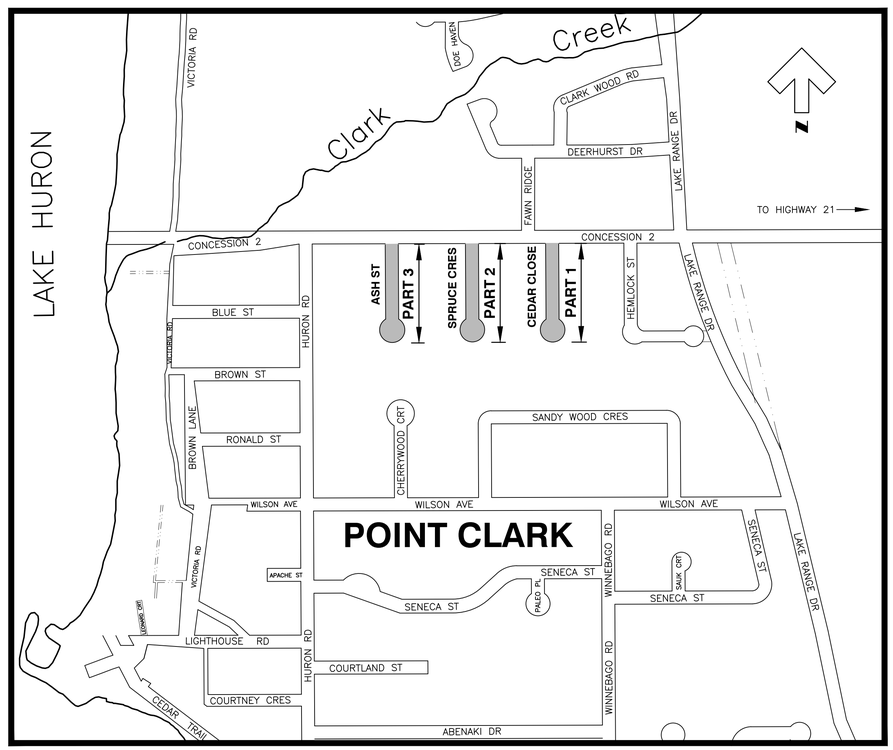
TOWNSHIP OF HURON-KINLOSS

CEDAR, SPRUCE AND ASH STREET STORM SEWERS

CONTRACT No. 23038

DWG No.	PART No.	DESCRIPTION
1	1	CEDAR CLOSE STORM SEWER
2	2	SPRUCE CRESCENT STORM SEWER
3	3	ASH STREET STORM SEWER



KEY PLAN

N.T.S.

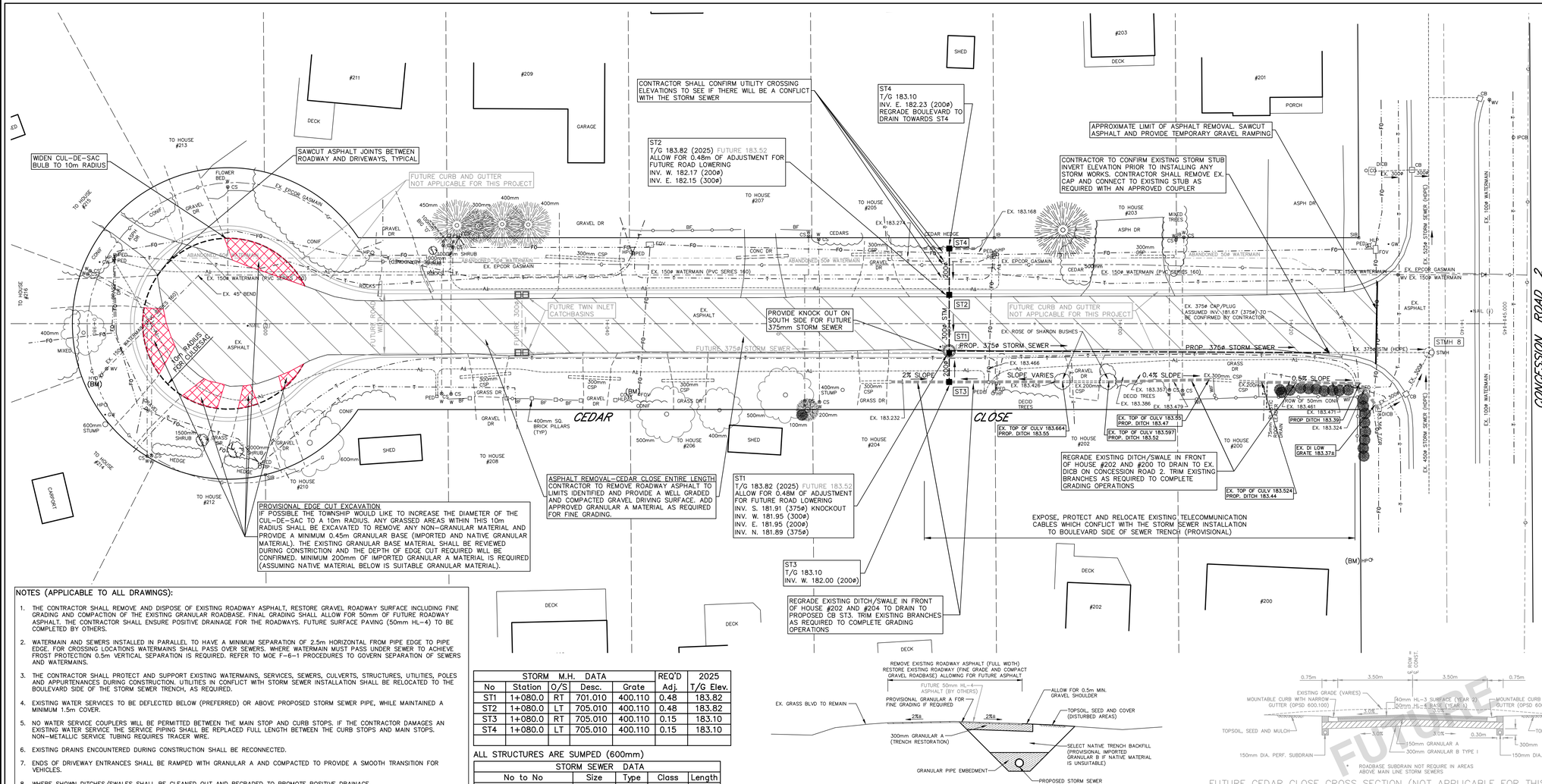
Huron-Kinloss

JUNE 2, 2025

ISSUED FOR TENDER

BMROSS
engineering better communities

Z:\2023\...\Cedar, Spruce, Ash\Projects\Cad Drawings\Production\2023-... Cedar Spruce Ash Designated 2025-06-02 13:19:19 AM - AutoCAD PDF (General Documentation).pct, 13:24



NOTES (APPLICABLE TO ALL DRAWINGS):

1. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING ROADWAY ASPHALT, RESTORE GRAVEL ROADWAY SURFACE INCLUDING FINE GRADING AND COMPACTION OF THE EXISTING GRANULAR ROADBASE. FINAL GRADING SHALL ALLOW FOR 50mm OF FUTURE ROADWAY ASPHALT. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FOR THE ROADWAYS. FUTURE SURFACE PAVING (50mm HL-4) TO BE COMPLETED BY OTHERS.
2. WATERMAIN AND SEWERS INSTALLED IN PARALLEL TO HAVE A MINIMUM SEPARATION OF 2.5m HORIZONTAL FROM PIPE EDGE TO PIPE EDGE. FOR CROSSING LOCATIONS WATERMAINS SHALL PASS OVER SEWERS. WHERE WATERMAIN MUST PASS UNDER SEWER TO ACHIEVE FROST PROTECTION 0.5m VERTICAL SEPARATION IS REQUIRED. REFER TO MOE F-6-1 PROCEDURES TO GOVERN SEPARATION OF SEWERS AND WATERMAINS.
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4. EXISTING WATER SERVICES TO BE DEFLECTED BELOW (PREFERRED) OR ABOVE PROPOSED STORM SEWER PIPE, WHILE MAINTAINED A MINIMUM 1.5m COVER.
5. NO WATER SERVICE COUPLERS WILL BE PERMITTED BETWEEN THE MAIN STOP AND CURB STOPS. IF THE CONTRACTOR DAMAGES AN EXISTING WATER SERVICE THE SERVICE PIPING SHALL BE REPLACED FULL LENGTH BETWEEN THE CURB STOPS AND MAIN STOPS. NON-METALLIC SERVICE TUBING REQUIRES TRACER WIRE.
6. EXISTING DRAINS ENCOUNTERED DURING CONSTRUCTION SHALL BE RECONNECTED.
7. ENDS OF DRIVEWAY ENTRANCES SHALL BE RAMPED WITH GRANULAR A AND COMPACTED TO PROVIDE A SMOOTH TRANSITION FOR VEHICLES.
8. WHERE SHOWN DITCHES/SWALES SHALL BE CLEANED OUT AND REGRADED TO PROMOTE POSITIVE DRAINAGE.
9. EDGE CUT EXCAVATION AND ADDITIONAL GRAVEL FOR CULDESAC WIDENING TO BE REVIEWED WITH TOWNSHIP AT TIME OF CONSTRUCTION.

STORM M.H. DATA					REQ'D	2025
No	Station	O/S	Desc.	Grate	Adj.	T/G Elev.
ST1	1+080.0	RT	701.010	400.110	0.48	183.82
ST2	1+080.0	LT	705.010	400.110	0.48	183.82
ST3	1+080.0	RT	705.010	400.110	0.15	183.10
ST4	1+080.0	LT	705.010	400.110	0.15	183.10

ALL STRUCTURES ARE SUMPED (600mm)

STORM SEWER DATA				
No to No	Size	Type	Class	Length
ST1 TO EX.	375	HDPE	CSA B182.6	44.4
ST1 TO ST2	300	HDPE	CSA B182.6	6.8
ST2 TO ST4	200	HDPE	CSA B182.6	5.4
ST1 TO ST3	200	HDPE	CSA B182.6	3.4

LEGEND

- EXISTING SEWERS, SANITARY or STORM
- MANHOLE and CATCHBASIN
- WATERMAIN, FIRE HYDRANT
- GASMAIN
- UNDERGROUND TELEPHONE
- UNDERGROUND HYDRO
- UNDERGROUND T.V. CABLE
- UTILITY POLES
- REMOVE EXISTING ASPHALT PAVT
- EX. 183.357 EXISTING GROUND ELEVATION
- 0.4% SLOPE REGRADE EXISTING DITCH/SWALE TOWARD CB
- PROPOSED EDGE CUT EXCAVATION AREAS
- PROPOSED CUL-DE-SAC RADIUS WIDENING LINE

1:250 5m 0 5m 10m

1:50 1m 0 1m 2m

NOTE

The locations of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work and agrees to be fully responsible for any damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

BENCHMARK INFORMATION
BM Elev. 184.384
Top nut of fire hydrant at south end of Cedar Close in front of House #214

BENCHMARK INFORMATION
BM Elev. 183.923
Nail and Flag in HP on east side of Cedar Close between House #208 and House #206

BENCHMARK INFORMATION
BM Elev. 184.450
Nail and Flag in first HP east of Cedar Close on south side of Con. 2

Design By: R.R.R. Checked By: D.L.A.

CERTIFICATE OF AUTHORIZATION — ENGINEERING TECHNOLOGIES — ONTARIO — RYAN RISTE — No 816092

LICENSED PROFESSIONAL ENGINEER — D.L. ALEXANDER — PROVINCE OF ONTARIO

No.	DATE	REVISION
1	May 14, 2025	Issued for Client Comment
2	June 2, 2025	Issued for Tender

BMROSS engineering better communities

Goderich | Kincardine | Mount Forest | Sarnia

Huron-Kinloss

Township of Huron-Kinloss

Cedar Close Storm Sewer

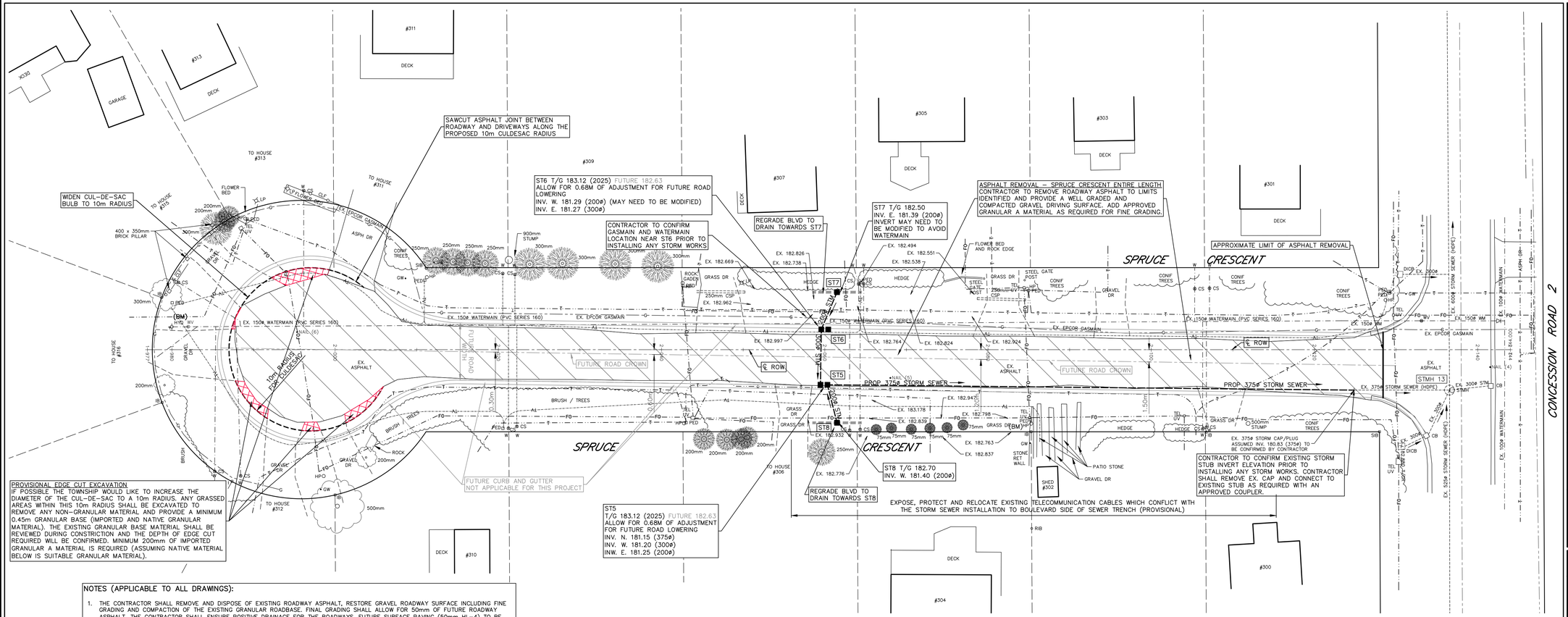
Plan and Profile from Sta. 0+970 to Sta. 1+090

Part No.	Project No.
1	23038

Scale (24x36)
Horizontal : 1 : 250
Vertical : 1 : 50

Drawing No. 1 of 3

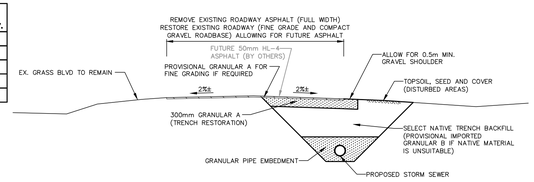
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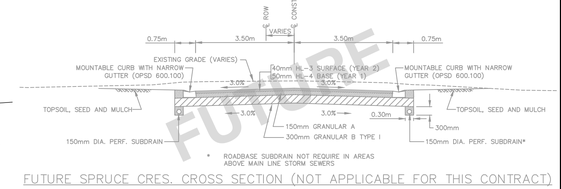
STORM M.H. DATA					REQ'D	2025
No	Station	O/S	Desc.	Grate	Adj.	T/G Elev.
ST5	2+060.0	RT	705.020	400.110(2)	0.68	183.12
ST6	2+060.0	LT	705.020	400.110(2)	0.68	183.12
ST7	2+061.5	RT	705.010	400.110	0.15	182.50
ST8	2+061.5	LT	705.010	400.110	0.15	182.70

ALL STRUCTURES ARE SUMPED (600mm)

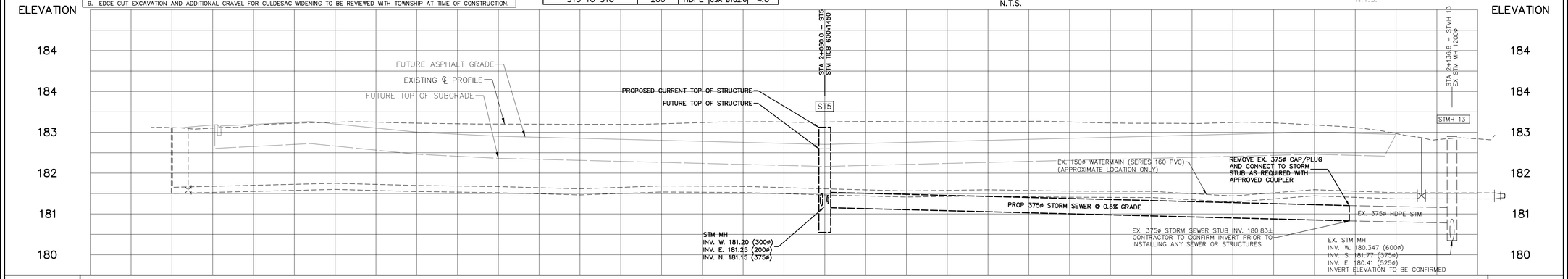
STORM SEWER DATA				
No to No	Size	Type	Class	Length
ST5 TO EX.	375	HDPE	CSA B182.6	65.0
ST5 TO ST6	300	HDPE	CSA B182.6	6.8
ST6 TO ST7	200	HDPE	CSA B182.6	5.0
ST5 TO ST8	200	HDPE	CSA B182.6	4.8



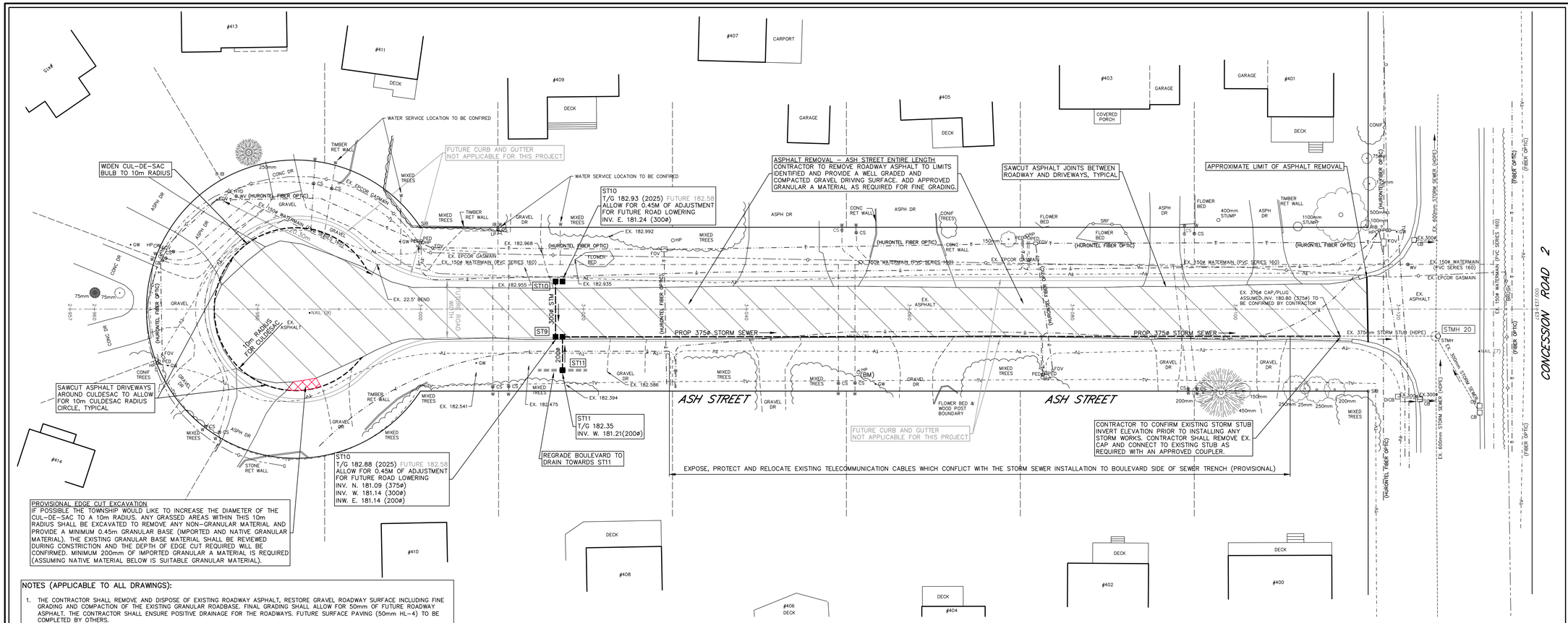
TYPICAL TRENCH RESTORATION DETAIL
N.T.S.



FUTURE SPRUCE CRES. CROSS SECTION (NOT APPLICABLE FOR THIS CONTRACT)
STA. 2+015 TO STA. 2+110
N.T.S.



| | | | | |



PROVISIONAL EDGE CUT EXCAVATION

IF POSSIBLE THE TOWNSHIP WOULD LIKE TO INCREASE THE DIAMETER OF THE CUL-DE-SAC TO A 10m RADIUS. ANY GRASSED AREAS WITHIN THIS 10m RADIUS SHALL BE EXCAVATED TO REMOVE ANY NON-GRANULAR MATERIAL AND PROVIDE A MINIMUM 0.45m GRANULAR BASE (IMPORTED AND NATIVE GRANULAR MATERIAL). THE EXISTING GRANULAR BASE MATERIAL SHALL BE REVIEWED DURING CONSTRICTION AND THE DEPTH OF EDGE CUT REQUIRED WILL BE CONFIRMED. MINIMUM 200mm OF IMPORTED GRANULAR A MATERIAL IS REQUIRED (ASSUMING NATIVE MATERIAL BELOW IS SUITABLE GRANULAR MATERIAL).

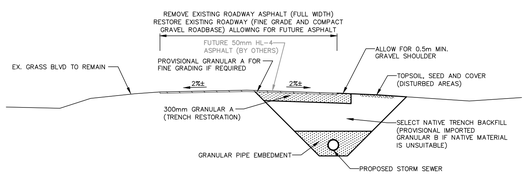
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STORM M.H. DATA					REQ'D	2025
No	Station	O/S	Desc.	Grate	Adj.	T/G Elev.
ST9	3+017.0	RT	705.020	400.110(2)	0.45	182.88
ST10	3+017.0	LT	705.020	400.110(2)	0.45	182.93
ST11	3+017.4	RT	705.010	400.110	0.15	182.35

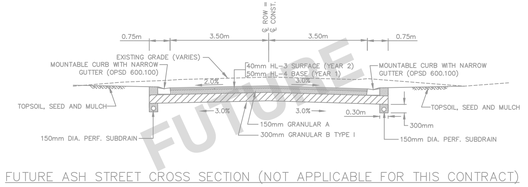
ALL STRUCTURES ARE SUMPED (600mm)

STORM SEWER DATA				
No to No	Size	Type	Class	Length
STUB TO ST9	375	HDPE	CSA B182.6	95.4
ST9 TO ST10	300	HDPE	CSA B182.6	6.9
ST9 TO ST11	200	HDPE	CSA B182.6	4.0



TYPICAL TRENCH RESTORATION DETAIL

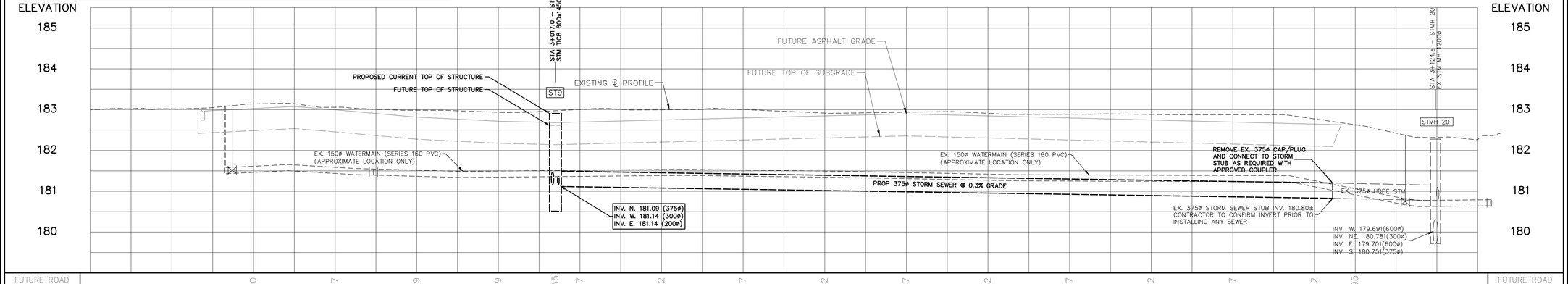
N.T.S.



FUTURE ASH STREET CROSS SECTION (NOT APPLICABLE FOR THIS CONTRACT)

STA. 3+005 TO STA. 3+110

N.T.S.



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