



REQUEST FOR TENDER

**PLEASANT HILL
STREET REFURBISHMENTS
STEW-2026-04**

CLOSING: Thursday September 10, 2026 at 2:00 pm

The Corporation of the Town of Stewiacke
Town Hall - 295 George Street, Stewiacke NS, B0N 2J0

 STEWIACKÉ RIVERS OF OPPORTUNITY HALF WAY BETWEEN THE NORTH POLE & EQUATOR	PLEASANT HILL STREET REFIRBISHMENTS STEW-2026-04
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INSTRUCTION TO BIDDERS

Sealed Tenders, in clearly marked envelopes, are to be delivered to Town Hall - 295 George Street, Stewiacke NS, B0N 2J0, **prior to 2:00:00 P.M. LOCAL TIME on Thursday September 10, 2026.**

This Request for Tender is to obtain an offer from a qualified contractor. The Town of Stewiacke reserves the right to at any time during the process, reject any or all tenders, either in whole or in part.

Tenders received after the deadline, will not be opened and will be returned unopened. Fax or electronic (email) submissions will not be accepted. The onus is on the Proponent to ensure that the Tender is received in the proper location and before the closing time.

COMMUNICATIONS

All questions relating to this project, are to be directed to **procurement@stewiacke.net**

INSTRUCTIONS TO PROPONENTS

Sealed Tenders, in clearly marked envelopes which includes the prescribed form(s) as instructed, are to be delivered to **Town Hall - 295 George Street, Stewiacke NS, B0N 2J0**, prior to 2:00:00 P.M. LOCAL TIME (as per time clock located in the Corporate Services Division) **Thursday, September 10, 2026.**

The Town of Stewiacke is NOT obligated to accept the lowest or any Tender. The onus is on the Proponent to ensure that the Tender is received in the proper location and before the closing time.

Tenders must be submitted on the forms provided. Tenders that do not comply strictly with the terms and conditions hereof may be declared informal and/or disqualified. Tenders that are incomplete, conditional, obscure or unqualified will be rejected.

Your signed Tender submission shall be taken as your statement that you understand the requirements and agree to comply with our requirements and any supplementary terms and conditions stated in the Tender Documents. Your signed Tender Document confirms that you have checked and confirmed your pricing and by signing the Form of Tender and/or Form of Quotation or your Tender submission, you agree that you have not omitted any items from your Tender and you will be bound by law to supply the items as specified at the prices proposed.

The contractor is responsible for required traffic measures and overall site safety.

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SCOPE OF WORK

Please refer to the DRAWINGS & SPECIFICATIONS within the attached tender drawing package specific to Pleasant Hill.

Tender Drawings

Town of Stewiacke– Street Refurbishments, Issued for Tender

- .0 Sheet 0: Cover Sheet
- .1 Sheet 1: Plan and Profile, Riverside Ave North: STA. 0+000 TO 0+300 **(COMPLETE)**
- .2 Sheet 2: Plan and Profile, Riverside Ave Mid: STA. 0+300 TO 0+620 **(COMPLETE)**
- .3 Sheet 3: Plan and Profile, Riverside Ave South: STA. 0+620 TO 0+940 **(COMPLETE)**
- .4 Sheet 4: Plan and Profile, Lewis St: STA. 0+000 TO 0+160 **(FUTURE TENDER)**
- .5 Sheet 5: Plan and Profile, Pleasant Hill: STA. 0+000 TO 0+220**
- .6 Sheet 6: Storm Drainage – Plan 1**
- .7 Sheet 7: Storm Drainage – Plan 2**
- .8 Sheet 8: Construction Notes and Details**
- .9 Sheet 9: Construction Notes and Details 2**
- 10 Sheet 10: Construction Notes and Details 3**

REFERENCES

The Proponent shall provide three references. The Town reserves the right to contact the references provided or any others deemed appropriate by the Town.

The Town reserves the right to obtain and consider reference feedback from Town staff having experience with the Proponent who has provided services to the Town. Staff currently employed by the Town cannot be listed as client references.

References will only be rated as a pass/fail. References that are considered accurate and relevant based on the size and scope of this project and prove to validate, to the Town’s satisfaction, that the Proponent generally met the reference’s expectations will be rated as a pass.

The Town may choose not to enter into contract negotiations with any Proponent whose references, in the Town’s sole opinion, are found to be unsatisfactory.

References – Please List Three	
Reference 1	
Reference 2	
Reference 3	

PROPONENT'S DECLARATION

I/We certify that:

1. The party(ies) executing this document is authorized to bind their corporation.
2. To the best of my/our knowledge and belief the information provided in our Tender submission is correct.
3. Except as expressly and specifically permitted in the Instructions to Proponents, no Proponent shall have any claim for any compensation of any kind whatsoever, as a result of participating in this tender process, and by submitting a tender each Proponent shall be deemed to have agreed that it has no such claim.
4. To the best of my/our knowledge and belief the Tender submission is made without any connection, comparison of figures or arrangement with or knowledge of any other corporation, firm or person submitting a tender for the same Work and is in all respects fair and without collusion or fraud.
5. To the best of my/our knowledge and belief no member of Town Council, Committees and no officer or employee of the Town of Stewiacke is, will be, or has, become interested, directly or indirectly, as a contracting party, partner, stockholder, surety or otherwise in, or in the performance of this agreement, or in the supplies, Work, or business to which it relates, or in any portion of the profits thereof, or in any of the money to be derived there from.
6. My/Our Tender submission will remain open for acceptance for a period of 90 (ninety) business days after opening of the Tenders and the Town of Stewiacke may at any time within this period accept our Tender submission.
7. To the best of my/our knowledge and belief there is not nor was there any actual or perceived unfair advantage or conflict of interest in our tender submission or our performing of or observing the contractual obligations of the proponent as set out in the contract.

I/We agree if awarded the contract that I/we will supply at the time of issue or my execution of the contract, at my/our expense, a copy of our letter of incorporation, certificate of corporate status, or business registration.

Name of Firm: _____

Signing Officer's
Signature: _____

Declared by me this _____ day of _____ 2026.

GENERAL ACKNOWLEDGEMENTS

No Collusion

In participating in this Request for Tender, the Proponent will not discuss or communicate, directly or indirectly, with any other Proponent or any servant, agent or representative thereof, respecting the preparation or presentation of their Tender. Each Proponent's Tender shall be submitted without any connection, knowledge, comparison of figures or arrangements with any other Proponent or servant, agent or representative thereof and each Proponent will be responsible to ensure that its participation in this process is conducted fairly and without collusion or fraud.

Conflict of Interest

The Proponent shall provide a statement that clearly identifies that the Proponent has no conflict of interest with respect to other work and/or other clients.

No member of the Council and no officer or employee of the Town is, will be, or has become interested, directly or indirectly, as a contracting party, partner, stockholder, surety or otherwise howsoever in or in the performance of the said contract, or in the supplies, work or business in connection with the said agreement, or in any portion of the profits thereof, or any supplies to be used herein, or in any of the monies to be derived therefrom

Cancellation

Failure by the successful Proponent to comply with all terms, conditions and general provisions of this Request for Tender to the satisfaction of the Town of Stewiacke shall be just cause for the cancellation of the Contract award. The Town of Stewiacke shall then have the right to award this Contract to any other Proponent, or to re-issue the Request for Tender.

Default

In the event that the successful Proponent fails to properly, promptly, and fully carry out the Work required by these Documents, the Town reserves the right to notify the successful Proponent to discontinue all Work under this Contract, to advertise for new Tenders or carry out the Work in any way as the Town may, at its sole discretion, deem best.

Indemnification

The Proponent will indemnify and save harmless the Town, its employees, agents, successors, and assigns, from and against all actions claims and demands whatsoever which may be brought against or made upon the Town and against all losses, liability, judgments, claims, costs, demands or expenses which the Town may sustain, suffer, or be put to resulting from or arising out of the Proponent's failure to exercise reasonable care, skill or

diligence in the performance or rendering of any Work or service required hereunder to be performed or rendered by the Proponent.

Claims and Costs

All costs and expenses incurred by the Proponent relating to the Tender submission and any negotiations with the Town of Stewiacke will be borne by the Proponent. The Town of Stewiacke is not liable to pay such costs or expense or reimburse or compensate Proponents under any circumstances, including the rejection of any or all other Tenders. The Town of Stewiacke will not accept responsibility for any delays or costs associated with any reviews or the approval process. No Proponent shall have any claim for any compensation of any kind whatsoever as a result of participating in this Request for Tender and by submitting a Tender, the Proponent shall be deemed to have agreed that it has no claim. The Proponent hereby releases and waives any claims for damages, including any claims for damages for fundamental breach, relating to this Request for Tender.

Rejection of Tenders

The Town of Stewiacke reserves the right to reject any, or any part of, or all Tenders, and also reserves the right to award a contract to other than the Proponent submitting the lowest total acquisition cost or highest scored Tender. The Town of Stewiacke will not consider Tenders where the Form of Tender is improperly filled out.

Variation of Tender Prices

No variation in the unit prices or total Tender Price will be permitted after a sealed Tender has been submitted to the authorized representative, except in the instance of variation due solely to an increase or decrease in the rate of eligible taxes, beyond the control of the Proponent, occurring after the time and date of submission of their Tender. An increase or a decrease in the rate of eligible taxes, under these circumstances, shall alter the price of the Tender, but only to the extent of the tax increase or decrease.

Legal Compliance

The Contract resulting from the Request for Tender shall be governed by, subject to and interpreted in accordance with the laws of the Province of Nova Scotia.

Proponents/Bidders will be required to demonstrate that they are in compliance with the requirements of any applicable authority which is licensing, regulating or approving the activities which relate to the tender, request for tender or quotation.

Site Inspection

The Town reserves the right to show or inspect the site at any time and also to cancel any order or stop any Work that is not performed in strict accordance with the specifications.

Control and Correction of Work

The successful Proponent shall adequately protect the Work, the Owner's property, adjacent property and the public, and shall be fully responsible for any damage or injury due to his act or neglect or is attributable to the acts or omissions of the successful Proponent, its subcontractors, suppliers, agents, employees, officers, directors, and all other persons and other entities for whose acts the successful Proponent may be liable or for whom it is responsible in law and their respective officers, directors, agents and employees;

The successful Proponent shall be solely responsible for construction means, methods, techniques, sequences and procedures and co-ordinating the various parts of the Work under the Contract. The successful Proponent shall complete the Work in a first class and Workmanlike manner in conformity with the Contract Documents.

Insurance

Forthwith upon the execution of agreement the contractor shall provide a copy of their commercial general liability insurance insuring against damage or injury to persons or property with the Town of Stewiacke added as an additional insured.

Permits and Regulations

The Proponent shall apply and pay for all necessary permits and licenses, approvals and consents required for the execution of the Work. The Proponent shall give all necessary notices and pay all fees required by law and comply with all laws, by-laws, rules, regulations and requirements relating to the Work and to the preservation of public health. The Proponent shall be responsible for the safety of all Workers and equipment on the site in accordance with all applicable safety legislation passed by Federal, Provincial and Local Authorities governing construction safety.

Subcontractor Qualifications

Since all Proponents must be qualified and experienced in this type of Work, it will be necessary for the Proponent to verify that its subcontractors are similarly qualified and experienced in their specified area of Work. Therefore, the Proponent is required to submit both a list of subcontractors (Schedule 2) for approval along with a list of references. Only those subcontractors named and approved at time of order may be used. Approval of subcontractors is at the sole discretion of the Owner.

The Contractor shall be responsible to the Owner for the acts and omissions of its subcontractors and of all persons directly or indirectly employed by it in connection with the Work and shall be responsible for and shall ensure they obtain all necessary permits, licences, certificates, inspections and insurance in accordance with the Work as may be required by laws, rules, regulations and codes related to the Work and the Contract Documents. Nothing contained in the Contract Documents shall create any contractual relation between any subcontractor and the Owner.

 STEWIACKÉ RIVERS OF OPPORTUNITY HALF WAY BETWEEN THE NORTH POLE & EQUATOR	PLEASANT HILL STREET REFIRBISHMENTS STEW-2026-04
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The Owner reserves the absolute right to require the Contractor to use an alternate subcontractor where the subcontractor is in litigation adverse to the Owner. The Owner shall not be liable to the Proponent for any costs associated with this change in sub-proponent.

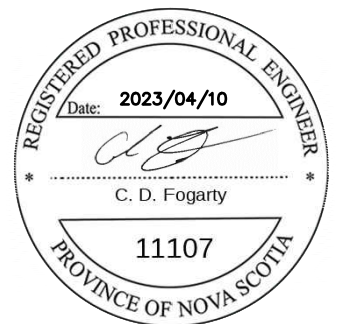
Limitations of Operations

Schedule shall be based upon all Work required to complete the contract must be carried on between the hours of 7:00 a.m. and 7:00 p.m., Monday to Saturday. Please note that no Work will be permitted on legal holidays or holidays observed by the Town of Stewiacke without the written permission of the Contract Administrator. If the successful Proponent wishes to perform Work outside of the hours noted above, they may do so upon the written permission of the Contract Administrator.

STEWIACKE, N.S.



Map of the area around the intersection of Main Street East and Canadian National Railway. The map shows a grid of streets including Main Street West, Main Street East, and the Sewage River. A north arrow is located in the top right corner, and a scale bar is in the bottom right corner.



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REVISION:		
0	2023/04/03	ISSUED FOR TENDER
NO.	DATE: YYYY/MM/DD	DESCRIPTION

PROJECT NUMBER: 181-01036		DATE: (YYYY/MM/DD) 2023/04/03
ORIGINAL SCALE: HORIZONTAL: 1:3500 VERTICAL: N/A		IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.  25mm
DESIGNED BY: D. HOVEY	DRAWN BY: D. HOVEY	
CHECKED BY: A. MILLIGAN	APPROVED BY: C. FOGARTY	



WSP Canada Inc.
1 Spectacle Lake Drive
Dartmouth, Nova Scotia, Canada B3B 1X7
T 902-835-9955 F 902-835-1645 www.wsp.com

CLIENT: TOWN OF STEWIACKE

CLIENT REF. #:
PROJECT:

STREET REFURBISHMENTS

STEWIACKE, N.S.

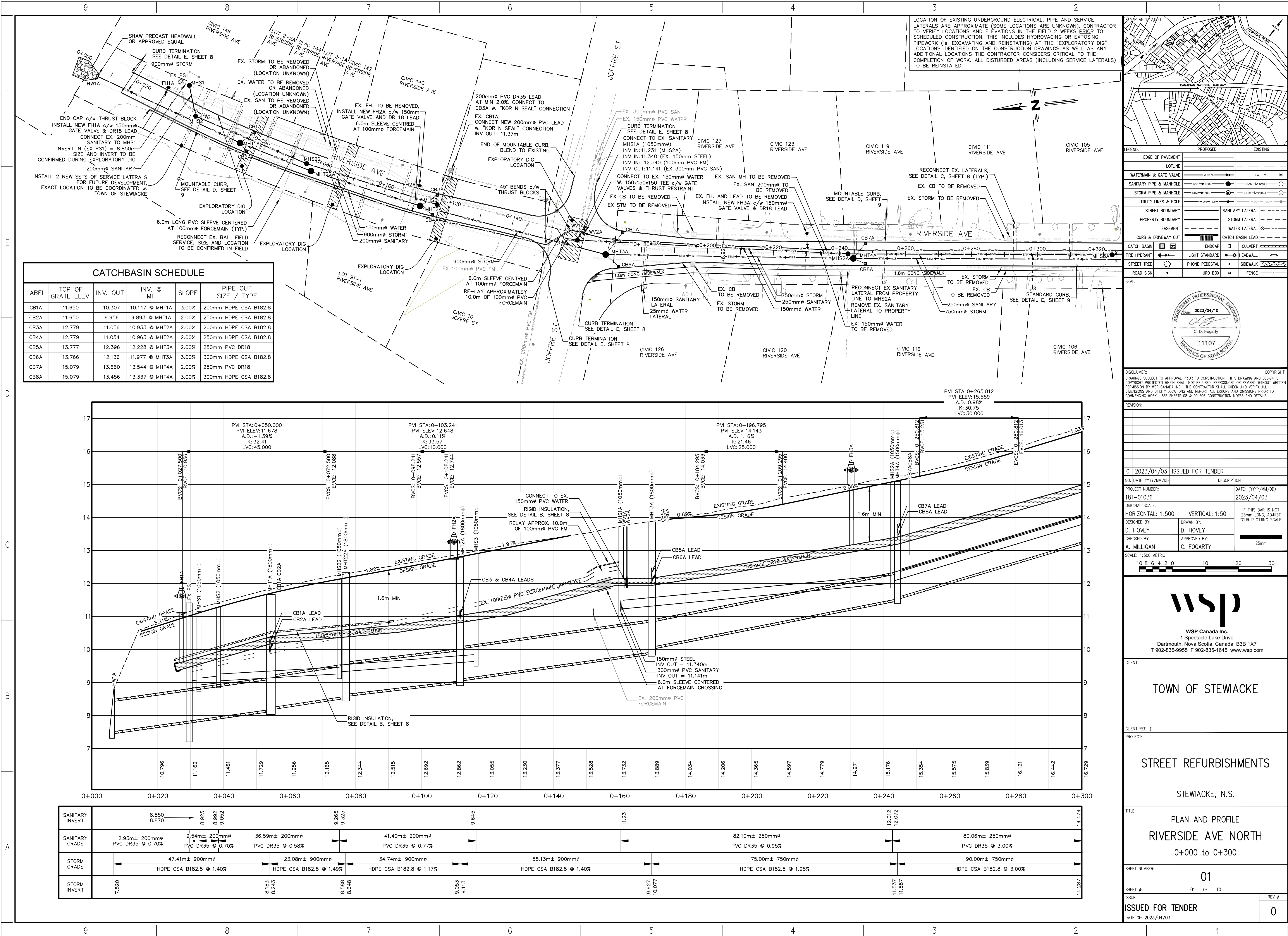
TITLE:

COVER SHEET

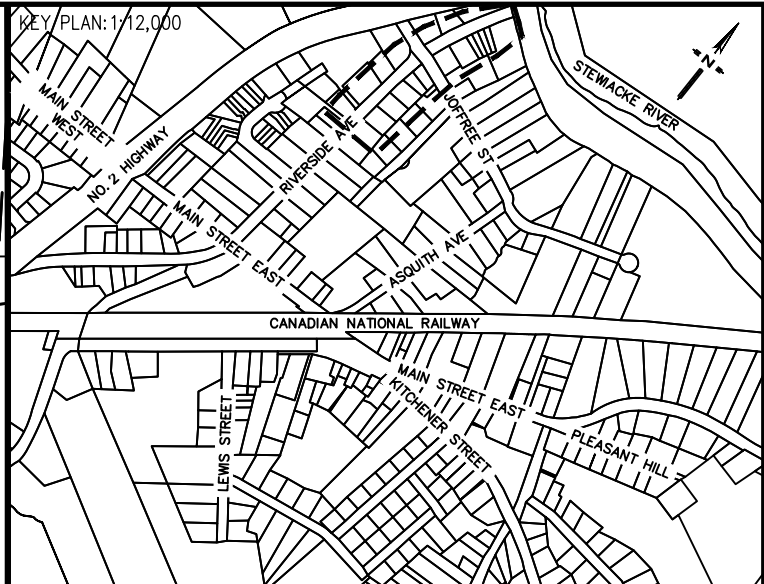
SHEET NUMBER: 00

SHEET #: 00 OF 10

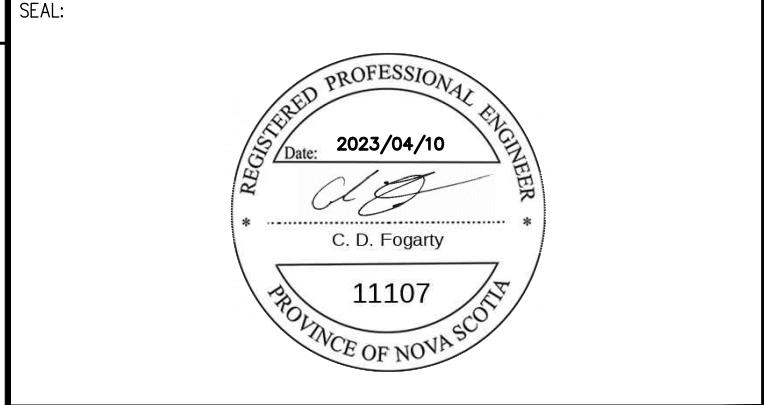
ISSUED FOR TENDER	0
DATE OF: 2023/04/03	



CATCHBASIN SCHEDULE					
LABEL	TOP OF GRATE ELEV.	INV. OUT	INV. @ MH	SLOPE	PIPE OUT SIZE / TYPE
CB1A	11.650	10.307	10.147 @ MHT1A	3.00%	200mm HDPE CSA B182.8
CB2A	11.650	9.956	9.893 @ MHT1A	2.00%	250mm HDPE CSA B182.8
CB3A	12.779	11.056	10.933 @ MHT2A	2.00%	200mm HDPE CSA B182.8
CB4A	12.779	11.054	10.963 @ MHT2A	2.00%	250mm HDPE CSA B182.8
CB5A	13.777	12.396	12.228 @ MHT3A	2.00%	250mm PVC DR18
CB6A	13.766	12.136	11.977 @ MHT3A	3.00%	300mm HDPE CSA B182.8
CB7A	15.079	13.660	13.544 @ MHT4A	2.00%	250mm PVC DR18
CB8A	15.079	13.456	13.337 @ MHT4A	3.00%	300mm HDPE CSA B182.8



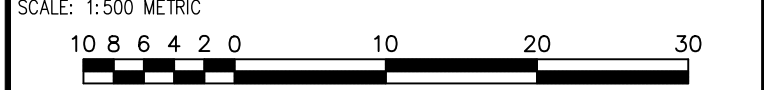
LEGEND		PROPOSED	EXISTING
EDGE OF PAVEMENT			
LOTLINE			
WATERMAIN & GATE VALVE			
SANITARY PIPE & MANHOLE			
STORM PIPE & MANHOLE			
UTILITY LINES & POLE			
STREET BOUNDARY			
PROPERTY BOUNDARY			
EASEMENT			
CURB & DRIVEWAY CUT			
CATCH BASIN			
FIRE HYDRANT			
STREET TREE			
ROAD SIGN			
SANITARY LATERAL			
STORM LATERAL			
WATER LATERAL			
HEADWALL			
SEWAGE			



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REVISION	
NO.	DATE YYYY/MM/DD
0	2023/04/03

PROJECT NUMBER: 181-01036		DATE: (YYYY/MM/DD) 2023/04/03
ORIGINAL SCALE: HORIZONTAL: 1:500 VERTICAL: 1:50		IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: D. HOVEY	DRAWN BY: D. HOVEY	
CHECKED BY: A. MILLIGAN	APPROVED BY: C. FOGARTY	



wsp

WSP Canada Inc.
1 Spectacle Lake Drive
Dartmouth, Nova Scotia, Canada B3B 1X7
T 902-835-9955 F 902-835-1645 www.wsp.com

CLIENT: TOWN OF STEVIACKÉ

CLIENT REF. #:

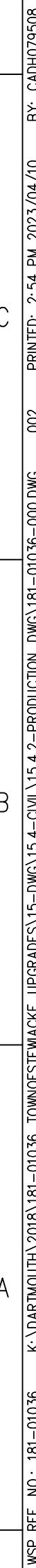
PROJECT:

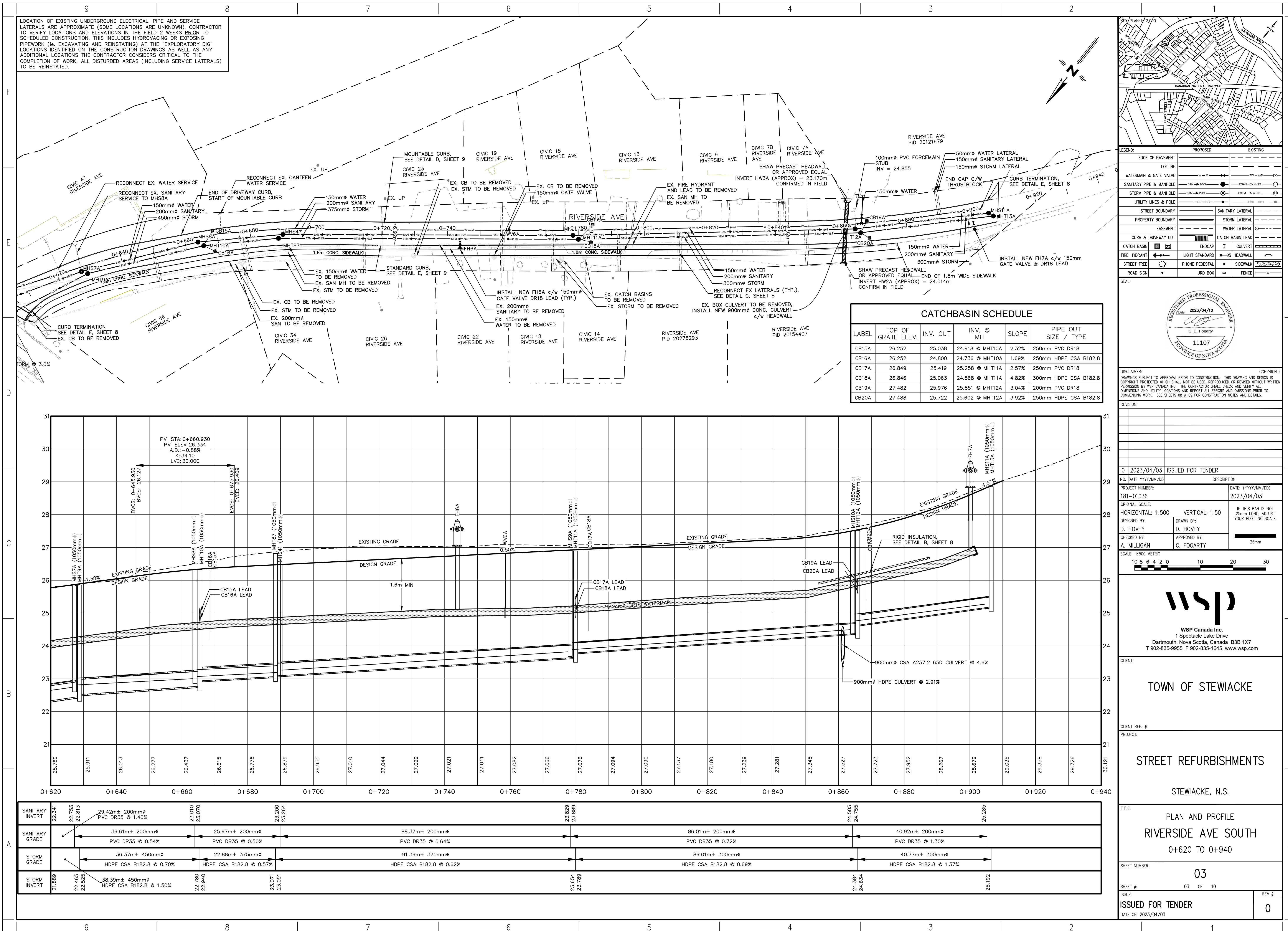
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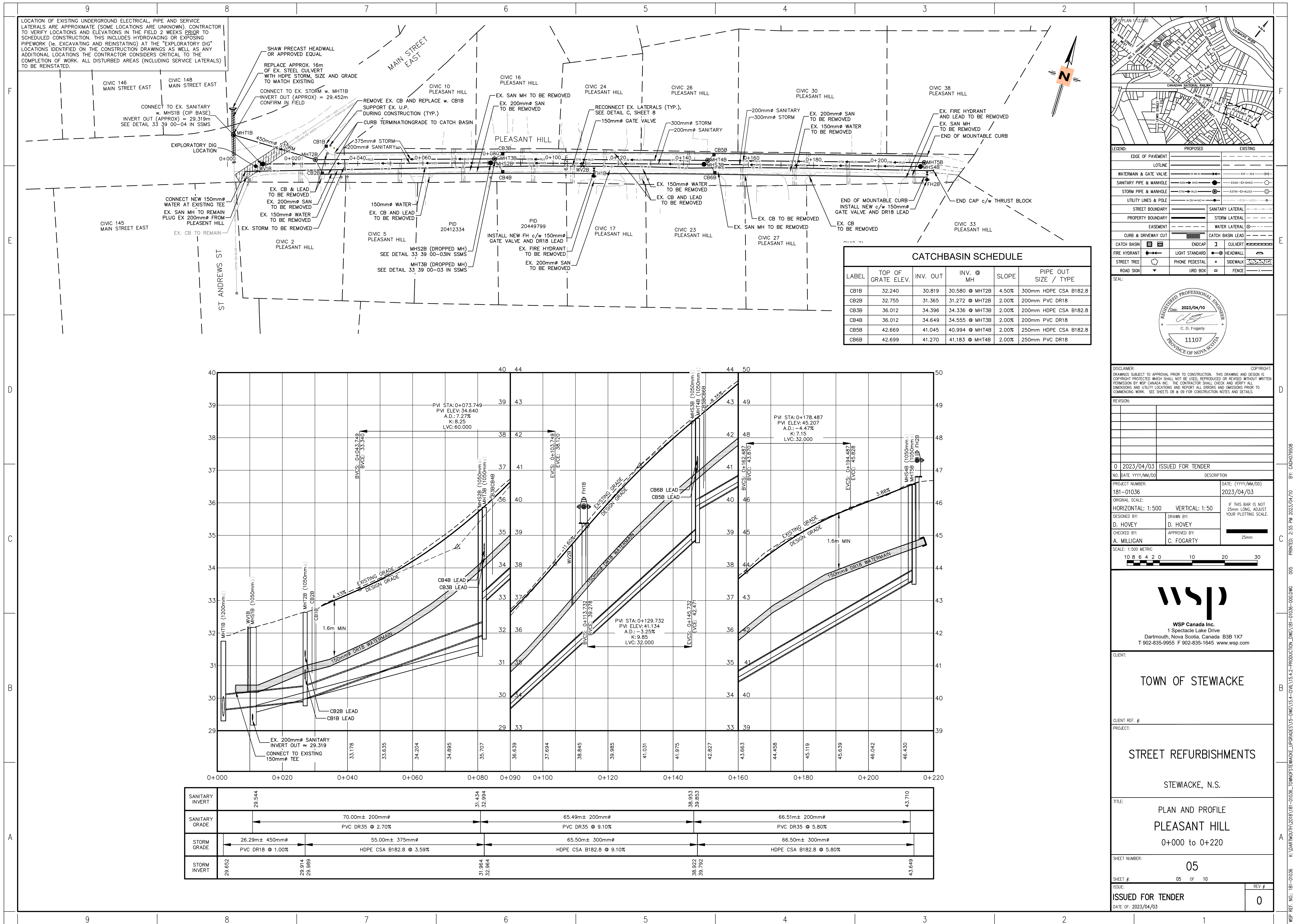
RIVERSIDE AVE NORTH

0+000 to 0+300

SHEET NUMBER: 01	
SHEET # 01 OF 10	
ISSUE: ISSUED FOR TENDER	
DATE OF: 2023/04/03	
REV #	0





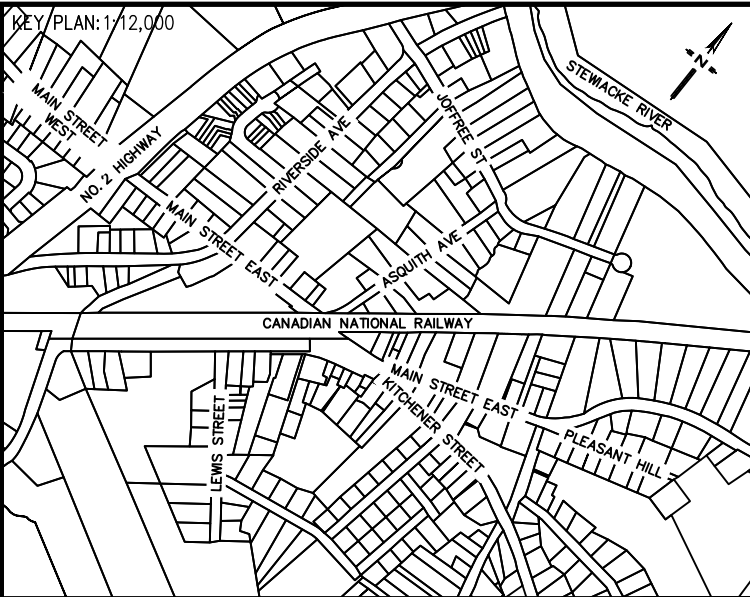


A STORM DRAINAGE -RIVERSIDE AVE
1:1500

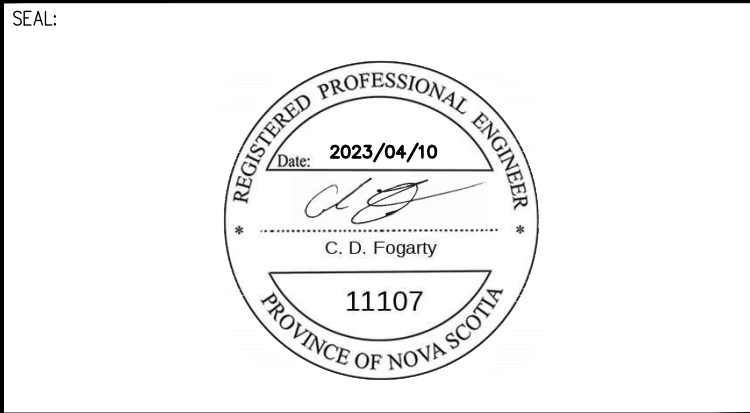
MINOR SYSTEM SUBCATCHMENT AREAS SCS (5 year)				
SUBCATCHMENT AREAS	RATIONAL 'C' VALUES	SUBCATCHMENT AREAS	RATIONAL 'C' VALUES	
A1	4.78± Ha	B1	0.13± Ha	87
B2	0.09± Ha	B2	0.41± Ha	87
B4	.20± Ha	B5	0.70± Ha	87
B6	0.20± Ha	B7	5.68± Ha	87
B8	1.42± Ha	B8	0.26± Ha	87
B9	1.53± Ha	B9	0.24± Ha	87
B10	1.65± Ha	B10	0.27± Ha	87
B14	1.45± Ha	B10	0.29± Ha	87
B16	1.39± Ha	B10	0.27± Ha	87
B18	0.46± Ha	B10	0.17± Ha	87
B20	0.42± Ha	B10	0.19± Ha	87

MINOR PIPED STORM SYSTEM STORM DRAINAGE ANALYSIS - SCS METHOD									
FLOW FROM MANHOLE	FLOW TO MANHOLE	TRIBUTARY AREA	TRIBUTARY AREA (Ha)	DESIGN FLOW (L/s)	PIPE SIZE (mm)	PIPE SLOPE (%)	PIPE CAPACITY (L/s)	OVERALL CAPACITY	
5 YEAR RETURN PERIOD									
RIVERSIDE AVE									
N/A	HW1	A1*	4.76±	1490.0	900	4.65%	3903.7	.38	
MHT13A	MHT12A	N/A	0.00±	0.0	300	0.70%	96.7	0.0	
MHT12A	MHT11A	B1-B2	0.22±	32.8	300	0.70%	87.6	0.37	
MHT11A	MHT10A	B1-B4	0.83±	116.9	375	0.70%	158.9	0.73	
MHT10A	MHT9A	B1-B6	1.73±	183.5	450	0.70%	308.8	0.59	
MHT9A	MHT8A	B1-B6	1.73±	181.9	450	1.50%	308.8	0.59	
MHT8A	MHT7A	B1-B7	7.41±	445.0	525	2.10%	675.2	0.66	
MHT7A	MHT6A	B1-B9	9.09±	554.4	525	3.30%	846.3	0.65	
MHT6A	MHT5A	B1-B11	10.86±	688.4	600	3.00%	1151.4	0.59	
MHT5A	MHT4A	B1-B13	12.76±	846.8	750	3.00%	2088.9	0.41	
MHT4A	MHT3A	B1-B15	14.52±	972.7	750	2.05%	1726.9	0.56	
MHT3A	MHT2A	B1-B17	16.18±	1097.9	900	1.40%	2320.5	0.47	
MHT2A	MHT1A	B1-B19	16.81±	1111.4	900	1.40%	2320.7	0.47	
MHT1A	HW1	B1-B21	17.42±	1128.9	900	1.40%	2320.2	0.48	

- RAINFALL INTENSITY BASED ON TRURO RAINFALL INTENSITY/DURATION CURVES.
- PIPE CAPACITY BASED ON MANNING'S EQUATION (n=0.012).
- CONTRACTOR TO INSTALL INLET CONTROL DEVICES IN CATCHBASINS AS DIRECTED BY ENGINEER.
- ROOF LEADERS TO DISCHARGE TO SURFACE.
- CULVERT SIZING - 10 YEAR RETURN, HW/D = 1.5



LEGEND:	
DRAINAGE AREA	---
APPROX. 5 YR FLOOD LIMIT	--- 5 YR --- 5 YR ---
APPROX. 100 YR FLOOD LIMIT	--- 100 YR --- 100 YR ---
MAJOR DRAIN	→
FLOW FROM POINT	(X 1)
FLOW TO POINT	(A)
DRAINAGE AREA	(A1)



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NO.	DATE YYYY/MM/DD
0	2023/04/03 ISSUED FOR TENDER
PROJECT NUMBER: 181-01036	
DATE: (YYYY/MM/DD) 2023/04/03	
ORIGINAL SCALE: HORIZONTAL: 1:1500 VERTICAL: N/A	
DESIGNED BY: D. HOVEY	
DRAWN BY: D. HOVEY	
CHECKED BY: A. MILLIGAN	
APPROVED BY: C. FOGARTY	



CLIENT: TOWN OF STEVIACKÉ

PROJECT: STREET REFURBISHMENTS
STEWIACKÉ, N.S.

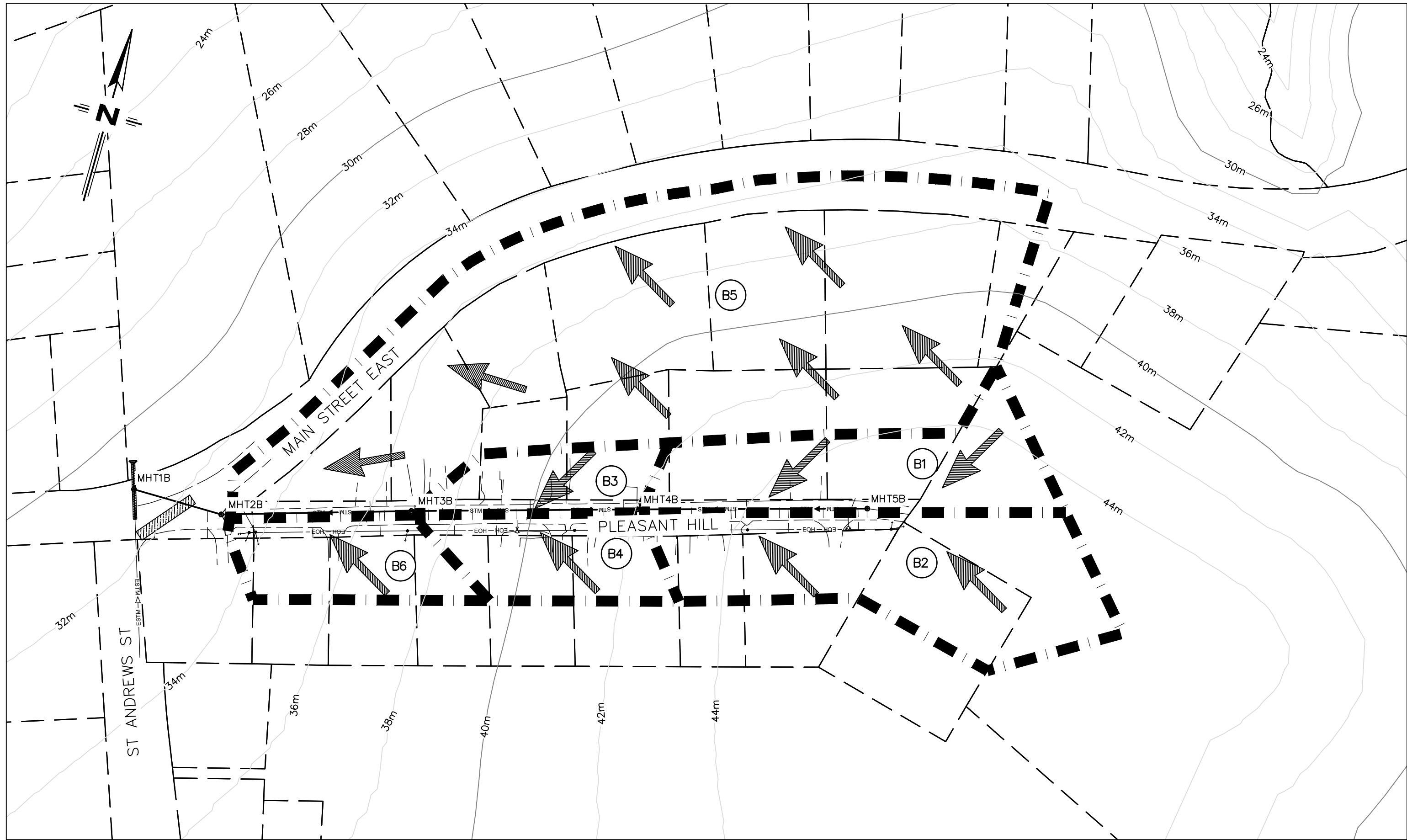
TITLE: STORM DRAINAGE
PLAN 1

SHEET NUMBER: 06
SHEET # 06 OF 10
ISSUED FOR TENDER
DATE OF: 2023/04/03

REV # 0

B STORM DRAINAGE - PLEASANT HILL

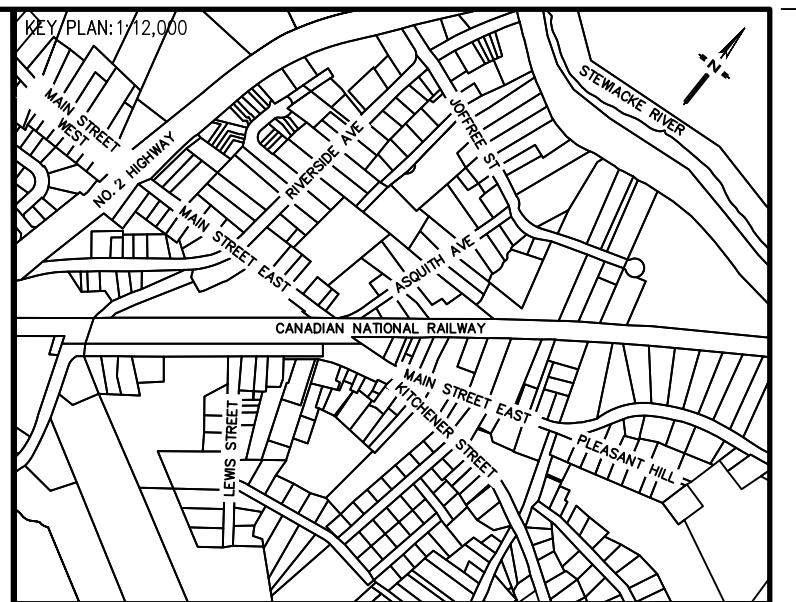
1:1000



MINOR SYSTEM SUBCATCHMENT AREAS SCS (5 year)					
SUBCATCHMENT AREAS		RATIONAL 'C' VALUES	SUBCATCHMENT AREAS		RATIONAL 'C' VALUES
B1	0.27± Ha	87	B2	0.40± Ha	87
B3	0.11± Ha	87	B4	0.15± Ha	87
B5	0.15± Ha	87	B6	1.39± Ha	87

MINOR PIPED STORM SYSTEM STORM DRAINAGE ANALYSIS - SCS METHOD								
FLOW FROM MANHOLE	FLOW TO MANHOLE	TRIBUTARY AREA	TRIBUTARY AREA (Ha)	DESIGN FLOW (L/s)	PIPE SIZE (mm)	PIPE SLOPE (%)	PIPE CAPACITY (L/s)	OVERALL CAPACITY
5 YEAR RETURN PERIOD								
PLEASANT HILL								
MHT5B	MHT4B	N/A	0.00±	0.0	300	5.80%	252.3	0.0
MHT4B	MHT3B	B1-B2	0.67±	98.5	300	9.10%	316.0	.31
MHT3B	MHT2B	B1-B4	0.93±	131.4	375	1.60%	151.8	.55
MHT2B	MHT1B	B1-B6	2.47±	297.7	450	1.00%	370.7	.80

- RAINFALL INTENSITY BASED ON TRURO RAINFALL INTENSITY/DURATION CURVES.
- PIPE CAPACITY BASED ON MANNING'S EQUATION (n=0.012).
- CONTRACTOR TO INSTALL INLET CONTROL DEVICES IN CATCHBASINS AS DIRECTED BY ENGINEER.
- ROOF LEADERS TO DISCHARGE TO SURFACE.



LEGEND:	
DRAINAGE AREA	---
APPROX. 5 YR FLOOD LIMIT	5 YR = 50 L/S
APPROX. 100 YR FLOOD LIMIT	100 YR = 50 L/S
MAJOR DRAIN	→
FLOW FROM POINT	X 1
FLOW TO POINT	A
DRAINAGE AREA	A1



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REVISION:	

0	2023/04/03	ISSUED FOR TENDER
NO.	DATE	DESCRIPTION
PROJECT NUMBER:	181-01036	DATE: (YYYY/MM/DD) 2023/04/03
ORIGINAL SCALE:	HORIZONTAL: 1:1000 VERTICAL: N/A	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY:	D. HOVEY	DRAWN BY:
CHECKED BY:	A. MILLIGAN	APPROVED BY:
		C. FOGARTY



CLIENT: TOWN OF STEVIACKÉ

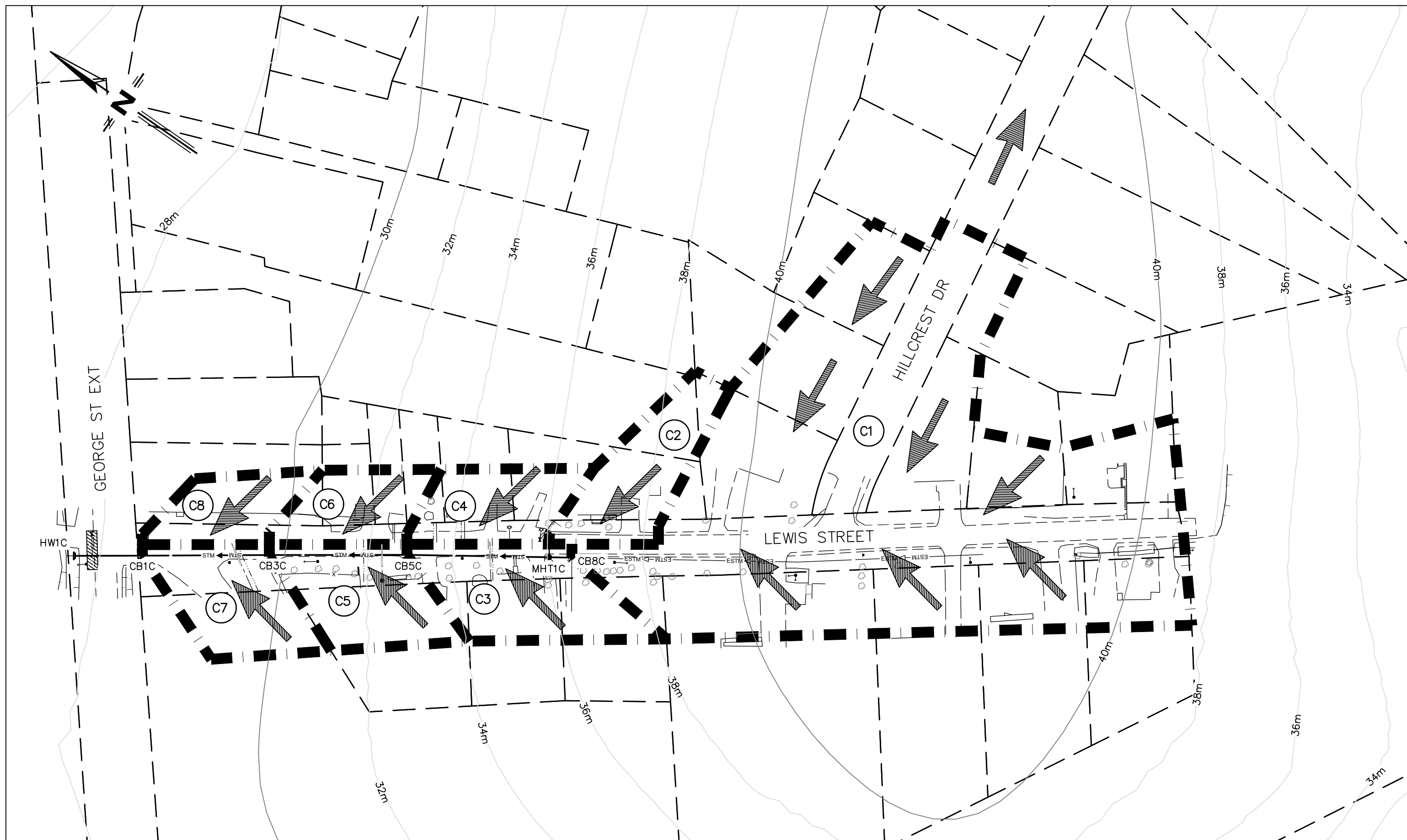
PROJECT: STREET REFURBISHMENTS
STEWIACKÉ, N.S.

TITLE: STORM DRAINAGE
PLAN 2

SHEET NUMBER:	07
SHEET #	07 OF 10
ISSUED FOR TENDER	0
DATE OF: 2023/04/03	

C STORM DRAINAGE - LEWIS STREET

1:1000



MINOR SYSTEM SUBCATCHMENT AREAS SCS (5 year)					
SUBCATCHMENT AREAS		RATIONAL 'C' VALUES	SUBCATCHMENT AREAS		RATIONAL 'C' VALUES
C1	1.25± Ha	87	C2	0.12± Ha	87
C3	0.14± Ha	87	C4	0.09± Ha	87
C5	0.12± Ha	87	C6	0.08± Ha	87
C7	0.12± Ha	87	C8	0.07± Ha	87

MINOR PIPED STORM SYSTEM STORM DRAINAGE ANALYSIS - SCS METHOD								
FLOW FROM MANHOLE	FLOW TO MANHOLE	TRIBUTARY AREA	TRIBUTARY AREA (Ha)	DESIGN FLOW (L/s)	PIPE SIZE (mm)	PIPE SLOPE (%)	PIPE CAPACITY (L/s)	OVERALL CAPACITY
5 YEAR RETURN PERIOD								
LEWIS STREET								
CB8C	MHT1C	C1	1.25	147.0	375	7.00%	463.8	.32
MHT1C	CB5C	C1-C2	1.37±	159.5	375	7.50%	480.2	.33
CB5C	CB3C	C1-C4	1.60±	182.1	375	6.00%	429.5	.42
CB3C	CB1C	C1-C6	1.80±	203.2	375	4.00%	350.7	.58
CB1C	HW1C	C1-C8	1.99±	221.9	450	0.60%	287.7	.77

- RAINFALL INTENSITY BASED ON TRURO RAINFALL INTENSITY/DURATION CURVES.
- PIPE CAPACITY BASED ON MANNING'S EQUATION (n=0.012).
- CONTRACTOR TO INSTALL INLET CONTROL DEVICES IN CATCHBASINS AS DIRECTED BY ENGINEER.
- ROOF LEADERS TO DISCHARGE TO SURFACE.

CONSTRUCTION NOTES

- ALL WORKS TO BE PERFORMED IN ACCORDANCE WITH THE "STANDARD SPECIFICATION FOR MUNICIPAL SERVICES (SSMS)" PREPARED JOINTLY BY THE NOVA SCOTIA ROAD BUILDERS ASSOCIATION AND THE CONSULTING ENGINEERS OF NOVA SCOTIA, CURRENT EDITION AND THE PROJECT SPECIFICATIONS.
- ALL WORKS TO BE PERFORMED IN ACCORDANCE WITH REQUIREMENTS OF NOVA SCOTIA ENVIRONMENT.
- CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM WORKS. COMPLY WITH ALL PERMIT REQUIREMENTS AND CONDITIONS AND COORDINATE STREET CLOSURES WITH EMERGENCY SERVICES AND TOWNS PUBLIC WORKS DEPARTMENT.
- CONTRACTOR TO VERIFY EXISTING SERVICE LOCATIONS IN FIELD PRIOR TO CONSTRUCTION. DISCREPANCIES TO BE REPORTED IMMEDIATELY TO PROJECT ENGINEER. CONTRACTOR TO VERIFY LOCATIONS A MINIMUM OF 3 BUSINESS DAYS PRIOR TO ANY PLANNED WORK IN THE AREA.
- CONTRACTOR TO NOTIFY THE TOWN OF STEWACKE REGARDING CONSTRUCTION SCHEDULE PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR TO VERIFY EXISTING SERVICE LOCATIONS SUCH AS NATURAL GAS SERVICE (IF APPLICABLE), COMMUNICATION SERVICES, AND NSPI SERVICES. COORDINATION TO BE COMPLETED WITH THE APPROPRIATE UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR TO VERIFY EXISTING GRADES, INCLUDING SURROUNDING GRADES, PRIOR TO LOT GRADING WORK. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY. MINIMUM SLOPE TO BE 1.0% FOR PAVED AREA, MAXIMUM SLOPE FOR LANDSCAPED AREAS 3H:1V.
- DRAWINGS SUBJECT TO APPROVAL BY THE TOWN OF STEWACKE PRIOR TO CONSTRUCTION.
- GEOTECHNICAL WORKS TO BE CERTIFIED BY PROJECT GEOTECHNICAL ENGINEER.
- DO NOT SUBSTITUTE MATERIALS UNLESS PRIOR WRITTEN APPROVAL IS GIVEN BY THE PROJECT ENGINEER.
- ALL ELEVATIONS ARE METRIC AND GEODETIC. EXISTING GROUND CONTOURS ARE BASED ON TOPOGRAPHICAL SURVEY COMPLETED BY WSP, MARCH 2018. PROPERTY BOUNDARIES ARE BASED ON PROPERTY MAPPING.
- CONTRACTOR TO CONTACT PROJECT ENGINEER AND TOWN OF STEWACKE FOR SITE REVIEW AT THE FOLLOWING STAGES:
 - SUBGRADE COMPLETED
 - TYPE 2 GRAVEL COMPLETED
 - TYPE 1 GRAVEL COMPLETEDAPPROVAL FROM PROJECT ENGINEER AT EACH STAGE TO BE RECEIVED IN WRITING PRIOR TO START OF WORK ON NEXT STAGE.
- CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF NATURAL WATERCOURSES FROM DAMAGE DUE TO SILTATION RUNOFF FROM THE CONSTRUCTION SITE. ACCEPTABLE CONSTRUCTION PROCEDURE MAY BE OBTAINED FROM "EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES", CURRENT EDITION BY THE NOVA SCOTIA DEPARTMENT OF THE ENVIRONMENT. THE CONTRACTOR IS TO PREPARE AN EROSION AND SEDIMENTATION CONTROL PLAN FOR REVIEW AND APPROVAL BY THE TOWN OF STEWACKE, AND THE ENGINEER PRIOR TO CONSTRUCTION START. THE CONTRACTOR SHALL MAKE NECESSARY REPAIRS TO SEDIMENTATION AND EROSION CONTROL DEVICES AS DIRECTED BY DEVELOPERS ON SITE REPRESENTATIVE.
- WHERE TRENCH ROCK IS ENCOUNTERED AT THE END OF A PIPE RUN, ROCK IS TO BE OVERBROKE 10m BEYOND END OF PIPE.
- WHERE LATERALS CONNECT TO MANHOLES, PROPER BENCHING TO BE CONSTRUCTED TO DIRECT FLOW INTO OUTLET PIPE.
- SANITARY MANHOLES TO BE PRECAST CONCRETE. COVER TO HAVE NEOPRENE GASKET BETWEEN COVER AND FRAME. SANITARY MANHOLES TO BE WATERPROOFED WITH BLUESKIN. AIR TESTING TO TAKE PLACE THROUGH 20mmØ HOLE WITH COVER ON.
- ALL STORM MANHOLES AND CATCHBASINS TO BE PRECAST WITH A-LOC GASKETS FOR ALL PIPE CONNECTIONS.
- ALL MANHOLE FRAME AND COVERS WITHIN TRAVELED WAY TO BE IMP R10 WITH ONE 20mmØ HOLE, GASKETED LID AND FRAME WITH NO SIDE NOTCHES.
- ALL MANHOLE FRAME AND COVERS OUTSIDE TRAVELED WAY TO BE IMP R12 WITH ON 20mmØ HOLE, GASKETED LID AND FRAME WITH NO SIDE NOTCHES.
- ALL CATCHBASINS TO BE 1050mmØ PRECAST CONCRETE WITH FRAME AND GRATE AS FOLLOWS:
 - IMP S401 FOR STANDARD CURB & GUTTER APPLICATIONS.
 - IMP S441 FOR MOUNTABLE CURB APPLICATIONS (DRIVEWAY CUTS).
 - IMP NB STANDARD FOR OFF-STREET APPLICATIONS.
- STORM AND SANITARY LATERALS TO BE INSTALLED AT MINIMUM 2% GRADE TO STREET BOUNDARY OR STEEPER AS DIRECTED BY ENGINEER. USE 125mmØ WHITE PVC DR28 FOR SANITARY LATERALS AND 100mmØ GREEN PVC DR35 FOR STORM LATERALS.
- TRACER WIRE TO BE INSTALLED WITH ALL PVC DR18 WATERMAIN. ALL FITTINGS ARE TO BE POLY-WRAPPED. VALVES TO CLOSE AS PER MUNICIPALITY OF THE COUNTY OF COLCHESTER STANDARDS. GATE VALVES TO BE USED FOR VALVES 300mmØ AND SMALLER.
- CONTRACTOR TO SUPPLY TO THE ENGINEER A VIDEO INSPECTION AND MANDREL TEST REPORT FOR ALL SANITARY AND STORM PIPEWORK INCLUDING CATCHBASIN LEADS.
- INSULATION TO BE H140 ROAD AND TRAFFIC RATED, 50mm RIGID STYROFOAM.
- GRADING TO BE PERFORMED SUCH THAT RUNOFF IS DIRECTED INTO DITCHES, SWALES AND CATCHBASINS.
- PROVIDE FILL TO PREVENT PONDING AS DIRECTED BY ENGINEER.
- SOD AREAS WHERE GRASS HAS BEEN DISTURBED.
- ALL DISTURBED AREAS NOT IMMEDIATELY STABILIZED BY HARD LANDSCAPING, TYPE 1 GRAVEL, OR TOPSOIL AND SEED TO BE COVERED WITH HAY AND/OR MULCH.
- ALL TRAFFIC SIGNS AND PAINTED PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE TAC MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

CONSTRUCTION SEQUENCE

- PERFORM EXPLORATORY DIGS AT NORTH END OF RIVERSIDE AVE AS SHOWN ON DRAWINGS. REPORT SURVEYED LOCATIONS OF EXISTING INFRASTRUCTURE TO PROJECT ENGINEER MINIMUM 2 WEEKS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO PROVIDE TEMPORARY WATER SERVICES TO ALL AFFECTED RESIDENTS ALONG RIVERSIDE AVE, LEWIS ST AND PLEASANT HILL. TEMPORARY WATER PLAN TO BE PREPARED BY THE CONTRACTOR AND APPROVED BY THE TOWN AND THE ENGINEER.
 - INSTALL TEMPORARY WATER FROM NEAREST EXISTING HYDRANT C/W BACK FLOW PREVENTION DEVICE AND REQUIRED PROTECTION TO PREVENT DAMAGE.
 - PRESSURIZE TEMPORARY WATER. PERFORM CHLORINATION AND WATER TESTING AS PER STANDARD SPECIFICATIONS FOR MUNICIPAL SERVICES GUIDELINES.
 - MAKE CONNECTIONS TO EXISTING HYDRANTS AND EXISTING BUILDINGS ALONG RIVERSIDE AVE, LEWIS ST AND PLEASANT HILL.
- INSTALL NEW WATER AND SEWER MAINS STARTING AT NORTH END OF RIVERSIDE AVE.
 - CONSTRUCTION TO BEGIN AT NORTH END OF RIVERSIDE AVE.
 - CATCH BASIN LEADS TO BE INSTALLED 1m FROM MANHOLE/MAIN CONNECTIONS AND CAPPED.
 - WATER MAIN CONNECTIONS TO PERPENDICULAR STREETS TO BE INSTALLED TO TEMPORARY CAPS.
- BACKFILL AND TEST SEWER PIPE AND MANHOLES TO THE STANDARD SPECIFICATIONS FOR MUNICIPAL SERVICES PREPARED BY THE NOVA SCOTIA ROAD BUILDERS ASSOCIATION.
- TEST, FLUSH AND DISINFECT WATER MAIN.
- REMOVE ALL ABANDONED MANHOLE/CATCHBASIN SECTIONS AND WATER VALVE BOXES.
- REINSTATE ALL DISTURBED SURFACES.
- REMOVE TEMPORARY WATER SERVICE.

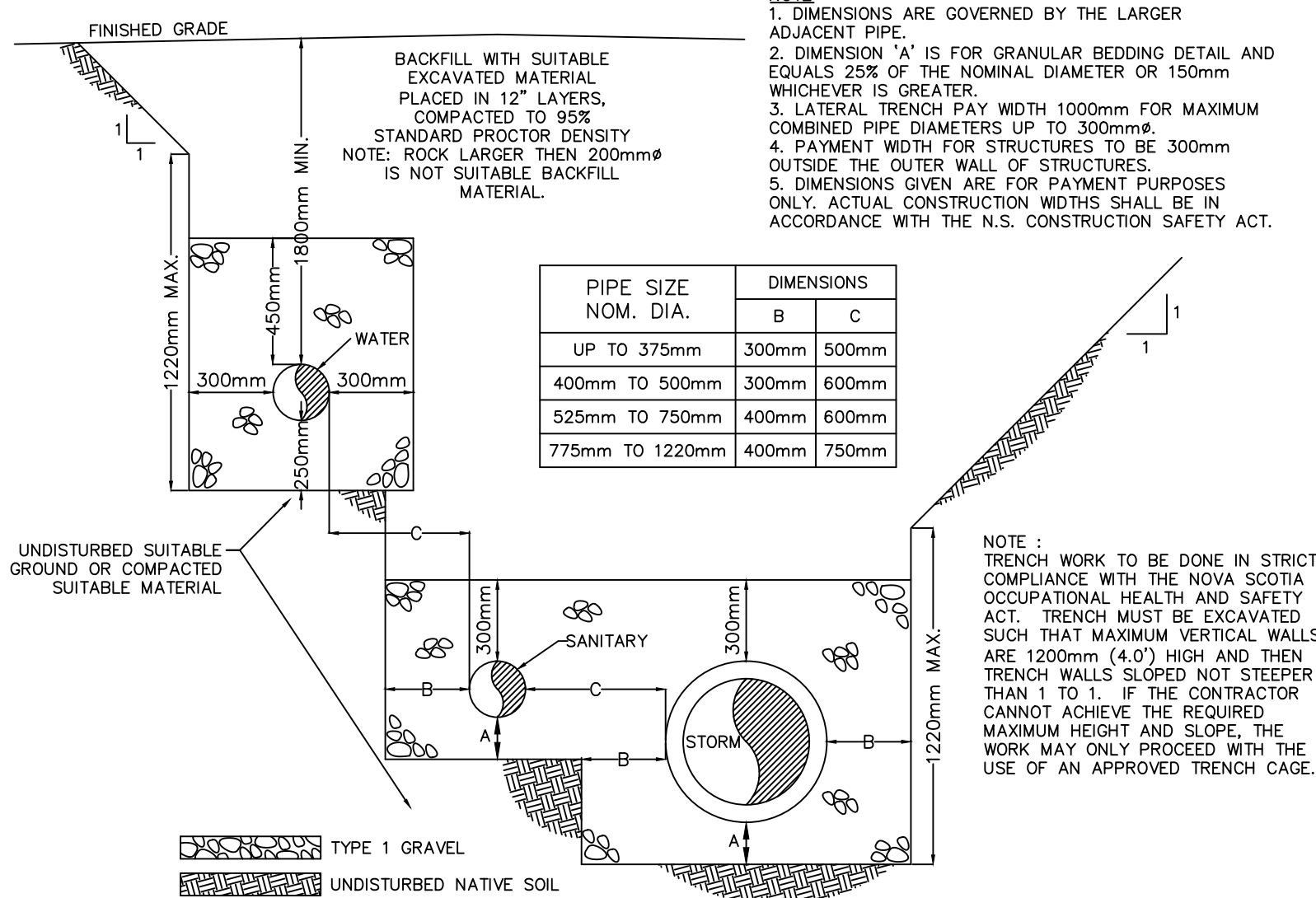
PIPE

SANITARY GRAVITY MAIN	PVC DR35, DIAMETER AS INDICATED
SANITARY LATERALS	125mmØ PVC DR28 (WHITE)
STORM MAIN	CSA HDPE B182.8, DIAMETER AS INDICATED
CATCH BASIN LEADS	200mmØ CSA HDPE B182.8 UNLESS OTHERWISE NOTED. CATCH BASINS TO BE INSTALLED IN 50mm LOCAL DEPRESSION.
STORM LATERALS	100mmØ PVC DR35 (GREEN)
WATER	PVC DR18, DIAMETER AS INDICATED.
WATER LATERALS	19mmØ MUNIPEX WATER LATERAL
HYDRANT LEAD	150mmØ PVC DR18

SPECIFICATIONS

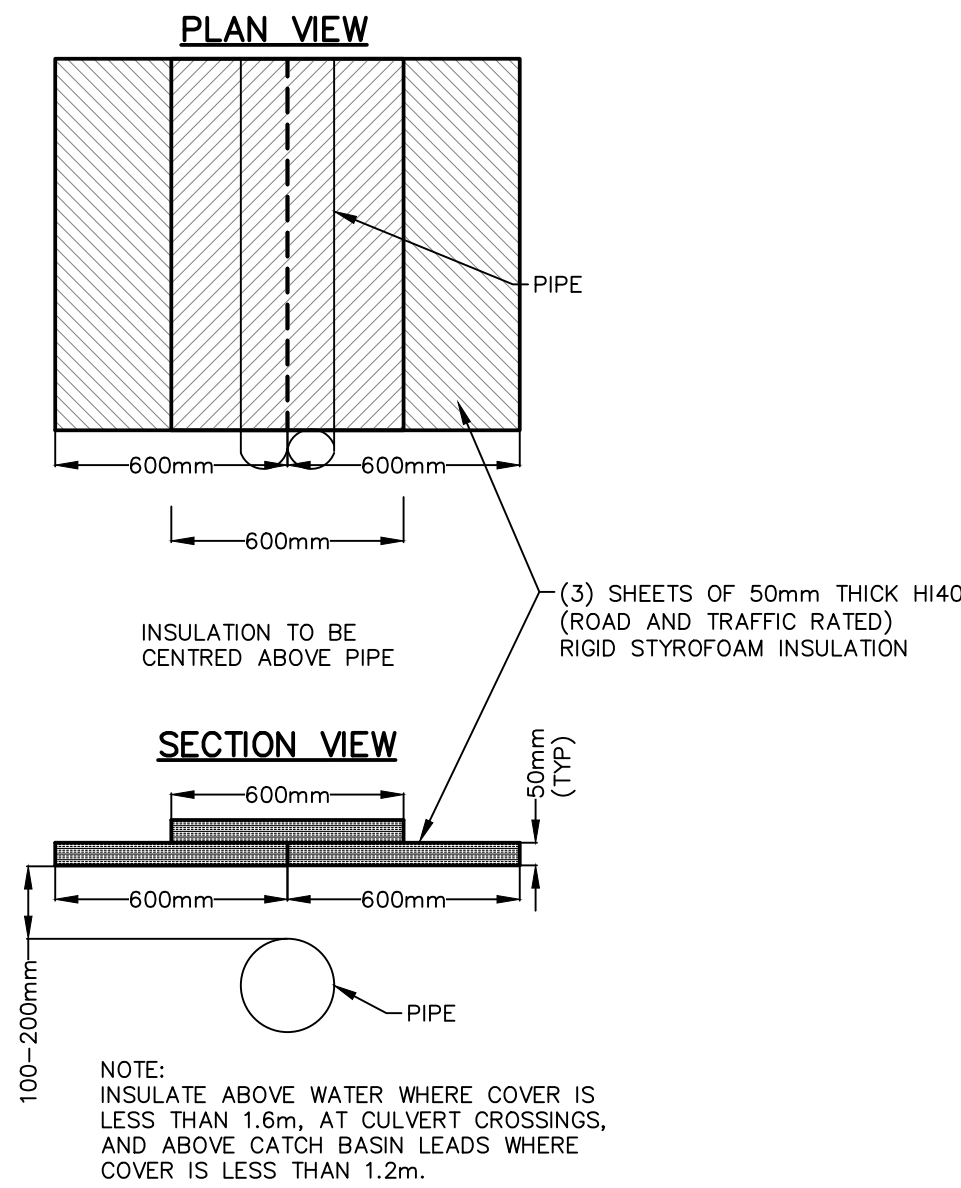
TYPICAL TRENCH DETAIL

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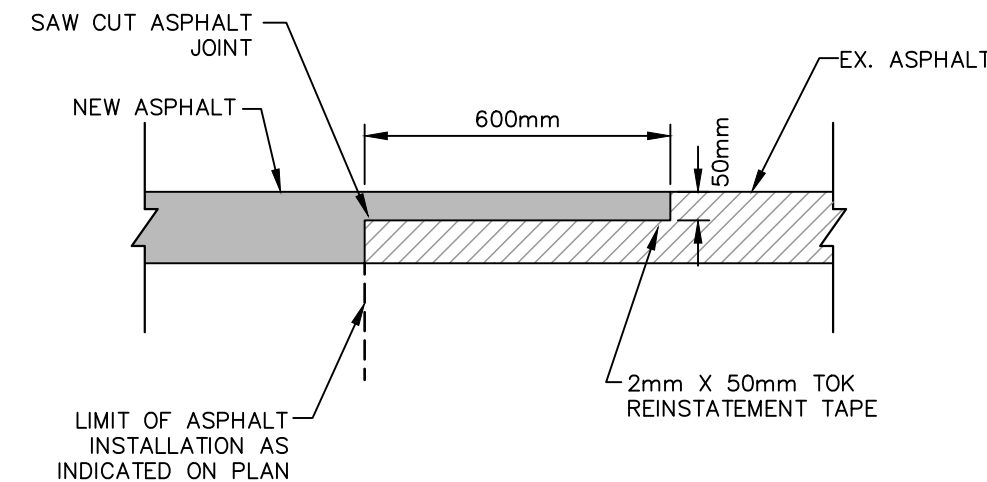
TYPICAL INSULATION DETAIL

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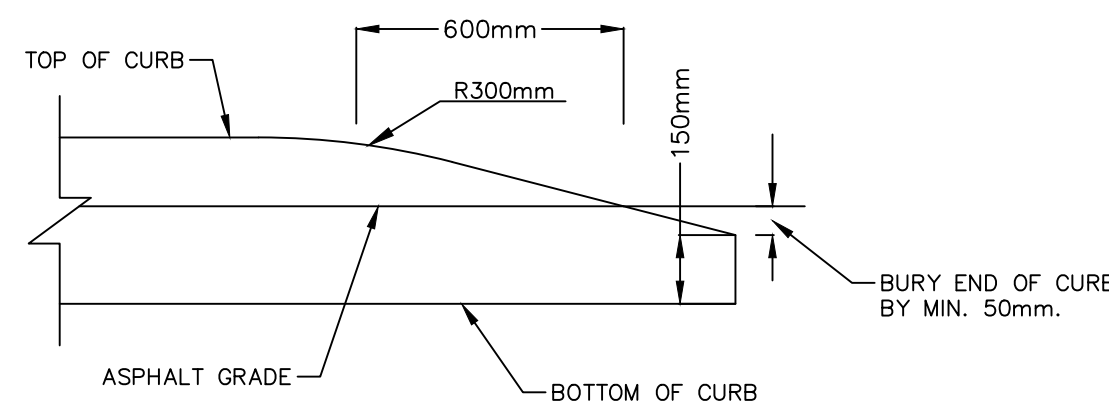
ASPHALT BLEND DETAIL

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CURB TERMINATION DETAIL

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TYPICAL ROAD CROSS SECTION

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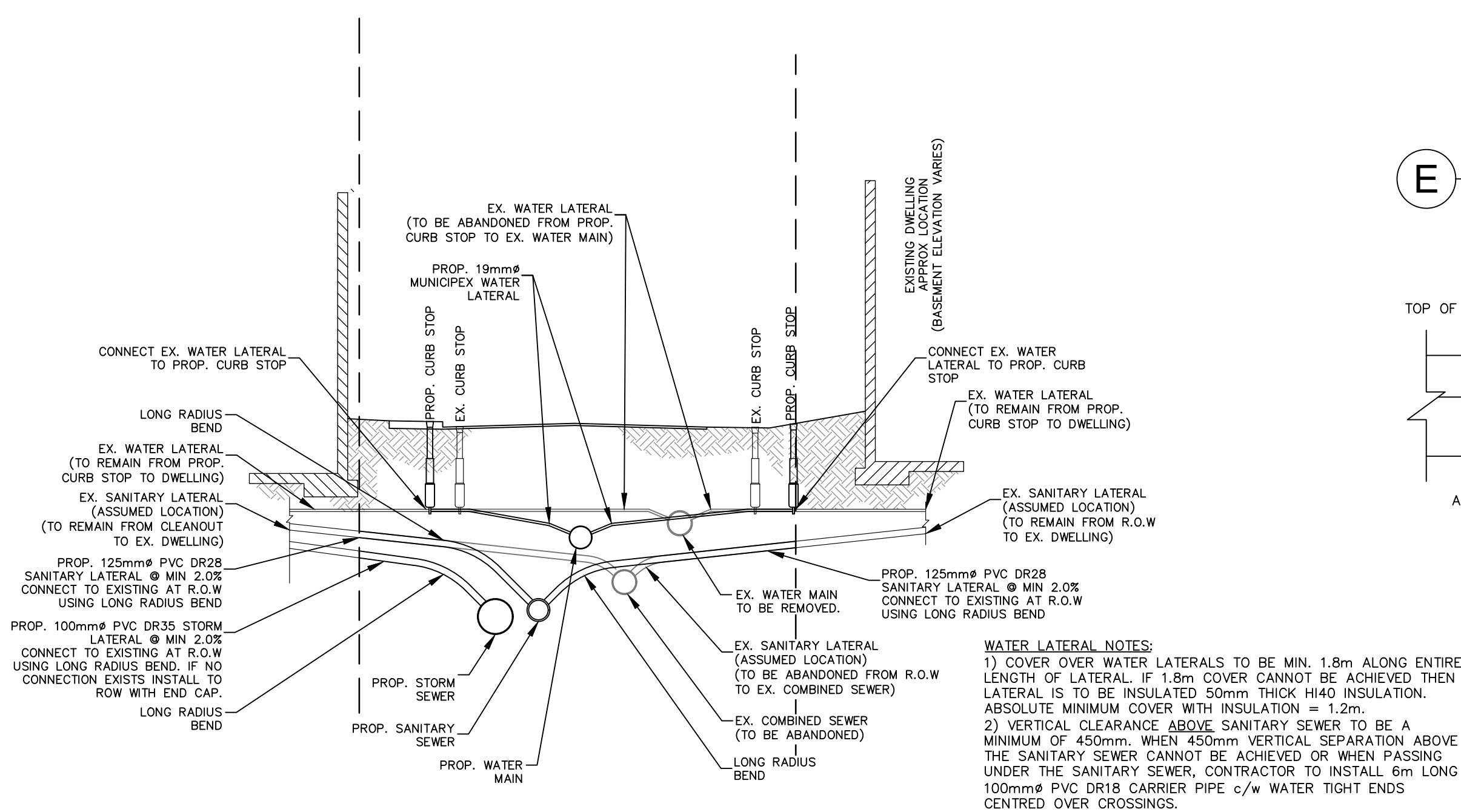
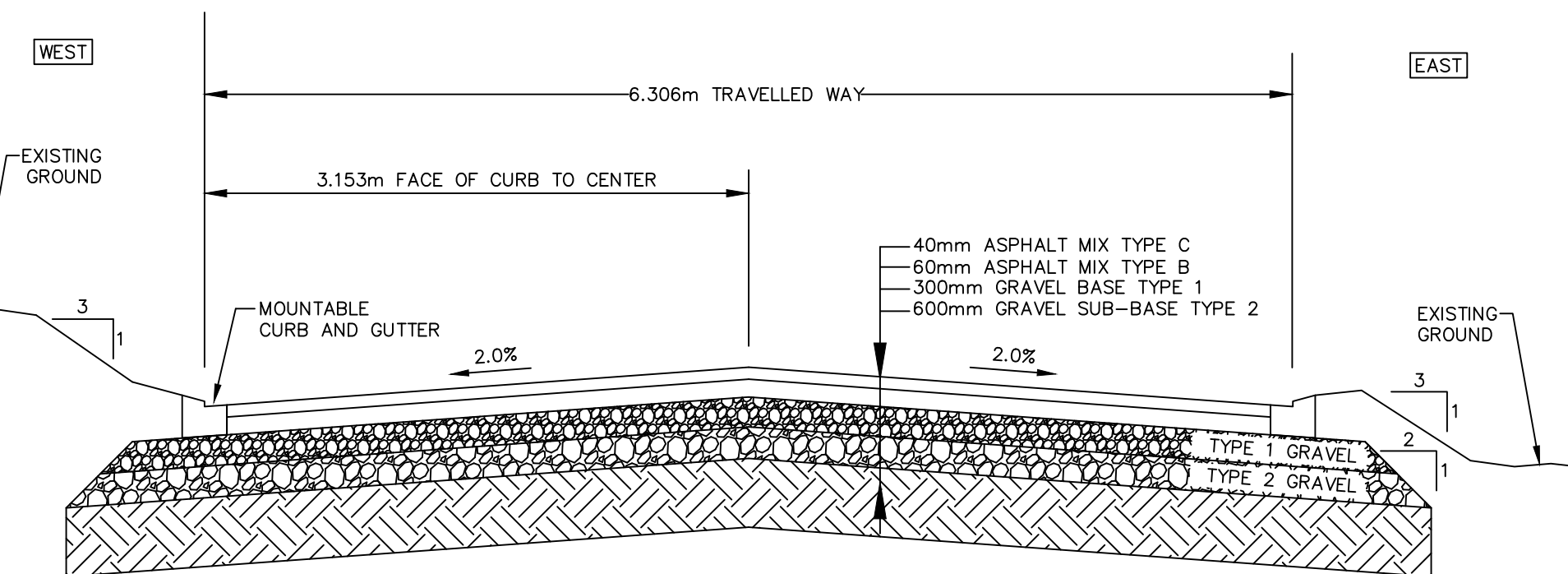


Diagram illustrating the cross-section of a road and shoulder. The road width is 6.916m (Travelled Way). The shoulder width is 1.5m. The concrete sidewalk width is 1.8m. The total width is 10.216m. The road surface is 40mm Asphalt Mix Type C, 60mm Asphalt Mix Type B, 300mm Gravel Base Type 1, and 600mm Gravel Sub-base Type 2. The shoulder is 3.458m from the curb face to the center. The road has a 2.0% slope. The shoulder has a 2.0% slope. The sidewalk has a 2.0% slope. The diagram also shows a standard curb and gutter, hydroseed, and a 3:1 slope on the right side.

(B) TYPICAL ROADWAY SECTION - PLEASANT HILL



(C) TYPICAL ROADWAY SECTION - LEWIS STREET

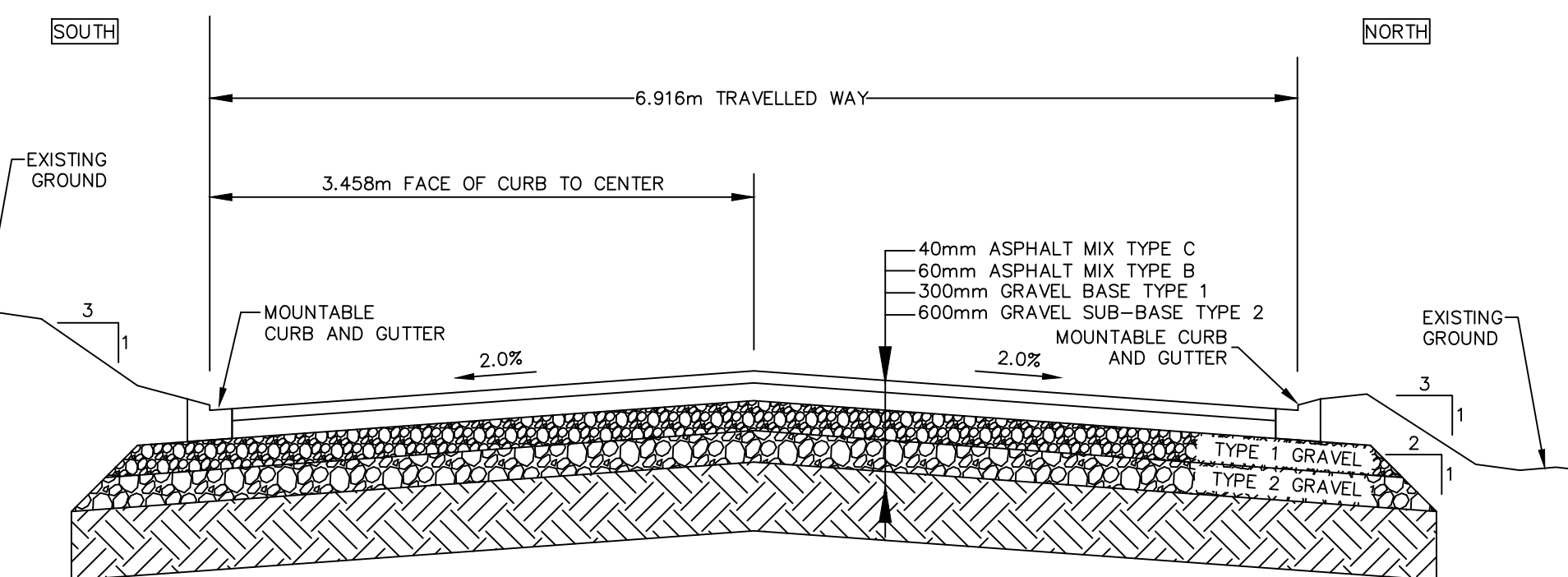
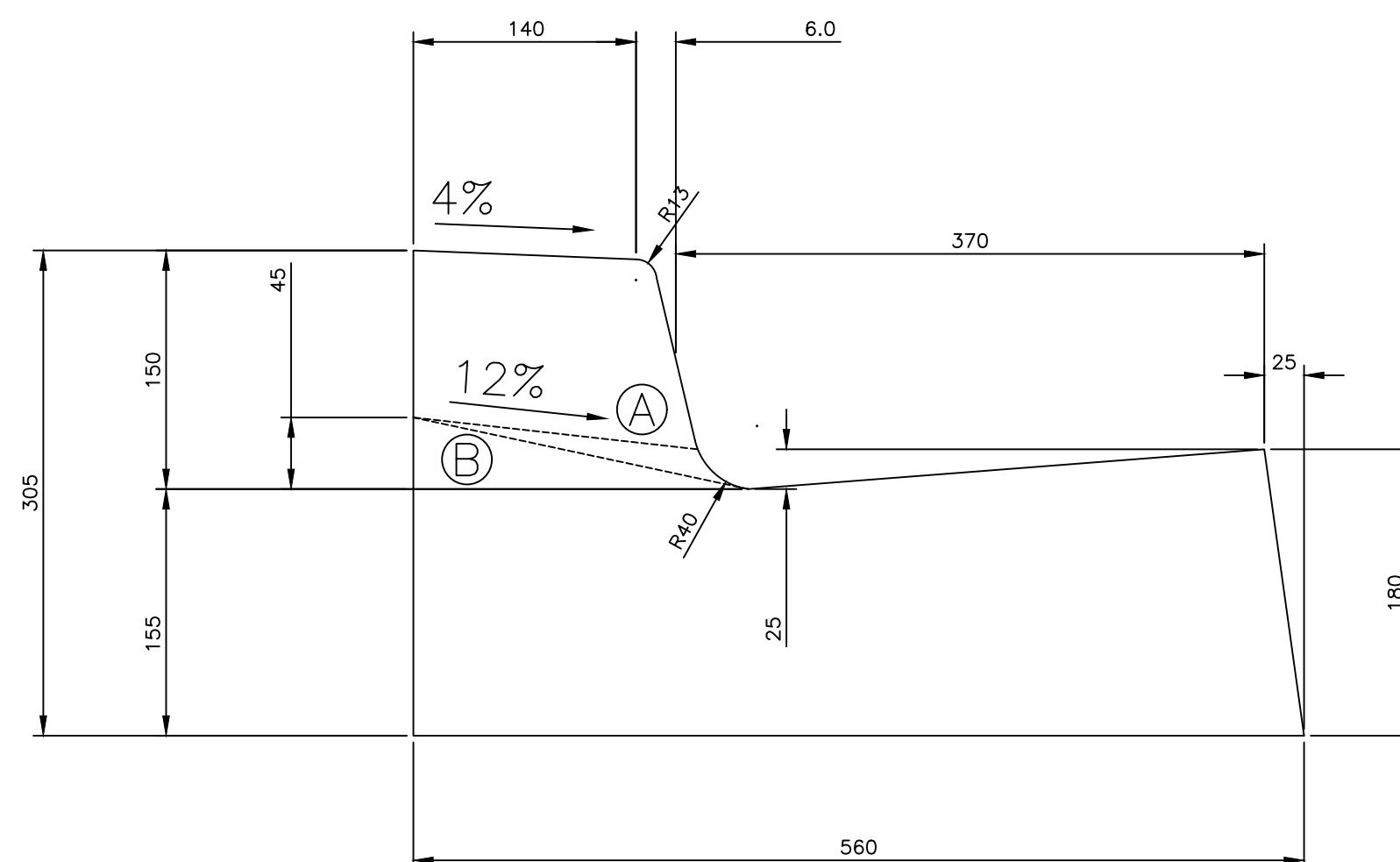


Figure 1: Typical cross-section of a concrete curb and gutter. The diagram shows a concrete curb with a top width of 150mm and a height of 228mm. The curb face is 155mm high. A reverse gutter is shown on top of the curb, with a width of 25mm. The gutter is sloped away from the curb. The total width of the curb and gutter assembly is 560mm. The gutter is labeled "REVERSE GUTTER (WHERE ASPHALT IS SLOPING AWAY FROM CURB)".

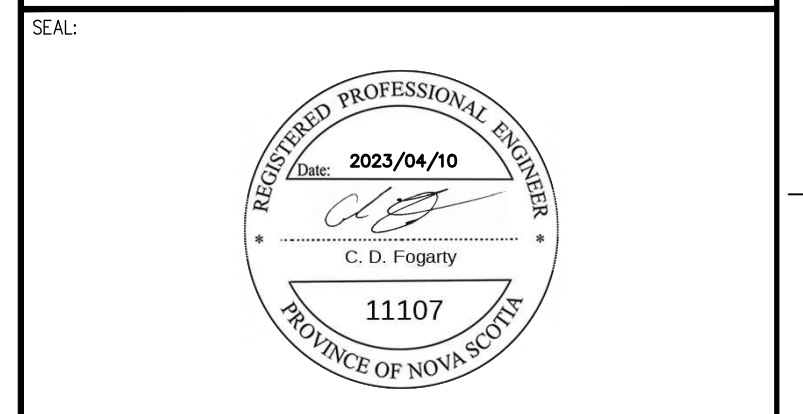
NOTES:

1. DASHED LINE "A" INDICATES CURB AT DRIVEWAYS.
2. DASHED LINE "B" INDICATES CURB AT PEDESTRIAN RAMPS.



The diagram illustrates a cross-section of a proposed road layout. Key dimensions and features include:

- 6.916m TRAVELLED WAY**: The total width of the road.
- 3.458m FACE OF CURB TO CENTER**: The distance from the centerline to the face of the curb.
- EXISTING GROUND**: The current ground level on both sides of the road.
- PAVEMENT LAYERS**:
 - 40mm ASPHALT MIX TYPE C
 - 60mm ASPHALT MIX TYPE B
 - 300mm GRAVEL BASE TYPE 1
 - 600mm GRAVEL SUB-BASE TYPE 2
- 2.0% SLOPE**: The proposed road grade on both sides of the centerline.
- MOUNTABLE CURB AND GUTTER**: Located on both sides of the road.
- TYPE 1 GRAVEL** and **TYPE 2 GRAVEL**: Sub-layers of the gravel base.

[illegible]

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U 2023/04/03		ISSUED FOR TENDER	
NO. DATE YYYY/MM/DD		DESCRIPTION	
PROJECT NUMBER: 181-01036		DATE: (YYYY/MM/DD) 2023/04/03	
ORIGINAL SCALE: HORIZONTAL: N/A		VERTICAL: N/A	
DESIGNED BY: D. HOVEY		IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
CHECKED BY: A. MILLIGAN		DRAWN BY: D. HOVEY	
		APPROVED BY: C. FOGARTY	
		 25mm	



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CLIENT:

TOWN OF STEWIACKE

CLIENT REF. #:	
PROJECT:	

STREET REFURBISHMENTS

STEWIACKE, N.S.

TITLE:

CONSTRUCTION NOTES
& DETAILS 2

SHEET NUMBER:	
09	
SHEET #:	09 OF 10
ISSUE:	REV #
ISSUED FOR TENDER	0
DATE OF: 2023/04/03	

A SURFACE REINSTATEMENT DETAILS

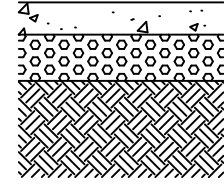
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NOTES:

1. PRIOR TO PLACEMENT OF THE PAVEMENT AND SUB-BASE GRAVELS, THE ENTIRE SUBGRADE SHOULD BE PROOF-ROLLED UNDER THE SUPERVISION OF GEOTECHNICAL PERSONNEL. ANY AREAS SHOWING EXCESSIVE DEFLECTION SHOULD BE EXCAVATED AND REPLACED WITH COMPACTED GRANULAR MATERIAL.

CONCRETE SIDEWALK

- 100mm - CONCRETE
150mm - BASE GRAVEL, TYPE 1
SUBGRADE COMPACTED AS PER GEOTECHNICAL REQUIREMENTS



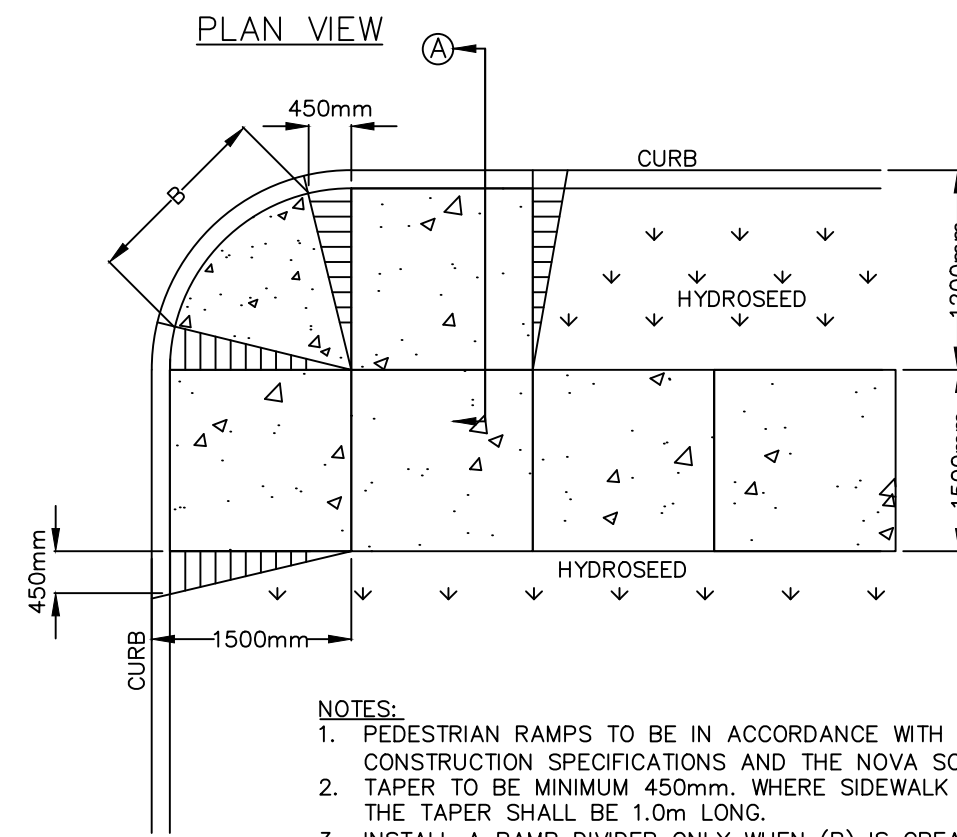
TOPSOIL AND HYDROSEED

- APPROVED HYDROSEED
150mm - TOPSOIL



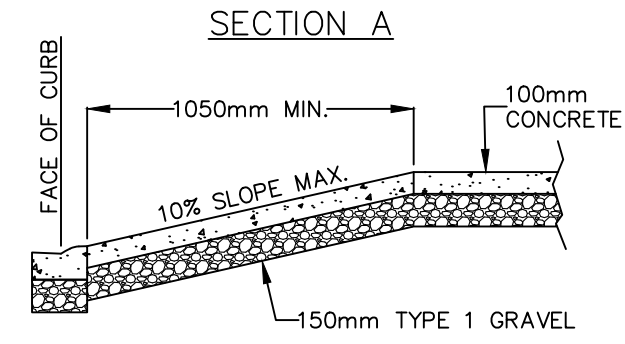
B PEDESTRIAN RAMP DETAIL

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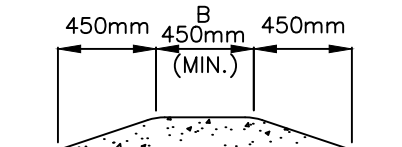


NOTES:

1. PEDESTRIAN RAMPS TO BE IN ACCORDANCE WITH THE NSTIR HIGHWAY CONSTRUCTION SPECIFICATIONS AND THE NOVA SCOTIA 'BLUE BOOK'.
2. TAPER TO BE MINIMUM 450mm, WHERE SIDEWALK ABUTS THE CURB THE TAPER SHALL BE 1.0m LONG.
3. INSTALL A RAMP DIVIDER ONLY WHEN (B) IS GREATER THAN 450mm.

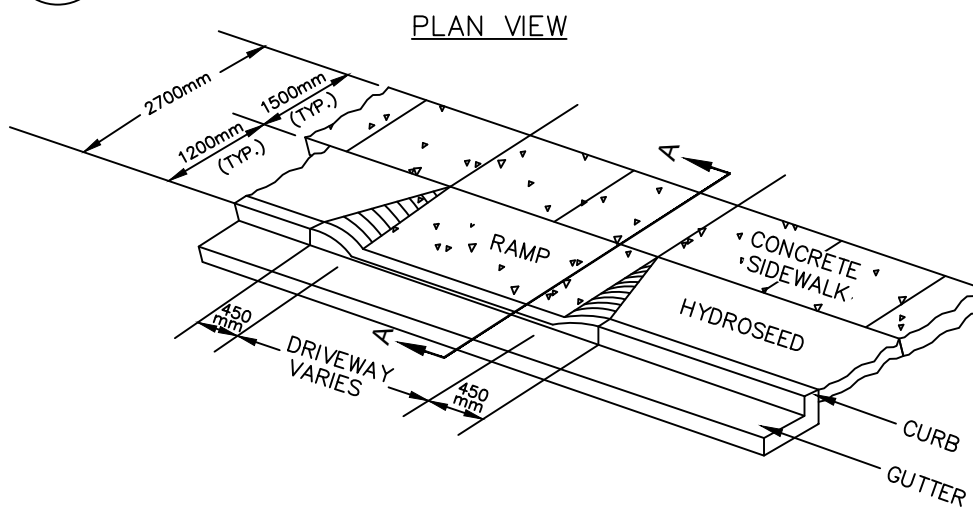


PEDESTRIAN RAMP DIVIDER VIEW

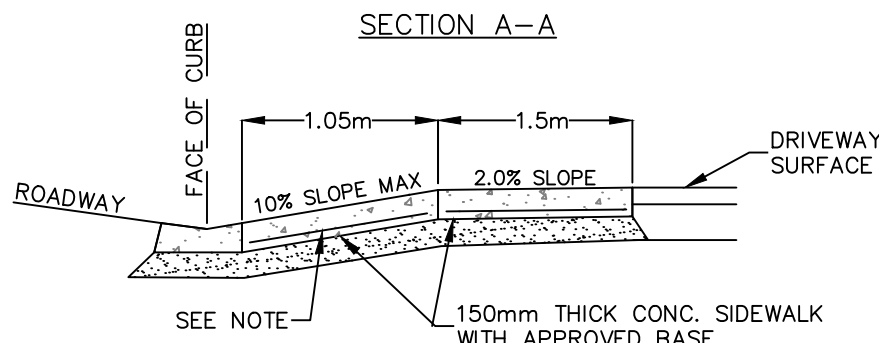


C DRIVEWAY RAMP DETAIL

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SECTION A-A

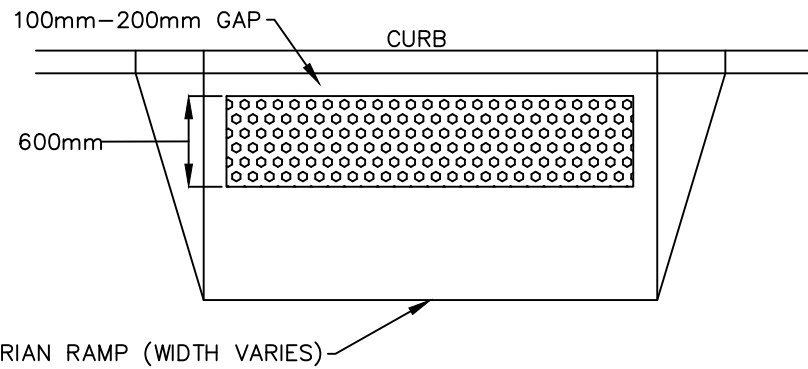


NOTE:

- FOR COMMERCIAL AND INDUSTRIAL DRIVEWAYS
PLACE 150 X 150 - M.W. 18.7 X M.W. 18.7
50mm FROM BOTTOM OF CONCRETE
RAMP AND SIDEWALK.

D TACTILE PLATE DETAIL

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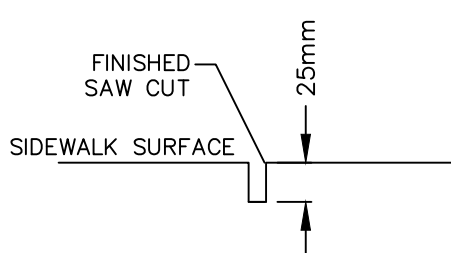


TACTILE SURFACE NOTES:

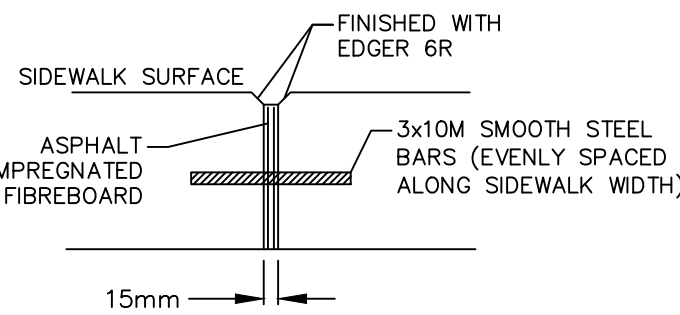
1. NATURAL CAST IRON ATTENTION TWSI (TACTILE WALKING SURFACE INDICATOR) PLATES TO CSA B651.
1. INSTALLATION TO BE DONE IN ACCORDANCE TO MANUFACTURER'S INSTALLATION PROCEDURES.
2. ALL CONCRETE TO BE MINIMUM 35 MPa.
3. SIZE AND SHAPE OF PLATES TO MANUFACTURER'S SPECIFICATIONS.
4. MAXIMUM GAP BETWEEN PLATES AND START OF TAPER TO BE 100mm.
5. INSTALL TOP OF BASE PLATES (BOTTOM OF DOMES) LEVEL WITH CONCRETE RAMP.
6. INSTALL RADIUS PLATES WHERE CURB HAS A RADIUS.

F CONCRETE SIDEWALK JOINT DETAILS

NTS



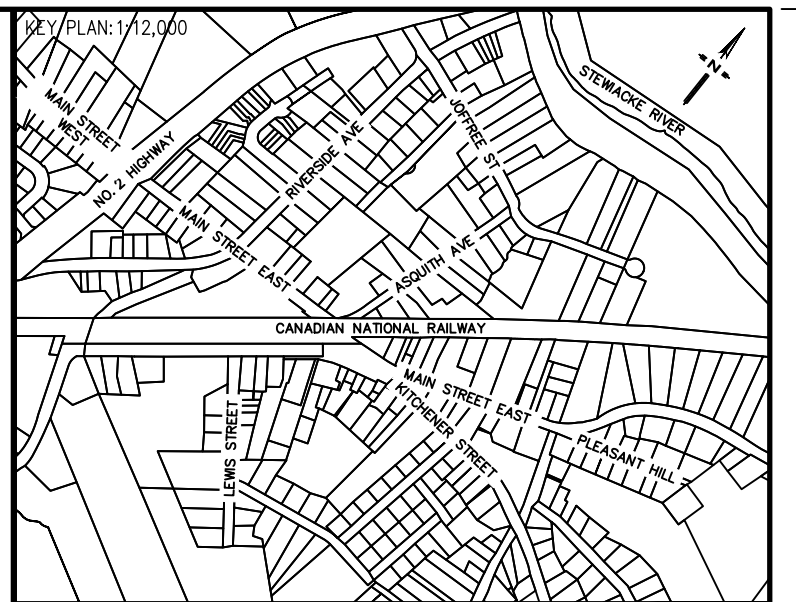
CONTROL JOINT



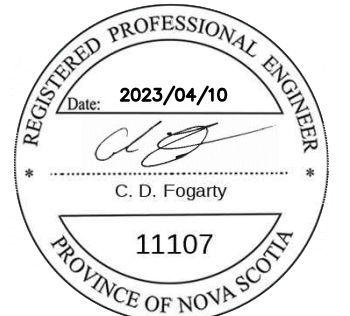
EXPANSION JOINT

NOTES:

1. EXPANSION JOINTS TO BE SPACED EVERY 50m.
2. CONTROL JOINTS TO BE SPACED EVERY 1.5m.
3. GRAVEL BASE TO EXTEND 150mm BEYOND EDGE OF SIDEWALK CONCRETE.
4. CONTROL JOINTS TO BE SAW CUT.
5. EXPANSION JOINT BARS ARE TO BE GREASED ON ONE SIDE OF THE JOINT.
6. DURING CONSECUTIVE POURS, THE END OF EACH POUR IS TO OCCUR AT AN EXPANSION JOINT.



SEAL:



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CLIENT:

TOWN OF STEWACKE

CLIENT REF. #:

PROJECT:

STREET REFURBISHMENTS

STEWACKE, N.S.

TITLE:

CONSTRUCTION NOTES
& DETAILS 3

SHEET NUMBER:

10

SHEET #:

10 OF 10

ISSUE:

ISSUED FOR TENDER

DATE OF: 2023/04/03

REV #

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