

ENGINEERING &
PUBLIC WORKS

Kentville

TOWN OF KENTVILLE CAPITAL 2024

CONDON AVENUE STORM UPGRADE PROJECT

CONTRACT #2024-11

KENTVILLE, NS

CLOSING: JUNE 27, 2024 AT 2:00PM

SET NO. 1
JUNE 2024



SECTION	TITLE	Pages
00 20 00	Overview	1
00 21 00	Information to Tenderers	4
00 41 43	Tender Form	5
00 43 00	Supplementary Tender Information	3
00 53 43	Form of Agreement	6
00 74 00	Supplementary Specifications	10

Appendix A: Tender Drawings

END OF SECTION



This document is a Supplementary Specification to *The Standard Specifications for Municipal Services* as published by the Joint Committee on Contract Documents in association with Nova Scotia Road Builders Association, Consulting Engineers of Nova Scotia and Landscape Nova Scotia.

The Town of Kentville has decided to use the Standard Specifications in an effort to regulate their specification practices, simplify the review and approval process, and standardize the specifications written by their consultants.

These project documents have been prepared for use with and require being read in conjunction with *The Standard Specifications for Municipal Services* as published by the Joint Committee on Contract Documents. Copies of The Standard Specification are available from the Joint Committee on Contract Documents, c/o Spectech Limited, 18 Laurier Street, Dartmouth, NS, B3A 2G7; telephone: (902) 233-9362; e-mail: nsmunicipalservices@gmail.com; or visit: www.standardspec.ca.

END OF SECTION

Condon Avenue Storm System Upgrade Project
Kentville, Nova Scotia

Owner: Town of Kentville, 354 Main Street, Kentville, NS, B4N 1K6
Engineer: DesignPoint Engineering & Surveying Ltd., 90 Western Parkway, Suite 500, Bedford, NS, B4B 2J3

1.1 Tender Submission

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

TENDER

Condon Avenue Storm System Upgrade Project
Tender # TOK2024-11

Closing up to 2:00 p.m., local time, on June 27, 2024, and delivered to:

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

- .2 Electronic (email) submissions will only be accepted if all the following criteria are met:

- .1 The entire bid document is presented and issued in Adobe PDF format.
.2 The PDF documents are emailed to the Town of Kentville (dbell@kentville.ca) by no later than 2:00 p.m. Atlantic Daylight Time, of the stated closing date.
.3 Emails must contain both of the following:
.1 A subject line which reads "Electronic Bid # TOK2024-11: Condon Avenue Storm System Upgrade Project" and
.2 The "Read Receipt" must be turned on, which will be acknowledged by staff upon opening of the email submission.
.3 Any questions can be directed to:

Dave Bell, P.Eng.
Town Engineer, Town of Kentville
dbell@kentville.ca

All PDF documents received will remain unopened until 2:15 p.m. on the stated closing date. At which time, they will be opened by municipal staff along with any hard-copy bids received by letter/courier mail.

1.2 Post Tender Submission

- .1 Submit post-tender submission documents no later than two (2) working days after tender closing. Failure to provide such documents may constitute grounds for forfeiture of tender security.

.2 Safety Certification

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

.3 Workers' Compensation

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

1.3 Tender Opening

- .1 Tenders will be opened at 2:15 p.m. local time on June 27, 2024, after Tender close at the offices of the Town of Kentville, 354 Main Street, Kentville. Opening will be public.
- .2 Tender amendments will be disclosed at public openings.

1.4 Accuracy of Referencing

- .1 Indexing and cross-referencing are for convenience only.

1.5 Conditions of Tendering

- .1 Take full cognizance of content of all Contract Documents in preparation of tender. Refer to Section 00 41 43 – Tender Form, Subsection 1.3.8 for a complete list of Contract Documents.

1.6 Tenderers to Investigate

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

1.7 Clarification and Addenda

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

1.8 Preparation of Tender

- .1 Legibly complete tender form provided with Project Documents. Tender all items and fill in all blanks. Have corrections initialed by person signing tender.

1.9 Taxes

- .1 Include all taxes in prices except Harmonized Sales Tax (HST) in tender unit prices.

1.10 Tender Security

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

1.11 Contract Security

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

1.12 Insurance

- .1 Refer to Section 00 72 45, General Conditions, subsection GC11.1 - INSURANCE, Section 00 74 00 – SUPPLEMENTARY SPECIFICATIONS, and CCDC 41 for insurance requirements.

1.13 Form of Agreement

- .1 Form of Agreement is attached for information purposes only until execution of the Contract.

1.14 Return of Tender Security

- .1 Tender security will be returned to:
 - .1 All except the three lowest acceptable tenderers within seven (7) days of tender opening.
 - .2 Two (2) remaining unsuccessful tenderers within fourteen (14) days of date of award.
 - .3 Successful tenderer following receipt by Owner of executed agreement, specified contract security, and insurance documents.

1.15 Amendment or Withdrawal of Tender

- .1 Tenders may be amended or withdrawn by post or email.
- .2 Amendment of individual Unit Prices is the only acceptable price amendment. Amendments shall not disclose either original or revised total price.
- .3 Head amendment or withdrawal as follows: "[Amendment/Withdrawal] of tender for Condon Avenue Storm System Upgrade Project, Tender #TOK2024-11". Sign as required for tender and submit to the address given for receipt of tenders. In order to be considered, submissions shall be received prior to time of tender closing.

1.16 Offer, Acceptance, Rejection

- .1 The Town reserves the right to reject all or any tenders, and to not necessarily accept the lowest tender. The Town may accept any tender or any portion of any tender that may be considered in the best interests of the Town. The Town also reserves the right to waive formality, informality, or technicality in any tender. This includes the right to accept a tender that is not strictly compliant with the instructions in the tender documents.

1.17

Scope of Work

- .1 The Work described in the Project Documents will be carried out in full or in part subject to available funding.

END OF SECTION



1.1 SALUTATION:

.1 To: Town of Kentville

354 Main Street
Kentville, NS, B4N 1K6

.2 For: Tender # TOK2024-11

Condon Avenue Storm System Upgrade Project
Kentville, 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 provide evidence of ability and experience within five (5) working days of request, including: experience in similar work, work currently under contract, senior supervisory staff available for the project, equipment available for use on the Work, and financial resources.

- .6 To execute in triplicate the 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.
 - .7 That failure to provide post-tender submission documents or 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.
 - .8 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.
 - .9 That Contract Documents include:
 - .1 Town of Kentville Subdivision Bylaw (2002).
 - .2 Standard Specification for Municipal Services Dated January 2024.
 - .3 Overview (00 20 00)
 - .4 Information to Tenderers (00 21 00)
 - .5 Tender Form (00 41 43)
 - .6 Supplementary Tender Information (00 43 00)
 - .7 Form of Agreement (00 53 43)
 - .8 Supplementary Specifications
 - .1 Section 00 74 00 – Supplementary Specifications
 - .9 Drawings
- Condon Avenue Storm System Upgrade Project, June 6, 2024, Revision 3, Issued for Tender**
- Sheet 1 / Cover Sheet
Sheet 2 / Plan & Profile, Proposed Stormwater Sewer: Sta. 0+000 To 0+160
Sheet 3 / Plan & Profile, Proposed Stormwater Sewer: Sta. 0+160 To 0+260
Sheet 4 / Construction Notes & Details
- .1 Nova Scotia Environmental Regulations and Approval No. 2024-3549798-00 (effective date June 4, 2024).
 - .2 All addenda as issued and confirmed in subsection 2.4 of this section.

1.4 SCHEDULE OF QUANTITIES AND UNIT PRICES

No		Unit Description	Unit	Quantity	Unit Rate	Estimated Cost
		Earthworks				
8		Exploratory Digs	each	4		
		Storm Sewer				
31		Pipe				
	.1	200mm PVC DR35	m	5		
	.2	900mm CSA A257.2 65D RCP	m	26		
	.3	1200mm CSA A257.2 65D RCP (MHST1 to MHST2)	m	80		
	.4	1200mm CSA A257.2 65D RCP (MHST2 to MHST4)	m	56		
	.5	1500mm CSA A257.2 65D RCP	m	97		
32		Manholes/Catchbasins				
	.1	1050mm Precast Tee Base Manhole	each	2		
	.2	2400mm Precast Manhole	each	1		
	.3	3000mm Precast Manhole	each	1		
	.4	1800mm (single) Catch Basin	each	1		
33		Sluice Box	each	1		
36		Connection to Existing				
	.1	At Condon Avenue/Park Street (MHST1)	each	1		
	.2	At CB4	each	1		
39		Precast Headwalls				
	.1	1500mm Precast Concrete Headwall (incl. Railing and grate)	each	1		
40		Rock lined Ditch Construction	m ²	100		
		Additional Items				
53		Asphalt Pavement Parking/Driveway/Paving (Provisional)	m ²	100		
		Additional Items				
71		Trench Excavation - Rock (Provisional)	m ³	50		
72		Trench Excavation - Unsuitable Material (Provisional)	m ³	200		
73		Replacement of Unsuitable Material (Provisional)	m ³	200		
		Additional Items				
90		Environmental Measures	L.S.	1		



TENDER FORM
CONDON AVENUE STORM SYSTEM UPGRADE PROJECT
TOK2024-11

SECTION 00 41 43
PAGE 4
June 2024

SUBTOTAL EARTHWORK	\$ _____
SUBTOTAL STORM SEWER	\$ _____
SUBTOTAL STREET CONSTRUCTION	\$ _____
SUBTOTAL ADDITIONAL ITEMS	\$ _____
SUBTOTAL ENVIRONMENTAL PROTECTION	\$ _____
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.	_____



GENERAL REQUIREMENTS

- .1 Refer to Supplementary Specifications and the Tender Drawings for general requirements to complete the work that shall be included in the Tenderer’s total price (i.e. erosion & sediment control measures, traffic control, locating existing services, connection to existing services, coordination with utility owners during construction, pavement markings, etc.).

1.5 COMPLETION TIME

- .1 Tenderer agrees to complete the Work during the 2024 season (Substantial Completion by November 29, 2024). Contractor may propose alternate schedule. The Town will consider an alternate schedule, however, is not obligated to approve an alternate schedule.

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



1. This Section is required to be completed and submitted at the time of tendering with all information requested completed in full. Failure to submit the information requested in this Section may be cause for the Town of Kentville to treat your Tender as non-compliant.

2. Submit with Tender the following:

- .1 Name and address of the chartered Canadian bank or reputable financial institutions to vouch for firm's financial status.
- .2 Name and address of the company who has agreed to underwrite the bonds for Performance and for Labour and Material Payment.
- .3 Name and address of the company who will underwrite the contract insurance required.
- .4 Particulars of recent contracts successfully completed or progressing towards completion.
- .5 A list of equipment to be used.
- .6 A list of project personnel.
- .7 A list of subcontractors.
- .8 A program of the work.

3. Submittals

- .1 Confirmation of Tenderer's financial status.

Name _____

Address _____

Contact Person _____ Telephone _____



.4 Program of the Works

Insert a brief description of the proposed method of operation and phasing to ensure completion in the period set forth in Section – 00 74 00 – Supplementary Specifications, Subsection 3 – Scheduling and Coordination.

END OF SECTION



This Agreement made on the __ day of ____ in the year__.

BY AND BETWEEN

Town of Kentville

354 Main Street, Kentville, NS, B4N 1K6

hereinafter called the "Owner"

and

hereinafter called the "Contractor"

The Owner and the Contractor agree as follows:

ARTICLE A1 - THE WORK

.1 The Contractor shall:

.1 Perform the Work required by the Contract Documents for

Condon Avenue Storm System Upgrade Project Tender # TOK2024-11

located at Kentville, Nova Scotia

for which the Agreement has been signed by the parties, and for which

DesignPoint Engineering & Surveying Ltd.

is acting as and is hereinafter called the "Engineer"

and

.2 do and fulfill everything indicated by this Agreement, and

.3 complete the work during the 2024 season, and

.4 attain Substantial Performance of the work as certified by the Engineer by the 29th day of November in the Year 2024.

ARTICLE A2 – AGREEMENTS AND AMENDMENTS

- .1 This Contract supersedes all prior negotiations, representations or agreements, either written or oral, relating in any manner to the work, including the bidding documents that are not expressly listed in Article A3 of the Agreement

ARTICLE A3 - CONTRACT DOCUMENTS

- .1 The following is an exact list of the Contract Documents referred to in Article A1.1 of this Agreement and as defined in subsection 6 of Section 00 71 00 DEFINITIONS. This list is subject to subsequent amendments in accordance with the provisions of the Contract Documents.

- .1 Town of Kentville Subdivision Bylaw (2002).
- .2 Standard Specification for Municipal Services Dated January 2024.
- .3 Overview (00 20 00)
- .4 Information to Tenderers (00 21 00)
- .5 Tender Form (00 41 43)
- .6 Supplementary Tender Information (00 43 00)
- .7 Form of Agreement (00 53 43)
- .8 Supplementary Specifications (00 74 00)
- .9 Drawings:

Condon Avenue Storm System Upgrade Project, June 6, 2024, Revision 3, Issued for Tender

- Sheet 1 / Cover Sheet
- Sheet 2 / Plan & Profile, Proposed Stormwater Sewer: Sta. 0+000 To 0+160
- Sheet 3 / Plan & Profile, Proposed Stormwater Sewer: Sta. 0+160 To 0+260
- Sheet 4 / Construction Notes & Details

- .10 Nova Scotia Environmental Regulations and Approval No. 2024-3549798-00 (effective date June 4, 2024).
- .11 Addenda
 - .1
 - .2
 - .3

ARTICLE A4 - CONTRACT PRICE

- .1 The estimated Contract Price is the sum of the products of the estimated quantities multiplied by the appropriate Unit Prices in the tender form excluding the amount of Harmonized Sales Tax.
- .2 The estimated Contract Price is \$ _____
- .3 All amounts shall be in Canadian funds.
- .4 The amounts shall be subject to adjustment as provided in the Contract Documents.

ARTICLE A5 - PAYMENT

- .1 The Owner shall pay the Contractor in Canadian funds for the performance of the Contract. The Contractor's invoice format is to be submitted for review and approval by the West Hants Regional Municipality prior to issuing the first invoice.
- .2 The Owner shall make monthly payments on account to the Contractor for the Work performed, as certified by the Engineer, subject to a 10% holdback.
- .3 The amount of the monthly payments shall be calculated as follows:
 - .1 The quantity for each pay item on which actual work has been performed shall be measured.
 - .2 For each Unit Price item this quantity shall be multiplied by the applicable Unit Price as provided in the Tender Form.
 - .3 For each lump sum item, multiply the percent complete by the value of the lump sum item.
 - .4 The total value of work completed for the payment period shall be calculated by adding the total of the products for all pay items from 3.2 and 3.3 of this Article.
 - .5 The amount of the monthly payment shall be determined by deducting the 10% holdback and the total of all previous payments from the total value of such completed work as determined under 3.4 of this Article.
 - .6 To the amount calculated above, the Harmonized Tax shall be added.
- .4 The last day of the payment period shall be the last Friday of the month.
- .5 Upon Substantial Performance of the Work as certified by the Engineer the Owner shall pay to the Contractor the holdback monies then due in accordance with the provisions of Section 00 72 45 - General Conditions, subsection GC5.8 – PAYMENT OF HOLDBACK UPON SUBSTANTIAL PERFORMANCE OF THE WORK.
- .6 Upon the issuance of the final certificate for payment as certified by the Engineer, the Owner shall pay to the Contractor the balance of monies then due in accordance with the provision of Section 00 72 45 - General Conditions, subsection GC5.10 – FINAL PAYMENT.
- .7 In the event of loss or damage occurring where payment becomes due under the property and boiler insurance policies, payment shall be made to the Contractor in accordance with the provisions of Section 00 72 45 - General Conditions, subsection GC11.1 - INSURANCE.
- .8 If the Owner fails to make payment to the Contractor as it becomes due under the terms of the Contract, interest shall be payable as follows:
 - .1 The annual interest rate applicable to the contract is 5% compounded monthly.
 - .2 Interest shall be calculated on the overdue balance from the due date.
- .9 The Owner shall pay invoices no later than 30 days from date of receipt.



ARTICLE A6 - RECEIPT OF AND ADDRESSES FOR NOTICES IN WRITING

- .1 Notices in writing shall be addressed to the recipient at the address set out below.
- .2 The delivery of a notice in writing shall be by hand, courier, prepaid first class mail, or electronic communication during the transmission of which no indication of failure of receipt is communicated to the sender.
- .3 A notice in writing delivered by one party in accordance with this Contract shall be deemed to have been received by the other party on the date of delivery if delivered by hand or courier, or if sent by mail it shall be deemed to have been received five (5) Working Days after the date on which it was mailed.
- .4 A notice in writing sent by a form of electronic communication shall be deemed to have been received on the date of its transmission provided that if such day is not a Working Day or if it is received after the end of normal business hours on the date of its transmission at the place of receipt, then it shall be deemed to have been received at the opening of business at the place of receipt on the first Working Day following the transmission thereof.



.5 An address for a party may be changed by notice in writing setting out the new address delivered to the other party in accordance with this Article.

.1 The Owner at the Town of Kentville, 354 Main Street
Kentville, NS, B4N 1K6

.2 The Contractor at _____

.3 The Engineer at DesignPoint Engineering & Surveying Ltd., 90 Western Parkway
Suite 500, Bedford, NS, B4B 2J3

ARTICLE A7 - QUANTITIES AND MEASUREMENT

- .1 The quantities shown in Section 00 41 43 Tender Form - Schedule of Quantities and Unit Prices are estimated.
- .2 Measurement for the actual quantities used to determine payments and Contract Price shall be in accordance with Section 01 22 00 - Measurement and Payment.

ARTICLE A8 - SUCCESSION

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

ARTICLE A9 - RIGHTS AND REMEDIES

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

ARTICLE A10 - TIME

- .1 Time shall be construed as being of the essence of the Contract.



In witness whereof the parties hereto have executed this Agreement and by the hands of their duly authorized representatives.

SIGNED AND DELIVERED
In the presence of:

OWNER

Name of Owner

Witness

Signature

Name and Title of Person Signing

Witness

Signature

Name and Title of Person Signing

CONTRACTOR

Name of Contractor

Witness

Signature

Name and Title of Person Signing

Witness

Signature

Name and Title of Person Signing

N.B. Where legal jurisdiction, local practice or Owner or Contractor requirements calls for (a) proof of authority to execute this document, attach such proof of authority in the form of a certified copy of a resolution naming the representative(s) authorized to sign the Agreement for and on behalf of the corporation or partnership; or (b) affixing of a corporate seal, this Agreement should be properly sealed.

END OF SECTION

INTENT

- .1 Construct the Work of this Contract in accordance with the Standard Specifications for Municipal Services as developed by the Nova Scotia Road Builders Association and the Consulting Engineers of Nova Scotia Joint Committee on Contract Documents, except as modified herein.
- .2 These Supplementary Specifications modify the specification sections to which they refer.
- .3 The Supplementary Specifications take precedence over the Standard Specification to which they refer.

SECTION 00 72 45: GENERAL CONDITIONS

GC5.4 BASIS OF PAYMENT FOR COST PLUS WORK

Delete clause 5.4.1 and replace with the following:

- .1 Payment for cost plus work shall be based on the cost of such work, as provided in paragraph 5.4.2, plus a fee calculated as a percentage of the cost of such work, for the Contractor's overhead and profit. The percentage amount shall be 10% for work done by the Contractor's own forces and 10% for work done by Subcontractors. The percentage shall not be applied to the cost of Construction Equipment when such cost is based on rates which already include the Contractor's overhead and profit. Equipment rates shall be as per Nova Scotia Roadbuilders rental rates.

GC 5.8 PAYMENT OF HOLDBACK UPON SUBSTANTIAL PERFORMANCE

Add Clause GC 5.8.6 as follows:

- .6 If, within sixty (60) days after the issue by the Engineer of the Certificate of Substantial Performance, the Contractor has not corrected all the deficiencies, the Owner shall retain sufficient money to cover the cost of completing the said deficiencies, as determined by the Engineer, in addition to holding monies retained in accordance with the Contract and subject to appropriate legislation of Nova Scotia.

GC 6.5 – DELAYS

Add the following subsections:

- .6 Notwithstanding the above subsections, time shall be construed as being of the essence of the Contract. The date of expiring of the time allowed in accordance with the Contract for substantial performance of the Work shall be termed the Date for Completion. Should the Contractor fail to substantially perform the Work by the Date for Completion, the period of time from the Date for Completion to the date of Substantial Performance of the Work as determined by the Engineer, shall be termed the Period of Delay.
- .7 In the event of there being a Period of Delay caused by the Contractor, the Contractor shall be liable for and shall pay to the Owner the cost of continuance of supervision during the Period of Delay, and all additional fees, disbursements and costs incurred by the Owner by reason of there being such a period of delay. The said sum or sums in view of the difficulty of ascertaining the losses which the Owner may suffer by reason of delay in the Performance of the said Works, is hereby agreed upon, fixed and determined by the parties hereto as liquidated damages that the Owner will suffer by reason of said delay and default and not as a penalty. The value of the liquidated damages shall be \$1000.00

per day for the duration of the Period of Delay. The Owner may deduct the amount of such liquated damaged from any monies payable to the Contractor under the contract.

Delete Subsection GC 6.7 – Quantity Variations and replace with the following:

GC 6.7 QUANTITY VARIATIONS

- .1 The Work may be completed in full or in part subject to funding which may lead to substantial quantity adjustments. Due to the variability of the scope of work, Unit Prices issued at the time of Tender close will be final and will not be subject to adjustment upon quantity variation.

GC 11.1 – INSURANCE

Make the following changes to Section GC11.1:

- GC11.1.1.1 Replace “\$2,000,000 per occurrence with a property damage deductible not exceeding \$2,500” with “\$5,000,000 per occurrence with a property damage deductible not exceeding \$25,000”

Add:

This policy shall include but not be limited to:

- a) Name the Town of Kentville as an additional insured
- b) Cross-liability and severability of interest
- c) Blanket Contractual
- d) Products and Completed Operations
- e) Premises and Operations Liability
- f) Personal Injury Liability
- g) Contingent Employers Liability
- h) Broad Form Property Damage
- i) Firefighting Expenses
- j) Elevator and Hoist Liability
- k) Attached Machinery – while loading & unloading

The following may apply:

- a. If applicable to the construction project described in the Agreement, coverage shall include shoring, blasting, excavation, underpinning, demolition, pile driving, caisson work and work below ground surface including tunneling and grading.
- b. If the work involves asbestos removal, the policy shall either provide coverage for this exposure or coverage shall be provided through a Professional Liability Policy.
- c. To achieve the desired limits, umbrella or excess liability insurance may be used.

- GC11.1.1.2 Replace “limits of not less than \$2,000,000 per occurrence” with “limits of not less than \$5,000,000 per occurrence”

- GC11.1.1.3 Replace all instances of “\$2,000,000” with “\$5,000,000”.

Add Clause GC 11.1.1.6 as follows:

- .6 The Contractor shall carry a Contractor’s Pollution Liability Policy, underwritten by an insurer licensed to conduct business in the Province of Nova Scotia for a limit of not less than \$5,000,000. Coverage shall include bodily injury, property damage, clean-up, and remediation costs.

Delete Subsection GC 11.2 – Contract Security and replace with the following:

GC 11.2 CONTRACT SECURITY

- . 1 The Contractor shall provide to the owner within fourteen (14) days of acceptance of the Tender a Performance Bond and a Labour and Materials Bond each in the amount of 50% of the Estimated Contract Price.

GC 12.3 WARRANTY

Add the following sections:

- .7 The Contract requires an operational combination of several components comprising the Work which are customarily guaranteed by their suppliers. Under the terms of this Contract, the Contractor shall provide a guarantee of the Works for a period of one (1) year following the date of Substantial Performance of Work. The terms of the guarantee shall be as follows:
 - 1 Where failure or incipient failure of the material is apparent, the Contractor shall actively commence repair or other remedy not more than twenty-four (24) hours after receiving due notice.
 - 2 If the Contractor on being notified does not for any reason commence repairs within twenty-four (24) hours, the Owner shall have the right to have repairs made by others as necessary to restore, complete, or continue service. The cost of such repairs by others is to be borne by the Contractor. The Owner shall at all times inform or attempt to inform the Contractor before hiring others to affect any repairs and it shall be at all times the Contractor's right to be informed as soon as possible of difficulties and proposed remedial action by others and to make or where practical to complete such repairs at any other time of the guarantee period in preference to others.
 - 3 The employment of some other person or persons for reasons set out shall in no way affect the Contractor's obligations or liability hereunder or relieve him of the performance and fulfilment of any or all of his covenants, undertakings, obligations or duties under the Contract.
 - 4 After the acceptance by the Owner and during the guarantee period, the burden of maintenance shall fall upon the Owner. In the event of damage, failure or incipient failure of any part or parts directly attributable to inadequate or improper maintenance, the Contractor shall be responsible for remedial action, but the cost of such repairs will be reimbursed by the Owner.
 - 5 If the Contractor arranges that the manufacturer of some component or some other party approved by the Owner provide the guarantee on a sub-contract basis, he may designate the direct implementer of the guarantee as his agent under the Contract in which case due notice to the agent will be taken as due notice to the Contractor. This will be a matter for Contractor's convenience only, and shall in no way affect the Contractor's obligations and liabilities hereunder or relieve him from the performance and fulfilment of any or all of his covenants, undertakings, or duties under this contract.

- 6 In emergency situations, the Owner reserves the right to make appropriate repairs at the Contractor's expense.

SECTION 01 10 00: GENERAL REQUIREMENTS

Delete Subsection 2 – SUMMARY OF WORK and replace with the following:

2. SUMMARY OF WORK

The work includes, but is not limited to, the following:

1. Installation of a storm sewer downstream from Condon Avenue, as shown in the project documents.
2. Lay out of proposed alignment and review with the Town staff prior to construction.
3. Installation and testing of municipal infrastructure as shown in the project documents. Contractor to use extreme caution when working near existing water mains, sewer mains, and service laterals.
4. Street reinstatement including but not limited to subgrade, gravels, asphalt, curb, sidewalks, and traffic markings.
5. Removal, disposal, and replacement of the existing road structure as required to complete the work.
6. Removal, disposal, and replacement of all sidewalks, curbs, and landscaping within the construction limits, as indicated on the project drawings and required to complete the work.
7. Locate all existing infrastructure prior to construction and provide one week for review by the Town.
8. Provision of environmental protection for the duration of the project, including one year following project substantial completion.
9. Adhere to the conditions contained in the "Approval for Construction – Storm Drainage Works – Outfall" (Approval No. 2024-3549798-00), effective date June 4, 2024 from NSECC.
10. Obtaining all necessary approvals and permits from the appropriate regulatory bodies as well as any associated costs.
11. Testing of services in accordance with Town Specifications and Standard Specifications for Municipal Services, dated January 2024.
12. Dewatering of any and all excavations, erosion and sediment control including silt fences, flow checks, ground covers, water treatment, and all other environmental controls required during the course of the Work.
13. All traffic control and detours as per the Town requirements and Nova Scotia Department of Public Works (NSDPW) Temporary Workplace Traffic Control Manual.
14. Shoring of utility poles, as needed.
15. Excavation of common, removal and off-site disposal of surplus material, and importing of fill.
16. Coordination with utilities for location of any existing infrastructure and alteration of this infrastructure. Contractor to notify Engineer of any discrepancies and to allow 1 week for review.
17. Coordinate construction with adjacent property owners. Maintain safe access to driveways and properties for the duration of the project. Provision of temporary access to all residents affected by the work, as required and directed by the Town.
18. Reinstatement of all disturbed areas to pre-construction condition or better.
19. All incidental items and costs associated with completing the work.

Add the following to Subsection 3 – SCHEDULING AND COORDINATION:

3. SCHEDULING AND COORDINATION

- .5 The Contractor is to schedule the work such that the works are completed during the 2024 season

(Substantial Completion by November 29, 2024). Contractor may propose alternate schedule. The Town will consider an alternate schedule, however, is not obligated to approve an alternate schedule.

- .6 If required, contractor is to be familiar with Spring Weight Restrictions and plan accordingly.

Delete subsection 8 – RECORD DRAWINGS and replace with the following:

8. RECORD DRAWINGS

- .1 The Contractor shall maintain project Record Drawings and accurately record significant deviations from Contract Drawings caused by site conditions and changes ordered by the Engineer.
- .2 Mark changes and deviations in red on one set of whiteprints.
- .3 Record the following significant deviations:
 - .1 Depths of various elements of works in relation to geodetic elevation (CGVD2013).
 - .2 Horizontal and vertical location of underground utilities and appurtenances referenced to permanent surface such as foundation corners, etc. to the satisfaction of the Engineer.
 - .3 Field changes of dimensions.
 - .4 Other significant deviations which are concealed in construction and cannot be identified by visual inspection.
- .4 At completion of the project and prior to final inspection, neatly transfer records to second set of whiteprints using fine, red marker. Neatly print lettering and number in size to match original. Line may be drawn free hand but shall be neat and accurate. Add at each Drawing Title Block Note: As- Built.
- .5 Submit this set of Record Drawings to the Town along with a digital copy of all survey points.
- .6 In the event that record drawings are not provided by the Contractor, the Value of the record drawings is agreed to be the cost incurred by the Owner to collect the data and produce the drawings and is agreed to be valued at \$5000.00 + HST; such costs will be deducted from the contract amount if the drawings are not properly provided by the contractor.

Delete subsection 10 – TEMPORARY SITE FACILITIES and replace with the following:

10. TEMPORARY SITE FACILITIES

- .1 Temporary Site Facilities are not required for this project.

Add the following to Subsection 12 – TRAFFIC CONTROL:

12. TRAFFIC CONTROL

- .6 Provide access to all properties during work.
- .7 Provide traffic plans as required in consultation with the Town and the Nova Scotia Department of Public Works.
- .8 Signs to be placed as directed by the Town indicating that the area is under construction and use is limited to local traffic only.
- .9 Provide at minimum one lane of traffic flow at all times, unless approved by the Town traffic authority.

Add the following subsections:

17. UTILITIES

- .1 Contractor is responsible for obtaining permits from all utilities such as a Safe Clearance Report from Nova Scotia Power for Work near utilities.

- .2 The existence, location, and elevation of underground utilities, utility poles, guy wires, and signs are not guaranteed, and notwithstanding any provision in the Contract Documents, the Contractor shall be responsible for determining the location and elevation of all sewer, water, or other such structures or utilities. The contractor shall coordinate and include in the contract price any required service supplied by any utility, company or provincial department.
- .3 Unless designated for removal under this Contract, sustain in place and protect from damage any and all piping, conduits, cables, and all other structures in the approximate locations of buried services or structures, carefully excavate by hand, or similar means to expose these buried services or structures. Any utilities which cross an excavation must be properly supported or shored to prevent settlement. Where trenching is to be done under existing utilities, such utilities shall be shored before excavation commences and shoring is to be left in place. Notify the owners of such utilities or services prior to excavation.
- .4 Repair immediately all piping conduits, cables, and all other structures damaged by the Contractor's operations. Provide a letter from the utility stating that any services damaged during construction have been repaired to the utility company's approval. Replace all signs as near as possible to their original location.
- .5 The work includes coordination with underground and overhead utility owners to allow excavation in close proximity to their utilities. The contractor shall allow for all incidental costs arising from excavations near existing utility poles, underground utilities, and overhead utilities. Coordination with utilities will also be required during the work as the overhead utilities and poles within the work site may require shoring during the course of construction. No claim of delay will be accepted based on coordination activities between the contractor and the utilities.

18. FLOATATION AND FLOODING

- .1 Prevent floatation and flooding during construction of the Work. Make good any damage to pipes or structures caused by floatation and flooding at no extra cost to the Contract.
- .2 De-water all excavations and remove accumulations of water prior to backfilling.
- .3 Dispose of water drained or pumped such that the Work and adjacent properties are not damaged.
- .4 Temporary caps must be placed on all pipe ends when not actively being worked on.

19. DAMAGE AND INJURY

- .1 Immediately inform the Engineer of any damage or injury to any persons, property, services, or materials.
- .2 Reinstate survey markers, monuments, and survey pins disturbed or covered during construction under the direction of a qualified provincial land surveyor. Include costs in Contract Price.
- .3 Any Nova Scotia Department of Public Works or Nova Scotia Power infrastructure that is moved or damaged, shall be reinstated to their specifications and standards.

Section 01 22 00: MEASUREMENT AND PAYMENT

GENERAL

Delete subsection 2 and 3 and replace with the following:

2. For each item include all of the following as required where individual quantities are not provided in the Tender Form: project sign, mobilization, demobilization, traffic control including preparation of traffic control plan, assistance to the Engineer, coordination with all utilities, locating existing infrastructure (including but not limited to service laterals, crossings, and connection points), coordination with home owners, NSPI or other utility charges when working under transmission lines on in the proximity of power or communication infrastructure, environmental protection, protection of existing trees, clearing and grubbing, common excavation, shoring, dewatering, protection and shoring of existing pipes and infrastructure, utility pole shoring, bedding, backfilling, compaction, removal and disposal of surplus material, importation and placement of material, joint restraints and thrust blocks, sleeving, insulation, removal and disposal of existing infrastructure (as required), connections to existing laterals, protective coatings, flushing, pressure testing, vacuum and mandrel testing, cleaning, video inspection prior to Substantial Performance of the Work and at the end of the Warranty Period, marker stakes, tracer wire and test stations, all electrical wiring, reinstatement, shop drawings, manhole and catchbasin frames and covers, rocklining, valve covers, grade adjustment rings, creation of record drawings, waterproofing membrane, all incidentals, and any other work and materials shown on the drawings.

EARTHWORK

Add new subsections as follows:

8. Exploratory Digs

Unit of Measurement: Lump Sum (LS)

This item includes: excavation to confirm the horizontal and vertical locations of the existing water and sewer infrastructure, coordination with the Owner, and reinstatement of all disturbed areas. Locations to be provided to the Town and Engineer for review. Allow two weeks for review.

STORM SEWER

Delete subsection 31 and replace with the following:

31. Pipe

Unit of Measurement: metre (m)

Method of Measurement: along centreline of pipe through manholes.

This item includes: supply and installation of pipe complete with all fittings, insulation, crossings of other services, cutting and repair to damaged pipes, sleeves, common excavation, removal and disposal of surplus material, import of material, bedding and pipe protection gravels, backfill, testing, flushing, video inspection, location of existing services, traffic control, use of trench box where needed, pipe and trench shoring, reinstatement, and any other associated work or materials shown on the drawings.

Delete subsection 32 and replace with the following:

32. Manholes/Catch Basin

Unit of Measurement: each (ea)

This item includes: supply and installation of manhole/catchbasin, frame, cover (manhole cover or catchbasin cover as noted on drawings), grout, adjustment to finished grade, common excavation, backfilling, bedding gravels, location of existing services, traffic control, reinstatement, and any other associated work or materials shown on the drawings.

Delete subsection 33 and replace with the following:

33. Sluice Box

Unit of Measurement: each (ea)

This item includes: supply and installation of sluice box, frame, cover (catchbasin cover as noted on drawings), grout, adjustment to finished grade, common excavation, backfilling, bedding gravels, location of existing services, traffic control, reinstatement, and any other associated work or materials shown on the drawings.

Delete subsection 36 and replace with the following:

36. Connections to Existing

Unit of Measurement: each (ea)

This item includes: locating existing line or structure and supply and installation of fittings as indicated. Approved end cap to be installed as noted on drawings.

Delete subsection 39 and replace with the following:

39. Precast Headwall

Unit of Measurement: each (ea)

This item includes: supply and installation of headwall including common excavation, backfilling, bedding and grate and handrail as indicated on drawings.

Add subsection 40:

40. Rock Lined Ditch Construction

Unit of Measurement: metre (m²)

Method of Measurement: plan measure of indicated area.

This item includes: common excavation, removal and disposal of surplus material, and rock lining as shown on drawings and as directed by Engineer in the field.

STREET CONSTRUCTION

Add subsection 53:

53. Asphalt Pavement Parking/Driveway/Paving (Provisional)

Unit of Measurement: square metre (m²)

Method of Measurement: plan measure of indicated area at specified thickness.

This item is for existing parking driveway areas not disturbed by construction. Prior to reinstatement the Town may direct the Contractor to replace existing paved and/or gravel areas with new gravel and asphalt under this pay item using Detail B/5, Sheet C-D5 for driveways and parking areas. For clarity, this item does not apply to reinstatement.

This item includes: common excavation, removal and disposal of surplus material (including asphalt and gravels), cleaning, supply, placement, and compaction of gravels and asphaltic concrete as directed. This includes tack coat, adjustments to the top of castings, line painting, traffic markings, adjustments, and saw cutting as necessary.

ADDITIONAL ITEMS

Delete subsection 71 and replace with the following:

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. Boulders larger than one-half cubic metre, any portion of which is within theoretical trench, will be classified as rock. Boulders removed from trench shall be measured along the three maximum perpendicular axes.

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. No payment will be made under this item unless authorized by the Engineer.

Delete subsection 72 and replace with the following:

72. Trench Excavation – Unsuitable Material (Provisional)

Unit of Measurement: cubic metre (m³)

Method of Measurement: average end area volume method using topographical survey of excavated unsuitable material and theoretical trench.

This item includes: excavation and disposal of unsuitable material outside theoretical trench. No payment will be made under this item unless authorized by the Engineer.

Delete subsection 73 and replace with the following:

73. Replacement of Unsuitable Material (Provisional)

Unit of Measurement: cubic metre (m³)

Method of Measurement: average end area volume method using topographical survey of excavated unsuitable material and theoretical trench.

This item includes: supply, placement and compaction of surge rock outside theoretical trench as directed by the Engineer. No payment will be made under this item unless authorized by the Engineer.

ENVIRONMENTAL PROTECTION

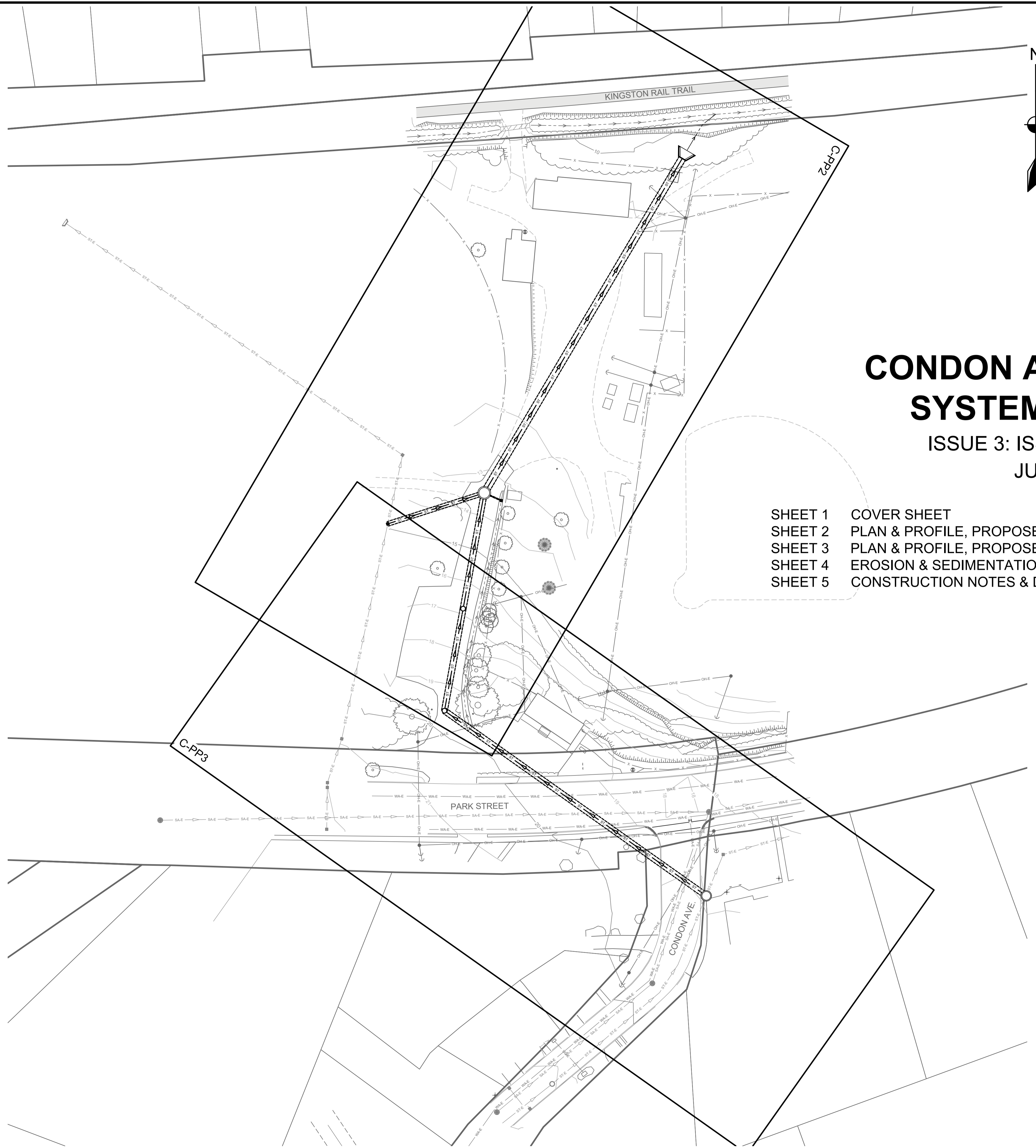
Add new subsection as follows:

90. Environmental Measures

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. Erosion and sedimentation control measures shall be in accordance with the Erosion and Sedimentation Control Handbook for Construction Sites by Nova Scotia Environment, most recent edition.

END OF SECTION

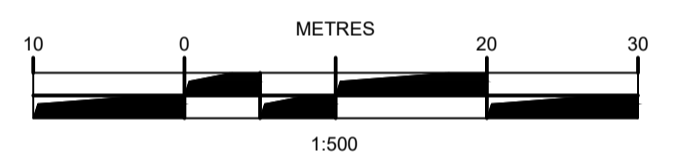


CONDON AVENUE STORM SYSTEM UPGRADES

ISSUE 3: ISSUED FOR TENDER
JUN. 06, 2024

- SHEET 1 COVER SHEET
- SHEET 2 PLAN & PROFILE, PROPOSED STORMWATER SEWER: STA. 0+000 TO 0+160
- SHEET 3 PLAN & PROFILE, PROPOSED STORMWATER SEWER: STA. 0+160 TO 0+260
- SHEET 4 EROSION & SEDIMENTATION CONTROL PLAN
- SHEET 5 CONSTRUCTION NOTES & DETAILS

ISSUED FOR REVIEW, NOT FOR CONSTRUCTION



ISSUE	DATE	DESCRIPTION	INT.
3	JUN. 06, 2024	ISSUED FOR TENDER	S.H.
2	MAY 09, 2024	ISSUED FOR NSECC APPROVAL	S.H.
1	MAY 06, 2024	ISSUED FOR MUNICIPAL REVIEW	S.H.

DESIGNPOINT
engineering • surveying • solutions

902.832.5597 designpoint.ca



CLIENT



PROJECT DESCRIPTION

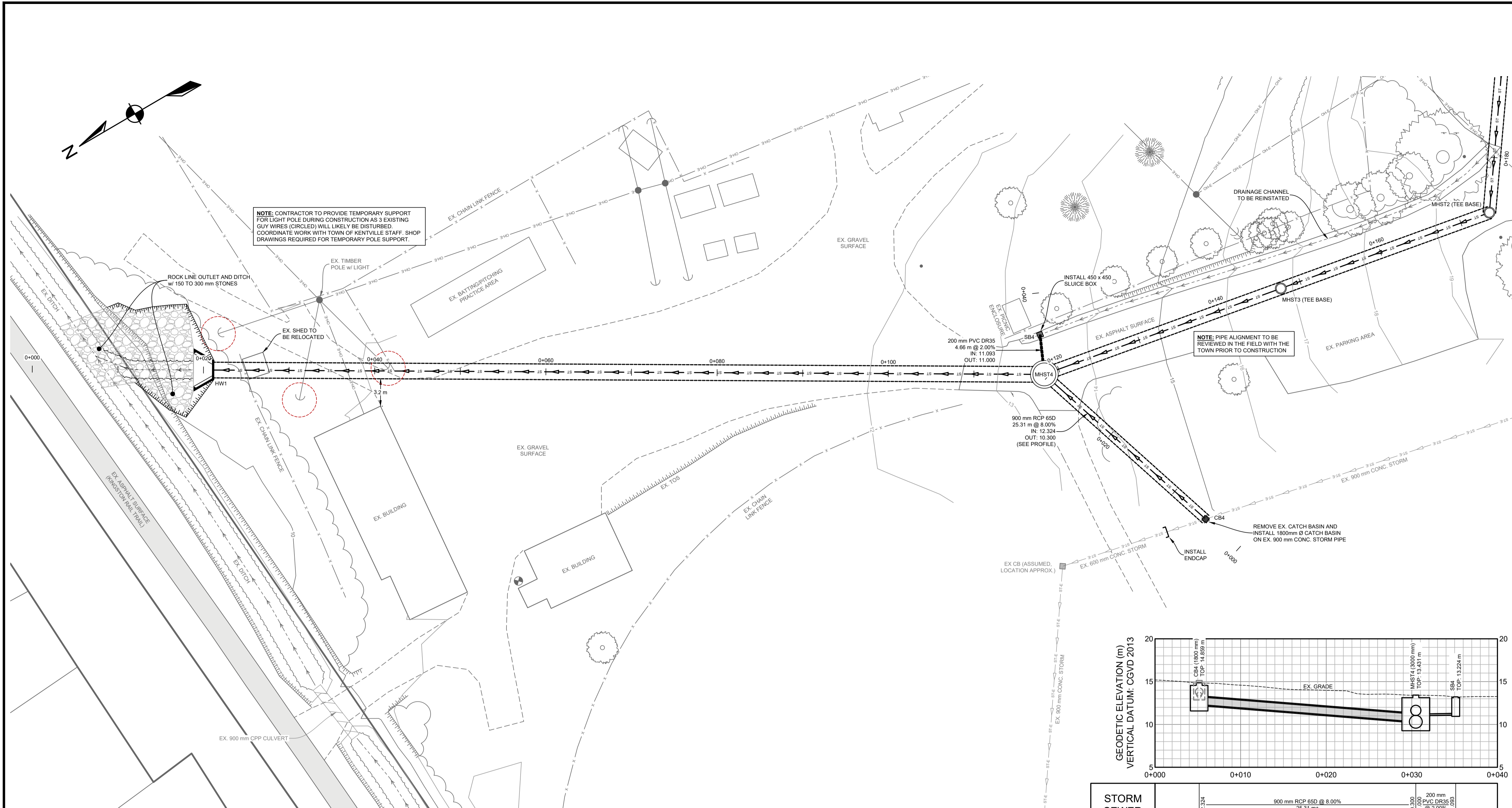
CONDON AVENUE STORM SYSTEM UPGRADES

KENTVILLE, NOVA SCOTIA

SHEET DESCRIPTION

COVER SHEET

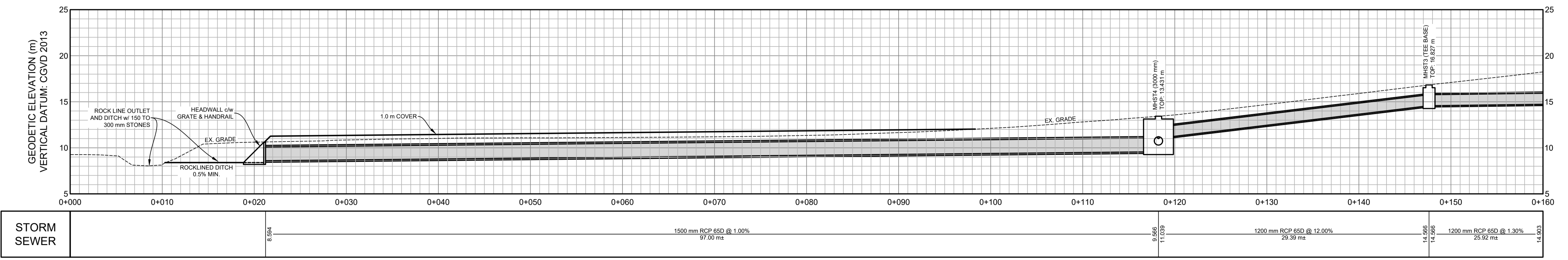
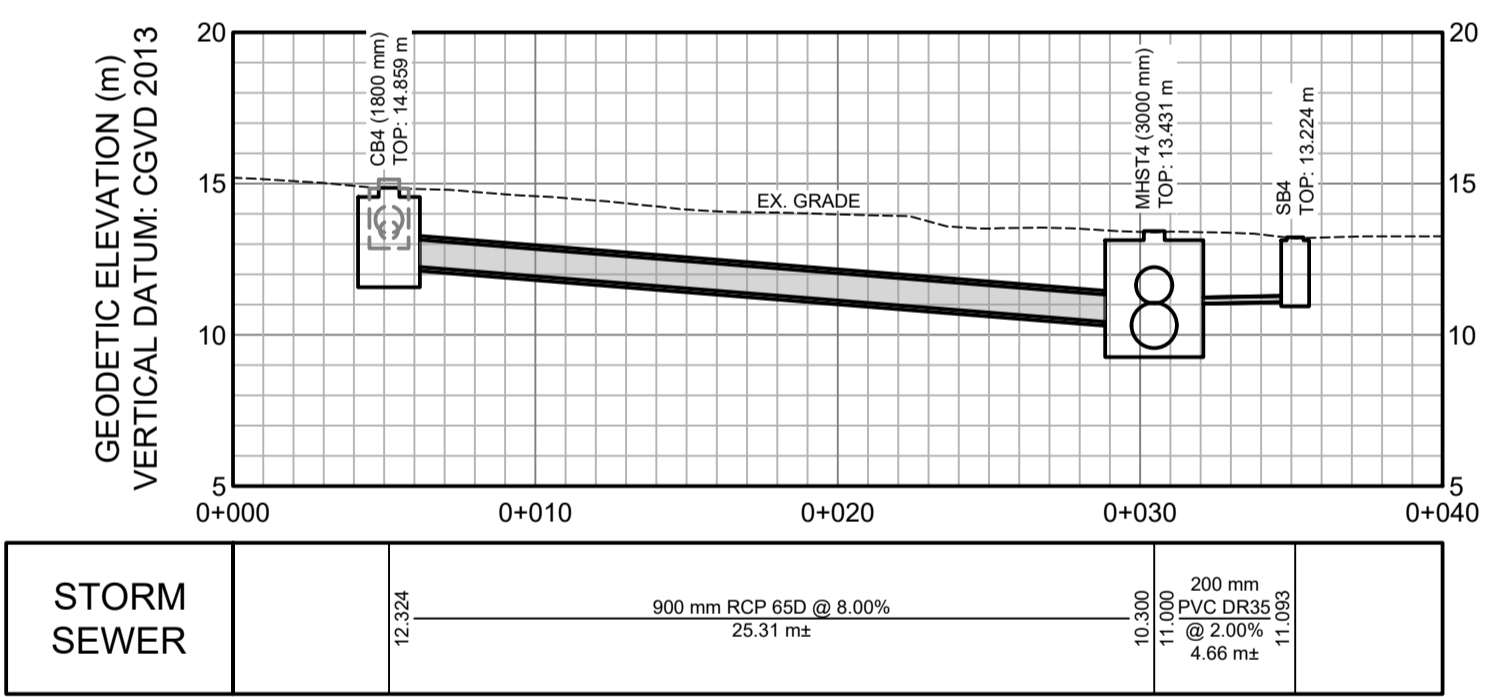
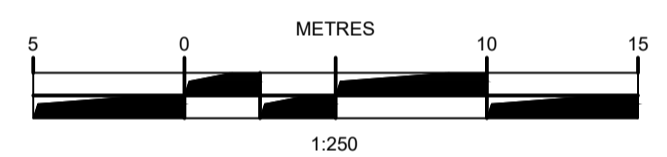
Drawn S. HANNAM	Engineer G. WOODFORD	Project No. 23-625	Drawing No. C-T1
Scale 1:500	Filename 23-625 T.dwg		1 of 5



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

	EXISTING	PROPOSED	EXISTING	PROPOSED
CURB CUT/RAMP	---	---	---	---
CURBSTOP	---	---	---	---
REDUCER	---	---	---	---
PRECAST HEADWALL	---	---	---	---
STREET SIGN	---	---	---	---
STREET TREE	---	---	---	---

ISSUED FOR REVIEW, NOT FOR CONSTRUCTION

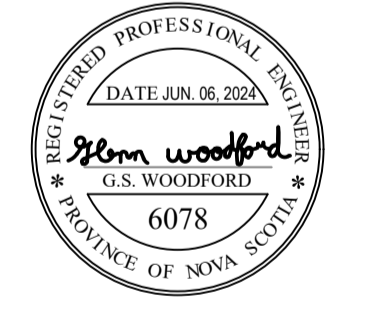


ISSUE	DATE	DESCRIPTION	INT.
3	JUN. 06, 2024	ISSUED FOR TENDER	S.H.
2	MAY 09, 2024	ISSUED FOR NSECC APPROVAL	S.H.
1	MAY 06, 2024	ISSUED FOR MUNICIPAL REVIEW	S.H.

CONSULTANT

DESIGNPOINT
engineering • surveying • solutions

902.832.5597 designpoint.ca



CLIENT



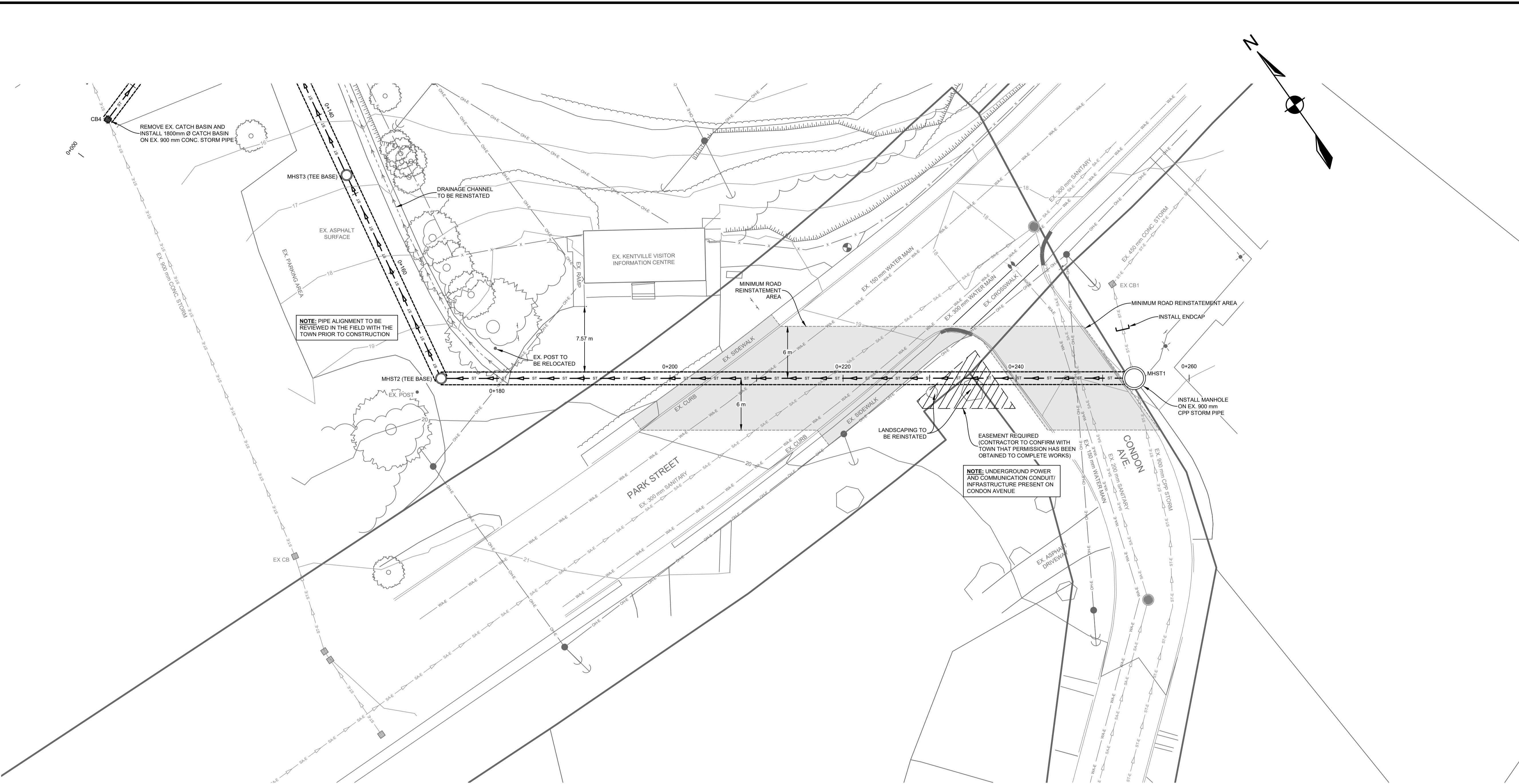
PROJECT DESCRIPTION

CONDON AVENUE STORM SYSTEM UPGRADES

KENTVILLE, NOVA SCOTIA
SHEET DESCRIPTION

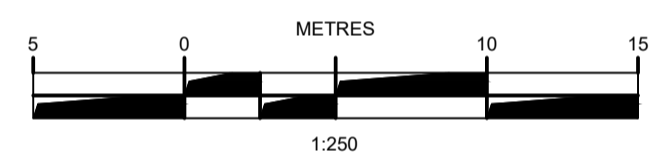
**PLAN & PROFILE
PROPOSED STORMWATER SEWER
STA. 0+000 TO 0+160**

Drawn S. HANNAM	Engineer G. WOODFORD	Project No. 23-625	Drawing No. C-PP2
Scale 1:250 H, 1:250 V	Filename 23-625-PP.dwg	2 of 5	



LEGEND		
EXISTING		PROPOSED
-----	VERTICAL PROFILE	-----
-----	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	---
---	AIR RELEASE VALVE	---
---	WATER VALVE	---
---	HYDRANT	---
---	CATCHBASIN	---
---	UTILITY POLE w/ GUY WIRE	---
---	GLB	---
---	URD	---

ISSUED FOR REVIEW, NOT FOR CONSTRUCTION

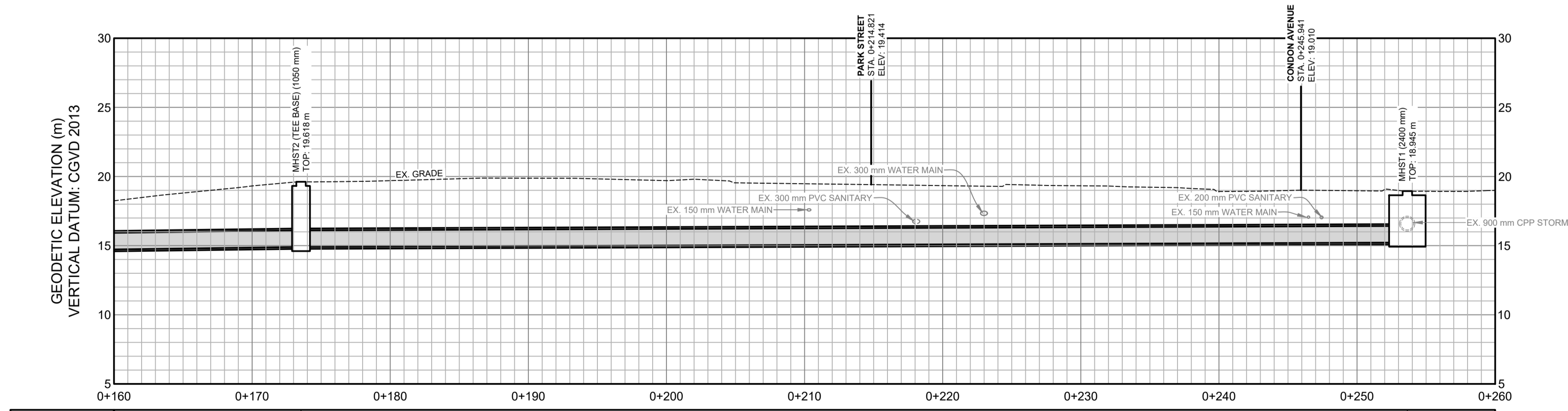


ISSUE	DATE	DESCRIPTION	INT.
3	JUN. 06, 2024	ISSUED FOR TENDER	S.H.
2	MAY 09, 2024	ISSUED FOR NSECC APPROVAL	S.H.
1	MAY 06, 2024	ISSUED FOR MUNICIPAL REVIEW	S.H.

DESIGNPOINT
engineering • surveying • solutions



Kentville



STORM SEWER	14.596	14.903	14.903	15.224
	1200 mm RCP 650 @ 1.30%		1200 mm RCP 650 @ 0.40%	
	25.92 m		90.10 m	

CONDON AVENUE STORM SYSTEM UPGRADES
KENTVILLE, NOVA SCOTIA
SHEET DESCRIPTION
PLAN & PROFILE
PROPOSED STORMWATER SEWER
STA. 0+160 TO 0+260

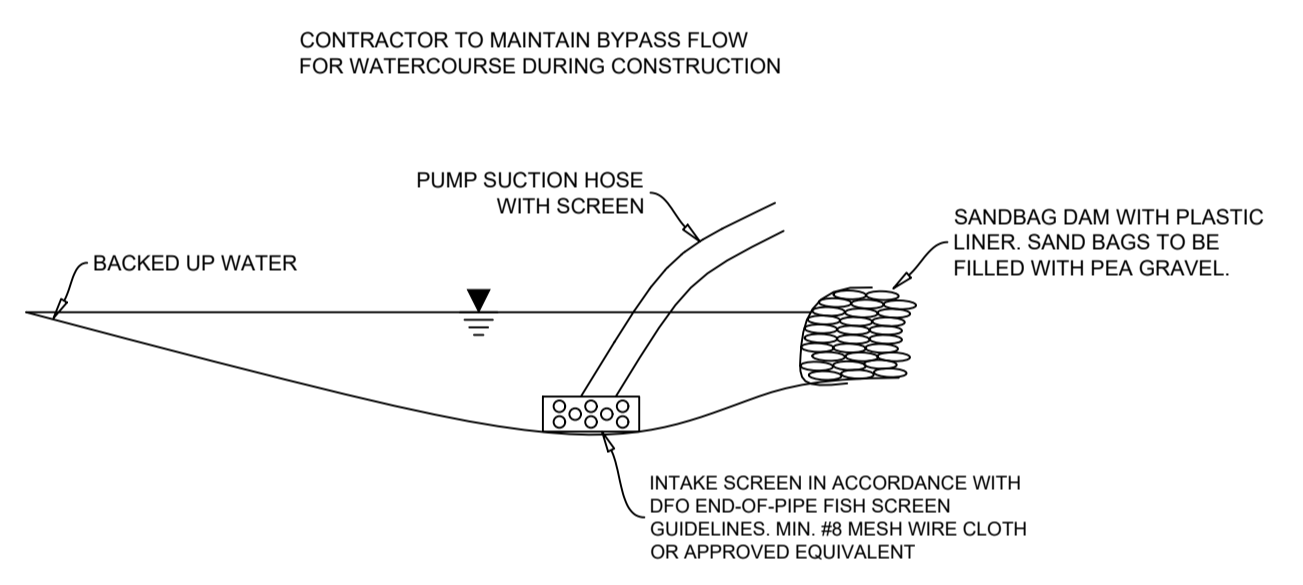
Drawn S. HANNAM	Engineer G. WOODFORD	Project No. 23-625	Drawing No. C-PP3
Scale 1:250 H, 1:250 V	Filename 23-625-PP.dwg		3 of 5



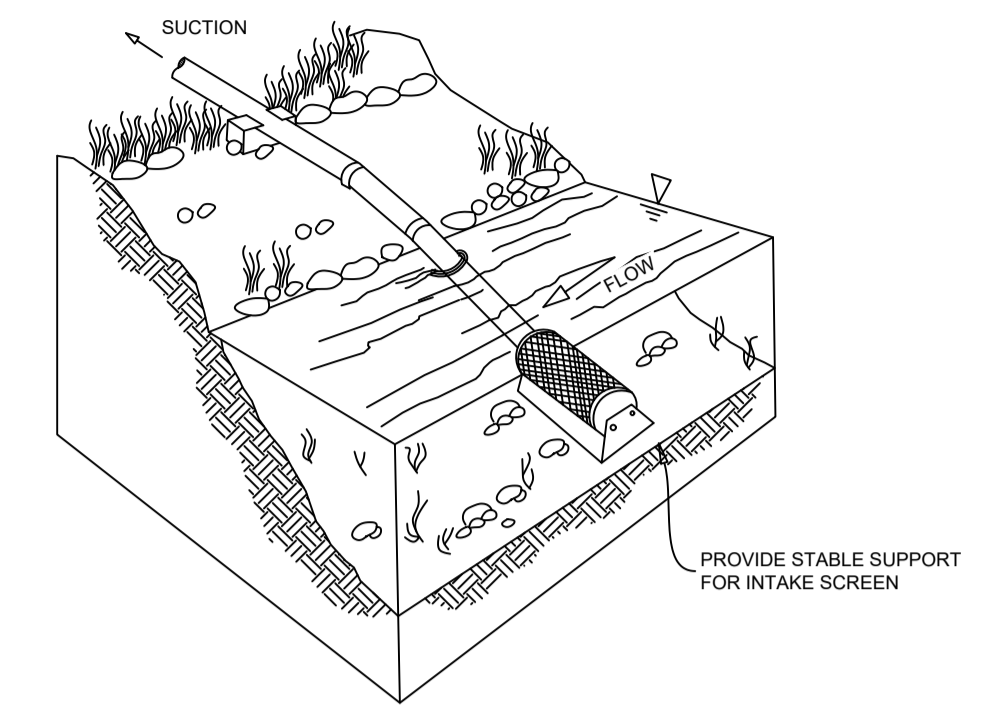
GENERAL EROSION AND SEDIMENT CONTROL NOTES

- EXPOSED SOIL TO BE MINIMIZED AT ALL TIMES DURING CONSTRUCTION TO LIMIT SEDIMENT LADEN RUNOFF. THIS IS TO BE ACCOMPLISHED BY COMPLETING ALL WORK IN A GIVEN AREA ONCE EXCAVATION HAS BEGUN BEFORE DISTURBING ADDITIONAL SOIL. CONTRACTOR IS TO BE AWARE OF CURRENT WEATHER FORECASTS AND PLAN SOIL STABILIZATION ACCORDINGLY.
- ALL WORKS TO BE IN ACCORDANCE WITH NOVA SCOTIA DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE REQUIREMENTS.
- CONTRACTOR TO ACQUIRE ALL PERMITS REQUIRED TO PERFORM WORK AND TO COMPLY WITH ALL PERMIT REQUIREMENTS DURING CONSTRUCTION.
- CONTRACTOR TO PROTECT NATURAL WATERCOURSES FROM SILT LADEN RUNOFF FROM CONSTRUCTION SITE. CONSTRUCTION PROCEDURES CAN BE FOUND IN THE CURRENT EDITION OF "EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES" BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE.
- CONTRACTOR TO ENSURE THAT ALL EXPOSED AREAS ARE STABILIZED PRIOR TO RAINFALL EVENTS BY CHECKING ENVIRONMENT CANADA FORECASTS (https://weather.gc.ca/canada_e.html).
- CONTRACTOR TO PERFORM WEEKLY INSPECTIONS OF SEDIMENT CONTROL MEASURES AND MAKE REPAIRS AS NEEDED. ADDITIONAL INSPECTION AND REPAIR TO BE CARRIED OUT BEFORE AND AFTER ANY RAINFALL EXCEEDING 10mm. A LOG OF EACH INSPECTION AND REPAIR IS TO BE KEPT ALONG WITH A WEEKLY REPORT OF EXPOSED AREAS.
- TRIBUTARY STORM RUNOFF FROM SITE TO BE DIRECTED INTO SEDIMENT CONTROL DEVICES DURING CONSTRUCTION.
- CONTRACTOR TO CONSTRUCT AND MAINTAIN DIVERSION DITCHES THROUGH AND AROUND THE SITE TO MINIMIZE CONTAMINATION OF CLEAN WATER.
- CONTRACTOR TO HAVE ADDITIONAL SEDIMENT CONTROL MEASURES ON SITE INCLUDING SILT FENCE, BALED HAY, AND LOOSE HAYMULCH TO MAINTAIN OR INSTALL CONTROL MEASURES AS REQUIRED.
- EXPOSED SURFACES TO BE COVERED WITH HAY, MULCH, OR WOOD CHIPS TO LIMIT SEDIMENT RUNOFF.
- CONTRACTOR MAY SUBSTITUTE WOOD CHIP BERM FOR SILT FENCE IN ROCKY AREAS WHERE SILT FENCE CANNOT BE INSTALLED.
- TOPSOIL AND HYDROSEED TO BE PLACED ON ALL AREAS NOT FINISHED WITH ASPHALT, CONCRETE, GRAVEL, OR SOD.
- ACCESS ROADS TO SITE ARE TO BE MAINTAINED WITH CLEAN GRAVEL APPLIED PERIODICALLY TO COVER MUDDY AREAS.
- CLEANING OF ADJACENT STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
- VEHICLE ACCESS TO CONSTRUCTION SITE TO BE RESTRICTED.
- STABILIZE ON-SITE STOCKPILES USING APPROPRIATE MEASURES (SILT FENCE, HAY, TARPS, ETC.).
- ALL SEDIMENT CONTROL MEASURES TO BE OPERATIONAL OVER ENTIRE CONSTRUCTION PERIOD.
- SEDIMENTATION AND EROSION CONTROL MEASURES ARE SUBJECT TO CHANGE. ADDITIONAL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION.

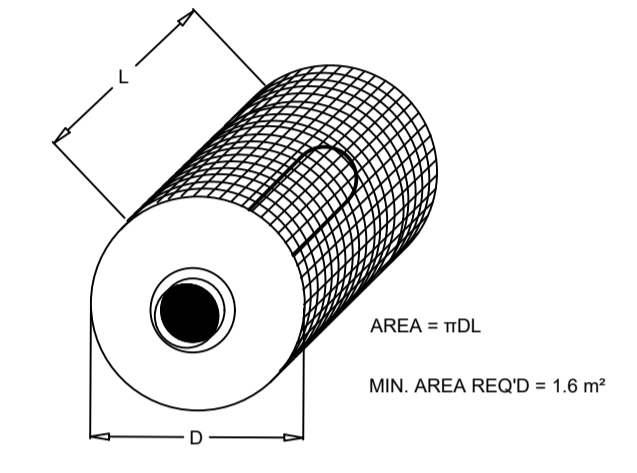
PUMP INTAKE DETAIL B 4



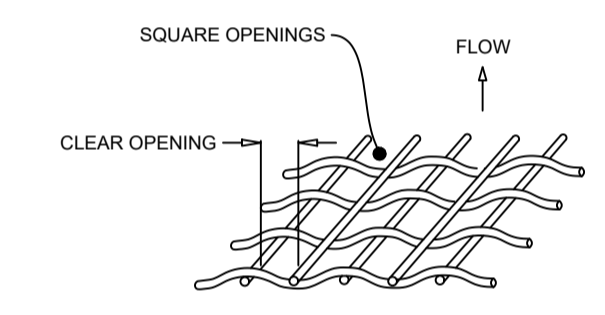
TYPICAL INTAKE SCREEN INSTALLATION A 4



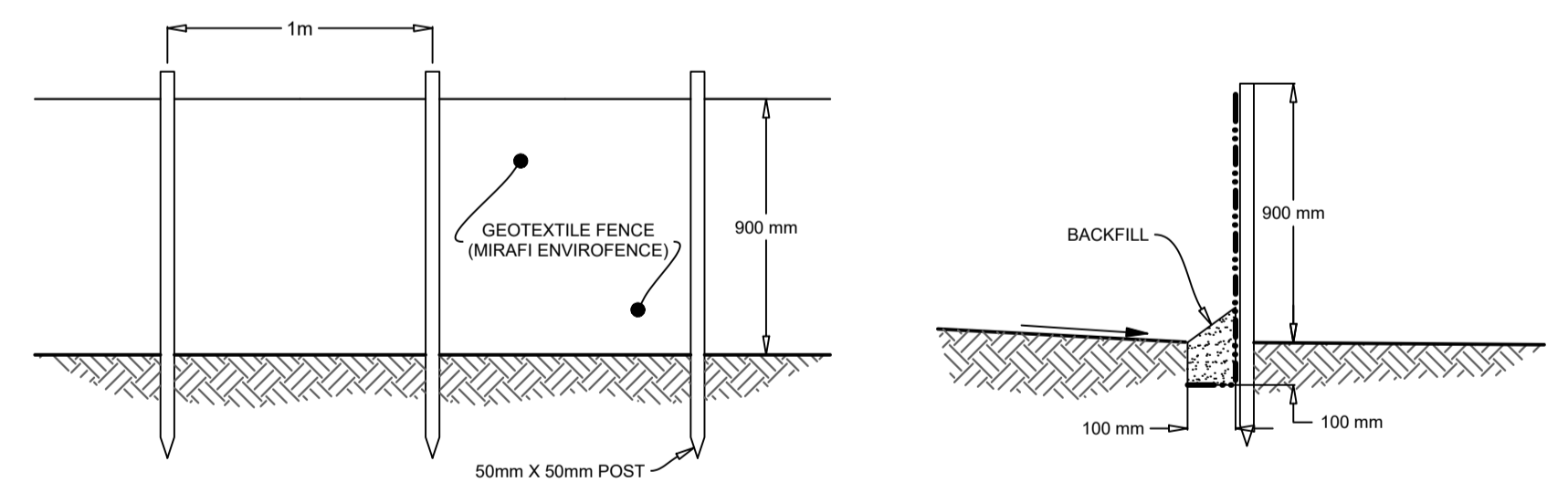
TYPICAL CYLINDRICAL SCREEN N.T.S.



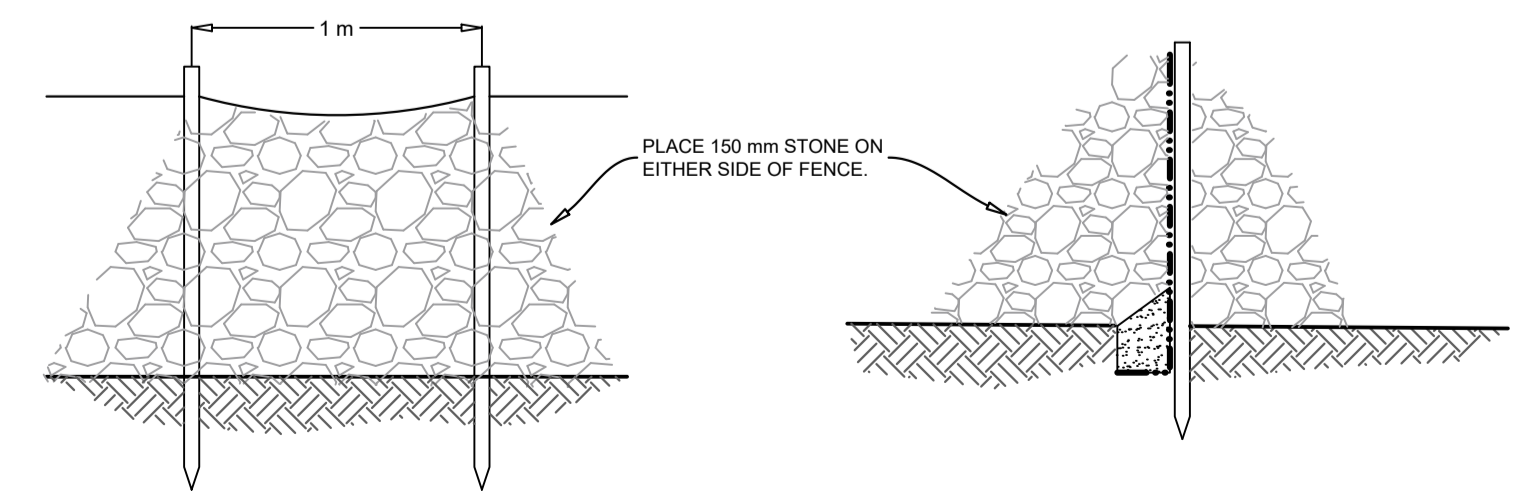
TYPICAL WOVEN WIRE MESH PROFILE N.T.S.



SILT FENCE DETAIL C 4

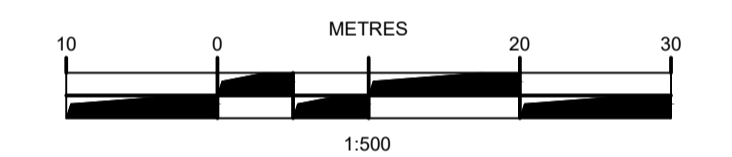


SILT FENCE OVERFLOW DETAIL D 4



LEGEND		
EXISTING		PROPOSED
-10	MAJOR CONTOUR	-10
-10	MINOR CONTOUR	-10
---	EASEMENT	---
---	RIGHT OF WAY	---
---	LOT LINE	---
---	SILT FENCE	---
---	DIVERSION DITCH	---
---	RUMBLE STRIP	---

ISSUED FOR REVIEW, NOT FOR CONSTRUCTION



ISSUE	DATE	DESCRIPTION	INT.
3	JUN. 06, 2024	ISSUED FOR TENDER	S.H.
2	MAY 09, 2024	ISSUED FOR NSECC APPROVAL	S.H.
1	MAY 06, 2024	ISSUED FOR MUNICIPAL REVIEW	S.H.

CONSULTANT

DESIGNPOINT
engineering • surveying • solutions

902.832.5597 designpoint.ca



CLIENT

Kentville

PROJECT DESCRIPTION

CONDON AVENUE STORM SYSTEM UPGRADES

KENTVILLE, NOVA SCOTIA

SHEET DESCRIPTION

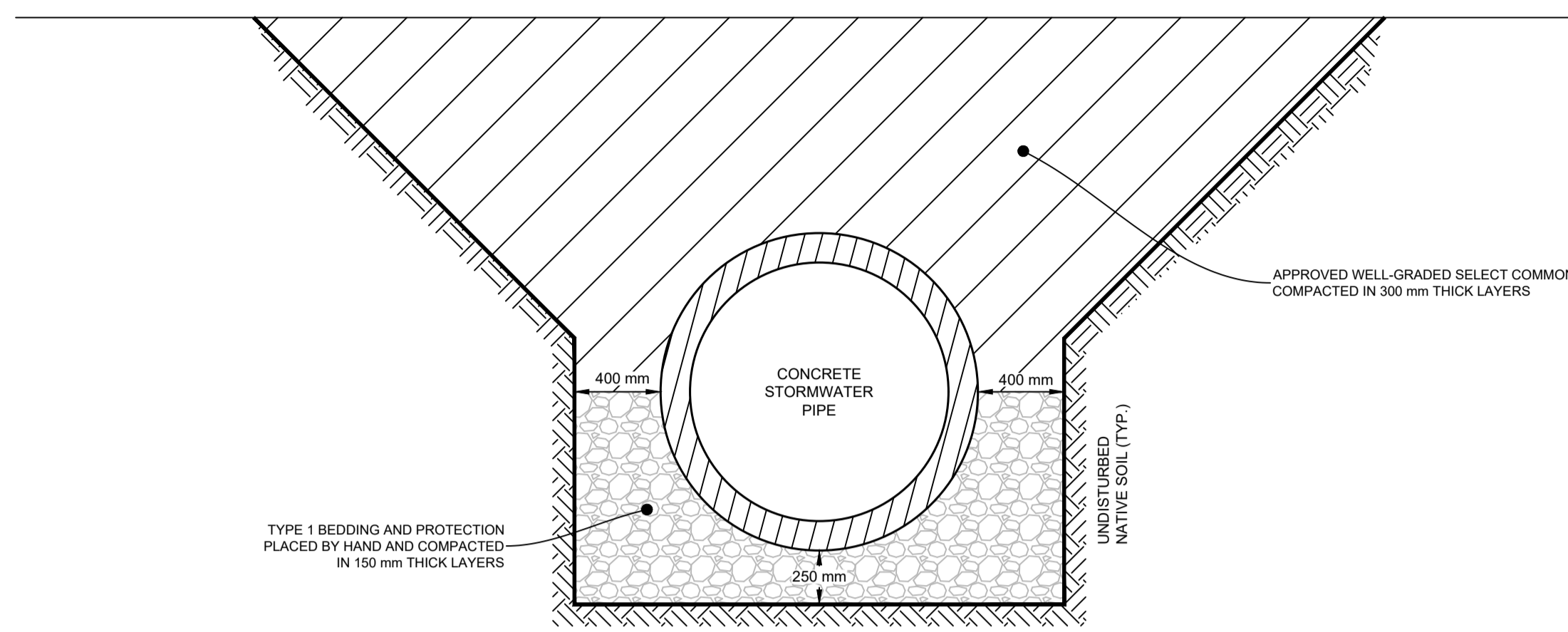
EROSION & SEDIMENTATION CONTROL PLAN

Drawn S. HANNAM	Engineer G. WOODFORD	Project No. 23-625	Drawing No. C-ESC4
Scale 1:500	Filename 23-625 ESCP.dwg		4 of 5

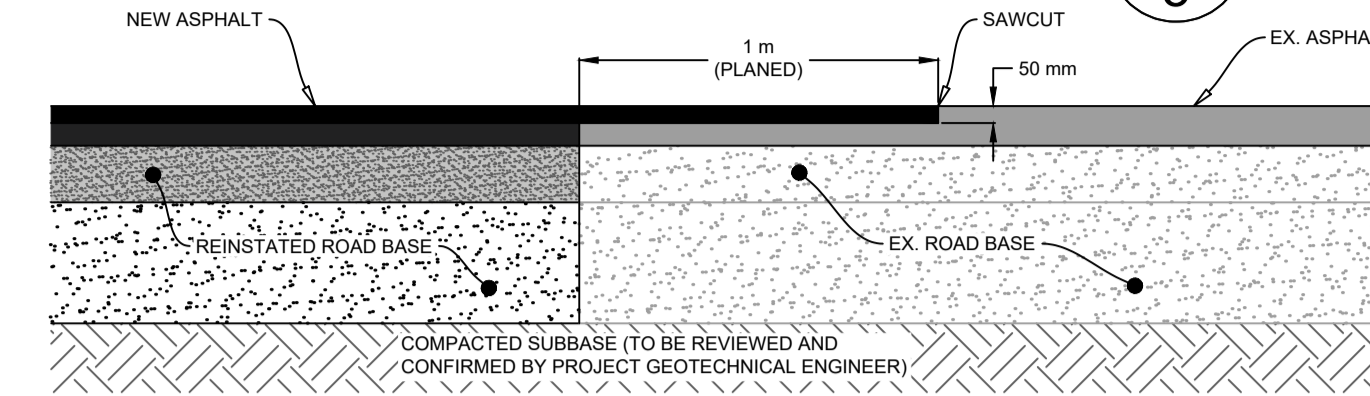
GENERAL CONSTRUCTION NOTES

- 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 THE TOWN OF KENTVILLE SUBDIVISION BYLAW (CURRENT EDITION).
- 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 AND CLIMATE CHANGE.
- CONTRACTOR TO NOTIFY DESIGNPOINT AND THE TOWN OF KENTVILLE REGARDING CONSTRUCTION SCHEDULING 2 WEEKS PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF NATURAL WATERCOURSES FROM DAMAGE DUE TO SILT LAIDEN 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 AND CLIMATE CHANGE.
- ALL DISTURBED AREAS NOT STABILIZED BY GRAVEL, ASPHALT, CONCRETE, OR SOD ARE TO BE STABILIZED WITH 100mm TOPSOIL AND HYDROSEEDED. HYDROSEEDED AREAS TO BE COVERED WITH HAY MULCH (MIN. 2000 kg/ha). HYDROSEEDED 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 TOPOGRAPHIC SURVEY AND OLD TOWN OF KENTVILLE DESIGN DRAWINGS. 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 NOVA SCOTIA POWER, BELL ALIANT, EASTLINK, EASTWARD ENERGY, ETC. CONTRACTOR TO VISIT clickbiter.org/ovis TO REQUEST LOCATES 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 LANDOWNER(S) 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. TOPOGRAPHIC SURVEY COMPLETED BY DESIGNPOINT ON APRIL 23, 2024. CONTRACTOR TO CONTACT DESIGNPOINT 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 (E.G. THE TOWN OF KENTVILLE, NOVA SCOTIA DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE) 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 50mm 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 CLOSURES 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 THE TOWN OF KENTVILLE SPECIFICATIONS, INCLUDING MANHOLE VACUUM TEST, PRESSURE TEST TO BE COMPLETED FOR ENTIRE PIPE LENGTH. TEMPORARY END CAPS TO BE INSTALLED AS REQUIRED TO FACILITATE TESTING.
- ALL TESTING OF WATER MAINS TO BE IN ACCORDANCE WITH THE TOWN OF KENTVILLE SPECIFICATIONS, INCLUDING PRESSURE TEST AND CHLORINATION FOR ALL SERVICE LATERALS 100 mm Ø AND LARGER. BASE LIFT OF GRAVEL TO BE PLACED OVER WATER MAINS AND SERVICES PRIOR TO TESTING (PUBLIC AND PRIVATE INFRASTRUCTURE).
- ANY FIELD MANHOLE CONNECTIONS (IF REQUIRED) TO BE MADE USING CORE DRILL AND KORK-SEAL (SUBJECT TO APPROVAL BY THE TOWN OF KENTVILLE AND THE 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 TOWN OF KENTVILLE AND THE ENGINEER).
- CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY BYPASSING OF STORMWATER FLOWS AS NECESSARY TO COMPLETE THE WORK.
- CONTRACTOR TO PROVIDE 24 HOURS NOTICE TO THE TOWN OF KENTVILLE AND THE ENGINEER OF PIPE AND MANHOLE TESTING, INCLUDING CCTV INSPECTION AND DEFLECTION TESTING.

TRENCH AND BACKFILL CROSS SECTION A
N.T.S. 5



PAVEMENT REINSTATEMENT DETAIL B
N.T.S. 5



CONDON ROAD:

- 40 mm TYPE C-HF ASPHALT
- 50 mm TYPE B-HF ASPHALT
- 150 mm TYPE 1 GRAVEL
- 300 mm TYPE 2 GRAVEL

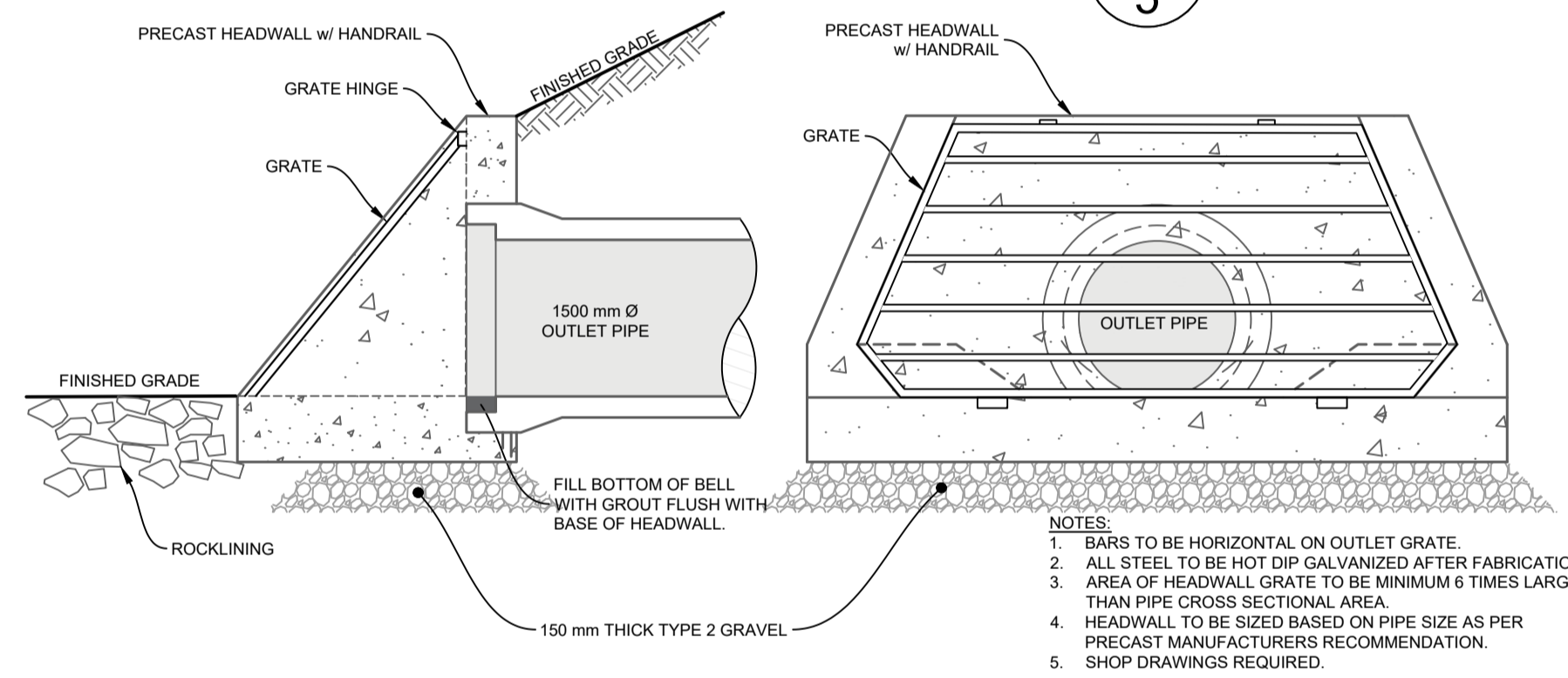
PARK STREET:

- 40 mm TYPE C-HF ASPHALT
- 90 mm TYPE B-HF ASPHALT
- 150 mm TYPE 1 GRAVEL
- 400 mm TYPE 2 GRAVEL

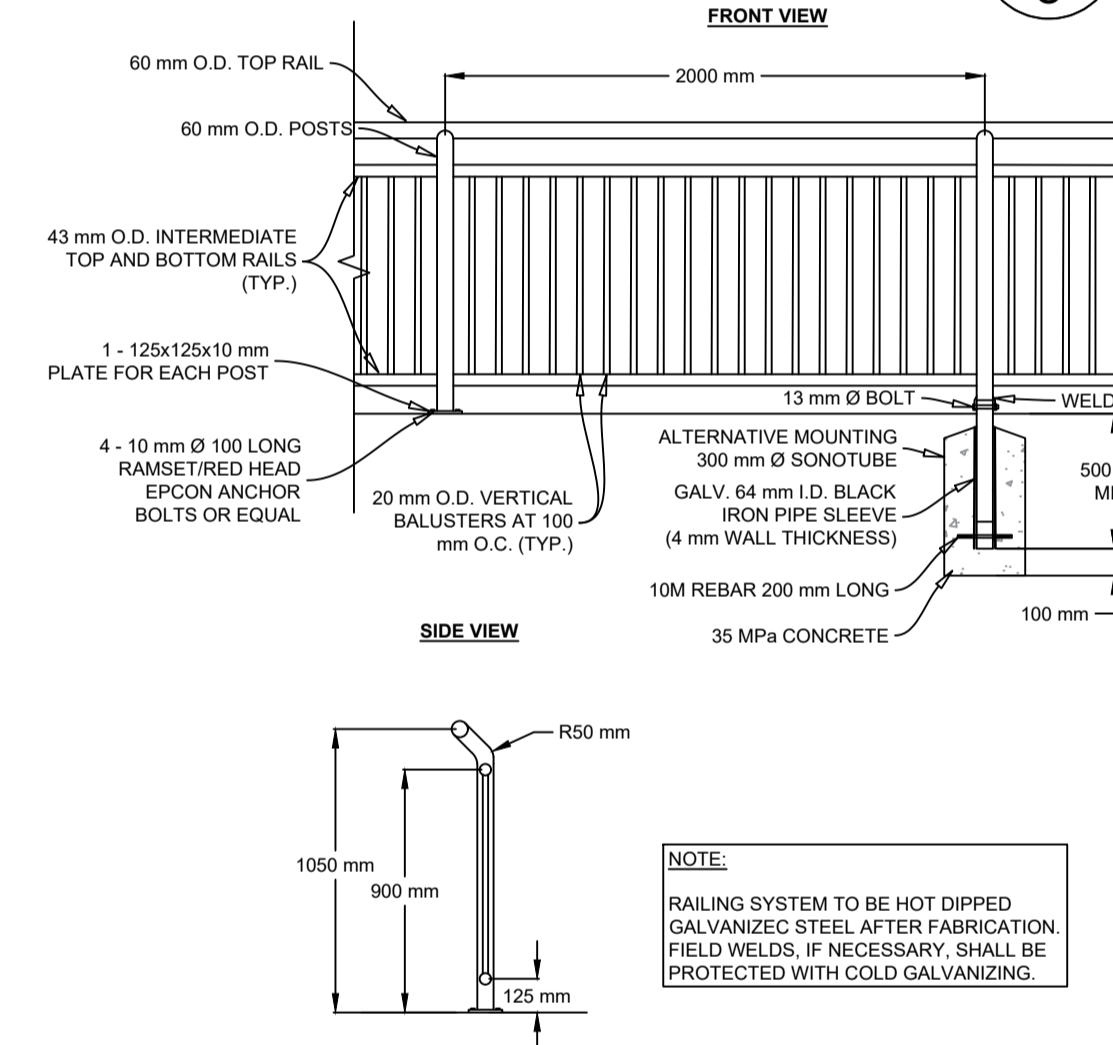
DRIVEWAY / PARKING AREA:

- 75 mm TYPE B-HF ASPHALT
- 150 mm TYPE 1 GRAVEL
- 200 mm TYPE 2 GRAVEL

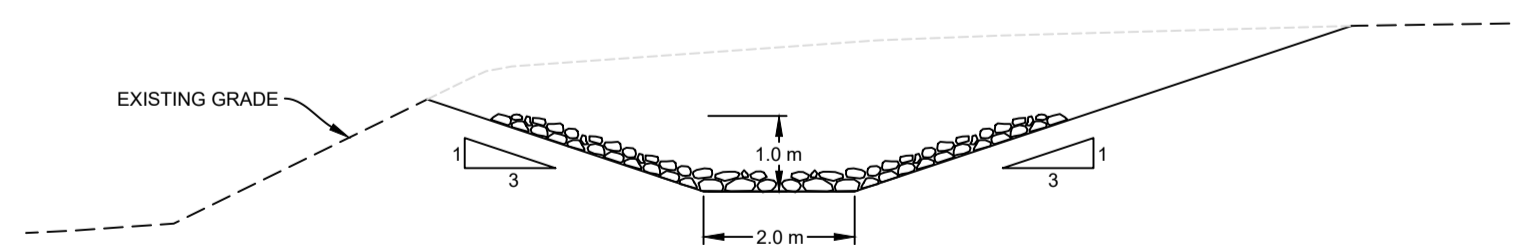
TYPICAL LARGE HEADWALL DETAIL C
N.T.S. 5



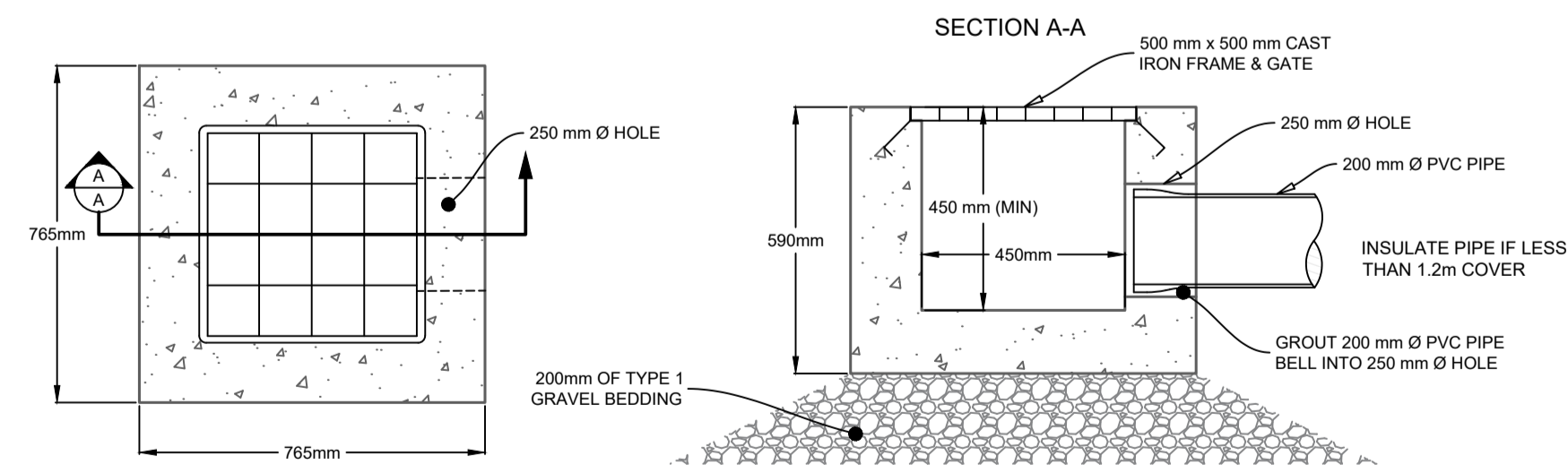
TYPICAL RAIL DETAIL D
N.T.S. 5



ROCKLINED DITCH DETAIL E
N.T.S. 5



TYP. SLUICE BOX F
N.T.S. 5



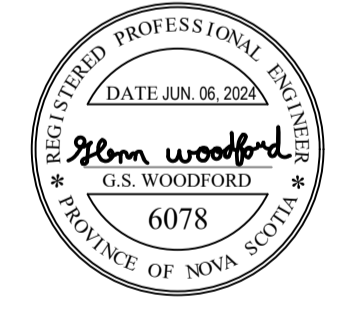
ISSUED FOR REVIEW, NOT FOR CONSTRUCTION

ISSUE	DATE	DESCRIPTION	INT.
3	JUN. 06, 2024	ISSUED FOR TENDER	S.H.
2	MAY 09, 2024	ISSUED FOR NSECC APPROVAL	S.H.
1	MAY 06, 2024	ISSUED FOR MUNICIPAL REVIEW	S.H.

CONSULTANT

DESIGNPOINT
engineering • surveying • solutions

902.832.5597 designpoint.ca



CLIENT



PROJECT DESCRIPTION

CONDON AVENUE STORM SYSTEM UPGRADES

KENTVILLE, NOVA SCOTIA

SHEET DESCRIPTION

CONSTRUCTION NOTES & DETAILS

Drawn S. HANNAM	Engineer G. WOODFORD	Project No. 23-625	Drawing No. C-D5
Scale N.T.S.	Filename 23-625-D.dwg		5 of 5