
TOWN OF KENTVILLE
2019 CAPITAL WORKS - PIPEWORK
CONTRACT #2019-064
KENTVILLE, NS

SET No. _____
SEPTEMBER 2019

ABLE ENGINEERING SERVICES INC.
CONSULTING ENGINEERS

<u>SECTION</u>	<u>TITLE</u>	<u># OF PAGES</u>
00 21 00	Information to Tenderers	4
00 41 43	Form of Tender	5
00 53 43	Form of Agreement	6
00 71 00	Definitions	2
00 73 00	Supplementary Specifications	3
01 10 00	General Requirements	7
01 57 00	Environmental Protection	3
03 30 00	Concrete	7
32 12 16	Asphalt Concrete Paving	3
32 16 00	Walks, Cubs, and Gutters	4
32 98 00	Reinstatement	4
33 31 00	Sanitary Sewers	11
33 39 00	Precast Manholes, Catch Basins, and Structures	6
33 40 00	Storm Sewers and Culverts	9

Town of Kentville 2019 Capital Works - Pipework
Various Locations

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

Engineer: ABLE Engineering Services Inc.
4 Calkin Drive
Kentville, NS B4N 3V7

1. Tender Submission

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

Tender for:

“Town of Kentville 2019 Capital Works – Pipework”

Closing: 2:01pm local time Friday, September 20, 2019 at the Town of Kentville office.

Town of Kentville
Attn: Debra Crowell, Acting CAO
354 Main Street, Kentville, NS B4N 1K6
P: 902-679-2500

2. Safety Certification

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

3. Workers' Compensation

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

4. Tender Opening

- .1 Tenders will be opened on Friday, September 20, 2019 at 2:05pm at the Town Office. Opening will be public.
- .2 Tender amendments will be disclosed at public openings.

5. Document Fee

- .1 **Firms must register with ABLE or their tender will be considered invalid.** To receive full tender documents contact 902-678-2774 or email d.bell@ableinc.ca and tender documents will be issued in digital format. Paper documents are also available for a fee of \$250.00 payable to ABLE Engineering Services Inc.

6. Accuracy of Referencing

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

7. Conditions of Tendering

- .1 Take full cognizance of content of all Contract Documents in preparation of tender. Refer to Section 00 41 43 – Tender Form, Subsection 3.9 for a complete list of Contract Documents.

8. Tenderers to Investigate

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

9. Clarification and Addenda

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

10. Preparation of Tender

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

11. Taxes .1 Include all taxes in prices except Harmonized Sales Tax (HST).

12. Tender Security

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

13. Contract Security

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

14. Insurance

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

15. Form of Agreement

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

16. Return of Tender Security

- .1 Tender security will be returned to:
- .1 All except the three lowest acceptable tenderers within five (5) Working Days of tender opening.
 - .2 Two (2) remaining unsuccessful tenderers within ten (10) Working Days of date of award.
 - .3 Successful tenderer following receipt by Owner of executed agreement, specified contract security, and insurance documents.

17. Amendment or Withdrawal of Tender

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

18. Offer, Acceptance, Rejection

- .1 The Owner reserves the right to accept or reject any tender and to cancel the tendering process and reject all tenders at any time prior to the award of Contract without incurring any liability to affected tenderers.

ADD:

18. Contingency Allowance

- .1 A contingency allowance is included in Section 00 41 43. This amount covers any cost for extra work as directed by the Engineer which is not included in the items in the Schedule of Quantities and Unit Prices.

19. On-Site Materials

- .1 On-site materials will only be paid for as they are incorporated in the works.

20. Time .1 Time is considered to be of the essence.

21. Project Schedule

- .1 THE PROJECT SHALL BE COMPLETED ON OR BEFORE DECEMBER 31, 2019.**

22. Safety .1 Safety shall be of primary importance at all times and the current safety regulations of the Nova Scotia "Occupational Health and Safety Act" must be adhered to at all times.

23. Procurement Policy

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

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

ADD:

24. As-built Records\Drawings

- .1 Record information is the responsibility of the contractor. The contractor will provide ABLE Engineering Services with coordinate file (ATS77 – MTM5) containing survey quality 3D points for every fixture, including valves, bends, tees, services at main and property line, MH tops and inverts, hydrant tops, centerline, shoulder, and ditch points (where applicable). Main lines are to be located at a minimum measurement of 100 feet.**

4. SCHEDULE OF QUANTITIES AND UNIT PRICES

ITEM NO.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
----------	-------------	-----------------	--------------------	------------	-------------

1.0 Park Street Sidewalk Extension

1. Concrete Curb & Sidewalk

Remove, topsoil, organics,
 place and compact subgrade gravel.

.1	Curb & Gutter (Concrete)	In ft	1200		
.2	Concrete Sidewalk (4" thick)	sy	500		
.3	Concrete Sidewalk (6" thick c/w 6"x6", 6 Ga WWF)	sy	170		
.4	12" dia HDPE Pipe	In ft	450		
.5	15" dia HDPE Pipe	In ft	700		
.6	42" dia Manhole c/c gaskets & R-10 covers	ea	2		
.7	24" x 24" x 48" Catchbasin C/W 401 grates	ea	1		
.8	Structural fill	cy	700		
.9	Supply and place 8" minus shot rock	Tonnes	400		
.10	Sod c/w 4" topsoil between curb and sidewalk ONLY	sy	800		

NOTE: Sod and topsoil behind sidewalk is considered restoration

TOTAL _____

2.0 East Main Street Sidewalk Renewal

1. Concrete Retaining Wall & Sidewalk

Remove, topsoil, organics,
 place and compact subgrade gravel.

.1	Poured in place Concrete retaining wall	In ft	190		
.2	Concrete Sidewalk (6" thick c/w 6"x6", 6 Ga WWF)	sy	150		
.3	Pre cast concrete steps	ea	2		
.4	Remove, repair and re-install handrail	LS	1		
.5	Sod c/w 4" topsoil between curb and sidewalk ONLY	sy	100		

TOTAL _____

3.0 Belcher Street Sanitary Sewer

Supply & installation of the following items including all excavation, bedding, insulation, pipe laying, backfill & compaction. All PATCH PAVING, and all else to complete the work as specified and as shown on Y2019-064-02

.1	8" dia DR35 PVC Pipe	In ft	480		
.2	12" dia HDPE Pipe	In ft	30		
.3	42" dia Manhole c/c gaskets & R-10 covers	ea	1		
.5	Connect to existing manhole (cut hole as required)	ea	1		
.6	Re-connect existing laterals to property line	ea	1		
.7	4" dia DR35 PVC Pipe	In ft	35		

TOTAL _____

4. SCHEDULE OF QUANTITIES AND UNIT PRICES

ITEM NO.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
----------	-------------	-----------------	--------------------	------------	-------------

4.0 Business Park Stormwater Ditch Renewal (Donald Hiltz Road)

Reshape existing ditch, excavate unsuitable soil place filter fabric on side ditch side slope and backfill with 8" minus shot rock.

.1	Reshape ditch	In ft	2500		
.2	Supply and install filter fabric	sy	800		
.3	Supply and place 8" minus shot rock	Tonnes	400		
.4	Supply and place ditch plugs	ea	8		
.5	36" dia HDPE Culvert Pipe	In ft	50		

TOTAL

5.0 Prospect Sanitary Sewer

Supply & installation of the following items including all excavation, bedding, pipe laying, backfill & compaction. All PATCH PAVING, and all else to complete the work as specified and as shown on Y2019-064-01

.1	8" dia DR35 PVC Pipe	In ft	825		
.2	10" dia DR35 PVC Pipe	In ft	20		
.3	42" dia Manhole c/c gaskets & R-10 covers	ea	3		
.4	48" dia Exterior drop Manhole c/c gaskets & R - 10	ea	1		
.5	Connect to existing manhole (cut hole as required)	ea	2		
.6	8" x 4" tees	ea	12		
.7	Re-connect existing laterals to property line	ea	12		
.8	4" dia DR35 PVC Pipe	In ft	420		

TOTAL

CONTRACT SUMMARY

1.0 Park Street Sidewlk Extension

2.0 East Main Street Sidewalk Renewal

3.0 Belcher Street Sanitary Sewer

4.0 Business Park Stormwater Ditch Renewal

5.0 Prospect Sanitary Sewer

CONTINGENCY

\$25,000.00

Subtotal

15% HST

TOTAL TENDERED PRICE

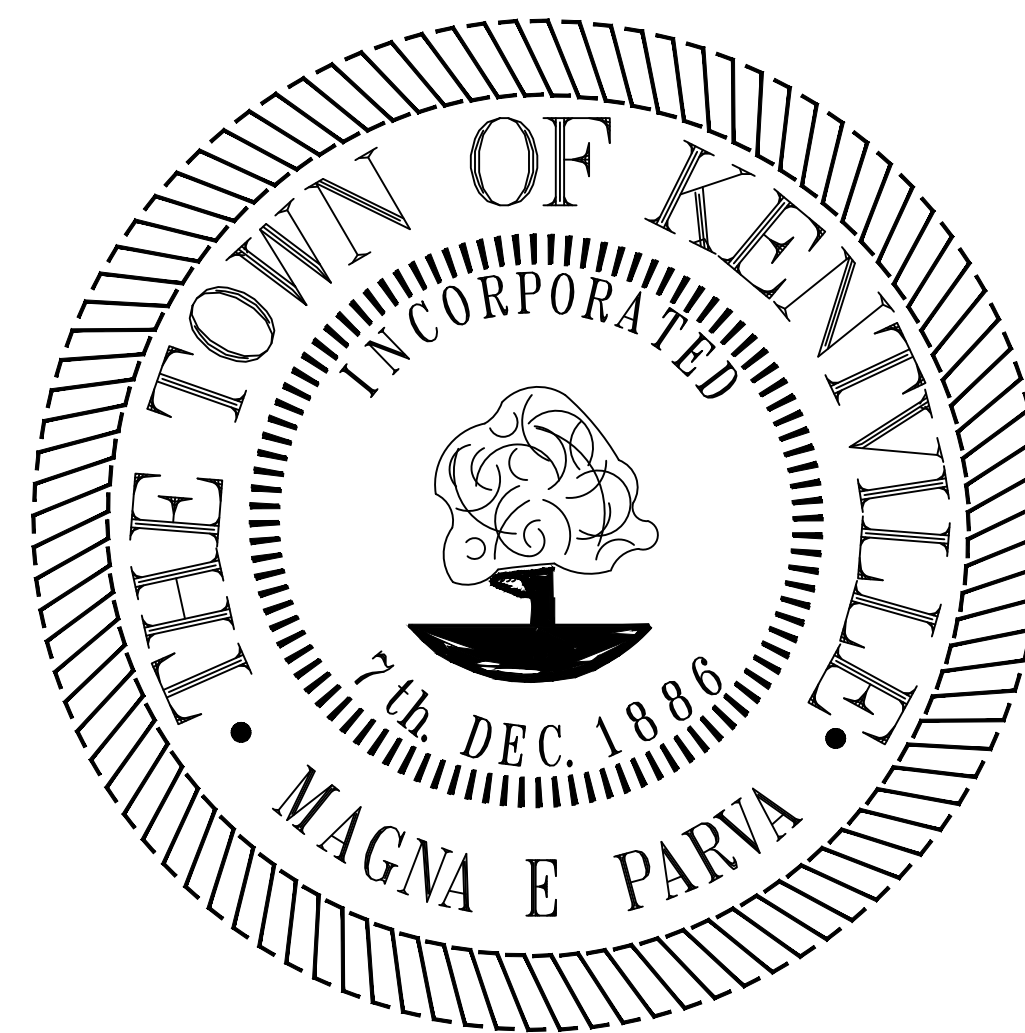
NOT FOR TENDER

TOWN OF KENTVILLE

2019

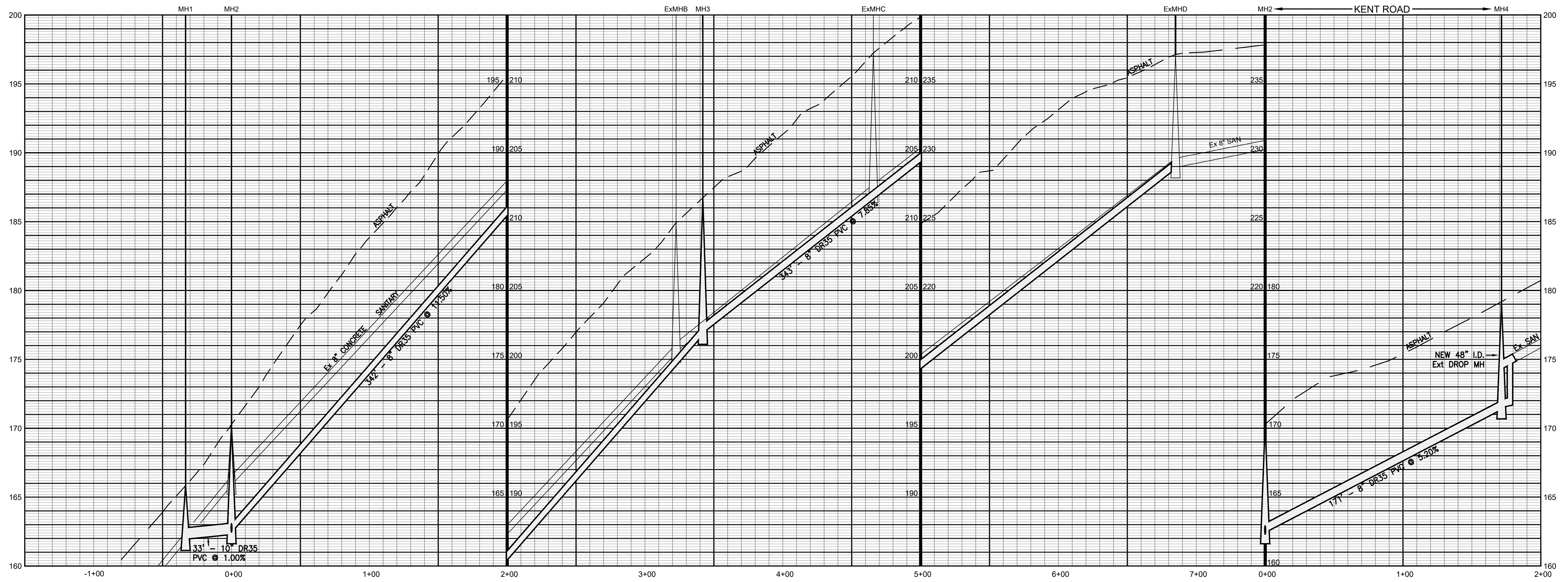
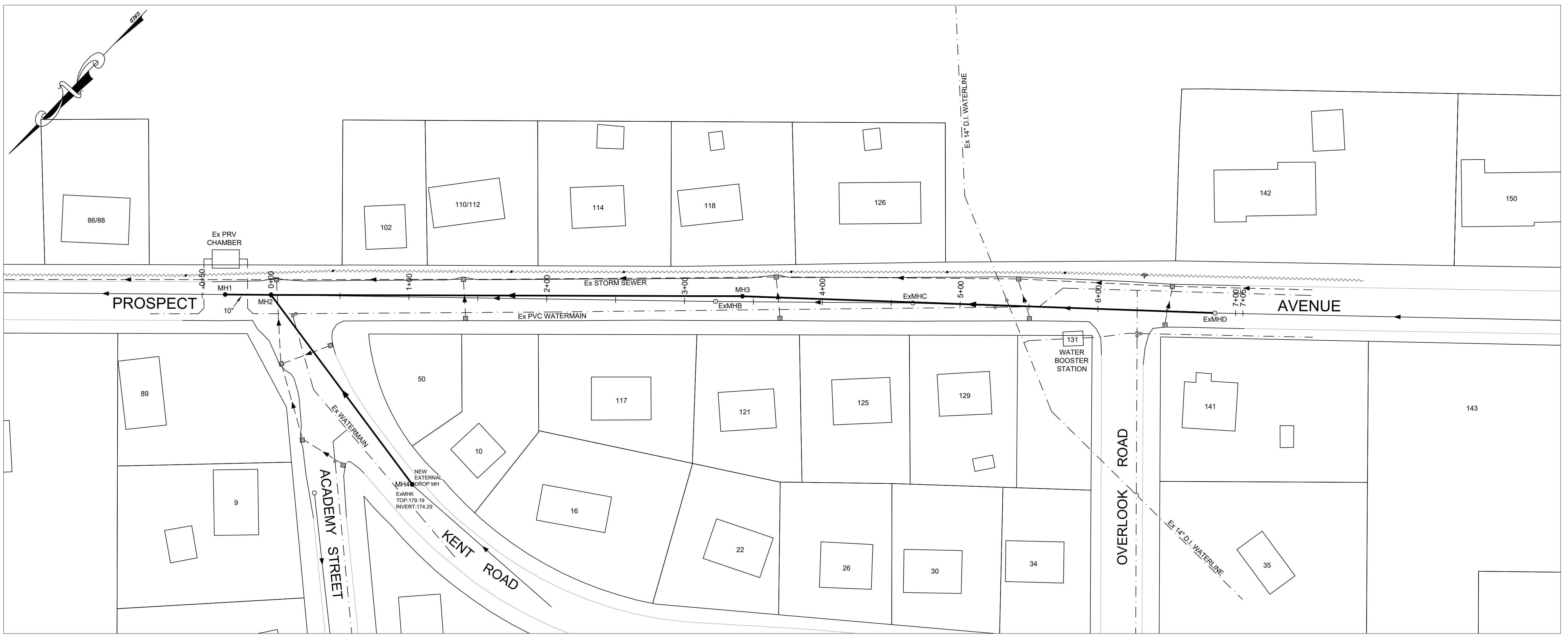
CAPITAL WORKS PIPEWORK

CONTRACT # 2019-064

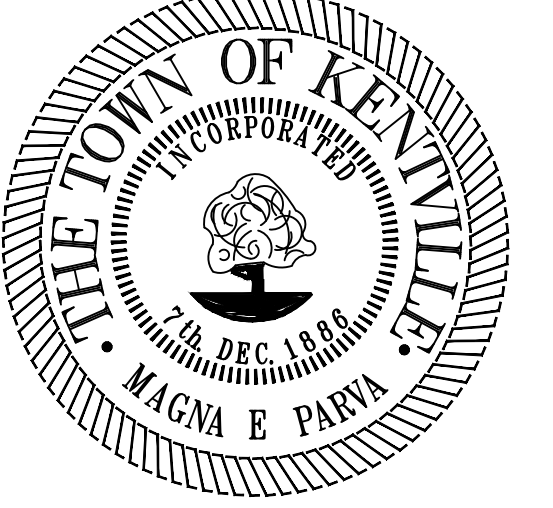


LEGEND

- NEW HYDRANT
- EXISTING HYDRANT
- NEW VALVE
- EXISTING VALVE
- CAPPED OR PLUGGED
- EXISTING MANHOLE
- NEW MANHOLE
- STORM MANHOLE
- CATCH BASIN
- EXISTING CATCH BASIN
- ★ LIGHT STANDARD
- ▲ DIRECTION OF FLOW
- ▲ NOVA SCOTIA CONTROL MONUMENT



FINISHED ELEV										
STATION	-0+33	0+00		3+42		6+85	0+00		1+71	
SANITARY INVERT	161.80	161.95	162.28	162.43	201.76	201.91	228.83	228.98	162.28	162.43



GENERAL NOTES:

- THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
- STANDARD & SUPPLEMENTAL SPECIFICATIONS FOR MUNICIPAL SERVICES (NSCEA & NSRBA)
- EROSION & SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES (NSE)
- SEPARATION DISTANCES, AS OUTLINED IN THE POLICY ON INSTALLATION OF GRAVITY SEWERS, SEWAGE FORCEMAINS AND WATERMAINS IN COMBINED AND SEPARATE TRENCHES (NSE)
- ALL ELEVATIONS ARE IN FEET TO CANADIAN GEODETIC DATUM USING NSCM No. 8502
- UNDERGROUND AND OVERHEAD SERVICES SUCH AS WATER, SEWER, DRAINS, TELEPHONE, ETC., SHOWN ON PLANS ARE APPROXIMATE ONLY.
- THE OWNER OF EXISTING SERVICES IN THE WORK AREA MUST BE NOTIFIED BY THE CONTRACTOR AT LEAST ONE (1) WEEK BEFORE WORK COMMENCES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE WORK AREA, AND ALL EXISTING SERVICES, WHETHER SHOWN ON THE ENGINEER'S PLANS OR NOT, BEFORE EXCAVATING.
- THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE SERVICES AND MAINTAINING ALL EXISTING SERVICES AT ALL TIMES DURING THE CONSTRUCTION PERIOD.
- REMOVE AND REPLACE EXISTING MAILBOXES, FENCES AND SIGNS WHERE NECESSARY, AS DIRECTED BY THE CONSULTANT.
- REINSTATE EXISTING DRIVEWAYS, DITCHES, LAWNS AND ASPHALT SURFACES DAMAGED OR DISTURBED DURING CONSTRUCTION AND REPLACE EXISTING DRIVEWAY CULVERTS IF DISTURBED OR DAMAGED TO THE APPROVAL OF THE CONSULTANT, IN ACCORDANCE WITH THE REQUIREMENTS OF THE NOVA SCOTIA DEPARTMENT OF TRANSPORTATION
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" CLEARANCE BETWEEN WATER MAINS AND ANY INTERSECTING SANITARY OR STORM LINES.



ENGINEER'S STAMP

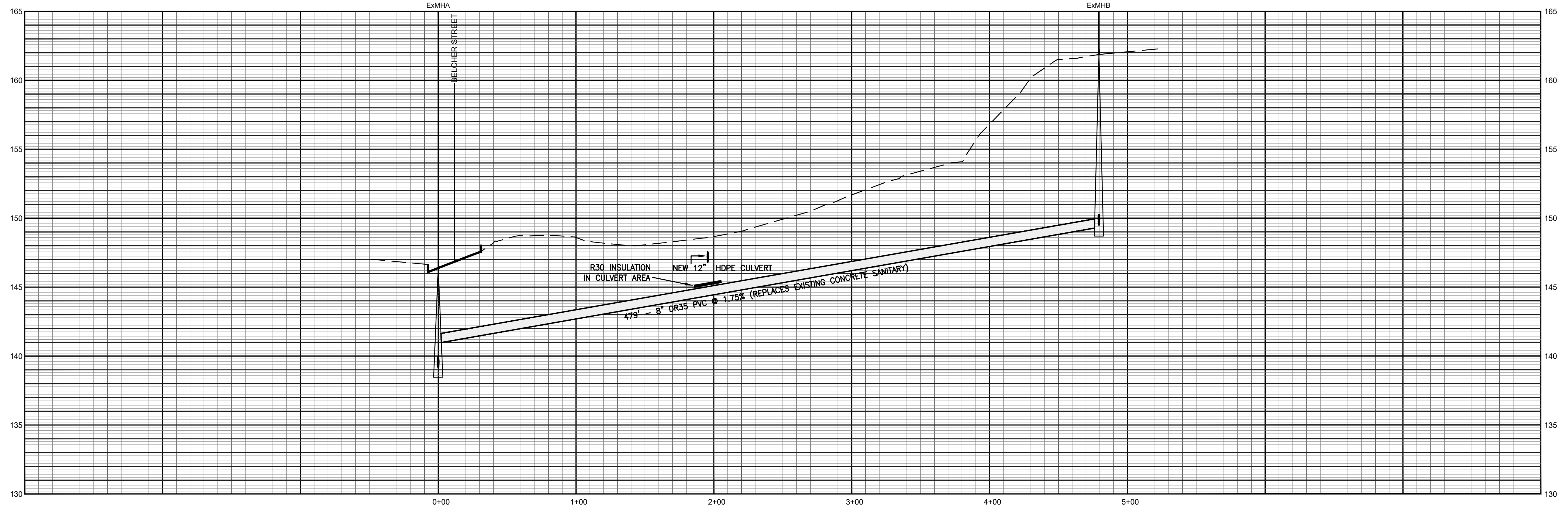
1	APPROVALS	09/05/2019	DAB
No.	DESCRIPTION	DATE	BY

REVISION OR ISSUE

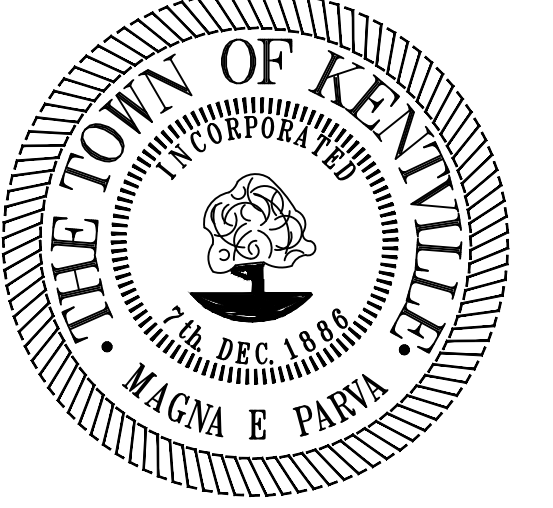


PROJECT:
TOWN OF KENTVILLE
SANITARY REPLACEMENT
 0+00 TO 7+50 & 0+00 TO 2+00
 PROSPECT AVENUE & KENT ROAD
 KENTVILLE, KINGS Co., NS

DATE	SEPT. 5, 2019	REF NO	
DRAWN BY	DAB	CHK	AWD
DWG NO			Y2019-064-01
SCALE	1" = 40' HORIZ 1" = 4' VERT	SHEET	1 of 6



FINISHED ELEV					
STATION	0+00			4+79	
SANITARY INVERT	139.13	140.94		149.37	149.50



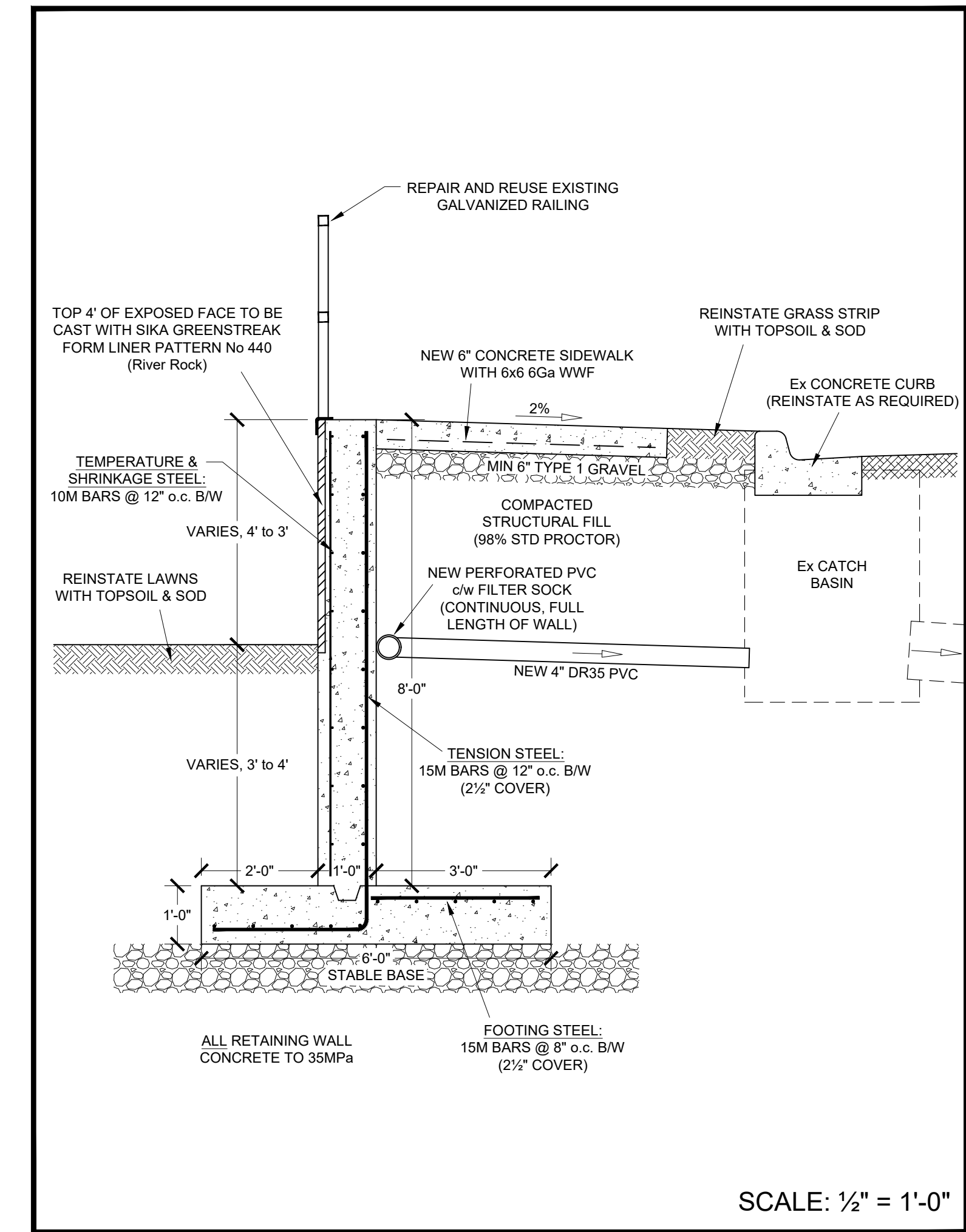
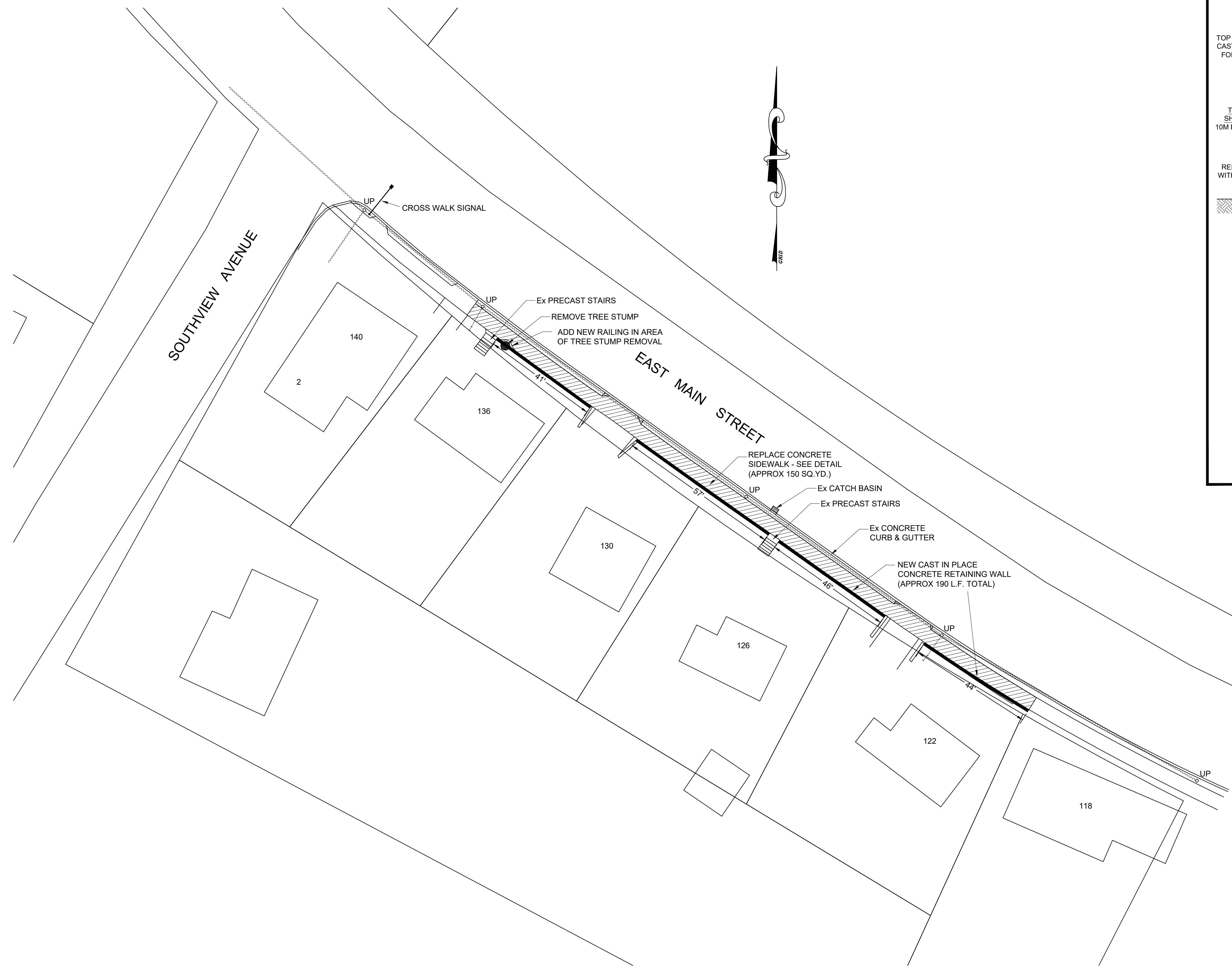
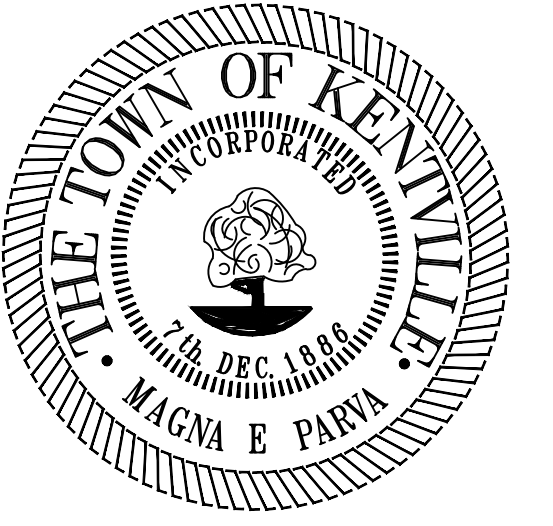
ENGINEER'S STAMP

No.	APPROVALS	DATE	BY
1		09/05/2019	DAB



PROJECT:
TOWN OF KENTVILLE
 SANITARY REPLACEMENT
 0+00 TO 5+00
 PID 55257836 to BELCHER STREET
 KENTVILLE, KINGS Co., NS

DATE	SEPT. 5, 2019	REF NO	
DRAWN BY	DAB	CHK	AWD
DWG NO			Y2019-064-02
SCALE	1" = 40' HORIZ 1" = 4' VERT	SHEET	2 of 6



SCALE: 1/2" = 1'-0"



ENGINEER'S STAMP

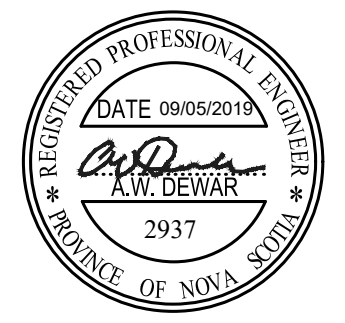
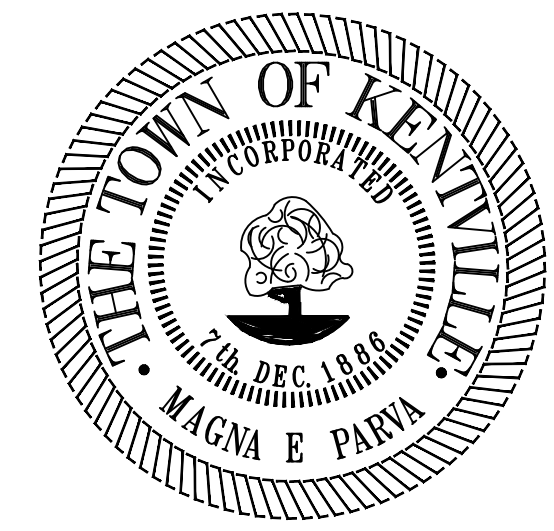
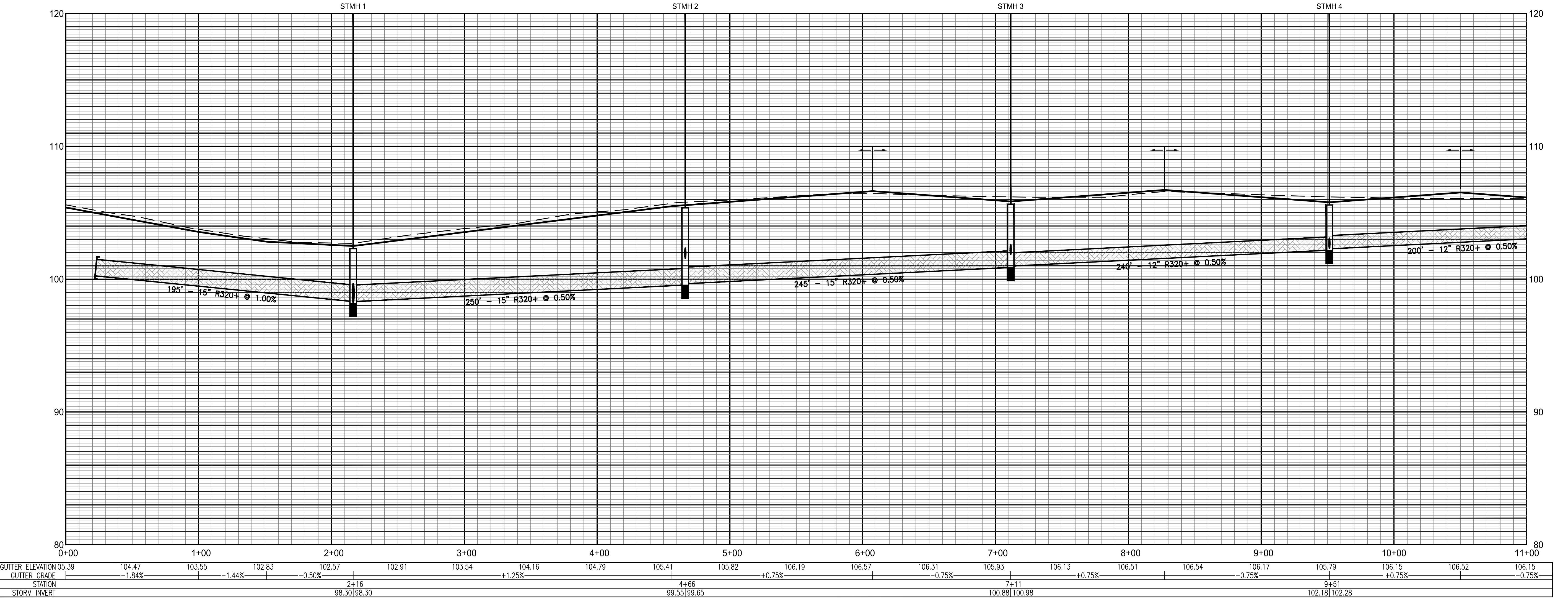
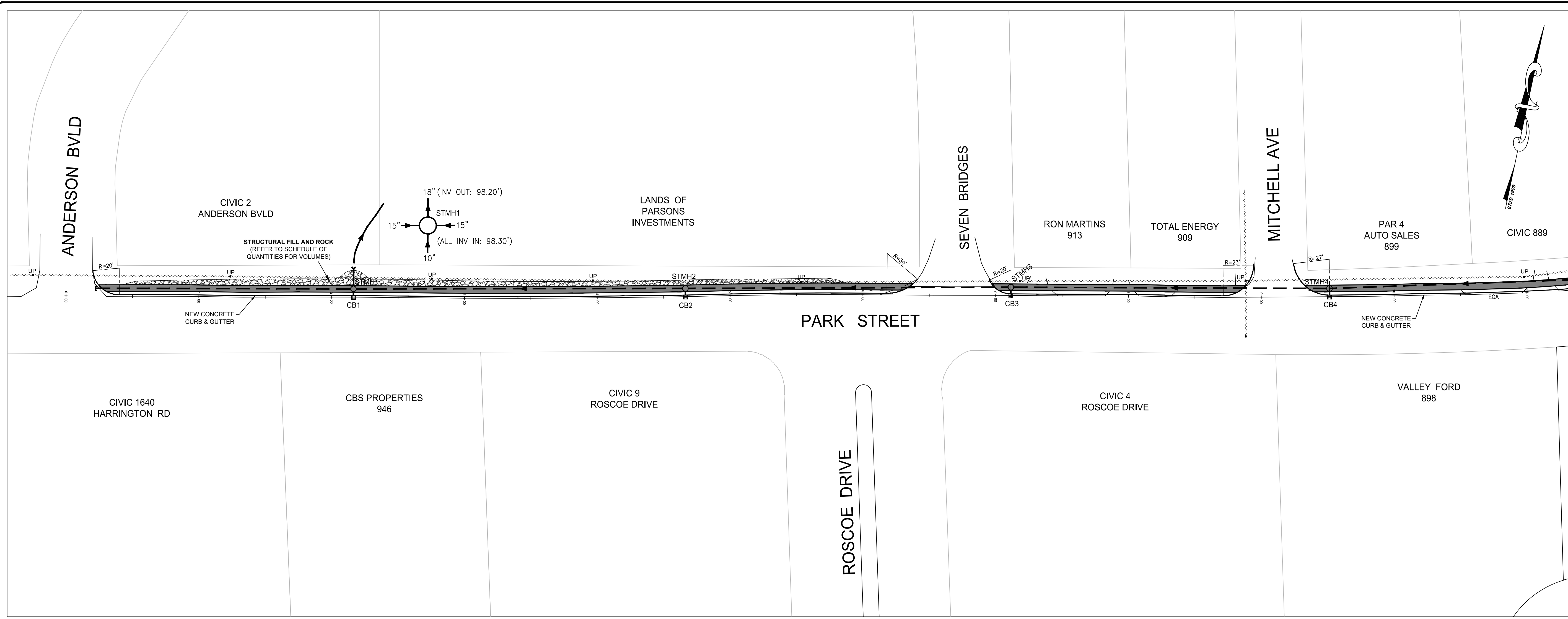
No.	DESCRIPTION	DATE	BY
1	APPROVALS	09/05/2019	DAB

REVISION OR ISSUE



PROJECT:
TOWN OF KENTVILLE
 NEW RETAINING WALL & SIDEWALK
 EAST MAIN STREET
 KENTVILLE, KINGS Co., NS

DATE	SEPT. 5, 2019	REF NO	
DRAWN BY	DAB	CHK	AWD
SCALE	1" = 20'	DWG NO	Y2019-064-03
		SHEET	3 of 6



ENGINEER'S STAMP

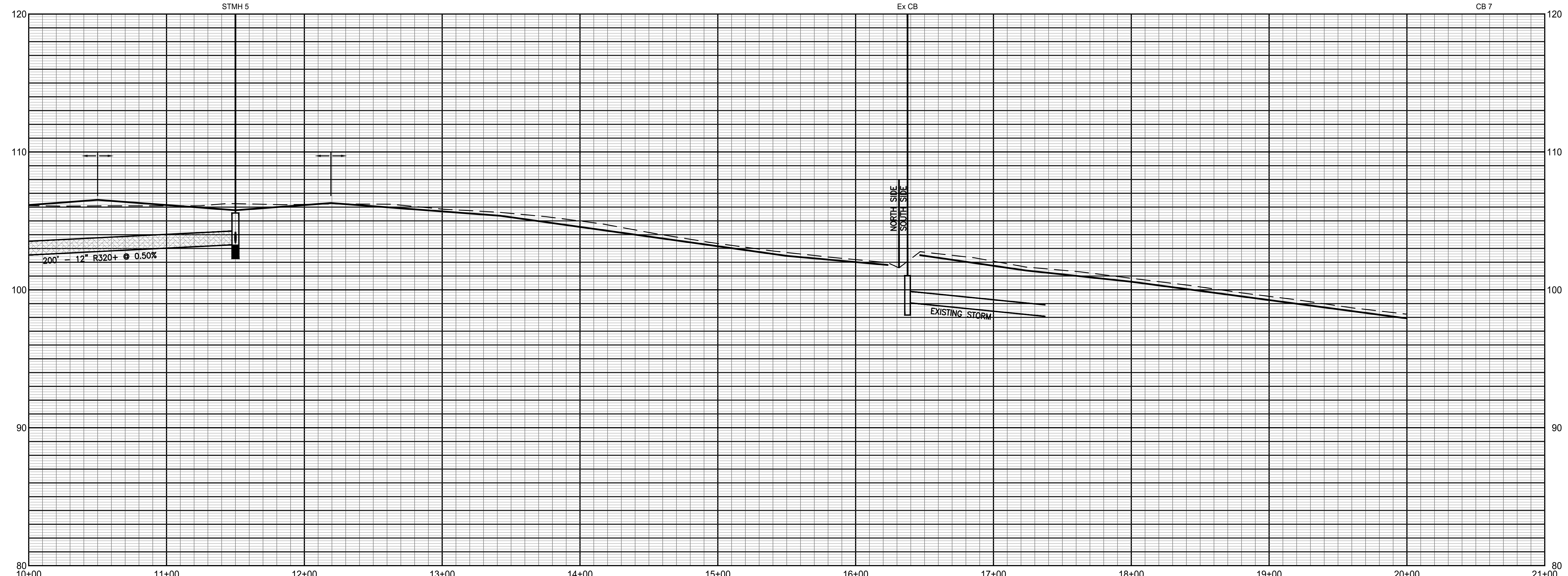
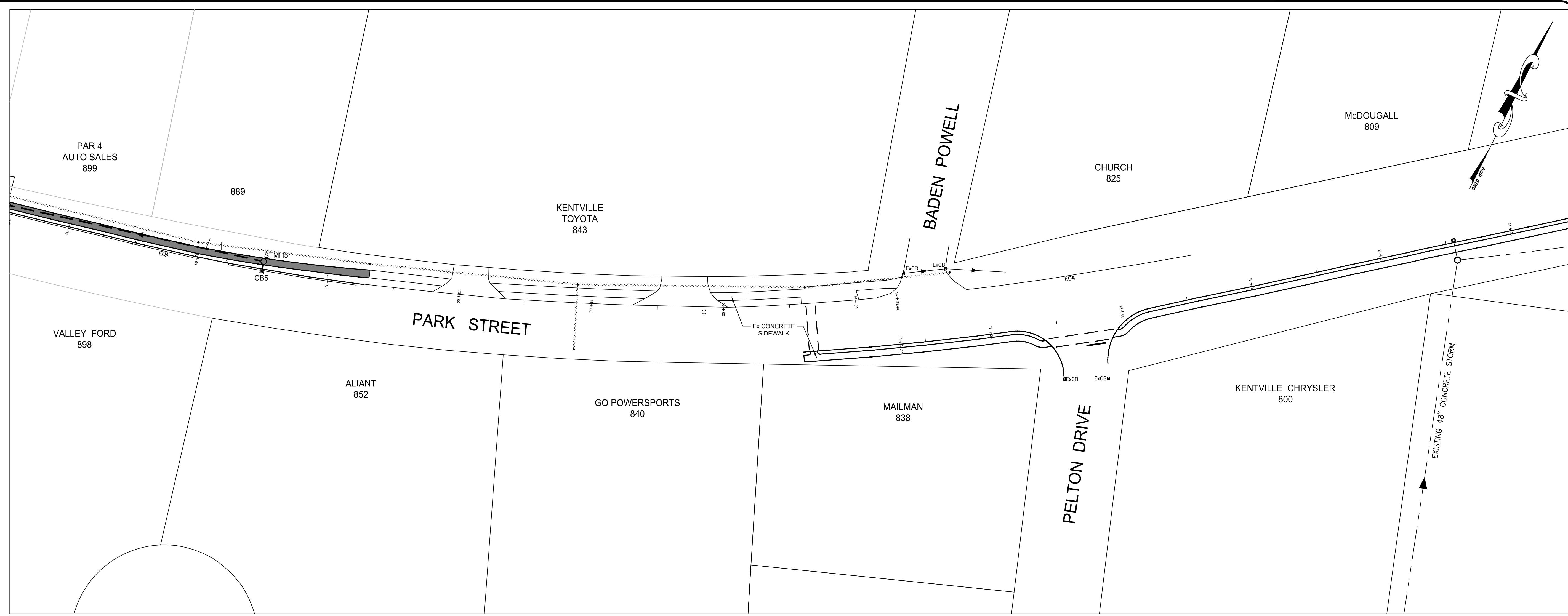
No.	DESCRIPTION	DATE	BY
1	APPROVALS	09/05/2019	DAB

REVISION OR ISSUE

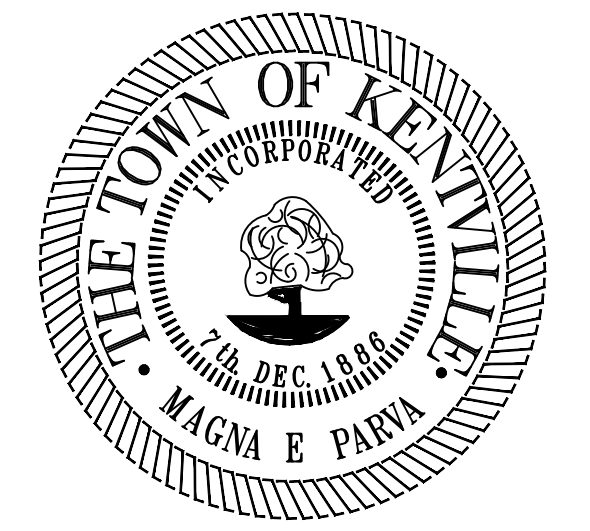


PROJECT:
TOWN OF KENTVILLE
 SIDEWALK EXTENSION
 0+00 TO 11+00
 PARK STREET
 KENTVILLE, KINGS Co., NS

DATE	SEPT. 5, 2019	REF NO	
DRAWN BY	DAB	CHK	AWD
DWG NO	Y2019-064-04	SHEET	4 of 6
SCALE	1" = 40' HORZ 1" = 4' VERT		



GUTTER ELEVATION	06.15	106.52	106.15	105.77	106.15	106.06	105.69	105.26	104.56	103.86	103.16	102.46	102.01	102.47	101.74	101.12	100.59	99.92	99.26	98.59	97.95	97.57	97.20	
GUTTER GRADE	+0.75%		-0.75%	+0.75%		-0.75%				-1.40%			-0.90%		-1.45%		-1.00%			-1.33%			-0.75%	
STATION			11+50							14+69				16+38							20+56			
STORM INVERT			103.271	103.37						101.191	101.09			90.91	90.81							193.82		



ENGINEER'S STAMP

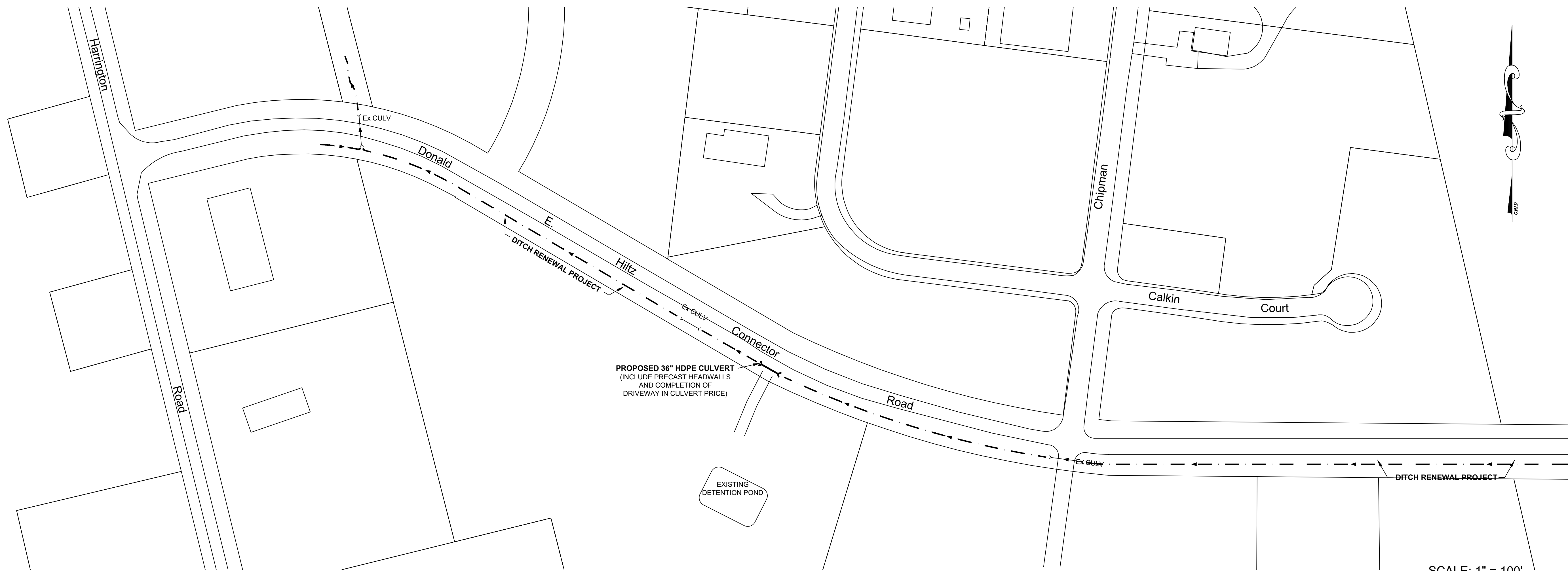
No.	APPROVALS	DATE	BY
1		09/05/2019	DAB

REVISION OR ISSUE

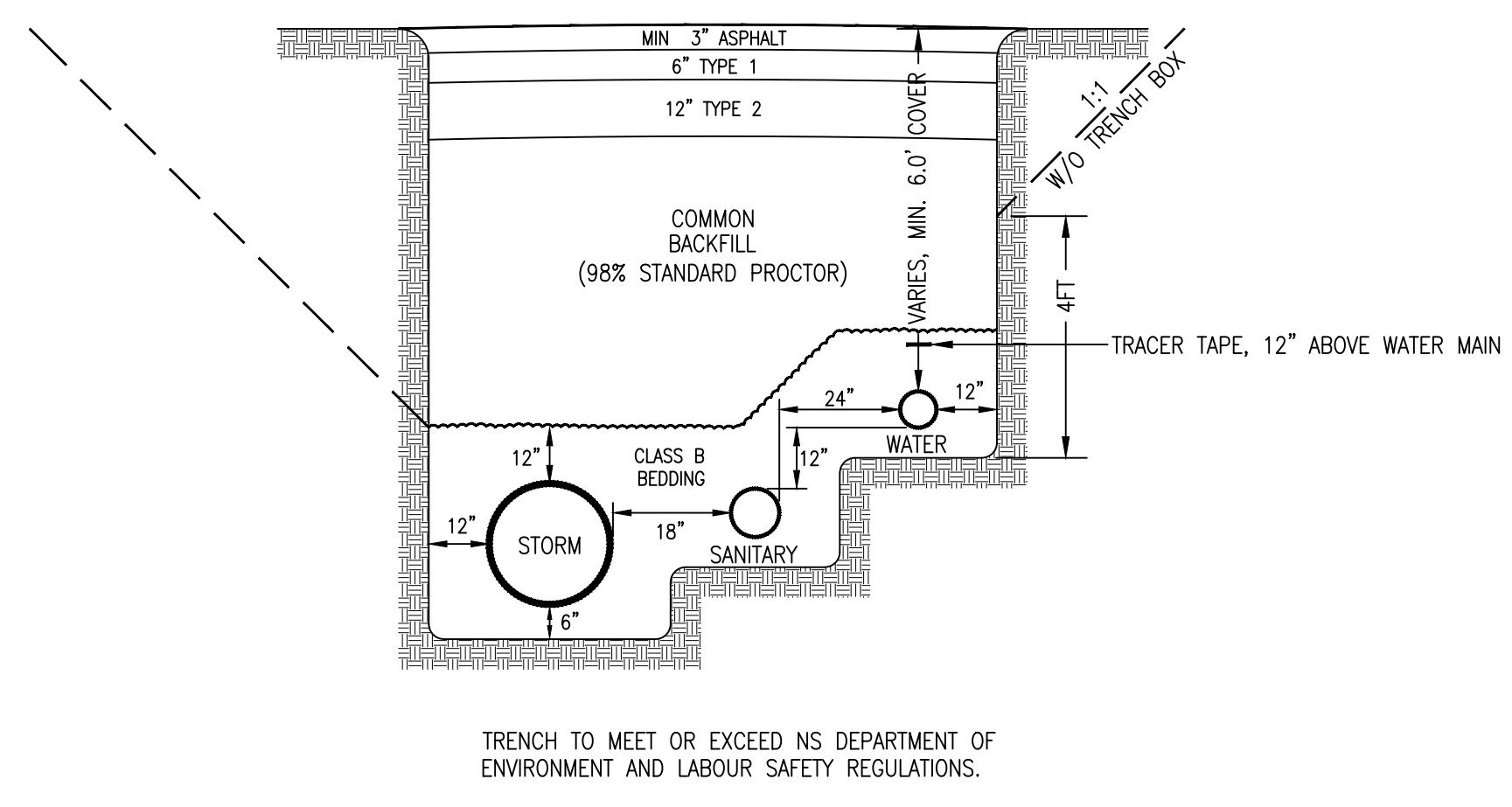


PROJECT:
TOWN OF KENTVILLE
 SIDEWALK EXTENSION
 10+00 TO 21+00
 PARK STREET
 KENTVILLE, KINGS Co., NS

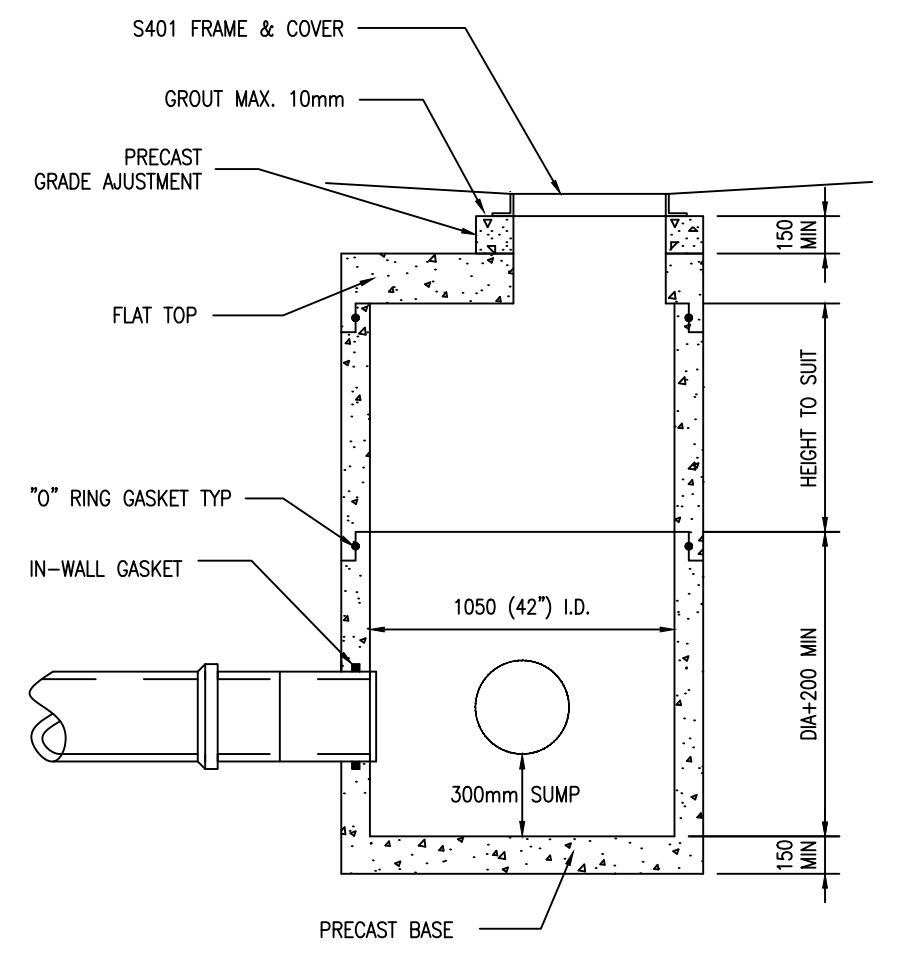
DATE	SEPT. 5, 2019	REF NO	
DRAWN BY	DAB	CHK	AWD
DWG NO	Y2019-064-05	SHEET	5 of 6
SCALE	1" = 40' HORIZ 1" = 4' VERT		



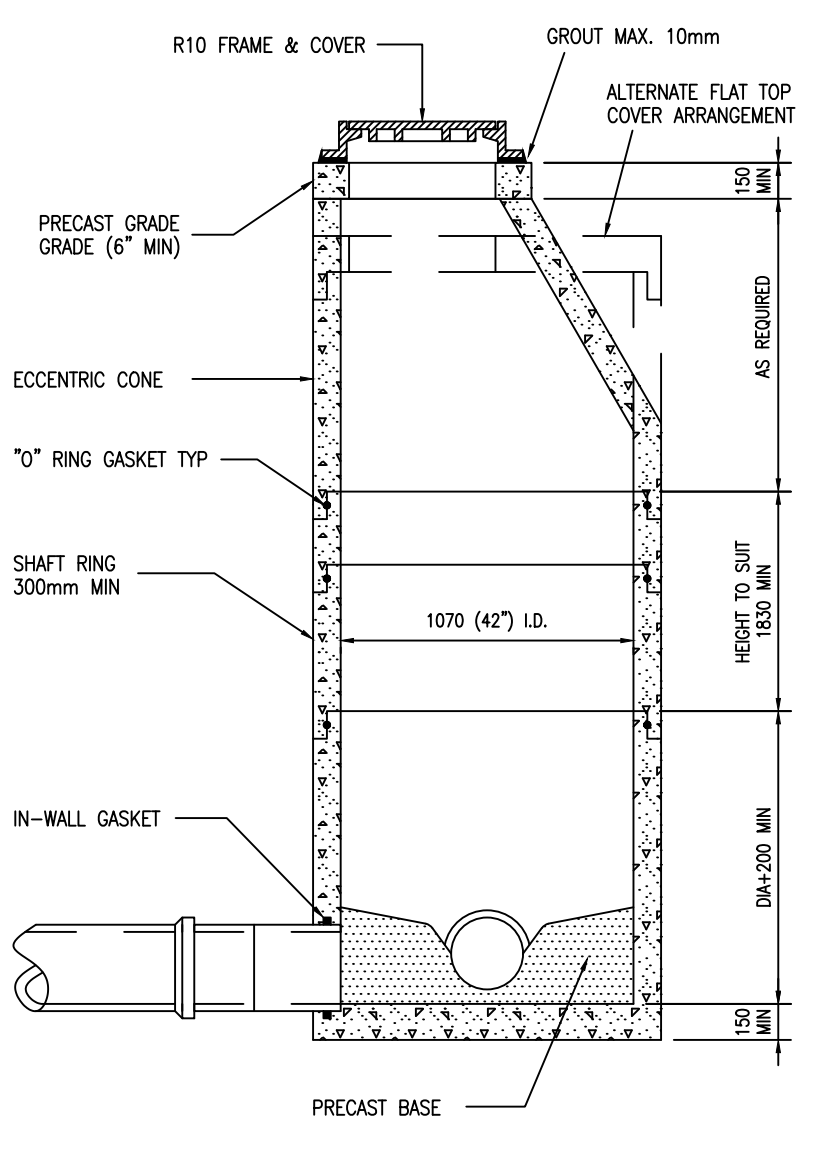
SCALE: 1" = 100'



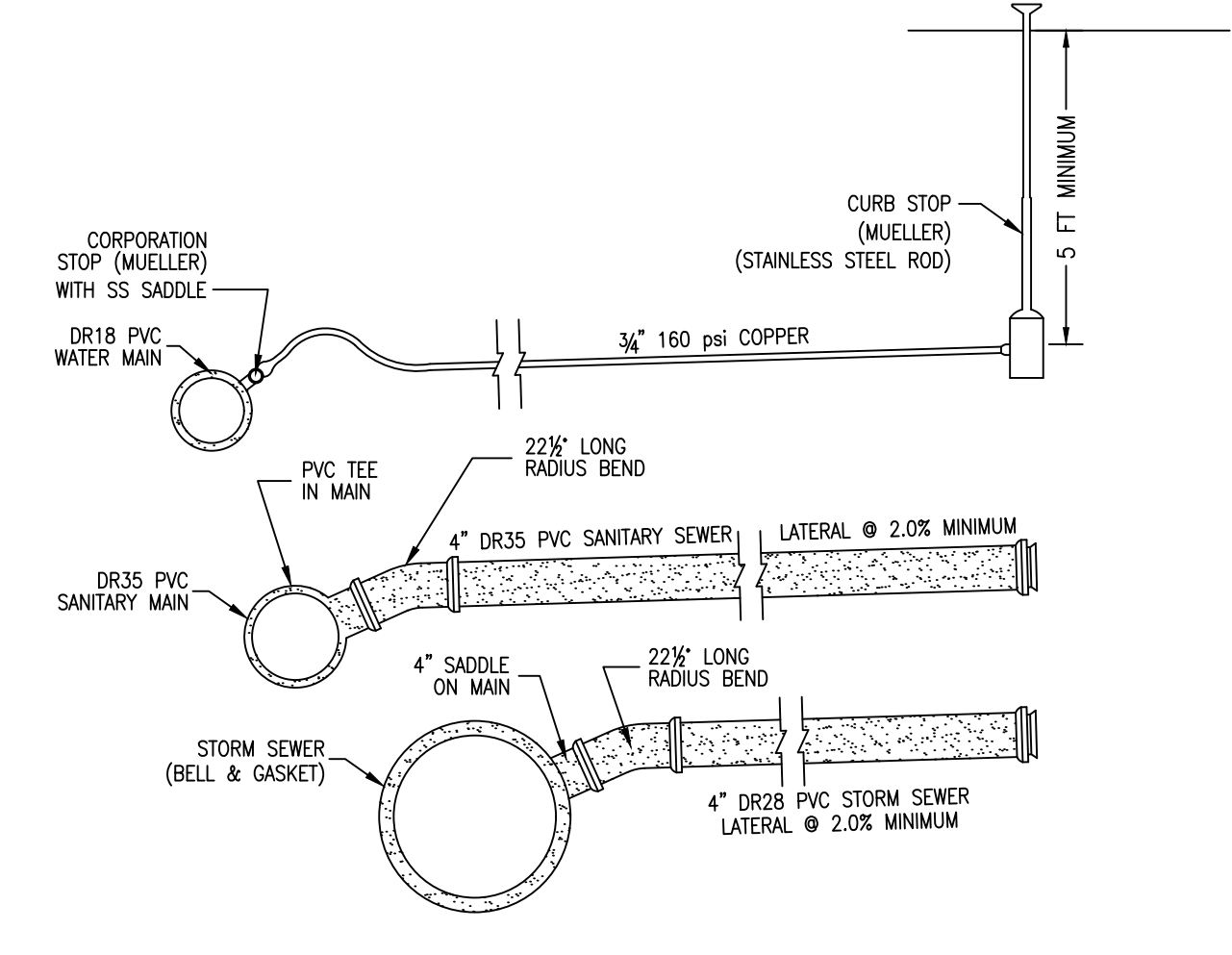
TYPICAL TRENCH DETAIL
N.T.S.



TYPICAL 1050mm (42") I.D. STORM MANHOLE
N.T.S.



TYPICAL 42" I.D. SANITARY MANHOLE
N.T.S.



TYPICAL LATERAL CONNECTION
N.T.S.



ENGINEER'S STAMP

No.	DESCRIPTION	DATE	BY
1	APPROVALS	09/05/2019	DAB

REVISION OR ISSUE



PROJECT:
TOWN OF KENTVILLE
DITCH STABILIZATION
DONALD E. HILTZ ROAD
and DETAILS
KENTVILLE, KINGS Co., NS

DATE SEPT. 5, 2019	CHK AWD	REF NO
DRAWN BY DAB	CHK AWD	DWG NO Y2019-064-06
SCALE AS NOTED	CHK	SHEET 6 of 6