

The City of Kawartha Lakes
26 Francis Street
Lindsay, ON
K9V 5R8

July 5, 2019

Mayor, Council and Drainage Board:

**Re: Webster Drain
(Recommendation for Consideration at the Court of Revisions)**

Please find attached the following information for consideration at the Court of Revision for the above noted drain. The revisions include the following:

- Two pages of the Drain report have been revised.
 - Page 1 of the report has been revised to include the following:
 - The estimated of cost in the Summary of Work Section of the Drain Report has been revised to reflect the proposed costs of \$271,850 identified in the June 3, 2019 drain report.
 - The second petitioners name had been revised from Ella Webster to Ella Wechsel in the Authorization under the Drainage Act Section of the drain report.

Page 7 of the report has been revised to include the following:

- The maintenance section of the report has been revised to include a future land use change on the property ending with the Area Roll Number 10-204. If the forested area on the Southern portion of the property is cleared, there will be a charge of \$292 assessed against the property. The \$292 shall be retained by the City of Kawartha Lakes until maintenance is completed on the drain at which time the costs will be credit to the maintenance cost.
- Two drawings have been revised.
 - Drawing 1 of 4, Webster Drain Plan has been revised to reflect the adjusted watershed limits and land use. A survey was completed on July 2, 2019 and determined the lands ending with an Area Roll Number 10-207, 20-023, 20-023-10 and 20-028 are not in the watershed. The survey also confirmed that Sandringham Road is not in the watershed. The survey also confirmed the lands ending with an Area Roll Number 10-206 and 10-206-01 need to be adjusted to reflect a surface water break in the watershed.
 - Drawing 2 of 4, Webster Drain Profile has been revised to include the existing channel bottom between station 0+000 and 0+150.

- The Schedule of Assessment has been revised to reflect the adjusted watershed plan.
- The schedule of Maintenance has been revised to reflect the proposed schedule of assessment.

All other information included in the June 3, 2019 drain report remain unchanged. If you have any questions about the revisions please contact me.

Yours truly,



July 5, 2019

Michael Gerrits, P. Eng.
R. Dobbin Engineering Inc.

June 3, 2019

The City of Kawartha Lakes
26 Francis Street
Lindsay, ON
K9V 5R8

Mayor, Council and Drainage Board:

Re: Webster Drain

In accordance with your instructions, I have undertaken an examination of Part of Lot 11, Concession 5, and Part of Lot 10, Concession 5 with regards to providing the lots with a legal outlet for subsurface water generated on the properties.

The Lake Simcoe Regional Conservation Authority has approved the May 8, 2019 design of the Webster Drain. The design presented in this report is the same design that has been approved.

Summary of Work

The work includes the following:

- Prepare an Engineers Report under the Drainage Act to address the petitions (2).
- Replace the Glenarm Road centreline culvert.
- Replace the Prospect Road centreline culvert.
- Construct an open channel across the W1/2 of Lot 10, Concession 5 and complete a ditch cleanout and deepening for 310m west of Prospect Road on the S1/2 of Lot 10, Concession 4 and Lot 9, Concession 4.
- Allowances have been made to Pt. Lot 11 and W1/2 L Lot 10, Concession 5 and to S1/2 L Lot 10 and Lot 9, Concession 4.
- The estimated costs are estimated to be \$271,850 which includes engineering, tendering and an allowance for inspection.

Authorization under the Drainage Act

The City of Kawartha Lakes received two petitions for drainage, one on September 13, 2017 from Victor Webster Farms Ltd and a second petition from Ella Wechsel on July 12, 2018.

No trees may be planted within the working area. If trees must be removed because they interfere with the drainage work or with access or other maintenance activities, they shall be removed at the expense of the Landowner. Permanent structures are not to be erected within 10 metres of either side of the drainage works.

Attention is also drawn to Sections 80 and 82 of the Drainage Act, which refer to the removal of obstructions in a drain and damage caused to a drain.

Existing Private Drainage

All existing subsurface drainage encountered during the construction of the proposed drains shall be reconnected to the proposed open channel.

Maintenance

Upon completion of the work, the drainage works shall be maintained as per the Schedule of Maintenance unless otherwise altered under provisions of the Drainage Act or as outlined below.

- The costs of the Glenarm Road road crossing shall be maintained with 95% of the costs assessed to the Road Authority and the remainder assessed as an outlet assessment on upstream lands based on equivalent hectares.
- The costs of the Prospect Road road crossing shall be maintained with 73% of the costs assessed to the Road Authority and the remainder assessed as an outlet assessment on upstream lands based on equivalent hectares.
- The channel shall be maintained as per the specifications and to the depths and grades as shown on the drawings contained in this Engineers Report.
- If the lands ending Area Roll Number 10-204 complete tree removal of the forested area at the south portion of the property the property shall be assessed \$292. The assessment shall be retained by the City of Kawartha Lakes until maintenance is completed on the drain at which time the costs will be a credit to the maintenance cost.

All of the above is submitted for your consideration.

Yours truly,

A handwritten signature in blue ink, appearing to read 'Michael Gerrits', is written over a horizontal line.

Michael Gerrits, P. Eng.

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Special Benefit	Benefit	Outlet	Total	Equivalent Ha.
Public Lands									
5	Pt E 1/2 Lot 10	1.2	10-204-01	City of Kawartha Lakes	-	-	2,900	2,900	3.6
	Prospect Road	1.8		City of Kawartha Lakes	28,436	-	1,128	29,564	5.4
	Glenarm Road	4.1		City of Kawartha Lakes	45,714	-	14,323	60,037	16.2
					74,150	-	18,352	92,502	
				Total Special Benefit	74,150				
				Total Benefit	-				
				Total Outlet	18,352				
				Total - Public Lands	92,502				
				Total - Public Lands	92,502				
				Total Non-Agricultural Lands	711				
				Total Agricultural Lands	178,637				
				Total Assessment	\$ 271,850				

NOTE - NET ASSESSMENTS = TOTAL ASSESSMENT LESS AVAILABLE GRANTS LESS ALLOWNANCES

- * Pt E1/2 Lot 10, Concession 5 (ARN 10-204) has 7.7 ha of Bush

- ** Pt Lot 11, Concession 5 (ARN 10-206) 13.5 ha of Subsurface Water)

SCHEDULE OF MAINTENANCE
(Recommended for Consideration at the Court of Revision)

For Maintenance of the open channel portion of the drain from Station 0+150 to Station 1+302.
 Road crossings will be maintained as per the Engineers Report.

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Benefit	Outlet	Total	Equivalent Ha.
Agricultural Land								
4	N 1/2 Lot 9	2.0	10-161	R. Graves	332	1	333	2.0
	S 1/2 Lot 10	5.7	10-162-10	C. Jackson	255	29	284	5.7
	Pt N 1/2 Lot 10	1.6	10-163	D. Brown	-	12	12	1.6
5	W 1/2 Lot 10	44.3	10-200	E. Wechsel	2,484	325	2,809	44.3
	Pt E 1/2 Lot 10	28.8*	10-204	T. Bottan	-	328	328	25.2
	Pt Lot 11	53.6**	10-206	Victor Webster Farms Ltd.	255	1,280	1,535	46.9
					<u>3,326</u>	<u>1,975</u>	<u>5,301</u>	
					3,326			
					<u>1,975</u>			
					<u>5,301</u>			
Non-Agricultural Lands								
4	Pt N 1/2 Lot 10	0.4	10-163-01	J. McFeeters	-	3	3	0.4
	Pt. Lot 11	0.3	10-206-01	T. Bottan	-	17	17	0.7
					<u>-</u>	<u>20</u>	<u>20</u>	
					-			
					<u>20</u>			
					<u>20</u>			

SCHEDULE OF MAINTENANCE

Conc.	Lot or Part	Affected Hect.	Roll No.	Owner	Benefit	Outlet	Total	Equivalent Ha.
Public Lands								
5	Pt E 1/2 Lot 10	1.2	10-204-01	City of Kawartha Lakes	-	96	96	3.6
	Prospect Road	1.8		City of Kawartha Lakes	-	15	15	5.4
	Glenarm Road	4.1		City of Kawartha Lakes	-	428	428	16.2
					-	539	539	
					-			
				Total Benefit	-			
				Total Outlet	539			
				Total - Public Lands	539			
				Total - Public Lands	539			
				Total Non-Agricultural Lands	20			
				Total Agricultural Lands	5,301			
				Total Assessment	\$ 5,860			

NOTE - * Pt E1/2 Lot 10, Concession 5 (ARN 10-204) has 7.7 ha of Bush)

- ** Pt Lot 11, Concession 5 (ARN 10-206) 13.5 ha of Subsurface Water)

LOT 13

LOT 12

LOT 11

LOT 10

LOT 9



CONCESSION 4

CONCESSION 5

CONCESSION 6

LEGEND

- (X) EXISTING CULVERT
- (2) CULVERT LOCATION
- (X) EXISTING CULVERT TO BE REPLACED
- WEBSTER DRAIN
- DRAINAGE AREA
- SUB CATCHMENT BOUNDARY

OWNER INDEX NUMBER

- 1. 10-163-01 J. McFEETERS 0.40 Ha
- 2. 10-204-01 CITY OF KAWARTHA LAKES 1.21 Ha
- 3. 10-206-01 T. BOTTAN 0.33 Ha

APPROVED	SCALE: 1:10,000		
M. GERRITS	0	100	200
CHECKED	300m		
B. VAN RUITENBERG	NO.	REVISIONS	DATE
	3	WATERSHED ADJ.	JULY 4, 2019
DRAWN	2	FINAL REPORT	JUNE 3, 2019
J. WARNER	1	FOR CA APPROVAL	JAN. 18, 2019
			JW



DRAWING NAME:
Webster Drain Plan

PROJECT No.
2017-847

4218 Oil Heritage Road
Petrolia Ontario, N0N 1R0
Phone: (519) 882-0032 Fax: (519) 882-2233

CITY of KAWARTHA LAKES

WEBSTER DRAIN PLAN

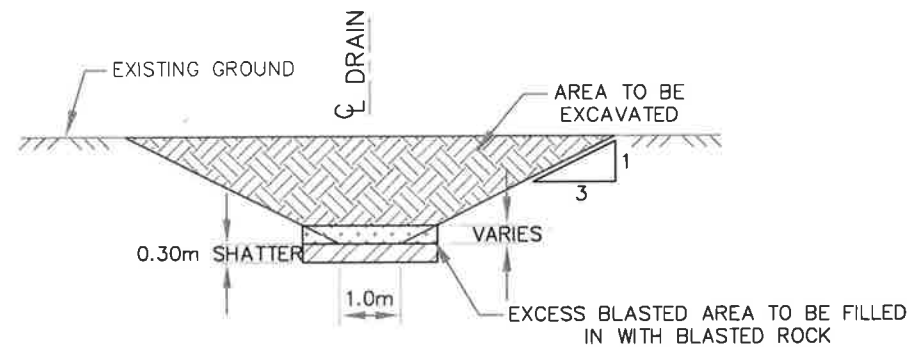
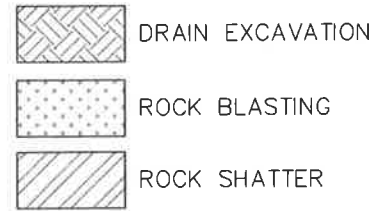
1

OF 4

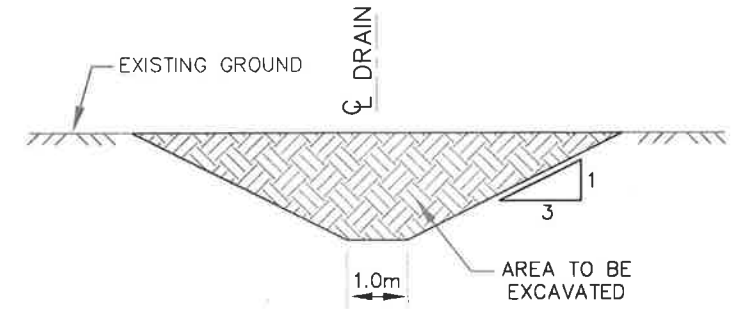
GENERAL NOTES

1. BENCHMARK No.1 ELEV. 286.07
TOP WEST END OF EXISTING 900mmØ CSP, STATION 0+474

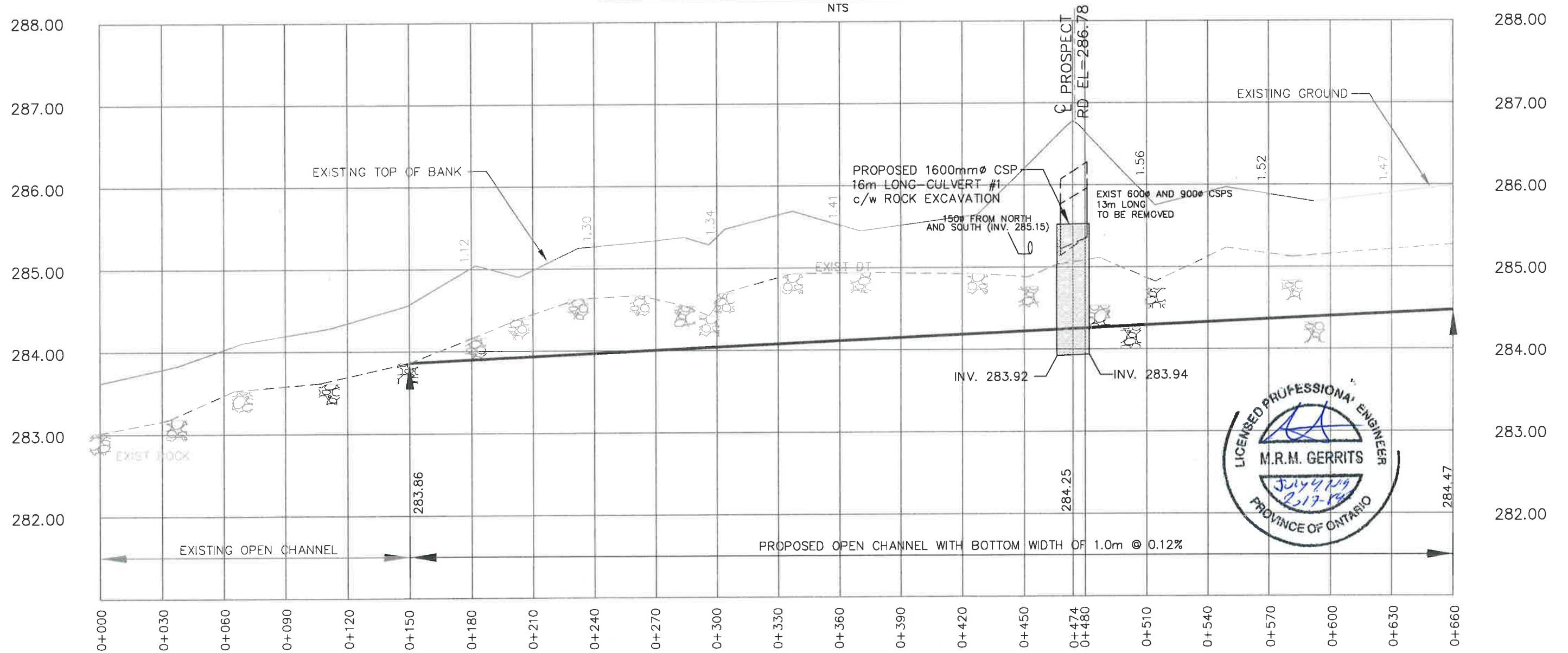
2. UPPER NUMBERS ARE DEPTH FROM GROUND/
TOP OF BANK TO BOTTOM OF NEW CHANNEL.



TYPICAL DRAIN CROSS SECTION IN EARTH AND ROCK
NTS



TYPICAL DRAIN CROSS SECTION IN EARTH
NTS



4218 Oil Heritage Road
Petrolia Ontario, N0N 1R0
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:
Webster Drain Profile 1

PROJECT No.
2017-847

APPROVED M. GERRITS	NO.	REVISIONS	DATE	BY
CHECKED B. VAN RUITENBURG	3	FINAL REPORT	JULY 4, 2019	MG
	2	FINAL REPORT	JUNE 3, 2019	MG
DRAWN J. WARNER	1	FOR CA APPROVAL	JAN. 18, 2019	JW

SCALE: 1:2,000
0 20 40 60m

CITY of KAWARTHA LAKES
WEBSTER DRAIN
PROFILE

2
OF 4