

Addendum No. 1 to the
Engineer's Report
For the Construction of the
Chenier-Jeaurond Municipal Drain
Township of North Glengarry

Prepared For:



The Township of North Glengarry

Prepared By:

Robinson Consultants Inc.
Consulting Engineers

April 20th, 2017

Mayor and Members of Council
Township of North Glengarry
90 Main Street P.O. Box 700
Alexandria, ON K0C 1A0

Attention: **Mr. Daniel Gagnon**
 CAO/Clerk

Reference: **Addendum No. 1 to the Engineer's Report**
 For the Construction of the
 Chenier-Jeaurond Municipal Drain
 Township of North Glengarry
 Our Project No. B15041

Dear Sir:

Subsequent to the submission of the Engineer's Report for the Chenier-Jeaurond Municipal Drain, Township of North Glengarry (Former Township of Lochiel), dated February 2017, a discrepancy in the drainage area was noted by landowners. An on-site review was completed on April 18th, 2017 and confirmed that there is a discrepancy. This "Addendum No. 1" is provided to address this discrepancy and make the required revisions. The information, plans and schedules provided hereafter replace those previously provided in the February 2017 Engineer's Report. All other provisions of the original February 2017 report will continue to govern.

If you have any questions, please feel free to contact the undersigned at 592-6060 extension 104.

Yours very truly,

ROBINSON CONSULTANTS INC.



A.J. Robinson, P.Eng.
Drainage Engineer

AJR:plw

c.c. Ryan Morton, Manager of Public Works, Township of North Glengarry

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1.0 GENERAL

Information as listed below is revised from the February 2017 submission of the “Engineer’s Report – For the Construction of the Chenier-Jeaurond Municipal Drain – Township of North Glengarry”

Section 3.1

Figure 3.1 is replaced with the attached **revised Figure 3.1, marked “Revised Per Addendum No. 1”, dated April 2017.**

Section 3.2

Section 3.2 is replaced as follows:

The drainage basin for the Chenier-Jeaurond Municipal Drain includes parts of Lots **19** through 30 inclusive, Concessions 1 in the Township of North Glengarry (Former Township of Lochiel), and parts of Lots 21 through 26 (inclusive), Con 9 in the Township of South Glengarry, as well as part of Lots 26 through 28 Con 2 in the Township of North Glengarry which includes Branch No. 1.

The drainage area is approximately **734 hectares (1814 Acres)**. The limits of the Drainage area (drainage basin) are shown on Dwg. No. 15041-A1. These limits have been determined by contour mapping, field reconnaissance and field survey, and are in general conformance with the established drainage area boundaries of adjacent drains.

Section 5.2

Figure 5.1 is replaced with the attached **revised Figure 5.1, marked “Issued for Addendum No. 1”, dated April 2017**

Section 5.3

Figure 5.2 is replaced with the attached **revised Figure 5.2 marked “Issued for Addendum No. 1”, dated April 2017**

Section 7.6

Figure 7.1 is replaced with the attached **revised Figure 7.1 marked “Issued for Addendum No. 1”, dated April 2017**

Section 7.8

Figure 7.2 is replaced with the attached **revised Figure 7.2 marked “Issued for Addendum No. 1” dated April 2017.**

Section 8.1

Table 8.1 is revised (to account for revised allowances in Section 2) and replaced as follows:

Table 8.1
Cost Estimate

Item	Section 1	Section 2	Branch 1	Total
Routine				
Construction	\$ 218,457.50	\$ 88,306.25	\$ 8,978.75	\$ 315,742.50
Contingency Allowance	\$ 20,000.00	\$ 8,000.00	\$ 2,000.00	\$ 30,000.00
Engineering/Admin.	\$ 69,720.00	\$ 40,670.00	\$ 5,810.00	\$ 116,200.00
Other (Incl. Allowances)	\$ 50,100.77	\$ 18,705.99	\$ 3,833.84	\$ 72,640.59
Subtotal Routine	\$ 358,278.27	\$ 155,682.24	\$ 20,622.59	\$ 534,583.09
Special Benefit				
Twp./Cty. – Road Auth.	\$ 5,991.04		\$ 2,410.96	\$ 8,402.00
Subtotal Special Benefit	\$ 5,991.04		\$ 2,410.96	\$ 8,402.00
Net Total (Assessed to Properties)	\$ 352,287.23	\$ 155,682.24	\$ 18,211.63	\$ 526,181.09

Appendix A

All Schedules of Assessment included in Appendix A are **revised, dated AD#1 Apr-17 and replaced as per the attached Appendix A.**

Appendix B

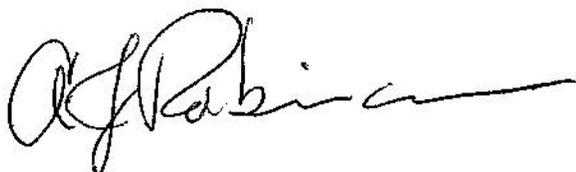
All Schedules of Allowances and cost estimates included in Appendix B are **revised, dated AD#1 Apr-17 and replaced as per the attached Appendix B.**

Appendix C

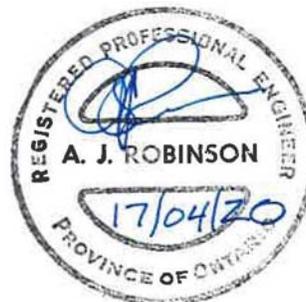
Dwg. No's 15041-A1 through 15041-A3 (inclusive) included in Appendix C are **revised, marked "Issued for Addendum No. 1", dated April 2017, and replaced with Dwg. No's 15041-A1 through 15041-A3 (inclusive) and provided in the attached Appendix C.**

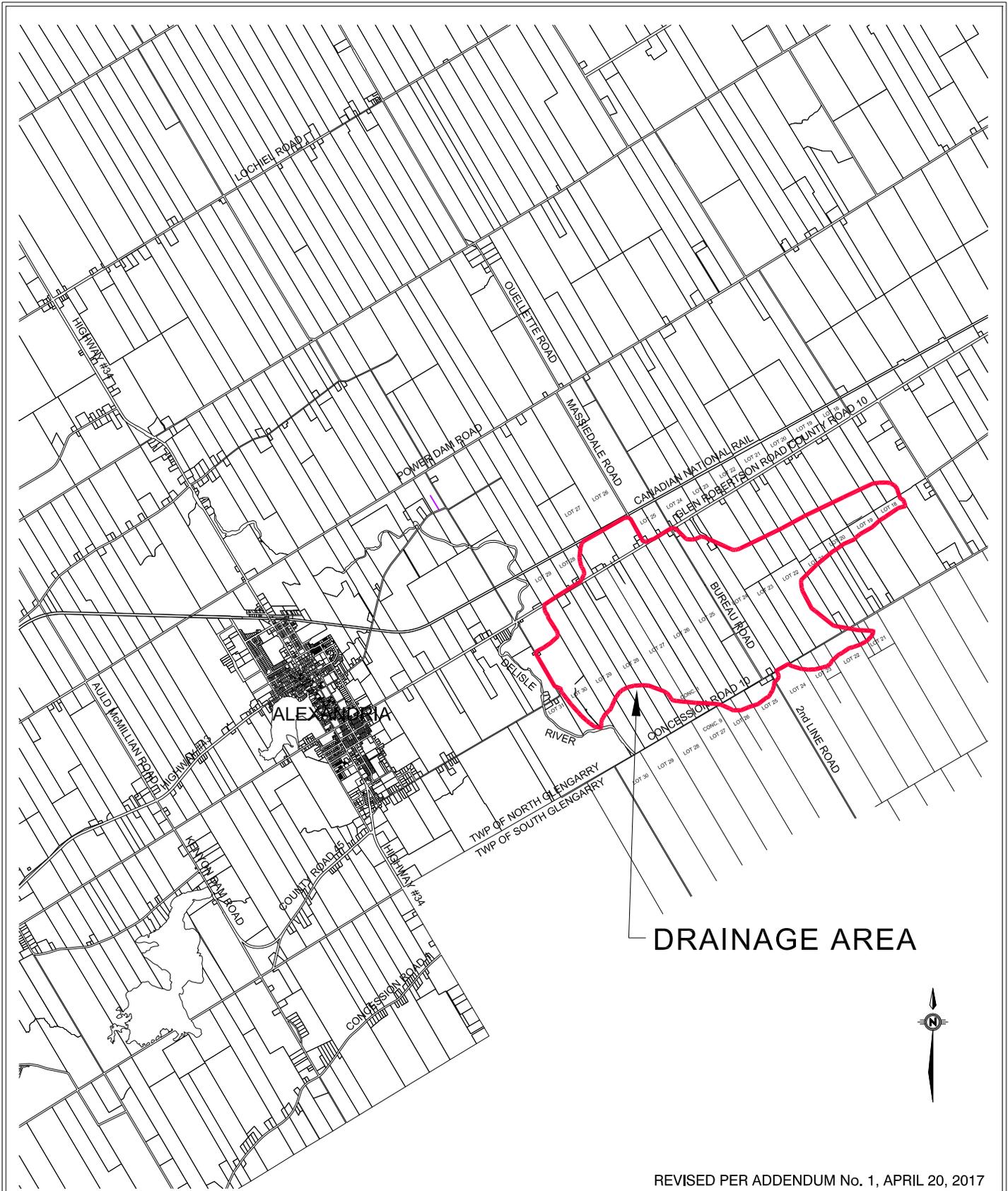
All of which is respectfully submitted,

ROBINSON CONSULTANTS INC.



A.J. Robinson, P.Eng
 Drainage Engineer





DRAINAGE AREA



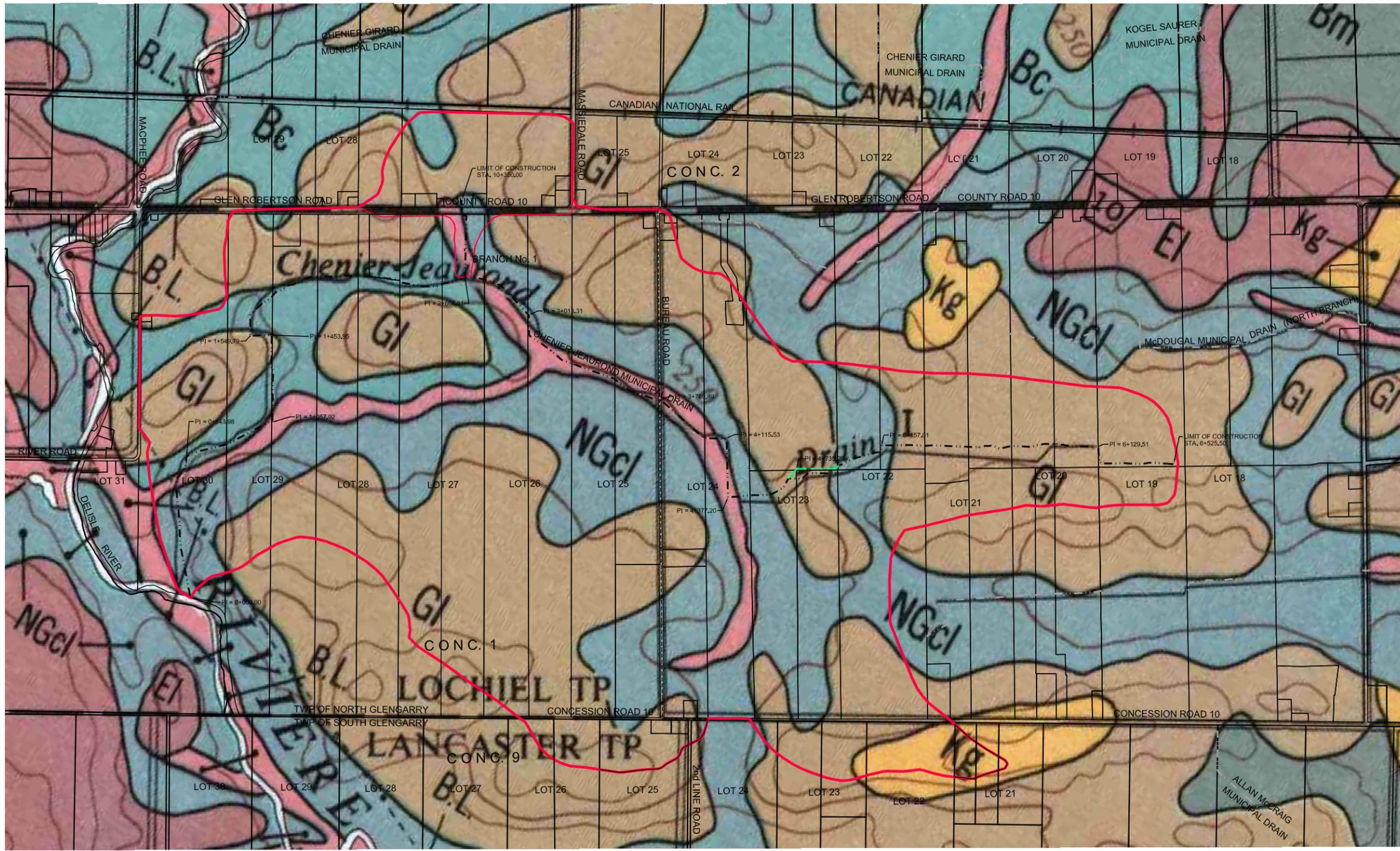
REVISED PER ADDENDUM No. 1, APRIL 20, 2017

Robinson
Consultants

Title		LOCATION PLAN		Fig. No.
				3.1
Project		CHENIER - JEAUROND MUNICIPAL DRAIN		Job No.
				15041
		Scale	Date	
		NTS	APRIL 2017	

LEGEND

-  PROPERTY LINE
-  EXISTING CONSTRUCTED DRAINS
-  MUNICIPAL DRAIN
-  DRAINAGE AREA BOUNDARY
-  RELOCATED DRAIN



SOILS MAP SOURCE

Soils of Glengarry County,
 Ontario Soil Survey Report No. 24
 Cartography Section – Land Resource Research Institute
 Research Branch – Canada Department of Agriculture, 1956.

No.	DATE	REVISION	BY	No.	DATE	REVISION	BY
1	09.02.17	ISSUED FOR DISTRIBUTION	AJR				
2	20.04.17	ADDENDUM No. 1	AJR				



SCALES
 100 0 200
 HORIZONTAL



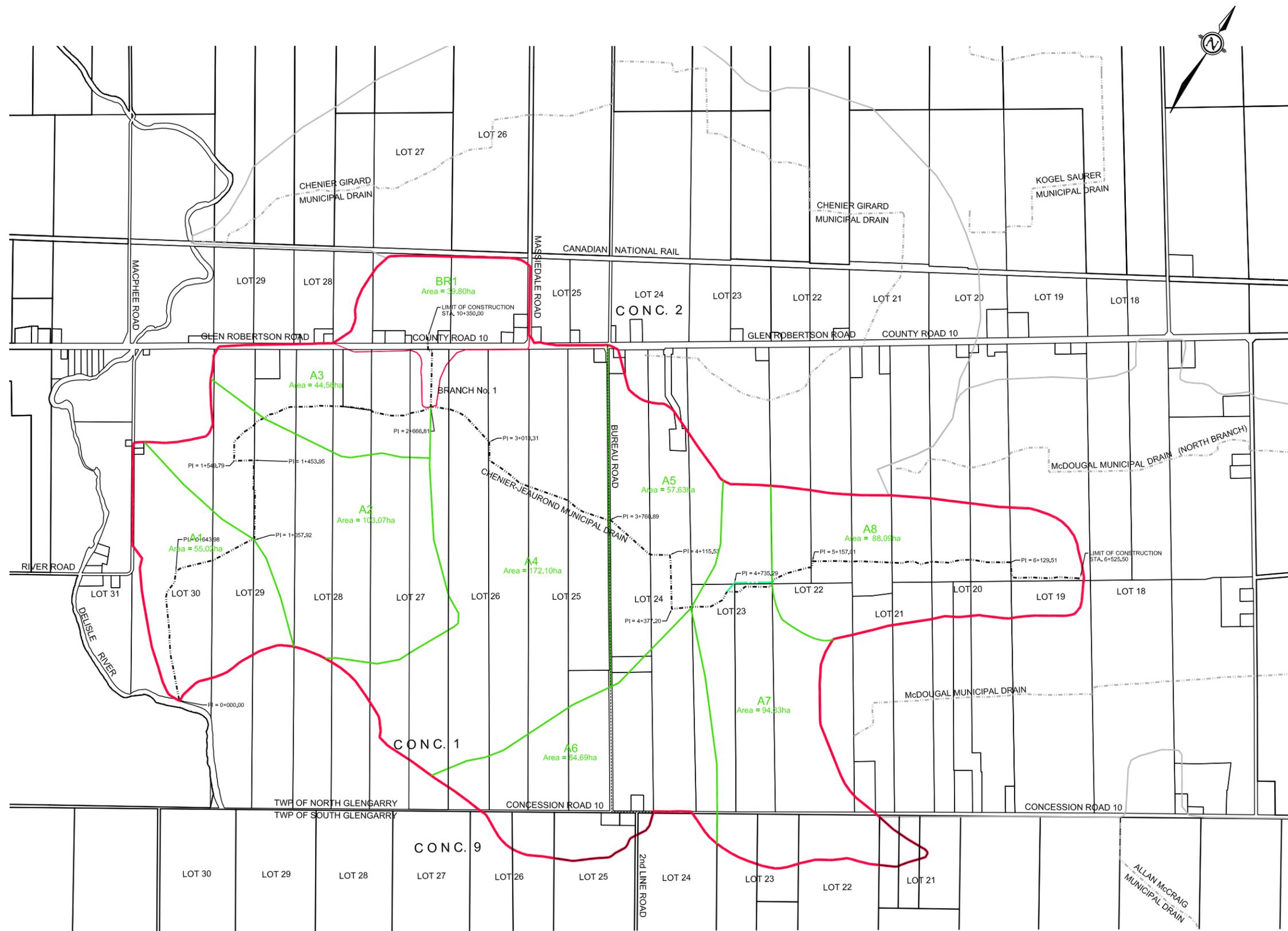
CONSULTING ENGINEERS
 350 PALLADIUM DRIVE
 KANATA, ONTARIO K2V 1A8
 TELEPHONE (613) 592-6060

DESIGN	LF
CHECKED	AJR
DRAWN	JHB
CHECKED	LF
APPROVED	AJR

TOWNSHIP OF NORTH GLENGARRY
 CHENIER - JEAUROND
 MUNICIPAL DRAIN

SOILS MAP

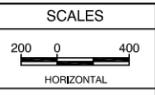
PROJECT No.	15041
CONTRACT No.	
DATED	APRIL 2017
DWG. No:	FIG 5.1



LEGEND

- PROPERTY LINE
- EXISTING CONSTRUCTED DRAINS
- MUNICIPAL DRAIN
- DRAINAGE AREA BOUNDARY
- SUBCATCHMENT AREAS
- RELOCATED DRAIN

No.	DATE	REVISION	BY	No.	DATE	REVISION	BY
1	09.02.17	ISSUED FOR DISTRIBUTION	AJR				
2	20.04.17	ADDENDUM No. 1	AJR				



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DESIGN	LF
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CHECKED	LF
APPROVED	AJR

TOWNSHIP OF NORTH GLENGARRY

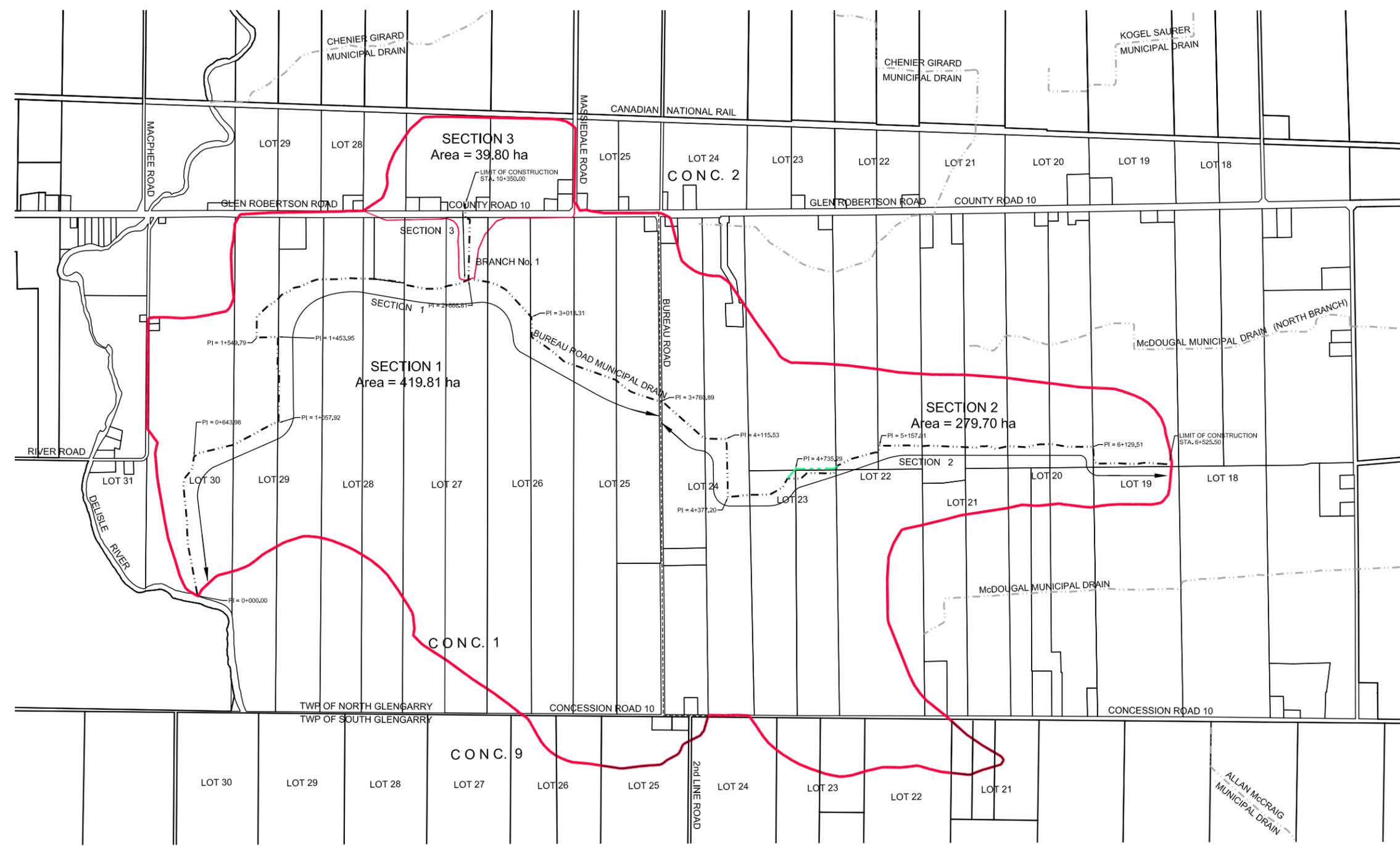
CHENIER - JEAUROND
MUNICIPAL DRAIN

SUBCATCHMENT AREAS

PROJECT No.	15041
CONTRACT No.	
DATED	APRIL 2017
DWG. No.	FIG. 5.2

LEGEND

-  PROPERTY LINE
-  EXISTING CONSTRUCTED DRAINS
-  MUNICIPAL DRAIN
-  DRAINAGE AREA BOUNDARY
-  RELOCATED DRAIN



No.	DATE	REVISION	BY	No.	DATE	REVISION	BY
1	09.02.17	ISSUED FOR DISTRIBUTION	AJR				
2	20.04.17	ADDENDUM No. 1	AJR				



SCALES
100 0 200
HORIZONTAL

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DESIGN	LF
CHECKED	AJR
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CHECKED	LF
APPROVED	AJR

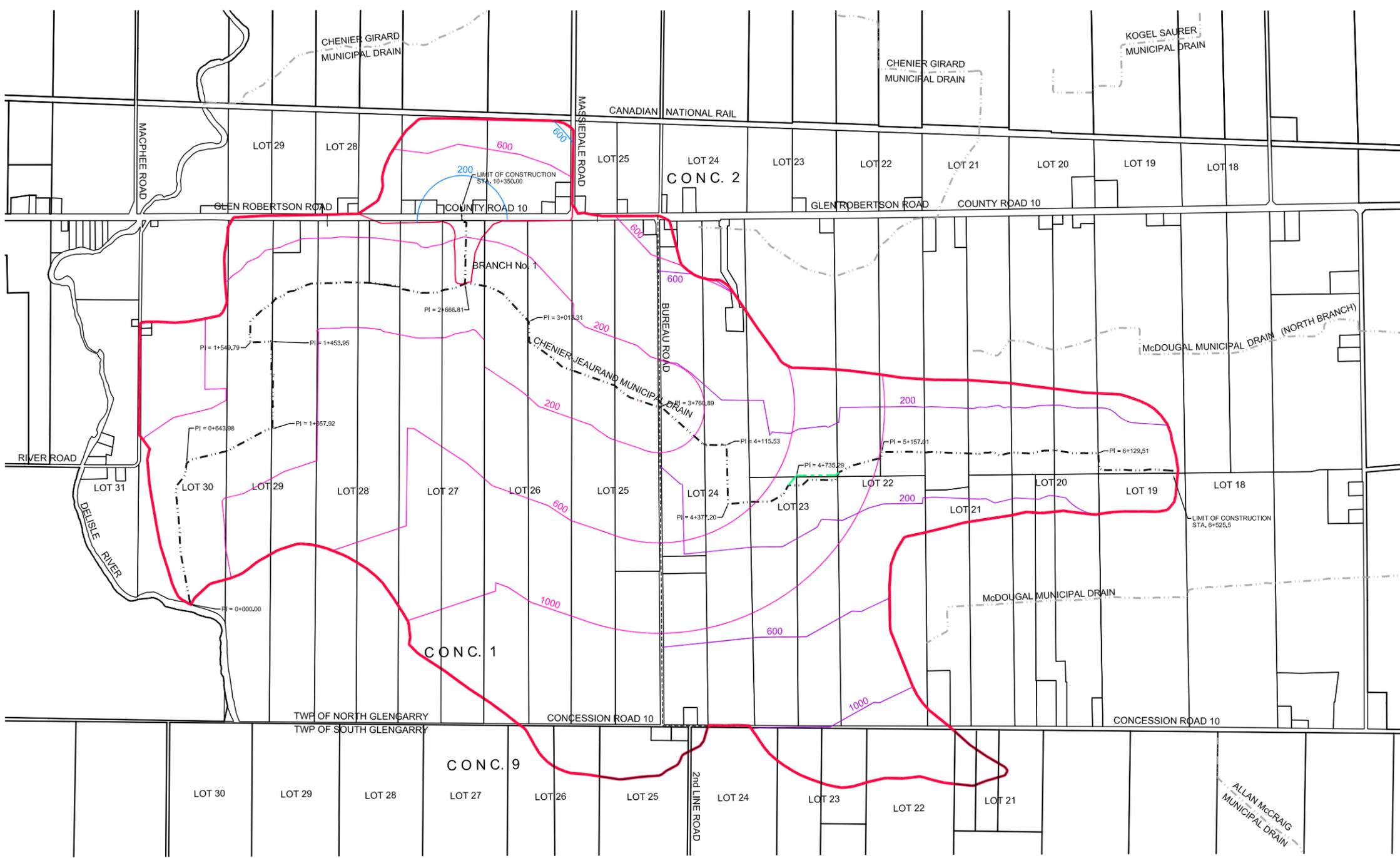
TOWNSHIP OF NORTH GLENGARRY
**CHENIER - JEAUROND
MUNICIPAL DRAIN**

**MAINTENANCE SECTIONS and
SECTION DRAINAGE AREAS**

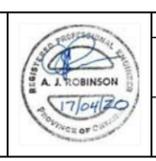
PROJECT No.	15041
CONTRACT No.	
DATED	APRIL 2017
DWG. No.	FIG 7.1

LEGEND

-  PROPERTY LINE
-  EXISTING CONSTRUCTED DRAINS
-  MUNICIPAL DRAIN
-  DRAINAGE AREA BOUNDARY
-  RELOCATED DRAIN
-  DISTANCE FACTORS



No.	DATE dd.mm.yy	REVISION	BY	No.	DATE dd.mm.yy	REVISION	BY
1	09.02.17	ISSUED FOR DISTRIBUTION	AJR				
2	11.04.17	FOR COURT OF REVISION	AJR				



SCALES
100 0 200
HORIZONTAL



CONSULTING ENGINEERS
350 PALLADIUM DRIVE
KANATA, ONTARIO K2V 1A8
TELEPHONE (613) 592-6060

DESIGN	LF
CHECKED	AJR
DRAWN	JHB
CHECKED	LF
APPROVED	AJR

TOWNSHIP OF NORTH GLENGARRY
**CHENIER - JEAUROND
MUNICIPAL DRAIN**

DISTANCE FACTORS

PROJECT No.
15041
CONTRACT No.
DATED
APRIL 2017
DWG. No:
FIG 7.2

Appendix A

Schedules of Assessment

SCHEDULE A - SUMMARY
FOR THE CONSTRUCTION AND FUTURE MAINTENANCE OF ALL SECTIONS



Project No.: B15041
 Date: AD#1 APR-17

ID	Roll No.	Property (located in)		Area Total	Benefit Cost Total	Outlet Cost Total	Sub-total Costs	Special Benefit & Utilities	Grants	Allowances	Total Net Costs
		Lot	Con					Total	Total	Total	Total
<i>Township of North Glengarry -- Individual Landowners</i>											
1	0111 016 002 30000	30	1	41.14	\$ 11,376.14	\$ 9,258.60	\$ 20,634.74	\$ -	\$ 6,809.46	\$ 11,186.73	\$ 2,638.55
2	0111 016 002 32000	30	1	0.14	\$ -	\$ 51.59	\$ 51.59	\$ -	\$ -	\$ -	\$ 51.59
3	0111 016 002 31000	30	1	0.13	\$ -	\$ 47.90	\$ 47.90	\$ -	\$ -	\$ -	\$ 47.90
4	0111 016 002 29000	29	1	30.63	\$ 8,503.43	\$ 6,920.61	\$ 15,424.04	\$ -	\$ 5,089.93	\$ 6,086.17	\$ 4,247.93
5	0111 016 002 28001	29	1	27.16	\$ 7,634.90	\$ 6,213.75	\$ 13,848.65	\$ -	\$ 4,570.05	\$ 6,439.33	\$ 2,839.27
6	0111 016 002 28000	29	1	1.70	\$ -	\$ 675.54	\$ 675.54	\$ -	\$ -	\$ -	\$ 675.54
7	0111 016 002 27000	28	1	26.61	\$ 6,559.41	\$ 10,676.91	\$ 17,236.32	\$ -	\$ 5,687.99	\$ 3,145.77	\$ 8,402.56
8	0111 016 002 26000	28	1	25.65	\$ 6,131.01	\$ 9,979.59	\$ 16,110.60	\$ -	\$ 5,316.50	\$ 2,144.85	\$ 8,649.25
9	0111 016 002 25000	28	1	3.80	\$ -	\$ 1,731.84	\$ 1,731.84	\$ -	\$ 571.51	\$ -	\$ 1,160.33
10	0111 016 002 23000	27	1	35.48	\$ 7,061.11	\$ 11,493.54	\$ 18,554.65	\$ -	\$ 6,123.03	\$ 1,009.24	\$ 11,422.37
11	0111 016 002 24000	27	1	38.91	\$ 7,953.48	\$ 13,658.24	\$ 21,611.72	\$ -	\$ 7,131.87	\$ 3,734.19	\$ 10,745.66
12	0111 016 002 21000	26	1	42.34	\$ 8,311.01	\$ 13,528.02	\$ 21,839.03	\$ -	\$ 7,206.88	\$ 1,756.18	\$ 12,875.97
13	0111 016 002 22000	26	1	42.95	\$ 8,595.49	\$ 21,198.60	\$ 29,794.08	\$ -	\$ 9,832.05	\$ 1,097.61	\$ 18,864.42
14	0111 016 002 20000	25	1	43.10	\$ 8,620.39	\$ 21,260.01	\$ 29,880.40	\$ -	\$ 9,860.53	\$ 1,581.31	\$ 18,438.55
15	0111 016 002 19660	25	1	13.39	\$ -	\$ 3,794.20	\$ 3,794.20	\$ -	\$ -	\$ -	\$ 3,794.20
16	0111 016 002 19600	25	1	29.54	\$ 7,008.59	\$ 17,284.92	\$ 24,293.52	\$ -	\$ 8,016.86	\$ 1,778.97	\$ 14,497.68
17	0111 016 002 19650	25	1	0.37	\$ -	\$ 275.43	\$ 275.43	\$ -	\$ -	\$ -	\$ 275.43
18	0111 016 002 15000	24	1	0.47	\$ -	\$ 365.73	\$ 365.73	\$ -	\$ -	\$ -	\$ 365.73
19	0111 016 002 15800	24	1	12.55	\$ -	\$ 6,184.07	\$ 6,184.07	\$ -	\$ -	\$ -	\$ 6,184.07
20	0111 016 002 15850	24	1	1.47	\$ -	\$ 1,825.24	\$ 1,825.24	\$ -	\$ -	\$ -	\$ 1,825.24
21	0111 016 006 16000	24	1	25.01	\$ 5,917.27	\$ 22,011.23	\$ 27,928.50	\$ -	\$ 9,216.40	\$ 1,068.16	\$ 17,643.94
22	0111 016 002 19000	24	1	0.58	\$ -	\$ 624.02	\$ 624.02	\$ -	\$ -	\$ -	\$ 624.02
23	0111 016 002 18900	24	1	0.12	\$ -	\$ 129.11	\$ 129.11	\$ -	\$ -	\$ -	\$ 129.11
24	0111 016 002 17000	24	1	37.51	\$ 8,088.24	\$ 25,782.45	\$ 33,870.69	\$ -	\$ 11,177.33	\$ 1,965.41	\$ 20,727.96
25	0111 016 002 15850	24	1	0.99	\$ -	\$ 1,597.72	\$ 1,597.72	\$ -	\$ -	\$ -	\$ 1,597.72
26	0111 016 002 14000	23	1	22.09	\$ 4,437.39	\$ 12,072.61	\$ 16,510.00	\$ -	\$ -	\$ 1,068.16	\$ 15,441.84
27	0111 016 002 14000	23	1	20.57	\$ -	\$ 10,487.28	\$ 10,487.28	\$ -	\$ -	\$ -	\$ 10,487.28
28	0111 016 002 13000	23	1	21.07	\$ 3,725.86	\$ 15,863.52	\$ 19,589.38	\$ -	\$ -	\$ 2,767.29	\$ 16,822.08
29	0111 016 002 12000	22	1	33.21	\$ -	\$ 22,182.60	\$ 22,182.60	\$ -	\$ 7,320.26	\$ -	\$ 14,862.34
30	0111 016 002 12700	22	1	8.87	\$ 2,219.75	\$ 8,656.88	\$ 10,876.63	\$ -	\$ -	\$ 747.71	\$ 10,128.93
31	0111 016 002 12600	22	1	8.67	\$ 2,206.98	\$ 7,260.85	\$ 9,467.82	\$ -	\$ -	\$ 939.98	\$ 8,527.85
32	0111 016 002 11000	21	1	3.24	\$ -	\$ 2,500.43	\$ 2,500.43	\$ -	\$ 825.14	\$ -	\$ 1,675.29
33	0111 016 002 09000	21	1	9.39	\$ 2,436.85	\$ 7,976.23	\$ 10,413.07	\$ -	\$ -	\$ 769.07	\$ 9,644.00
34	0111 016 002 08000	21	1	3.70	\$ -	\$ 2,998.54	\$ 2,998.54	\$ -	\$ 989.52	\$ -	\$ 2,009.02
35	0111 016 002 10000	21	1	7.92	\$ 2,017.08	\$ 6,635.20	\$ 8,652.28	\$ -	\$ -	\$ 854.52	\$ 7,797.75
36	0111 016 002 08600	20	1	1.75	\$ -	\$ 2,010.67	\$ 2,010.67	\$ -	\$ -	\$ -	\$ 2,010.67
37	0111 016 002 07050	20	1	1.45	\$ -	\$ 1,692.53	\$ 1,692.53	\$ -	\$ -	\$ -	\$ 1,692.53
38	0111 016 002 03300	20	1	7.43	\$ 1,929.83	\$ 8,713.81	\$ 10,643.64	\$ -	\$ -	\$ 775.46	\$ 9,868.18
39	0111 016 002 07000	20	1	3.35	\$ -	\$ 3,970.26	\$ 3,970.26	\$ -	\$ -	\$ -	\$ 3,970.26
40	0111 016 002 03000	20	1	7.11	\$ 1,861.13	\$ 8,391.21	\$ 10,252.33	\$ -	\$ -	\$ 811.80	\$ 9,440.54
41	0111 016 002 02000	19	1	5.71	\$ -	\$ 7,011.21	\$ 7,011.21	\$ -	\$ 2,313.70	\$ -	\$ 4,697.51
42	0111 016 002 01000	19	1	10.51	\$ 2,719.90	\$ 12,289.75	\$ 15,009.65	\$ -	\$ 4,953.19	\$ 1,459.39	\$ 8,597.08
100	0111 016 004 98000	28	2	2.49	\$ -	\$ 1,680.78	\$ 1,680.78	\$ -	\$ 554.66	\$ -	\$ 1,126.12
101	0111 016 004 93200	27	2	0.37	\$ -	\$ 499.51	\$ 499.51	\$ -	\$ -	\$ -	\$ 499.51
102	0111 016 004 93100	27	2	0.59	\$ -	\$ 917.08	\$ 917.08	\$ -	\$ -	\$ -	\$ 917.08
103	0111 016 004 94000	27	2	0.12	\$ -	\$ 186.53	\$ 186.53	\$ -	\$ -	\$ -	\$ 186.53
104	0111 016 004 93000	27	2	14.21	\$ 3,454.92	\$ 9,317.04	\$ 12,771.96	\$ -	\$ -	\$ 975.60	\$ 11,796.36
105	0111 016 004 93300	27	2	0.37	\$ -	\$ 575.12	\$ 575.12	\$ -	\$ -	\$ -	\$ 575.12
106	0111 016 004 90000	26	2	14.07	\$ -	\$ 8,798.77	\$ 8,798.77	\$ -	\$ -	\$ -	\$ 8,798.77
107	0111 016 004 91000	26	2	0.31	\$ -	\$ 418.51	\$ 418.51	\$ -	\$ -	\$ -	\$ 418.51
108	0111 016 004 90500	26	2	0.49	\$ -	\$ 661.51	\$ 661.51	\$ -	\$ -	\$ -	\$ 661.51
109	0111 016 004 90600	26	2	0.42	\$ -	\$ 567.01	\$ 567.01	\$ -	\$ -	\$ -	\$ 567.01

**SCHEDULE A - SUMMARY
FOR THE CONSTRUCTION AND FUTURE MAINTENANCE OF ALL SECTIONS**



Project No.: B15041
Date: AD#1 APR-17

ID	Roll No.	Property (located in)		Area Total	Benefit Cost Total	Outlet Cost Total	Sub-total Costs	Special Benefit & Utilities Total	Grants Total	Allowances Total	Total Net Costs Total
		Lot	Con								
Township of North Glengarry -- Roads/Other											
	River Road			0.33	\$ -	\$ 324.26	\$ 324.26	\$ -	\$ -	\$ -	\$ 324.26
	Massiedale Road			0.41	\$ -	\$ 986.16	\$ 986.16	\$ -	\$ -	\$ -	\$ 986.16
	Bureau Road			3.09	\$ 2,581.77	\$ 6,044.51	\$ 8,626.29	\$ 5,991.04	\$ -	\$ -	\$ 14,617.32
	N. 1/2 Concession Road 10			0.92	\$ -	\$ 1,028.68	\$ 1,028.68	\$ -	\$ -	\$ -	\$ 1,028.68
Township of South Glengarry -- Individual Owners											
200	0101 001 018 25000	26	9	1.44	\$ -	\$ 321.58	\$ 321.58	\$ -	\$ 106.12	\$ -	\$ 215.46
201	0101 001 018 22200	26	9	4.21	\$ -	\$ 940.17	\$ 940.17	\$ -	\$ 310.26	\$ -	\$ 629.92
202	0101 001 018 21000	25	9	7.15	\$ -	\$ 1,596.73	\$ 1,596.73	\$ -	\$ 526.92	\$ -	\$ 1,069.81
203	0101 001 018 21100	25	9	0.54	\$ -	\$ 241.18	\$ 241.18	\$ -	\$ -	\$ -	\$ 241.18
204	0101 001 018 21090	25	9	0.45	\$ -	\$ 200.99	\$ 200.99	\$ -	\$ -	\$ -	\$ 200.99
205	0101 001 018 18100	24	9	1.49	\$ -	\$ 477.40	\$ 477.40	\$ -	\$ 157.54	\$ -	\$ 319.86
206	0101 001 018 11700	23	9	3.93	\$ -	\$ 1,469.84	\$ 1,469.84	\$ -	\$ -	\$ -	\$ 1,469.84
207	0101 001 018 11600	23	9	5.08	\$ -	\$ 1,899.94	\$ 1,899.94	\$ -	\$ -	\$ -	\$ 1,899.94
208	0101 001 018 11100	22	9	8.72	\$ -	\$ 3,261.31	\$ 3,261.31	\$ -	\$ 1,076.23	\$ -	\$ 2,185.08
209	0101 001 018 10110	21	9	1.86	\$ -	\$ 695.65	\$ 695.65	\$ -	\$ -	\$ -	\$ 695.65
210	0101 001 018 10100	21	9	1.07	\$ -	\$ 400.18	\$ 400.18	\$ -	\$ -	\$ -	\$ 400.18
211	0101 001 018 10200	21	9	0.16	\$ -	\$ 59.84	\$ 59.84	\$ -	\$ -	\$ -	\$ 59.84
Township of South Glengarry -- Roads/Other											
	S. 1/2 Concession Road 10			0.92	\$ -	\$ 2,234.27	\$ 2,234.27	\$ -	\$ -	\$ -	\$ 2,234.27
	2nd Line Road			0.19	\$ -	\$ 653.68	\$ 653.68	\$ -	\$ -	\$ -	\$ 653.68
County of Stormont Dundas and Glengarry -- Roads/Other											
	Glen Robertson Road (Cty. Rd. 10)			0.41	\$ 193.36	\$ 895.17	\$ 1,088.53	\$ 2,410.96	\$ -	\$ -	\$ 3,499.49
TOTAL				733.59	\$ 131,545.27	\$ 394,635.82	\$ 526,181.09	\$ 8,402.00	\$ 115,743.93	\$ 54,162.89	\$ 364,676.27

**SCHEDULE B
FOR THE CONSTRUCTION AND FUTURE MAINTENANCE OF SECTION 1 OF THE CHENIER-JEAUROND MUNICIPAL DRAIN**



Project No.: B15041
Date: AD#1 APR-17

ID	Roll No.	Area	Land Use Factor	Factored Area	Backs on Drain	Distance Factor	Benefit Factored Area	Benefit Cost	Distance Factor	Sub-Section Factor	Outlet Factored Area	Outlet Cost	Sub-Total Cost	ADIP Eligibility	Special Benefit & Utilities	1/3 Grant	Allowance	Total Net Cost
		S1 Total		S1 Total		S1			S1	S1							S1	
Township of North Glengarry -- Individual Landowners																		
1	0111 016 002 30000	41.14	1.00	41.14	Y	0.92	37.69	\$11,376.14	0.92	0.33	12.44	\$ 9,258.60	\$ 20,634.74	100%	\$ -	\$ 6,809.46	\$ 11,186.73	\$ 2,638.55
2	0111 016 002 32000	0.14	2.00	0.28	N	0.75		\$ -	0.75	0.33	0.07	\$ 51.59	\$ 51.59	0%	\$ -	\$ -	\$ -	\$ 51.59
3	0111 016 002 31000	0.13	2.00	0.26	N	0.75		\$ -	0.75	0.33	0.06	\$ 47.90	\$ 47.90	0%	\$ -	\$ -	\$ -	\$ 47.90
4	0111 016 002 29000	30.63	1.00	30.63	Y	0.92	28.17	\$ 8,503.43	0.92	0.33	9.30	\$ 6,920.61	\$ 15,424.04	100%	\$ -	\$ 5,089.93	\$ 6,086.17	\$ 4,247.93
5	0111 016 002 28001	27.16	1.00	27.16	Y	0.93	25.30	\$ 7,634.90	0.93	0.33	8.35	\$ 6,213.75	\$ 13,848.65	100%	\$ -	\$ 4,570.05	\$ 6,439.33	\$ 2,839.27
6	0111 016 002 28000	1.70	2.00	3.40	N	0.81		\$ -	0.81	0.33	0.91	\$ 675.54	\$ 675.54	0%	\$ -	\$ -	\$ -	\$ 675.54
7	0111 016 002 27000	26.61	1.00	26.61	Y	0.82	21.73	\$ 6,559.41	0.82	0.66	14.34	\$ 10,676.91	\$ 17,236.32	100%	\$ -	\$ 5,687.99	\$ 3,145.77	\$ 8,402.56
8	0111 016 002 26000	25.65	1.00	25.65	Y	0.79	20.31	\$ 6,131.01	0.79	0.66	13.41	\$ 9,979.59	\$ 16,110.60	100%	\$ -	\$ 5,316.50	\$ 2,144.85	\$ 8,649.25
9	0111 016 002 25000	3.80	1.00	3.80	N	0.93		\$ -	0.93	0.66	2.33	\$ 1,731.84	\$ 1,731.84	100%	\$ -	\$ 571.51	\$ -	\$ 1,160.33
10	0111 016 002 23000	35.48	1.00	35.48	Y	0.66	23.39	\$ 7,061.11	0.66	0.66	15.44	\$ 11,493.54	\$ 18,554.65	100%	\$ -	\$ 6,123.03	\$ 1,009.24	\$ 11,422.37
11	0111 016 002 24000	38.91	1.00	38.91	Y	0.65	23.35	\$ 7,048.85	0.65	0.66	16.70	\$ 12,432.10	\$ 19,480.95	100%	\$ -	\$ 6,428.71	\$ 1,547.50	\$ 11,504.74
12	0111 016 002 21000	42.34	1.00	42.34	Y	0.65	27.54	\$ 8,311.01	0.65	0.66	18.17	\$ 13,528.02	\$ 21,839.03	100%	\$ -	\$ 7,206.88	\$ 1,756.18	\$ 12,875.97
13	0111 016 002 22000	42.95	1.00	42.95	Y	0.66	28.48	\$ 8,595.49	0.66	1.00	28.48	\$ 21,198.60	\$ 29,794.08	100%	\$ -	\$ 9,832.05	\$ 1,097.61	\$ 18,864.42
14	0111 016 002 20000	43.10	1.00	43.10	Y	0.66	28.56	\$ 8,620.39	0.66	1.00	28.56	\$ 21,260.01	\$ 29,880.40	100%	\$ -	\$ 9,860.53	\$ 1,581.31	\$ 18,438.55
15	0111 016 002 19660	13.39	1.00	13.39	N	0.38		\$ -	0.38	1.00	5.10	\$ 3,794.20	\$ 3,794.20	0%	\$ -	\$ -	\$ -	\$ 3,794.20
16	0111 016 002 19600	29.54	1.00	29.54	Y	0.79	23.22	\$ 7,008.59	0.79	1.00	23.22	\$ 17,284.92	\$ 24,293.52	100%	\$ -	\$ 8,016.86	\$ 1,778.97	\$ 14,497.68
17	0111 016 002 19650	0.37	2.00	0.74	N	0.50		\$ -	0.50	1.00	0.37	\$ 275.43	\$ 275.43	0%	\$ -	\$ -	\$ -	\$ 275.43
18	0111 016 002 15000	0.47	2.00	0.94		0.30		\$ -	0.30	1.00	0.28	\$ 209.92	\$ 209.92	0%	\$ -	\$ -	\$ -	\$ 209.92
19	0111 016 002 15800	12.55	1.00	12.55		0.39		\$ -	0.39	1.00	4.85	\$ 3,606.61	\$ 3,606.61	0%	\$ -	\$ -	\$ -	\$ 3,606.61
20	0111 016 002 15850	1.47	2.00	2.94		0.50		\$ -	0.50	1.00	1.47	\$ 1,094.27	\$ 1,094.27	0%	\$ -	\$ -	\$ -	\$ 1,094.27
21	0111 016 006 16000	25.01	1.00	25.01		0.80		\$ -	0.80	1.00	19.98	\$ 14,873.07	\$ 14,873.07	100%	\$ -	\$ 4,908.11	\$ -	\$ 9,964.96
22	0111 016 002 19000	0.58	2.00	1.16		0.50		\$ -	0.50	1.00	0.58	\$ 431.75	\$ 431.75	0%	\$ -	\$ -	\$ -	\$ 431.75
23	0111 016 002 18900	0.12	2.00	0.24		0.50		\$ -	0.50	1.00	0.12	\$ 89.33	\$ 89.33	0%	\$ -	\$ -	\$ -	\$ 89.33
24	0111 016 002 17000	37.51	1.00	37.51		0.57		\$ -	0.57	1.00	21.53	\$ 16,025.40	\$ 16,025.40	100%	\$ -	\$ 5,288.38	\$ -	\$ 10,737.02
25	0111 016 002 15850	0.99	2.00	1.98		0.75		\$ -	0.75	1.00	1.49	\$ 1,105.43	\$ 1,105.43	0%	\$ -	\$ -	\$ -	\$ 1,105.43
26	0111 016 002 14000	22.09	1.00	22.09		0.41		\$ -	0.41	1.00	9.03	\$ 6,719.68	\$ 6,719.68	0%	\$ -	\$ -	\$ -	\$ 6,719.68
27	0111 016 002 14000	20.57	1.00	20.57		0.37		\$ -	0.37	1.00	7.67	\$ 5,710.28	\$ 5,710.28	0%	\$ -	\$ -	\$ -	\$ 5,710.28
28	0111 016 002 13000	21.07	1.00	21.07		0.63		\$ -	0.63	1.00	13.26	\$ 9,870.72	\$ 9,870.72	0%	\$ -	\$ -	\$ -	\$ 9,870.72
29	0111 016 002 12000	33.21	1.00	33.21		0.32		\$ -	0.32	1.00	10.48	\$ 7,803.52	\$ 7,803.52	100%	\$ -	\$ 2,575.16	\$ -	\$ 5,228.36
30	0111 016 002 12700	8.87	1.00	8.87		0.50		\$ -	0.50	1.00	4.44	\$ 3,301.41	\$ 3,301.41	0%	\$ -	\$ -	\$ -	\$ 3,301.41
31	0111 016 002 12600	8.67	1.00	8.67		0.30		\$ -	0.30	1.00	2.60	\$ 1,936.18	\$ 1,936.18	0%	\$ -	\$ -	\$ -	\$ 1,936.18
32	0111 016 002 11000	3.24	1.00	3.24		0.30		\$ -	0.30	1.00	0.97	\$ 723.55	\$ 723.55	100%	\$ -	\$ 238.77	\$ -	\$ 484.78
33	0111 016 002 09000	9.39	1.00	9.39		0.30		\$ -	0.30	1.00	2.82	\$ 2,096.97	\$ 2,096.97	0%	\$ -	\$ -	\$ -	\$ 2,096.97
34	0111 016 002 08000	3.70	1.00	3.70		0.30		\$ -	0.30	1.00	1.11	\$ 826.28	\$ 826.28	100%	\$ -	\$ 272.67	\$ -	\$ 553.61

**SCHEDULE B
FOR THE CONSTRUCTION AND FUTURE MAINTENANCE OF SECTION 1 OF THE CHENIER-JEAUROND MUNICIPAL DRAIN**



Project No.: B15041
Date: AD#1 APR-17

ID	Roll No.	Area	Land Use Factor	Factored Area	Backs on Drain	Distance Factor	Benefit Factored Area	Benefit Cost	Distance Factor	Sub-Section Factor	Outlet Factored Area	Outlet Cost	Sub-Total Cost	ADIP Eligibility	Special Benefit & Utilities	1/3 Grant	Allowance	Total Net Cost	
		S1 Total		S1 Total		S1			S1	S1							S1		S1
35	0111 016 002 10000	7.92	1.00	7.92		0.30		\$ -	0.30	1.00	2.38	\$ 1,768.69	\$ 1,768.69	0%	\$ -	\$ -	\$ -	\$ 1,768.69	
36	0111 016 002 08600	1.75	1.00	1.75		0.30		\$ -	0.30	1.00	0.53	\$ 390.81	\$ 390.81	0%	\$ -	\$ -	\$ -	\$ 390.81	
37	0111 016 002 07050	1.45	1.00	1.45		0.30		\$ -	0.30	1.00	0.44	\$ 323.81	\$ 323.81	0%	\$ -	\$ -	\$ -	\$ 323.81	
38	0111 016 002 03300	7.43	1.00	7.43		0.30		\$ -	0.30	1.00	2.23	\$ 1,659.26	\$ 1,659.26	0%	\$ -	\$ -	\$ -	\$ 1,659.26	
39	0111 016 002 07000	3.35	1.00	3.35		0.30		\$ -	0.30	1.00	1.01	\$ 748.12	\$ 748.12	0%	\$ -	\$ -	\$ -	\$ 748.12	
40	0111 016 002 03000	7.11	1.00	7.11		0.30		\$ -	0.30	1.00	2.13	\$ 1,587.80	\$ 1,587.80	0%	\$ -	\$ -	\$ -	\$ 1,587.80	
41	0111 016 002 02000	5.71	1.00	5.71		0.30		\$ -	0.30	1.00	1.71	\$ 1,275.15	\$ 1,275.15	100%	\$ -	\$ 420.80	\$ -	\$ 854.35	
42	0111 016 002 01000	10.51	1.00	10.51		0.30		\$ -	0.30	1.00	3.15	\$ 2,347.09	\$ 2,347.09	100%	\$ -	\$ 774.54	\$ -	\$ 1,572.55	
100	0111 016 004 98000	2.49	1.00	2.49		0.75		\$ -	0.75	0.66	1.23	\$ 917.51	\$ 917.51	100%	\$ -	\$ 302.78	\$ -	\$ 614.73	
101	0111 016 004 93200	0.37	2.00	0.74		0.75		\$ -	0.75	0.66	0.37	\$ 272.67	\$ 272.67	0%	\$ -	\$ -	\$ -	\$ 272.67	
102	0111 016 004 93100	0.59	2.00	1.18		0.75		\$ -	0.75	0.66	0.58	\$ 434.80	\$ 434.80	0%	\$ -	\$ -	\$ -	\$ 434.80	
103	0111 016 004 94000	0.12	2.00	0.24		0.75		\$ -	0.75	0.66	0.12	\$ 88.43	\$ 88.43	0%	\$ -	\$ -	\$ -	\$ 88.43	
104	0111 016 004 93000	14.21	1.00	14.21		0.66		\$ -	0.66	0.66	6.23	\$ 4,634.21	\$ 4,634.21	0%	\$ -	\$ -	\$ -	\$ 4,634.21	
105	0111 016 004 93300	0.37	2.00	0.74		0.75		\$ -	0.75	0.66	0.37	\$ 272.67	\$ 272.67	0%	\$ -	\$ -	\$ -	\$ 272.67	
106	0111 016 004 90000	14.07	1.00	14.07		0.64		\$ -	0.64	0.66	5.96	\$ 4,434.70	\$ 4,434.70	0%	\$ -	\$ -	\$ -	\$ 4,434.70	
107	0111 016 004 91000	0.31	2.00	0.62		0.75		\$ -	0.75	0.66	0.31	\$ 228.46	\$ 228.46	0%	\$ -	\$ -	\$ -	\$ 228.46	
108	0111 016 004 90500	0.49	2.00	0.98		0.75		\$ -	0.75	0.66	0.49	\$ 361.11	\$ 361.11	0%	\$ -	\$ -	\$ -	\$ 361.11	
109	0111 016 004 90600	0.42	2.00	0.84		0.75		\$ -	0.75	0.66	0.42	\$ 309.52	\$ 309.52	0%	\$ -	\$ -	\$ -	\$ 309.52	
Township of North Glengarry -- Roads/Other																			
River Road		0.33	4.00	1.32	N	1.00		\$ -	1.00	0.33	0.44	\$ 324.26	\$ 324.26	0%	\$ -	\$ -	\$ -	\$ 324.26	
Massiedale Road		0.41	4.00	1.64		0.60		\$ -	0.60	0.66	0.65	\$ 483.44	\$ 483.44	0%	\$ -	\$ -	\$ -	\$ 483.44	
Bureau Road		3.09	4.00	12.36	Y	0.66	4.05	\$ 1,221.48	0.66	1.00	8.12	\$ 6,044.51	\$ 7,265.99	0%	\$ 5,991.04	\$ -	\$ -	\$ 13,257.03	
N. 1/2 Concession Road 10		0.92	4.00	3.68	N	0.30		\$ -	0.30	1.00	1.10	\$ 821.82	\$ 821.82	0%	\$ -	\$ -	\$ -	\$ 821.82	
Township of South Glengarry -- Individual Owners																			
200	0101 001 018 25000	1.44	1.00	1.44	N	0.30		\$ -	0.30	1.00	0.43	\$ 321.58	\$ 321.58	100%	\$ -	\$ 106.12	\$ -	\$ 215.46	
201	0101 001 018 22200	4.21	1.00	4.21	N	0.30		\$ -	0.30	1.00	1.26	\$ 940.17	\$ 940.17	100%	\$ -	\$ 310.26	\$ -	\$ 629.92	
202	0101 001 018 21000	7.15	1.00	7.15	N	0.30		\$ -	0.30	1.00	2.15	\$ 1,596.73	\$ 1,596.73	100%	\$ -	\$ 526.92	\$ -	\$ 1,069.81	
203	0101 001 018 21100	0.54	2.00	1.08	N	0.30		\$ -	0.30	1.00	0.32	\$ 241.18	\$ 241.18	0%	\$ -	\$ -	\$ -	\$ 241.18	
204	0101 001 018 21090	0.45	2.00	0.90	N	0.30		\$ -	0.30	1.00	0.27	\$ 200.99	\$ 200.99	0%	\$ -	\$ -	\$ -	\$ 200.99	
205	0101 001 018 18100	1.49	1.00	1.49	N	0.30		\$ -	0.30	1.00	0.45	\$ 332.75	\$ 332.75	100%	\$ -	\$ 109.81	\$ -	\$ 222.94	
206	0101 001 018 11700	3.93	1.00	3.93		0.30		\$ -	0.30	1.00	1.18	\$ 877.65	\$ 877.65	0%	\$ -	\$ -	\$ -	\$ 877.65	
207	0101 001 018 11600	5.08	1.00	5.08		0.30		\$ -	0.30	1.00	1.52	\$ 1,134.46	\$ 1,134.46	0%	\$ -	\$ -	\$ -	\$ 1,134.46	
208	0101 001 018 11100	8.72	1.00	8.72		0.30		\$ -	0.30	1.00	2.62	\$ 1,947.35	\$ 1,947.35	100%	\$ -	\$ 642.62	\$ -	\$ 1,304.72	
209	0101 001 018 10110	1.86	1.00	1.86		0.30		\$ -	0.30	1.00	0.56	\$ 415.37	\$ 415.37	0%	\$ -	\$ -	\$ -	\$ 415.37	
210	0101 001 018 10100	1.07	1.00	1.07		0.30		\$ -	0.30	1.00	0.32	\$ 238.95	\$ 238.95	0%	\$ -	\$ -	\$ -	\$ 238.95	
211	0101 001 018 10200	0.16	1.00	0.16		0.30		\$ -	0.30	1.00	0.05	\$ 35.73	\$ 35.73	0%	\$ -	\$ -	\$ -	\$ 35.73	
Township of South Glengarry -- Roads/Other																			
S. 1/2 Concession Road 10		0.92	4.00	3.68	N	0.66		\$ -	0.66	1.00	2.45	\$ 1,820.55	\$ 1,820.55	0%	\$ -	\$ -	\$ -	\$ 1,820.55	
2nd Line Road		0.19	4.00	0.76		0.89		\$ -	0.89	1.00	0.68	\$ 502.51	\$ 502.51	0%	\$ -	\$ -	\$ -	\$ 502.51	
County of Stormont Dundas and Glengarry -- Roads/Other																			
Glen Robertson Road (Cty. Rd. 10)		0.41	4.00	1.64	N	0.79		\$ -	0.79	0.66	0.85	\$ 633.08	\$ 633.08	0%	\$ -	\$ -	\$ -	\$ 633.08	
Total		733.59		762.03				291.79	\$88,071.81			354.94	\$ 264,215.42	\$ 352,287.23		\$ 5,991.04	\$ 91,990.46	\$ 37,773.67	\$ 228,514.14

**SCHEDULE C
FOR THE CONSTRUCTION AND FUTURE MAINTENANCE OF SECTION 2 OF THE CHENIER-JEAUROND MUNICIPAL DRAIN**



Project No.: B15041
Date: AD#1 APR-17

ID	Roll No.	Area	Land Use Factor	Factored Area	Backs on Drain	Distance Factor	Benefit Factored Area	Benefit Cost	Distance Factor	Sub-Section Factor	Outlet Factored Area	Outlet Cost	Sub-Total Cost	ADIP Eligibility	Special Benefit & Utilities	1/3 Grant	Allowance	Total Net Cost
		S2 Total		S2 Total		S2			S2								S2	
Township of North Glengarry -- Individual Landowners																		
18	0111 016 002 15000	0.47	2.00	0.94	N	0.50		\$ -	0.50	0.33	0.16	\$ 155.81	\$ 155.81	0%	\$ -	\$ -	\$ -	\$ 155.81
19	0111 016 002 15800	12.55	1.00	12.55	N	0.62		\$ -	0.62	0.33	2.57	\$ 2,577.46	\$ 2,577.46	0%	\$ -	\$ -	\$ -	\$ 2,577.46
20	0111 016 002 15850	1.47	2.00	2.94	N	0.75		\$ -	0.75	0.33	0.73	\$ 730.97	\$ 730.97	0%	\$ -	\$ -	\$ -	\$ 730.97
21	0111 016 006 16000	25.01	1.00	25.01	Y	0.86	21.53	\$ 5,917.27	0.86	0.33	7.11	\$ 7,138.15	\$ 13,055.42	100%	\$ -	\$ 4,308.29	\$ 1,068.16	\$ 7,678.98
22	0111 016 002 19000	0.58	2.00	1.16	N	0.50		\$ -	0.50	0.33	0.19	\$ 192.27	\$ 192.27	0%	\$ -	\$ -	\$ -	\$ 192.27
23	0111 016 002 18900	0.12	2.00	0.24	N	0.50		\$ -	0.50	0.33	0.04	\$ 39.78	\$ 39.78	0%	\$ -	\$ -	\$ -	\$ 39.78
24	0111 016 002 17000	37.51	1.00	37.51	Y	0.78	29.43	\$ 8,088.24	0.78	0.33	9.71	\$ 9,757.05	\$ 17,845.29	100%	\$ -	\$ 5,888.95	\$ 1,965.41	\$ 9,990.94
25	0111 016 002 15850	0.99	2.00	1.98	N	0.75		\$ -	0.75	0.33	0.49	\$ 492.29	\$ 492.29	0%	\$ -	\$ -	\$ -	\$ 492.29
26	0111 016 002 14000	22.09	1.00	22.09	Y	0.73	16.15	\$ 4,437.39	0.73	0.33	5.33	\$ 5,352.93	\$ 9,790.32	0%	\$ -	\$ -	\$ 1,068.16	\$ 8,722.16
27	0111 016 002 14000	20.57	1.00	20.57	N	0.70		\$ -	0.70	0.33	4.76	\$ 4,777.00	\$ 4,777.00	0%	\$ -	\$ -	\$ -	\$ 4,777.00
28	0111 016 002 13000	21.07	1.00	21.07	P	0.86	13.56	\$ 3,725.86	0.86	0.33	5.97	\$ 5,992.80	\$ 9,718.66	0%	\$ -	\$ -	\$ 2,767.29	\$ 6,951.37
29	0111 016 002 12000	33.21	1.00	33.21	N	0.65		\$ -	0.65	0.66	14.31	\$ 14,379.07	\$ 14,379.07	100%	\$ -	\$ 4,745.09	\$ -	\$ 9,633.98
30	0111 016 002 12700	8.87	1.00	8.87	Y	0.91	8.08	\$ 2,219.75	0.91	0.66	5.33	\$ 5,355.48	\$ 7,575.23	0%	\$ -	\$ -	\$ 747.71	\$ 6,827.52
31	0111 016 002 12600	8.67	1.00	8.67	Y	0.93	8.03	\$ 2,206.98	0.93	0.66	5.30	\$ 5,324.67	\$ 7,531.64	0%	\$ -	\$ -	\$ 939.98	\$ 6,591.67
32	0111 016 002 11000	3.24	1.00	3.24	N	0.83		\$ -	0.83	0.66	1.77	\$ 1,776.87	\$ 1,776.87	100%	\$ -	\$ 586.37	\$ -	\$ 1,190.50
33	0111 016 002 09000	9.39	1.00	9.39	Y	0.94	8.87	\$ 2,436.85	0.94	0.66	5.85	\$ 5,879.26	\$ 8,316.11	0%	\$ -	\$ -	\$ 769.07	\$ 7,547.03
34	0111 016 002 08000	3.70	1.00	3.70	N	0.89		\$ -	0.89	0.66	2.16	\$ 2,172.26	\$ 2,172.26	100%	\$ -	\$ 716.85	\$ -	\$ 1,455.42
35	0111 016 002 10000	7.92	1.00	7.92	Y	0.93	7.34	\$ 2,017.08	0.93	0.66	4.84	\$ 4,866.51	\$ 6,883.59	0%	\$ -	\$ -	\$ 854.52	\$ 6,029.06
36	0111 016 002 08600	1.75	1.00	1.75	N	0.92		\$ -	0.92	1.00	1.61	\$ 1,619.86	\$ 1,619.86	0%	\$ -	\$ -	\$ -	\$ 1,619.86
37	0111 016 002 07050	1.45	1.00	1.45	N	0.94		\$ -	0.94	1.00	1.36	\$ 1,368.72	\$ 1,368.72	0%	\$ -	\$ -	\$ -	\$ 1,368.72
38	0111 016 002 03300	7.43	1.00	7.43	Y	0.95	7.02	\$ 1,929.83	0.95	1.00	7.02	\$ 7,054.55	\$ 8,984.38	0%	\$ -	\$ -	\$ 775.46	\$ 8,208.92
39	0111 016 002 07000	3.35	1.00	3.35	N	0.96		\$ -	0.96	1.00	3.21	\$ 3,222.14	\$ 3,222.14	0%	\$ -	\$ -	\$ -	\$ 3,222.14
40	0111 016 002 03000	7.11	1.00	7.11	Y	0.95	6.77	\$ 1,861.13	0.95	1.00	6.77	\$ 6,803.41	\$ 8,664.53	0%	\$ -	\$ -	\$ 811.80	\$ 7,852.74
41	0111 016 002 02000	5.71	1.00	5.71	N	1.00		\$ -	1.00	1.00	5.71	\$ 5,736.06	\$ 5,736.06	100%	\$ -	\$ 1,892.90	\$ -	\$ 3,843.16
42	0111 016 002 01000	10.51	1.00	10.51	Y	0.94	9.90	\$ 2,719.90	0.94	1.00	9.90	\$ 9,942.67	\$ 12,662.57	100%	\$ -	\$ 4,178.65	\$ 1,459.39	\$ 7,024.53

SCHEDULE C
FOR THE CONSTRUCTION AND FUTURE MAINTENANCE OF SECTION 2 OF THE CHENIER-JEAUROND MUNICIPAL DRAIN



Project No.: B15041
 Date: AD#1 APR-17

ID	Roll No.	Area	Land Use Factor	Factored Area	Backs on Drain	Distance Factor	Benefit Factored Area	Benefit Cost	Distance Factor	Sub-Section Factor	Outlet Factored Area	Outlet Cost	Sub-Total Cost	ADIP Eligibility	Special Benefit & Utilities	1/3 Grant	Allowance	Total Net Cost
		S2 Total		S2 Total		S2		S2	S2								S2	
Township of North Glengarry -- Roads/Other																		
	Bureau Road	1.55	4.00	6.20	Y	0.80	4.95	\$ 1,360.29	0.80	0.00	0.00	\$ -	\$ 1,360.29	0%	\$ -	\$ -	\$ -	\$ 1,360.29
	N. 1/2 Concession Road 10	0.52	4.00	2.08	N	0.30		\$ -	0.30	0.33	0.21	\$ 206.86	\$ 206.86	0%	\$ -	\$ -	\$ -	\$ 206.86
Township of South Glengarry -- Individual Owners																		
	205 0101 001 018 18100	0.96	1.00	0.96	N	0.30		\$ -	0.30	0.50	0.14	\$ 144.66	\$ 144.66	100%	\$ -	\$ 47.74	\$ -	\$ 96.92
	206 0101 001 018 11700	3.93	1.00	3.93	N	0.30		\$ -	0.30	0.50	0.59	\$ 592.19	\$ 592.19	0%	\$ -	\$ -	\$ -	\$ 592.19
	207 0101 001 018 11600	5.08	1.00	5.08	N	0.30		\$ -	0.30	0.50	0.76	\$ 765.48	\$ 765.48	0%	\$ -	\$ -	\$ -	\$ 765.48
	208 0101 001 018 11100	8.72	1.00	8.72	N	0.30		\$ -	0.30	0.50	1.31	\$ 1,313.97	\$ 1,313.97	100%	\$ -	\$ 433.61	\$ -	\$ 880.36
	209 0101 001 018 10110	1.86	1.00	1.86	N	0.30		\$ -	0.30	0.50	0.28	\$ 280.27	\$ 280.27	0%	\$ -	\$ -	\$ -	\$ 280.27
	210 0101 001 018 10100	1.07	1.00	1.07	N	0.30		\$ -	0.30	0.50	0.16	\$ 161.23	\$ 161.23	0%	\$ -	\$ -	\$ -	\$ 161.23
	211 0101 001 018 10200	0.16	1.00	0.16	N	0.30		\$ -	0.30	0.50	0.02	\$ 24.11	\$ 24.11	0%	\$ -	\$ -	\$ -	\$ 24.11
Township of South Glengarry -- Roads/Other																		
	S. 1/2 Concession Road 10	0.52	4.00	2.08	N	0.30		\$ -	0.30	0.66	0.41	\$ 413.72	\$ 413.72	0%	\$ -	\$ -	\$ -	\$ 413.72
	2nd Line Road	0.19	4.00	0.76	N	0.30		\$ -	0.30	0.66	0.15	\$ 151.17	\$ 151.17	0%	\$ -	\$ -	\$ -	\$ 151.17
Total		279.30						141.63			116.23	\$ 116,761.68	\$ 155,682.24		\$ -	\$ 22,798.44	\$ 13,226.94	\$ 119,656.86

**SCHEDULE D
FOR THE CONSTRUCTION AND FUTURE MAINTENANCE OF BRANCH No. 1 OF THE CHENIER-JEAUROND MUNICIPAL DRAIN**



Project No.: B15041
Date: AD#1 APR-17

ID	Roll No.	Area	Land Use Factor	Factored Area	Backs on Drain	Distance Factor	Benefit Factored Area	Benefit Cost	Distance Factor	Sub-Section Factor	Outlet Factored Area	Outlet Cost	Sub-Total Cost	ADIP Eligibility	Special Benefit & Utilities	1/3 Grant	Allowance	Total Net Cost	
		BR 1 Total		BR 1 Total	BR 1	BR 1			BR 1	BR 1							BR 1		BR 1
Township of North Glengarry -- Individual Landowners																			
11	0111 016 002 24000	3.00	1.00	3.00	Y	1.00	3.00	\$ 904.63	1.00	1.00	3.00	\$ 1,226.14	\$ 2,130.77	100%	\$ -	\$ 703.15	\$ 2,186.69	(\$ 759.08)	
100	0111 016 004 98000	2.49	1.00	2.49	N	0.75		\$ -	0.75	1.00	1.87	\$ 763.27	\$ 763.27	100%	\$ -	\$ 251.88	\$ -	\$ 511.39	
101	0111 016 004 93200	0.37	2.00	0.74	N	0.75		\$ -	0.75	1.00	0.56	\$ 226.84	\$ 226.84	0%	\$ -	\$ -	\$ -	\$ 226.84	
102	0111 016 004 93100	0.59	2.00	1.18	N	1.00		\$ -	1.00	1.00	1.18	\$ 482.28	\$ 482.28	0%	\$ -	\$ -	\$ -	\$ 482.28	
103	0111 016 004 94000	0.12	2.00	0.24	N	1.00		\$ -	1.00	1.00	0.24	\$ 98.09	\$ 98.09	0%	\$ -	\$ -	\$ -	\$ 98.09	
104	0111 016 004 93000	14.21	1.00	14.21	Y	0.81	11.46	\$ 3,454.92	0.81	1.00	11.46	\$ 4,682.83	\$ 8,137.75	0%	\$ -	\$ -	\$ 975.60	\$ 7,162.15	
105	0111 016 004 93300	0.37	2.00	0.74	N	1.00		\$ -	1.00	1.00	0.74	\$ 302.45	\$ 302.45	0%	\$ -	\$ -	\$ -	\$ 302.45	
106	0111 016 004 90000	14.07	1.00	14.07	N	0.76		\$ -	0.76	1.00	10.68	\$ 4,364.07	\$ 4,364.07	0%	\$ -	\$ -	\$ -	\$ 4,364.07	
107	0111 016 004 91000	0.31	2.00	0.62	N	0.75		\$ -	0.75	1.00	0.47	\$ 190.05	\$ 190.05	0%	\$ -	\$ -	\$ -	\$ 190.05	
108	0111 016 004 90500	0.49	2.00	0.98	N	0.75		\$ -	0.75	1.00	0.74	\$ 300.40	\$ 300.40	0%	\$ -	\$ -	\$ -	\$ 300.40	
109	0111 016 004 90600	0.42	2.00	0.84	N	0.75		\$ -	0.75	1.00	0.63	\$ 257.49	\$ 257.49	0%	\$ -	\$ -	\$ -	\$ 257.49	
Township of North Glengarry -- Roads/Other																			
Massiedale Road		0.41	4.00	1.64	N	0.75		\$ -	0.75	1.00	1.23	\$ 502.72	\$ 502.72	0%	\$ -	\$ -	\$ -	\$ 502.72	
County of Stormont Dundas and Glengarry -- Roads/Other																			
Glen Robertson Road (Cty. Rd. 10)		0.19	4.00	0.76	Y	0.84	0.64	\$ 193.36	0.84	1.00	0.64	\$ 262.09	\$ 455.45	0%	\$ 2,410.96	\$ -	\$ -	\$ 2,866.41	
Total		37.04		41.51				15.10	\$ 4,552.91			33.42	\$ 13,658.72	\$ 18,211.63		\$ 2,410.96	\$ 955.03	\$ 3,162.29	\$ 16,505.27

Appendix B

Schedule of Allowances And Detailed Cost Estimate

**SCHEDULE E
ALLOWANCES FOR LANDS USED IN THE CONSTRUCTION OF
THE CHENIER-JEAUROND MUNICIPAL DRAIN**

Project No.: B15041
Date: AD#1 APR-17

ID	Roll No.	Owner(s)	Land Allowance						Total Value
			S1		S2		BR 1		
			Area	Value	Area	Value	Area	Value	
<i>Township of North Glengarry -- Individual Landowners</i>									
1	0111 016 002 30000	BOUCIER, MADELINE	0.88	\$ 3,237.50	0.00	\$ -	0.00	\$ -	\$ 3,237.50
4	0111 016 002 29000	BOUCIER, JEAN-GUY (ESTATE)	0.54	\$ 1,998.00	0.00	\$ -	0.00	\$ -	\$ 1,998.00
5	0111 016 002 28001	BOUCIER, MICHEL BOUCIER JULIE	0.66	\$ 2,442.00	0.00	\$ -	0.00	\$ -	\$ 2,442.00
7	0111 016 002 27000	CARRIER, STEPHANE	0.22	\$ 814.00	0.00	\$ -	0.00	\$ -	\$ 814.00
8	0111 016 002 26000	VAN STOKKMAN, JULIANA	0.15	\$ 555.00	0.00	\$ -	0.00	\$ -	\$ 555.00
10	0111 016 002 23000	MACPHERSON, WENDY	0.15	\$ 555.00	0.00	\$ -	0.00	\$ -	\$ 555.00
11	0111 016 002 24000	MACPHERSON, WENDY	0.23	\$ 851.00	0.00	\$ -	0.33	\$ 1,202.50	\$ 2,053.50
12	0111 016 002 21000	MOORE, RICHARD MOORE, LAURA MAY	0.18	\$ 666.00	0.00	\$ -	0.00	\$ -	\$ 666.00
13	0111 016 002 22000	LAFRAMBOISE, MAURICE	0.11	\$ 416.25	0.00	\$ -	0.00	\$ -	\$ 416.25
14	0111 016 002 20000	CADDELL, ELIZABETH EDWARDS, BRIAN	0.10	\$ 370.00	0.00	\$ -	0.00	\$ -	\$ 370.00
16	0111 016 002 19600	EWASCHUCK, RANDALL EUGENE	0.11	\$ 416.25	0.00	\$ -	0.00	\$ -	\$ 416.25
21	0111 016 006 16000	SEGUIN, MARY YVETTE SEGUIN, CHARLES	0.00	\$ -	0.13	\$ 462.50	0.00	\$ -	\$ 462.50
24	0111 016 002 17000	LAFRAMBOISE, MAURICE	0.00	\$ -	0.23	\$ 851.00	0.00	\$ -	\$ 851.00
26	0111 016 002 14000	PETOSA, ELENA MARIE PETOSA, ANGELO MICHEL	0.00	\$ -	0.13	\$ 462.50	0.00	\$ -	\$ 462.50
28	0111 016 002 13000	MCRAE, MONA ELIZABETH MCRAE, MICHAEL ROBIN	0.00	\$ -	0.18	\$ 647.50	0.00	\$ -	\$ 647.50
30	0111 016 002 12700	MCGRATH, PHILIP	0.00	\$ -	0.09	\$ 323.75	0.00	\$ -	\$ 323.75
31	0111 016 002 12600	ST. LAURENT, JUDITH	0.00	\$ -	0.11	\$ 407.00	0.00	\$ -	\$ 407.00
33	0111 016 002 09000	JEAUROOND, PIERRE YVES MENARD-JEAUROOND,	0.00	\$ -	0.09	\$ 333.00	0.00	\$ -	\$ 333.00
35	0111 016 002 10000	TISZAI, JAAKELAIEN RETVA VILKO, PAUL	0.00	\$ -	0.10	\$ 370.00	0.00	\$ -	\$ 370.00
38	0111 016 002 03300	COGLEY, JANET DESCHENES, DEAN	0.00	\$ -	0.10	\$ 351.50	0.00	\$ -	\$ 351.50
40	0111 016 002 03000	MYRIAM, GAYE WALL, EDWARD	0.00	\$ -	0.10	\$ 351.50	0.00	\$ -	\$ 351.50
42	0111 016 002 01000	MACDONALD, AUDREY MACDONALD, RONALD	0.00	\$ -	0.20	\$ 732.60	0.00	\$ -	\$ 732.60
104	0111 016 004 93000	LEVAC, GILLES	0.00	\$ -	0.00	\$ -	0.15	\$ 536.50	\$ 536.50
Total			3.33	\$ 12,321.00	1.43	\$ 5,292.85	0.47	\$ 1,739.00	\$ 19,352.85

SCHEDULE F
ALLOWANCES FOR CROPS LOST IN THE CONSTRUCTION OF
SECTIONS OF THE CHENIER-JEAUROND MUNICIPAL DRAIN

Project No: B15041

Date: AD#1 APR-17

ID	Roll No.	Crop Allowance						Total Value
		S1		S2		BR 1		
		Area	Total	Area	Total	Area	Total	
<i>Township of North Glengarry -- Individual Landowners</i>								
1	0111 016 002 30000	2.63	\$ 7,949.23	0.00	\$ -	0.00	\$ -	\$ 7,949.23
4	0111 016 002 29000	1.35	\$ 4,088.17	0.00	\$ -	0.00	\$ -	\$ 4,088.17
5	0111 016 002 28001	1.32	\$ 3,997.33	0.00	\$ -	0.00	\$ -	\$ 3,997.33
7	0111 016 002 27000	0.77	\$ 2,331.77	0.00	\$ -	0.00	\$ -	\$ 2,331.77
8	0111 016 002 26000	0.53	\$ 1,589.85	0.00	\$ -	0.00	\$ -	\$ 1,589.85
10	0111 016 002 23000	0.15	\$ 454.24	0.00	\$ -	0.00	\$ -	\$ 454.24
11	0111 016 002 24000	0.23	\$ 696.50	0.00	\$ -	0.33	\$ 984.19	\$ 1,680.69
12	0111 016 002 21000	0.36	\$ 1,090.18	0.00	\$ -	0.00	\$ -	\$ 1,090.18
13	0111 016 002 22000	0.23	\$ 681.36	0.00	\$ -	0.00	\$ -	\$ 681.36
14	0111 016 002 20000	0.40	\$ 1,211.31	0.00	\$ -	0.00	\$ -	\$ 1,211.31
16	0111 016 002 19600	0.45	\$ 1,362.72	0.00	\$ -	0.00	\$ -	\$ 1,362.72
21	0111 016 006 16000	0.00	\$ -	0.20	\$ 605.66	0.00	\$ -	\$ 605.66
24	0111 016 002 17000	0.00	\$ -	0.37	\$ 1,114.41	0.00	\$ -	\$ 1,114.41
26	0111 016 002 14000	0.00	\$ -	0.20	\$ 605.66	0.00	\$ -	\$ 605.66
28	0111 016 002 13000	0.00	\$ -	0.70	\$ 2,119.79	0.00	\$ -	\$ 2,119.79
30	0111 016 002 12700	0.00	\$ -	0.14	\$ 423.96	0.00	\$ -	\$ 423.96
31	0111 016 002 12600	0.00	\$ -	0.18	\$ 532.98	0.00	\$ -	\$ 532.98
33	0111 016 002 09000	0.00	\$ -	0.14	\$ 436.07	0.00	\$ -	\$ 436.07
35	0111 016 002 10000	0.00	\$ -	0.16	\$ 484.52	0.00	\$ -	\$ 484.52
38	0111 016 002 03300	0.00	\$ -	0.14	\$ 423.96	0.00	\$ -	\$ 423.96
40	0111 016 002 03000	0.00	\$ -	0.15	\$ 460.30	0.00	\$ -	\$ 460.30
42	0111 016 002 01000	0.00	\$ -	0.24	\$ 726.79	0.00	\$ -	\$ 726.79
104	0111 016 004 93000	0.00	\$ -	0.00	\$ -	0.15	\$ 439.10	\$ 439.10
Total		8.41	\$ 25,452.67	2.62	\$ 7,934.09	0.47	\$ 1,423.29	\$ 34,810.04

**DETAILED COST ESTIMATE
SECTION 1
THE CHENIER-JEAUROND MUNICIPAL DRAIN**

**Robinson
Consultants**

Project No: B15041
Date: AD#1 APR-17

Type	Item No.	Item	Unit	Cost/Unit	Quantity	Total
Section 1 (Sta 0+000 to Sta 3+755)						3,755.00m
Construction						
Construction	Site Preparation Activities					
		Mobilization	LS	\$ 3,750.00	60%	\$ 2,250.00
		Erosion and Sediment Control Plan	LS	\$ 3,000.00	60%	\$ 1,800.00
		Erosion and Sediment Control Measures -- Minimum as Follows: - (2) Rock Check Dam c/w Sediment Trap - (6) Straw Bale Dam c/w Sediment Trap - Additional Silt Fence (where required)	LS	\$ 4,600.00	60%	\$ 2,760.00
		Clearing/Grubbing (including individual tree removals)	LS	\$ 2,500.00	1.00	\$ 2,500.00
		Fence removal and reinstatement	m	\$ 30.00	225.00	\$ 6,750.00
	Excavation Activities					
		Earth Ex. - Ditch (full construction) - Incl. Spreading	m ³	\$ 5.25	11690.00	\$ 61,372.50
		Rock Excavation (hydraulic ram)	m ³	\$ 150.00	15.00	\$ 2,250.00
		Access Culvert(s) -- 1630x1120mm CSPA	m	\$ 535.00	80.00	\$ 42,800.00
		Access Culvert(s) -- 1500mm dia CSP	m	\$ 460.00	40.00	\$ 18,400.00
		Access Culvert(s) -- 1000mm dia CSP	m	\$ 325.00	20.00	\$ 6,500.00
	Reinstatement Activities					
		Tile Outlet Restoration/Protection	each	\$ 500.00	12.00	\$ 6,000.00
		Hand Seeding	m ²	\$ 0.50	37750.00	\$ 18,875.00
		Rock Protection - Erosion Control	m ²	\$ 27.50	900.00	\$ 24,750.00
		Rock Protection - Culvert End Treatments	each	\$ 825.00	26.00	\$ 21,450.00
		Sub-Total - Construction Costs				\$ 218,457.50
		Contingency Allowance - Construction				\$ 20,000.00
		Total - Construction Costs				\$ 238,457.50
Engineering/Administration						
		Engineer's Report (apportioned by Section)	LS	\$ 87,000.00	60%	\$ 52,200.00
		Contract Administration/Inspection	LS	\$ 29,200.00	60%	\$ 17,520.00
		Sub-Total - Routine Engineering				\$ 69,720.00
Total - Engineering/Administration						\$ 69,720.00
Other						
		Carrying Cost(s)	L.S	(4% OF Costs Above)		\$ 12,327.10
		Allowances	LS	(See Schedule)		\$ 37,773.67
Total - Other Costs						\$ 50,100.77
Sub-Total - Net Costs						\$ 358,278.27
Special Benefits						
Road Authority (Twp. of North Glengarry) Section 1		<i>Under Section 69 of the Drainage Act, the "Road Authority" has the option to construct the required drainage works within the Road Right-Of-Way. It is assumed for the purpose of this estimate that the Road Authority will exercise this option. As such, the items required to complete the Road Authority works have been excluded from this estimate. However, the Engineering/Administration and Other fees, associated with the required Road Authority works, where required downstream of the works as noted below are considered payable as a Special Benefit by the Township Road Authority. It is estimated that 5% of the costs noted below are due to the required Road Authority Works.</i>				
		Engineering/Administration and Other	LS	\$ 119,820.77	5%	\$ 5,991.04
		Sub-Total - Road Authority Costs				\$ 5,991.04
Total - Special Benefits						\$ 5,991.04
Total Net Costs - Section 1 (For Distribution to Properties)						\$ 352,287.23

**DETAILED COST ESTIMATE
SECTION 2
THE CHENIER-JEAUROND MUNICIPAL DRAIN**

**Robinson
Consultants**

Project No: B15041
Date: AD#1 APR-17

Type	Item No.	Item	Unit	Cost/Unit	Quantity	Total	
Section 2 (Sta 3+755 to Sta 6+534.8)						2,779.80m	
Construction							
Construction	Site Preparation Activities						
		Mobilization	LS	\$ 3,750.00	35%	\$ 1,312.50	
		Erosion and Sediment Control Plan	LS	\$ 3,000.00	35%	\$ 1,050.00	
		Erosion and Sediment Control Measures -- Minimum as Follows: - (3) Rock Check Dam c/w Sediment Trap - (6) Straw Bale Dam c/w Sediment Trap - Additional Silt Fence (where required)	LS	\$ 4,600.00	35%	\$ 1,610.00	
		Clearing/Grubbing (including individual tree removals)	LS	\$ 8,000.00	1.00	\$ 8,000.00	
		Fence removal and reinstatement	m	\$ 30.00	180.00	\$ 5,400.00	
	Excavation Activities						
		Earth Ex. - Ditch (full construction) - Incl. Spreading	m ³	\$ 5.25	1615.00	\$ 8,478.75	
		Rock Excavation (hydraulic ram)	m ³	\$ 150.00	30.00	\$ 4,500.00	
		Access Culvert(s) -- 1630X1120 CSPA	m	\$ 535.00	10.00	\$ 5,350.00	
		Access Culvert(s) -- 1200 dia CSP	m	\$ 435.00	10.00	\$ 4,350.00	
		Access Culvert(s) -- 800 dia CSP	m	\$ 348.00	20.00	\$ 6,960.00	
		Access Culvert(s) -- 600 dia CSP	m	\$ 282.00	10.00	\$ 2,820.00	
	Reinstatement Activities						
		Tile Outlet Restoration/Protection	each	\$ 500.00	5.00	\$ 2,500.00	
		Hand Seeding	m ²	\$ 0.50	22450.00	\$ 11,225.00	
		Rock Protection - Erosion Control	m ²	\$ 27.50	600.00	\$ 16,500.00	
		Rock Protection - Culvert End Treatments	each	\$ 825.00	10.00	\$ 8,250.00	
		Sub-Total - Construction Costs				\$ 88,306.25	
		Contingency Allowance - Construction				\$ 8,000.00	
		Total - Construction Costs				\$ 96,306.25	
	Engineering/Administration						
			Engineer's Report (apportioned by Section)	LS	\$ 87,000.00	35%	\$ 30,450.00
			Contract Administration/Inspection	LS	\$ 29,200.00	35%	\$ 10,220.00
			Sub-Total - Engineering				\$ 40,670.00
Total - Engineering/Administration						\$ 40,670.00	
Other							
		Carrying Cost(s)	LS	(4% OF Costs Above)		\$ 5,479.05	
		Allowances	LS	(See Schedule)		\$ 13,226.94	
Total - Other Costs						\$ 18,705.99	
Sub-Total - Net Costs						\$ 155,682.24	
Total - Special Benefits						\$ -	
Total Net Costs - Section 1 (For Distribution to Properties)						\$ 155,682.24	

**DETAILED COST ESTIMATE
BRANCH No. 1 (Sta 10+000 to Sta 10+350)
THE CHENIER-JEAUROND MUNICIPAL DRAIN**

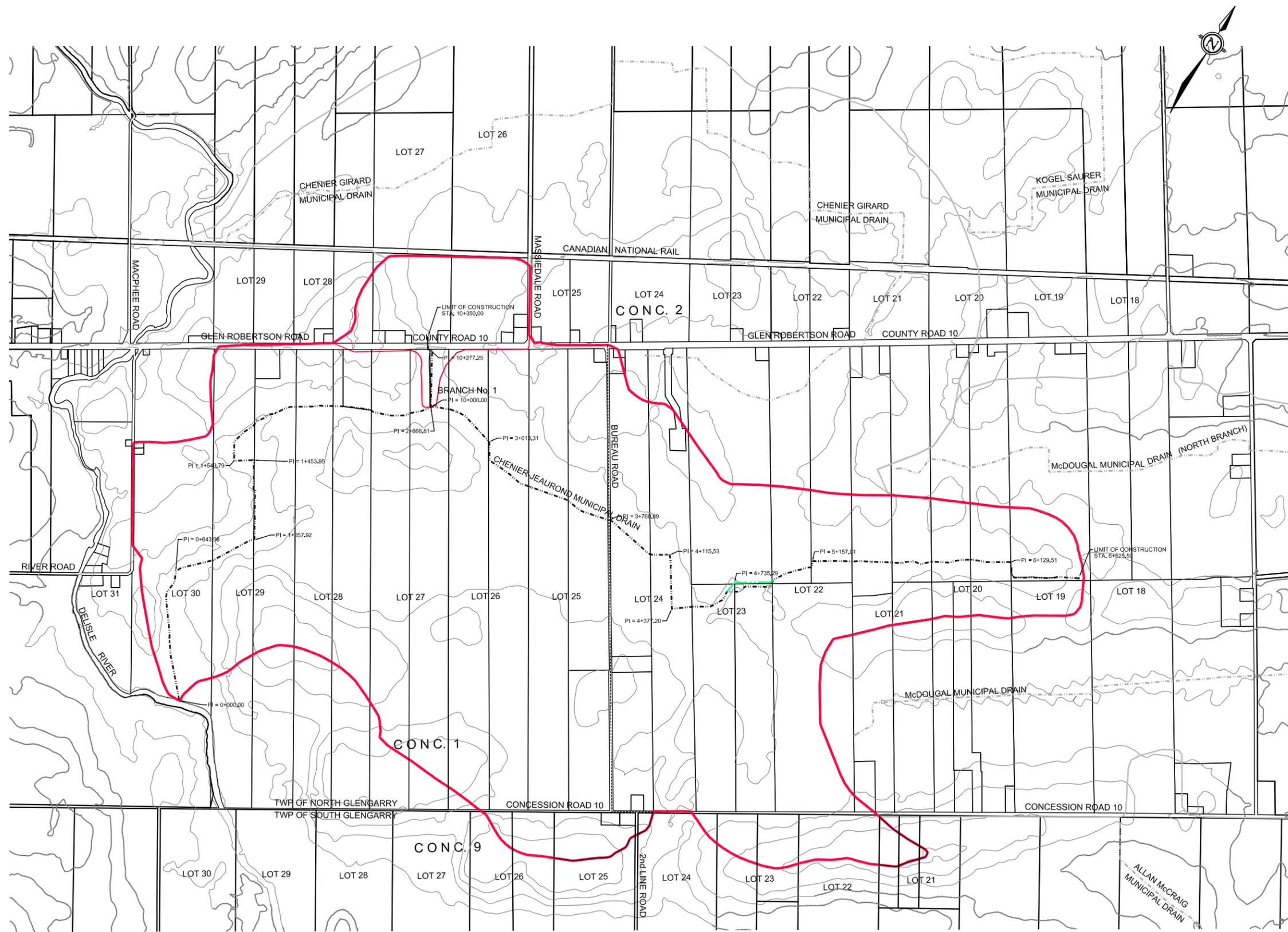


Project No: B15041
Date: AD#1 APR-17

Type	Item No.	Item	Unit	Cost/Unit	Quantity	Total	
Branch No. 1 (Sta 10+000 to Sta 10+350)						350.00m	
Construction							
Routine Construction	Site Preparation Activities						
			Mobilization	LS	\$ 3,750.00	5%	\$ 187.50
			Erosion and Sediment Control Plan	LS	\$ 3,000.00	5%	\$ 150.00
			Erosion and Sediment Control Measures -- Minimum as Follows: - (3) Rock Check Dam c/w Sediment Trap - (6) Straw Bale Dam c/w Sediment Trap - Additional Silt Fence (where required)	LS	\$ 4,600.00	5%	\$ 230.00
			Clearing/Grubbing (including individual tree removals)	LS	\$ 500.00	1.00	\$ 500.00
			Fence removal and reinstatement	m	\$ 30.00	40.00	\$ 1,200.00
	Excavation Activities						
			Earth Ex. - Ditch (full construction) - Incl. Spreading	m ³	\$ 5.25	265.00	\$ 1,391.25
			Access Culvert(s) -- 500 dia CSP	m	\$ 192.00	10.00	\$ 1,920.00
	Reinstatement Activities						
			Tile Outlet Restoration/Protection	each	\$ 500.00	0.00	\$ -
			Hand Seeding	m ²	\$ 0.50	3500.00	\$ 1,750.00
			Rock Protection - Erosion Control	m ²	\$ 27.50	0.00	\$ -
			Rock Protection - Culvert End Treatments	each	\$ 825.00	2.00	\$ 1,650.00
			Sub-Total - Construction Costs				\$ 8,978.75
		Contingency Allowance - Construction				\$ 2,000.00	
		Total - Construction Costs				\$ 10,978.75	
Engineering/Administration							
		Engineer's Report (apportioned by Section)	LS	\$ 87,000.00	5%	\$ 4,350.00	
		Contract Administration/Inspection	LS	\$ 29,200.00	5%	\$ 1,460.00	
		Sub-Total - Engineering				\$ 5,810.00	
Total - Engineering/Administration						\$ 5,810.00	
Other							
		Carrying Cost(s)	L.S	(4% OF Costs Above)		\$ 671.55	
		Allowances	LS	(See Schedule)		\$ 3,162.29	
Total - Other Costs						\$ 3,833.84	
Sub-Total - Net Costs						\$ 20,622.59	
Special Benefits							
Road Authority (Twp. of North Glengarry) Section 1		<i>Under Section 69 of the Drainage Act, the "Road Authority" has the option to construct the required drainage works within the Road Right-Of-Way. It is assumed for the purpose of this estimate that the Road Authority will exercise this option. As such, the items required to complete the Road Authority works have been excluded from this estimate. However, the Engineering/Administration and Other fees, associated with the required Road Authority works, where required downstream of the works as noted below are considered payable as a Special Benefit by the Township Road Authority. It is estimated that 25% of the costs noted below are due to the required Road Authority Works.</i>					
		Engineering/Administration and Other	LS	\$ 9,643.84	25%	\$ 2,410.96	
		Sub-Total - Road Authority Costs					\$ 2,410.96
Total - Special Benefits						\$ 2,410.96	
Total Net Costs - Section 1 (For Distribution to Properties)						\$ 18,211.63	

Appendix C

Drawings and Details

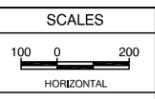


LEGEND

	PROPERTY LINE
	EXISTING CONSTRUCTED DRAINS
	MUNICIPAL DRAIN
	DRAINAGE AREA BOUNDARY
	BRANCH DRAINAGE AREA BOUNDARY
	ADJACENT DRAINAGE AREA BOUNDARY
	RELOCATED DRAIN



No.	DATE	REVISION	BY	No.	DATE	REVISION	BY
1	09.02.17	ISSUED FOR DISTRIBUTION	AJR				
2	20.04.17	ADDENDUM No. 1	AJR				



Robinson
Consultants

CONSULTING ENGINEERS
350 PALLADIUM DRIVE
KANATA, ONTARIO K2V 1A8
TELEPHONE (613) 592-6060

DESIGN	LF
CHECKED	AJR
DRAWN	JHB
CHECKED	LF
APPROVED	AJR

TOWNSHIP OF NORTH GLENGARRY

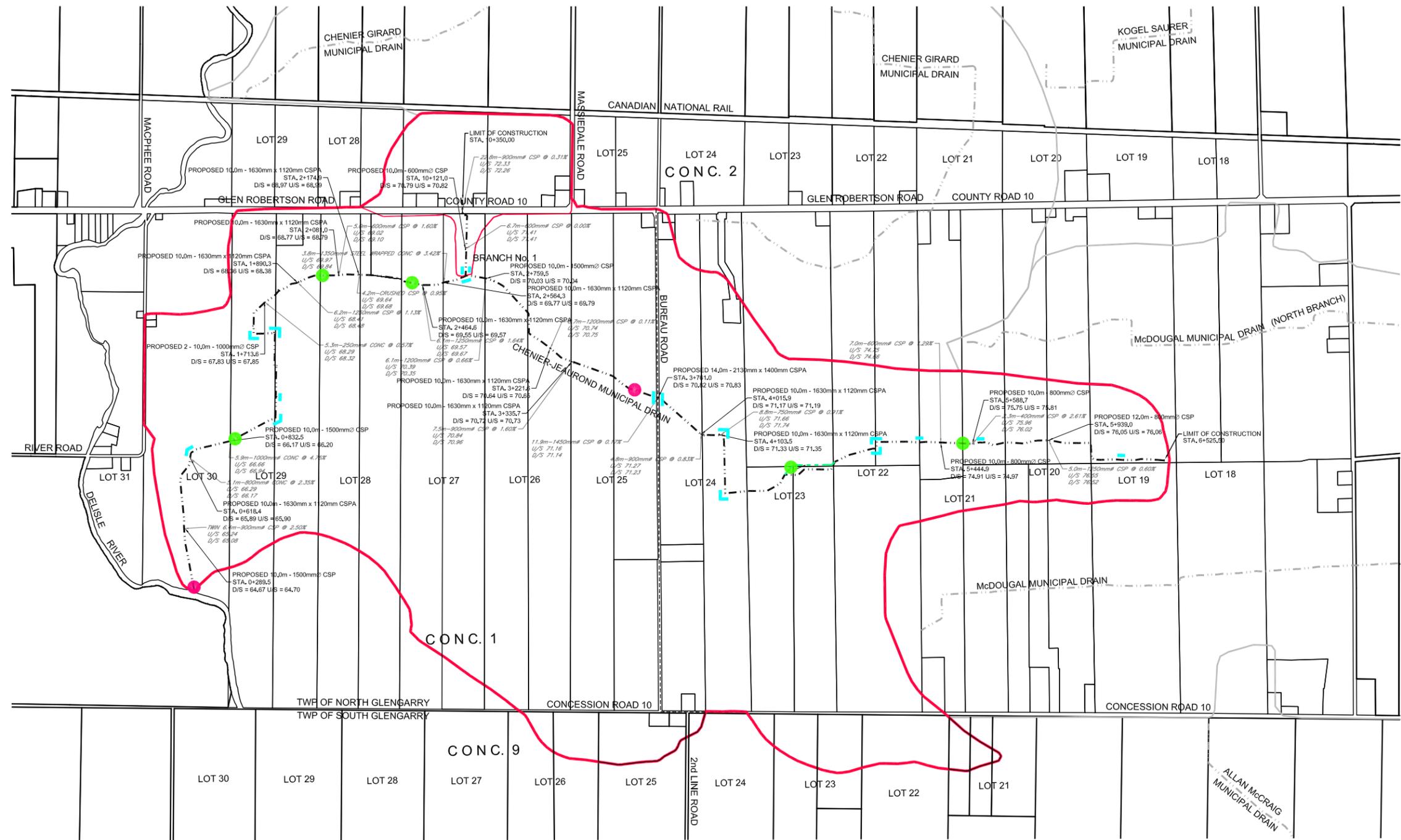
**CHENIER - JEUROND
MUNICIPAL DRAIN**

DRAINAGE AREA PLAN

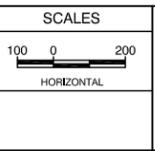
PROJECT No.	15041
CONTRACT No.	
DATED	APRIL 2017
DWG. No.	
	15041-A1



LEGEND	
	DRAINAGE AREA BOUNDARY
	MUNICIPAL DRAIN
	EXISTING CONSTRUCTED DRAINS
	RELOCATED DRAIN
	STRAW CHECK DAM
	ROCK CHECK DAM
	ROCK PROTECTION and EROSION CONTROL



No.	DATE	REVISION	BY	No.	DATE	REVISION	BY
1	09.02.17	ISSUED FOR DISTRIBUTION	AJR				
2	20.04.17	ADDENDUM No. 1	AJR				



Robinson
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DESIGN	LF
CHECKED	AJR
DRAWN	JHB
CHECKED	LF
APPROVED	AJR

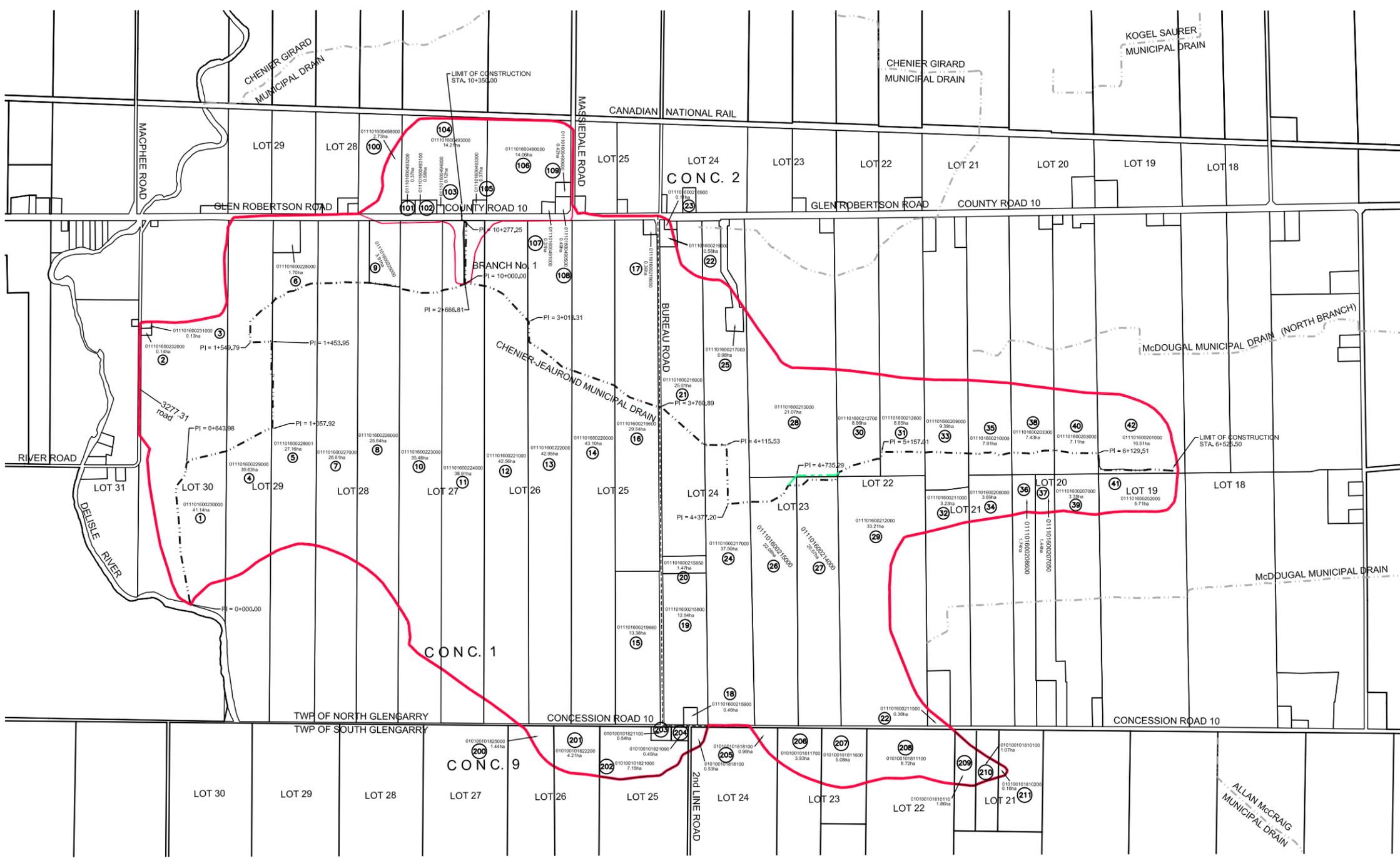
TOWNSHIP OF NORTH GLENGARRY
CHENIER - JEAUROUND MUNICIPAL DRAIN

CULVERT AND SEDIMENT and EROSION CONTROL PLAN

PROJECT No.	15041
CONTRACT No.	
DATED	APRIL 2017
DWG. No.	15041-A2

LEGEND

-  PROPERTY LINE
-  EXISTING CONSTRUCTED DRAINS
-  MUNICIPAL DRAIN
-  DRAINAGE AREA BOUNDARY
-  RELOCATED DRAIN
-  PROPERTY ID#



No.	DATE	REVISION	BY	No.	DATE	REVISION	BY
1	09.02.17	ISSUED FOR DISTRIBUTION	AJR				
2	20.04.17	ADDENDUM No. 1	AJR				



SCALES
 100 0 200
 HORIZONTAL



CONSULTING ENGINEERS
 350 PALLADIUM DRIVE
 KANATA, ONTARIO K2V 1A8
 TELEPHONE (613) 592-6060

DESIGN	LF
CHECKED	AJR
DRAWN	JHB
CHECKED	LF
APPROVED	AJR

TOWNSHIP OF NORTH GLENGARRY
CHENIER - JEAUROUND MUNICIPAL DRAIN

PROPERTY OWNERSHIP PLAN

PROJECT No. 15041
 CONTRACT No.
 DATED APRIL 2017
 DWG. No. 15041-A3