISSUED FOR TENDER

CONSULTANT

**DESIGNPOINT**  
engineering • surveying • solutions

902.832.5597 designpoint.ca

CLIENT



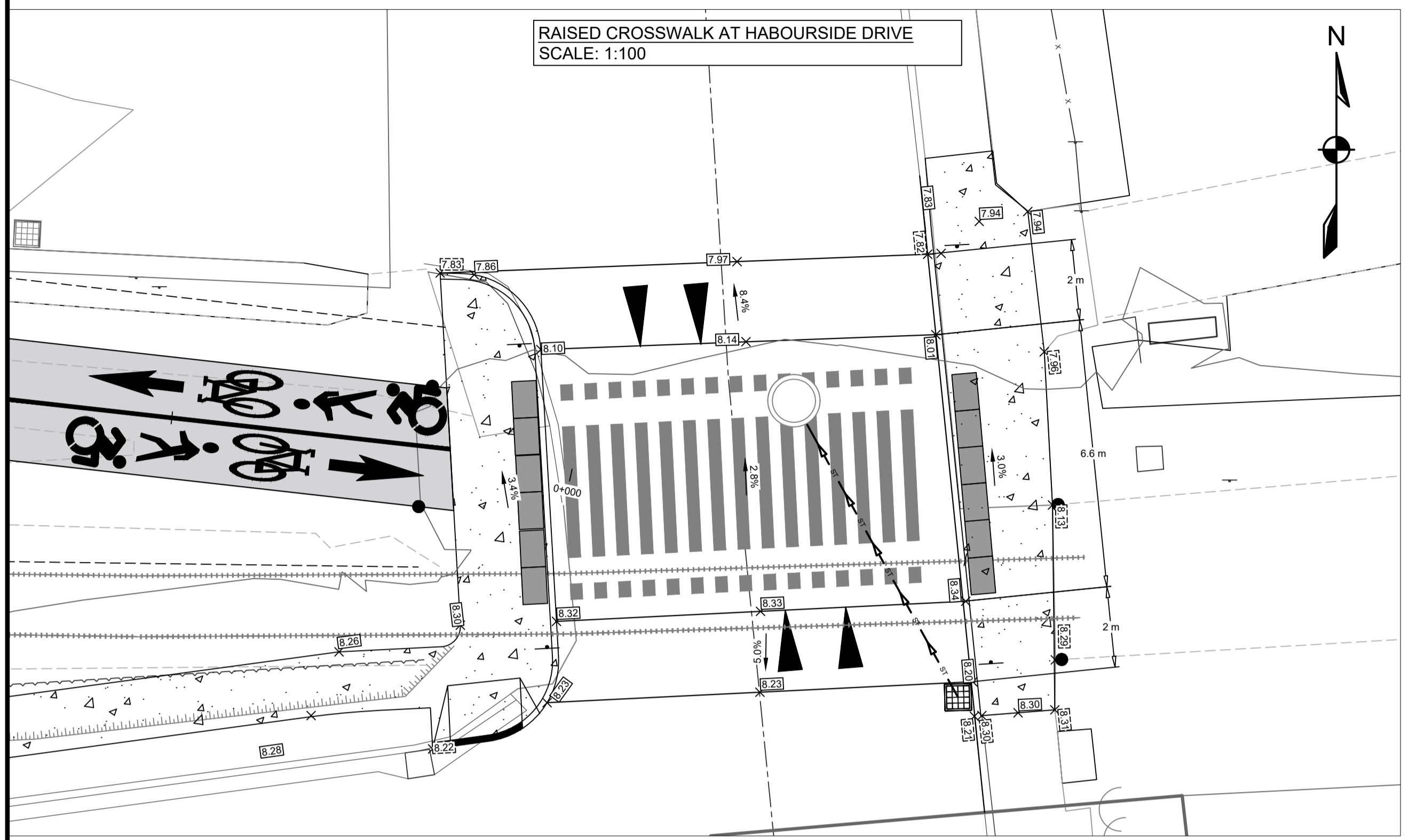
PROJECT DESCRIPTION

WOLFVILLE AT CONNECTION

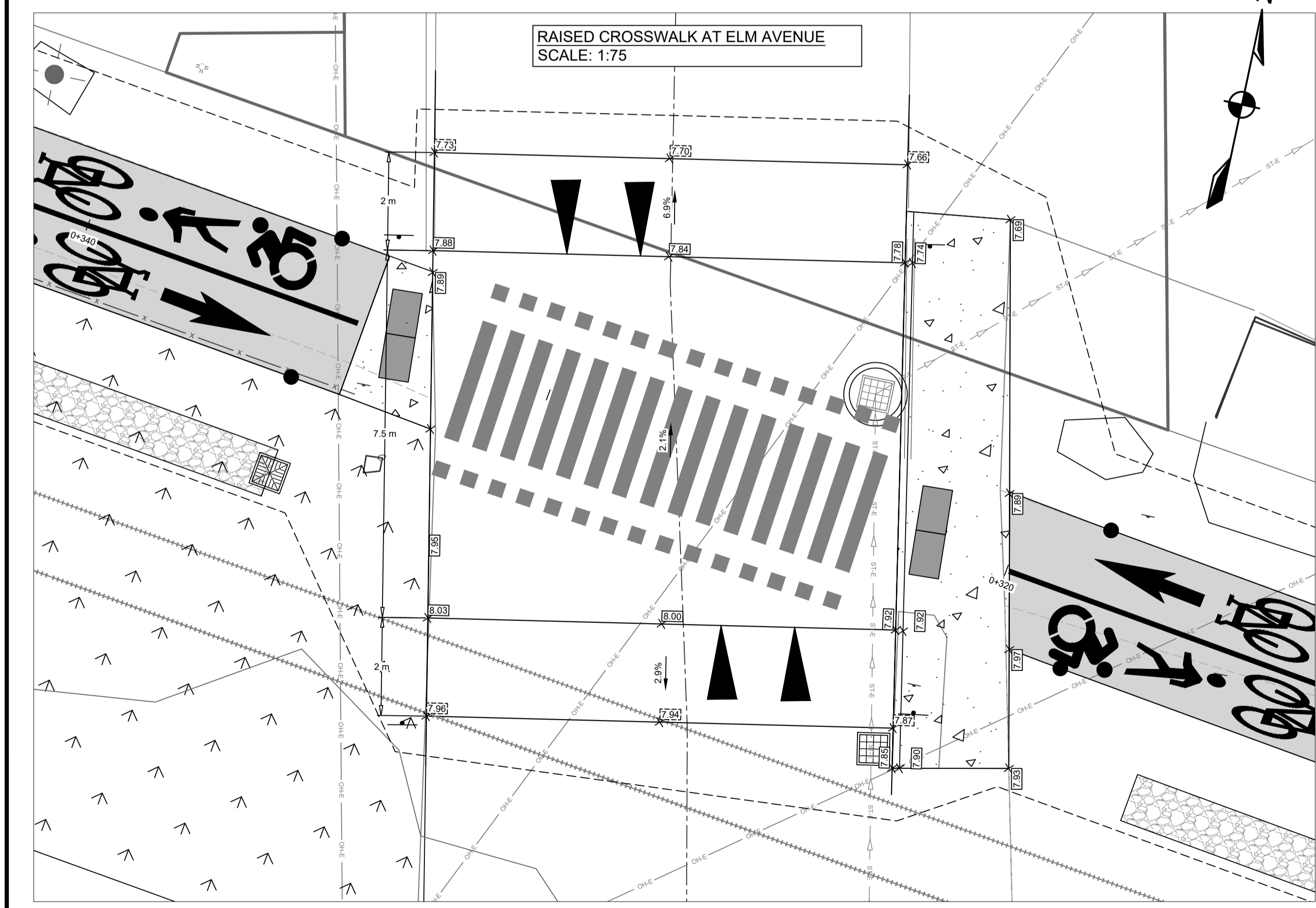
WOLFVILLE, NOVA SCOTIA  
SHEET DESCRIPTION

PLAN & PROFILE  
0+540 - 0+680

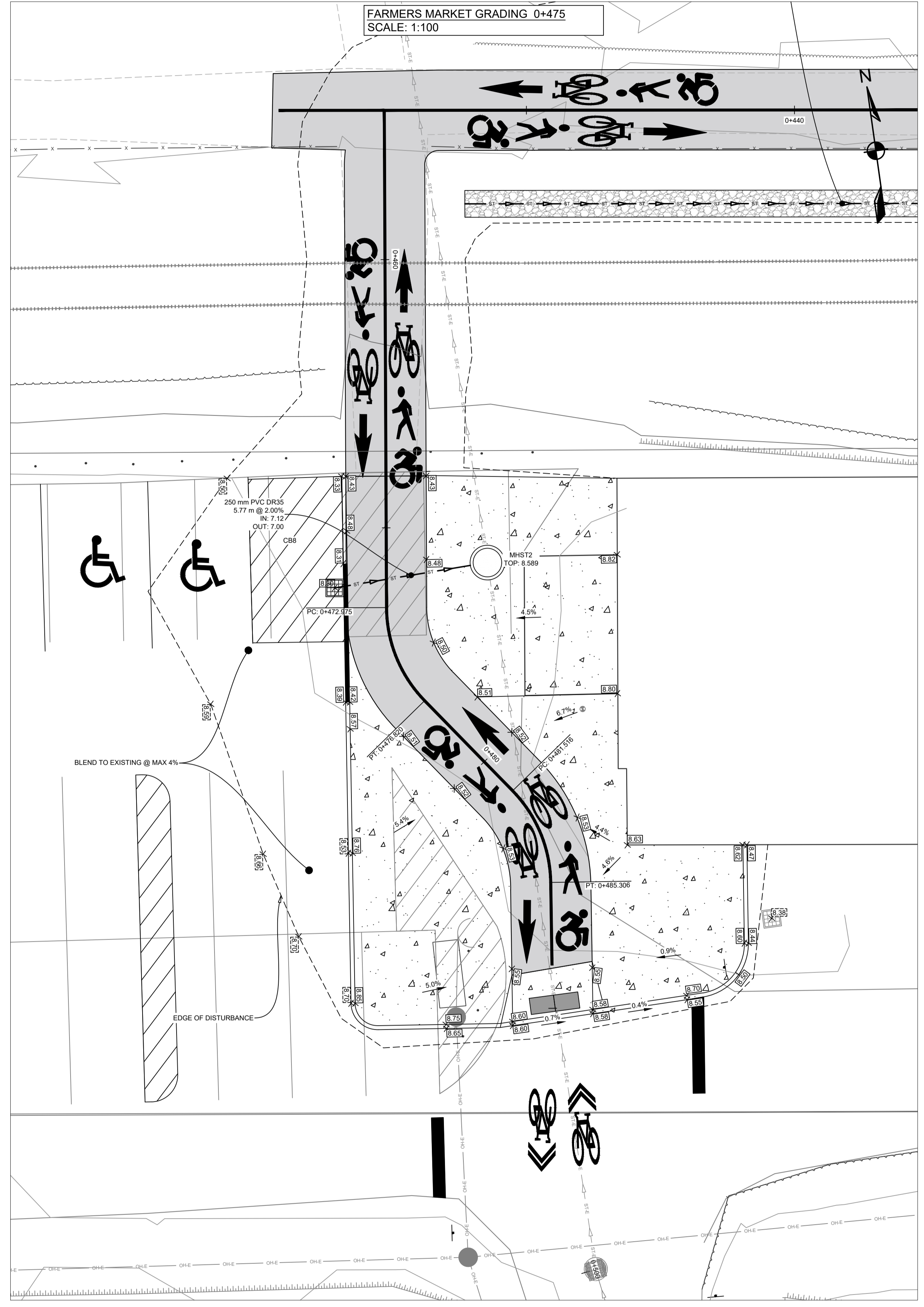
Drawn	Engineer	Project No.	Drawing No.
J. BENEDICT	E. DALTON	23-410	PP-05
Scale	Filename		
1:250 H, 1:25 V	23-410_Base - Current.dwg		6 of 10



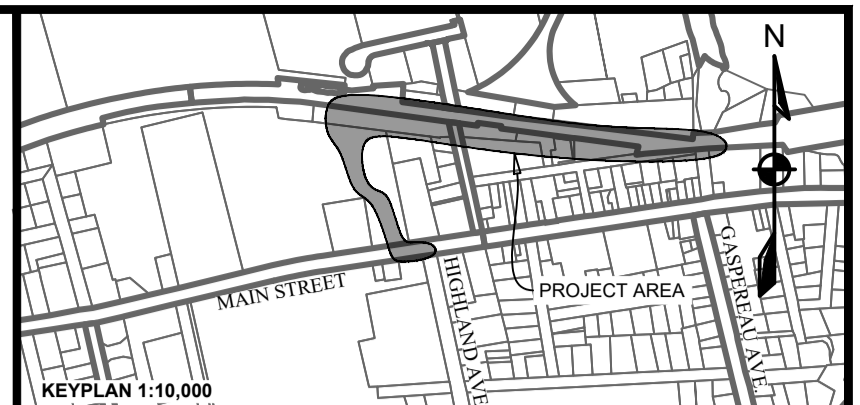
RAISED CROSSWALK AT HABOURSIDE DRIVE  
SCALE: 1:100



RAISED CROSSWALK AT ELM AVENUE  
SCALE: 1:75



FARMERS MARKET GRADING 0+475  
SCALE: 1:100



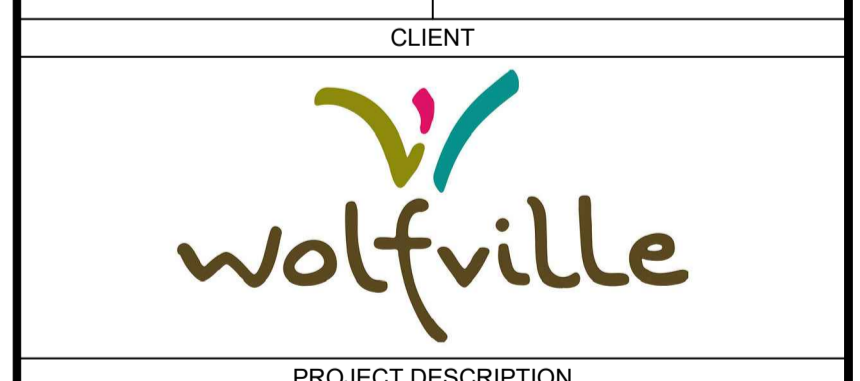
KEYPLAN 1:10,000

LEGEND		
EXISTING	PROPOSED	PROPOSED
-10	MAJOR CONTOUR	-10
-10	MINOR CONTOUR	-10
- - -	EASEMENT	- - -
- - -	RIGHT OF WAY	- - -
- - -	LOT LINE	- - -
EXISTING PROPOSED	EXISTING PROPOSED	EXISTING PROPOSED
PRECAST HEADWALL	CATCHBASIN	EXISTING PROPOSED
SURFACE GRADE	FLOW ARROW	
SURFACE SLOPE	CURB CUT	

ISSUE	DATE	DESCRIPTION
2	AUG. 29, 2024	ISSUED FOR ADDENDUM #2
1	JUNE 21, 2024	ISSUED FOR TENDER

**DESIGNPOINT**  
engineering • surveying • solutions

902.832.5597 designpoint.ca



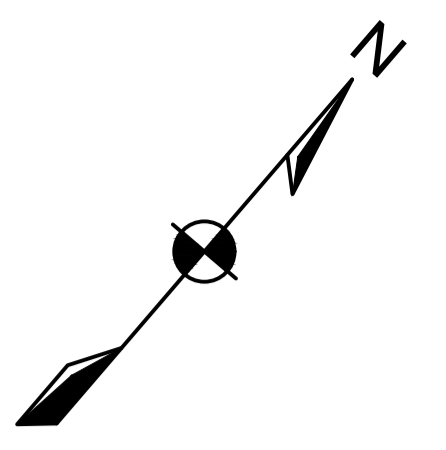
PROJECT DESCRIPTION

**WOLFVILLE AT CONNECTION**

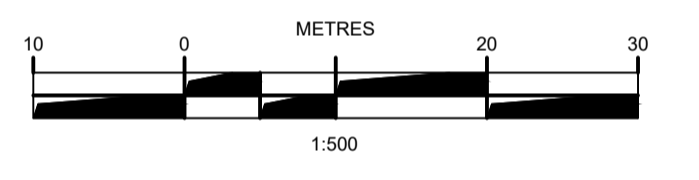
WOLFVILLE, NOVA SCOTIA  
SHEET DESCRIPTION

**GRADING SHEET 1**

Drawn J. BENEDICT	Engineer E. DALTON	Project No. 23-410	Drawing No. G-01
Scale AS NOTED	Filename 23-410_Base - Current.dwg	7 of 10	



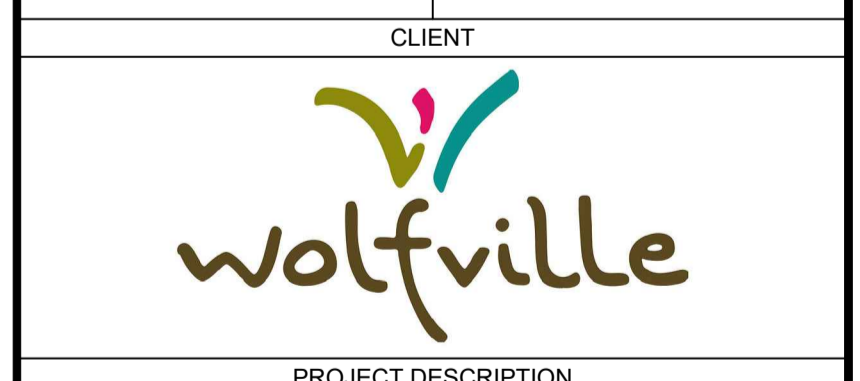
LEGEND			
EXISTING		PROPOSED	
-10	MAJOR CONTOUR	-10	
-10	MINOR CONTOUR	-10	
---	EASEMENT	---	
---	RIGHT OF WAY	---	
---	LOT LINE	---	
▭	PRECAST HEADWALL	▭	EXISTING PROPOSED
▭	SURFACE GRADE	▭	CATCHBASIN
▭	SURFACE SLOPE	▭	FLOW ARROW
		▭	CURB CUT



ISSUE	DATE	DESCRIPTION
2	AUG. 29, 2024	ISSUED FOR ADDENDUM #2
1	JUNE 21, 2024	ISSUED FOR TENDER

**DESIGNPOINT**  
engineering • surveying • solutions

902.832.5597 [designpoint.ca](http://designpoint.ca)



PROJECT DESCRIPTION

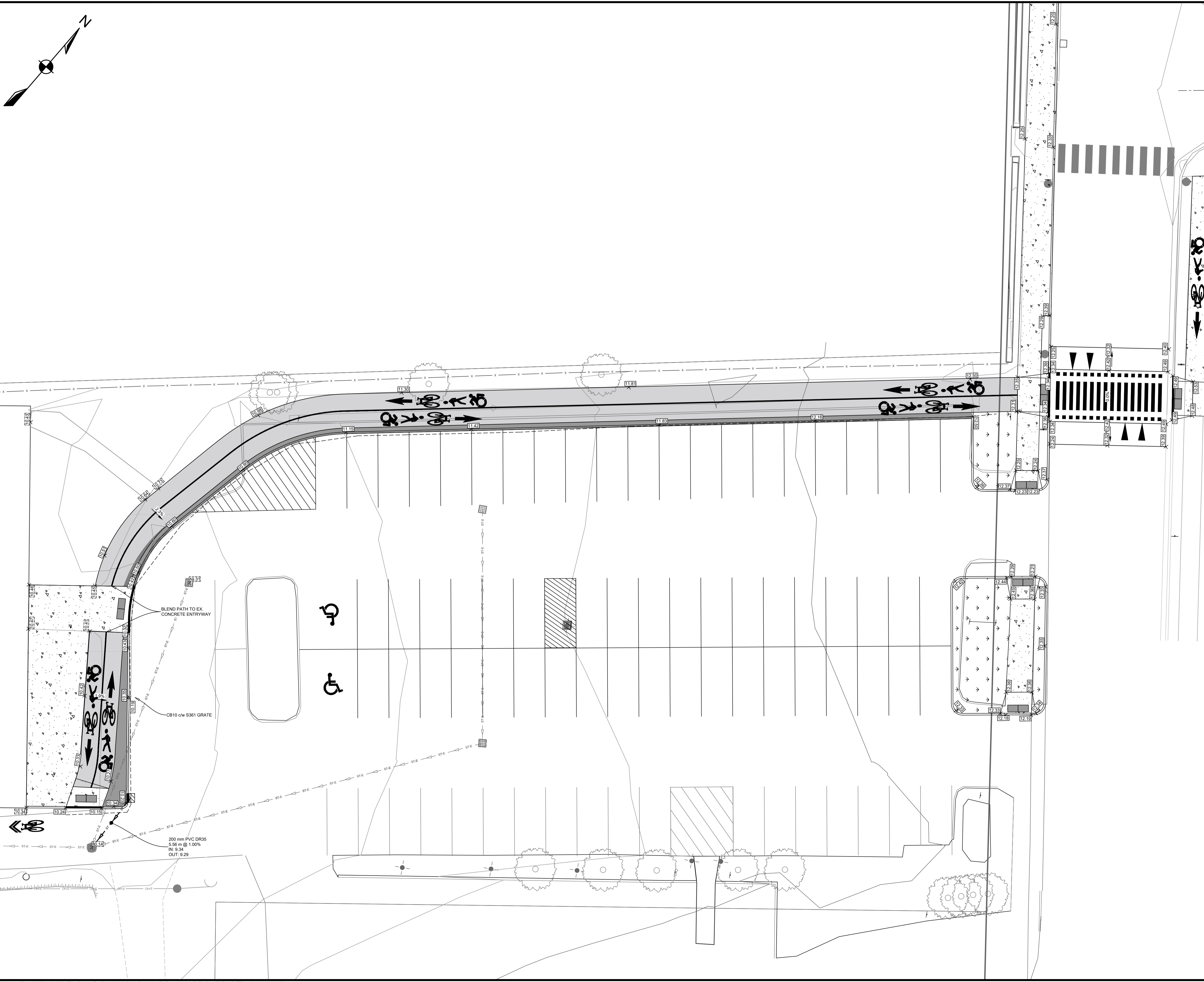
**WOLFVILLE AT CONNECTION**

WOLFVILLE, NOVA SCOTIA

SHEET DESCRIPTION

**GRADING SHEET 2**

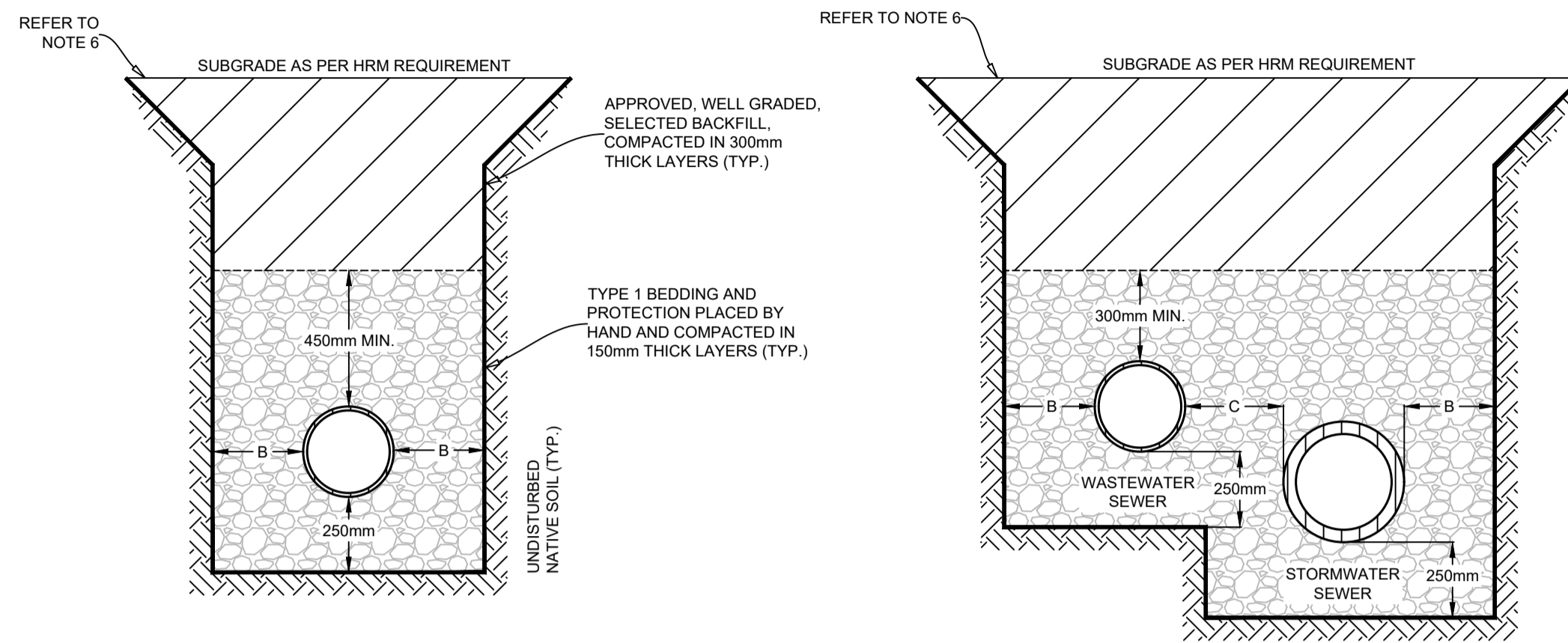
Drawn J. BENEDICT	Engineer E. DALTON	Project No. 23-410	Drawing No. G-02
Scale 1:150	Filename 23-410_Base - Current.dwg		8 of 10





### TRENCH AND BACKFILL CROSS SECTIONS

A  
10

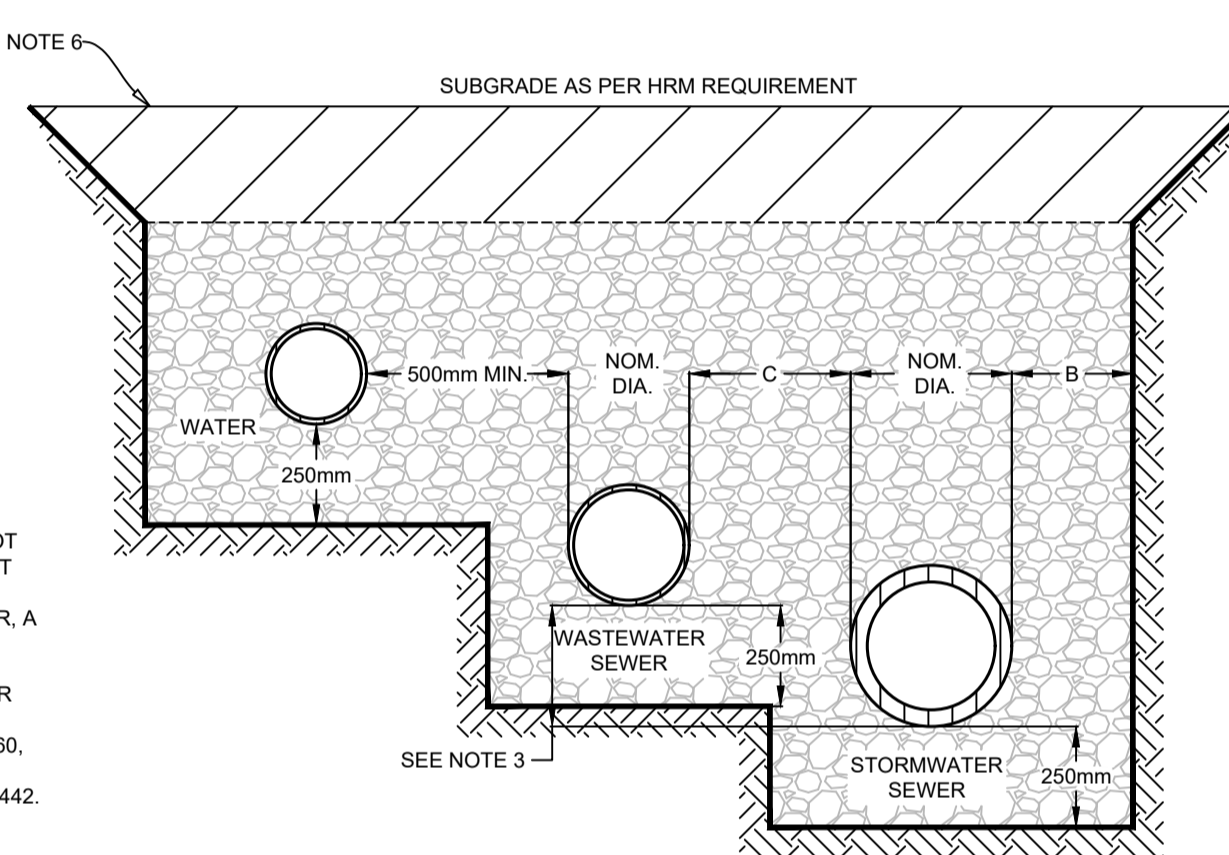


PIPE SIZE NOM. DIA.	DIMENSIONS (mm)	
	B	C
UP TO 375 mm	300	250
376 TO 500 mm	300	300
501 TO 750 mm	400	300
751 TO 1200 mm	400	400

BEDDING REQUIREMENTS SHALL BE 250 mm AS PER SECTIONS.

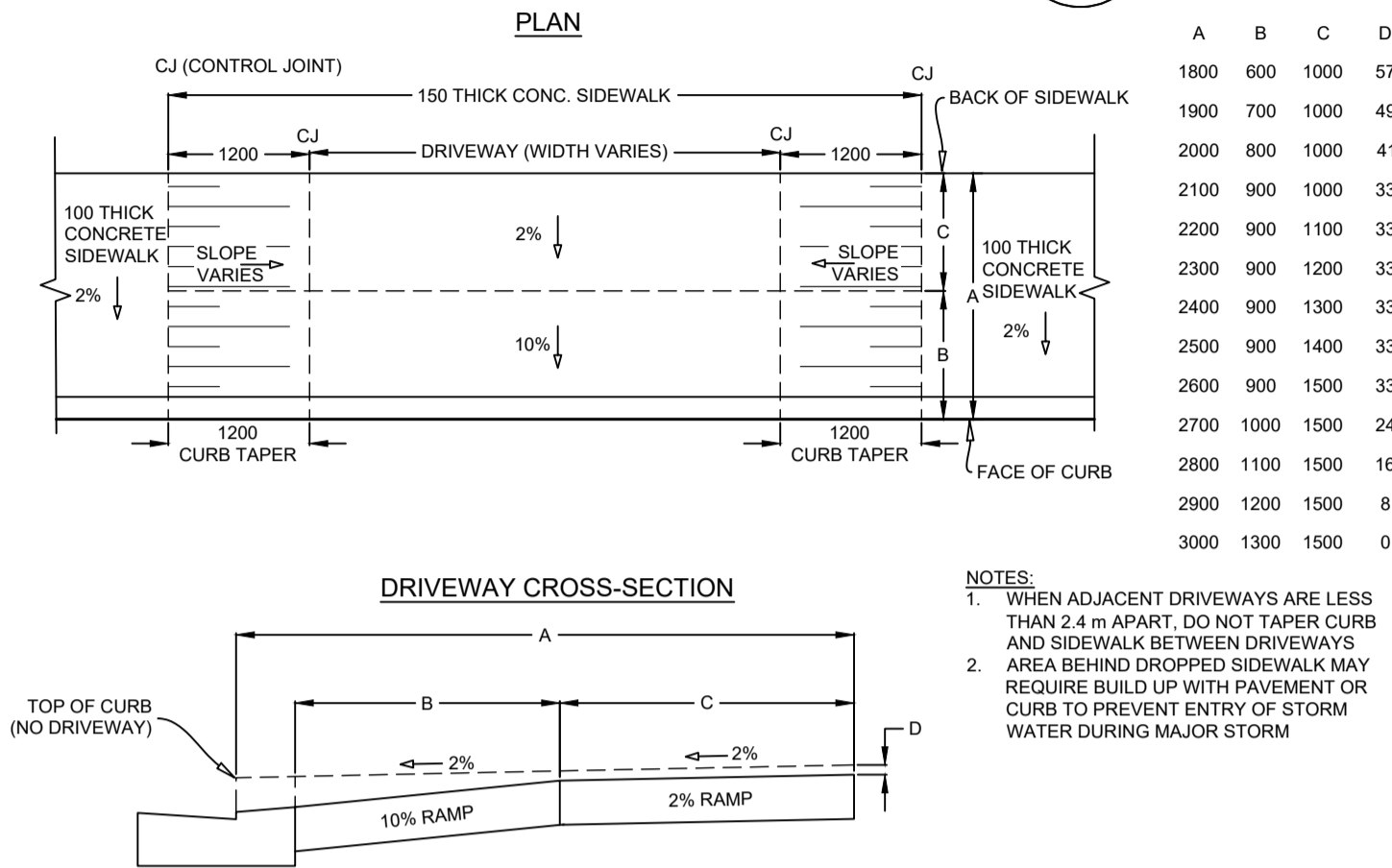
NOTES

- DIMENSION "C" IS GOVERNED BY THE LARGER PIPE DIAMETER.
- SIDES OF TRENCHES TO REQUIREMENTS OF DEPARTMENT OF LABOUR.
- IF CROWNS OF STORMWATER AND WASTEWATER SEWER ARE NOT MATCHED, THE INVERT OF THE STORMWATER SEWER MUST BE AT LEAST 100mm BELOW THE INVERT OF THE WASTEWATER SEWER.
- WHEN CONCRETE PIPE IS SPECIFIED FOR A WASTEWATER SEWER, A GEOTECHNICAL REPORT BY A P.ENG. MUST BE UNDERTAKEN TO ENSURE STABILITY OF SUBBASE.
- MINIMUM GRAVEL COVER OVER WASTEWATER AND STORMWATER SEWERS IS TO BE 300mm.
- REFER TO HRM TRENCH REINSTATEMENT DETAILS HRM 59, HRM 60, AND HRM 61.
- FOR CONCRETE PIPE INSTALLATION, PLEASE REFER TO HWSD - 1442.



### CONCRETE SIDEWALK ADJACENT CURB DETAIL

B  
10



### GENERAL CONSTRUCTION NOTES:

- SAFETY IS PARAMOUNT AND THE CONTRACTOR MUST USE SAFE WORK PRACTICES IN ACCORDANCE WITH THE NOVA SCOTIA OCCUPATIONAL HEALTH AND SAFETY ACT.
- ALL WORKS TO BE IN ACCORDANCE WITH TOWN OF WOLFVILLE STANDARDS AND REQUIREMENTS.
- ALL WORKS TO BE IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR MUNICIPAL SERVICES PREPARED JOINTLY BY THE NOVA SCOTIA ROADBUILDERS ASSOCIATION AND THE CONSULTING ENGINEERS OF NOVA SCOTIA (CURRENT EDITION).
- ALL WORKS TO BE IN ACCORDANCE WITH REQUIREMENTS OF ALL PERMITS AND REGULATIONS AS ISSUED BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
- CONTRACTOR TO NOTIFY DESIGNSPOINT AND TOWN OF WOLFVILLE REGARDING CONSTRUCTION SCHEDULING 2 WEEKS PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF NATURAL WATERCOURSES FROM DAMAGE DUE TO SILT LAZES RUNOFF FROM THE CONSTRUCTION SITE. ACCEPTABLE CONSTRUCTION PROCEDURES MAY BE OBTAINED FROM EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES (CURRENT EDITION) BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
- ALL DISTURBED AREAS NOT STABILIZED BY GRAVEL, ASPHALT, CONCRETE, OR SOD ARE TO BE STABILIZED WITH 100mm TOPSOIL AND HYDROSEED. HYDROSEED AREAS TO BE COVERED WITH HAY MULCH (MIN. 3500 kg/ha). HYDROSEED AREAS THAT DO NOT SHOW ACTIVE GROWTH WITHIN THE FIRST GROWING SEASON TO BE RE-STABILIZED. MATERIALS SHALL NOT BE SUBSTITUTED UNLESS PRIOR APPROVAL IS PROVIDED BY THE ENGINEER.
- SHOP DRAWINGS TO BE PROVIDED FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM WORKS AND TO COMPLY WITH ALL PERMIT REQUIREMENTS AND CONDITIONS.
- LOCATIONS OF EXISTING INFRASTRUCTURE IS BASED ON BEST AVAILABLE INFORMATION, INCLUDING RECORD INFORMATION. CONTRACTOR TO CONFIRM LOCATIONS OF EXISTING INFRASTRUCTURE AND NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
- CONTRACTOR TO ALLOW A 1 WEEK REVIEW PERIOD BY THE ENGINEER.
- CONTRACTOR TO VERIFY ALL EXISTING UTILITY LOCATIONS, SUCH AS EASTWARD ENERGY, NOVA SCOTIA POWER, BELL ALIANT, EASTLINK, AND THE TOWN OF WOLFVILLE. CONTRACTOR TO NOTIFY DESIGNSPOINT AND TOWN OF WOLFVILLE PRIOR TO COMPLETING ANY EXCAVATION. CONTRACTOR SHALL ADHERE TO ALL OCCUPATIONAL HEALTH AND SAFETY REGULATIONS FOR WORKING AROUND LIVE GAS MAINS.
- ALL POWER AND COMMUNICATION INFRASTRUCTURE TO BE INSTALLED AS PER NSPI AND COMMUNICATION PROVIDER (I.E. BELL) SPECIFICATIONS. CONTRACTOR TO CONFIRM AND COORDINATE WITH UTILITIES AS REQUIRED.
- PERMISSION FROM LANDOWNERS IS REQUIRED TO WORK ON PRIVATE PROPERTY.
- CONTRACTOR TO NOTIFY PROPERTY OWNERS WHO WILL EXPERIENCE DISRUPTION DURING THE WORK (PROPERTY ACCESS, MUNICIPAL SERVICE LOSS, POWER/COMMUNICATION LOSS, ETC.) AT LEAST 48 HOURS PRIOR TO THE DISRUPTION.
- ALL ELEVATIONS ARE METRIC AND GEODETIC. TOPOGRAPHICAL SURVEY COMPLETED BY DESIGNSPOINT IN JULY 2023. CONTRACTOR TO CONTACT DESIGNSPOINT FOR CONSTRUCTION LAYOUT CONTROL INFORMATION 2 WEEKS PRIOR TO CONSTRUCTION.
- ALL EARTHWORK (INCLUDING SUBGRADE), TRENCH WORK, PIPE BEDDING, AND SURFACE TREATMENT (INCLUDING GRAVELS, ASPHALT, AND CONCRETE) TO BE REVIEWED AND CERTIFIED BY PROJECT GEOTECHNICAL ENGINEER.
- DRAWINGS SUBJECT TO CONSTRUCTION APPROVAL BY THE APPLICABLE APPROVAL AGENCIES (I.E. TOWN OF WOLFVILLE, NOVA SCOTIA DEPARTMENT OF ENVIRONMENT) PRIOR TO CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES REQUIRED FOR THE PROJECT. ALL TEMPORARY TRAFFIC CONTROL MEASURES TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NOVA SCOTIA TRANSPORTATION AND INFRASTRUCTURE RENEWAL TEMPORARY WORKPLACE TRAFFIC CONTROL MANUAL AND THE LATEST EDITION OF THE TRANSPORTATION ASSOCIATION OF CANADA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA.
- INSULATION TO BE 20mm THICK H40 RIGID STYROFOAM (ROAD AND TRAFFIC RATED).
- CONTRACTOR MAY REQUEST GRADE ADJUSTMENTS SUBJECT TO REVIEW AND APPROVAL BY ENGINEER AND APPLICABLE APPROVAL AGENCIES. CONTRACTOR RESPONSIBLE FOR COSTS ASSOCIATED WITH DRAWING REVISIONS AND APPROVALS.
- BEDDING GRAVELS MAY NOT BE SUBSTITUTED FOR CLEAR STONE WITHOUT WRITTEN APPROVAL FROM THE PROJECT GEOTECHNICAL ENGINEER. PLACE GEOTEXTILE FABRIC BETWEEN CLEAR STONE AND ABUTTING MATERIAL.
- ALL TEMPORARY ROAD CLOSURES WILL REQUIRE A ROAD CLOSURE PERMIT.
- AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR IS TO COMPLETE AND PROVIDE A COPY OF A CCTV INSPECTION AND REPORT TO THE ENGINEER FOR REVIEW OF ALL GRAVITY SEWERS 150 mm Ø OR LARGER.
- ALL TESTING OF SEWERS TO BE IN ACCORDANCE WITH SECTION 33.31.00 OF BLUE BOOK.
- WATER MAINS AND SERVICES PRIOR TO TESTING (PUBLIC AND PRIVATE INFRASTRUCTURE).
- ANY FIELD MANHOLE CONNECTIONS (IF REQUIRED) TO BE MADE USING CORE DRILL AND ROVER-SEAL (SUBJECT TO APPROVAL BY UTILITY AND ENGINEER).
- ALL GRAVITY PIPE TO BE INSTALLED IN AN UPSTREAM DIRECTION. CONTRACTOR TO BEGIN PIPE INSTALLATION AT THE MOST DOWNSTREAM LOCATION. INSTALLING TEMPORARILY ORPHANED PIPE SECTIONS IS NOT ACCEPTABLE UNLESS APPROVED BY THE UTILITY AND THE ENGINEER.
- CONTRACTOR TO PROVIDE 24 HOURS NOTICE TO TOWN OF WOLFVILLE AND THE ENGINEER OF PIPE AND MANHOLE TESTING, INCLUDING CCTV INSPECTION AND DEFLECTION TESTING.
- MAINTAIN 2.0 m OF UNDISTURBED & RETAINED SOIL AROUND ALL UTILITY POLES, AND 3.0 m AROUND ANCHORS. IF THESE CONDITIONS CANNOT BE MET, THEN THE CONTRACTOR MUST HOLD THE POLES WITH A NON-DESTRUCTIVE (NO BOLTING THROUGH POLE) POLE SUPPORT MECHANISM. THIS MUST BE AN ENGINEERED SYSTEM AND A STAMPED ENGINEERING DRAWING MUST BE FORWARDED TO THE POLE OWNER FOR APPROVAL.

			####
			####
			####
2	AUG. 29, 2024	ISSUED FOR ADDENDUM #2	####
1	JUNE 21, 2024	ISSUED FOR TENDER	####

ISSUE	DATE	DESCRIPTION
		CONSULTANT

**DESIGNSPOINT**  
engineering • surveying • solutions

902.832.5597 [designpoint.ca](http://designpoint.ca)



CLIENT

PROJECT DESCRIPTION

**WOLFVILLE AT CONNECTION**

WOLFVILLE, NOVA SCOTIA

SHEET DESCRIPTION

DETAILS

Drawn	Engineer	Project No.	Drawing No.
J. BENEDICT	E. DALTON	23-410	D-10
Scale	Filename		
N.T.S.	23-410_Base - Current.dwg		10 of 10

**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 3)
    - .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
3.	Mass Excavation – Common	m <sup>3</sup>	860		
5.	Mass Excavation – Unsuitable Material (Provisional)	m <sup>3</sup>	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		
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
<b>STREET CONSTRUCTION CONTINUED</b>					
45.	Sidewalk				
.1	Concrete				
.1	100mm Standard	m <sup>2</sup>	598		
.2	150mm at Driveways	m <sup>2</sup>	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	ea	1		
54.	Active Transportation Trail	m <sup>2</sup>	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
----------	-------------	---------------------	--------------------	------------	------------

LANDSCAPING

61.	Topsoil and Sod				
.1	100mm	m <sup>2</sup>	1680		
.2	150mm	m <sup>2</sup>	385		

SUBTOTAL LANDSCAPING: \$ \_\_\_\_\_

ADDITIONAL ITEMS

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

SUBTOTAL ADDITIONAL ITEMS: \$ \_\_\_\_\_

ENVIRONMENTAL PROTECTION

90.	Environmental Protection	L.S.	1		
-----	--------------------------	------	---	--	--

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
<b>STREET CONSTRUCTION</b>					
44.	Curb				
.1a	Concrete Curb and Gutter	m	9		
.1b	Curb Removal	m	9		
45.	Sidewalk				
.1	Concrete				
.2	150mm Concrete	m <sup>2</sup>	14		
.2	Asphalt Walkway	m <sup>2</sup>	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 <sup>2</sup>	30		

SUBTOTAL LANDSCAPING: \$ \_\_\_\_\_

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

**ENVIRONMENTAL PROTECTION**

90.	Environmental Protection	L.S.	1		
-----	--------------------------	------	---	--	--

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
<b>STREET CONSTRUCTION</b>					
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		
-----	--------------------------	------	---	--	--

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	\$ _____
<b>PROJECT CONTINGENCY ALLOWANCE</b>	\$ _____ 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.
-



**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 (m<sup>3</sup>) 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 (m<sup>3</sup>)

*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, excavation, disposal of surplus material, 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 (m<sup>2</sup>)

*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

*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 (m<sup>2</sup>)

*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, excavation and embankment, backfill, 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 (m<sup>2</sup>)

*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 (m<sup>3</sup>)

*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 (m<sup>3</sup>)

*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 (m<sup>3</sup>)  
*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.

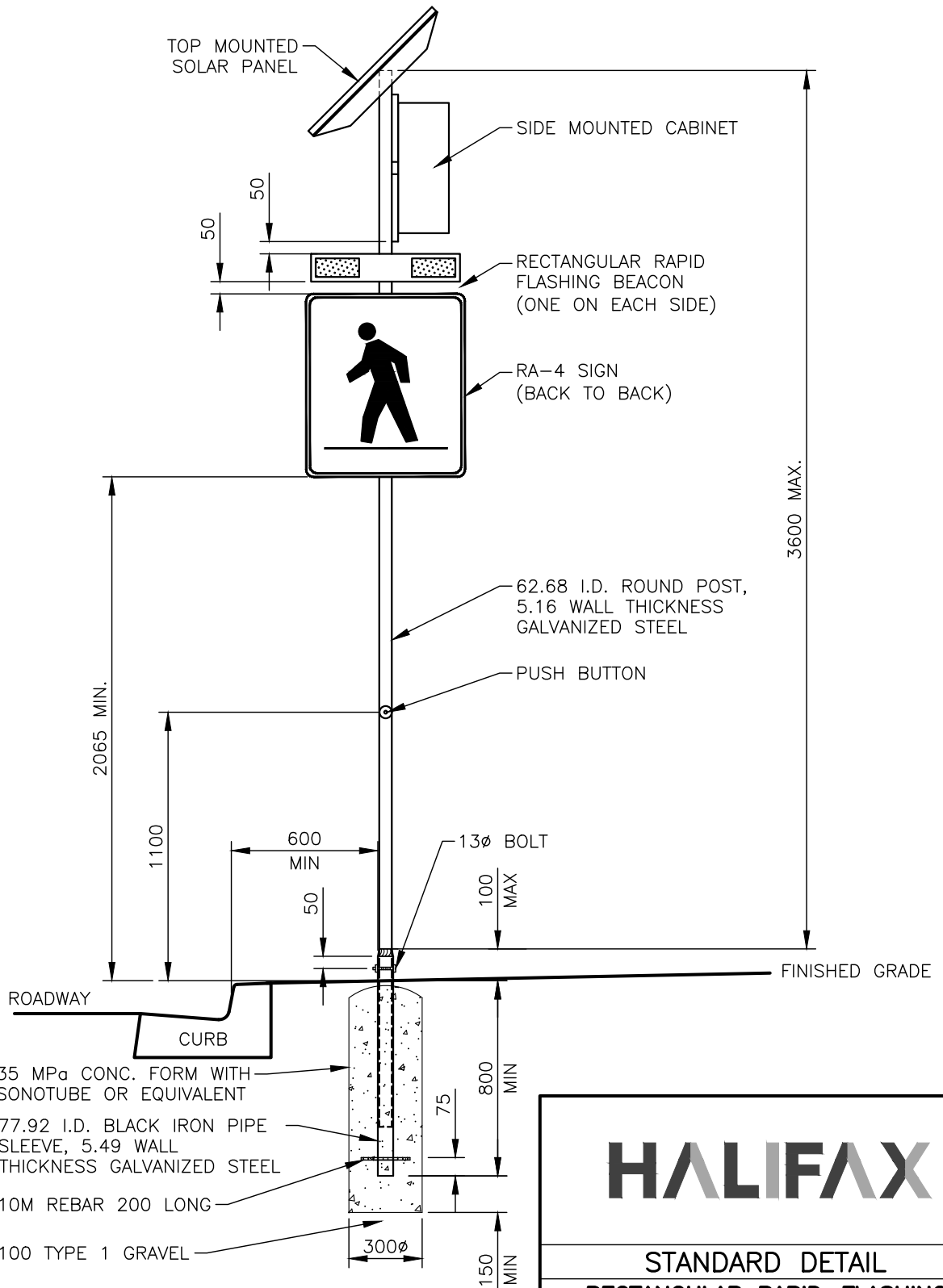


- Part 3**      **Execution**
- 3.1**          **NOT USED**
- .1      Not used.

---

End of Section 01 10 00

---



- 35 MPa CONC. FORM WITH SONOTUBE OR EQUIVALENT
- 77.92 I.D. BLACK IRON PIPE SLEEVE, 5.49 WALL THICKNESS GALVANIZED STEEL
- 10M REBAR 200 LONG
- 100 TYPE 1 GRAVEL

**NOTE:**

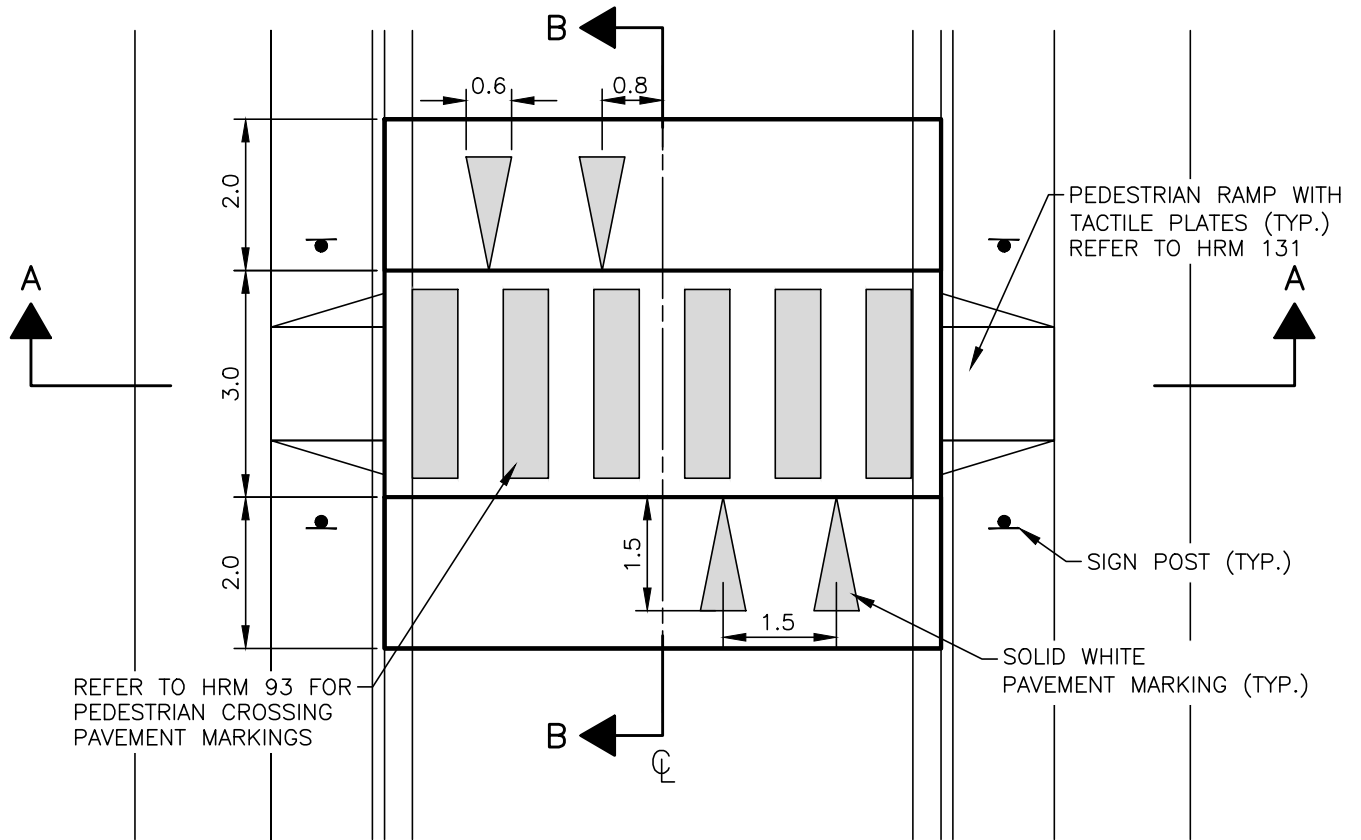
1. DIMENSIONS ARE IN MILLIMETRES.

# HALIFAX

**STANDARD DETAIL**

**RECTANGULAR RAPID-FLASHING BEACON SIGNAL CONFIGURATION (SOLAR PANEL)**

DATE:	2021	REFERENCE	APPROVED
SCALE:	1:25		FIG No.:
			<b>HRM 172</b>



REFER TO HRM 93 FOR PEDESTRIAN CROSSING PAVEMENT MARKINGS

PEDESTRIAN RAMP WITH TACTILE PLATES (TYP.) REFER TO HRM 131

SIGN POST (TYP.)

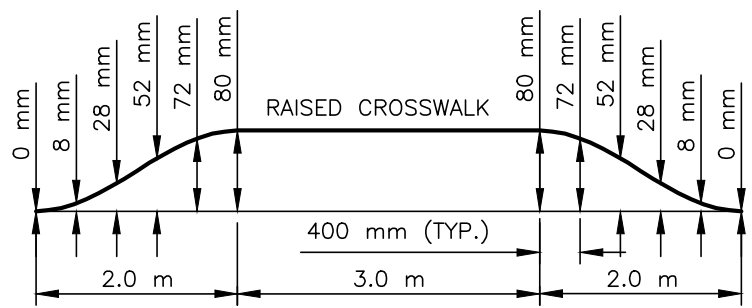
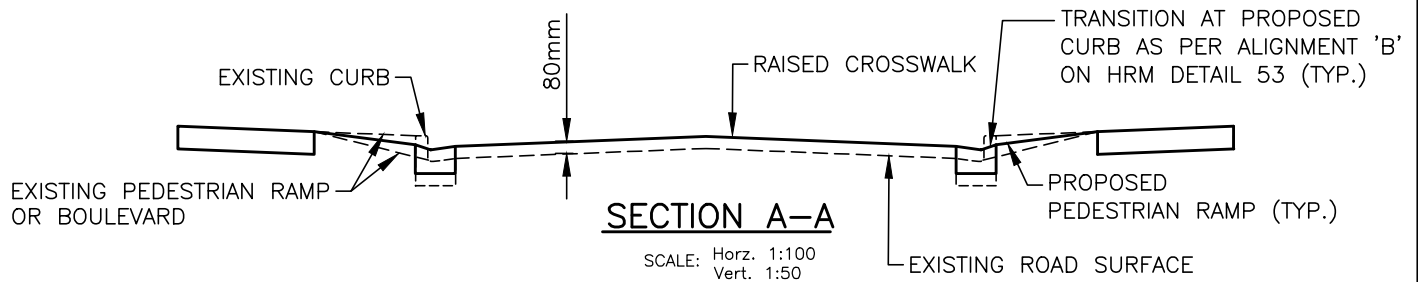
SOLID WHITE PAVEMENT MARKING (TYP.)

### RAISED CROSSWALK (MIDBLOCK)

SCALE: 1:100

**NOTES:**

1. THE EXISTING ASPHALT SURFACE TO BE MILLED TO A DEPTH OF 40 mm WHEN RETROFITTING.
2. CATCH BASINS ARE REQUIRED ON THE UPHILL SIDE OF THE RAISED CROSSWALK AS INDICATED ON PLANS.
3. POSITIVE DRAINAGE TO NEAREST CATCHBASIN TO BE CONFIRMED BY THE ENGINEER AND ADJUSTED AS REQUIRED.
4. RAISED CROSSWALKS TO BE CONSTRUCTED USING TYPE D-HF ASPHALT (UNLESS OTHERWISE APPROVED BY HRM).
5. ALL DIMENSIONS ARE IN METERS UNLESS INDICATED OTHERWISE.



### SECTION B-B

SCALE: 1:75

# HALIFAX

STANDARD DETAIL

## RAISED CROSSWALK (MIDBLOCK)

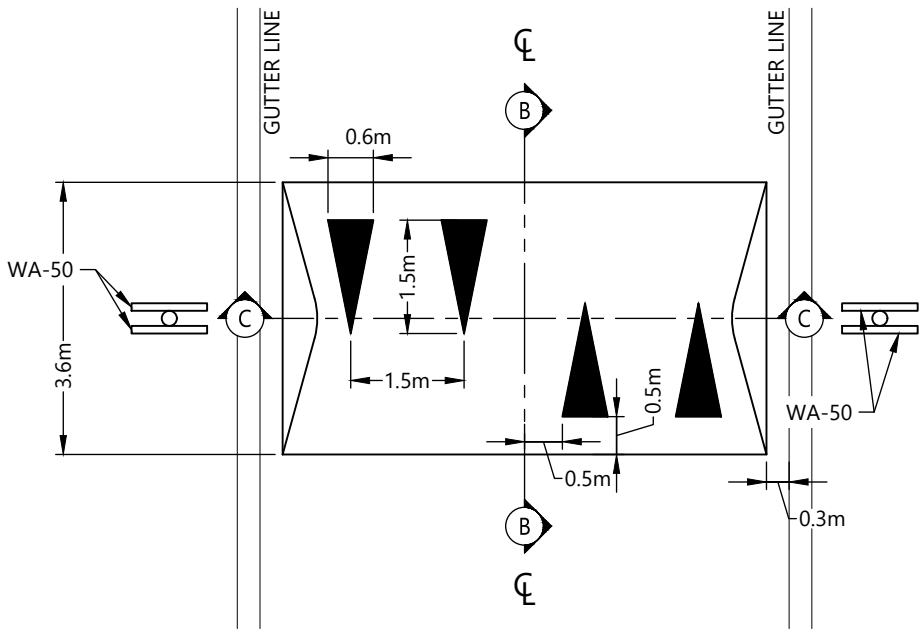
DATE: 2022	REFERENCE	APPROVED
SCALE: AS NOTED		FIG No.: HRM 196

**REFERENCE NOTES**

1. EXISTING ASPHALT (TYP.) TACK ALL CONTACT SURFACES PRIOR TO PAVING
2. KEY IN MILLING (EX. ASPHALT >50mm) MINIMUM DIMENSIONS OF 600mm BY 50mm DEPTH AT INTERFACE PERIMETER. SAW-CUT AND REMOVE EX. ASPHALT AND COMPACT BASE GRAVELS WHERE < 50mm EX. ASPHALT EXISTS
3. MAINTAIN MIN. 300mm TO EDGE OF PAVED SURFACE / TRAVELED WAY
4. 750mm TRANSVERSE TAPER AT CENTERLINE OF SPEED CUSHION, DECREASING TO ZERO LONGITUDINALLY IN BOTH DIRECTIONS
5. EXISTING CONCRETE CURB & GUTTER (TYP.) WHERE EXISTING

**GENERAL NOTES**

- A. SPEED CUSHION TO BE CONSTRUCTED TO WATTS SINUSOIDAL LONGITUDINAL PROFILE SHOWN IN DETAIL B-B
- B. C-HF ASPHALT FOR SPEED CUSHION CONSTRUCTION
- C. SIGNAGE AND PAVEMENT MARKING TO TAC MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA

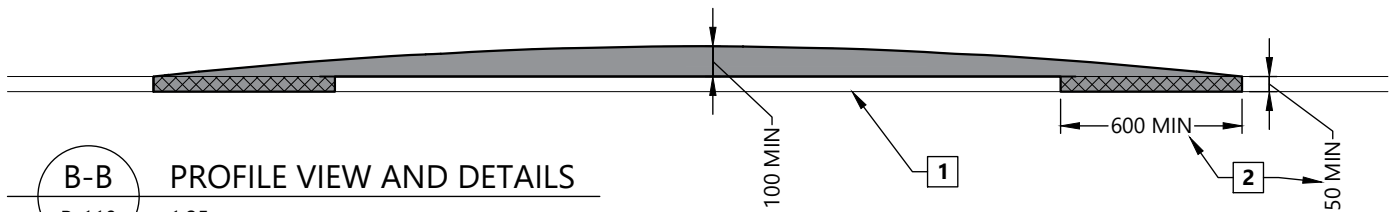


**A PLAN VIEW**  
R-110 1:100

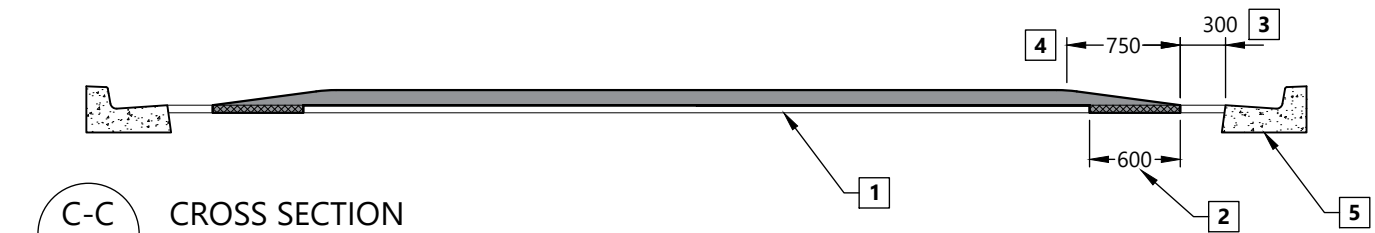


**WA-50**  
450 x 450

L (m)	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8
h (mm)	5	16	25	34	43	51	58	65	71	75	81	86	90	93	95	97	99	100	100



**B-B PROFILE VIEW AND DETAILS**  
R-110 1:25



**C-C CROSS SECTION**  
R-110 1:50



MUNICIPAL STANDARDS & SPECIFICATIONS

**SPEED CUSHION FOR TRAFFIC CALMING**

TITLE (ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN)

*Alex de Sousa*  
Alexander J. de Sousa, P.Eng.  
DIRECTOR, ENGINEERING & PUBLIC WORKS

APPROVAL

A. DESOUSA AS INDICATED

DRAWN BY SCALE

05/24/2023 R-110

REVISED DWG NO.

**\*\* REPLACES SECTION B-B IN HRM 196 & HRM 198**

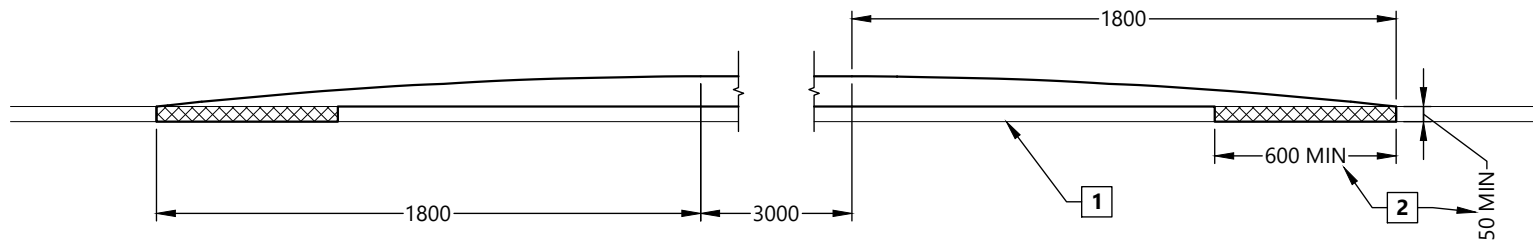
L (m)	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8
h (mm)	5	16	25	34	43	51	58	65	71	75	81	86	90	93	95	97	99	100	100

**REFERENCE NOTES**

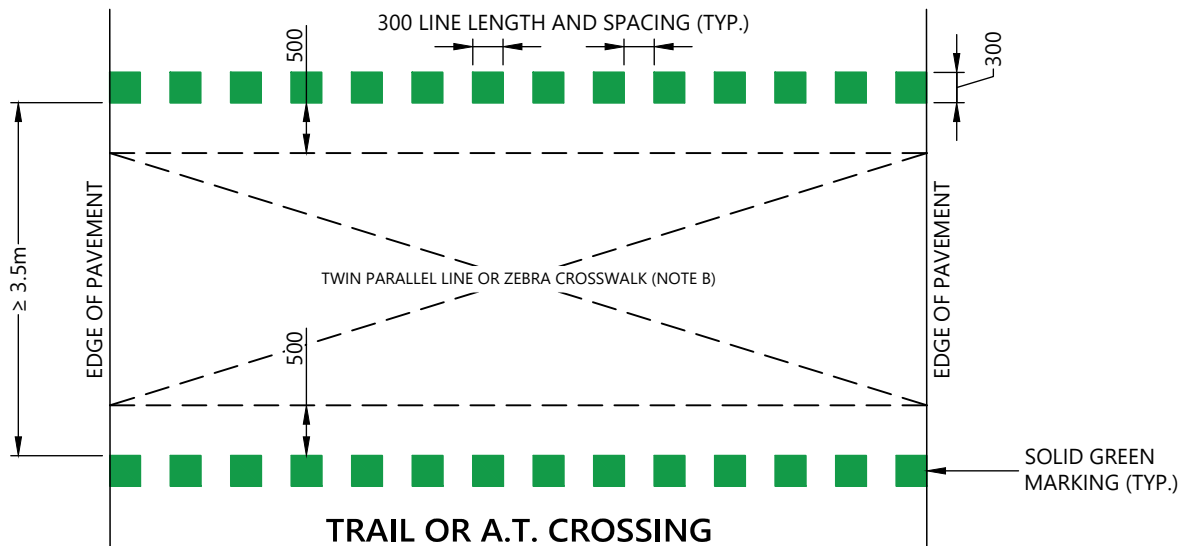
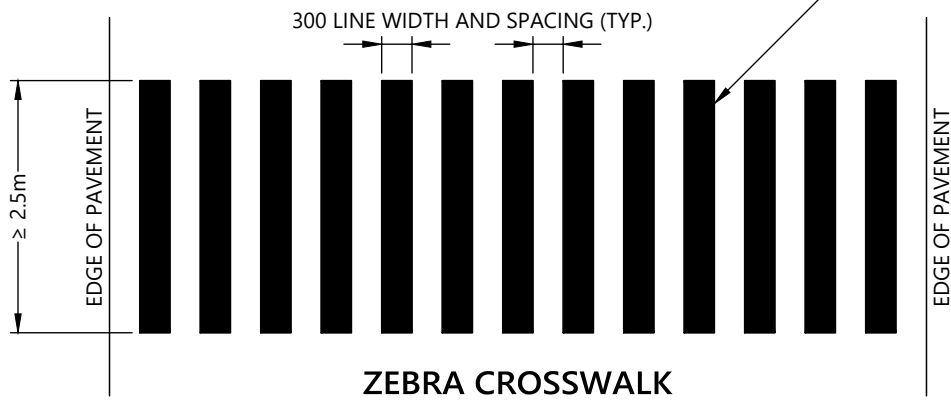
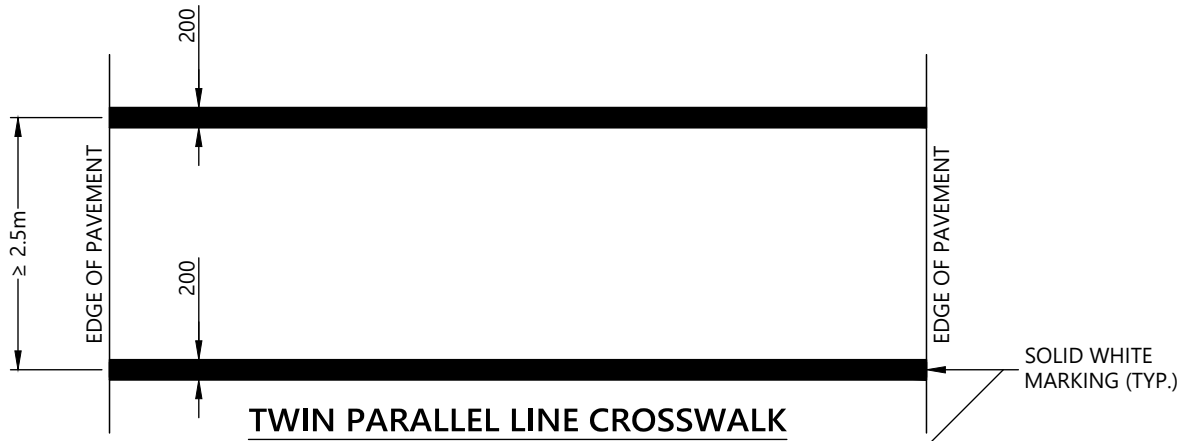
1. EXISTING ASPHALT (TYP.) TACK ALL CONTACT SURFACES PRIOR TO PAVING
2. KEY IN MILLING (EX. ASPHALT >50mm) MINIMUM DIMENSIONS OF 600mm BY 50mm DEPTH AT INTERFACE PERIMETER. SAW-CUT AND REMOVE EX. ASPHALT AND COMPACT BASE GRAVELS WHERE < 50mm EX. ASPHALT EXISTS

**GENERAL NOTES**

- A. RAISED CROSSWALK TO BE CONSTRUCTED TO WATTS SINUSOIDAL LONGITUDINAL PROFILE SHOWN BELOW
- B. C-HF ASPHALT FOR RAISED CROSSWALK CONSTRUCTION
- C. SIGNAGE AND PAVEMENT MARKING IN ACCORDANCE WITH TOW R-151 AND AS SPECIFIED
- D. ALL OTHER CONSTRUCTION DETAILS IN ACCORDANCE WITH HRM 196 & HRM 198 UNLESS OTHERWISE APPROVED BY TOWN ENGINEER



 <b>MUNICIPAL STANDARDS &amp; SPECIFICATIONS</b>	<b>RAISED CROSSWALK LONGITUDINAL PROFILE DETAIL</b>	 Alexander J. de Sousa, P.Eng. DIRECTOR, ENGINEERING & PUBLIC WORKS	A.DE SOUSA	1:25
	TITLE ( ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN )		APPROVAL	DRAWN BY 08/16/2023



**NOTES**

- A. TYPICAL USE OF TWIN PARALLEL LINE CROSSWALK MARKINGS RESERVED FOR CROSSINGS WITH REGULATORY CONTROL (I.E. STOP SIGN, TRAFFIC SIGNAL, ETC.) UNLESS OTHERWISE SPECIFIED BY TOWN ENGINEER.
- B. "ELEPHANT'S FEET" MARKING PATTERN TO BE USED IN ADDITION TO STANDARD CROSSWALK MARKINGS.



MUNICIPAL STANDARDS & SPECIFICATIONS

PAVEMENT MARKING DETAILS AT PEDESTRIAN CROSSINGS

*Alex de Sousa*  
 Alexander J. de Sousa, P.Eng.  
 DIRECTOR, ENGINEERING & PUBLIC WORKS

A.DESOUSA

NTS

DRAWN BY

SCALE

08/16/2023

R-151

TITLE (ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN)

APPROVAL

REVISED

DWG NO.