



Corporation of the Municipality of South Huron
Revised Agenda - Regular Council Meeting

Monday, October 1, 2018, 6:00 p.m.

Council Chambers - Olde Town Hall

Accessibility of Documents:

Documents are available in alternate formats upon request. If you require an accessible format or communication support, please contact the Clerk's Department at 519-235 -0310 or by email at clerk@southhuron.ca to discuss how best we can meet your needs.

Pages

1. Meeting Called To Order

Welcome &O Canada

2. Public Meeting

3. Amendments to the Agenda, as Distributed and Approved by Council

Recommendation:

That South Huron Council approves the Agenda as presented.

4. Disclosure of Pecuniary Interest and the General Nature Thereof

5. Delegations

- 5.1 Communities In Bloom - Symposium and Awards in Strathcona County, Alberta

1

Recommendation:

That South Huron Council receives the delegation as presented from the Communities in Bloom Committee by Debbie Mountenay.

- 5.2 Mollard Line Ratepayers - Petition

4

Recommendation:

That South Huron Council receives the delegation as presented from Gary Eagleson.

6. Minutes

- 6.1 Minutes of the Regular Council Meeting of September 17, 2018 13

Recommendation:

That South Huron Council adopts the minutes of the Regular Council Meeting of September 17, 2018, as printed and circulated.

7. Councillor Board and Committee Reports

- 7.1 Minutes of Grand Bend Area Sewage Board meeting of April 27, 2018 and Agenda of September 14, 2018

<https://calendar.lambtonshores.ca/council>

Recommendation:

That the minutes of the Grand Bend Area Sewage Board meeting of April 27, 2018 be received, as amended.

- 7.2 Minutes of the Exeter Rodeo Committee meeting of July 9, 2018 and the draft minutes of the September 10, 2018 21

Recommendation:

That South Huron Council accept the recommendation of Exeter Rodeo Committee to appoint Darcey Cook and Mike Clarke to the Rodeo Committee.

- 7.3 Minutes of the Community Hub/Recreation Project Steering Advisory Committee of August 14, 2018 and draft minutes of September 11, 2018 32

- 7.4 Draft Minutes of the South Huron Police Services Board meeting of September 11, 2018 38

- 7.5 Draft Minutes of the Kirkton-Woodham Community Pool Committee meeting of September 20, 2018 44

Recommendation:

That South Huron Council accept the recommendation of the Kirkton Woodham Community Pool Committee and appoint the following officers to the Committee:

- Jenna Becker, Chair
- Pam Benoit, Secretary.

7.6 Upper Thames River Conservation Authority- Agenda and Reports of September 25, 2018

<http://thamesriver.on.ca/board-agendas-minutes/>

Recommendation:

That the minutes of the following committees and/or boards be received as presented to Council:

- Grand Bend Area Sewage Board minutes of April 27, 2018
- Exeter Rodeo Committee minutes of July 9, 2018 and draft minutes of September 10, 2018
- Community Hub/Recreation Project Steering Advisory Committee minutes of August 14, 2018 and draft minutes of September 11, 2018
- South Huron Police Services Board draft minutes of September 11, 2018
- Kirkton-Woodham Community Pool Committee draft minutes of September 20, 2018
- Reports of Upper Thames River Conservation Authority meeting of September 25, 2018

8. Staff Reports

8.1 Planning

- 8.1.1 S. Smith, Huron County Planner re: Consent C48-2018 (Coolman) 47

Recommendation:

That South Huron Council recommends to Huron County Council that Consent for file C48-2018 be denied and referred to County Council for decision as set out in the Planner's report dated September 24, 2018.

8.1.1.1 Comments handed out at meeting

52

- 8.1.2 S. Smith, Huron County Planner re: Consent C55-2018
(Hardeman/De Groot) 54

Recommendation:

That South Huron Council recommends to Huron County Council that Consent for file C55-2018 be granted with conditions as set out in the Planner's report dated September 24, 2018.

8.2 Operations and Infrastructure

- 8.2.1 D. Giberson, Director of Operations and Infrastructure -
DWQMS Annual Management Review 60

Recommendation:

That South Huron Council receives the report from D. Giberson, Director of Operations and Infrastructure re: DWQMS Annual Management Review and that Councillor Vaughan is selected to participate in this review.

8.3 Financial Services

8.4 Administration

9. Deferred Business

- 9.1 Draft Letter to Bob Sharen 63

Recommendation:

That South Huron Council approve the letter to Bob Sharen as presented.

10. Notices of Motion

10.1 Notice of Motion

Recommendation:

Moved by Councillor Deluca

Whereas there have been concerns raised regarding the closure of the Exeter OPP Station; and

Whereas MPP Lisa Thompson has indicated that a new detachment will be coming to her riding in Clinton; and

Whereas the municipality of South Huron Council has not been provided the opportunity for dialogue while the process took place;

Be it resolved that a letter be sent to Lisa Thompson MPP Huron-Bruce, Michael Tibollo, Minister of Community Safety and Correctional Services, Monte McNaughton, Minister of Infrastructure, and the OPP Municipal Policing Bureau for an up to date status report on the future of the Exeter OPP Station.

Recommendation:

That South Huron Council direct CAO Best to write and send the letter for an up to date status report and submit the letter for information at the next Council meeting.

11. Closed Session

12. Mayor & Councillor Comments and Announcements

- | | | |
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| 12.1 | Mayor Cole - FCM Board of Directors Press Release September 17 2018 | 64 |
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13. Communications

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| 13.2 | AMO - Bill 31 Reducing the Size of City Council in Toronto | 67 |
| 13.3 | OPP Municipal Policing Bureau - 2019 Municipal Policing Bill and Budget | 70 |
| 13.4 | Ontario Energy Board - Notice of New Transportation Rate | 85 |
| 13.5 | BRA Board Meeting Highlights of the September 20, 2018 meeting | 86 |

13.6	United Way Perth-Huron - Social Research and Planning Council Community Consultation	110
13.7	Exeter United Church UCW - Community Grant Status Update	111
13.8	South Huron Hospital Foundation - Community Grant Status Update	113
13.9	Christina Riley-Ankers and Brad Ankers - Request - Designation as Potentially Vicious or Vicious Dog	115

Recommendation:

That South Huron Council refer the request by Christina Riley-Ankers and Brad Ankers to remove the vicious dog designation to South Huron Animal Control Tribunal.

13.10	Huron County - Resolution - Huron Domestic Assault Review Team (DART)	118
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Recommendation:

That South Huron Council receive communication items not otherwise dealt with.

14. Report From Closed Session

15. By-Laws

15.1	By-Law No. 81-2018 - Site Plan Agreement - Hamather Motor Products	127
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Recommendation:

That the South Huron Council gives first, second and third and final reading to By-Law #81-2018, being a by-law to authorize the execution of a Site Plan Agreement between the Municipality of South Huron and Hamather Motor Products in the Municipality of South Huron in the County of Huron.

16. Confirming By-Law

16.1	By-Law No. 82-2018– Confirming By-Law	174
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Recommendation:

That the South Huron Council gives first, second and third and final reading to By-Law #82-2018, being a by-law to confirm matters addressed at the October 1, 2018 Council meeting.

17. Adjournment

Recommendation:

That South Huron Council hereby adjourns at 7:30 p.m., to meet again on October 15, 2018 at 6:00 p.m. or at the Call of the Chair.

Rebekah Msuya-Collison

From: Dave Atthill
Sent: Monday, September 24, 2018 2:19 PM
To: Rebekah Msuya-Collison
Subject: delegation

Debbie Mountenay will be attending the 2018 Communities in Bloom Symposium and Awards in Strathcona County, Alberta. Debbie will be bringing back and reporting on the results of the Judge's scoring of the Municipality of South Huron, that took place from July 24 - 26, 2018.

Kind Regards,

Dave Atthill

Facility Services Co-ordinator
Municipality of South Huron
Office: 519-235-2833
Mobile: 519-857-2308
d.atthill@southhuron.ca



Municipality of South Huron, Ontario

Communities in Bloom - 2018 National & International Edition

Winner **5 Blooms - Bronze** **Rural Gardens**

PRESS RELEASE: FOR IMMEDIATE RELEASE

STRATHCONA COUNTY, Alberta, September 29th, 2018 —

The Municipality of South Huron is the winner of the 5,001 - 10,000 population category. They received a 5 Blooms - Bronze rating and a special mention for *Rural Gardens* during the 2018 National/International Symposium and Awards Ceremonies in Strathcona County, Alberta. The Municipality of South Huron was in competition with Bay Roberts NL and Coaldale AB.

Over the summer, trained volunteer judges travelled to participating communities to evaluate the overall contributions of municipal council and departments; industry; businesses and the private sector – including volunteer efforts – in regards to the following criteria: Tidiness, Environmental Action, Heritage Conservation, Urban Forestry, Landscape and Floral Displays.

Following their evaluation, volunteer judges Berta Briggs and Karin Rindal wrote:

"The Russel farm has an extensive garden that is beautifully designed with annuals, shrubs, perennials and indigenous plantings in addition to two large vegetable gardens. It is on the prestigious Huron garden route. The Prout farm has beautiful landscaping with gardens that specialize in pollinators flowers to complement their bee hives. The Kirkton Horticulture Society plants and maintains a perennial border beside the local community hall. The rural residents definitely play their part in making South Huron beautiful with impressive gardens."

Within the actual context of climate changes and environmental concerns, communities involved in the program can be proud of their efforts, which provide real and meaningful environmental solutions and benefit all of society.

For a complete list of the results and the electronic copy of the Communities in Bloom magazine, please visit www.communitiesinbloom.ca

About Communities in Bloom

Communities in Bloom is a Canadian non-profit organization committed to fostering civic pride, environmental responsibility and beautification through community involvement and the challenge of a national program, with focus on the enhancement of green spaces. The pride, sense of community and feeling of accomplishment generated through participation are visible in communities across Canada. For more information about Communities in Bloom, visit www.communitiesinbloom.ca

Communities are evaluated using a "bloom" rating determined by the total score of the evaluation:
0 to 55 %=1 Bloom 56 to 63 %=2 Blooms 64 to 72 %=3 Blooms 73 to 81 %=4 Blooms 82 % and over=5 Blooms

There are four (4) levels of 5 Blooms exclusive to the National and International Edition:
5 Blooms: 82 to 83.9% Bronze: 84 to 86.9% Silver: 87 to 89.9% Gold: 90% and over

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Municipality of South Huron

Mr. David Atthill

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Email: d.atthill@southhuron.ca

Website: www.southhuron.ca

Communities in Bloom National Office

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www.communitiesinbloom.ca

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Council Meeting October 1st, 2018

Presentation of Petition by Mollard Line Residents By Gary Eagleson

Your Honour Mayor Maureen Cole, Deputy Mayor, Councillors and staff of South Huron. Thank you for giving us the opportunity to address you at this council meeting. We want to emphasize our displeasure to the way our road has been maintained since amalgamation.

I was personally in favour of amalgamation of the Township of Stephen with the Town of Exeter and the Township of Usbourne. I felt the borders that dated back to 1842 had no basis given the technology we have today namely telephone, cell phone, e-mails, motorized vehicles, roads etc. In retrospect I would not be in favour of this happening if I had known the focus on our westerly rural area by the new Municipality of South Huron would be weak in comparison to the former Township of Stephen as it relates to roads, bridges and maintenance of the same. In our area the appearance of the roadside area cared for by the municipality has not been acceptable let alone the road closure since March and what I hear likely ongoing into next summer.

Last Tuesday I sent to the Clerk of South Huron a petition signed by those who reside or own farms on the Mollard Line. Every person expressed their displeasure that the Mollard Line has been closed to all traffic since March 2018. This is due to the 12-ft culvert deterioration that crosses the Mollard Line between South Road and Crediton Road as part of the Carey Drain. I understand the Municipality of South Huron knew the deterioration of this culvert was happening 4 years ago. Some 6 x 6 beams were installed which seems rather inadequate. This should have started a process of replacement during the last 4 years that would have given time for financial budgeting for the proper replacement of this culvert resulting in days not months of closure for the residents, friends or people of the area who use this road.

Council may feel budgeting for this replacement is necessary but not years of setting a course of action to call an engineer, call for tenders and replace the culvert. Surely the wind turbine vibrancy grant could have been used for this cause. The wind turbines are in our area thus we should benefit from this fund once in a while when needed. The industrial municipal taxes derived from each turbine should be used in the area they stand in my opinion not solely in the Exeter area for pool upgrades or Huron East reconstruction.

Council may not realize that a safe and properly maintained road is essential and expected by ratepayers. For two years we have put up with the ongoing septic pipe repair that occurred with the Grand Bend sewer pipeline that was installed underground the middle of the road. Not just potholes but large holes and erupting sewage coming out of the broken pipe was common. Imagine if this occurred on an ongoing basis in Exeter. Health and safety is at jeopardy.

Since March ratepayers have had to call ambulances due to emergencies and twice the ambulances were unsure how to arrive at the call because our road was closed to all traffic. Dan Gill can expand on his son's emergency whereby the ambulance ended up going down Kirkton Road then over Shipka Line and then back on Crediton Road to the Mollard Line. The time lost is life threatening. Another resident

on Mollard Line had a life threatening 911 call. These do happen but nobody can plan ahead whether there is one or many that are going to happen. I can certainly say they do and will happen.

Last Friday I had an equipment fire. The Grand Bend fire department was instructed the fire was east of the Mollard Line at South Road. They had to stop on highway 81 and South Road, call the dispatcher for instruction because Shipika Line is east of the Mollard Line. They could not get through to the dispatcher but took a chance and did arrive after 18 minutes. Then their back-up from Northville had to stop on the Mollard Line one km north of the Greenway Road because a big dead white ash tree had fallen across the road. They had to use chainsaws to cut the large tree before they could proceed to my farm. Further delay and yes it may have been a possible life saving fire call.

I have provided to your clerk the petition but also pictures of dead white ash trees right along the road that have been dead for at least two years. Yes, the township hired a large tree shredder to tear living and dead trees apart but yet leave many dead white ash trees. These trees may very well harm or kill somebody. I could not believe last week the tree that fell was clean up yet a clump of five dead white ash was right along the road near where the tree fell. Three of the trees were cut and cleaned up yet two were not touched and still stand there dead and ready to fall.

The Township of Stephen used to have a Road Superintendent position. In the 65 years I have lived on the Mollard Line I do not remember being upset with the care and maintenance of our road. Now we have Public Works and we have Infrastructure but really who focuses on the important care and maintenance of the roads?

An interesting side point is in Mississippi there are presently 547 bridges that have been closed to traffic due to poor maintenance and no money to repair them. In one district there are over 30 bridges closed with the resulting 30 mile detour preventing fire fighters and paramedics from getting to residents quickly. We are not in that bad a shape. However the future does not paint a rosy picture. I wrote the Integrated Sustainable Community Plan for North Middlesex. In that report there are 35 bridges that will need to be replaced by 2050 at a cost then of \$74 million. What does the Municipality of South Huron's future hold?

It is nice to have refurbished pools and lovely hockey arenas but our road structures must be maintained so our health and safety is not jeopardized. I would have expected an emergency reserve fund would have been used for the culvert replacement on the Mollard Line. If there is one why was this not used? You had 4 years to plan for its use.

Comments by residents have been very negative about the state of affairs in our area since amalgamation. I heard these while gathering names for this petition. The pictures I gave you show some of these concerns. Overall it is less than stellar performance.

We ask you do a better job in meeting and exceeding our expectations with a focus on replacing this culvert before winter and cutting the dead white ash trees.

Thank you for your time.

MOLLARD LINE PETITION RELATING TO CULVERT REPLACEMENT

Whereas the residents of the Mollard Line who are ratepayers of the Municipality of South Huron expect to have roads to be properly maintained in an efficient and effective manner

And **whereas** improvements in road maintenance technologies continue to reduce safety concerns so we can efficiently drive on our local roads in a safe manner for our families and guests who require using these roads.

And **whereas** these roads offer emergency First Responders the opportunity to arrive at our residences as expected if necessary under emergency conditions in a timely manner.

We, the undersigned, hereby petition the Municipality of South Huron to immediately begin the replacement of the steel culvert located on the Mollard Line between South Road and Crediton Road before the winter season sets in. Three times since the early March closing of this culvert occurred residents have called emergency responders with each time delays occurred with ambulances and fire departments because of the road closure.

We, the undersigned, expect and demand speedy remediation of this life threatening road closure..

NAME	911 ADDRESS AND POSTAL CODE	SIGNATURE
Gary Eagleson	69436 Mollard Line	Gary Eagleson
Chad Eagleson	69436 Mollard Line	Chad Eagleson
Math Eagleson	69436 Mollard Line	Math Eagleson
Jan Eagleson	69436 Mollard Line	Jan Eagleson
Don Gill	70096 Mollard Line	Don Gill
Leif Gill	70096 Mollard Line	Leif Gill
Rick McGuire	70330 Mollard Line	Rick McGuire
KATHY HUS	70330 Mollard Line	Kathy Hus
Marcelle Mollard	70312 Mollard Line	Marcelle Mollard
James Deschêdine	70362 Mollard Line	James Deschêdine
Mike Blecher	70392 Mollard Line	Mike Blecher
Patricia Gilmore	70203 Mollard Line	Patricia Gilmore

MOLLARD LINE PETITION RELATING TO CULVERT REPLACEMENT

Whereas the residents of the Mollard Line who are ratepayers of the Municipality of South Huron expect to have roads to be properly maintained in an efficient and effective manner

And **whereas** improvements in road maintenance technologies continue to reduce safety concerns so we can efficiently drive on our local roads in a safe manner for our families and guests who require using these roads.

And **whereas** these roads offer emergency First Responders the opportunity to arrive at our residences as expected if necessary under emergency conditions in a timely manner.

We, the undersigned, hereby petition the Municipality of South Huron to immediately begin the replacement of the steel culvert located on the Mollard Line between South Road and Crediton Road before the winter season sets in. Three times since the early March closing of this culvert occurred residents have called emergency responders with each time delays occurred with ambulances and fire departments because of the road closure.

We, the undersigned, expect and demand speedy remediation of this life threatening road closure..

NAME	911 ADDRESS AND POSTAL CODE	SIGNATURE
Travis Skelton	70203 Mollard Line	Travis Skelton
Cassie Lorie	69999 Mollard Line	Cassie Lorie
Donna Davis	69941 Mollard Line	Donna Davis
ALLEN HAYTER	69876 Mollard Line	Allen Hayter
LARRY RATH	69713 Goshen Line	Larry Rath
Loane Brown	70819 Mollard Line	Loane Brown
LOANE BROWN	70279 MOLLARD LINE	Loane Brown
GLENN A. MUEA	35508 Credon Rd.	Glenn A. Muea
ALMA J HOOD	35545 SOUTH RD	Alma J Hood
John Hood	35545 South Rd	John Hood













Corporation of the Municipality of South Huron

Minutes for the Regular Council Meeting

**Monday, September 17, 2018, 6:00 p.m.
Council Chambers - Olde Town Hall**

Members Present: Maureen Cole - Mayor
Dave Frayne - Deputy Mayor
Tom Tomes - Councillor - Ward 1
Marissa Vaughan - Councillor - Ward 1
Wayne DeLuca - Councillor - Ward 2
Craig Hebert - Councillor - Ward 2
Ted Oke - Councillor - Ward 3

Staff Present: Dan Best, Chief Administrative Officer/Deputy Clerk
Sarah Smith, Huron County Planner
Rebekah Msuya-Collison, Clerk

1. Meeting Called To Order

Mayor Cole called the meeting to order at 6:00 p.m.

2. Notice of Deferral of Public Meeting

OPA 14 and D14-Z14-2018 (Kints)

3. Amendments to the Agenda, as Distributed and Approved by Council

Motion: 437-2018

Moved: T. Oke

Seconded: M. Vaughan

That South Huron Council approves the Agenda as presented.

Disposition: Carried

4. Disclosure of Pecuniary Interest and the General Nature Thereof

None.

5. Delegations

5.1 John Pond, Centralia-Huron Park Lions

John Pond of the Centralia-Huron Park Lions Club provided Council with an outline drafted by himself and Laurie Crawford of Faith Tabernacle for proposed projects for the Centralia Recreation Park. Mr. Pond advised that there have some funds for the project and that they aim to start the project in spring of 2019.

Council asked Mr. Pond about grant submissions and inquired about local baseball diamond usage. Councillor Tomes provided background on the lights and washroom at the facility.

Motion: 438-2018

Moved: D. Frayne

Seconded: C. Hebert

That South Huron Council receives the delegation as presented from John Pond, Centralia-Huron Park Lions.

Disposition: Carried

6. Minutes

6.1 Minutes of the Regular Council Meeting of September 4, 2018

Motion: 439-2018

Moved: T. Tomes

Seconded: W. DeLuca

That South Huron Council adopts the minutes of the Regular Council Meeting of September 4, 2018, as printed and circulated.

Disposition: Carried

6.2 Minutes of the Committee of Adjustment of September 4, 2018

Motion: 440-2018

Moved: T. Oke

Seconded: C. Hebert

That South Huron Council adopts the minutes of the Committee of Adjustment meeting of September 4, 2018, as printed and circulated.

Disposition: Carried

7. Councillor Board and Committee Reports

- 7.1 Minutes of the Police Services Board Meeting of June 12, 2018
- 7.2 Draft Minutes of the Exeter BIA of August 14, 2018
- 7.3 Minutes of the Kirkton-Woodham Community Centre Board of June 6, 2018 and draft Minutes of August 23, 2018

Councillor DeLuca advised that he would be introducing a Notice of Motion.

Council discussed that no decision has been made on the timeline of the detachment move from Goderich to Clinton and that at this time, no one knows the implications of the move and that the Province will have final say.

Motion: 441-2018

Moved: D. Frayne

Seconded: T. Tomes

That the minutes of the following committees and / or boards be received as presented to Council:

- **Minutes of the Police Services Board Meeting of June 12, 2018;**
- **Draft Minutes of the Exeter BIA of August 14, 2018; and**
- **Minutes of the Kirkton-Woodham Community Centre Board of June 6 and draft Minutes of August 23, 2018.**

Disposition: Carried

8. Staff Reports

8.1 Planning

- 8.1.1 S. Smith, Huron County Planner re: Proposed Site Specific/Housekeeping Amendment

Motion: 442-2018

Moved: T. Oke

Seconded: C. Hebert

That South Huron Council receives the memo from S. Smith, Huron County Planner re: Proposed Site Specific/Housekeeping Amendment; and

That South Huron Council direct staff to initiate a Housekeeping Zoning By-law Amendment/Site Specific Zoning By-law Amendment for the subject lands to correct the mapping error.

Disposition: Carried

8.2 Operations and Infrastructure

8.3 Financial Services

8.4 Administration

8.4.1 R. Msuya-Collison, Clerk - Election Compliance Audit Committee

Motion: 443-2018

Moved: T. Tomes

Seconded: C. Hebert

That South Huron Council receive the report from R. Msuya-Collison, Clerk, re: Establishment of an Election Compliance Audit Committee for the 2018 Municipal Election and authorize the Clerk to proceed with the establishment of an Election Compliance Audit Committee in accordance with the *Municipal Elections Act, 1996*; and

That a By-Law be passed for the establishment of an Election Compliance Audit Committee for The Corporation of the Municipality of South Huron and to adopt the Terms of Reference.

Disposition: Carried

9. Deferred Business

10. Notices of Motion

Moved by Councillor Deluca

Whereas there have been concerns raised regarding the closure of the Exeter OPP Station; and

Whereas MPP Lisa Thompson has indicated that a new detachment will be coming to her riding in Clinton; and

Where the municipality of South Huron Council has not been provided the opportunity for dialogue while the process took place;

Be it resolved that a letter be sent to Lisa Thompson MPP Huron-Bruce, Michael Tibollo, Minister of Community Safety and Correctional Services, Monte McNaughton, Minister of Infrastructure, and our local policing branch for an up to date status report on the future of the Exeter OPP Station.

11. Mayor & Councillor Comments and Announcements

Deputy Mayor Frayne advised of the upcoming HMA Gala to be held November 15 at the Four Winds Wedding and Event Barn in Brussels.

Councillor Hebert asked about a contingency plan for election voter letters if there is a postal strike. The Clerk advised that the bulk of the ballots were to be mailed out on September 18, 2018.

Councillor Vaughan advised the Grand Bend Sewage Treatment financial statements are going to be sent out within the next week or so. The agreement provides for a 30 day period to give Councils the opportunity to ask questions and make comments on the financial statements. The next board meeting is November 9, 2018 and the current budget will continue until the new council passes the 2019 budget.

Councillor Vaughan mentioned that the Health and Wellness Trade show is Thursday from 2 p.m. to 7 p.m.

Councillor Oke noted the Kirkton-Woodham Fair committee did a great job and the fair was very successful with record attendance.

Councillor Tomes spoke to the Grand Bend Sewage Treatment budget and noted very little movement. He noted in the news that Huron County may build a new administration office.

Deputy Mayor Frayne advised that he is part of the building facilities review for Huron County and that the project is still in the preliminary stage. He provided guides he obtained at the AMO Conference regarding Engineered precast, modular precast bridges, a Guide to Programs and Services for Seniors in Ontario and Age-Friendly Community Planning.

Mayor Cole attended the FCM board meeting and read the press release that will be added to correspondence at the October 1st regular council meeting.

12. Communications

- 12.1 Ministry of Community Safety and Correction Services - 2017 EMCPA Compliance Report
- 12.2 Ministry of Natural Resources - Comment Period for Updated Procedures
- 12.3 Rose Glavin/Optimist Club - Request - Exemption Noise By-Law

Motion: 444-2018

Moved: T. Oke

Seconded: M. Vaughan

That South Huron Council allows the fundraising event on September 29, 2018 held by the South Huron Optimist Club and Glavin Family to be held at the Ag Building in Exeter to be exempt from Noise By-Law 30-2006 up to 1:00 a.m.

Disposition: Carried

- 12.4 Bev and Norma Lindenfield - Cemetery Fence
Council directed Administration to respond to the letter and include the CAO report regarding the Cemetery Fence.
- 12.5 Bob Sharen - Grand Bend Sanitary Sewer System
Council discussed responding to items 12.5 and 12.6 and directed the CAO to report back to Council.
- 12.6 Ernie Lane - Grand Bend Sewage Treatment Facility
- 12.7 Canada Day Committee - Thank you
- 12.8 Township of Amaranth - Resolution - NAFTA Dairy Supply Management Program
- 12.9 Township of South Glengarry - Resolution - Essential Paramedic Services

Motion: 445-2018

Moved: D. Frayne

Seconded: T. Tomes

That South Huron Council receive communication items not otherwise dealt with.

Disposition: Carried

13. Closed Session

14. Report From Closed Session

15. By-Laws

15.1 By-Law No. 79-2018 - Joint Municipal Election Compliance Audit Committee

Motion: 446-2018

Moved: C. Hebert

Seconded: M. Vaughan

That the South Huron Council gives first, second and third and final reading to By-Law #79-2018, being a by-law to establish a joint Municipal Election Compliance Audit Committee and to appoint Members to that Committee.

Disposition: Carried

16. Confirming By-Law

16.1 By-Law No. 80-2018 – Confirming By-Law

Motion: 447-2018

Moved: T. Oke

Seconded: W. DeLuca

That the South Huron Council gives first, second and third and final reading to By-Law #80-2018, being a by-law to confirm matters addressed at the September 17, 2018 Council meeting.

Disposition: Carried

17. Adjournment

Motion: 448-2018

Moved: D. Frayne

Seconded: C. Hebert

That South Huron Council hereby adjourns at 7:19 p.m., to meet again on October 1, 2018 at 6:00 p.m. or at the Call of the Chair.

Disposition: Carried

Maureen Cole, Mayor

Rebekah Msuya-Collison, Clerk



Exeter Rodeo Committee

South Huron Recreation Centre
July 9, 2018 – 7 p.m.

Members Present

Members Attending – Scott Nickles, Chair, Bob Parsons, Dave Marshall, Stephen Clarke, Brenda McCarter, Darcey Cook

Council Representative – Craig Hebert

Staff Representatives – Kate Russell, Jo-Anne Fields

1. Call to Order & Welcome

- Chair, Scott Nickles welcomed everyone to the meeting and thanked them for their commitment to this community event

2. Declaration of Conflict of Interest

- No Conflict of Interest declared

3. Changes/Additions to the Agenda

- No changes/additions noted to the Agenda

4. Approval of the Agenda

Motion – 13/07/18

Moved by: Darcey
Seconded by: Dave Marshall

“THAT the agenda of July 9, 2018 be approved as presented.”

Disposition: Carried

5. Approval of the Minutes

Motion – 14/07/18

Moved by: Darcey Cook
Seconded by: Stephen Clarke

“THAT the minutes of April 30, 2018 meeting be approved as circulated.”

Disposition: Carried

6. Business arising from the Minutes

- Ty Baynton has been hired – committee will pay an additional \$500 above sponsored portion – evening will wrap up at 11 p.m.
- Tent has been reserved – 40’ x 60’ – tent permit has been approved by the Building Department – does not need an inspection
- Saddle Club is not having a 50/50 raffle –could not get enough volunteers to sell them

7. Correspondence

- Correspondence is shared with the Committee membership as received
- Insurance Certificate was received – naming Municipality of South Huron
- Liquor license extension has been approved by AGCO
- Jo-Anne met with Alcohol & Gaming – this is a family event – enclosure includes beer garden – not a big alcohol event

8. Committee Reporting

Facilities and Grounds

- Bob reported the grounds are dry
- Three weeks ago the surface was hard – had to be cultivated early in the season – not used much – checked after concert – no issues at a recent Saddle Club event
- Stands look okay – repaired boards replaced prior to the concert
- Wood chips have been put in under stands

ACTION: Community Services team will maintain area in preparation for

event

Sponsors

- Jo-Anne reported sponsors have been coming in, so far we have:
 - o **Laramie Level:** Exeter Chrysler Ltd.; Crabby Joe's Tap & Grill, Exeter; Ulch Trailer Sales Ltd.; Brokerlink (sponsoring Canadian Cowgirls – flag for them coming)
 - o **Big Horn Level:** Dairy Queen; United Plastics Components Inc.; Exeter Lions Club
 - o **Outdoorsman Level:** MicroAge Basics; Exeter Lioness Club
 - o **SLT Level:** Stratford Memorials Limited; South Huron Office Solutions; Premium Transportation Inc.; Miller's Country Store; Ellison Travel; Raymond James; Exeter Produce; FD Roofing
- Still more we haven't heard from yet
- Will follow-up again in a week or so – by July 20th
- If others around the table have contacts – who else can we approach
- Discussion about who will approach which businesses for sponsors
- Sponsor packages were distributed for use in approaching potential sponsors

ACTION: members to follow-up and approach potential sponsors

Vendors

- Darcey outlined vendors to date, including: Gators Grub; Lemonade Vendor
- Bubbles Ice Cream guy – has submitted an application
- Previous ice cream person also has applied (has been attending for three years as a vendor)
- Discussion about whether you have one or two – has caused problems in the past to have too many ice cream vendors – food is more important
- Cold Cactus Boutique place – different vendor merchandise
- Wild Wild West has hats and boots and belts – has come for years
- Pancho Mellow may be coming – will hear from him closer to the date
- Potential to look at the committee providing inexpensive novelties or T-shirts in future
- Discussion about variety of vendors and how many to have – leaving it to Darcey's discretion to report back

ACTION: Darcey will continue to receive inquiries regarding vendor space

Marketing, Promotion, Advertising and Social Media

- Stephen Clarke – had some issues on FB about lack of roping – some responses were made by Ross; additional benefits; Canadian Cowgirls will be a big hit

ACTION: Stephen will continue to continue to promote on social media

- Brittany Wise of BIA has offered the downtown window again
- Kate will meet with Laura from Miller's Country store – to see about merchandise to borrow
- Bob could potentially provide an old roping saddle

ACTION: Kate to follow-up with the window decoration

- Kate distributed posters, tent cards, coasters, brochures for distribution
- Posters and brochures have been taken throughout Exeter (by summer student) and further afield by Kate but will still need to be placed in various locations
- Kate would like to develop a list of where items are distributed, so asked members to let her know where items have been placed

ACTION: Members to distribute posters and promotional items

- Road signs need to be put up – available and ready to go

ACTION: Scott and Bob volunteered to install them this Thursday

- Radio rep. from Country 104.9 came in to meet with Jo-Anne and Kate – a \$450 package was offered – discussion determined not to go with it this year

ACTION: Radio advertising will be declined for this year

- Chuck Wagon promotion – it is in storage – will be brought out for use

ACTION: Scott and Bob volunteered to get the wagon out this Thursday

Financial

- Same as last meeting – nothing new to report

Events/Activities/Entertainment

- Friday night – Darcey emailed about mechanical bulls - not successful
- Idea of a wing night – pigs and tail night – would need to sell tickets – not enough time to plan and prepare for 2018

ACTION: Review ideas for next year

Chair/Vice Chair Comments

- Last few weeks – get marketing out – hope all will help and get them out and about to various locations to promote
- Do we do a data survey? how do we track – can we gather up some baseline data
- Can the announcer make a call out for recording it
- Mingle? Ask questions? Where are you from? How did you hear about us?

ACTION: see about some kind of survey at admission table (can students do it?)

9. New & Other Business

Volunteers – members say their usual volunteers are tapped

- Jo-Anne is approaching Fanshawe to see about some students – need: admission people, bar staff, groundskeepers.
- Security is hired for the weekend

ACTION: membership to think about who we could recruit.

Donation to the Exeter and District Swimming Pool – it was put forth that the committee could make a donation. Reserve has funds – committee revenues are earmarked towards recreation in the community. Discussion of grants and Optimists support already in place. Would be included on permanent signage or purchase an armor stone in Optimist seat wall, at a cost of \$1,000. Potential to integrate “2nd weekend of August”.

Motion – 15/07/18 RESCINDED SEPT. 10, 2018

Moved by: _____ Darcey Cook

Seconded by: _____ Dave Marshall

~~THAT the Rodeo Committee recommends to the Municipality of South-Huron council that funds from the Rodeo reserve be used to purchase an Optimist Armor Stone and provide a \$5,000 donation toward the Exeter and District Swimming Pool Renovation project.~~

Disposition: _____ Carried

10. Unfinished Business

- Nothing at this time

11. Date of Next Meeting

- Next meeting regular will be held at South Huron Recreation Centre at the call of the Chair on Monday, July 23, 2018 at 7:00 pm

12. Adjournment**Motion – 16/07/18**

Moved by: Darcey Cook
Seconded by: Bob Parsons

“THAT the meeting be adjourned at 8:15 pm.”

Disposition: Carried

Chair – Scott Nickles

Date

Recording Secretary – Kate Russell

Date



Exeter Rodeo Committee

South Huron Recreation Centre
Monday, Sept. 10, 2018 – 8:00 pm

Members Present

Members – Scott Nickles, Chair, Bob Parsons, Dave Marshall, Steve Clarke, Brit McCarter, Georgia Athanasiou (BIA); Brenda McCarter

Council Representative – Craig Hebert

Staff Representatives – Jo-Anne Fields, Kate Russell

Guests – Michael Clarke

1. Call to Order & Welcome

- Chair, Scott Nickles welcomed everyone to the meeting and thanked them for their commitment to this community event

2. Declaration of Conflict of Interest

- No Conflict of Interest declared

3. Changes/Additions to the Agenda

- No changes/additions noted to the Agenda

4. Approval of the Agenda

Motion – 17/09/18

Moved by: Dave Marshall

Seconded by: Bob Parsons

“THAT the agenda of September 10, 2018 be approved as presented.”

Disposition: Carried

5. Approval of the Minutes

- It was noted a change in one of the motions would have to be made, as it was moved by someone not officially a member of the committee. The motion will be rescinded from the original minutes and put forth again tonight.

Motion – 18/09/18

Moved by: Bob Parsons

Seconded by: Steve Clarke

“THAT the minutes of July 9, 2018 meeting be approved as amended (motion 15/07/18 rescinded).”

Disposition: Carried

6. Business arising from the Minutes

- The rodeo event was held and all agreed it was a good event.

7. Correspondence

- Correspondence is shared with the Committee membership as received
- No correspondence noted at the meeting

8. Committee Reporting

Facilities and Grounds

- grounds were good for the rodeo

Sponsors

- Sponsor report indicated \$16,800 was collected in cash sponsorships
- In-kind partnerships were \$3,500

Vendors

- Vendors brought in \$3006 for the event
- No complaints about vendors this year

Marketing, Promotion, Advertising and Social Media

- Nothing to report about marketing and promotions
- It was suggested a poll in future could help determine the rodeo format
- The VIP lounge was not exclusive for sponsors this year – should be revisited for next year

Financial

- Financials were presented verbally
- Insurance cost of \$1,500 cut into profits
- Research insurance options for 2019 – including mutual coverage with municipality and Rodeo Management Group
- There is no more permanent liquor license to go under – so may need PAL insurance next year to cover the bar
- Will need to determine who would do the Special Occasion Permit for the bar
- New Special Events Policy coming in to effect will require proof of \$5M insurance
- Event profit is between \$4,000 and \$6,000 – final figure still unknown

Events/Activities/Entertainment

- Good rodeo – no complaints
- Discussion about bringing back the “redneck games” in 2019
- Bouncy horses were popular
- Potential to have an additional event on Saturday prior to show
- Lions may be able to take over the Friday night kick-off – Craig is talking to club about it

Chair/Vice Chair Comments

- Chair thanked the committee for making it fun again this year

9. New & Other Business

- Suggestion to check if an old-style rodeo is still available through RMG
- Potential to poll through FB on what people prefer
- Change in rodeo format was discussed
- Ratify new members for council consideration – new volunteers added to committee

Motion – 19/09/18

Moved by: Bob Parsons

Seconded by: Dave Marshall

“THAT Exeter Rodeo Committee recommend to South Huron Council that Darcey Cook and Mike Clarke are hereby appointed to the Rodeo Committee.”

Disposition: Carried

10. Unfinished Business

- The opportunity for the rodeo committee to donate funds to community recreation projects, as per the terms of reference of the committee, was discussed. The committee revisited discussion from the previous meeting and put forth a new motion to replace the one rescinded from the previous meeting.

Motion – 20/09/18

Moved by: Craig Hebert

Seconded by: Bob Parsons

“THAT the Rodeo Committee recommends to the Municipality of South Huron council that funds from the Rodeo reserve be used to purchase an Optimist Armor Stone (\$1,000); provide a \$14,000 donation toward the Exeter and District Swimming Pool Renovation project and a \$5,000 donation toward the Dashwood Community Hall renovation project – for a total of \$20,000 toward community recreation projects.”

Disposition: Carried

- Committee member Bob Parsons announced his retirement from the committee. This will be his last meeting. Bob was thanked for his years of dedication to the rodeo. His resignation was accepted by motion.

Motion – 21/09/18

Moved by: Craig Hebert

Seconded by: Steve Clarke

“THAT the Rodeo Committee accepts the resignation of member Bob Parsons with thanks for his service to the community.”

Disposition: Carried

- Community Services Manager Jo-Anne Fields then offered news that she has announced her retirement from her position with South Huron as of January 18, 2019. She expressed her gratitude for all the hard work of the committee and her intention to volunteer for the committee once she has retired.

11. Date of Next Meeting

- Next regular meeting will be held at South Huron Recreation Centre on Monday,

November 26, 2018 at 7:00 pm. Thereafter, beginning in January 2019, meetings will be scheduled on the fourth Monday of the month, or at the call of the Chair.

12. **Committee Photo** – members then gathered in the Banquet Hall for team photos.

12. **Adjournment**

Motion – 20/09/18

Moved by: Scott Nickles

Seconded by: Craig Hebert

“THAT the meeting be adjourned at 8:42 pm.”

Disposition: Carried

Chair – Scott Nickles

Date

Recording Secretary – Kate Russell

Date



**Corporation of the Municipality of South Huron
Community Hub/Recreation Project Steering Advisory Committee
Minutes**

**August 14, 2018
7:00 PM – 8:00 PM
Carling Room**

Members:

Chair, Dawn Rasenberg
Mayor Maureen Cole, Ex-Officio
Councillor Craig Hebert
Councillor Ted Oke
Peter Hrudka
Robert Oud
Craig Ivatts
Ron Mayer
Darlene McKaig

Regrets:

Vice Chair, Mike Ondrejicka

Staff:

Dan Best, CAO
Scott Currie, Recording Secretary
Sean Dillon, YMCA - By Phone

1. Call To Order

The chair called the meeting to order at 7:01PM.

2. Agenda

Motion: 52-2018

Moved: McKaig

Second: Cole

Disposition: Carried

That the Agenda for August 14, 2018 be approved as presented.

3. Disclosure of Pecuniary Interest and the General Nature Thereof

None

4. Minutes

Motion: 53-2018

Moved: Hebert

Second: Hrudka

Disposition: Carried

That the minutes of July 17, 2018 be adopted as presented.

5. Business Arising

Mayor Cole advised that Council discussed feedback received from the public expressing concern that seniors over the age of 64 were being excluded from the LeisurePlan survey.

Staff advised that on September 20th, the Municipality of South Huron is hosting a “Health and Wellness Forum” in partnership with the Huron County Health Unit. This will be a tradeshow style event designed to connect regional residents to the outstanding service providers close to home.

6. Business to be Discussed

6.1 YMCA Focus Groups

The group received a presentation from Sean Dillon outlining the format of consultative focus groups that will be used to collect information about the project from willing participants and community groups.

The Committee discussed dates and locations for the first series of focus groups, which will concentrate on gathering information from seniors.

- Monday, August 27 6-8 pm, South Huron Recreation Centre, Exeter
- Thursday, August 30 2-4 pm, Grand Cove/Grand Bend area

7. Work Plan Review

8. Committee Updates

None

9. Correspondence

None

10. Key Messages

The group received a presentation from the YMCA outlining the format of consultative focus groups that will be used to collect information about the project from willing participants and community groups.

The Project Steering Committee values the opinions of all residents and is actively seeking input on the proposed new community hub / recreation centre project from the entire community.

Any resident can share their opinion about their recreation preferences by contacting the municipality directly at 519.235.0310 x 231 or communications@southhuron.ca.

11. Adjournment

Motion: 53-2018

Moved: Oud

Second: Oke

Disposition: Carried

Recommendation:

That the Community Hub/Recreation Project Steering Advisory Committee hereby adjourn at 8:41 PM to meet again on August 28 at 6:00 pm or at the Call of the Chair.



**Corporation of the Municipality of South Huron
Community Hub/Recreation Project Steering Advisory Committee**

Minutes

September 11, 2018

7:00 PM – 9:00 PM

Carling Room

Present:

Chair, Dawn Rasenberg
Vice Chair, Mike Ondrejicka
Councillor Craig Hebert
Councillor Ted Oke
Ron Mayer
Darlene McKaig
Peter Hrudka

Staff:

Dan Best, CAO
Scott Currie, Recording Secretary
Sean Dillon, YMCA

Regrets:

Craig Ivatts
Mayor Maureen Cole, Ex-Officio
Robert Oud

1. Call To Order - 7:03PM

The chair called the meeting to order at 7:03 PM.

2. Agenda

Motion: 54-2018

Moved: McKaig

Second: Oke

Disposition: Carried

That the Agenda for September 11, 2018 be approved, as presented.

3. Disclosure of Pecuniary Interest and the General Nature Thereof

None

4. Minutes

Motion: 55-2018

Moved: Hrudka

Second: Oke

Disposition: Carried

That the minutes of August 14, 2018 be adopted as presented.

5. Business Arising

6. Business to be Discussed

6.1 LeisurePlan International: review report timeline

- A final report with an executive summary is expected the first week of October; a presentation/workshop with LeisurePlan explaining the project and results to the Committee will follow in the weeks after receiving the report.

6.2 Focus Group: status briefing

- The Committee received a report from YMCA regarding the Focus Group work plan.
- Two Focus Groups for seniors were held at the end of August - August 27th in Exeter, August 30th in Grand Bend.
- In total, approximately 70 people attended these workshops.
- The next series of Focus Groups will be by invite only, and target fitness, recreation and arts & culture user groups. They will take place in October through to early November.

6.3 Health and Wellness Forum presentation

- The Project Steering Committee will deliver a community update presentation at this event

6.4 Fundraising Feasibility RFP update

- The Municipality will send out the RFP prior to the end of the month. The Committee can report to Council in November with a recommendation.

7. Work Plan Review

Some minor revisions are forthcoming; an updated copy will be circulated to the Committee with the next meeting agenda.

8. Committee Updates

None

9. Correspondence

None

10. Key Messages

- The committee is anticipating the delivery of the LeisurePlan Market Study final report and Executive Summary in early October.
- Over the next two months, the committee will conduct Focus Groups discussions with user groups as one of many methods to collect information from the public for this research project.

11. Adjournment

Motion: 56-2018

Moved: Ondrejicka

Second: Mayer

Disposition: Carried

That the Community Hub/Recreation Project Steering Advisory Committee hereby adjourn at 8:45 PM to meet again on September 25, 2018 at 7:00 pm or at the Call of the Chair.



SOUTH HURON POLICE SERVICES BOARD

South Huron Municipal Office – Verity Room
Tuesday, September 11, 2018 – 4:05 pm

Members Present

Chair	Jim Dietrich
Member	Mark Hartman
OPP	Inspector Jason Younan Acting Inspector Dean Croker
Administration	Jo-Anne Fields
Regrets	Maureen Cole

1. Call to Order & Welcome

- Chair, Jim Dietrich welcomed the members to the meeting and thanked them for their commitment to policing in South Huron.

2. Conflict of Interest and General Nature Thereof

- No Conflict of Interest declared

3. Changes/Additions to the Agenda

- There are no changes/additions to the Agenda

4. Approval of the Agenda

Motion – 27/09/18

Moved by: Mark Hartman
Seconded by: Jim Dietrich

“THAT the Agenda be approved as circulated.”

Disposition: Carried

5. Approval of the Minutes

Motion – 28/09/18

Moved by: Mark Hartman
Seconded by: Jim Dietrich

“THAT the minutes of June 12, 2018 meeting be approved as circulated.”

Disposition: Carried

6. Business arising from the Minutes

- No business arising from the Minutes

7. O.P.P. Report

- Detailed reports were distributed prior to the meeting for review and to allow for effective discussion at the Board meeting
- Acting Detachment Commander Dean Croker provided a brief bio
- Crime and Traffic report stats were reviewed for the months of June, July and August 2018
- Provided an overview of violent crime, property crime, drug crime, as well as the clearance rates
- Property crimes have been on the decline – proactive policing has been identified as a contributing factor
- Drug crimes remain the consistent
- Noted that clearance rates average 28 – 29%
- As of September 1, 2018 there have been 564 requests for Criminal Records checks
- Highlights of the press releases was provided
- Reviewed the Calls for Service Billing Summary Report from June to August as circulated
- Chair Jim Dietrich thanked Acting Inspector Croker for presenting the report

Motion – 29/09/18

Moved by: Mark Hartman
Seconded by: Jim Dietrich

“THAT the O.P.P. Report be received as presented.”

Disposition: Carried

8. Correspondence

- Huron OPP – Inspector Jason Younan – Temporary Assignment – Introduction of Acting Inspector Dean Croker
- 2017 Progress Report – main focus in Huron County is property crimes, dealing with Mental Health and the elderly as well as addressing the Big Four – major driving offences – distracted driving, speeding, impaired and aggressive driving

9. New Business

- Review of 2018 revenue and expenditures to date – on target
- Proposed 2019 South Huron Police Services Administration Budget
- Fields reviewed the budget costing centres and provided feedback on revenue and expenditures

Motion – 30/09/18

Moved by: Mark Hartman
Seconded by: Jim Dietrich

“THAT the proposed 2019 South Huron Police Services Board Administration budget be forwarded to Council for consideration.”

Disposition: Carried

- OAPSB Zone 5 Meeting – September 18, 2018 – Hosted by the Waterloo Police Service

10. Unfinished Business

- At the June 12, 2018 meeting, the following motion was passed authorizing Huron OPP Inspector Jason Younan financial support towards the Police-Youth Advisory Council (PYAC) event on June 15, 2018
- The intention of the council is for police and youth to work collaboratively on issues that specifically impact youth in our communities
- June 15, 2018 the PYAC is hosting a emergency services vehicle pull
- Requesting support from the South Huron Police Services Board and the Municipality of South Huron
- Support of the PYAC will demonstrate to the students that South Huron is committed to youth engagement and initiatives
- Inspector Younan presented the Board with the original receipts for \$142.80 for reimbursement for purchases of supplies for the Police-Youth Advisory Council as approved at the June 12, 2018 South Huron Police Services Board Meeting – Motion # 25/06/18

Motion – 25/06/18

Moved by: Mark Hartman
 Seconded by: Jim Dietrich

“THAT the South Huron Police Services Board support the PYAC event on June 15, 2018 in the amount of \$250.00 for the purchase of food and drink;

And that receipts will be provided to the Board for reimbursement to Inspector Jason Younan.”

Disposition: Carried

- **Community Representative position** as appointed by resolution of Council – shall not exceed the term of office of the Council that appointed the member – a member appointed by resolution of a council may continue to sit after the expiry of his or her office until the appointment of his or her successor and is eligible for reappointment
- Vacancies for the public representative shall be advertised in the local newspaper(s) and on the municipal website
- **OPP Modernization 11 Project** – OPP is moving forward with the building of the new Detachment in Huron County
- Location will be 325 Albert Street in Clinton
- The Detachments are being built to create efficiencies. Existing structures are past their expected lifespan and are being replaced with new, modern facilities that will continue to exceed adequacy and effectiveness standards for policing
- Some construction will commence this fall and the majority will take place next spring
- Nine detachments are being built across the Province of Ontario

11. Date of Next Meeting

- Next meeting regular will be held at the South Huron Municipal Office on Tuesday, October 9, 2018 at 4:05 pm or sooner at the call of the Chair.

12. Adjournment

Motion – 31/09/18

Moved by: Mark Hartman
 Seconded by: Jim Dietrich

“THAT the meeting be adjourned at 5:10 pm.”

Disposition: Carried

Chair – J. Dietrich

Recording Secretary – J. Fields

Date

DRAFT

South Huron Police Services Board

Proposed Administrative Budget 2019

Note: This proposed budget request mirrors the 2015, 2016, 2017 & 2018 Administrative Budget, without an increase

Revenue

Fines – Record searches/tickets	8,130.00	
Grant Revenue – RIDE	<u>8,913.00</u>	
Total Revenue		17,043.00

Expenditures

0155 Training/Conference	7,171.00	
0800 Supplies/Services	9,413.00	
1000 Salary/Wages	9,245.00	
1100 Benefits	425.00	
1110 Mileage/Meeting Expenses	<u>2,685.00</u>	
Total Expenses		<u>28,939.00</u>
		(\$11,896.00)

DRAFT Minutes of the

Kirkton Woodham Community Pool (KW Pool)
Kirkton Community Centre
Thursday September 20, 2018
7:00 p.m.

Members Present:

Chair: Jodi Froud

Vice Chair: Jenna Becker

Secretary: Pam Benoit

Municipality of South Huron (MOSH): Councilor Ted Oke

Township of Perth South (TPS): Councilor Melinda Zurbrigg

Members: Candice Harris, Lisa Hartman, Shannon O'Shea Ross

Call to Order and Welcome Chair Jodi Froud welcomed the members to the meeting and thanked them for their commitment to the KW Community Pool.

Election of Officers – Chair, Vice-Chair, Secretary

Position – Chair Recording Secretary Pam Benoit called for nominations for the position of Chair for the Kirkton Woodham Community Pool for the first time. Pam Benoit nominated Jenna Becker for the position of Chair. Pam Benoit called for nominations for a second time and for a third and final time. There were no further nominations.

Position – Vice-Chair

Recording Secretary Pam Benoit called for nominations for the position of Vice-Chair for the Kirkton Woodham Community Pool for the first time. Pam Benoit called for nominations for a second time and for a third and final time. There were no nominations. Position is vacant.

Nominations were closed and the positions were declared filled as follows: Chair – Jenna Becker Vice-Chair – Vacant. Carried

Pam Benoit called for nominations for the position of secretary. Pam Benoit was nominated and accepted the nomination.

The agenda was approved as amended. Melinda Zurbrigg requested recruitment of new committee members be added.

Candice Harris approved the minutes as circulated. Lisa Hartman seconded. All in favour. Carried.

Treasurer Report: Ted Oke presented the 2017 financial statements.

Old Business:

A list of maintenance/repair requests for the summer of 2018 still has work outstanding.

Jenna to contact MOSH for attention to the following:

1. Inside Girls change room Door – the door continues to open and close regularly at short intervals. The concern is that the motor will die out should this continue.
2. The new toilet in the girl's change room continues to run and does not flush correctly.
3. A proper umbrella holder is needed in the guard chairs to allow for proper sun coverage.
4. An arena board was to be provided to secure to the guard room wall to cover the peeling paint.
5. The sun lotion dispenser was to be re-attached to the wall in the girl's change room.

In addition to these task, something needs to be done at the stairs leading to the pool seating area. Currently, the cement ledges are a danger to small children who tend to climb on these ledges.

New Business:

Recruitment. Volunteers are required and it was suggested everyone do their part to encourage people to join.

Season Report:

Summary of Numbers for Year

Lessons: 339 vs 269 in 2017

Bronze Medallion / Cross: 7 successful participants

Rentals: 6

Lane Swim/AquaFit: increased from last year

Public Swim: approx. 2,670 swimmers overall

Family Pool Passes: 30 down from 38

Swim Team: 13 combined swimmers

Day Camp: 136 participants

Pool operations – seemed to go well with the exception of the pump quitting. Staff and committee expressed disappointment in the response times and attention from MOSH. Some of the opening to-do items are still on the list and did not receive attention.

Overall the season was successful.

Staff Relations Report:

Lessons – everything went well. One suggestion was to start evening lessons week 1.

Guarding was uneventful and seemed to work out well as per hours etc.

Internal Relations – some struggles with personality challenges but overall everyone was able to overlook this and the pool ran smoothly.

Staff/Committee – the committee took a more involved position this year. This is imperative for the pool to run properly.

Scheduling – all guards were pleased with the hours they received.

Mural Contest: 1 entry was received and it was determined that it will be used as a banner for the SH Swordfish Swim Team. Painting or decals will be used on the arena board and will be secured to the wall.

Gable End: This requires attention due to peeling paint. Options are vinyl siding or re-painting the plywood. Pam to look into which option is cost efficient and attainable and report at the next meeting.

Change Room Floors: Jodi Froud presented a quote to have the change room and guard room floors treated with a non slip surface. The quote is \$5000. for the complete job. Pam Benoit motioned the committee move forward with this project and have the floors painted grey for a total cost of \$5000. to be completed by opening summer 2019.

Jenna Becker seconded.

All in favour.
Carried.

Requests for funding need to be completed and forwarded to MOSH and the Municipality of Perth South prior to budget meetings.

Melinda Zurbrigg motioned to adjourn at 8:45 pm.



PLANNING & DEVELOPMENT

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Consent Application Report – File # C48/2018

Owner: Leon and Helen Coolman	Date: September 24, 2018
Applicant: Leon and Helen Coolman	
Property Address: 39355-39381 Dashwood Road	
Property Description: CON N BDY E PT Lot 6	

Recommendation:

That provisional consent be:

- granted with conditions (attached)
- deferred (for ...)
- ✓ **denied (referred to County Council, for a decision)**

Purpose:

- enlarge abutting lot
- ✓ create new lot
- surplus farm dwelling
- right-of-way / easement
- other:

Area:	Official Plan Designation	Zoning
Severed: 2 acres (0.8 ha)	Agriculture	AG2-10
Retained: 45 acres (18.2 ha)	Agriculture, Natural Environment and Watercourse	AG2-10 and NE1

Review: This application:

- Is consistent with the Provincial Policy Statement (s. 3(5) Planning Act);
- ✓ Does not require a plan of subdivision for the proper and orderly development of the municipality (s. 53(1) Planning Act);
- Conforms with section 51(24) of the Planning Act;
- Conforms with the Huron County Official Plan;
- Conforms with the South Huron Official Plan;
- Complies with the municipal Zoning By-law (or will comply subject to a standard condition of rezoning or minor variance);
- n/a Has been recommended for approval by the local municipality; and
- Has no unresolved objections/concerns raised (to date) from agencies or the public.

(Applications that do not meet all of the foregoing criteria will be referred to the Committee of the Whole for a decision)

Agency/Public Comments:

	Not Received or N/A	No Concerns	Comments/Conditions
Conservation Authority (ABCA)		✓	ABCA made comment that it does not have any natural hazard or natural heritage concerns with the requested severance.

Neighbours/Public	√		None received.
Huron County Highways		√	Noted two lots could utilize existing driveway accesses. If changes are proposed to the existing entrances after construction of a new dwelling applicable application for new entrance/minor variance to Public Works would be required.
Huron County Health Unit		√	
South Huron Staff			South Huron Environmental Services department notes concern with development proposed adjacent to an active landfill due to issues associated with noise, odour, litter, methane gas and ground water impacts.

Purpose

Based on submission materials, the area proposed to be severed is approximately 2 acres (0.8 hectares) of vacant land; the existing two storage trailers are proposed to be removed. The applicant intends to construct a future residential dwelling on the severed parcel. The land to be retained is approximately 45 acres (18.2 hectares) and contains a house, shed, pavilion and cabin. Greenhouses were established on the proposed severed parcel in 2001, and then in 2011 the use discontinued and the greenhouse were removed. Subsequently, the owners planted trees on this portion of the property rather than returning it to farmland. This consent proposes to create a vacant non-farm residential lot which is not supported by policy, the application is also not considered a surplus residential dwelling, nor has a residential use existed previously on the proposed area to be severed.

Review

Provincial Policy Statement

The Provincial Policy Statement, 2014 (PPS) Section 2.3.4.1 states that lot creation in prime agricultural areas is discouraged and may only be permitted for: agricultural uses, agriculture-related uses, a residence surplus to a farming operation and infrastructure. Section 2.3.4.3 explicitly prohibits the creation of new residential lots in prime agricultural areas unless they are a residence surplus to a farming operation. As the severance proposes to create a vacant residential building lot in a prime agricultural area the application is not consistent with the Provincial Policy Statement.

Huron County Official Plan

The Huron County Official Plan Section 2.3.1 recognizes Huron County as a prime agricultural area which includes the subject property. Non-farm related development is directed to settlement areas. Further, Section 2.3.7 discourages lot creation in prime agricultural areas and only permits severances for agricultural purposes, commercial and industrial uses directly related to agriculture, a residence surplus to a farming operation, infrastructure and public service utilities that cannot otherwise be accommodated, and minor lot adjustments subject to the local Official Plan. As the severance proposes to create a vacant residential parcel in a prime agricultural area, and does not meet the requirements of Section 2.3.7, the application does not conform to the County Official Plan.

South Huron Official Plan

The lands proposed for severance are designated Agriculture in the South Huron Official Plan.

Section 4.3.5 discourages uses which are not primarily related to agriculture from establishing in the agriculture area.

Section 4.4.2 Lot Size states that lot sizes shall be based on the long-term needs of agriculture and shall ensure lands remain flexible for all forms of agriculture as promoted by this Plan. Lands must be used for the production of food, fibre, biomass or livestock. A minimum lot size of 38 hectares shall apply to all new lots being created and is based on the long term needs of Agriculture.

Section 4.4.9 Non-Agricultural Development states that agricultural lands as designated should be protected. Non-agricultural development shall be directed to locate in the settlement areas.

Agricultural Land Division Policy Section 13.3.1.1 states where the lands being conveyed or retained is for agricultural purposes, a consent may be granted where both the severed and retained parcels respect the need for long term agricultural flexibility. Further, the proposed operation must be an agricultural operation, agriculture must be the intended use of the lands being conveyed, and a minimum lot size of 38 hectares is required.

Agricultural Land Division Policy Section 13.3.1.6 states that consents will not be allowed which have the effect of creating a use not directly related to agriculture. Non-farm rural residential lots will not be allowed.

The subject lands are also located within the identified 500 metre radius of the operating South Huron Landfill. Under Section 11.1.3.5 Development Adjacent to Landfill Sites, no development will be permitted within the identified influence of an open or closed landfill until satisfactory measures have been implemented to mitigate the impacts from the landfill site including but not limited to review under Ministry of Environment Guideline D-4 Land Use on or Near Landfills and Dumps. South Huron staff also noted concern with development/building within proximity of an open landfill, including concern such as noise, odour, litter, methane gas and ground water impacts.

The proposed severed lands would have the effect of creating a non-farm rural residential lot. The proposed consent also creates a deficient severed parcel size and a deficient retained parcel size. The proposed severance also does not meet requirements for development adjacent to a landfill. This application does not conform to the South Huron Official Plan policies.

Township of Stephen Zoning By-law 12-1984

The subject lands are currently zoned AG2-10 (Restricted Agriculture Special Provisions) in the Township of Stephen Zoning By-law. The special provisions under this zone stipulate a minimum lot area of 19 hectares (46 acres). According to the MPAC data, the subject lands are 19.3 hectares (47.75 acres) in size. The proposed consent would result in a severed parcel of 0.8 hectares (2 acres) and a retained parcel of 18.2 hectares (45 acres). 7uThe proposed consent does not conform to the Township of Stephen Zoning By-law.

Figure 1: Aerial of subject property. Severed parcel identified in red. Retained parcel identified in yellow.



Figure 2: Aerial view of severed parcel.



Figure 3 and 4. Photos of lands proposed to be severed.



Summary:

This application is not consistent with the Provincial Policy Statement, and does not conform with the Huron County Official Plan and the South Huron Official Plan. It is recommended this consent application be denied.

While there are no precedents set for planning applications, it would be reasonable to expect that if this application to create a non-farm residential lot in an Agricultural area is approved, Council will receive similar applications, all expecting a similar approval.

In 2010, Huron County Council approved a similar severance application to create a non-farm residential lot in an Agricultural area. The decision was appealed to the Ontario Municipal Board by the Ministry of Municipal Affairs and Housing, the Ontario Federation of Agriculture and a private property owner. The applicant ended up withdrawing the application.

Conditions have not been included because it is recommended that this application be denied.

Sincerely,

'Original signed by'

Sarah Smith

September 24, 2018

Date

Leon & Helen Coolman

39381 Dashwood Rd,

NOM 1W0

July 16, 2018

TO: Municipality of South Huron Council

Attached is an Application for Consent to Huron County which we understand will not be accepted due to policy and not meeting requirements of the official plan of the County.

We would like to make a case to Council for severance of approximately 2 acres (190 x 469') from 39381 Dashwood Road, 47 Acre Property consisting of AG2-10 and NE1. Please note that this severance that is being requested will not impact the NE land. Pictures are attached for the proposed parcel that we require to build a residential home and shed for our use. We do not want to leave the area and like where we are residing however due to age and the work involved with our present land, downsizing is something that we would like to do.

Please note that in 2001 we received Council's approval to rent this same section to a couple who operated a greenhouse. The entrance to this was paved as per MTO approval for entrance from the highway. Hydro and gas were installed to this property and a copy of this is also attached. In 2001 a 911# was given to this property and the number also shows on our Tax Bill. The 911 # is 39355. The greenhouse operated for 10 years until 2011.

We have since then planted trees on this part of the land. The agricultural land on this property is only 24 workable acres. The piece of property in question has not been farmed for over 10 years and with the gravel lot, utilities, trees, etc would not be turned back to farm land. There are 2 trailers on this piece of land, one had been used for an office at the time of rental of greenhouse and the other stores wood. Both of these would be removed.

We have discussed a home and shed for this land with neighbours and there are no problems. There are no livestock or barns close by.

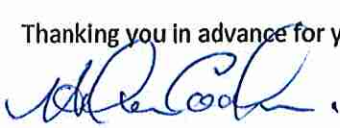
We would like the council to consider the special circumstance of requesting this severance and having the parcel of approximately 2 acres rezoned to AG4 which would permit a home and shed.

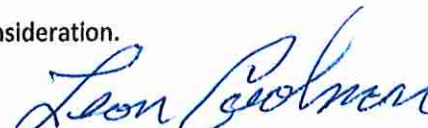
The Municipality would receive tax dollars and local contractors would receive money for the building of a home and shed.

We would appreciate a meeting with the Council to answer any further questions you may have pertaining to permission for severance for this parcel.

We can be reached at 519-237-3471 or Cell 519-871-7714.

Thanking you in advance for your consideration.


Leon and Helen Coolman



✓ copy
sarah.**Lisa Finch**

From: Jack Glavin <jglavin@glavin.net>
Sent: Wednesday, August 29, 2018 6:32 PM
To: Lisa Finch
Subject: Fwd: File C48-18 Coolman App.

----- Forwarded message -----

From: Jack Glavin <jglavin@glavin.net>
Date: Wed, Aug 29, 2018 at 1:45 PM
Subject: File C48-18 Coolman App.
To: helencoolman@hay.net

Att Lisa Finch

Just a comment on the proposed application for a lot severance, I have no concerns if approved. The parcel in question is already planted in trees and will not hinder any ag land. With the loss of so many rural buildings over the last several decades, this property if built on will be an asset to the local tax base, which is needed to sustain municipal services.

Regards
Jack Glavin.



PLANNING & DEVELOPMENT

57 Napier Street, Goderich, Ontario N7A 1W2 CANADA

Phone: 519.524.8394 Ext. 3 **Fax:** 519.524.5677 **Toll Free:** 1.888.524.8394 Ext. 3

www.huroncounty.ca

Consent Application Report – File # C55/2018

Owner: Brian and Helen Hardeman	Date: September 24, 2018
Applicant: Kim De Groot	
Property Address: 42546 Kirkton Road	
Property Description <i>Parcel to be retained</i> – Conc Southeast Boundary Pt Lot 8; Subject to ROW (42546 Kirkton Road) <i>Parcel to which severed will be added</i> – Conc Southeast Boundary PT Lot 8; as RP 22R783 Part 1 to 2 (42544 Kirkton Road)	

Recommendation:

That provisional consent be:

- √ **granted with conditions (attached)**
deferred (for ...)
- denied (referred to the Committee of the Whole, for a decision)

Purpose:

- √ enlarge abutting lot
- create new lot
- surplus farm dwelling
- right-of-way / easement
- other:

Area:	Official Plan Designation	Zoning
Severed: 4,250 square feet	Natural Environment	VR1
Retained: 93,206 square feet	Natural Environment, Urban, Floodline	VC1

Review: This application:

- √ Is consistent with the Provincial Policy Statement (s. 3(5) Planning Act);
- √ Does not require a plan of subdivision for the proper and orderly development of the municipality (s. 53(1) Planning Act);
- √ Conforms with section 51(24) of the Planning Act;
- √ Conforms with the Huron County Official Plan;
- √ Conforms with the South Huron Official Plan;
- √ Complies with the municipal Zoning By-law (or will comply subject to a standard condition of rezoning or minor variance);
- n/a Has been recommended for approval by the local municipality; and
- √ Has no unresolved objections/concerns raised (to date) from agencies or the public.

(Applications that do not meet all of the foregoing criteria will be referred to the Committee of the Whole for a decision)

Agency/Public Comments:

	Not Received or N/A	No Concerns	Comments/Conditions
Conservation Authority (UTRCA)		√	
Neighbours/Public	√		None received.
Huron County Highways		√	
Huron County Health Unit	N/A		
South Huron Staff			See conditions.

Figure 1: Aerial of subject property. Retained parcel identified in yellow. Severed parcel identified in red. To be added to lands to west, identified in green being an existing Residential parcel.



Figure 2 and 3. Photos of lands proposed to be severed.



Purpose

The purpose of this application is for an addition to a lot. The lands to be severed are approximately 4,250 square feet and consist of an existing shed. This shed is used by the owner of the abutting parcel, but was historically built across the property line. The result of this consent will transfer an area of land with a shed to the property that uses this structure ensuring the accessory structure is within the property boundaries to the parcel it serves. The applicant has noted there is no hydro or water to the shed. The lands to be retained are approximately 93,206 square feet and consist of a house and shed.

Review

South Huron Official Plan

The subject lands are located in the Kirkton Settlement Area Boundary, designated Urban, Natural Environment, and Floodline. The area of proposed severance is designated Urban and Natural Environment. Under the South Huron Official Plan consents are permitted in Tertiary Settlement areas for lot enlargement purposes. General consent policies in the South Huron Official Plan also permit severances for lot enlargement purposes on lands designated Natural Environment.

As noted in the purpose, the proposed lot enlargement is being requested to include an existing shed within the property boundaries of the residential parcel that utilizes it. This consent constitutes a lot enlargement, and will correct an existing situation where an accessory structure crosses a property line. The request meets the policies for severance for servicing purpose and is in compliance with the South Huron Official Plan.

Township of Usborne Zoning By-law 13-1984

The proposed severed parcel is zoned VC1 (Village Commercial) and will be added to a parcel zoned VR1 (Village Residential). The existing VR1 parcel meets minimum zone provisions,

and with the additional land proposed under consent, will continue to meet zone provisions. The consent will also alter a property line and include an accessory shed fully in the lot boundaries. The distance between the accessory structure and proposed rear lot line will meet zone provisions based on the sketch submitted by the applicant.

The lands to be retained are currently zoned Village Commercial (VC1) and will remain under this zone. Following consent, the retained parcel will still maintain VC1 zone provisions for area and frontage, and the newly created interior lot line also meets minimum yard provisions to the existing dwelling on the retained lands. The provisions of the Township of Usborne Zoning By-law are met through this consent.

Additional Comments:

This application has been circulated to agencies and public. No formal comments were received from the public at time of writing this report. Comments were received from South Huron Staff, Huron County Public Works and Upper Thames Region Conservation Authority; comments are included in agency comments summary.

Summary:

As this application represents a lot enlargement that will ensure an accessory shed is within the boundaries of one parcel, and meets the intent of the South Huron Official Plan and Township of Usborne Zoning By-law it is recommended it **be approved**.

Sincerely,

'Original signed by'

Sarah Smith

September 24, 2018

Date

Should Council choose to recommend this application for approval by the County of Huron, the conditions below are recommended. The application would be approved, on the condition that:

Expiry Period

1. Conditions imposed must be met within one year of the date of notice of decision, as required by Section 53(41) of the Planning Act, RSO 1990, as amended. If conditions are not fulfilled as prescribed within one year, the application shall be deemed to be refused. Provided the conditions are fulfilled within one year, the application is valid for two years from the date of notice of decision.

Municipal Requirements

2. Any and all monies owed to the Municipality must be paid in full, which may include but are not limited to servicing connections, cash-in-lieu of park dedication, property maintenance, water and wastewater charges, garbage and recycling charges, property taxes, compliance with zoning by-law provisions for structures etc.

Survey/Reference Plan or Registerable Description

3. Provide to the satisfaction of the County and the Municipality:
 - a) a survey showing the lot lines of the severed parcel and the location of any buildings thereon, and
 - b) a reference plan based on the approved survey;

Zoning

4. Where a violation of any municipal zoning by-law is evident, the appropriate minor variance or rezoning be obtained to the satisfaction of the Municipality.

Merging

5. The severed land merge on title with the abutting property (42544 Kirkton Road) to the south upon issuance of the certificate under Section 53(42) of the Planning Act, RSO 1990, as amended.
6. A firm undertaking be provided to the satisfaction of the County from the solicitor acting for the parties, indicating that:
 - a. the severed land and the abutting property to the south will be consolidated into one P.I.N. under the Land Titles system; or
 - b. where consolidation is not possible as the parcels to be merged are registered in two different systems (e.g. the Registry or Land Titles system), a notice will be registered in both systems indicating that the parcels have merged with one another and are considered to be one parcel with respect to Section 50 (3) or (5) of the Planning Act, R.S.O. 1990, C P.13 as amended.
7. Section 50(3) or (5) of the Planning Act, RSO 1990, as amended, applies to any subsequent conveyance or transaction of the severed land.

8. The applicant confirm there are no hydro or water connections to the shed that run from the retained parcel. If services are provided to the shed from the retained parcel the applicant must ensure new connections are provided from the lands the severed parcel is to be added to (i.e. the VR1 parcel identified as 42544 Kirkton Road) to the satisfaction of the Municipality of South Huron.



Staff Report

Report To: Dan Best, Chief Administrative Officer
From: **Don Giberson, Environmental Services Director**
Date: October 1 2018
Report: ESD.18.32
Subject: DWQMS Annual Management Review

Recommendations:

That South Huron Council receives the report from Don Giberson, ESD Director re: DWQMS Annual Management Review and selects a Council representative to participate in this review.

Purpose:

The purpose of this report is to request a Council representative to participate in the Annual DWQMS Management Review.

Background and Analysis:

The Safe Drinking Water Act requires an annual Management Review to be conducted in accordance with the Drinking Water Quality Management Standard. The DWQMS requires that a Management Review be carried out annually with Top Management and the Owner that evaluates the continuing suitability, adequacy and effectiveness of the Quality Management System.

The previous Management Review was conducted on October 11, 2017. The Management Review ensures Top Management and the Owners involvement in the QMS. Top Management is to ensure the review is performed, deficiencies are identified and the results are reported to the Owner.

The Management Review Procedure in South Huron's QMS Operational Plan, sets out that a representative of Council is to participate in this meeting. A

Management Review meeting has been scheduled for 9:00am on October 30, 2018 and Staff requires a Council representative to participate.

Operational Considerations:

No alternatives were considered.

South Huron's Strategic Plan:

Section 6.2.2 of the Municipality of South Huron 2015- 2019 Strategic Plan identifies key objectives that are reflective of the collective perspectives of the strategic planning process.

The recommendations and actions outlined in this report are reflective of the following strategic objectives:

Administrative Efficiency and Fiscal Responsibility

Increased Communications and Municipal Leadership

Transparent, Accountable and Collaborative Governance

Dedicated Economic Development Effort

Financial Impact:

There are no financial implications for the Corporation resulting from the proposed recommendation.

Legal Impact:

There are no legal implications for the Corporation resulting from the proposed recommendation.

Staffing Impact:

There are no staffing implications for the Corporation resulting from the proposed recommendation.

Policies/Legislation:

1. Safe Drinking Water Act, 2002, S.O. 2002, c. 32

2. Ontario Regulation 170/03 - Drinking Water Systems
3. Ontario Regulation 188/07 - Licensing of Municipal Drinking Water Systems
4. DWQMS Regulation
5. South Huron QMS Operational Plan

Consultation:

Water/Sewer Foreman

Related Documents:

None

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Don Giberson', enclosed within a large, loopy oval shape.

Don Giberson, Environmental Services Director



**CORPORATION OF THE MUNICIPALITY OF SOUTH HURON
OFFICE OF THE MAYOR**

322 Main Street South P.O. Box 759
Exeter Ontario
NOM 1S6

Phone: 519-235-0310 Fax: 519-235-3304
Toll Free: 1-877-204-0747
www.southhuron.ca

October 2, 2018

Mr. R.M. (Bob) Sharen
Box 99
Grand Bend, ON
NOM 1T0

Council received the documentation you provided which included:

- Information provided as a delegation to Council on September 4, 2018 which included a letter to the Municipal auditors;
- Correspondence received on the Council meeting of September 17, 2018 which included signed correspondence pertaining to your delegation and two spreadsheets.

You have made serious allegations as to fraud perpetrated by the Municipality of Lambton Shores as it relates to the Grand Bend Sewage Treatment Facility.

The documentation you presented to Council does not support any such allegation and quite frankly it is incomprehensible. Accordingly there is no basis to take any further actions.

Council requires no further input from you on this topic and will not entertain any further delegations on this matter. Any further concerns or allegations should be directed to the Municipality of Lambton Shores.

Respectfully,

Mayor Maureen Cole MHA, BA, RN
Municipality of South Huron
m.cole@southhuron.ca
519-630-2891

cc. Council



CORPORATION OF THE MUNICIPALITY OF SOUTH HURON
Media Release
South Huron Digging Out After the Storm

FOR IMMEDIATE RELEASE
September 17, 2018

**Municipal empowerment tops FCM Board of Directors agenda
 attended by Mayor Maureen Cole**

South Huron – Local Mayor Maureen Cole was joined by municipal leaders from across the country in the County of Annapolis, Nova Scotia, to discuss the goals and objectives of Canada's municipalities for the year ahead. The topics of infrastructure, cannabis legalization and rural broadband dominated the conversation.

The discussion of municipal autonomy at this fall's Board Meeting took place against the backdrop of an important national discussion about the role of municipalities and their relationship with the provincial and federal orders of government. Above all, members agreed that now is the time to focus on local decision-making, greater empowerment for cities and communities, and the fiscal tools necessary to make that happen.

The FCM Board sent a unanimous message that municipalities will oppose any use of Section 33 (the notwithstanding clause) of the Charter of Rights and Freedoms that would have the effect of overriding local decision-making and democratic rights at the local level. The FCM Board also reaffirmed its support for the ability of municipalities to govern their own affairs and represent the interests of their residents.

"As federal political parties prepare for next year's election, it is time for a mature and modern conversation about how to empower municipal autonomy," said FCM President Vicki-May Hamm. "We need political will from every order of government to have a conversation about how we work together within the Constitution. With engaged federal partners, we know it can be done."

With legalization fast approaching, cannabis was key on the agenda during this year's meeting. Municipalities have been working hard to get ready for October 17th, but success requires ongoing collaboration and cooperation across all orders of government, most critically at the municipal level.

"Local governments are on the front lines of legalizing cannabis across Canada. Our priority is to keep our citizens safe and well-served," said Mayor Cole "As October 17 draws near, municipalities need more details on implementation, including assurances that municipal costs will be covered through financial tools like excise revenue sharing."

Reliable broadband is an essential service for Canadians, yet remains elusive for two million living in rural, remote and northern communities. FCM board members discussed the urgent need for an ambitious, long-term national broadband strategy lead by the federal government to ensure rural communities maintain their vital part role in Canada's economy.

"We have a situation where Canadian households are struggling to connect and businesses are unable to unlock their full potential. This is unacceptable," said Mayor Cole. "We need the federal government to lead this strategy through long-term, predictable solutions and major investments."

CORPORATION OF THE MUNICIPALITY OF SOUTH HURON

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www.southhuron.ca info@southhuron.ca



CORPORATION OF THE MUNICIPALITY OF SOUTH HURON

Media Release

South Huron Digging Out After the Storm

Board members were also updated on developments in the federal infrastructure plan. This plan was designed to empower municipalities to deliver transformational transit, green and rural infrastructure projects across Canada and in South Huron.

“The federal infrastructure plan we helped shape is unprecedented — in its \$180 billion scale, its 12 year commitment, its prioritization of municipal projects, and its tailored tools for rural and northern communities,” said Cole. “These investments can move projects forward to build stronger economic growth, lower greenhouse gas emissions and improve quality of life for all.” Across Canada, in communities large and small, urban and rural, municipalities are the order of government closest to people’s lives. Their local solutions are helping tackle national challenges—from growth and productivity to climate change—and are building a more livable, competitive Canada.

FCM is the national voice of municipal government in Canada. Its [Board of Directors](#) represents communities of all sizes from coast to coast to coast.

For more information, please contact:

communications@southhuron.ca



Visit our website at www.southhuron.ca

CORPORATION OF THE MUNICIPALITY OF SOUTH HURON

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**Ministry of
Municipal Affairs
and Housing**

Office of the Minister

777 Bay Street, 17th Floor
Toronto ON M5G 2E5
Tel.: 416 585-7000

**Ministère des
Affaires municipales
et du Logement**

Bureau du ministre

777, rue Bay, 17^e étage
Toronto ON M5G 2E5
Tél. : 416 585-7000



Monday, September 17, 2018

Statement from Minister Clark

The government's regional review will take a broad look at the current model, which has been in place for almost 50 years. It's time to consider whether changes are needed to improve municipal governance in communities where populations have grown and the hard-earned dollars of taxpayers are being stretched.

The goal is to work together with municipal governments to give the people what they want; local governments that are working as effectively and efficiently as possible to support the future economic prosperity of their residents and businesses. The people of Ontario work hard for their money, and we want to keep as much of it in their pocket as possible while continuing the excellent level of service people have come to expect from their municipal and provincial governments.

We look forward to discussing with our many stakeholders, including our municipal partners, to determine what is working well in our current governance model, and what needs to be improved.

-30-

For more information:

Michael Jiggins, 416-585-6492

Minister's Office

michael.jiggins@ontario.ca

September 17, 2018

Dear Municipal Colleague:

This morning, an editorial in the Toronto Star urged AMO to advocate for the City of Toronto, and against Ontario's newly elected provincial government, on the matter of Bill 31 (formerly Bill 5), which reduces the size of Toronto's City Council.

The public debate on the Bill and related use of the 'Notwithstanding Clause' is divided and emotional. The matter confirms that people are passionate about local municipal governance, taxation and public services. It has also put AMO in an awkward position.

The City of Toronto is not an AMO member, and since 2005, the City has made a point of being separate from us. It sought out and secured unique status with the Ontario government, and its own dedicated legislation: *the City of Toronto Act, 2006*. AMO has always respected the City of Toronto's decision to go it alone on governance and the authority of its Act. We certainly defer to the City of Toronto leadership on matters related to its relationship with the Government of Ontario.

Understandably, AMO focuses on service to the remaining 443 Ontario municipal governments that do not have the benefit of their own legislation. Our members have been clear about their top priorities: fiscal sustainability, recognition that one size does not fit all, working with us to improve services, and assurance that the Ontario government will not download its fiscal challenges onto municipal property taxpayers. In every regard, AMO members know that we can achieve far more working together, than we can by going it alone.

In August, we heard that the Province would not act in the same manner that it has with Toronto. We heard that it is committed to discussions with our membership and AMO, to understand what is working and what is not working. And importantly, we heard that consultation would inform future governance reviews. That commitment was repeated in a formal statement to AMO today.

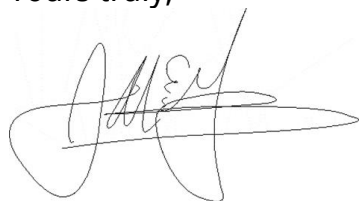
In the four weeks since the conference, we have experienced the following: Minister Clark, a former mayor and former AMO President, is having meaningful discussions with us on long-standing municipal concerns, spanning several ministries. The changes to Toronto's Council have dominated headlines, and over the past week, remarks have suggested that the government is planning to impose further changes on municipal governments across Ontario.

Late last week, I wrote to Minister Clark to emphasize that relations between Ontario's provincial and municipal orders of government should be guided by facts and evidence, rather than by political rhetoric and emotion. His quick response reflects, in part, our shared belief in the benefits of maintaining an open, respectful relationship.

AMO has a clear mandate to ensure that the Government of Ontario benefits from, and experiences, the full weight of Ontario's municipal order of government as we move forward. Our mandate to weigh-in on an issue affecting the City of Toronto is less clear. We recognize growing anxiety across the province. We urge the Ontario government to clearly state its interests in having a governance review, and how it will proceed. And we urge the Ontario government to work with AMO and the municipal order of government to change requirements that undermine municipal finance, infrastructure investment, and efficient service delivery all across Ontario.

This is an important time for AMO and we all have a responsibility to make sure that Ontario's municipal governments are speaking with a strong, clear voice on the priorities that matter most to us all. Our next Board meeting is later this month, and we welcome any input that you wish to share with us as we prepare for it.

Yours truly,

A handwritten signature in black ink, appearing to read 'J. McGarvey', with a long horizontal flourish extending to the right.

Jamie McGarvey
AMO President

Statement from Hon. Steve Clark, Minister of Municipal Affairs and Housing follows:

**Ministry of
Municipal Affairs
and Housing**

Office of the Minister

777 Bay Street, 17th Floor
Toronto ON M5G 2E5
Tel.: 416 585-7000**Ministère des
Affaires municipales
et du Logement**

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Tél. : 416 585-7000

Monday, September 17, 2018

Statement from Minister Clark

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The goal is to work together with municipal governments to give the people what they want; local governments that are working as effectively and efficiently as possible to support the future economic prosperity of their residents and businesses. The people of Ontario work hard for their money, and we want to keep as much of it in their pocket as possible while continuing the excellent level of service people have come to expect from their municipal and provincial governments.

We look forward to discussing with our many stakeholders, including our municipal partners, to determine what is working well in our current governance model, and what needs to be improved.

-30-

For more information:Michael Jiggins, 416-585-6492
Minister's Office
michael.jiggins@ontario.ca

Ontario
Provincial
Police

Police
provinciale
de l'Ontario



Municipal Policing Bureau
Bureau des services policiers des municipalités

777 Memorial Ave.
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777, avenue Memorial
Orillia ON L3V 7V3

Tel: 705 329-6200
Fax: 705 330-4191

Tél.: 705 329-6200
Télec.: 705 330-4191

File Reference:

612-20

September 24, 2018

Dear CAO/Treasurer,

Please find attached the OPP municipal policing 2019 Annual Billing Statement package.

This year's billing package includes a statement for the 2017 year-end reconciliation. The final cost adjustment calculated as a result of the 2017 annual reconciliation has been included as an adjustment to the amount being billed to the municipality during the 2019 calendar year.

The OPPA Uniform and Civilian Collective Agreements expire on December 31, 2018 and negotiations are underway for the next agreement. Estimated salary rates incorporated in the 2019 municipal policing annual statements are set to reduce the risk of municipalities potentially incurring significant reconciliation adjustments. A 1.9% general salary rate increase has been estimated based on current trends of municipal policing salaries.

The final reconciliation of the 2019 annual costs will be included in the 2021 Annual Billing Statement.

For more detailed information on the 2019 Annual Billing Statement package please refer to resource material available on the internet, www.opp.ca/billingmodel. Further, the Municipal Policing Bureau will be hosting a webinar information session in October. An e-mail invitation will be forwarded to the municipality advising of the session date.

If you have questions about the Annual Billing Statement please e-mail OPP.MPB.Financial.Services.Unit@OPP.ca.

Yours truly,

M.M. (Marc) Bedard
Superintendent
Commander,
Municipal Policing Bureau

OPP 2019 Annual Billing Statement**South Huron M**

Estimated cost for the period January 1 to December 31, 2019

Please refer to www.opp.ca for 2019 Municipal Policing Billing General Information summary for further details.

			Cost per Property \$	Total Cost \$
Base Service	Property Counts			
	Household	4,744		
	Commercial and Industrial	390		
	Total Properties	<u>5,134</u>	189.54	973,098
Calls for Service	(see summaries)			
	Total all municipalities	156,778,914		
	Municipal portion	0.5700%	174.06	893,619
Overtime	(see notes)		10.11	51,899
Prisoner Transportation	(per property cost)		2.27	11,654
Accommodation/Cleaning Services	(per property cost)		4.90	25,157
Total 2019 Estimated Cost			<u>380.88</u>	<u>1,955,427</u>
Year Over Year Variance (estimate for the year is not subject to phase-in adjustment)				
2018 Estimated Cost per Property			371.57	
2019 Estimated Cost per Property (see above)			<u>380.88</u>	
Cost per Property Variance		(Increase)	9.30	
2017 Year-End Adjustment	(see summary)			(18,380)
Grand Total Billing for 2019				<u>1,937,047</u>
2019 Monthly Billing Amount				161,421

OPP 2019 Annual Billing Statement

South Huron M

Estimated cost for the period January 1 to December 31, 2019

Notes to Annual Billing Statement

- 1) **Municipal Base Services and Calls for Service Costs** - The costs allocated to municipalities are determined based on the costs assigned to detachment staff performing municipal policing activities across the province. A statistical analysis of activity in detachments is used to determine the municipal policing workload allocation of all detachment-based staff as well as the allocation of the municipal workload between base services and calls for service activity. For 2019 billing purposes the allocation of the municipal workload in detachments has been calculated to be 56.2 % Base Services and 43.8 % Calls for Service. The total 2019 Base Services and Calls for Service cost calculation is detailed on the *Base Services and Calls for Service Cost Summary* included in the municipal billing package.
- 2) **Base Services** - The cost to each municipality is determined by the number of properties in the municipality and the standard province-wide average cost per property of \$189.54 estimated for 2019. The number of municipal properties is determined based on MPAC data. The calculation of the standard province-wide base cost per property is detailed on *Base Services and Calls for Service Cost Summary* included in the municipal billing package.
- 3) **Calls for Service** - The municipality's Calls for Service cost is a proportionate share of the total cost of municipal calls for service costs calculated for the province. A municipality's proportionate share of the costs is based on weighted time standards applied to the historical calls for service. The municipality's total weighted time is calculated as a percentage of the total of all municipalities.
- 4) **Overtime** - Municipalities are billed for overtime resulting from occurrences in their geographic area and a portion of overtime that is not linked specifically to a municipality, such as training. Municipalities are not charged for overtime identified as a provincial responsibility. The overtime activity for the calendar years 2014, 2015, 2016 and 2017 has been analyzed and averaged to estimate the 2019 costs. The costs incorporate the estimated 2019 salary rates and a discount to reflect overtime paid as time in lieu. The overtime costs incurred in servicing detachments for shift shortages have been allocated on a per property basis based on straight time. Please be advised that these costs will be reconciled to actual 2019 hours and salary rates and included in the 2021 Annual Billing Statement.
- 5) **Court Security and Prisoner Transportation (CSPT)**- Municipalities with court security responsibilities in local courthouses are billed court security costs based on the cost of the staff required to provide designated court security activities. 2019 costs have been based on 2017 security activity. Prisoner transportation costs are charged to all municipalities based on the standard province-wide per property cost. These costs will be reconciled to the actual cost of service required in 2019.

The Ministry of Community Safety and Correctional Services (MCSCS) has not finalized the 2019 municipal grant allocations and therefore the grant allocation has not been included in the annual billing statements. Municipalities will be notified of their 2019 grant allocation in the fall of 2018 and the 2019 municipal CSPT grants will be credited to municipalities in 2019, 25% in February and the remainder by September. Please note that a review of 2018 reconciled costs will need to be compared to the actual grant allocated for 2018. If the grant amount is more than the reconciled costs, an adjustment will be made to your 2019 grant allocation.

- 6) **Year-end Adjustments** - The 2017 adjustment accounts for the difference between the amount billed (excluding grants and revenue) based on the estimated cost in the *Annual Billing Statement* and the reconciled cost in the *Year-end Summary*. All costs in the *Annual Billing Statement* have a salary component. The delay in the settlement of the 2015 to 2018 OPPA Uniform and Civilian Collective Agreements resulted in an estimate of the 2017 general salary rate increase. The actual weighted average cost of a uniform FTE decreased slightly (0.6%) from the estimated rate. The salary rate reconciliation impact on the cost of Base Services and Calls for Service costs of the municipality is minimal. The most significant year-end adjustments are resulting from the cost of actual versus estimated municipal requirements for overtime, contract enhancements and court security. These costs are reconciled considering not only salary and benefit rate updates but also the extent of service provided during the year.

OPP 2019 Estimated Base Services and Calls For Service Cost Summary
For the Period January 1 to December 31, 2019

				Total Base Services and Calls for Service	Base Services	Calls for Service
Salaries and Benefits				\$	\$	\$
Uniform Members	(Note 1)	FTE	Base %	\$/FTE		
Inspector		25.77	100.0	158,283	4,078,953	4,078,953
Staff Sergeant-Detachment Commander		11.41	100.0	141,618	1,615,861	1,615,861
Staff Sergeant		32.05	100.0	132,190	4,236,690	4,236,690
Sergeant		222.66	56.2	118,511	26,387,659	14,823,356
Constables		1,809.53	56.2	100,708	182,234,147	102,367,668
Part Time Constables		5.44	56.2	80,183	436,196	245,360
Total Uniform Salaries		2,106.86			218,989,506	127,367,887
Statutory Holiday Payout				3,564	7,489,461	4,315,256
Shift Premium				685	1,395,777	784,065
Benefits (Full-time 28.09%, Insp. 27.06%, Part-time 14.73%)					61,413,863	35,702,846
Total Uniform Salaries & Benefits				137,308	289,288,606	168,170,054
Detachment Civilian Members	(Note 1)					
Court Officer		15.57	56.2	65,648	1,022,139	574,420
Detachment Administrative Clerk		173.14	56.2	64,693	11,200,946	6,292,041
Detachment Clerk Typist		0.44	56.2	57,362	25,239	14,341
Detachment Operations Clerk		1.67	56.2	63,077	105,339	59,292
Crime Stopper		0.81	56.2	60,159	48,729	27,673
Total Detachment Civilian Salaries		191.63			12,402,392	6,967,767
Benefits (26.10% of Salaries)					3,237,024	1,818,587
Total Detachment Civilian Salaries & Benefits				81,613	15,639,416	8,786,354
Support Staff (Salaries and Benefits)	(Note 2)					
Communication Operators				6,564	13,829,429	7,967,711
Prisoner Guards				1,715	3,613,265	2,081,753
Operational Support				4,642	9,780,044	5,634,692
RHQ Municipal Support				2,477	5,218,692	3,006,706
Telephone Support				122	257,037	148,090
Office Automation Support				644	1,356,818	781,719
Mobile and Portable Radio Support				188	397,112	228,779
Total Support Staff Salaries and Benefits					34,452,397	19,849,450
Total Salaries & Benefits					339,380,420	196,805,859
Other Direct Operating Expenses	(Note 2)					
Communication Center				182	383,449	220,921
Operational Support				811	1,708,663	984,432
RHQ Municipal Support				232	488,792	281,613
Telephone				1,373	2,892,719	1,666,616
Mobile Radio Equipment Maintenance				163	344,305	198,356
Office Automation - Uniform				2,140	4,508,680	2,597,639
Office Automation - Civilian				1,685	322,897	181,407
Vehicle Usage				8,351	17,594,388	10,136,861
Detachment Supplies				539	1,135,598	654,265
Uniform & Equipment				1,944	4,106,311	2,365,673
Uniform & Equipment Court officer				929	14,465	8,129
Total Other Direct Operating Expenses					33,500,265	19,295,913
Total 2019 Municipal Base Services and Calls for Service Cost					372,880,686	216,101,772
Total OPP-Policed Municipal Properties						1,140,112
Base Services Cost per Property						\$189.54

OPP 2019 Estimated Base Services and Calls For Service Cost Summary For the Period January 1 to December 31, 2019

Notes

Total Base Services and Call for Service Costs are based on the cost of salary, benefit, support and other direct operating expenses for staff providing policing services to municipalities. Staff is measured in full-time equivalent (FTE) units and the costs per FTE are described in the notes below.

- 1) Full-time equivalents (FTEs) are based on average municipal detachment staffing levels for the years 2014 through 2017. Contract enhancements, court security, prisoner transportation and cleaning staff are excluded.

The equivalent of 89.03 FTEs with a cost of \$14,357,486 has been excluded from municipal costs to reflect the average municipal detachment FTEs required for provincially-mandated responsibilities eligible for Provincial Service Usage credit.

Salary rates are based on weighted average rates for municipal detachment staffing by rank, level and classification. The 2019 salaries were estimated based on the 2018 rates set in the 2015 to 2018 OPPA Uniform and Civilian Collective Agreements with an estimated overall general salary rate increase of 1.9% for 2019 applied. The benefit rates are based on the most recent rates set by the Treasury Board Secretariat, (2018-19). Salary rates, Statutory Holiday Payouts, Shift Premiums, and Benefit costs are subject to reconciliation.

FTEs have been apportioned between Base Services and Calls for Service costs based on the current ratio, 56.2% Base Services : 43.8% Calls for Service.

- 2) Support Staff Costs and Other Direct Operating Expenses for uniform FTEs are calculated on a per FTE basis as per rates set in the 2018 Municipal Policing Cost-Recovery Formula.

OPP 2019 Calls for Service Billing Summary

South Huron M

Estimated cost for the period January 1 to December 31, 2019

Calls for Service Billing Workgroups	Calls for Service Count					2019 Average Time Standard	Total Weighted Time	% of Total Provincial Weighted Time	2019 Estimated Calls for Service Cost
	2014	2015	2016	2017	Four Year Average				
	A					B	C = A * B		
	(Note 1)							(Note 2)	(Note 3)
Drug Possession	23	31	17	20	23	6.4	146	0.0091%	14,227
Drugs	7	14	5	1	7	37.0	250	0.0156%	24,403
Operational	758	726	899	887	818	3.6	2,943	0.1834%	287,560
Operational 2	465	456	350	380	413	1.3	537	0.0334%	52,429
Other Criminal Code Violations	74	57	82	89	76	7.9	596	0.0372%	58,279
Property Crime Violations	296	328	319	373	329	6.8	2,237	0.1394%	218,597
Statutes & Acts	99	96	108	114	104	3.3	344	0.0214%	33,615
Traffic	169	116	129	117	133	3.4	451	0.0281%	44,101
Violent Criminal Code	107	87	118	101	103	15.9	1,642	0.1023%	160,408
Total	1,998	1,911	2,027	2,082	2,005		9,146	0.5700%	893,619
Provincial Totals	(Note 4)	381,258	363,779	364,615	368,194	369,462	1,604,533	100.0%	156,778,914

Notes to Calls for Service Billing Summary

- 1) Showing no decimal places, for billing purposes the exact calculated numbers have been used
- 2) Showing 4 decimal places here, for calculations 9 decimal places have been used
- 3) Costs rounded to 0 decimals
- 4) Provincial Totals exclude data for both municipal dissolutions and amalgamations

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OPP 2019 Calls for Service Details
South Huron M
For the Calendar Years 2014 to 2017

Calls for Service Billing Workgroups	Calls for Service Count				Four Year Average
	2014	2015	2016	2017	
Grand Total	1,998	1,911	2,027	2,082	2,004.50
Drug Possession	23	31	17	20	22.75
Drug Related Occurrence	8	8	8	7	7.75
Possession - Cannabis	11	13	4	5	8.25
Possession - Cocaine	0	1	0	0	0.25
Possession - Methamphetamine (Crystal Meth)	3	1	1	2	1.75
Possession - Other Controlled Drugs and Substances Act	1	8	4	6	4.75
Drugs	7	14	5	1	6.75
Drug Operation - Residential Grow Indoor	1	1	1	0	0.75
Drug Operation - Residential Grow Outdoor	0	1	0	0	0.25
Production - Cannabis (Marihuana) (Cultivation)	0	3	3	0	1.50
Production - Other Controlled Drugs & Substances	0	2	0	0	0.50
Trafficking - Cannabis	3	3	1	0	1.75
Trafficking - Cocaine	1	0	0	0	0.25
Trafficking - Methamphetamine (Crystal Meth)	0	0	0	1	0.25
Trafficking - Other Controlled Drugs and Substances Act	2	4	0	0	1.50
Operational	758	726	899	887	817.50
Accident - non-MVC - Commercial	1	1	1	1	1.00
Accident - non-MVC - Construction Site	0	1	0	0	0.25
Accident - non-MVC - Industrial	0	0	0	2	0.50
Accident - Non-MVC - Others	1	0	0	0	0.25
Accident - non-MVC - Public Property	1	1	0	0	0.50
Accident - non-MVC - Residential	0	2	0	0	0.50
Alarm - Holdup	1	0	0	0	0.25
Alarm - Master Code	10	3	4	3	5.00
Alarm - Others	4	9	2	14	7.25
Animal - Bear Complaint	0	0	3	0	0.75
Animal - Dog Owners Liability Act	7	4	6	0	4.25
Animal - Left in Vehicle	0	2	2	3	1.75
Animal - Master Code	8	3	1	2	3.50
Animal - Other	12	19	13	15	14.75
Animal Bite	3	1	1	3	2.00
Animal Injured	7	5	3	5	5.00
Animal Rabid	0	3	5	1	2.25
Animal Stray	7	9	7	4	6.75
Assist Fire Department	4	3	6	5	4.50
Assist Public	94	88	203	214	149.75
By-Law - Master Code	2	0	2	0	1.00
Child Neglect	1	0	0	0	0.25
Compassionate Message	1	1	0	3	1.25
Distressed / Overdue Motorist	0	2	0	0	0.50
Dogs By-Law	0	1	0	0	0.25
Domestic Disturbance	54	72	56	58	60.00
False Fire Alarm - Building	1	2	1	1	1.25
Family Dispute	42	47	56	57	50.50
Fire - Building	4	1	1	5	2.75

OPP 2019 Calls for Service Details
South Huron M
For the Calendar Years 2014 to 2017

Calls for Service Billing Workgroups	Calls for Service Count				Four Year Average
	2014	2015	2016	2017	
Fire - Master Code	1	0	0	0	0.25
Fire - Other	0	1	4	3	2.00
Fire - Vehicle	2	1	2	6	2.75
Firearms (Discharge) By-Law	0	0	0	1	0.25
Found - Bicycles	13	16	15	19	15.75
Found - Computer, parts & accessories	0	1	0	0	0.25
Found - Household Property	4	2	7	2	3.75
Found - Jewellery	1	0	0	0	0.25
Found - License Plate	1	2	1	1	1.25
Found - Machinery & Tools	1	0	1	2	1.00
Found - Office Machines & Equipment	0	1	0	1	0.50
Found - Others	13	5	11	11	10.00
Found - Personal Accessories	11	18	12	20	15.25
Found - Radio, TV, Sound-Reprod. Equip.	1	1	2	0	1.00
Found - Sporting Goods, Hobby Equip.	0	0	0	1	0.25
Found - Vehicle Accessories	0	0	1	0	0.25
Found Property - Master Code	15	22	13	14	16.00
Insecure Condition - Building	7	8	1	4	5.00
Insecure Condition - Master Code	0	0	0	1	0.25
Insecure Condition - Others	0	0	1	0	0.25
Lost - Accessible Parking Permit	5	1	1	0	1.75
Lost - Computer, parts & accessories	0	1	1	0	0.50
Lost - Household Property	1	1	0	0	0.50
Lost - Jewellery	1	1	0	0	0.50
Lost - License Plate	37	6	7	3	13.25
Lost - Others	9	2	5	1	4.25
Lost - Personal Accessories	4	8	8	11	7.75
Lost - Radio, TV, Sound-Reprod. Equip.	2	0	2	0	1.00
Lost - Vehicle Accessories	0	1	1	1	0.75
Lost Property - Master Code	14	4	8	6	8.00
Medical Assistance - Defibrillator	0	0	1	0	0.25
Medical Assistance - Master Code	2	2	1	2	1.75
Medical Assistance - Other	5	3	7	3	4.50
Missing Person 12 & older	14	3	7	7	7.75
Missing Person Located 12 & older	19	17	19	1	14.00
Missing Person Located Under 12	3	0	1	1	1.25
Missing Person under 12	1	0	1	2	1.00
Neighbour Dispute	36	44	65	53	49.50
Noise By-Law	3	2	1	1	1.75
Noise Complaint - Animal	2	9	0	3	3.50
Noise Complaint - Business	1	0	1	0	0.50
Noise Complaint - Master Code	3	2	2	1	2.00
Noise Complaint - Others	3	6	8	7	6.00
Noise Complaint - Residence	33	40	37	33	35.75
Noise Complaint - Vehicle	2	1	1	2	1.50
Other Municipal By-Laws	10	7	14	9	10.00

OPP 2019 Calls for Service Details
South Huron M
For the Calendar Years 2014 to 2017

Calls for Service Billing Workgroups	Calls for Service Count				Four Year Average
	2014	2015	2016	2017	
Phone - Master Code	1	2	0	1	1.00
Phone - Nuisance - No Charges Laid	17	20	14	7	14.50
Phone - Obscene - No Charges Laid	1	0	0	0	0.25
Phone - Other - No Charges Laid	5	5	5	4	4.75
Phone - Text-related incident	1	0	0	1	0.50
Phone - Threatening - No Charges Laid	1	0	2	1	1.00
Protest - Demonstration	1	0	1	0	0.50
Sudden Death - Master Code	1	0	0	0	0.25
Sudden Death - Natural Causes	14	12	16	10	13.00
Sudden Death - Others	0	2	2	2	1.50
Sudden Death - Suicide	0	4	2	2	2.00
Suspicious Package	0	0	0	1	0.25
Suspicious Person	69	79	114	145	101.75
Suspicious vehicle	37	33	36	44	37.50
Traffic By-Law	5	3	2	3	3.25
Trouble with Youth	33	32	31	16	28.00
Unwanted Persons	16	9	21	13	14.75
Vehicle Recovered - All Terrain Vehicles	1	0	0	2	0.75
Vehicle Recovered - Automobile	7	4	8	3	5.50
Vehicle Recovered - Farm Vehicles	0	0	1	1	0.50
Vehicle Recovered - Motorcycles	0	1	0	0	0.25
Vehicle Recovered - Other	0	0	0	1	0.25
Vehicle Recovered - Trucks	3	1	1	1	1.50
Operational 2	465	456	350	380	412.75
911 call - Dropped Cell	1	3	9	17	7.50
911 call / 911 hang up	248	230	142	138	189.50
911 hang up - Pocket Dial	23	15	12	27	19.25
False Alarm - Accidental Trip	64	74	52	48	59.50
False Alarm - Cancelled	26	27	33	38	31.00
False Alarm - Malfunction	58	71	56	54	59.75
False Alarm - Others	17	14	25	38	23.50
False Holdup Alarm - Accidental Trip	3	4	0	0	1.75
False Holdup Alarm - Malfunction	3	0	1	1	1.25
Keep the Peace	22	18	20	19	19.75
Other Criminal Code Violations	74	57	82	89	75.50
Animals - Cruelty	1	1	0	0	0.50
Bail Violations - Appearance Notice	1	2	2	4	2.25
Bail Violations - Disobey Summons	0	0	1	1	0.50
Bail Violations - Fail To Appear	1	1	2	0	1.00
Bail Violations - Fail To Comply	28	11	15	17	17.75
Bail Violations - Master Code	1	1	1	0	0.75
Bail Violations - Others	0	1	4	0	1.25
Bail Violations - Promise To Appear	0	0	1	0	0.25
Bail Violations - Recognizance	5	7	3	1	4.00
Breach of Probation	14	13	31	28	21.50
Child Pornography - Making or distributing	0	0	1	2	0.75

OPP 2019 Calls for Service Details
South Huron M
For the Calendar Years 2014 to 2017

Calls for Service Billing Workgroups	Calls for Service Count				Four Year Average
	2014	2015	2016	2017	
Child Pornography - Master Code	0	2	0	1	0.75
Child Pornography - Possess child pornography	1	0	0	0	0.25
Common nuisance	0	1	0	1	0.50
Counterfeit Money - Others	0	0	0	5	1.25
Disobey court order / Misconduct executing process	2	0	0	0	0.50
Disturb the Peace	5	5	8	6	6.00
Fail to Attend Court	2	2	4	3	2.75
Indecent acts - exposure to person under 14	0	0	0	1	0.25
Indecent acts - Master Code	1	1	1	1	1.00
Indecent acts - Other	1	0	0	0	0.25
Libel - Defamatory	0	0	0	1	0.25
Obstruct Justice / Fabricate Evidence	0	0	1	0	0.25
Obstruct Public Peace Officer	1	0	2	1	1.00
Offensive Weapons - Careless use of firearms	0	1	0	1	0.50
Offensive Weapons - Carry concealed	0	1	0	0	0.25
Offensive Weapons - Explosives	0	0	0	1	0.25
Offensive Weapons - In Vehicle	0	1	0	0	0.25
Offensive Weapons - Other Offensive Weapons	1	1	0	1	0.75
Offensive Weapons - Other Weapons Offences	2	0	0	0	0.50
Offensive Weapons - Possession of Weapons	0	3	2	1	1.50
Offensive Weapons - Prohibited	1	0	0	1	0.50
Possess Firearm while prohibited	0	1	0	0	0.25
Possession Of Counterfeit Money	1	0	0	1	0.50
Public Mischief - mislead peace officer	2	1	0	1	1.00
Public Morals	1	0	0	2	0.75
Trespass at Night	0	0	2	5	1.75
Utter Threats to damage property	1	0	0	0	0.25
Utter Threats to Property / Animals	1	0	1	0	0.50
Uttering Counterfeit Money	0	0	0	2	0.50
Property Crime Violations	296	328	319	373	329.00
Arson - Building	2	0	2	0	1.00
Arson - Others	0	1	0	0	0.25
Break & Enter	41	50	53	60	51.00
Break & Enter - Firearms	0	0	0	3	0.75
False Pretence - Other	0	0	1	0	0.25
Fraud - Account closed	1	1	1	0	0.75
Fraud - False Pretence Over \$5,000	0	0	1	0	0.25
Fraud - False Pretence Under \$5,000	1	3	1	1	1.50
Fraud - Forgery & Uttering	1	2	1	5	2.25
Fraud - Fraud through mails	3	4	3	0	2.50
Fraud - Master Code	3	4	1	2	2.50
Fraud - Money/property/security Over \$5,000	1	0	2	7	2.50
Fraud - Money/property/security Under \$5,000	7	8	8	12	8.75
Fraud - Other	18	14	12	17	15.25
Fraud - Steal/Forge/Poss./Use Credit Card	5	3	7	2	4.25
Fraud - Welfare benefits	0	0	1	0	0.25

OPP 2019 Calls for Service Details
South Huron M
For the Calendar Years 2014 to 2017

Calls for Service Billing Workgroups	Calls for Service Count				Four Year Average
	2014	2015	2016	2017	
Identity Fraud	0	0	2	1	0.75
Interfere with lawful use, enjoyment of property	3	0	3	3	2.25
Mischief - Master Code	58	57	47	81	60.75
Mischief Graffiti - Non-Gang Related	0	1	0	2	0.75
Personation with Intent (fraud)	1	4	1	1	1.75
Possession of Stolen Goods over \$5,000	0	0	1	3	1.00
Possession of Stolen Goods under \$5,000	5	5	4	4	4.50
Property Damage	5	6	1	2	3.50
Theft from Motor Vehicles Over \$5,000	0	1	1	0	0.50
Theft from Motor Vehicles Under \$5,000	43	48	41	59	47.75
Theft of - All Terrain Vehicles	1	0	4	3	2.00
Theft of - Automobile	7	3	9	5	6.00
Theft of - Construction Vehicles	0	0	0	1	0.25
Theft of - Farm Vehicles	0	0	0	1	0.25
Theft of - Motorcycles	0	0	4	3	1.75
Theft of - Other Motor Vehicles	0	0	1	0	0.25
Theft of - Snow Vehicles	0	0	1	0	0.25
Theft of - Trucks	0	3	5	6	3.50
Theft of Motor Vehicle	4	7	4	2	4.25
Theft Over \$5,000 - Construction Site	0	1	0	1	0.50
Theft Over \$5,000 - Boat (Vessel)	1	0	0	0	0.25
Theft Over \$5,000 - Farm Equipment	0	0	0	1	0.25
Theft Over \$5,000 - Mail	0	0	2	2	1.00
Theft Over \$5,000 - Master Code	0	1	0	0	0.25
Theft Over \$5,000 - Other Theft	0	2	1	4	1.75
Theft Over \$5,000 - Persons	1	0	0	0	0.25
Theft Over \$5,000 - Trailers	1	0	1	1	0.75
Theft Over \$5,000 Shoplifting	0	2	0	0	0.50
Theft Under \$5,000 - Bicycles	14	23	24	13	18.50
Theft Under \$5,000 - Boat (Vessel)	0	0	1	0	0.25
Theft Under \$5,000 - Building	2	3	2	4	2.75
Theft Under \$5,000 - Construction Site	2	6	0	1	2.25
Theft Under \$5,000 - Farm Equipment	0	0	1	1	0.50
Theft Under \$5,000 - Gasoline Drive-off	1	2	2	7	3.00
Theft Under \$5,000 - Master Code	6	8	7	6	6.75
Theft Under \$5,000 - Other Theft	43	36	46	32	39.25
Theft Under \$5,000 - Persons	3	5	3	1	3.00
Theft Under \$5,000 - Trailers	0	3	0	0	0.75
Theft Under \$5,000 Shoplifting	11	11	5	12	9.75
Unlawful in a dwelling house	1	0	1	1	0.75
Statutes & Acts	99	96	108	114	104.25
Children's Law Reform Act - Custody order	2	0	0	0	0.50
Custody Dispute	5	0	1	1	1.75
Landlord / Tenant	16	20	18	16	17.50
Mental Health Act	24	23	31	28	26.50
Mental Health Act - Attempt Suicide	8	8	8	11	8.75

OPP 2019 Calls for Service Details
South Huron M
For the Calendar Years 2014 to 2017

Calls for Service Billing Workgroups	Calls for Service Count				Four Year Average
	2014	2015	2016	2017	
Mental Health Act - No contact with Police	0	0	3	6	2.25
Mental Health Act - Placed on Form	0	0	0	9	2.25
Mental Health Act - Threat of Suicide	13	15	14	16	14.50
Mental Health Act - Voluntary Transport	1	5	3	5	3.50
Trespass To Property Act	29	22	30	22	25.75
Youth Criminal Justice Act (YCJA)	1	3	0	0	1.00
Traffic	169	116	129	117	132.75
MVC - Fatal (Motor Vehicle Collision)	1	3	0	1	1.25
MVC - Others (Motor Vehicle Collision)	0	1	3	1	1.25
MVC - Pers. Inj. Failed to Remain (Motor Vehicle Collision)	1	0	1	0	0.50
MVC - Personal Injury (Motor Vehicle Collision)	18	9	8	5	10.00
MVC - Prop. Dam. Failed to Remain (Motor Vehicle Collision)	17	14	13	13	14.25
MVC - Prop. Dam. Non Reportable	45	30	49	49	43.25
MVC - Prop. Dam. Reportable (Motor Vehicle Collision)	87	59	53	48	61.75
MVC (Motor Vehicle Collision) - Master Code	0	0	2	0	0.50
Violent Criminal Code	107	87	118	101	103.25
Abandon Child	0	1	0	0	0.25
Aggravated Assault - Level 3	0	0	2	0	0.50
Aggravated Sexual Assault	0	1	0	0	0.25
Assault - Level 1	41	25	28	35	32.25
Assault Peace Officer	4	0	0	0	1.00
Assault With Weapon or Causing Bodily Harm - Level 2	11	9	11	11	10.50
Criminal Harassment	8	16	15	19	14.50
Criminal Harassment - Offender Unknown	1	0	0	0	0.25
Extortion	0	0	0	1	0.25
Forcible confinement	3	3	4	0	2.50
Indecent / Harassing Communications	1	1	0	1	0.75
Pointing a Firearm	0	0	1	0	0.25
Robbery - Master Code	0	0	1	0	0.25
Robbery - Other	1	0	1	0	0.50
Sexual Assault	16	12	16	12	14.00
Sexual Assault With a Weapon	0	0	1	0	0.25
Sexual Interference	0	0	0	1	0.25
Utter Threats - Master Code	1	3	6	0	2.50
Utter Threats to Person	20	16	32	20	22.00
Utter Threats to Person - Government Employee	0	0	0	1	0.25

OPP 2017 Reconciled Year-End Summary**South Huron M**

Reconciled cost for the period January 1 to December 31, 2017

			Cost per Property \$	Total Cost \$
Base Service	Property Counts			
	Household	4,712		
	Commercial and Industrial	458		
	Total Properties	<u>5,170</u>	190.38	984,265
Calls for Service				
	Total all municipalities	146,777,213		
	Municipal portion	0.5306%	150.65	778,851
Overtime			9.71	50,183
Prisoner Transportation	(per property cost)		2.16	11,167
Accommodation/Cleaning Services	(per property cost)		<u>4.85</u>	<u>25,075</u>
Total 2017 Reconciled Cost			<u>357.74</u>	<u>1,849,540</u>
Year Over Year Variance (reconciled cost for the year is not subject to phase-in adjustment)				
2016 Reconciled Cost per Property			355.28	
2017 Reconciled Cost per Property (see above)			<u>357.74</u>	
Cost per Property Variance	(Increase)		2.46	
2017 Billed Amount				<u>(1,867,920)</u>
2017 Year-End-Adjustment				<u>(18,380)</u>

Note

The Year-End adjustment above will be included as an adjustment on the 2019 Billing Statement.
This amount will be incorporated into the monthly invoice amount for 2019.

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ONTARIO ENERGY BOARD NOTICE TO CUSTOMERS OF UNION GAS LIMITED

Union Gas Limited has applied to introduce a new firm transportation service under Rate M17 for gas distributors and to modify the applicability of existing bundled delivery service and semi-unbundled storage and transportation service under Rate M9 and Rate T3 rate schedules respectively.

Learn more. Have your say.

Union Gas Limited has applied to the Ontario Energy Board to introduce firm transportation services for gas distributors that will have competitive storage and gas supply options under a new M17 rate class effective January 1, 2019. Union Gas Limited has proposed the new M17 service in response to a request by EPCOR Southern Bruce Gas Inc. for gas transportation services to the South Bruce expansion area.

Union Gas Limited is also seeking approval to limit the applicability of its Rate M9 and Rate T3 rate schedules to existing gas distributors.

THE ONTARIO ENERGY BOARD IS HOLDING A PUBLIC HEARING

The Ontario Energy Board (OEB) will hold a public hearing to consider the application filed by Union Gas. We will question Union Gas on the case. We will also hear questions and arguments from individual customers and from groups that represent the customers of Union Gas. At the end of this hearing, the OEB will decide whether the proposed new transportation services and changes to existing rate schedules will be approved.

The OEB is an independent and impartial public agency. We make decisions that serve the public interest. Our goal is to promote a financially viable and efficient energy sector that provides you with reliable energy services at a reasonable cost.

BE INFORMED AND HAVE YOUR SAY

You have the right to information regarding this application and to be involved in the process.

- You can review the application filed by Union Gas on the OEB's website now.
- You can file a letter with your comments, which will be considered during the hearing.
- You can become an active participant (called an intervenor). Apply by **October 1, 2018** or the hearing will go ahead without you and you will not receive any further notice of the proceeding.
- At the end of the process, you can review the OEB's decision and its reasons on our website.

LEARN MORE

Our file number for this case is **EB-2018-0244**. To learn more about this hearing, find instructions on how to file letters or become an intervenor, or to access any document related to this case, please enter the file number **EB-2018-0244** on the OEB website: www.oeb.ca/participate. You can also phone our Public Information Office at 1-877-632-2727 with any questions.

ORAL VS. WRITTEN HEARINGS

There are two types of OEB hearings – oral and written. The OEB will determine at a later date whether to proceed by way of a written or oral hearing. If you think an oral hearing is needed, you can write to the OEB to explain why by **October 1, 2018**.

PRIVACY

If you write a letter of comment, your name and the content of your letter will be put on the public record and the OEB website. However, your personal telephone number, home address and e-mail address will be removed. If you are a business, all your information will remain public. If you apply to become an intervenor, all information will be public.

This rate hearing will be held under section 36 of the Ontario Energy Board Act, S.O. 1998 c.15 (Schedule B).



**Board of Directors Meeting Highlights
Held on September 20, 2018 at 9:00 AM
at the MRF Board Room**



RPRA sets 2019 Blue Box Steward Funding Obligation

The Resource Productivity and Recovery Authority (RPRA) has set the 2019 Blue Box Steward Funding Obligation at \$126.4 million. The Blue Box Steward Funding Obligation is the total amount that stewards must pay to municipalities for the Blue Box Program.

Despite strong, long-standing documented protests from municipal governments, RPRA has again used a theoretical model of municipal costs as a key input into the calculation of the Obligation. This model discounts verified municipal costs for 'inefficiency' under the "Cost Containment" heading. This deduction from reported verified costs from the datacall has increased to \$23.8M from \$15.8M last year. We have continued to advocate for payment to be calculated as per the decision in the 2014 Arbitration between AMO/City of Toronto and Stewardship Ontario where municipalities were paid 50% of our net verified cost from the Datacall (i.e. actual municipal costs). RPRA (formerly WDO) used the Arbitrator's method in 2015 to determine the Steward Obligation. If the Steward Obligation had been calculated this year using the Arbitrator's method it would have been \$131.2M – a difference of \$4.8M.

Attached below is a summary of the Steward Obligation calculation from RPRA:

2019 Steward Obligation (2017 Data Year)	
Reported Gross Cost	\$355,134,163
Plus 55% of InKind Linage	\$2,156,414
Less Non-Obligated	-\$221,770
Less Cost Containment	-\$23,800,135
Total Gross Cost	\$333,268,672
Less 3 Year Average Revenue	-\$95,697,012
Plus 100% of Prior Year Adjustments	\$865,415
Total Net Costs	\$238,437,075
50% of Net Costs	\$119,218,537
Plus Steward Cost Containment	\$7,153,112
2019 Steward Obligation	\$126,371,650

AMO, Toronto, RPWCO and MWA will be reviewing RPRA's decision on the Obligation to determine if a formal dispute process should be invoked.

Blue Box Program Update

Transitioning the Blue Box program to full producer responsibility remains a key priority for municipal governments.

As you know, Stewardship Ontario did not submit the amended Blue Box Program Plan to then Minister of the Environment and Climate Change. In light of the concerns raised with the Plan by a broad range of stakeholders, Stewardship Ontario instead requested further time to re-work the Plan.

We have met with Stewardship Ontario several times to discuss some of the operational items that needed to be resolved. An area of focus has been terms and conditions for collection contract standards.

Additionally, the Municipal Resource Recovery and Research Collaborative (M3RC) has continued to work on a regulatory framework for paper products and packaging under the Resource Recovery and Circular Economy Act, 2016 (RRCEA). A draft framework will be made available early this fall for feedback.

WEEE Update

As a reminder in February 2018, then Minister of the Environment and Climate Change issued direction to Ontario Electronic Stewardship to wind-up the Waste Electrical and Electronic Equipment (WEEE) Program on June 30, 2020. We are in the process of drafting comments on the new regulation for municipal feedback. More information will be provided shortly.

It is our understanding that some producers may be advocating that the government rescind this wind-up letter as they see no concerns with the current program. Municipalities remain committed to ensuring all of these programs are transitioned to the RRCEA as soon as possible to ensure better oversight, increase efficiencies and improve outcomes.

Used Tires

The Used Tire Program continues on-target to wind-up on December 31, 2018 with the new regulation coming into force on January 1, 2019. The RPRA Registry is now operational and PROs and producers have begun to register. Here are the timelines for registration:

Activity	Deadline
Tire producers must register with the Authority and pay the required registry fee.	August 31, 2018
PROs are required to register and pay the required registry fee within 30 days of being retained by a producer. PROs are encouraged to register in advance of producers so that a producer can identify its PRO when the producer registers.	
Service providers, including tire collectors, haulers, retreaders and processors, must register with the Authority. Service providers will not pay registry fees in 2018.	October 31, 2018
Producers must report: <ul style="list-style-type: none"> • The collection sites in their system • The tire haulers, retreaders and processors in their tire collection or management system 	November 15, 2018

AMO will be establishing a webinar in September to allow the various PROs to provide municipalities with information on what to expect under the new framework.

MHSW Update

As a reminder, in April 2018, then Minister of the Environment and Climate Change issued direction to Stewardship Ontario to wind-up the Municipal Hazardous or Special Waste Program (MHSW) on December 31, 2020. AMO is in the process of drafting comments on the new regulation for municipal feedback. More information will be provided shortly.

In the meantime, we encourage staff from rural and smaller municipalities to provide feedback to the Local Authority Services (LAS) Rural Household Hazardous Waste Survey that went live last week. Responses from this survey (<https://www.surveymonkey.com/r/CXZQ66F>) will assist them in building the research for their feasibility study. For more information, please contact Nicholas Ruder at nruder@amo.on.ca.

Demand the Right

As part of the last legislative session, a private member's bill was put forward titled Bill 16, Respecting Municipal Authority Over Landfilling Sites Act, 2018. Essentially the legislation provides municipalities with the ability to reject proposed landfills' expansions or new landfill developments within their boundaries. Over the last few months, it is our understanding that ~80 resolutions have been approved by municipalities supporting this ability and each of the parties was asked their position during the election (<http://www.ingersolltimes.com/2018/05/29/campaign-for-municipal-say-in-landfill-approval-is-taking-hold-and-has-support-of-pc-leader>).

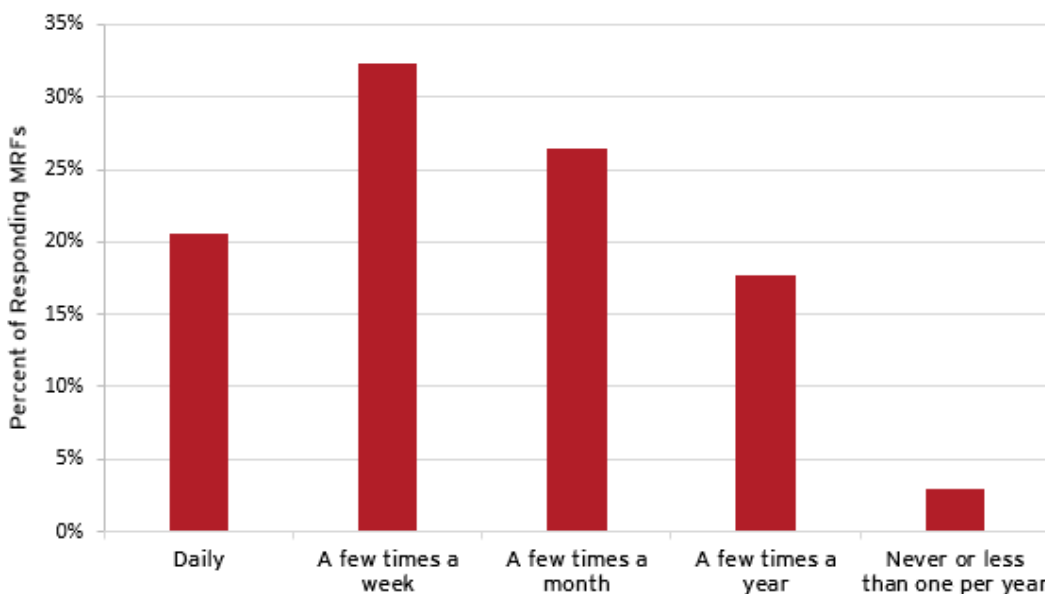
We are looking at how this item is aligning with other municipal interests. It is not clear how the new government might address this issue but we will keep you updated as we have discussions with them.

EREF Study Suggest That Needles Are Regularly Observed At Mrfs.

Over half of survey respondents (53%) reported seeing needles daily or a few times a week.

Reported
Frequency of
Needle
Observations at
MRFs

Needlestick
injuries are a
serious risk to
waste industry
workers,
especially in
MRFs where
sorting
recyclables on
picking lines
and similar
activities can put
employees in
contact with
sharps and, as a



result, blood borne pathogens. Historically, exposure to these materials and the rate of incidences associated with them at MRFs has not been well documented, though it has been suggested anecdotally in the industry that the rate has increased in recent years.

The Environmental Research & Education Foundation (EREF) and the Solid Waste Association of North America (SWANA) conducted a joint research project to determine and address the issue of needlestick injuries at Material Recovery Facilities (MRFs) in the United States and Canada.

CIF Explores Curbside Contamination Reduction in Barrie

Curbside contamination consists of unsolicited materials (e. g., a running shoe in the Blue Box) and solicited materials that are too contaminated to process (e. g., newspaper soaked in motor oil). Contamination in single-stream and two-stream collection systems creates processing challenges at the MRF and increases disposal costs, resulting in higher program costs. By contrast, minimizing contamination in loads delivered to a MRF helps reduce processing costs and improves the marketability and revenue for sorted recyclables.

The study undertaken in the City of Barrie included the following steps.

1. Material was collected in a routine manner on a typical two-stream blue box route with the regular driver (Normal Sort).
2. Material collected was sorted and weighed to determine contamination present in fibre and container streams during normal operations. On average the collection vehicle was stopped for 19 seconds at each home.
3. At a later date on the same route and with the same driver, the driver applied additional effort to leave contamination at the curb. On average, stop time increased from 19 seconds to 52 seconds (Additional Sort).
4. Material collected was again sorted and weighed to determine contamination present following the additional sorting effort at the curb. Driver performance was monitored to ensure diligent sorting efforts.

Study findings are summarized below:

Findings	Normal Sort	Additional Sort
Stop time (wheels stopped)	19 seconds	52 seconds
Total contamination set-out ¹	13.7 % (by resident)	10.8% (by resident)
Contamination after sort at curbside	9.3 % (as received at MRF)	5.2 % (as received at MRF)
Contamination removed by driver (%)	4.40%	5.60%

¹If the driver had collected everything

While it is acknowledged that material composition can vary significantly from week to week even on the same route, it is clear that significantly increasing the time available to remove contamination has only a minor overall impact on reducing the level of contamination present at the curb. Removal of contamination from the fibre stream was far more effective than from the container stream. This finding is reasonable given the lightweight and complex packaging used for food and beverages.

Study findings demonstrate that a gain of only 1.2% (5.6% – 4.4%) was achieved by more than doubling the time spent sorting at each stop. The additional time spent sorting would significantly increase curbside collection costs.

It is concluded that additional curbside sorting is not a cost-effective strategy to reduce contamination and residue levels at MRFs.

The study findings suggest a standardized program coupled with an appropriate level of curbside due diligence and investment in more robust sortation systems in MRFs may ultimately prove to be the most cost effective strategy rather than trying to achieve artificially low curbside contamination levels. As municipalities and contractors work to adjust to new market expectations, perhaps this is the time to start thinking about what our expectations are of drivers at the curb within the challenging time constraints they currently endeavour to operate under.

Industry Stakeholders Reject Idea of Dual Stream Shift

MRF Summit attendees cited concerns about major system changes, including confusing residents and disrupting existing collection systems.

During a MRF Summit at WASTECON 2018 last month, more than 170 industry stakeholders gathered to gauge whether there was interest in moving away from single stream recycling.

WASTECON is the Solid Waste Association of North America's largest event. This year's conference was held in Nashville.



During the summit discussions, attendees cited concerns about major system changes, including confusing residents and disrupting existing collection systems. According to a Resource Recycling report, the majority of single stream programs use automated trucks, whereas dual stream programs largely use non-automated vehicles. And the automated collection factor brought up some safety implications.

Debates pitting single-stream versus dual-stream recycling have gained steam in recent months. But in a recent gathering of key stakeholders, the consensus was to stick with single-stream systems.

The forum was one of several group discussions at the MRF Summit hosted at WasteCon 2018 last month. Together, breakout groups made up a session titled “Facing the Music – Are We All Listening to Different Tunes?” After the three concurrent discussion sessions, members of each reported on their results to the wider audience.

Facilitated by Nat Egosi of RRT Design & Construction and Michael Timpane of Resource Recycling Systems (RRS), one breakout group sought to gauge whether there was widespread interest in moving away from single-stream recycling. The topic has received more attention in recent months, including in multiple Resource Recycling articles, as communities try to weather the downturn in recycling markets.

Their conclusion? The group responded with “a unanimous no,”

Vietnam Declines To Issue Permits

Vietnam has seen a major increase in plastics imports this year, but last month, the government there announced it would no longer grant new licenses for waste material imports, according to state media.

The move came shortly after a press conference held by customs officials in the country during which they described backlogs at ports and growing volumes of stalled containers of recyclables.

The country's scrap plastics industry is reeling from the import restrictions. A handful of media reports covered a recent meeting of the Vietnam Plastic Association, where industry representatives expressed major concerns over the recent reduction in import volumes.

Company officials described the shortcomings in domestic collection, which make domestically sourced material harder to use. They also noted quality requirements have increased and that imports have not been able to meet the new demands.

According to notes from another recent Vietnamese government press conference, officials are “also expected to suggest a reduction in the volume of waste imports and a waste import ban in the future.”

Thai Scrap Ban Permanent

Two months after Thailand enacted an immediate prohibition on scrap plastic and e-scrap imports, the country's government has released its longer-term plans.

Thailand has experienced a massive increase in scrap material imports this year, particularly on the plastics side, after many exporters in other countries lost the ability to sell that material into China. When the Thai government took action to stem the influx in June, it also stated that the country would be looking at a long-term policy to permanently ban e-scrap and scrap plastics from import.

Now, that policy appears to be taking shape. The Nation, a Thai news outlet, recently reported on a meeting between a handful of regulatory agencies, at which the long-term ban was discussed. According to the report, the agencies passed a resolution that will completely ban scrap plastic imports within two years.

"I have no doubt that the recycling of plastic waste and used electronic parts are profitable businesses at the moment," Natural Resources and Environment Minister General Surasak Kanchanara said, according to The Nation. "Some business operators may make a lot of profit from the recycling industry, but what will the country gain from their prosperity when our environment becomes polluted and the people suffer?"

Thai plastics recycling companies are concerned that the two-year period is too short a time period for implementation, according to the report. Their concern suggests that, despite the June prohibition, scrap plastic is still entering the country. Industry representatives have noted that imported scrap plastic is of higher quality than domestically generated material, and they say it is cheaper as well.

But the environment minister stated that continuing to import plastic loads will prevent developing a domestic scrap plastics collection system and that without action, "the already-severe waste problem in the country could aggravate."

According to Thai customs data, the country imported 757 million pounds of scrap plastic from January through June, substantially higher than the 118 million pounds it imported during the same period in 2017.

Taiwan To Regulate Imports

Like other Southeast Asian nations, Taiwan has seen a large increase in scrap material imports this year. But unlike other countries, Taiwan has had a fairly unregulated scrap import system.

But more government attention may be coming, according to the Taipei Times.

The newspaper reported on a Taiwanese news conference held by that country's Environmental Protection Agency on Aug. 13, during which the large-scale import influx was discussed.

According to Taiwanese trade statistics reviewed by Resource Recycling, Taiwan imported 433 million pounds of scrap plastic from all countries during the first half of 2018, up from 171 million pounds during that period in 2017.

According to the newspaper report, officials at the conference explained that "domestic firms do not need to apply for government approval to import waste plastics and paper, because they can be used as industrial materials, but with the increasing volumes, the quality has degraded, while prices for domestic recycled waste have plunged."

To remedy the growing problem, the Taiwan Environmental Protection Agency drafted regulations that will restrict imports.

Under the proposed changes, local firms can only import scrap plastics that originate from their own overseas production processes, the agency said, adding that nothing should be mixed with "other waste." Importers will also need to have proper licensing to bring in material. Scrap plastic imports would be greatly reduced.

City Of Victoria Pushing For B.C.-Wide Ban On Disposable Plastic Packaging

Victoria introduced its ban on single-use plastic bags at store checkouts on July 1. Shops have until the end of the year to use existing stock.

Victoria is asking the province for a province wide ban on disposable plastic packaging.

“If the province takes a leadership role, each municipality doesn’t have to spend time working through developing their own bylaws,” said Victoria Mayor Lisa Helps.

The city’s resolution on plastic packaging is one of seven Victoria has put to the annual Union of B.C. Municipalities conference, which begins in Whistler on Sept. 10.

“Victoria has been on the leading edge in Canada in terms of the nature of our bylaw but our hope with the UBCM resolution is that that the province can take up the charge,” said Helps.

Victoria banned single-use plastic bags at store checkouts on July 1. Shops have until the end of the year to use existing stock.

Victoria’s ban was intended to try to reduce the approximate 17 million plastic bags that end up annually at the area’s landfill — but “taking care of the environment is a provincial issue,” she said.

The single-use plastics resolution asks the province to work with local governments and retailers, noting Victoria worked with industry for two years before the introduction of its bylaw. “Unrestricted use of disposable plastic packaging is inconsistent with the values of British Columbia residents,” says the resolution, which cites any type of disposable single-use plastic packaging.

Saanich is drafting a report on the next steps toward considering its own ban single-use plastic bags, based on the Victoria model.

On June 8, Prince Edward Island passed legislation to prohibit businesses from handing out single-use plastic bags — a law that resembled the plastic-bag bylaw in Victoria, said the Retail Council of Canada. The law comes into effect next year.

Victoria’s ban was upheld by the B.C. Supreme Court after a challenge by the Canadian Plastic Bag Association which argued the city does not have jurisdiction under the Community Charter to prohibit businesses from providing plastic bags to their customers — suggesting it’s an environmental regulation that needs provincial approval.

Chile Bans Plastic Bags

On August 3rd, Chile officially promulgated the “Prohibition of Plastic Law”, forbidding all supermarkets and shops in the country to provide plastic bags to customers. Chile will thus become the first country in Latin America to comprehensively ban merchants from supplying plastic bags to shoppers. Chilean President Piniella sent out environmentally friendly bags to pedestrians in the center of the capital Santiago to celebrate the official promulgation of the “Prohibition of Plastic Law”.

Starting from August 3rd, 2018, supermarkets, shopping malls and department stores nationwide will be allowed for a six-month grace period. According to the “Prohibition of Plastic Law”, small and medium-sized micro-businesses will be given a two-year grace period, during which two plastic bags can be supplied to each shopper. Effective August 3rd, 2020, plastic will be comprehensively “banned” in Chile.

Korea Effectively Bans Plastic Bags

In order to comprehensively solve the problem of rejecting discarded plastics, the Ministry of Environment of Korea will implement a 40-day legislative notice on the relevant legal amendments since August 2, and will comprehensively ban the use of disposable plastic bags in shopping malls and supermarkets from the end of the year, transforming from “prohibiting the free use” to the “completely banning it”. More than 11,000 supermarkets and more than 2,000 large-scale shopping malls will only provide customers with garbage bags with measurements, empty paper boxes and green shopping bags in the future.

New Zealand, Comprehensively Banned The Use Of Disposable Plastic Bags.

According to a report of Singapore's "Lianhe Zaobao", New Zealand announced on the 10th that it will gradually ban the use of disposable plastic shopping bags in 2019, and take a "meaningful step" to reduce pollution.

New Zealand Prime Minister Ardern pointed out that New Zealand uses "hundreds of millions" of disposable plastic bags every year, most of which will eventually harm marine life. If there is no change, it means that by 2050, there may be more plastic than fish in the ocean.

She said: "We have to manage garbage more intelligently. This is a good start... We are gradually phasing out disposable plastic bags to better care for the environment and protect New Zealand's reputation for cleanliness and environmental protection."

It is known that 41 countries around the world have adopted taxation measures to curb the use of disposable plastic bags, including Ireland and South Africa.

Ocean Plastics-Eating System On Its Way To World's Biggest Waste Hotspot

The Ocean Cleanup system has been deployed 1200 nautical miles off the shore of San Francisco, reports Dutch inventor Boyan Slat. The 24-year old came up with the solution he claims will get rid of 90% plastic waste swirling around in the 'Great Pacific Garbage Patch' by 2040.

"System 001" developed by Dutch eco-pioneer Boyan Slat is currently en-route from the San Francisco Bay to the world's largest marine waste hotspot situated halfway between Hawaii and California. The floating system is being towed by the vessel Maersk Launcher, which will remain at the final destination as an observation post for several weeks.

The Great Pacific Garbage Patch contains an estimated 1.8 trillion pieces of plastic, and covers an area twice the size of Texas. According to Slat, the first plastic will be collected and returned to land within 6 months after deployment.



‘This will mark the first time that free floating plastic will have been successfully collected at sea,’ he comments. The Ocean Cleanup plans to recycle the material into high-end products and use the proceeds to help fund its future clean-up missions.

The young entrepreneur explains that a secondary goal is to collect performance data to improve the design for later deployments. For instance, the system is equipped with solar-powered and satellite-connected sensors, cameras and navigation lights to communicate the position of System 001 to passing marine traffic, and enable extensive monitoring of the system and the environment.

The Ocean Cleanup aims to scale up to a fleet of approximately 60 systems focused on the Great Pacific Garbage Patch over the next two years. Slat believes that the full fleet can remove half of the plastic in the area within five years’ time.

Finally deploying the waste collection system is ‘an important milestone’, Slat realises. ‘But the real celebration will come once the first plastic returns to shore. For 60 years, mankind has been putting plastic into the oceans; from that day onwards, we’re taking it back out again,’ he said at the San Francisco ceremony.

System 001 consists of a 600-meter-long (2000 ft) U-shaped floating barrier with a three-meter (10 ft) “skirt” attached below. Slat emphasises that the system is designed to be propelled by wind and waves, allowing it to ‘passively catch’ plastic debris. Due to its shape, the debris will be funnelled to the center of the system. Moving slightly faster than the plastic, the system will act ‘like a giant Pac-Man’, skimming the surface of the ocean.

More than US\$ 20 million has been invested by various parties to kick-start development of the system. Boyan Slat first came up with the idea in 2013, when he was 18 years-old and was studying at Technical University Delft in the Netherlands.



Plan To Eliminate Waste Presented To UK Government



A UK university and a group of bottled water and soft drink manufacturers have presented a report to the British government that aims to eliminate plastics packaging waste from the value chain by 2030.

The independent report, which was developed by The University of Cambridge Institute for Sustainability Leadership (CISL) and the Future of Plastic Packaging Working Group*, is said to be the first of its kind and is set out to encourage other industries and countries to create their own systemic roadmaps and visions to eliminate plastics packaging waste.

Eliot Whittington, director of policy at CISL, said: “It is clear that the bottled water and soft drinks sectors are showing commitment to finding a solution to the plastics packaging waste problem and are grappling with the real challenges of doing so.

“The report we have released today with leading companies from these sectors aims to provide a clear, strategic and ambitious roadmap for transformation of their value chain in the UK, enabling real impact and action on this problem and spurring the sector forward into a new way of operating. We are now seeking to convene working groups to deliver on the four pathways set out in the report and encourage organisations and experts interested in eliminating plastics packaging waste to join them.”

The key actions and aspirations include a commitment from producers to make all bottled water and soft drinks packaging from 100 per cent recyclable or reusable material and aim for at least 70 per cent recycled material by 2025, and for producers and Government to investigate the optimal material for future plastics packaging to eliminate plastics waste, while ensuring the lowest overall environmental impact.

The report also suggests that research be conducted into consumer behaviour to support recycling ambitions towards achieving a ‘circular economy’ for plastics packaging, and for the government to create a consistent nationwide recycling system and reinvest revenue from new policies into UK recycling, sorting and reprocessing capacity.

The roadmap provides a timeline for working towards the goal of transitioning towards a more circular economy for plastics soft drinks packaging, where plastics packaging use is reduced wherever possible and otherwise is reusable or recovered and recycled.

Many Good Reasons for Liquid Dairy to Switch to PET Packaging

Globally, the use of PET as a packaging material is expected to continuously grow within the liquid dairy sector. Traditionally packaged in carton or HDPE containers, liquid dairy products bottled in PET are forecasted to grow by 4.4 per cent in the period from 2018 to 2020. With 13.7 billion package units today, PET-packaged products are estimated to reach 14.9 billion units worldwide in 2020. The adoption of PET started in Europe nearly 20 years ago and has been deployed worldwide now, for chilled and ambient distribution drinks, for UHT milk, flavoured milk, or soy milk. The trend is even bigger around on-the-go formats than around family formats. In fact, the bottle sizes up to 500 ml represent more than two thirds of those PET packages, meaning 8.3 billion units in 2018, projected to reach 9.6 billion units in 2020.

When packaging liquid dairy products like white milk, flavoured milk, enriched milk, plant milk, soy milk, or drinking yogurt, multiple variables can influence their quality, including microorganisms, light, oxygen, and temperature. The PET growth can be credited especially to this packaging material's 100 per cent recyclability, its excellent barrier properties and its neck and cap tightness that ensures food safety. Moreover, from transparent to opaque solutions, PET packaging alternatives can ensure top product protection and quality, while delivering the expected shelf life without need for aluminium foil for a more sustainable business.

For instance, LSDH France launched its UHT white milk in PET bottle without aluminium foil in 2007. In Brasil, Jussara switched its UHT white and flavoured milk production from carton to PET, for family and on-the-go bottle formats. Later on, this Brazilian company also launched a range of on-the-go, lactose-free products. In China, the world's number one liquid dairy producer, Yili has released its six-month-shelf-life premium drinking yogurt in PET bottles.

It is important to highlight that PET barrier solutions ensure product safety across the supply chain, with good oxygen barrier properties, 15 to 30 times higher compared to monolayer and three-layer HDPE (High Density Polyethylene). Regarding light protection, this is achieved through different preform manufacturing technologies and their light blocking capabilities. One of them is the injection of monolayer preform, using a standard injection tool system, mixing PET material with master batch from various suppliers. The other one is the multi-layer preform, which can be produced using either over-moulding or co-injection technologies. Those barrier solutions are adjustable in terms of additives and weight according to product recipe, bottle size, and the desired extended shelf life to be achieved.

For any product type or package format released on the market, PET packaging gives the opportunity to attract consumers with great brand differentiation, due to the bottle design freedom offered by the Injection Stretch Blow-Moulding (ISBM) technology and by the inherent and geometric properties of the PET raw material itself. Round or square, asymmetric or with specific handling, its high marketing potential opens up virtually unlimited possibilities to design whatever premium or affordable package. While providing a unique communication platform for brands – that are increasingly using labels or the container itself to engage with their consumers – PET bottles are also allowing users to see the content inside, thanks to their transparency. Easy to open and handle, it is a functional and convenient type of package leading to a great consumer experience.

As market demands are quickly changing, shifting from standard bottle size towards smaller packages, PET offers sheer endless possibilities to enhance production flexibility with simple and easy changeovers on the production line, while refreshing the brand of a complete bottle family from large to on-the-go formats to answer every need. Sidel can help in designing a unique and ergonomic bottle in line with dairy brands' requirements. We can evaluate PET bottle strength and performance across the supply chain: through laboratory tests under real production and supply-chain conditions, we determine the most suitable packaging designs, PET barrier solutions, sizes, shapes, caps, and filling volumes.

In this industry, production flexibility is particularly key in terms of product recipes, bottle formats and shapes, cap and label applications: all of that without compromising on high line efficiency over time. Low- and high-acid products can be bottled on the same Sidel Aseptic PET packaging line, from 0.2-litre to two-litre formats. Bottles can be sealed with standard flat caps or sport caps from 28 mm to 38 mm, including the possibility to add specific over-caps, to further differentiate the bottles. To ensure a

reliable and efficient production, the line is designed to offer maximum flexibility with reduced downtime for product changeovers, and a simple three-hour cleaning and sterilization period between bottle-to-bottle productions.

Working as a versatile marketing tool, the PET bottles offer many possibilities when it comes to decoration. On top of roll-fed labels or sleeve labels, a complete sleeve covering the cap can also be used, as such increasing the communication-facing surface. The same bottle shape can be customized with different cap colours and label decorations, in order to easily multiply the SKUs with minor changes in the production process. Adaptable to niche markets or mass production, the Sidel Aseptic PET complete lines are optimized from low- to high-speed outputs, with a range spanning from 10,000 to 60,000 bottles per hour, according to the forecasted production volumes.

Starting from a raw material perspective, PET is the most affordable plastic available on the market, with prices that remained quite stable over the past ten years. In the PET market, the offer exceeds the demand and preform suppliers are available worldwide, both aspects contributing to a competitive supply chain.

It is also notable that the right-weighting potential in PET bottles is huge, as the water industry largely demonstrated. For example, the average weight of a one-litre PET bottle for UHT milk is 24 g, whereas a HDPE bottle for the same application weighs between 28 and 32 g, with no possibility for lightweighting. With the good neck and cap tightness, the sealing does not require aluminium foil; consequently dairy manufacturers have less raw material and less equipment to acquire. Using no water and almost no chemicals, the Sidel Aseptic Combi Predis globally contributed to save seven billion litres of water and 57,000 tons of PET, while producing a staggering 46 billion bottles.

Quantifying Environmental Benefits Of Recycled Plastic

Researchers have calculated substantial upsides from making products out of recycled PET, HDPE and PP instead of prime plastics.

For example, using RPET may generate half the greenhouse gas emissions (GHG) of virgin plastic, according to preliminary data released by Franklin Associates. The reductions may be even greater for recycled polyolefins.

APR on Aug. 21 held a webinar to unveil preliminary results from the research. Initiated about 18 months ago, the project involves updating and expanding on PET and HDPE research Franklin Associates released in 2010. For the 2018 update, Franklin Associates, a division of Eastern Research Group, also looked at recycled PP for the first time.

The research investigated GHG emissions from “cradle to gate,” including collection, transportation, sorting and processing into flake or pellet. Franklin Associates didn’t attempt to study impacts associated with manufacturing finished products because of the wide variety of products made from plastics and their varying environmental impacts.

Bev Sauer, senior project manager estimated that if a food and drink packaging manufacturer ditches virgin plastic in favor of “solid-stated” RPET pellet, it would cut GHG emissions by about half (solid-stated means the plastic has been decontaminated for food contact and its intrinsic viscosity boosted). “And for HDPE and PP, it’s looking like the savings are even greater, in the range of 65 to 70 percent,” Sauer said.

The most important part of the analysis was collecting data from plastics reclaimers, Sauer said. Her company gathered detailed information from seven PET reclaimers, five HDPE reclaimers and three PP reclaimers.

The work found that the majority of greenhouse gases generated within the recycling chain come via the reclaimers. For food-contact PET, nearly 90 percent of their gases were associated with reclaimer operations. For HDPE and PP pellet, 70 to 75 percent were generated by the processing steps. PET was higher because of the additional environmental impacts from the decontamination steps, she said.

Lego Wants to Completely Remake Its Toy Bricks (Without Anyone Noticing)



At Lego, petroleum-based plastics aren't the packaging, they're the product — and the bricks making up these dinosaurs have barely changed in more than 50 years.

In its research lab, though, Lego is trying to refashion the product it is best known for: It wants to eliminate its dependence on petroleum-based plastics, and build its toys entirely from plant-based or recycled materials by 2030.

The challenge is designing blocks that click together yet separate easily, retain bright colors, and survive the rigors of being put through a laundry load, or the weight of an unknowing parent's foot. In essence, the company wants to switch the ingredients, but keep the product exactly the same.

Consumers worldwide have voiced growing alarm about the impact of plastic waste on the environment, and increasing numbers of companies are trying to use packaging materials that are recyclable or otherwise less polluting. Coca-Cola, for instance, plans to collect and recycle the equivalent of all the bottles and cans it uses by 2030. Unilever, the consumer goods giant, says all its plastic packaging will be recyclable or compostable by 2025. Others, like McDonald's and Starbucks, are doing away with plastic straws in their outlets.

The toymaker's highly automated manufacturing facility is a picture of clock work. At a mammoth factory more than 500 yards long, machines arranged in rows melt plastic pellets into a molten paste and press them into molds. A few seconds later, a batch of colored bricks pops out, and is deposited into driverless carts, taken to be stored for shipment. Each day, the facility churns out about 100 million "elements," the term Lego uses for the bricks, trees and doll parts it sells.

Lego — the company's name is a contraction of the Danish words for "play well" — traces its roots back to the early 1930s, when a carpenter named Ole Kirk Kristiansen began making and selling handsome fire engines and other wooden toys.

By the 1950s, he was experimenting with plastic bricks. His son Godtfred began marketing the distinctive little blocks not just as toys, but as a building system that could be expanded and passed on to later generations. Bricks that date back to 1958 are still compatible with current products, according to Lego.

Today, the company sells its wares worldwide and has secured partnerships with film franchises like Batman and Star Wars to market not just themed brick sets, but movies and video games featuring Lego toys. It brought in 7.8 billion kroner, or about \$1.2 billion, in profit last year, making it larger than its American rivals Mattel and Hasbro. The Kirk Kristiansen family, which still controls Lego, was paid a \$1.1 billion dividend.

But more and more children are using mobile devices for entertainment, pitting Lego not just against toy makers but against technology and gaming companies like Activision Blizzard, Microsoft and Sony. That has put the company under pressure. Lego said last year that it would cut 1,400 jobs after its revenue and profit both fell for the first time in a decade.

Its heft, however, brings with it a substantial carbon footprint. Lego emits about a million tons of carbon dioxide each year, about three-quarters of which comes from the raw materials that go into its factories.

Lego is taking a two-pronged approach to reducing the amount of pollution it causes. For one, it wants to keep all of its packaging out of landfills by 2025 by eliminating things like plastic bags inside its cardboard packaging.

It is also pushing for the plastic in its toys to come from sources like plant fibers or recycled bottles by 2030.

The problem with that target, though, is that virtually all of the plastic used worldwide — including that molded by Lego into toy bricks — is created from petroleum.

Currently, Lego mostly uses a substance known as ABS, short for acrylonitrile butadiene styrene, a common plastic also used for computer keys and mobile phone cases. It's tough, yet slightly elastic, and also has a polished surface.

To wean itself off products like ABS, Lego has begun an exhaustive search for new, sustainable materials.

It is investing about 1 billion kroner and hiring about 100 people to work on these changes. Technicians methodically test promising materials to see whether they can take a whack without breaking, or survive a hard pull. They are checked to see if they withstand the heat of a Saudi Arabian summer, and take on the bright color palette that Lego bricks are famous for. The company's bricks may look simple, but they are made with incredible precision.

Company researchers have already experimented with around 200 alternatives. Among them, Ms. van der Puil said, was a substance called PLA, one of the few bio-based plastics that are readily available. Lego is also already using polyethylene made from sugar-cane husks in flexible pieces like dragon wings, palm trees and fishing rods, but these constitute only 1 percent to 2 percent of its output, and the material is too soft for the company's toy blocks.

Most test materials, both bio-based and recycled, have so far fallen short. Some bricks made with the new materials have broken, leaving sharp edges that could injure a child, or have popped out with ugly, muddied colors. Others have on occasion produced misshapen or pockmarked bricks.

The search for a substitute for petroleum-based plastic could yet take years of work, Mr. Brooks acknowledged. Still, executives argue that, as a company that models itself as a de facto educator as much as a profitable enterprise, it has little option but to keep trying.

Starbucks Tries To Save 6 Billion Cups A Year From The Trash ... With Help From Mcdonald's



You go to the coffee shop and take your coffee to go. You enjoy your drink, then throw the paper cup in the trash. Or do you put it in the recycling? It's confusing.

A lot of us — people everywhere — are using to-go cups these days.

“A recent report said that there are 600 billion cups — billion with a ‘b’ — that are produced and sold globally on an annual basis. So that’s a lot,” says Christy Slay with The Sustainability Consortium.

Starbucks alone says it contributes 1 percent of those disposable cups: That’s an estimated 6 billion cups a year.

To help reduce those numbers, Starbucks and McDonald’s are launching a three-year project to build a better cup: one that’s both fully recyclable and compostable.

Here’s the big problem with the paper ones you get there and in other coffee shops. They look like paper, but they actually have a thin layer of plastic on the inside.

That plastic coating keeps the cups from leaking. Problem is, it also makes the cups really hard to recycle, and only a few facilities in the world can do it. These cups also can’t be composted.

A few companies have already rolled out compostable coffee cups. But Dylan de Thomas with The Recycling Partnership says there’s a problem with those cups too. Typically they’re compostable in industrial settings, so not your backyard compost that you and I might have, but at fairly technically advanced composting facilities.

The goal of the plan recently rolled out by Starbucks and McDonald’s is to build a paper cup with a plant-based biodegradable liner, a cup that would be more easily compostable and/or recyclable.

Starbucks is calling it a “moon shot” for sustainability, and the coffee giant and McDonald’s are also dangling \$1 million dollar prize to anyone else who can figure it out.

But even with these companies’ vast resources, it’s proving to be a really big challenge. Starbucks has already tried out 13 prototypes in the past year.

Starbucks currently gives people a 10 cent discount in the US for bringing their own cup. Paglia says the coffee giant needs to flip that around and charge extra for a disposable one. He says that's the only way to really change our behavior.

The company has been trying that out in the UK.

Christy Slay says if you buy to-go coffee even a few times a week and bring your own cup, “that could have a large impact. If you do that over multiple years, you’re talking about a lot of cups.”

So as Starbucks and McDonald’s work toward their “moon shot” cup, in the near-term, most agree that bringing your own might be the best solution.

Will Carlsberg’s Beer Packaging Solution Stick?

Danish beer brand Carlsberg has come up with a novel way to reduce up to 76% of plastic packaging used in multi-packs. Their solution is simple yet effective; glue.

Overpackaging has been a problem for many years now. Especially in the alcohol industry, which was worth approximately US\$ 40 billion last year. Analysts believe that secondary packaging market (boxes, multipacks, tubes etc.) will grow at a ‘healthy’ 5.3% during the forecast period 2017-2025.

So why not embrace the ‘less is more’ mindset? That’s exactly what Carlsberg is doing. The beer brand explains that its fitting called “Snap Pack” completely replaces traditional plastic packaging wrapped around Carlsberg multi-packs with a glue. This substance sticks the cans together like Lego blocks until the consumer removes one from the pack.



The Snap Packs have launched on a trial basis in the UK and Norway this month, says Carlsberg’s sustainability director Simon Boas Hoffmeyer. Further rollouts are scheduled for 2019.

Once the packaging solution has been adopted in Carlsberg’s 11 global markets, the brewer’s plastic packaging waste will be reduced by more than 1200 tonnes a year. ‘This is the equivalent to 60 million plastic bags’, Hoffmeyer notes.

He adds that the glue should be placed into recycling bins alongside the cans, rather than separated.

Norfolk Tops Up Recycling Firm



Norfolk County approved an emergency payment this week to its recycling contractor.

HGC Management recently informed the county that the market for recyclable materials has taken a serious downturn. It's to the point where achieving profitability is a struggle.

Tuesday, Norfolk council agreed to an emergency payment of \$50,000. Mayor Charlie Luke noted there is a 90-day exit clause in Norfolk's contract that either party can trigger at any time. Luke said HGC provides good service and that the county wants to keep it on board.

Chris Baird, general manager of public works, said the recycling market is challenging now that China – the main buyer of recyclable materials from North America – has tightened up the rules on what it will accept. Baird added that prices for specific commodities such as cardboard have softened considerably.

China has raised the bar because of recent concerns over the environmental impacts of processing recyclables. China also insists that shipments are clean and free of impurities.

County clerk Andy Grozelle noted that Norfolk's \$50,000 payment is the maximum council can make now that it has entered a lame-duck phase. Norfolk council's spending power has been curtailed significantly now that one-third of incumbent council members are about to retire. Provincial regulations prevent municipal councils from making major expenditures once they reach this lame-duck threshold.

Canada Fibers Ltd Seeks Damages From City Of Hamilton

Canada Fibers Ltd. (CFL) has filed a statement of claim with the Superior Court of Ontario asserting damages arising from breach of contract by the City of Hamilton. CFL's decision to file the claim follows over 12 months of negotiations with Hamilton staff that culminated in a recommendation by the City's staff proposing measures to resolve the breach and end the dispute.

Unfortunately, Hamilton City Council has rejected the compromise recommended by staff and made it necessary for CFL to seek a remedy in the courts. CFL said in a press release that it will not be making any further statements concerning the action while it is being heard by the Superior Court.

Canada Fibers Ltd. operates recovery facilities in Canada. Since starting as a Toronto-based paper brokerage in 1990, Canada Fibers now owns and/or operates 13 MRFs in Ontario, serving both municipal and commercial customers.

Emterra Facing More Non Compliance Fines

The fines are adding up as Emterra, the company that picks up trash in Niagara Region, continues to be plagued by delays.

During a recent region's public works committee meeting, members discussed the chronic problems the company has had this summer picking up garbage and recycling.

Waste management services director, Catherine Habermebl says last Monday, the company had 12 drivers call in sick which affected 12 routes, representing about 1,100 stops each.



She says Emterra has only completed collections, on time, seven days between the middle of March and June.

As a result the company is facing fines of more than \$600,000 dollars for failing to comply with the terms of their contract which states collection must be completed by 5 pm each day.

Glass And Plastics Being Removed From Recycling Pick Up In Strathcona County

Glass and most plastics are being forced out of blue bag collection in Strathcona County as a result of tightening international recycling markets, even though it means increasing the amount of waste ending up in landfills.

As of Sept. 10, the county will no longer be accepting any glass items, styrofoam, to-go coffee cups and plastic materials — excluding hard plastic containers — in its weekly recycling collection.

This is a response to tougher restrictions on reusable materials accepted globally as spearheaded by China at the end of 2017, said Leah Seabrook, manager of waste management and community energy.

The struggle to meet new marketplace demands conflicts with the global goal to reduce landfill waste where the Strathcona County plastics will now end up.

“It’s not ideal, in the short-term there will be more materials to the landfill,” Seabrook said. “We don’t, unfortunately, have another option.”

But Seabrook said this “crisis” allows for important conversations to make long-term adjustments.

“There’s going to be some solutions that come forward to address how we handle plastics,” she said, noting that many of the county’s 98,000 residents are disappointed in the market changes. “The conversation has shifted to what can we do about it. That’s what we’re focusing on.”

An education campaign was launched in June to notify residents of the impending changes, Seabrook said, and blue bags found with unacceptable or contaminated items will be marked and not collected as of Sept. 10.

Items must be free of food, liquid and any other non-recyclable materials and Seabrook said collectors will be doing quick visual checks to determine if there are noticeable concerns before taking the bags. Glass and large packing styrofoam will only be accepted at the Broadview Enviroservice Station and will no longer be picked up because they are difficult to properly sort if broken.

Nine Dragons purchases West Virginia mill

A United States-based subsidiary of Hong Kong-based Nine Dragons Paper (Holdings) Ltd. has entered into an agreement with Montreal-based Resolute Forest Products Inc. to purchase Resolute's recycled-content bleached kraft pulp mill in Fairmont, West Virginia.

According to a press release issued by Oakbrook Terrace, Illinois-based ND Paper LLC, Resolute will receive \$55 million "plus certain elements of working capital, payable in cash" for the mill. Nine Dragons says it plans to use "existing cash on its balance sheet" to fund the transaction.

"We are thrilled to add the Fairmont mill to Nine Dragons' global portfolio," says Ken Liu, CEO of ND Paper. "Our acquisition of the Fairmont mill enables us to further our U.S. and global growth, and sustains the momentum commenced by our recent acquisitions of the Biron, Wisconsin and Rumford, Maine, pulp and paper mills acquired from Catalyst Paper in [May] 2018. Not only is this transaction consistent with our long-term strategy of environmentally-sustainable papermaking, but also it further supports Nine Dragons' company-wide fiber sourcing requirements and global growth initiatives."

The Fairmont mill produces recycled-content pulp used in packaging and tissue products. Located in the northern part of West Virginia, the mill has an annual production capacity of nearly 220,000 metric tons and is one of three pulp mills in the world that produces air-dried recycled pulp, according to ND Paper.

Through the acquisition, ND Paper says it will gain access to high-quality recycled pulp and will diversify its manufacturing base. The company also says it intends to make capital investments in the mill that will "expand its current capabilities and inject growth into the West Virginia economy, particularly in the surrounding community."

Nine Dragons operates nine mills and 39 paper machines with total annual production capacity of more than 14 million metric tons. The company was established in 1995.

ND Paper says it expects to close on the acquisition by the end of October, "subject to customary closing conditions and approvals," and that it has agreed to offer employment to the Resolute mill's workers, "effective upon closing of the acquisition."

ND Paper worked in cooperation with New York-based Sonenshine Partners LLC as its financial advisor and Cleveland-based Jones Day as its legal counsel to structure the acquisition. Toronto-based BMO Capital Markets acted as the financial advisor on behalf of Resolute.

The acquisition occurred within days of another U.S. paper or pulp mill being purchased by an Asian company. In late August, China-based investment group Global Win Wickliffe LLC acquired an idled Verso Paper mill in Ballard County, Kentucky, with plans to reopen the facility by the end of 2018 after investing in equipment and technology at the facility. The mill has been idle since mid-2016.

Boston-based forest products information services provider RISI says sources have indicated to it that Global Win Wickliffe is investing on behalf of Shanying International, one of China's five largest containerboard producers. If so, the mill in Kentucky would be Shanying's first pulp and paper production facility in the United States, according to RISI.

According to a news release issued by the office of Kentucky Governor Matt Bevin, Global Win Wickliffe plans to invest about \$150 million to upgrade the mill, following up on its \$16 million acquisition of the facility from Verso.

Saskatoon Reveals Potential Costs For 'Pay As You Throw' Garbage Program

The City of Saskatoon is getting closer to having a pay as you throw garbage program in place as part of their plan to reduce waste headed to the landfill.

City administration is proposing changing to a bi-weekly collection of garbage and organics, with no changes to recycling programs.

While there will be several different options presented to city council, administration is recommending the city implements a three-year, phased waste-diversion rate structure.

For the smallest bin (180 litres), the cost may be \$18 per month with the price staying the same over the following three years. While for a medium bin (240L), the cost would be \$19.70 per month in the first year, increasing to \$22.10 monthly in the second year, and \$24.50 per month in the third year. A large bin (360L), may cost \$22.80 per month in the first year, \$29.50 per month in the second year and \$36.20 per month in the third year.

Costs do not include a monthly fee of \$5.65 for recycling pickup.

The option that administration is recommending is expected to cost the city \$13.6 million for the green and black carts, additional trucks and implementing the program. The money would be borrowed against the waste utility, to be paid back over a 10-year period.

This option would also require the city to hire 23 new staff members, with the annual operating costs expected to increase between \$10.5 million and \$12.7 million above the 2019 submitted budget.

The goal of the program is to reduce waste heading to the landfill by 70 per cent over the next five years.

The city has said if action isn't taken to reduce the amount of waste currently going to the landfill, it would have to be closed and a new one opened at an estimated cost of \$150 million.

These changes would apply mainly to single-family units, and not to apartment or condo buildings.

The recommendations still need to be brought forward at city council and no final decisions have been made yet. The city hopes to implement this program in 2019 and have it fully running by 2020.

Ontario to Reduce Cost of Natural Gas

Ontario Premier Doug Ford today announced the removal of the carbon tax from natural gas bills in Ontario. Removing the carbon tax from the cost of natural gas for all consumers is part of the government's promise to lower energy costs for Ontarians.

Removing the Carbon Tax from Natural Gas Pricing

The Province revoked the cap-and-trade carbon tax regulation and prohibited all trading of emission allowances effective July 3, 2018.

Bill 4, The Cap and Trade Cancellation Act 2018, which aims to repeal the carbon tax, was introduced into the legislature on July 25, 2018.

Removing the carbon tax means a reduction of approximately 3.3 cents per cubic metre on the price of natural gas for Ontario consumers.

As of October 1, 2018, natural gas bills will no longer include the carbon tax. Any overcharges for the cap-and-trade carbon tax will be refunded to customers.

Ontario families will save about \$80 a year.

Small businesses can expect to save about \$285 a year.

The Ontario Energy Board is expected to provide direction to natural gas utilities no later than August 31, 2018, instructing utilities to file new customer rates with the carbon tax charges removed.

How Tool Sharing Could Become A Public Utility

The Challenge: Tools and other equipment have a low frequency use, but are found in many households and therefore represent a high material intensity, underutilised and space occupying item.

The Solution: Consolidate tools from many households into one centralised 'library', giving access to the local neighbourhood on a subscription basis.

What is the unexpected benefits? The libraries have evolved into innovation hubs gathering communities of makers that share design and knowledge; as well as providing training and mentoring for local youth.

The Result: members have access to 7000+ high quality tools; an inspiring and creative workspace and de-cluttered homes.

Why peer-2-peer sharing doesn't always work

Here's one you've heard before: the average drill is used for just 13 minutes in its lifetime. Yet many of us possess our own drill. So what if you could see which tools and toys your friends and neighbours owned, and borrowed from them? It sounds great, and has been a promise of the sharing economy. However according to Ryan Dymont, Founder of the Toronto Tool Library and Sharing Depot, it doesn't quite work like that.

When most people are planning a home improvement job, they don't just need a drill. More often than not, they'll need a range of different tools and supplies. For instance, to make and install a home-made shelf you'll potentially need 10 items including a power drill, circular saw, work table, sander, tape measure, level, drill bit, screwdriver bit, safety glasses and perhaps a ladder. With a peer-to-peer model, this would mean visiting a number of different friends and neighbours, coordinating various pickups and returns, increasing the inconvenience and cumulative transactional cost.



This is one reason why the Toronto Tool Library takes a different approach. Opening its doors in 2012, the library holds an inventory of more than 7000 tools, with citizens able to borrow them according to a number of membership options.

With a \$55 annual membership, users can treat the tool library as one stop where they can borrow all the items they need at no extra cost, as well as all manner of nuts and bolts; staples they might need to complete their task. Higher annual tariffs, at \$85 and \$110, offer longer loans, waiving of fees and access to items from the sister organisation The Sharing Depot, Canada's first 'library of things'.

We encourage our members to think of it as 'their garage'

How it all evolved

It all started when Dymant saw a video about one of the first tool libraries, which sprang up in Berkeley in the 70s. Being inspired by this model, he pitched it to his team at the Zeitgeist Movement, and a small non-profit was born.

From there, the Tool Library has inhabited different and bigger spaces, but it's the acquisition of the tools themselves that really highlights the structural waste in the home improvement industry. After moving into an affordable basement property, the first volunteers went around the local neighbourhood looking for tools. The assumption that there were too many unused tools already was proved correct, and the inventory began to grow. Various media attention followed, which stimulated further donations, and Dymant says it got to the point where the phone was ringing off the hook with people saying "please take my tools!" Surprisingly, it wasn't some cash incentive or discount that led to these donations, but instead the prospect of clearing space in the home, getting rid of a device that had been replaced or upgraded, or simply due to an admiration of the Tool Library vision.

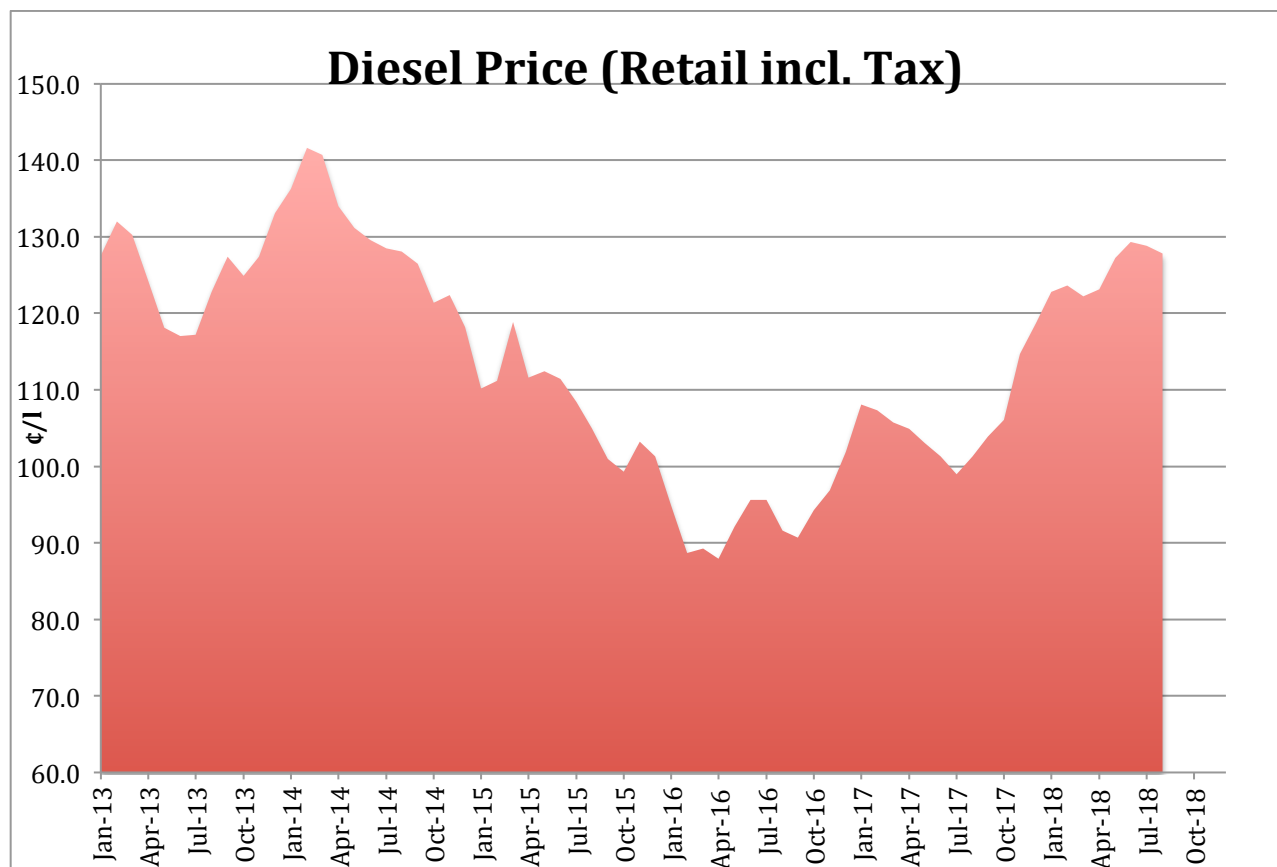
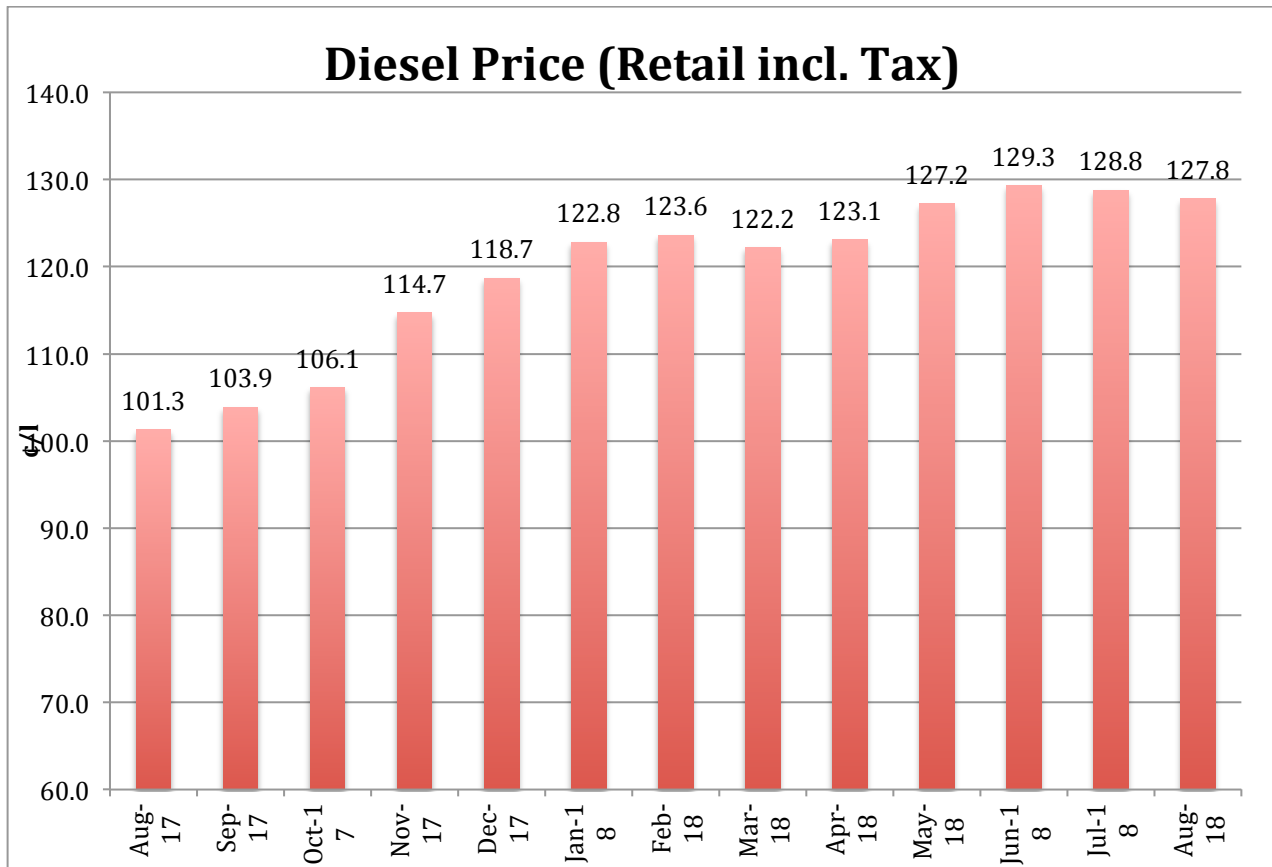
In 2016, the team opened the doors of the Sharing Depot, expanding the type of products available. Here, Torontonians can borrow camping equipment, house party supplies, board games, toys and sports equipment. There's more to life than DIY after all, and the popularity of this new venture shows that some people aren't that concerned about owning their toys, as well as tools.

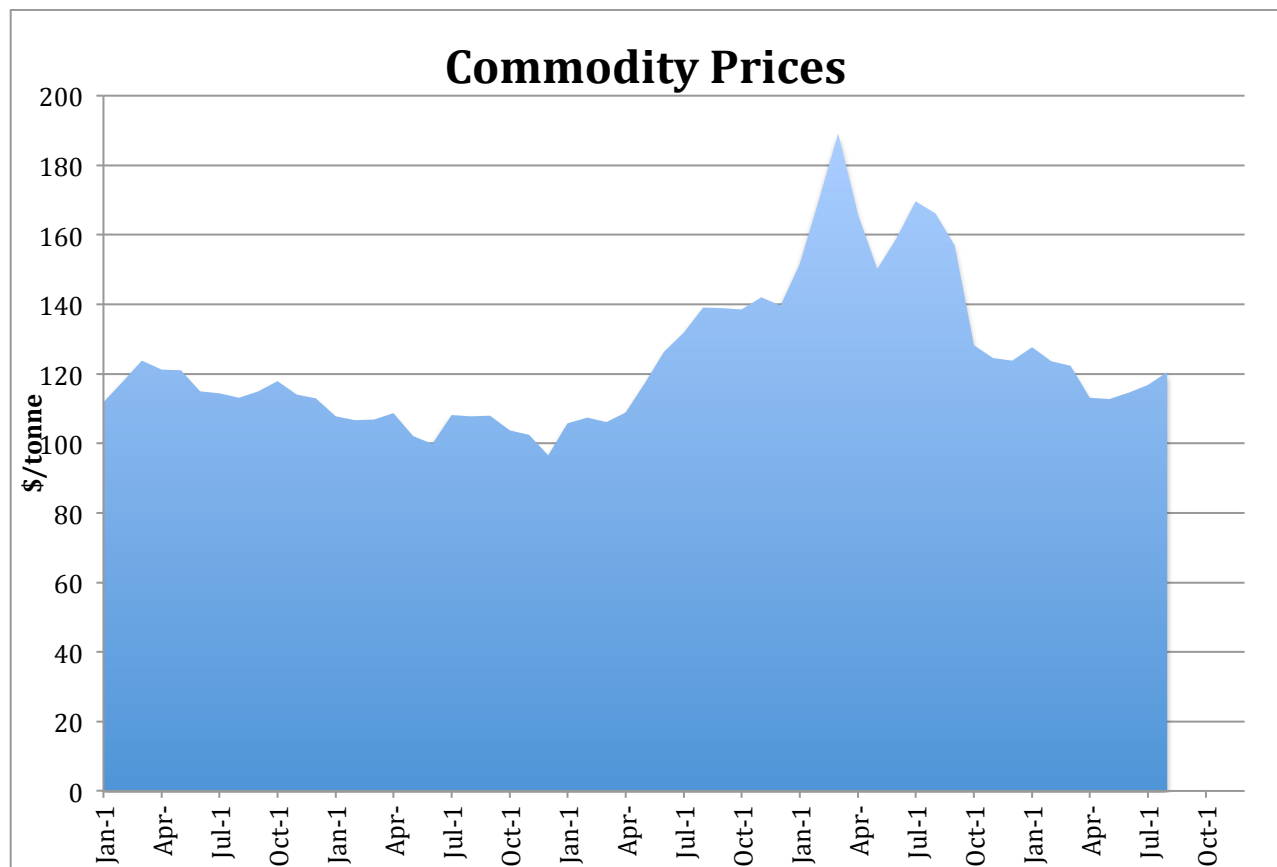
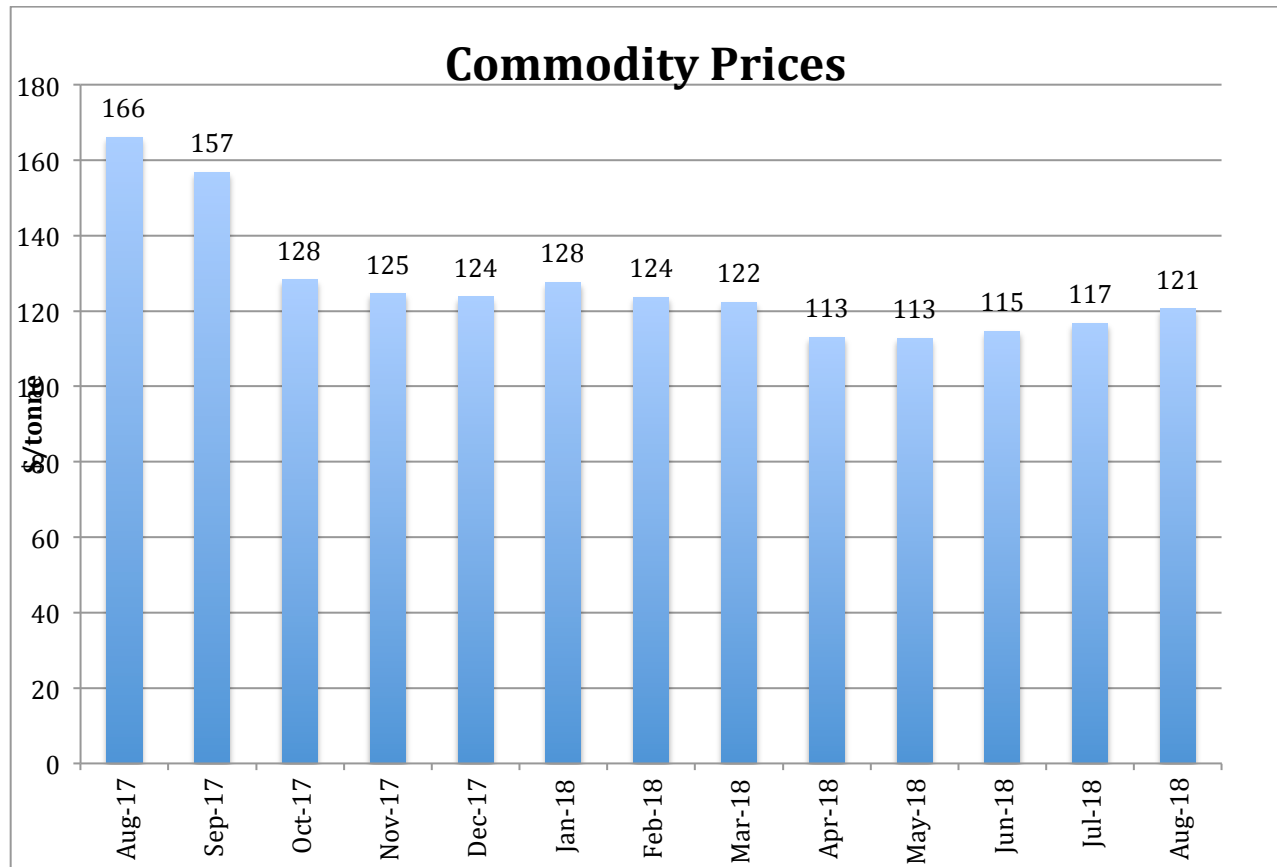
In setting up and scaling the Tool Library, it has been a learning process to find the optimum number of tools required for a community. The team in Toronto need to ask how many jigsaws they need for their members, 80-90% of which live within a 5km radius, to find a balance between reliable availability and overcapacity. So the tool library has 15 jigsaws, and Ryan points out that this is "clearly a small sample of the drills Toronto. There are maybe 1000 times more not being used." It's here that the resource savings become compelling.

If we appreciate that most household tools today are vastly underused, then the other side of the coin is that the tools held in the library endure far more intensive use. Ryan explains that equipment is maintained in the 'tool hospital', where a crew of passionate volunteers clean, tune up or revive struggling devices. Often tools are tough to open up, tricky to diagnose and spare parts difficult to come by, but Ryan says that more often than not, the team find a solution. When a tool can no longer be put back into use, it's disassembled and the components salvaged and stored. This in turn supports product life extension, facilitating the repair of similar equipment.

This whole process could be made easier if tools were designed to be treated in this way, and we can look to popular bike sharing schemes for examples of how shared use business models can influence product design. Bikes like those used in cities like London and Paris might not be the most attractive or high performing, but they are designed for utility and intensive use. This means they might be more durable, have fewer moving parts and require less maintenance such as oiling or puncture repair. This approach could be applied to tools too. Right now, if they need to purchase a tool, Ryan and his team simply look for a long warranty, but it's clear that a better alternative could lie in the application of circular economy thinking at the design phase, with modularity, standardisation and documentation as just some of the opportunities.

It might sound idealistic, but it's happened before: between 1883 and 1929, for example, some 2,500 libraries were built off the back of investment from businessman Andrew Carnegie. Expanding tool libraries in this way - as a public service and therefore free to access - could have a powerful impact on the way that we make, use and share our stuff.







How Much is Enough?

COMMUNITY CONSULTATION

for the upcoming Social Research and Planning Council research

How Much is Enough?

Impact of Low Incomes on Families and Communities in Huron and Perth Counties

Rural 2 Rural Pre-Conference
Blyth Festival Lower Hall & Art Gallery
423 Queen Street, Blyth
Tuesday October 16, 1 pm to 4 pm

Half of the families in Perth and Huron Counties are living on less than a living wage. The Social Research and Planning Council is researching the impact of low incomes on families and communities across Huron and Perth Counties.

There is no cost for this consultation. The SRPC would like your input on the development of this research

**PLEASE RSVP to srpc@perthhuron.unitedway.ca
Or Call 519-271-7730**

The Rural Talks to Rural 2018 Conference is from October 17-19. Register for the R2R conference at:
www.ruralcreativity.org/r2r-conference



Social Research &
Planning Council



United Way
Perth-Huron



On behalf of Egeter United Church UCU, we wish to thank the Town of Egeter for giving us a grant to cover the rental fees for our Smorgasbord luncheon at the Rec Centre, May 3, 2018. We are hoping that you will once again consider our application for the May 2, 2019 event.

This year our meal was enjoyed by more than 500 people, the largest ever. Our committee was impressed by the helpful friendly staff who went out of their way to ensure that our requests were met. The large kitchen is so well equipped with many electrical outlets, large ovens, walk-in cooler and a large quantity of dishes and silverware to use.

The availability of tables and chairs made it convenient for lots of people to enjoy their meal in leisure and visit with one another. Also, our waitresses commented that the extra space was helpful for serving.

Finally, the Rec Centre provided our customers with handicapped access as well as lots of ample parking.

We hope that our request for this municipal grant will be considered for the year 2019.

Thanking you in advance

co-convenors Carol Moore
Marion Cornish
Barb Tiedeman



September 19, 2018

Financial Services
The Corporation of the Municipality of South Huron
Box 759
Exeter, ON N0M 1S6

Dear Mayor Cole and Members of Council,

Thank you so much for your support of the South Huron Hospital Foundation Gala that was held Friday June 1 at the South Huron Rec Centre. Col. Chris Hadfield was our guest this year and we enjoyed another packed room with very happy guests! This year the funds were directed once more to the South Huron Hospital, although some funds were designated to Jessica's House, which we anticipated.

We want to express our sincere appreciation to the staff at the South Huron Rec Centre. We have always been so pleased with how supportive the staff is and they are incredibly helpful. We could not do it so well without them.

Your grant approval was for the rental of the facilities and we are so grateful for that support. Every gesture and donation is immensely important to our success and we are pleased the Municipality believes our work is important enough to fund.

Please find attached our budget and final numbers for our 2018 event. We are thrilled to say we have continued to keep our donation to the hospital quite substantial thanks to the success of our Annual Gala. This year (to date) we have realized a net surplus of \$224,000. We do know there are some invoices still not accounted for at this time of grant reporting but we anticipate this will not change significantly.

The use of these funds is being utilized towards a 2018-2019 capital request from the South Huron Hospital Association of \$692,857.00. The balance of this request will be funded from our investments, which we have been building in anticipation of this eventuality. The hospital is very grateful to the community for the level of support demonstrated at our annual gala.

Thank you for your support, please direct any questions related to this report to Kimberley Payne, Executive Director, SHHF. Kimberley.payne@shha.on.ca or 519-235-2700 ext 5133.

A handwritten signature in black ink that reads "Kimberley Payne". The signature is written in a cursive, flowing style.

**South Huron Hospital Foundation
GALA - 2018**

Revenue	Budget	Actual
Sponsors/tickets	342,250	336,737
Dinner	40,000	30,244
Entertainment & travel	45,000	42,648
Rentals	20,000	17,845
Hall	2,300	2,300
Flowers/decorations	6,000	16,477
auction	2,000	1,238
MC	750	1,000
Supplies	0	551
Total Expenses	116,050	112,303
Net	226,200	224,434

Dear municipality of south Huron...

I am writing to you today on the dangerous dog status of our family pet..

On dec 21st 2016 between the hrs of 930pm and 10pm our family dog blackie was outside for the final time before bed. At that time a lady and her smaller dog had walked by. Blackie began to bark so I went to bring her in....when I went to the door blackie had broke the clasp on her chain and ran out towards her and her dog that was not on a leash, without hesitation I ran outside and brought her back in. My wife and I returned outside to make sure everything was ok and apologize for what had happened. She said everything was ok and that nothing had happened. We sincerely apologized again and returned inside and she continued on her walk.

Approximately 2-3 days later we received a visit from the bylaw officer from sarnia. We were not home as it was through day time,so he had left a business card saying to give him a call. My wife gave him a call and explained what had happened. he said that there was 2 independent witnesses at that time that had seen what what happened but yet when I went out our street was in darkness. Blackie was placed on a 10 day quarantine while only being allowed outside to go the washroom and that we had to be outside with her. He also notified us that we were being charged \$100 but not told what for.. when we went to pay for our yearly dog tag that's when we found out that she was classified as a dangerous dog within our municipality.

As of this day we have not heard from the bylaw officer or seen the lady and her dog.

About a month ago I started talking to Rebekah at town hall on how to go about changing the status of our family pet . She sent me info on subsection 8.2 that outlines the appeal tribunal. We were not notified about this process of appeal at that time which is 15 days following the incident , so that why I'm writing this letter today.

On that night if Blackie had bit her dog (that was not on a leash) she would have killed her dog because blackie is close to 80lbs and her dog was about 10-15lbs. Big size difference!!! If blackie had bit, she would have been put down because we have 4 children and that would have not been tolerated. I beleive her story is false because if it was true we would have received vet bills for treatment for bites and we would have been contacted by the Huron county health unit.

Yes our dog does bark like all dogs do. But she is very friendly and protective of our family property..

If there is any concerns please feel free to contact me at this number 226-236-6344

Exeter residents
Brad and Tina Ankers

Sent from my iPhone

Thames Road Veterinary Clinic

74 Thames Road West, Exeter Ontario

Dr. Greg Young : Dr. Shane Durnin

September 15th, 2018

To Whom It May Concern,

Thames Road Veterinary Clinic has been the veterinarian of record for "Blackie" Riley – Ankers since October 8th, 2014. Blackie is a healthy 4 year old spayed black retriever that is up to date on her vaccinations and has always had any necessary preventable health care. I can only comment on her demeanor while she is in the clinic which has always been friendly and non-threatening.

Sincerely,

A handwritten signature in black ink that reads "Shane Durnin, DVM". The signature is written in a cursive style.

Dr. Shane Durnin

February, 20 2018,

Vaccination Certificate

Client Info

102908

Christina Riley- Ankers

Home Phone: [REDACTED]

Patient Info

117349

Blackie

Species: Canine

Breed: RetrieverCX

Sex: Female, Spayed

Age: 3y; 6.3m (Aug, 13 2014,)

Description:

Tattoo#:

License#

Chip ID#

CURRENT RABIES INFO

Date Given: February, 20 2018,
Tag N° 4823170-18
Type IMRAB-3
Product Serial N° 18307 EXP 7 2017

PREVIOUS RABIES INFO

December, 30 2016,
2884561-16
IMRAB-3
Serial N° 12575 EXP 9 2015

This is to certify that on February, 20 2018, , Blackie has been vaccinated against the following:

Description	Next due
Annual Rabies vacc	Feb, 20 2019,
C.Annual DA2PP Vacc	Feb, 20 2019,
C.Annual Corona Vacc	Feb, 20 2019,
C.Annual Leptospirosis	Feb, 20 2019,
C.Annual Kennel Cough Vacc	Feb, 20 2019,

Veterinarian: _____


Dr Greg Young
6534

Rebekah Msuya-Collison

From: Susan Cronin <scronin@huroncounty.ca>
Sent: Tuesday, September 18, 2018 12:56 PM
To: Local Municipalities
Subject: Motion from County Council
Attachments: DART.pptx

Follow Up Flag: Follow up
Flag Status: Completed

Good Afternoon

At the September 5, 2018 Huron County Council meeting the following motion was approved from a delegation by Huron Domestic Assault Review Team (DART) where Teresa Donnelly, Ministry of the Attorney General and Selena Hazlitt, Rural Response for Healthy Children requested that Huron County mark the National Day of Remembrance and Action on Violence Against Women on December 6, 2018:

THAT:

The Council of the County of Huron approve the request by Huron Domestic Assault Review Team (DART) to the National Day of Remembrance and Action on Violence Against Women by:

- Half-masting the Court House Flags*
- Placement of 14 roses inside the Court House (paid for by DART)*
- The Warden's participation in an outdoor service at 10:00 AM*

AND FURTHER THAT:

Huron Domestic Assault Review Team (DART) presentation be forwarded to Huron County Municipalities for information.

Please find attached a copy of the presentation by Huron Domestic Assault Review Team (DART).

Susan Cronin, Dipl.M.M.

County Clerk

County of Huron | 1 Courthouse Square | Goderich, ON | N7A 1M2

Phone: 519.524.8394 x3257 | **Email:** scronin@huroncounty.ca | **Web:** www.huroncounty.ca

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Huron Domestic Assault Review Team

Representatives:
Teresa Donnelly, Ministry of the Attorney General
and
Selena Hazlitt, Rural Response for Healthy Children

REQUEST:

THAT HURON COUNTY MARK
THE NATIONAL DAY OF
REMEMBRANCE AND ACTION
ON VIOLENCE AGAINST
WOMEN – **DECEMBER 6, 2018**

Huron Domestic Assault Review Team (DART)

- ▶ We are a community-based, cross-sector committee which works together to improve community response to victims of domestic violence.
- ▶ Agencies represented at Huron DART:

Huron Perth Children's Aid Society
Canadian Mental Health Assoc
Huron County Health Unit
Huron O.P.P.
Victim Services
Supervised Access Program
Huron Women's Shelter
One Care

Crown Attorney's Office
Rural Response for Healthy Children
Probation Office
Alexandra & Marine General Hospital
Victim Witness Assistance Program
Choices for Change
Huron Perth Centre

Huron Domestic Assault Review Team (DART)

- ▶ We aim to strengthen linkages among agencies and service providers, and enhance inter-agency cooperation, collaboration, coordination and integration.
- ▶ We provide training and educational sessions on how to live a life free from violence (training of service providers, community members and students)
- ▶ DART's work supports the ultimate goal of a place where all women and children are able to live healthy lives, free from violence.

National Day of Remembrance and Action on Violence Against Women

- ▶ December 6 is the National Day of Remembrance and Action on Violence against Women in Canada.
- ▶ Established in 1991 by the Parliament of Canada, this day marks the anniversary of the murders in 1989 of 14 young women at l'École Polytechnique de Montréal.
- ▶ They died because they were women.
- ▶ It is a day of remembrance and a time to take action.

National Day of Remembrance and Action on Violence Against Women

- ▶ It is a day:
 - ▶ of commemoration of the 14 young women who were murdered.
 - ▶ to reflect on the phenomenon of violence against women in our society.
 - ▶ to consider the women and girls for whom violence is a daily reality, and to remember those who have died as a result of gender-based violence.
 - ▶ for communities to consider concrete actions to eliminate all forms of violence against women and girls.

December 6, 2018 – Huron County

▶ **10:00 a.m.**

- ▶ Outdoor Ceremony at Courthouse Park
- ▶ Song by The Glee Choir
- ▶ Remarks by Warden
- ▶ Naming of the 14 Women Spoken Aloud
- ▶ Song by The Glee Choir
- ▶ Remarks by Mayor of Goderich (request to be made yet)
- ▶ Remarks by Huron DART
- ▶ Song by The Glee Choir

▶ **7:00 p.m.**

- ▶ Huron County Museum Theater
- ▶ Remarks by Huron DART
- ▶ Documentary Screening

Our Request of County Council

1. Huron DART requests County Council to **lower flags to half mast** on December 6th to acknowledge the National Day of Remembrance.
2. We ask that the **Warden** (or their designate) speak at the 10 am ceremony.
3. We ask that **14 red roses** with the names of each woman who was killed to be displayed inside the Courthouse on December 6th. Huron DART will pay for and make arrangements for delivery and pick up of roses.

We also extend an invite to all Councillors and County staff to attend the ceremony and join us at the documentary screening in the evening at the Museum.

We all have a role to play in ending violence against women

- ▶ “... discrimination against women violates the principles of equality of rights and respect for human dignity, is an obstacle to the participation of women, on equal terms with men, in the political, social, economic and cultural life of their countries, hampers the growth of the prosperity of society and the family and makes more difficult the full development of the potentialities of women in the service of their countries and of humanity,”

Preamble to the UN Convention on the Elimination of All Forms of Discrimination Against Women



The Corporation Of The Municipality Of South Huron
By-Law # 81-2018

Being a by-law to authorize the execution of a Site Plan Agreement between the Municipality of South Huron and Hamather Motor Products in the Municipality of South Huron in the County of Huron

Whereas Section 5 of the *Municipal Act 2001, S.O. 2001*, as amended, provides that a municipal power shall be exercised by by-law unless the Municipality is specifically authorized to do otherwise; and

Whereas Section 41(4) of the Planning Act, R.S.O. 1990, as amended provides that the council of a municipality may exercise site plan control over certain properties,

Whereas Council of The Corporation of the Municipality of South Huron deems it expedient to enter into a Site Plan Agreement with Hamather Motor Products in the Municipality of South Huron in the County of Huron, pursuant to Section 41 of the *Planning Act*, as amended;

Now therefore be it resolved that the Council of The Corporation of the Municipality of South Huron enacts as follows:

1. That the Site Plan Agreement between the Municipality of South Huron and Hamather Motor Products, identified as Schedule "A" and attached hereto, forms an integral part of this by-law and is hereby adopted.
2. That South Huron Council hereby delegates the authority to approve revisions to the site plan agreement between the Municipality of South Huron and Hamather Motor Products to the Chief Administrative Officer.
3. That the Mayor and Clerk are hereby authorized to sign the Site Plan Agreement on behalf of the Municipality of South Huron.
4. That this By-Law takes effect upon the date of final passing.

Read a first and second time this 1st day of October, 2018.

Read a third time and passed this 1st day of October, 2018.

Maureen Cole, Mayor

Rebekah Msuya-Collison, Clerk

THIS AGREEMENT made in triplicate on the 1st day of October, 2018.

B E T W E E N:

THE CORPORATION OF THE MUNICIPALITY OF SOUTH HURON

(Hereinafter referred to as the "Municipality")

OF THE FIRST PART

– And –

HAMATHER MOTOR PRODUCTS

(Hereinafter referred to as the "Owner")

OF THE SECOND PART

WHEREAS the Owner is entering into this agreement with the Municipality dealing with the facilities, works and matters hereinafter mentioned and the provision and maintenance thereof by the Owner and any and all subsequent owners to the satisfaction of and at no expense to the Municipality, as a condition to the approval pursuant to Section 41 of the Planning Act, as amended, of site plans and drawings for a development (hereinafter called the "development") on the lands and premises of the Owner more particularly described in the Schedule "A" attached hereto in the Municipality of South Huron, in the County of Huron (the "property").

NOW THEREFORE WITNESSETH THAT in consideration of the covenants and provisions herein and for other good and valuable consideration now paid by the Municipality to the Owner (the receipt and sufficiency of which the Owner hereby acknowledges), the Municipality and the Owner covenant, agree and provide with each other that the Owner shall do and perform, at no expense to the Municipality (unless otherwise expressly provided herein), the following matters and things:

1. DRAWINGS AND CONSTRUCTION OF EXTERNAL WORKS:

The Owner shall submit to and have approved by the Municipality detailed design drawings of external road, sewer and other improvements, together with associated internal works. The Owner shall construct, prior to occupancy of any building (unless otherwise approved by the Municipality), at the Owner's expense and to the satisfaction of the Municipality, the following works:

- (a) water service;
- (b) fire protection;
- (c) sanitary sewer service;
- (d) roadways;
- (e) signage;
- (f) stormwater management;
- (g) lighting

2. STORMWATER MANAGEMENT:

The Owner shall undertake all work required to implement the Drainage Report prepared by AGM on July 31, 2018 and approved by the Municipal Engineer. The approved grading and servicing is incorporated into the attached Schedule "C".

The Owner agrees to maintain the property in such a manner that ensures compliance with the approved Stormwater Management Plan.

3. PARKING:

- (a) Parking Dimensions are sufficient and meet minimum zone provisions for size as proposed on the Site Plan incorporated as Schedule "B".
- (b)

4. LIGHTING FACILITIES:

All lighting of the site shall be oriented and its intensity controlled so as to prevent glare on adjacent roadways and adjacent properties to the satisfaction of the Municipality. Provide confirmation that lighting has been completed in accordance with the approved Site Plan, which forms Schedule “B” herein.

5. LANDSCAPING

The Owner shall landscape the site and thereafter maintain the same in general conformity with the approved Site Plan attached hereto as Schedule “B”, to the satisfaction of the Municipality of South Huron.

The Owner shall provide a landscape plan to the satisfaction of the Municipality of South Huron prior to implementation.

6. FIRE ROUTE DESIGNATION:

The Owner shall identify the fire route. Such fire route shall be clearly marked showing street allowances and vehicular accesses for the approval of the Fire Chief. Signs specifying that parking is prohibited in the designated fire route shall be displayed.

7. ‘AS CONSTRUCTED’ PREMISES:

The Owner shall provide for the Municipality’s records ‘as constructed’ drawings to the satisfaction of the Municipality for municipal services installed by the Owner which may, in the future, be assumed by the Municipality. These drawings shall be submitted in a satisfactory form prior to the release of any performance bond or security required by this agreement. The development shall be completed in accordance with Schedule “D” herein.

8. INSPECTION AND COMPLETION OF WORKS:

Where the Owner is required to construct certain works to be assumed by the Municipality or carry out work within a public highway, walkway or easement, the Owner shall have his Professional Engineer provide a qualified inspector acceptable to the Municipality to carry out on-site inspection of the works. Upon completion of the work and prior to requesting the Municipality to assume the works, the Owner shall supply to the Municipality, in a form acceptable, a certificate of the Owner’s Professional Engineer substantially in the following form:

CERTIFICATE OF COMPLETION OF WORKS

TO: The Corporation of the Municipality of South Huron

For good and valuable consideration now paid by the Corporation of the Municipality of South Huron (hereinafter called the “MUNICIPALITY”), the receipt and sufficiency of which I/we hereby acknowledge, I/we hereby certify that the municipal services constructed pursuant to the Development Agreement between the Municipality and (Owner’s Name) registered as No. _____ relating to municipal number Lot/Block No. _____ Plan No. _____ have been

- (a) inspected during construction in accordance with standard engineering practice; and
- (b) constructed in accordance with the plans and specifications approved by the Municipality.

Delivered under my/our hand and professional seal at South Huron, Ontario this _____ day of _____, 20_____.

Registered Professional Engineer

The Owner acknowledges and agrees that the form of the Certificate of Completion of Works required under this paragraph may vary depending on the development’s requirements.

9. SUBSURFACE DRAINAGE:

The Owner shall notify the Municipality, in writing, in the event that any existing sewer or drain is encountered during the progress of construction. The Owner shall have its Engineer investigate the matter and shall comply with the recommendations of the Owner's Engineer, as approved by the Municipality, with respect to the sewer or drain encountered. Such recommendations may include connecting the existing sewer to a new sewer being constructed or into another existing sewer, at no expense to the Municipality. The Owner shall also ensure that there is no interruption of any subsurface drainage flow because of construction on the site which would have an adverse effect on neighbouring properties. Should such an interruption occur, the Owner shall carry out any necessary remedial work to correct the problem as requested by the Municipality and to the satisfaction of the Municipality at no expense to the Municipality.

10. ABANDONED PRIVATE DRAIN CONNECTIONS:

The Owner acknowledges that any abandoned existing private drain connections shown on the site plans or encountered during construction are to be excavated at the street line and sealed to the satisfaction of the Municipality.

11. EXISTING PRIVATE DRAIN CONNECTIONS:

The Owner acknowledges that any existing private drain connections which are proposed for re-use are to be excavated at the street line and inspected and approved by the Municipality for such re-use.

12. UNDERTAKING OF CONSTRUCTION:

If no building permit is issued for the development within two (2) years of the date of the approval of the site plans and drawings pursuant to Section 41 of the Planning Act, (Ontario), as amended, or if a building permit is issued but, in the opinion of the Chief Building Official, the Owner does not seriously commence construction of the development within two (2) years from the date of the approval of the site plans and drawings pursuant to Section 41 of the Planning Act (Ontario), as amended, or if any building permit issued for this development is revoked at any time, the Municipality in its sole discretion may revoke its approval of the plans and drawings and may terminate the agreement by giving notice in writing and by registering a notice that the approval is revoked and the agreement is terminated.

13. WORK ACCORDING TO PLANS:

As the Owner has entered into this agreement as a condition precedent to the approval by the Municipality of site plans and drawings dealing with the facilities, works and matters mentioned herein, the Owner shall submit from time to time one or more plans and drawings as may be required pertaining to any of these facilities, works and matters including but not restricted to any plans or drawings specifically mentioned herein. Such plans and drawings as and when approved by the Municipality, whether before or after the date upon which this agreement is entered into, shall be treated as forming part of this agreement in the same manner and to the same extent as if such plans and drawings had been approved and actually attached to this agreement at the time that it is entered into. In all matters not herein provided for, the Owner shall develop his land and shall use the same in accordance with the applicable Zoning By-Law of the Municipality, as amended. The provisions of this agreement and any approved site plan or drawing pertaining to a facility, work or matter shall be construed and applied as complementary to each other but in the event of any conflict, the plan or drawing receiving the last approval shall govern. Without restricting the generality of this clause, the Owner shall develop his lands and shall construct works and maintain them in perpetuity in accordance with the approved Site Servicing Plan which is attached as Schedule "B".

14. WORK AT OWNER'S RISK:

All incidental matters including but not restricted to the removal and planting of trees; cutting, replacing and installing approaches; relocating utilities, pipes, poles, valves and equipment; resetting drains and manholes; and all other things required by this agreement or by the Municipality shall be carried out by the Owner at his own risk and expense. All work must be completed to the satisfaction of the Municipality and to the satisfaction of the owner of such utilities.

15. COMPLETION OF WORK:

All work required under this agreement, including but not restricted to asphalt surfacing, fencing, establishment of landscaping and as constructed drawings, completion of services and any other work set out herein, shall be completed or delivered, as the case may be, within a period of nine (9) months from the date of substantial completion of construction of the development as determined by the Chief Building Official. All such work shall be performed to the satisfaction of the Chief Building Official of the Municipality.

16. SECURITIES:

In order to ensure due performance of all work required under this agreement and to protect the Municipality in respect of its liability for holdback of costs under Section 17 of the Construction Lien Act (Ontario), as amended, for any work on municipal property, the Owner shall deposit with the Municipality prior to the issuance of a building permit, an irrevocable Letter of Credit from a chartered bank, issued in form and content satisfactory to the Municipality's Solicitor, in the amount of One Hundred Percent (100%) of the total securities as set out in Schedule "F".

All Letters of Credit shall be for a minimum guaranteed period of one (1) year or such longer time as the Municipality may decide. All Letters of Credit shall contain the following clause: "It is a condition of the Letter of Credit that it shall be deemed to be automatically extended without amendment from year to year from the present or any future expiration date thereof, unless at least thirty (30) days prior to the present or any future expiration date, we notify you in writing by registered mail that we elect not to consider this Letter of Credit to be renewable for any additional period." Unless each and every Letter of Credit is renewed as noted above, the Municipality shall have the absolute right to refuse to issue building permits and to prohibit occupancy, whether partially or fully completed, from the said date thirty (30) days prior to the expiration of that Letter of Credit.

16.1. SECURITY RELEASE

General securities outlined in Schedule "F" will be released upon the completion of all works, to the satisfaction of the Municipality of South Huron.

17. DEVELOPMENT CHARGES:

The Owner shall pay all development charges applicable to the development in accordance with the By-laws of the Municipality of South Huron.

18. MUNICIPALITY'S RIGHT TO ENTER:

The Municipality or any of its officers, servants or agents may, from time to time, at all reasonable times and upon producing proper identification, enter upon the Owner's lands and premises for the purposes of inspecting the facilities, works and matters to be provided and maintained under this agreement and for the purpose of providing or maintaining at the Owner's expense any facility, work or matter in default of the Owner providing or maintaining the same where such default has continued for fifteen (15) days or more. The Municipality, its officers, servants and agents shall not be liable to the Owner or any occupant of the lands and premises for any losses or damages of any kind whatsoever arising in any way from entry for such purposes. In the event of an emergency, the Municipality's right to enter under this provision shall not be limited to situations in which the default of the Owner has continued for more than fifteen (15) days.

19. ROAD ALLOWANCE INDEMNITY:

Except as otherwise expressly provided in this agreement, the right of the Owner to use and occupy any untravelled portions of road allowances shall, at all times, be at the will of the Municipality and the construction and maintenance of any and all curbs, pavements, plantings and other improvements or works thereon shall at all times be at the risk and expense of the Owner. The Owner shall indemnify and save harmless the Municipality and any of its officers, employees or servants from and against all actions, suits, claims, damages, demands, costs, including reasonable legal fees and disbursements, liabilities and any other claims which may be brought against or made upon the Municipality or any of its officers, employees or servants in consequence of the use and occupation of untraveled portions of road allowances by the Owner or the construction, maintenance or existence of curbs, pavements, plantings or other improvements of the Owner thereon. Any amounts owed by the Owner to the Municipality under this indemnity shall constitute a lien and charge upon the lands of the Owner and shall be collectible in like manner as municipal taxes. Without limiting the foregoing agreement to indemnify, the Municipality may, in case any such action, suit, claim or demand is brought or made against the Municipality or any of its officers, employees or servants, settle any such action, suit, claim or demand on such terms as the Municipality shall see fit, and the Owner shall thereupon forthwith pay to the Municipality the sum or sums so paid, together with such sum as shall represent the reasonable costs of the Municipality and its solicitor in defending or settling any such action, suit, claim or demand.

20. INSURANCE:

Prior to the issuance of any building permit and any commencement of work for the development, the Owner shall supply the Municipality with a certified copy of a comprehensive general liability insurance policy with limits in an amount and in a form acceptable to the Municipality. The minimum limits of such policies shall be \$5,000,000 all inclusive, but the Municipality shall have the right to set higher amounts. Such policy or policies shall be issued in the joint names of the Owner and the Municipality. The said insurance policy shall indemnify the Municipality from any loss arising from any claims for damages, injury or otherwise in connection with the work done by or on behalf of the Owner. Such insurance policy shall provide coverage for a period of at least one (1) year and shall continue until all the work required by the Owner under this Agreement is completed and, where applicable, assumed by the Municipality. The said insurance policy must also include a provision confirming that the insurance policy shall not be cancelled or materially amended without providing the Municipality with thirty (30) days' written notice of the insurer's intention to do so. The issuance of such a policy of insurance shall not be construed as relieving the Owner from responsibility for other or larger claims, if any, for which he may be held responsible.

21. GENERAL INDEMNITY:

The Owner shall indemnify and save harmless the Municipality and any of its officers, employees or servants from and against all actions, suits, claims, damages, demands, costs, including reasonable legal fees and disbursements, liabilities and any other claims which may be brought against or made upon the Municipality or any of its officers, employees or servants sustained or incurred by the Municipality or any of its officers, employees or servants as a result of the Municipality entering into this agreement with the Owner. Any amounts owed by the Owner to the Municipality under this indemnity shall constitute a lien and charge upon the lands of the Owner and shall be collectible in like manner as municipal taxes. Without limiting the foregoing agreement to indemnify, the Municipality may, in case any such action, suit, claim or demand is brought or made against the Municipality or any of its officers, employees or servants, settle any such action, suit, claim or demand on such terms as the Municipality shall see fit, and the Owner shall thereupon forthwith pay to the Municipality the sum or sums so paid, together with such sum as shall represent the reasonable costs of the Municipality and its solicitor in defending or settling any such action, suit, claim or demand.

22. BY-LAWS:

Notwithstanding any of the provisions of this agreement, the Owner shall be subject to all By-Laws of the Municipality. In the event of conflict between the provisions of this agreement and the provisions of any By-Law of the Municipality, the provisions of the By-Law prevail.

23. SUBSEQUENT OWNERS BOUND:

Subject to the provisions of the Registry Act and the Land Titles Act, the covenants, agreements, conditions and understandings therein contained on the part of the Owner shall be conditions running with the land described in Schedule "A" hereto and shall be binding upon the Owner and their heirs, estate trustees, administrators, successors and assigns, as the case may be, and subsequent owners and occupiers of the said lands from time to time (and "Owner", wherever used in this agreement, is intended and shall be construed to include such subsequent owners and occupiers).

24. SEPARATE COVENANTS:

All of the provisions of this agreement are and shall be construed and interpreted as covenants and agreements as though the words importing such covenants and agreements were used in each separate clause hereof. Should any covenant or provision of this agreement be adjudged unlawful or unenforceable, such covenant or provision shall be considered separate, distinct and severable from this agreement and the covenants and provisions of this agreement shall not be affected and shall remain fully enforceable.

25. ENFORCING PERFORMANCE OF REQUIREMENTS:

In addition to any remedy authorized or permitted by this agreement or by law, the Municipality, upon giving fifteen (15) days notice or forthwith in cases of emergency, may, in default of any matter or thing required to be done by the Owner under this agreement, do such matter or thing at the expense of the Owner and if the Municipality has incurred any expense, it may recover the expense by action, by performance bond or other security or by adding the said expenses to the tax roll and recovering same in like manner as municipal taxes. No proceeding by the Municipality under this clause and no waiver under any provision of this agreement shall prejudice the rights of the Municipality in respect of any subsequent default or any matter or thing required to be done by the Owner under this agreement. The rights of the Municipality may be enforced by any remedy authorized or permitted by the Agreement or By-Law and no such remedy shall be exclusive or dependent on any other remedy.

26. NUMBER AND GENDER:

Words importing the singular only shall include the plural; words importing the masculine only shall include the female and words importing a person shall include corporations.

27. NOTICES:

Any notice required or permitted to be given hereunder shall be in writing and shall be effectively given if delivered personally or sent by registered mail in the case of notice to the Municipality as follows:

Municipality of South Huron
P.O. Box 759
322 Main Street South
Exeter ON, N0M 1S6

And in the case of notice to the Owners, as follows:

Mr. Tim Hamather
70704 London Road
Exeter, ON N0M 1S1

Any notice so given shall be deemed conclusively to have been given and received when so personally delivered or on the third (3rd) business day following the sending thereof by registered mail.

28. REGISTRATION:

The Owner agrees that this document shall be registered against the title to the lands affected by it and that such registration shall be done by the Municipality. The cost of such registration and associated legal fees shall be the responsibility of the Owner.

The Owner further agrees that this agreement shall have priority over all mortgages that are registered against the property and the Owner hereby undertakes to deliver an agreement postponing those mortgages to this agreement and to register the same on title.

29. COSTS:

Any costs incurred by the Municipality for the review, implementation and administration of this agreement (including engineering, administrative costs and legal fees) shall be borne by the Owner.

IN WITNESS WHEREOF the Municipality and the Owner hereto have hereunto affixed their Corporate Seals duly attested by the hands of their proper officers in that behalf, the day and year first written above.

THE CORPORATION OF THE MUNICIPALITY OF
SOUTH HURON

Per: Maureen Cole, Mayor

Per: Rebekah Msuya-Collison, Clerk

We have authority to bind the Corporation.

SIGNED, SEALED AND DELIVERED
In the presence of

Hamather Motor Products

Per: Tim Hamather, Duly Authorized Officer

I have the authority to bind the Corporation.

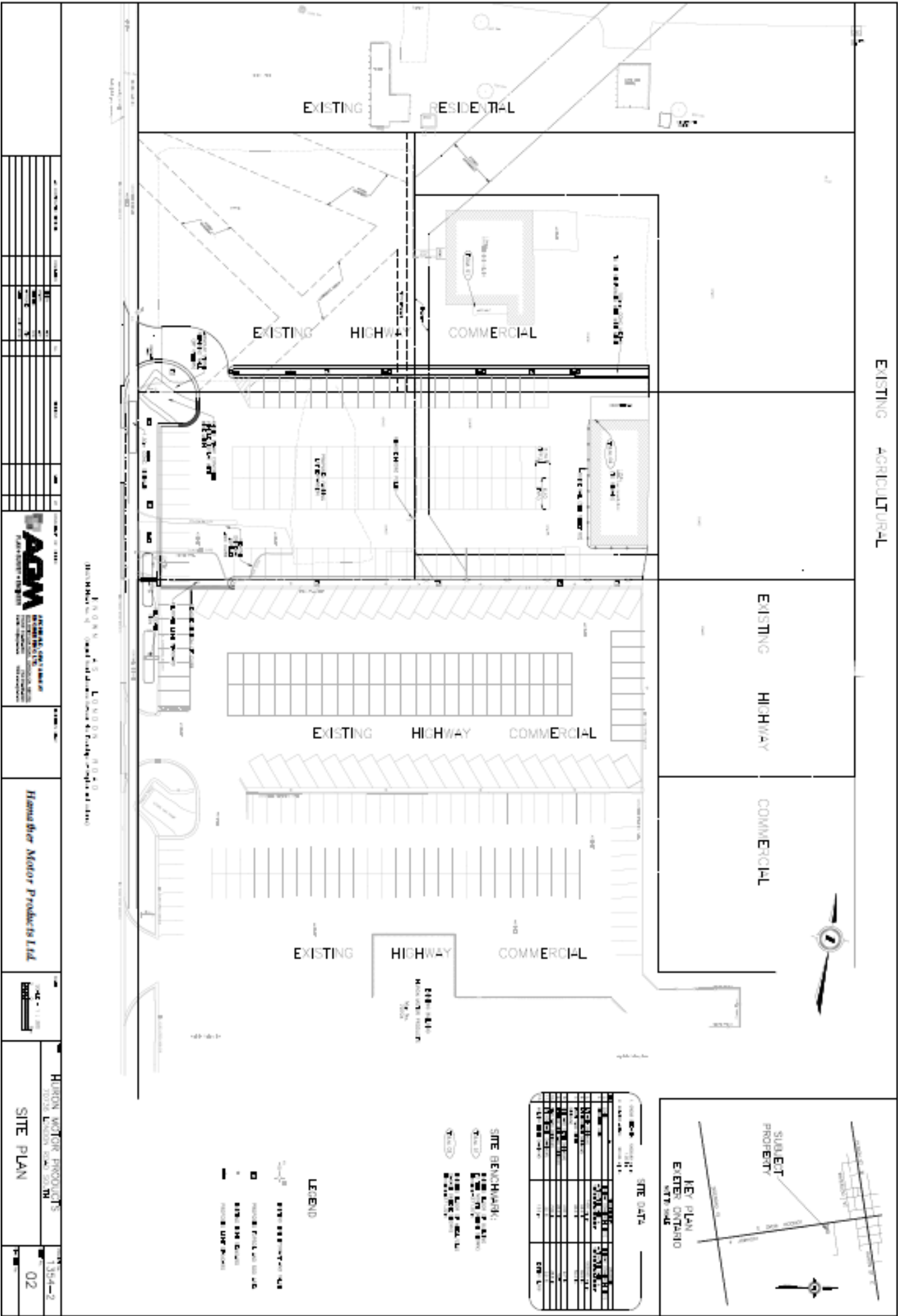
SCHEDULE “A”
LEGAL DESCRIPTION

Note: It is understood and agreed that this Schedule forms part of the Municipality’s Agreement.

70736 and 70740 London Road, Exeter, ON
Roll Number 010001038000000 and 010001039000000

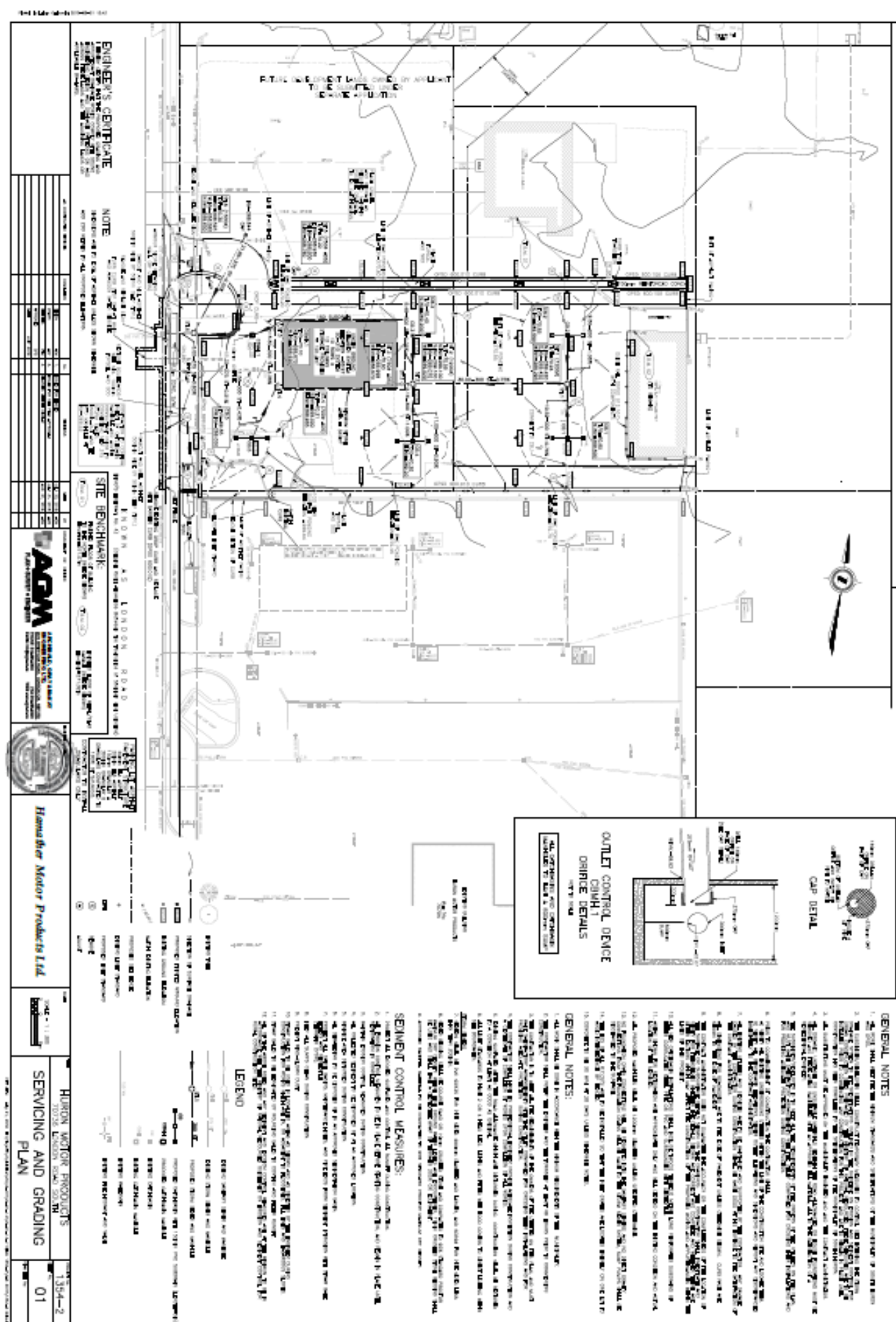
SCHEDULE “B”
SITE PLAN

Note: It is understood and agreed that this Schedule forms part of the Municipality’s Agreement.



SCHEDULE "C"
SITE GRADING AND DRAINAGE PLAN

Note: It is understood and agreed that this Schedule forms part of the Municipality's Agreement.



SCHEDULE “D”
SECURITY TO BE PROVIDED

Note: It is understood and agreed that this Schedule forms part of the Municipality’s Agreement.

ITEM	COST
Stormwater Management Plan/Storm Sewer Service	\$50,000
Sidewalks	\$2550
Roadways (Paving, Curbs, Gutter)	\$35,380
Lighting	\$10,500
Landscaping	\$5850
TOTAL	\$104,280

SCHEDULE “E”
DRAINAGE REPORT

Note: It is understood and agreed that this Schedule forms part of the Municipality’s Agreement.

HAMATHER MOTOR PRODUCTS INC.

70736 LONDON ROAD SOUTH

DRAINAGE REPORT

July 31, 2018



3514 White Oak Road, London, ON N6E 2Z9 t. 519.685.5300 f. 519.685.5303 e. info@agm.on.ca

www.agm.on.ca

1.0 INTRODUCTION

The enclosed report summarizes the proposed stormwater drainage strategy for the proposed development at 70736 London Road South (Hwy.#4), in Exeter. The 1.20 ha site is being partially developed as an expansion to Huron Motor Products. The proposed vehicle storage and display lot will occupy a 0.42 ha area (Figure 1). A reduced copy of the Site Servicing and Grading Plan is attached.

2.0 STORMWATER MANAGEMENT

Stormwater Management will be provided to control post development peak discharge from the site for the 5 year through 100 year storm events.

2.1. *Hydrologic Modeling*

Stormwater runoff was determined by hydrologic modeling using MIDUSS (Microcomputer Interactive Design of Urban Stormwater Systems). This program allows the user to test the impact on new and existing systems, utilizing accepted rainfall data to represent design storms of various durations and aid in the design of SWM facilities.

The City of Stratford IDF curve parameters were used for the rainfall data. The 3 hour, Chicago Storm Distribution model, with a time to peak ratio of 0.38, was used for determining post development peak flow rates. These flows were used to calculate storage requirements for meeting Stormwater Management targets.

The modeling output can be found in Appendix A.

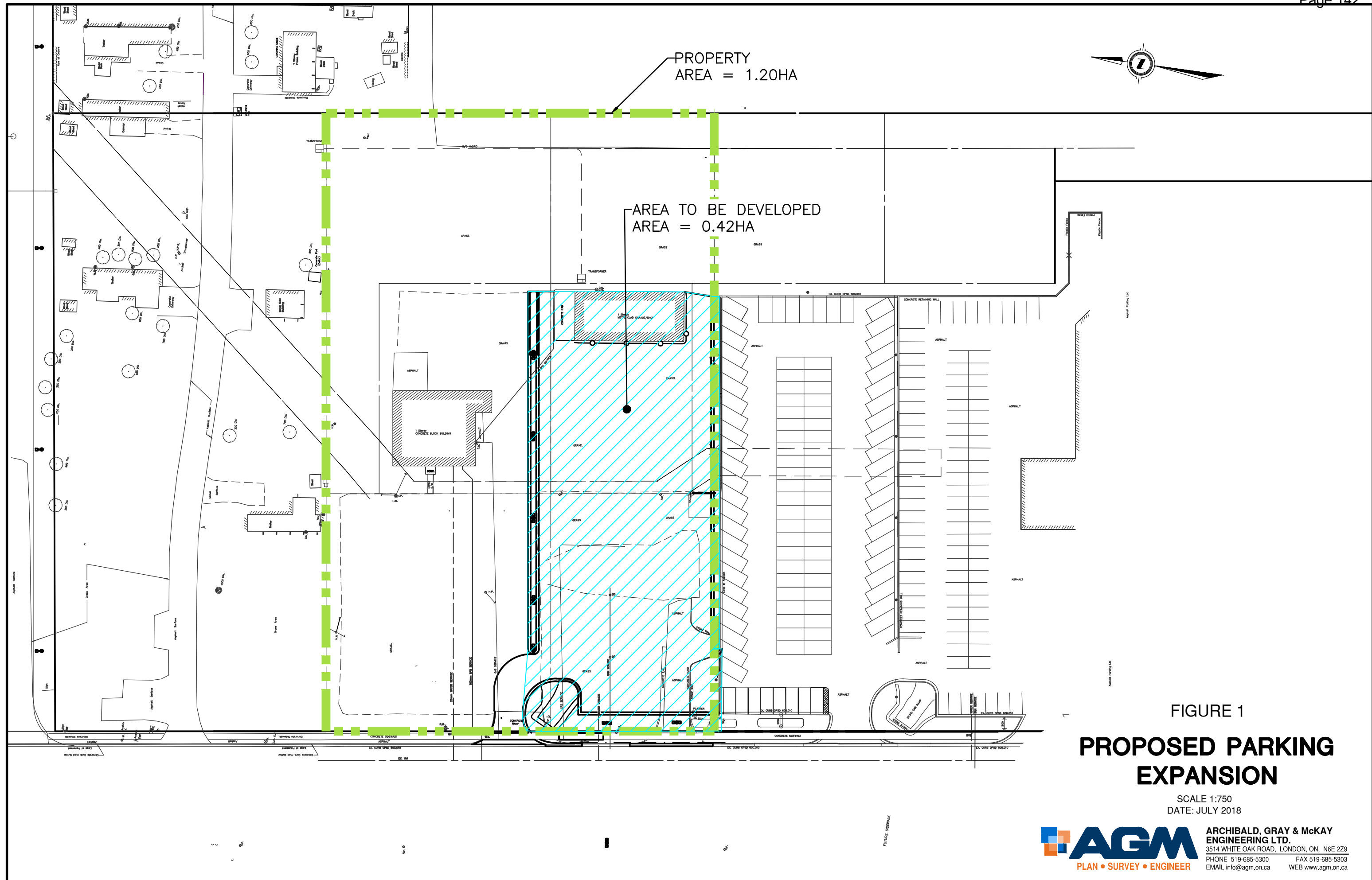
3.0 EXISTING DRAINAGE

To confirm the existing drainage patterns and outlets for the site, a topographic survey was completed. The total tributary drainage area to the location of the proposed expansion is 0.48 ha. Drainage for the area is in a westerly direction to London Road South with private catch basins draining the minor storm event to the fronting 450mm storm sewer (Figure 2).

Table 1 gives the predevelopment peak flows to London Road South.

Table 1 - Predevelopment Flows

Storm Event	Peak Flow (m ³ /s)
5 Year	0.030
100 Year	0.092



GENERAL NOTES

- ALL WORK SHALL MEET THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY OF SOUTH HURON AND OPSS.
- THE SUBDIVIDER/DEVELOPER SHALL CONSTRUCT TEMPORARY MEASURES TO CONTROL SILT ENTERING THE STORM DRAINAGE SYSTEM TO THE SPECIFICATIONS OUTLINED IN THE GUIDELINE ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES PREPARED BY THE MINISTRY OF NATURAL RESOURCES. THESE MEASURES ARE TO BE INSTALLED PRIOR TO COMMENCING ANY CONSTRUCTION FOR THIS PROJECT, AND ARE TO REMAIN IN PLACE UNTIL CONSTRUCTION HAS BEEN COMPLETED TO THE SPECIFICATIONS OF THE MUNICIPALITY OF SOUTH HURON.
- ALL SUBSTITUTIONS MUST BE APPROVED BY THE MUNICIPALITY ENGINEER AND AND THE CONTRACT ADMINISTRATOR.
- ALL ORGANIC, UNSTABLE OR UNSUITABLE MATERIALS BENEATH THE ROAD ALLOWANCES OR HOUSE FOUNDATIONS MUST BE REMOVED AND THESE AREAS BACKFILLED WITH AN APPROVED FILL MATERIAL, ALL TO THE SATISFACTION OF A GEOTECHNICAL ENGINEER.
- THE SUBDIVIDER/DEVELOPER IS TO MEET ALL THE REQUIREMENTS OF THE OWNERS OF THE UTILITIES ON THIS PLAN, AND MUST MAKE SATISFACTORY ARRANGEMENTS WITH THE UTILITY COMPANIES FOR CROSSING THEIR INSTALLATIONS AND FOR PROVIDING ADEQUATE PROTECTION DURING CONSTRUCTION.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL:
 - VERIFY ALL EXISTING UNDERGROUND UTILITIES WITHIN THE LIMIT OF THE CONSTRUCTION SITE AND LOCATE THEM.
 - VERIFY ALL BENCHMARK ELEVATIONS, SEWER OUTLET ELEVATIONS AND DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE CONTRACT ADMINISTRATOR.
- ALL EXISTING UTILITIES AND SERVICES ARE TO BE MAINTAINED AND SUPPORTED BY THE CONTRACTOR. ANY DAMAGE CAUSED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE MADE GOOD AT HIS EXPENSE TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- ALL DIMENSIONS FOR ROADWORKS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN. CURB RADII ARE SHOWN TO THE EDGE OF PAVEMENT.
- THE CONTRACT ADMINISTRATOR DOES NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF THE LOCATION OF THE SURFACE OR SUBSURFACE DETAILS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL INVESTIGATE AND VERIFY FOR THEMSELVES WHETHER THE DETAILS SHOWN ARE CORRECT AND COMPLETE AND WHETHER THERE ARE OTHER FACTORS WHICH MAY AFFECT THE CONSTRUCTION OF THE PROPOSED WORKS AND APPURTENANCES WITHIN THE LIMITS OF THIS PROJECT.
- ALL NEW CATCHBASIN INSTALLATIONS SHALL INCLUDE TWO(2) THREE(3) METRE LONG PERFORATED SUBDRAINS OF EITHER CORRUGATED STEEL PIPE OR PVC AND SURROUNDED WITH GEOTEXTILE.
- AREAS SHOWN FOR RESTORATION ARE APPROXIMATE ONLY AND WILL DEPEND ON THE EXISTING CONDITION AND ACTUAL LOCATION OF THE SERVICES.
- ALL PROPOSED MANHOLES SHALL BE 1200mm DIAMETER UNLESS SPECIFIED OTHERWISE.
- NO FOUNDATION DRAIN CONNECTIONS WILL BE PERMITTED INTO THE SANITARY SEWERS AND NO DIRECT GRAVITY CONNECTIONS FROM THE FOUNDATION DRAINS WILL BE MADE TO THE STORM SEWER SYSTEM, SUMP PUMPS SHALL BE DISCHARGED TO THE SURFACE.
- THE LIDS OF ALL R.Y.CB'S ARE TO BE INSTALLED SO THAT THE INLET GRATES ARE LOCATED ENTIRELY ON ONE LOT TO AVOID INTERFERENCE BY FENCES.
- CONCRETE TO BE 30 MPa AT 28 DAYS UNLESS OTHERWISE NOTED.

GENERAL NOTES:

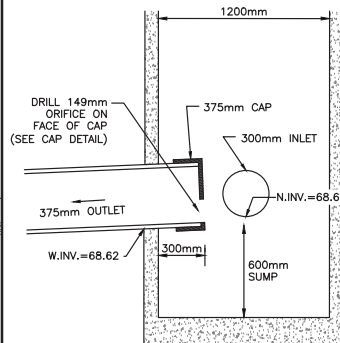
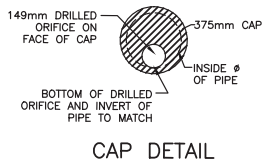
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE MUNICIPALITY.
 - THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE TOWNSHIP AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
 - THE CONTRACTOR IS TO MEET ALL THE REQUIREMENTS OF THE OWNERS OF THE UTILITIES ON THIS PLAN, AND MUST MAKE SATISFACTORY ARRANGEMENTS WITH THE UTILITY COMPANIES FOR CROSSING THEIR INSTALLATIONS AND FOR PROVIDING ADEQUATE PROTECTION DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL HAVE ITS PROFESSIONAL ENGINEER PROVIDE ADEQUATE INSPECTION DURING CONSTRUCTION AND A CERTIFICATE OF COMPLETION OF WORKS UPON COMPLETION OF ALL WORKS.
 - EXISTING SURFACES WITHIN THE ROAD ALLOWANCE WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION AT LEAST AS GOOD AS ORIGINAL.
 - ALL LIGHT STANDARDS TO HAVE 2 OR 4 HEAD L.E.D. LIGHTS AND FITTED WITH HOOD COVERS TO DIRECT LIGHTING WITHIN SITE BOUNDARIES.
- STORM SEWERS**
- SEWERS SHALL BE PVC SDR35 FOR PIPE SIZES 200mm DIAMETER AND LARGER, AND SDR28 FOR PIPE SIZES LESS THAN 200mm.
 - SEWER BEDDING SHALL BE COURSE SAND OR 19mm CRUSHED STONE AND COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY. WHERE HIGH GROUND WATER LEVELS ARE ENCOUNTERED, 19mm CRUSHED STONE BEDDING SHALL BE USED AND SHALL HAVE A GEOTEXTILE WRAP OF TERRAFIX 200R OR EQUIVALENT.
 - APPROVED BACKFILL MATERIAL TO BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.

SEDIMENT CONTROL MEASURES:

- PROTECT ALL EXPOSED SURFACES AND CONTROL ALL RUNOFF DURING CONSTRUCTION.
- ALL EROSION CONTROL MEASURES TO BE IN PLACE BEFORE STARTING CONSTRUCTION, AND REMAIN IN PLACE UNTIL RESTORATION IS COMPLETE.
- MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION.
- ALL COLLECTED SEDIMENT TO BE DISPOSED OF AT AN APPROVED LOCATION.
- MINIMIZE AREA DISTURBED DURING CONSTRUCTION.
- ALL DEWATERING TO BE DISPOSED OF IN AN APPROVED SEDIMENTATION BASIN.
- PROTECT ALL CATCH BASINS, MAINTENANCE HOLES, AND PIPE ENDS FROM SEDIMENT INTRUSION WITH STRAW BALE FILTERS AND GEOTEXTILE (TERRAFIX 270R).
- KEEP ALL SUMPS CLEAN DURING CONSTRUCTION.
- PREVENT WIND-BLOWN DUST.
- STRAW BALES TO BE USED IN LOCALIZED AREAS AS SHOWN AND AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION FOR WORKS WHICH ARE IN, OR ADJACENT TO FLOODLINES, FILL LINES AND HAZARDOUS SLOPES.
- STRAW BALES TO BE TERMINATED BY ROUNDING BALES TO CONTAIN AND FILTER RUNOFF.
- ALL OF THE ABOVE NOTES AND ANY SEDIMENT AND EROSION CONTROL MEASURES ARE AT THE MINIMUM TO BE IN ACCORDANCE WITH THE MINISTRY OF NATURAL RESOURCES GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR RURAL CONSTRUCTION SITES.

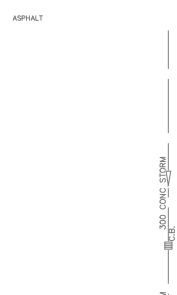
LEGEND

- | | | |
|--|-----------|---|
| | 200 SA | EXISTING SANITARY SEWER AND MANHOLE |
| | 375 ST | EXISTING STORM SEWER AND MANHOLE |
| | 300 ST | PROPOSED STORM SEWER AND MANHOLE |
| | CB | PROPOSED CATCHBASIN WITH 150mm PVC SUBDRAIN (LENGTH=3m) |
| | CBMH | PROPOSED CATCHBASIN MANHOLE |
| | CB | EXISTING CATCHBASIN |
| | CBMH | EXISTING CATCHBASIN MANHOLE |
| | 150 WM | EXISTING WATERMAIN |
| | FW | EXISTING FIRE HYDRANT AND VALVE |
| | | EXISTING TREE |
| | | DIRECTION OF SURFACE DRAINAGE |
| | • 00.00 | PROPOSED FINISHED GROUND ELEVATION |
| | • 00.00 | EXISTING GROUND ELEVATION |
| | x (00.00) | MATCH EXISTING ELEVATION |
| | | PROPOSED SILT FENCE |
| | | EXISTING LIGHT STANDARD |
| | | PROPOSED LIGHT STANDARD |
| | (R) | REMOVE |
| | (A) | ADJUST |



ALL CATCHBASINS AND CATCHBASIN
MANHOLES TO HAVE A 600mm SUMP

EXISTING BUILDING
HURON MOTOR PRODUCTS
Mun No.
70704



EXISTING TREE

DIRECTION OF SURFACE DRAINAGE

PROPOSED FINISHED GROUND ELEVATION

EXISTING GROUND ELEVATION

MATCH EXISTING ELEVATION

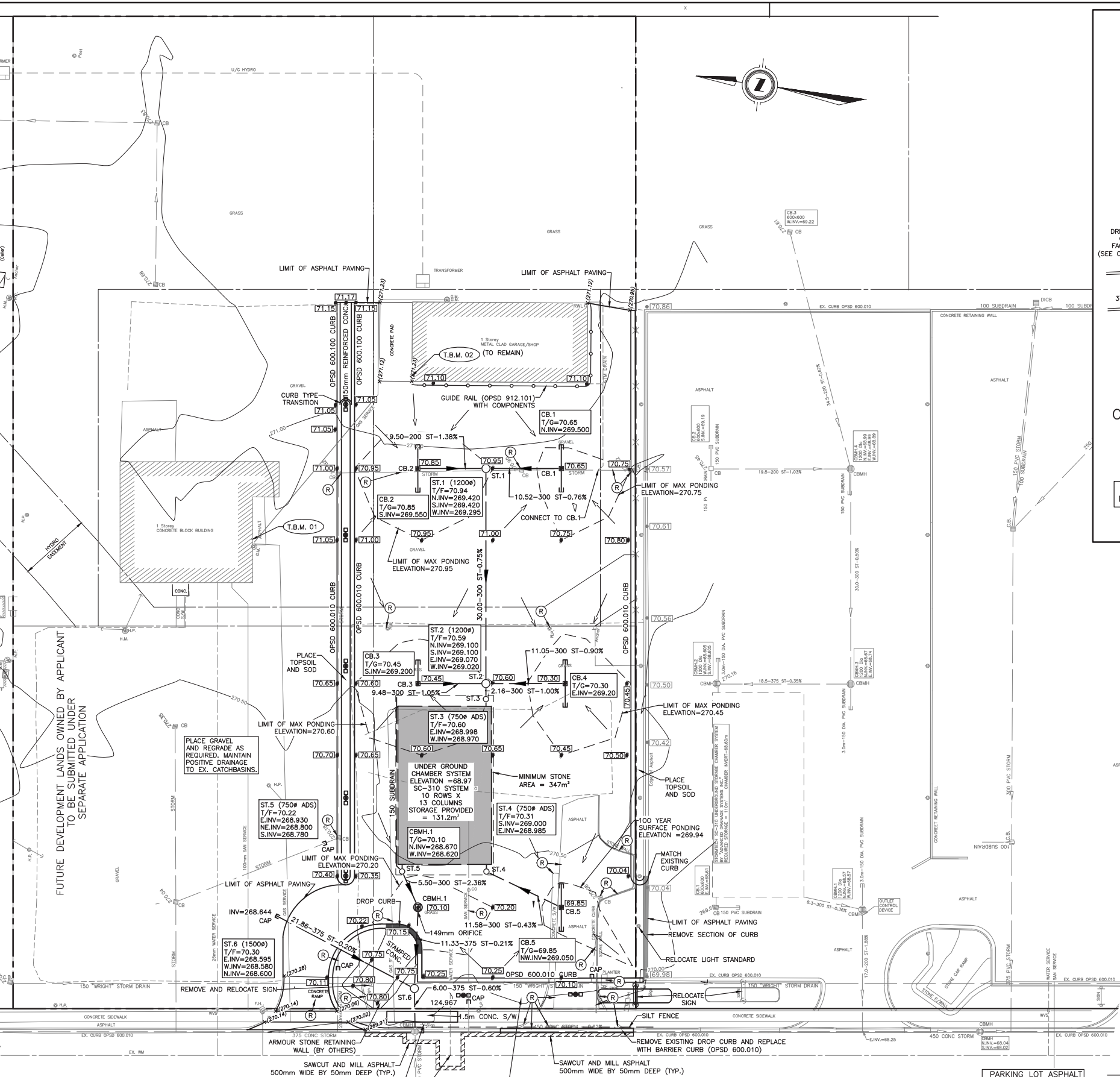
PROPOSED SILT FENCE

EXISTING LIGHT STANDARD

PROPOSED LIGHT STANDARD

REMOVE

ADJUST



ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THE PROPOSED GRADING AND APPURTENANT DRAINAGE WORKS COMPLY WITH SOUND ENGINEERING DESIGN AND DRAINAGE PATTERNS ON AND ACROSS THESE LANDS AND THE ADJOINING LANDS OR APPLICABLE BY-LAWS.

NOTE:

DIMENSIONS ARE TO EDGE OF ASPHALT UNLESS SHOWN OTHERWISE.
ADD 200 METRES TO ALL PROPOSED ELEVATIONS.

KNOWN AS LONDON ROAD
(KING'S HIGHWAY No. 4) (Original Road Allowance Between the Townships of Stephen and Usborne)

SITE BENCHMARK:

(T.B.M. 01) FINISHED FLOOR OF BUILDING TO THE NORTH (WHERE SHOWN) Elevation=271.07m
(T.B.M. 02) FINISHED FLOOR OF METAL/CLAD GARAGE (WHERE SHOWN) Elevation=271.32m

PARKING LOT ASPHALT PAVEMENT STRUCTURE
40mm HL4 ASPHALT
50mm HL8 ASPHALT
150mm GRANULAR A
300mm GRANULAR B
GRANULARS COMPACTED TO 100% OF S.P.M.D.D.
CONTRACTOR TO INSTALL GRANULARS ONLY



ARCHIBALD, GRAY & McKAY
ENGINEERING LTD.
3514 WHITE OAK ROAD, LONDON, ON, N6E 2Z9
PHONE 519-685-5300 FAX 519-685-5303
EMAIL info@agm.on.ca WEB www.agm.on.ca



Hamather Motor Products Ltd.

SCALE
1 : 300
3 0 6m

HURON MOTOR PRODUCTS
70736 LONDON ROAD SOUTH

SERVICING AND GRADING
PLAN

PROJECT No.

1354-2

SHEET No.

01

PLAN FILE No.

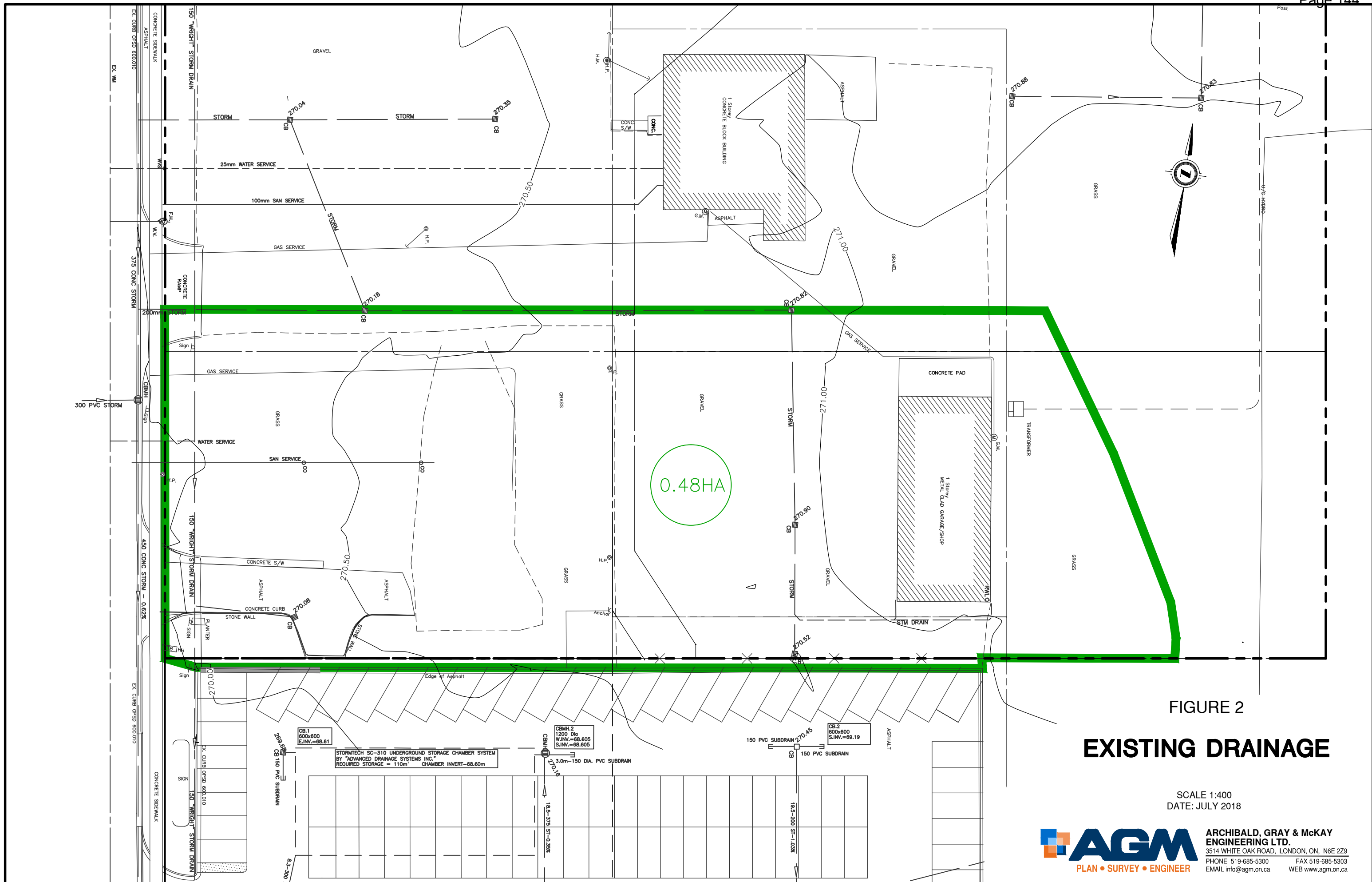


FIGURE 2

EXISTING DRAINAGE

SCALE 1:400
DATE: JULY 2018



**ARCHIBALD, GRAY & MCKAY
ENGINEERING LTD.**
3514 WHITE OAK ROAD, LONDON, ON, N6E 2Z9
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EMAIL info@agm.on.ca WEB www.agm.on.ca

4.0 PROPOSED DRAINAGE

The development of the site will increase the amount of hard surface, resulting in a 67% increase in imperviousness within the development area.

Post development drainage will be directed toward the onsite storm system which will consist of a number of catchbasins discharging through onsite storm sewers to an underground chamber, which will provide storage to limit post development peak discharge. The shop drawings for the chamber are included in Appendix B.

A 149mm diameter orifice located on the 375mm outlet pipe in catchbasin manhole CBMH.1 will control discharge to the existing storm sewer on London Road South. The orifice has been sized to limit the sewer discharge from the site to the predevelopment levels for the 5 to 100 year storm events

Post-Development peak flows and required storage volumes to control to the Pre Development peak flow rates are shown in Table 2.

Table 2 - Post Development Flows

Storm Event	Peak Flow (m ³ /s)	Storage (m ³)
5 Year	0.030	57.0
100 Year	0.054	137.5

Site storage is comprised of the underground storage system (131.2m³), upstream pipes and manholes (6.1m³), as well as surface storage (4.0m³). These combined elements will provide the required storage for all storm events up to and including the 100 year storm. Additional storage is available within catchbasins and the respective catchbasin leads on site.

5.0 SUMMARY

Site storage has been provided to control post development peak discharge to pre development levels.

Archibald, Gray & McKay Engineering Ltd.



Lukas Grabowski
Engineer-in-Training



Steve Brown, P.Eng.
Engineering Design Manager

Appendix A

Hydrologic Modeling

Pre Development

```

"      MI DUSS Output ----->"
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"      MI DUSS created                      Friday, September 23, 2005"
"      10  Units used:                      ie METRIC"
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"      Company"
"      Date & Time last used:                6/25/2018 at 2:08:09 PM"
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"      180.000 Max. Storm length"
"      1500.000 Max. Hydrograph"
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"      1 Chicago storm"
"      860.460 Coefficient A"
"      7.382 Constant B"
"      0.759 Exponent C"
"      0.380 Fraction R"
"      180.000 Duration"
"      1.000 Time step multiplier"
"      Maximum intensity                    118.338 mm/hr"
"      Total depth                          48.624 mm"
"      6 005hyd Hydrograph extension used in this file"
" 33  CATCHMENT 101"
"      1 Tri angular SCS"
"      3 Specify values"
"      1 SCS method"
"      101 No description"
"      16.000 % Impervious"
"      0.484 Total Area"
"      77.000 Flow length"
"      1.300 Overland Slope"
"      0.407 Pervious Area"
"      77.000 Pervious length"
"      1.300 Pervious slope"
"      0.077 Impervious Area"
"      77.000 Impervious length"
"      1.300 Impervious slope"
"      0.250 Pervious Manning 'n'"
"      88.000 Pervious SCS Curve No."
"      0.526 Pervious Runoff coefficient"
"      0.100 Pervious Ia/S coefficient"
"      3.464 Pervious Initial abstraction"
"      0.015 Impervious Manning 'n'"
"      98.000 Impervious SCS Curve No."
"      0.893 Impervious Runoff coefficient"
"      0.100 Impervious Ia/S coefficient"
"      0.518 Impervious Initial abstraction"
"      0.030 0.000 0.000 0.000 c.m/sec"
"      Catchment 101 Pervious Impervious Total Area "
"      Surface Area 0.407 0.077 0.484 hectare"
"      Time of concentration 29.905 4.254 23.681 minutes"
"      Time to Centroid 132.907 92.343 123.065 minutes"
"      Rainfall depth 48.624 48.624 48.624 mm"
"      Rainfall volume 197.69 37.65 235.34 c.m"
"      Rainfall losses 23.080 5.661 20.293 mm"
"      Runoff depth 25.544 42.963 28.331 mm"
"      Runoff volume 103.85 33.27 137.12 c.m"
"      Runoff coefficient 0.526 0.893 0.585 "
"      Maximum flow 0.026 0.020 0.030 c.m/sec"
" 40  HYDROGRAPH Add Runoff "
"      4 Add Runoff "
"      0.030 0.030 0.000 0.000"

```

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"      MI DUSS Output ----->"
"      MI DUSS version                      Version 2.07 rev. 387"
"      MI DUSS created                      Friday, September 23, 2005"
"      10  Units used:                      ie METRIC"
"      Job folder:                          F:\Projects\U\usborne\US\US-01\US-01-14\
"      US-01-14-11\ENG 1354-2\ENG\SWM\MI DUSS\Stormtech Model "
"      Output filename:                    100yearPre-2.out"
"      License name:                      Igrabowski "
"      Company"
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" 31  TIME PARAMETERS"
"      5.000 Time Step"
"      180.000 Max. Storm length"
"      1500.000 Max. Hydrograph"
" 32  STORM Chicago storm"
"      1 Chicago storm"
"      1717.700 Coefficient A"
"      12.472 Constant B"
"      0.764 Exponent C"
"      0.380 Fraction R"
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"      1.000 Time step multiplier"
"      Maximum intensity 181.635 mm/hr"
"      Total depth 92.643 mm"
"      6 100hyd Hydrograph extension used in this file"
" 33  CATCHMENT 101"
"      1 Tri angular SCS"
"      3 Specify values"
"      1 SCS method"
"      101 No description"
"      16.000 % Impervious"
"      0.484 Total Area"
"      77.000 Flow length"
"      1.300 Overland Slope"
"      0.407 Pervious Area"
"      77.000 Pervious length"
"      1.300 Pervious slope"
"      0.077 Impervious Area"
"      77.000 Impervious length"
"      1.300 Impervious slope"
"      0.250 Pervious Manning 'n'"
"      88.000 Pervious SCS Curve No."
"      0.693 Pervious Runoff coefficient"
"      0.100 Pervious Ia/S coefficient"
"      3.464 Pervious Initial abstraction"
"      0.015 Impervious Manning 'n'"
"      98.000 Impervious SCS Curve No."
"      0.941 Impervious Runoff coefficient"
"      0.100 Impervious Ia/S coefficient"
"      0.518 Impervious Initial abstraction"
"      0.092 0.000 0.000 0.000 c.m/sec"
"      Catchment 101 Pervious Impervious Total Area "
"      Surface Area 0.407 0.077 0.484 hectare"
"      Time of concentration 21.733 3.528 18.048 minutes"
"      Time to Centroid 119.962 90.300 113.959 minutes"
"      Rainfall depth 92.643 92.643 92.643 mm"
"      Rainfall volume 376.65 71.74 448.39 c.m"
"      Rainfall losses 28.484 7.165 25.073 mm"
"      Runoff depth 64.159 85.478 67.570 mm"
"      Runoff volume 260.84 66.19 327.04 c.m"
"      Runoff coefficient 0.693 0.941 0.733 "
"      Maximum flow 0.081 0.034 0.092 c.m/sec"
" 40  HYDROGRAPH Add Runoff "
"      4 Add Runoff "
"      0.092 0.092 0.000 0.000"

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Post Development

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"      MI DUSS Output ----->"
"      MI DUSS version                      Version 2.07 rev. 387"
"      MI DUSS created                      Friday, September 23, 2005"
"      10  Units used:                      ie METRIC"
"      Job folder:                          F:\Projects\U\usborne\US\US-01\US-01-14\
"      US-01-14-11\ENG 1354-2\ENG\SWM\MI DUSS\Stormtech Model "
"      Output filename:                     5 year post-final-revised-3.out"
"      License name:                        Igrabowski "
"      Company"
"      Date & Time last used:                6/27/2018 at 2:10:05 PM"
" 31  TIME PARAMETERS"
"      5.000 Time Step"
"      180.000 Max. Storm length"
"      1500.000 Max. Hydrograph"
" 32  STORM Chicago storm"
"      1 Chicago storm"
"      860.460 Coefficient A"
"      7.382 Constant B"
"      0.759 Exponent C"
"      0.380 Fraction R"
"      180.000 Duration"
"      1.000 Time step multiplier"
"      Maximum intensity 118.338 mm/hr"
"      Total depth 48.624 mm"
"      6 005hyd Hydrograph extension used in this file"
" 33  CATCHMENT 1"
"      1 Tri angular SCS"
"      1 Equal length"
"      1 SCS method"
"      1 Sump #1"
"      100.000 % Impervious"
"      0.056 Total Area"
"      14.000 Flow length"
"      2.000 Overland Slope"
"      0.000 Pervious Area"
"      14.000 Pervious length"
"      2.000 Pervious slope"
"      0.056 Impervious Area"
"      14.000 Impervious length"
"      2.000 Impervious slope"
"      0.250 Pervious Manning 'n'"
"      83.000 Pervious SCS Curve No."
"      0.406 Pervious Runoff coefficient"
"      0.100 Pervious Ia/S coefficient"
"      5.202 Pervious Initial abstraction"
"      0.015 Impervious Manning 'n'"
"      98.000 Impervious SCS Curve No."
"      0.893 Impervious Runoff coefficient"
"      0.100 Impervious Ia/S coefficient"
"      0.518 Impervious Initial abstraction"
"      0.014 0.000 0.000 0.000 c.m/sec"
"      Catchment 1 Pervious Impervious Total Area "
"      Surface Area 0.000 0.056 0.056 hectare"
"      Time of concentration 10.893 1.344 1.344 minutes"
"      Time to Centroid 110.712 87.966 87.966 minutes"
"      Rainfall depth 48.624 48.624 48.624 mm"
"      Rainfall volume 0.00 27.23 27.23 c.m"
"      Rainfall losses 28.907 6.069 6.069 mm"
"      Runoff depth 19.717 42.555 42.555 mm"
"      Runoff volume 0.00 23.83 23.83 c.m"
"      Runoff coefficient 0.406 0.893 0.893 "
"      Maximum flow 0.000 0.014 0.014 c.m/sec"
" 40  HYDROGRAPH Add Runoff "
"      4 Add Runoff "
"      0.014 0.014 0.000 0.000"
" 52  CHANNEL DESIGN"
"      0.014 Current peak flow c.m/sec"
"      0.015 Manning 'n'"
"      0. Cross-section type: 0=trapezoidal; 1=general "
"      0.000 Basewidth metre"
"      50.000 Left bank slope"
"      50.000 Right bank slope"
"      1.000 Channel depth metre"
"      0.500 Gradient %"
"      Depth of flow 0.031 metre"
"      Velocity 0.293 m/sec"
"      Channel capacity 148.463 c.m/sec"
"      Critical depth 0.028 metre"
" 53  ROUTE Zero Route"
"      0.00 Zero Route Reach length (metre)"
"      0.014 0.014 0.014 0.000 c.m/sec"

```

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" 40      HYDROGRAPH   Combine   113"
"          6   Combine "
"          113  Node #"
"          TO ADS UNIT"
"          Maximum flow           0.014   c. m/sec"
"          Hydrograph volume      23.831   c. m"
"          0.014   0.014   0.014   0.014"
" 40      HYDROGRAPH Start - New Tributary"
"          2   Start - New Tributary"
"          0.014   0.000   0.014   0.014"
" 33      CATCHMENT 2"
"          1   Triangular SCS"
"          3   Specify values"
"          1   SCS method"
"          2   sump #2"
"          54.500 % Impervious"
"          0.129 Total Area"
"          28.000 Flow Length"
"          2.000 Overland Slope"
"          0.059 Pervious Area"
"          28.000 Pervious Length"
"          2.000 Pervious slope"
"          0.070 Impervious Area"
"          15.500 Impervious Length"
"          2.000 Impervious slope"
"          0.250 Pervious Manning 'n'"
"          83.000 Pervious SCS Curve No."
"          0.406 Pervious Runoff coefficient"
"          0.100 Pervious Ia/S coefficient"
"          5.202 Pervious Initial abstraction"
"          0.015 Impervious Manning 'n'"
"          98.000 Impervious SCS Curve No."
"          0.893 Impervious Runoff coefficient"
"          0.100 Impervious Ia/S coefficient"
"          0.518 Impervious Initial abstraction"
"          0.018   0.000   0.014   0.014 c. m/sec"
"          Catchment 2   Pervious   Impervious   Total Area "
"          Surface Area   0.059   0.070   0.129   hectare"
"          Time of concentration 16.510   1.429   5.629   minutes"
"          Time to Centroid 117.564   88.132   96.328   minutes"
"          Rainfall depth 48.624   48.624   48.624   mm"
"          Rainfall volume 28.54   34.19   62.73   c. m"
"          Rainfall losses 28.905   5.970   16.405   mm"
"          Runoff depth 19.719   42.655   32.219   mm"
"          Runoff volume 11.57   29.99   41.56   c. m"
"          Runoff coefficient 0.406   0.893   0.672   "
"          Maximum flow 0.004   0.018   0.018   c. m/sec"
" 40      HYDROGRAPH Add Runoff "
"          4   Add Runoff "
"          0.018   0.018   0.014   0.014"
" 52      CHANNEL DESIGN"
"          0.018 Current peak flow   c. m/sec"
"          0.015 Manning 'n'"
"          0. Cross-section type: 0=trapezoidal; 1=general"
"          0.000 Basewidth   metre"
"          50.000 Left bank slope"
"          50.000 Right bank slope"
"          1.000 Channel depth   metre"
"          0.500 Gradient   %"
"          Depth of flow           0.034   metre"
"          Velocity                 0.312   m/sec"
"          Channel capacity        148.463   c. m/sec"
"          Critical depth          0.031   metre"
" 53      ROUTE Zero Route"
"          0.00 Zero Route Reach Length (metre)"
"          0.018   0.018   0.018   0.014 c. m/sec"
" 40      HYDROGRAPH   Combine   113"
"          6   Combine "
"          113  Node #"
"          TO ADS UNIT"
"          Maximum flow           0.033   c. m/sec"
"          Hydrograph volume      65.393   c. m"
"          0.018   0.018   0.018   0.033"
" 40      HYDROGRAPH Start - New Tributary"
"          2   Start - New Tributary"
"          0.018   0.000   0.018   0.033"
" 33      CATCHMENT 3"
"          1   Triangular SCS"
"          1   Equal Length"
"          1   SCS method"
"          3   sump #3"

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"      100.000  % Impervious"
"      0.062   Total Area"
"      22.360  Flow Length"
"      2.000   Overland Slope"
"      0.000   Pervious Area"
"      22.360  Pervious Length"
"      2.000   Pervious slope"
"      0.062   Impervious Area"
"      22.360  Impervious Length"
"      2.000   Impervious slope"
"      0.250   Pervious Manning 'n'"
"      83.000   Pervious SCS Curve No."
"      0.406   Pervious Runoff coefficient"
"      0.100   Pervious Ia/S coefficient"
"      5.202   Pervious Initial abstraction"
"      0.015   Impervious Manning 'n'"
"      98.000   Impervious SCS Curve No."
"      0.893   Impervious Runoff coefficient"
"      0.100   Impervious Ia/S coefficient"
"      0.518   Impervious Initial abstraction"
"              0.015   0.000   0.018   0.033 c.m/sec"
"      Catchment 3      Pervious   Impervious   Total Area "
"      Surface Area      0.000      0.062      0.062      hectare"
"      Time of concentration 14.426      1.780      1.780      minutes"
"      Time to Centroid 115.010      88.668      88.668      minutes"
"      Rainfall depth 48.624      48.624      48.624      mm"
"      Rainfall volume 0.00      30.15      30.15      c.m"
"      Rainfall losses 28.884      5.815      5.815      mm"
"      Runoff depth 19.741      42.809      42.809      mm"
"      Runoff volume 0.00      26.54      26.54      c.m"
"      Runoff coefficient 0.406      0.893      0.893      "
"      Maximum flow 0.000      0.015      0.015      c.m/sec"
" 40      HYDROGRAPH Add Runoff "
"      4      Add Runoff "
"              0.015   0.015   0.018   0.033"
" 52      CHANNEL DESIGN"
"      0.015   Current peak flow c.m/sec"
"      0.015   Manning 'n'"
"      0.      Cross-section type: 0=trapezoidal; 1=general"
"      0.000   Basewidth metre"
"      50.000   Left bank slope"
"      50.000   Right bank slope"
"      1.000   Channel depth metre"
"      0.500   Gradient %"
"      Depth of flow      0.032   metre"
"      Velocity      0.298   m/sec"
"      Channel capacity 148.463 c.m/sec"
"      Critical depth 0.028   metre"
" 53      ROUTE Zero Route"
"      0.00   Zero Route Reach Length (metre)"
"              0.015   0.015   0.015   0.033 c.m/sec"
" 40      HYDROGRAPH Combine 113"
"      6      Combine "
"      113     Node #"
"      TO ADS UNIT"
"      Maximum flow      0.048   c.m/sec"
"      Hydrograph volume 91.935   c.m"
"              0.015   0.015   0.015   0.048"
" 40      HYDROGRAPH Start - New Tributary"
"      2      Start - New Tributary"
"              0.015   0.000   0.015   0.048"
" 33      CATCHMENT 4"
"      1      Triangular SCS"
"      1      Equal Length"
"      1      SCS method"
"      4      sump #4"
"      100.000  % Impervious"
"      0.060   Total Area"
"      22.130  Flow Length"
"      2.000   Overland Slope"
"      0.000   Pervious Area"
"      22.130  Pervious Length"
"      2.000   Pervious slope"
"      0.060   Impervious Area"
"      22.130  Impervious Length"
"      2.000   Impervious slope"
"      0.250   Pervious Manning 'n'"
"      83.000   Pervious SCS Curve No."
"      0.406   Pervious Runoff coefficient"
"      0.100   Pervious Ia/S coefficient"
"      5.202   Pervious Initial abstraction"

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"      0.015 Impervious Manning 'n' "
" 98.000 Impervious SCS Curve No. "
"      0.893 Impervious Runoff coefficient"
"      0.100 Impervious Ia/S coefficient"
"      0.518 Impervious Initial abstraction"
"          0.015      0.000      0.015      0.048 c.m/sec"
"      Catchment 4      Pervious Impervious Total Area "
"      Surface Area      0.000      0.060      0.060      hectare"
"      Time of concentration      14.337      1.769      1.769      minutes"
"      Time to Centroid      114.900      88.655      88.655      minutes"
"      Rainfall depth      48.624      48.624      48.624      mm"
"      Rainfall volume      0.00      29.17      29.17      c.m"
"      Rainfall losses      28.884      5.812      5.812      mm"
"      Runoff depth      19.740      42.812      42.812      mm"
"      Runoff volume      0.00      25.69      25.69      c.m"
"      Runoff coefficient      0.406      0.893      0.893      "
"      Maximum flow      0.000      0.015      0.015      c.m/sec"
" 40 HYDROGRAPH Add Runoff "
"      4 Add Runoff "
"          0.015      0.015      0.015      0.048"
" 52 CHANNEL DESIGN"
"      0.015 Current peak flow c.m/sec"
"      0.015 Manning 'n' "
"      0. Cross-section type: 0=trapezoidal; 1=general "
"      0.000 Basewidth metre"
" 50.000 Left bank slope"
" 50.000 Right bank slope"
"      1.000 Channel depth metre"
"      0.500 Gradient %"
"      Depth of flow      0.032 metre"
"      Velocity      0.298 m/sec"
"      Channel capacity      148.463 c.m/sec"
"      Critical depth      0.028 metre"
" 53 ROUTE Zero Route"
"      0.00 Zero Route Reach length (metre)"
"          0.015      0.015      0.015      0.048 c.m/sec"
" 40 HYDROGRAPH Combine 113"
"      6 Combine "
"      113 Node #"
"      TO ADS UNIT"
"      Maximum flow      0.063 c.m/sec"
"      Hydrograph volume      117.622 c.m"
"          0.015      0.015      0.015      0.063"
" 40 HYDROGRAPH Start - New Tributary"
"      2 Start - New Tributary"
"          0.015      0.000      0.015      0.063"
" 33 CATCHMENT 5"
"      1 Triangular SCS"
"      1 Equal length"
"      1 SCS method"
"      5 Sump #5"
" 100.000 % Impervious"
"      0.064 Total Area"
"      23.400 Flow length"
"      2.000 Overland Slope"
"      0.000 Pervious Area"
"      23.400 Pervious length"
"      2.000 Pervious slope"
"      0.064 Impervious Area"
"      23.400 Impervious length"
"      2.000 Impervious slope"
"      0.250 Pervious Manning 'n' "
"      83.000 Pervious SCS Curve No. "
"      0.406 Pervious Runoff coefficient"
"      0.100 Pervious Ia/S coefficient"
"      5.202 Pervious Initial abstraction"
"      0.015 Impervious Manning 'n' "
" 98.000 Impervious SCS Curve No. "
"      0.893 Impervious Runoff coefficient"
"      0.100 Impervious Ia/S coefficient"
"      0.518 Impervious Initial abstraction"
"          0.016      0.000      0.015      0.063 c.m/sec"
"      Catchment 5      Pervious Impervious Total Area "
"      Surface Area      0.000      0.064      0.064      hectare"
"      Time of concentration      14.825      1.829      1.829      minutes"
"      Time to Centroid      115.494      88.713      88.713      minutes"
"      Rainfall depth      48.624      48.624      48.624      mm"
"      Rainfall volume      0.00      31.12      31.12      c.m"
"      Rainfall losses      28.895      5.824      5.824      mm"
"      Runoff depth      19.729      42.800      42.800      mm"
"      Runoff volume      0.00      27.39      27.39      c.m"

```

"	Runoff coefficient	0.406	0.893	0.893	"
"	Maximum flow	0.000	0.016	0.016	c. m/sec"
" 40	HYDROGRAPH Add Runoff "				
"	4 Add Runoff "				
"	0.016	0.016	0.015	0.063"	
" 52	CHANNEL DESIGN"				
"	0.016 Current peak flow	c. m/sec"			
"	0.015 Manning 'n' "				
"	0. Cross-section type: 0=trapezoidal; 1=general "				
"	0.600 Basewidth	metre"			
"	50.000 Left bank slope"				
"	50.000 Right bank slope"				
"	1.000 Channel depth	metre"			
"	0.500 Gradient	%"			
"	Depth of flow	0.027	metre"		
"	Velocity	0.300	m/sec"		
"	Channel capacity	150.842	c. m/sec"		
"	Critical depth	0.024	metre"		
" 53	ROUTE Zero Route"				
"	0.00 Zero Route Reach length	(metre)"			
"	0.016	0.016	0.016	0.063 c. m/sec"	
" 40	HYDROGRAPH Combine	113"			
"	6 Combine "				
"	113 Node #"				
"	TO ADS UNIT"				
"	Maximum flow	0.078	c. m/sec"		
"	Hydrograph volume	145.014	c. m"		
"	0.016	0.016	0.016	0.078"	
" 40	HYDROGRAPH Start - New Tributary"				
"	2 Start - New Tributary"				
"	0.016	0.000	0.016	0.078"	
" 33	CATCHMENT 6"				
"	1 Triangular SCS"				
"	1 Equal length"				
"	1 SCS method"				
"	6 sump #6"				
"	100.000 % Impervious"				
"	0.065 Total Area"				
"	23.300 Flow length"				
"	2.000 Overland Slope"				
"	0.000 Pervious Area"				
"	23.300 Pervious length"				
"	2.000 Pervious slope"				
"	0.065 Impervious Area"				
"	23.300 Impervious length"				
"	2.000 Impervious slope"				
"	0.250 Pervious Manning 'n' "				
"	83.000 Pervious SCS Curve No. "				
"	0.406 Pervious Runoff coefficient"				
"	0.100 Pervious Ia/S coefficient"				
"	5.202 Pervious Initial abstraction"				
"	0.015 Impervious Manning 'n' "				
"	98.000 Impervious SCS Curve No. "				
"	0.893 Impervious Runoff coefficient"				
"	0.100 Impervious Ia/S coefficient"				
"	0.518 Impervious Initial abstraction"				
"	0.016	0.000	0.016	0.078 c. m/sec"	
"	Catchment 6	Pervious	Impervious	Total Area "	
"	Surface Area	0.000	0.065	0.065	hectare"
"	Time of concentration	14.787	1.825	1.825	minutes"
"	Time to Centroid	115.447	88.710	88.710	minutes"
"	Rainfall depth	48.624	48.624	48.624	mm"
"	Rainfall volume	0.00	31.61	31.61	c. m"
"	Rainfall losses	28.893	5.824	5.824	mm"
"	Runoff depth	19.731	42.800	42.800	mm"
"	Runoff volume	0.00	27.82	27.82	c. m"
"	Runoff coefficient	0.406	0.893	0.893	"
"	Maximum flow	0.000	0.016	0.016	c. m/sec"
" 40	HYDROGRAPH Add Runoff "				
"	4 Add Runoff "				
"	0.016	0.016	0.016	0.078"	
" 52	CHANNEL DESIGN"				
"	0.016 Current peak flow	c. m/sec"			
"	0.015 Manning 'n' "				
"	0. Cross-section type: 0=trapezoidal; 1=general "				
"	0.600 Basewidth	metre"			
"	50.000 Left bank slope"				
"	50.000 Right bank slope"				
"	1.000 Channel depth	metre"			
"	0.500 Gradient	%"			
"	Depth of flow	0.027	metre"		

```

"      Velocity      0.300      m/sec"
"      Channel capacity      150.842      c. m/sec"
"      Critical depth      0.024      metre"
" 53      ROUTE Zero Route"
"      0.00      Zero Route Reach length      (metre)"
"      0.016      0.016      0.016      0.078 c. m/sec"
" 40      HYDROGRAPH Combine 113"
"      6 Combine "
"      113 Node #"
"      TO ADS UNIT"
"      Maximum flow      0.094      c. m/sec"
"      Hydrograph volume      172.835      c. m"
"      0.016      0.016      0.016      0.094"
" 40      HYDROGRAPH Confluence 113"
"      7 Confluence "
"      113 Node #"
"      TO ADS UNIT"
"      Maximum flow      0.094      c. m/sec"
"      Hydrograph volume      172.835      c. m"
"      0.016      0.094      0.016      0.000"
" 54      POND DESIGN"
"      0.094      Current peak flow      c. m/sec"
"      0.012      Target outflow      c. m/sec"
"      180.0      Hydrograph volume      c. m"
"      46.      Number of stages"
"      268.818      Minimum water level      metre"
"      269.961      Maximum water level      metre"
"      268.818      Starting water level      metre"
"      0      Keep Design Data: 1 = True; 0 = False"
"      Level Discharge      Volume"
"      268.818      0.000      0.0"
"      268.843      0.017      3.6"
"      268.869      0.019      7.1"
"      268.894      0.020      10.6"
"      268.920      0.022      14.1"
"      268.945      0.023      17.6"
"      268.970      0.024      21.0"
"      268.996      0.026      27.7"
"      269.021      0.027      34.3"
"      269.047      0.028      40.9"
"      269.072      0.029      47.4"
"      269.097      0.030      53.8"
"      269.123      0.031      60.1"
"      269.148      0.032      66.2"
"      269.174      0.033      72.3"
"      269.199      0.034      78.2"
"      269.224      0.035      84.0"
"      269.250      0.035      89.5"
"      269.275      0.036      94.8"
"      269.301      0.037      99.7"
"      269.326      0.038      104.1"
"      269.351      0.039      108.2"
"      269.377      0.039      112.0"
"      269.402      0.040      115.7"
"      269.428      0.041      119.4"
"      269.453      0.042      123.1"
"      269.478      0.042      126.7"
"      269.504      0.043      130.3"
"      269.529      0.044      133.9"
"      269.555      0.044      134.1"
"      269.580      0.045      134.1"
"      269.605      0.046      134.2"
"      269.631      0.046      134.3"
"      269.656      0.047      134.4"
"      269.682      0.048      134.5"
"      269.707      0.048      134.6"
"      269.732      0.049      134.7"
"      269.758      0.050      134.8"
"      269.783      0.050      134.9"
"      269.809      0.051      135.0"
"      269.834      0.051      135.1"
"      269.859      0.052      135.2"
"      269.885      0.053      135.4"
"      269.910      0.053      136.1"
"      269.936      0.054      137.3"
"      269.961      0.054      139.5"
"      1.      ORIFICES"
"      Ori fi ce      Ori fi ce      Ori fi ce Number of"
"      invert coeffi cie      di ameter      ori fi ces"
"      268.620      0.630      0.1490      1.000"
"      Peak outflow      0.030      c. m/sec"

```

"	Maximum level	269.110	metre"
"	Maximum storage	57.031	c. m"
"	Centroidal lag	1.812	hours"
"	0.016 0.094	0.030 0.000	c. m/sec"

```

"      MI DUSS Output ----->"
"      MI DUSS version                      Version 2.07 rev. 387"
"      MI DUSS created                      Friday, September 23, 2005"
"      10  Units used:                      ie METRIC"
"      Job folder:                          F:\Projects\U\usborne\US\US-01\US-01-14\
"      US-01-14-11\ENG 1354-2\ENG\SWM\MI DUSS\Stormtech Model "
"      Output filename:                     100 year post-final -revised-6.out"
"      License name:                        Igrabowski "
"      Company"
"      Date & Time last used:                6/27/2018 at 2:12:13 PM"
" 31  TIME PARAMETERS"
"      5.000 Time Step"
"      180.000 Max. Storm length"
"      1500.000 Max. Hydrograph"
" 32  STORM Chicago storm"
"      1 Chicago storm"
"      1717.700 Coefficient A"
"      12.472 Constant B"
"      0.764 Exponent C"
"      0.380 Fraction R"
"      180.000 Duration"
"      1.000 Time step multiplier"
"      Maximum intensity 181.635 mm/hr"
"      Total depth 92.643 mm"
"      6 100hyd Hydrograph extension used in this file"
" 33  CATCHMENT 1"
"      1 Tri angular SCS"
"      1 Equal length"
"      1 SCS method"
"      1 Sump #1"
"      100.000 % Impervious"
"      0.056 Total Area"
"      14.000 Flow length"
"      2.000 Overland Slope"
"      0.000 Pervious Area"
"      14.000 Pervious length"
"      2.000 Pervious slope"
"      0.056 Impervious Area"
"      14.000 Impervious length"
"      2.000 Impervious slope"
"      0.250 Pervious Manning 'n'"
"      83.000 Pervious SCS Curve No."
"      0.592 Pervious Runoff coefficient"
"      0.100 Pervious Ia/S coefficient"
"      5.202 Pervious Initial abstraction"
"      0.015 Impervious Manning 'n'"
"      98.000 Impervious SCS Curve No."
"      0.941 Impervious Runoff coefficient"
"      0.100 Impervious Ia/S coefficient"
"      0.518 Impervious Initial abstraction"
"      0.024 0.000 0.000 0.000 c.m/sec"
"      Catchment 1 Pervious Impervious Total Area "
"      Surface Area 0.000 0.056 0.056 hectare"
"      Time of concentration 7.461 1.115 1.115 minutes"
"      Time to Centroid 104.064 86.722 86.722 minutes"
"      Rainfall depth 92.643 92.643 92.643 mm"
"      Rainfall volume 0.00 51.88 51.88 c.m"
"      Rainfall losses 38.070 7.639 7.639 mm"
"      Runoff depth 54.573 85.003 85.003 mm"
"      Runoff volume 0.00 47.60 47.60 c.m"
"      Runoff coefficient 0.592 0.941 0.941 "
"      Maximum flow 0.000 0.024 0.024 c.m/sec"
" 40  HYDROGRAPH Add Runoff "
"      4 Add Runoff "
"      0.024 0.024 0.000 0.000"
" 52  CHANNEL DESIGN"
"      0.024 Current peak flow c.m/sec"
"      0.015 Manning 'n'"
"      0. Cross-section type: 0=trapezoidal; 1=general "
"      0.000 Basewidth metre"
"      50.000 Left bank slope"
"      50.000 Right bank slope"
"      1.000 Channel depth metre"
"      0.500 Gradient %"
"      Depth of flow 0.038 metre"
"      Velocity 0.335 m/sec"
"      Channel capacity 148.463 c.m/sec"
"      Critical depth 0.034 metre"
" 53  ROUTE Zero Route"
"      0.00 Zero Route Reach length (metre)"
"      0.024 0.024 0.024 0.000 c.m/sec"

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" 40      HYDROGRAPH      Combine      113"
"          6      Combine "
"          113     Node #"
"          TO ADS UNIT"
"          Maximum flow      0.024      c. m/sec"
"          Hydrograph volume      47.602      c. m"
"          0.024      0.024      0.024      0.024"
" 40      HYDROGRAPH Start - New Tributary"
"          2      Start - New Tributary"
"          0.024      0.000      0.024      0.024"
" 33      CATCHMENT 2"
"          1      Triangular SCS"
"          3      Specify values"
"          1      SCS method"
"          2      sump #2"
"          54.500    % Impervious"
"          0.129    Total Area"
"          28.000    Flow Length"
"          2.000    Overland Slope"
"          0.059    Pervious Area"
"          28.000    Pervious Length"
"          2.000    Pervious slope"
"          0.070    Impervious Area"
"          15.500    Impervious Length"
"          2.000    Impervious slope"
"          0.250    Pervious Manning 'n'"
"          83.000    Pervious SCS Curve No."
"          0.592    Pervious Runoff coefficient"
"          0.100    Pervious Ia/S coefficient"
"          5.202    Pervious Initial abstraction"
"          0.015    Impervious Manning 'n'"
"          98.000    Impervious SCS Curve No."
"          0.941    Impervious Runoff coefficient"
"          0.100    Impervious Ia/S coefficient"
"          0.518    Impervious Initial abstraction"
"          0.036      0.000      0.024      0.024 c. m/sec"
"          Catchment 2      Pervious      Impervious      Total Area "
"          Surface Area      0.059      0.070      0.129      hectare"
"          Time of concentration      11.308      1.185      4.721      minutes"
"          Time to Centroid      108.672      86.734      94.396      minutes"
"          Rainfall depth      92.643      92.643      92.643      mm"
"          Rainfall volume      54.38      65.13      119.51      c. m"
"          Rainfall losses      37.901      7.490      21.327      mm"
"          Runoff depth      54.742      85.153      71.316      mm"
"          Runoff volume      32.13      59.87      92.00      c. m"
"          Runoff coefficient      0.592      0.941      0.782      "
"          Maximum flow      0.013      0.030      0.036      c. m/sec"
" 40      HYDROGRAPH Add Runoff "
"          4      Add Runoff "
"          0.036      0.036      0.024      0.024"
" 52      CHANNEL DESIGN"
"          0.036    Current peak flow      c. m/sec"
"          0.015    Manning 'n'"
"          0.      Cross-section type: 0=trapezoidal; 1=general"
"          0.000    Basewidth      metre"
"          50.000    Left bank slope"
"          50.000    Right bank slope"
"          1.000    Channel depth      metre"
"          0.500    Gradient      %"
"          Depth of flow      0.044      metre"
"          Velocity      0.371      m/sec"
"          Channel capacity      148.463      c. m/sec"
"          Critical depth      0.040      metre"
" 53      ROUTE Zero Route"
"          0.00    Zero Route Reach Length      (metre)"
"          0.036      0.036      0.036      0.024 c. m/sec"
" 40      HYDROGRAPH      Combine      113"
"          6      Combine "
"          113     Node #"
"          TO ADS UNIT"
"          Maximum flow      0.058      c. m/sec"
"          Hydrograph volume      139.600      c. m"
"          0.036      0.036      0.036      0.058"
" 40      HYDROGRAPH Start - New Tributary"
"          2      Start - New Tributary"
"          0.036      0.000      0.036      0.058"
" 33      CATCHMENT 3"
"          1      Triangular SCS"
"          1      Equal Length"
"          1      SCS method"
"          3      sump #3"

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"      100.000 % Impervious"
"      0.062 Total Area"
"      22.360 Flow Length"
"      2.000 Overland Slope"
"      0.000 Pervious Area"
"      22.360 Pervious Length"
"      2.000 Pervious slope"
"      0.062 Impervious Area"
"      22.360 Impervious Length"
"      2.000 Impervious slope"
"      0.250 Pervious Manning 'n'"
"      83.000 Pervious SCS Curve No."
"      0.592 Pervious Runoff coefficient"
"      0.100 Pervious Ia/S coefficient"
"      5.202 Pervious Initial abstraction"
"      0.015 Impervious Manning 'n'"
"      98.000 Impervious SCS Curve No."
"      0.941 Impervious Runoff coefficient"
"      0.100 Impervious Ia/S coefficient"
"      0.518 Impervious Initial abstraction"
"      0.026 0.000 0.036 0.058 c.m/sec"
"      Catchment 3 Pervious Impervious Total Area "
"      Surface Area 0.000 0.062 0.062 hectare"
"      Time of concentration 9.881 1.476 1.476 minutes"
"      Time to Centroid 106.998 87.229 87.229 minutes"
"      Rainfall depth 92.643 92.643 92.643 mm"
"      Rainfall volume 0.00 57.44 57.44 c.m"
"      Rainfall losses 38.152 6.942 6.942 mm"
"      Runoff depth 54.491 85.700 85.700 mm"
"      Runoff volume 0.00 53.13 53.13 c.m"
"      Runoff coefficient 0.592 0.941 0.941 "
"      Maximum flow 0.000 0.026 0.026 c.m/sec"
" 40 HYDROGRAPH Add Runoff "
"      4 Add Runoff "
"      0.026 0.026 0.036 0.058"
" 52 CHANNEL DESIGN"
"      0.026 Current peak flow c.m/sec"
"      0.015 Manning 'n'"
"      0 Cross-section type: 0=trapezoidal; 1=general"
"      0.000 Basewidth metre"
"      50.000 Left bank slope"
"      50.000 Right bank slope"
"      1.000 Channel depth metre"
"      0.500 Gradient %"
"      Depth of flow 0.039 metre"
"      Velocity 0.342 m/sec"
"      Channel capacity 148.463 c.m/sec"
"      Critical depth 0.035 metre"
" 53 ROUTE Zero Route"
"      0.00 Zero Route Reach Length (metre)"
"      0.026 0.026 0.026 0.058 c.m/sec"
" 40 HYDROGRAPH Combine 113"
"      6 Combine "
"      113 Node #"
"      TO ADS UNIT"
"      Maximum flow 0.084 c.m/sec"
"      Hydrograph volume 192.734 c.m"
"      0.026 0.026 0.026 0.084"
" 40 HYDROGRAPH Start - New Tributary"
"      2 Start - New Tributary"
"      0.026 0.000 0.026 0.084"
" 33 CATCHMENT 4"
"      1 Triangular SCS"
"      1 Equal Length"
"      1 SCS method"
"      4 sump #4"
"      100.000 % Impervious"
"      0.060 Total Area"
"      22.130 Flow Length"
"      2.000 Overland Slope"
"      0.000 Pervious Area"
"      22.130 Pervious Length"
"      2.000 Pervious slope"
"      0.060 Impervious Area"
"      22.130 Impervious Length"
"      2.000 Impervious slope"
"      0.250 Pervious Manning 'n'"
"      83.000 Pervious SCS Curve No."
"      0.592 Pervious Runoff coefficient"
"      0.100 Pervious Ia/S coefficient"
"      5.202 Pervious Initial abstraction"

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"      0.015 Impervious Manning 'n' "
"      98.000 Impervious SCS Curve No. "
"      0.941 Impervious Runoff coefficient"
"      0.100 Impervious Ia/S coefficient"
"      0.518 Impervious Initial abstraction"
"      0.025 0.000 0.026 0.084 c.m/sec"
"      Catchment 4 Pervious Impervious Total Area "
"      Surface Area 0.000 0.060 0.060 hectare"
"      Time of concentration 9.819 1.467 1.467 minutes"
"      Time to Centroid 106.919 87.211 87.211 minutes"
"      Rainfall depth 92.643 92.643 92.643 mm"
"      Rainfall volume 0.00 55.59 55.59 c.m"
"      Rainfall losses 38.149 6.956 6.956 mm"
"      Runoff depth 54.494 85.686 85.686 mm"
"      Runoff volume 0.00 51.41 51.41 c.m"
"      Runoff coefficient 0.592 0.941 0.941 "
"      Maximum flow 0.000 0.025 0.025 c.m/sec"
" 40 HYDROGRAPH Add Runoff "
"      4 Add Runoff "
"      0.025 0.025 0.026 0.084"
" 52 CHANNEL DESIGN"
"      0.025 Current peak flow c.m/sec"
"      0.015 Manning 'n' "
"      0. Cross-section type: 0=trapezoidal; 1=general "
"      0.000 Basewidth metre"
"      50.000 Left bank slope"
"      50.000 Right bank slope"
"      1.000 Channel depth metre"
"      0.500 Gradient %"
"      Depth of flow 0.038 metre"
"      Velocity 0.338 m/sec"
"      Channel capacity 148.463 c.m/sec"
"      Critical depth 0.035 metre"
" 53 ROUTE Zero Route"
"      0.00 Zero Route Reach length (metre)"
"      0.025 0.025 0.025 0.084 c.m/sec"
" 40 HYDROGRAPH Combine 113"
"      6 Combine "
"      113 Node #"
"      TO ADS UNIT"
"      Maximum flow 0.109 c.m/sec"
"      Hydrograph volume 244.146 c.m"
"      0.025 0.025 0.025 0.109"
" 40 HYDROGRAPH Start - New Tributary"
"      2 Start - New Tributary"
"      0.025 0.000 0.025 0.109"
" 33 CATCHMENT 5"
"      1 Triangular SCS"
"      1 Equal length"
"      1 SCS method"
"      5 Sump #5"
"      100.000 % Impervious"
"      0.064 Total Area"
"      23.400 Flow length"
"      2.000 Overland Slope"
"      0.000 Pervious Area"
"      23.400 Pervious length"
"      2.000 Pervious slope"
"      0.064 Impervious Area"
"      23.400 Impervious length"
"      2.000 Impervious slope"
"      0.250 Pervious Manning 'n' "
"      83.000 Pervious SCS Curve No. "
"      0.592 Pervious Runoff coefficient"
"      0.100 Pervious Ia/S coefficient"
"      5.202 Pervious Initial abstraction"
"      0.015 Impervious Manning 'n' "
"      98.000 Impervious SCS Curve No. "
"      0.941 Impervious Runoff coefficient"
"      0.100 Impervious Ia/S coefficient"
"      0.518 Impervious Initial abstraction"
"      0.027 0.000 0.025 0.109 c.m/sec"
"      Catchment 5 Pervious Impervious Total Area "
"      Surface Area 0.000 0.064 0.064 hectare"
"      Time of concentration 10.154 1.517 1.517 minutes"
"      Time to Centroid 107.305 87.308 87.308 minutes"
"      Rainfall depth 92.643 92.643 92.643 mm"
"      Rainfall volume 0.00 59.29 59.29 c.m"
"      Rainfall losses 38.091 6.878 6.878 mm"
"      Runoff depth 54.551 85.765 85.765 mm"
"      Runoff volume 0.00 54.89 54.89 c.m"

```

"	Runoff coefficient	0.592	0.941	0.941	"
"	Maximum flow	0.000	0.027	0.027	c. m/sec"
" 40	HYDROGRAPH Add Runoff "				
"	4 Add Runoff "				
"	0.027	0.027	0.025	0.109"	
" 52	CHANNEL DESIGN"				
"	0.027 Current peak flow	c. m/sec"			
"	0.015 Manning 'n' "				
"	0. Cross-section type: 0=trapezoidal; 1=general "				
"	0.600 Basewidth	metre"			
"	50.000 Left bank slope"				
"	50.000 Right bank slope"				
"	1.000 Channel depth	metre"			
"	0.500 Gradient	%"			
"	Depth of flow	0.034	metre"		
"	Velocity	0.343	m/sec"		
"	Channel capacity	150.842	c. m/sec"		
"	Critical depth	0.030	metre"		
" 53	ROUTE Zero Route"				
"	0.00 Zero Route Reach length	(metre)"			
"	0.027	0.027	0.027	0.109 c. m/sec"	
" 40	HYDROGRAPH Combine	113"			
"	6 Combine "				
"	113 Node #"				
"	TO ADS UNIT"				
"	Maximum flow	0.136	c. m/sec"		
"	Hydrograph volume	299.035	c. m"		
"	0.027	0.027	0.027	0.136"	
" 40	HYDROGRAPH Start - New Tributary"				
"	2 Start - New Tributary"				
"	0.027	0.000	0.027	0.136"	
" 33	CATCHMENT 6"				
"	1 Triangular SCS"				
"	1 Equal length"				
"	1 SCS method"				
"	6 sump #6"				
"	100.000 % Impervious"				
"	0.065 Total Area"				
"	23.300 Flow length"				
"	2.000 Overland Slope"				
"	0.000 Pervious Area"				
"	23.300 Pervious length"				
"	2.000 Pervious slope"				
"	0.065 Impervious Area"				
"	23.300 Impervious length"				
"	2.000 Impervious slope"				
"	0.250 Pervious Manning 'n' "				
"	83.000 Pervious SCS Curve No. "				
"	0.592 Pervious Runoff coefficient"				
"	0.100 Pervious Ia/S coefficient"				
"	5.202 Pervious Initial abstraction"				
"	0.015 Impervious Manning 'n' "				
"	98.000 Impervious SCS Curve No. "				
"	0.941 Impervious Runoff coefficient"				
"	0.100 Impervious Ia/S coefficient"				
"	0.518 Impervious Initial abstraction"				
"	0.027	0.000	0.027	0.136 c. m/sec"	
"	Catchment 6	Pervious	Impervious	Total Area "	
"	Surface Area	0.000	0.065	0.065	hectare"
"	Time of concentration	10.128	1.513	1.513	minutes"
"	Time to Centroid	107.275	87.301	87.301	minutes"
"	Rainfall depth	92.643	92.643	92.643	mm"
"	Rainfall volume	0.00	60.22	60.22	c. m"
"	Rainfall losses	38.096	6.883	6.883	mm"
"	Runoff depth	54.547	85.760	85.760	mm"
"	Runoff volume	0.00	55.74	55.74	c. m"
"	Runoff coefficient	0.592	0.941	0.941	"
"	Maximum flow	0.000	0.027	0.027	c. m/sec"
" 40	HYDROGRAPH Add Runoff "				
"	4 Add Runoff "				
"	0.027	0.027	0.027	0.136"	
" 52	CHANNEL DESIGN"				
"	0.027 Current peak flow	c. m/sec"			
"	0.015 Manning 'n' "				
"	0. Cross-section type: 0=trapezoidal; 1=general "				
"	0.600 Basewidth	metre"			
"	50.000 Left bank slope"				
"	50.000 Right bank slope"				
"	1.000 Channel depth	metre"			
"	0.500 Gradient	%"			
"	Depth of flow	0.034	metre"		

```

"      Velocity                      0.343      m/sec"
"      Channel capacity              150.842    c. m/sec"
"      Critical depth                 0.030      metre"
" 53      ROUTE Zero Route"
"      0.00 Zero Route Reach length (metre)"
"      0.027 0.027 0.027 0.136 c. m/sec"
" 40      HYDROGRAPH Combine 113"
"      6 Combine "
"      113 Node #"
"      TO ADS UNIT"
"      Maximum flow                  0.164      c. m/sec"
"      Hydrograph volume              354.779    c. m"
"      0.027 0.027 0.027 0.164"
" 40      HYDROGRAPH Confluence 113"
"      7 Confluence "
"      113 Node #"
"      TO ADS UNIT"
"      Maximum flow                  0.164      c. m/sec"
"      Hydrograph volume              354.779    c. m"
"      0.027 0.164 0.027 0.000"
" 54      POND DESIGN"
"      0.164 Current peak flow c. m/sec"
"      0.012 Target outflow c. m/sec"
"      355.0 Hydrograph volume c. m"
"      46. Number of stages"
"      268.818 Minimum water level metre"
"      269.961 Maximum water level metre"
"      268.818 Starting water level metre"
"      0 Keep Design Data: 1 = True; 0 = False"
"      Level Discharge Volume"
"      268.818 0.000 0.0"
"      268.843 0.017 3.6"
"      268.869 0.019 7.1"
"      268.894 0.020 10.6"
"      268.920 0.022 14.1"
"      268.945 0.023 17.6"
"      268.970 0.024 21.0"
"      268.996 0.026 27.7"
"      269.021 0.027 34.3"
"      269.047 0.028 40.9"
"      269.072 0.029 47.4"
"      269.097 0.030 53.8"
"      269.123 0.031 60.1"
"      269.148 0.032 66.2"
"      269.174 0.033 72.3"
"      269.199 0.034 78.2"
"      269.224 0.035 84.0"
"      269.250 0.035 89.5"
"      269.275 0.036 94.8"
"      269.301 0.037 99.7"
"      269.326 0.038 104.1"
"      269.351 0.039 108.2"
"      269.377 0.039 112.0"
"      269.402 0.040 115.7"
"      269.428 0.041 119.4"
"      269.453 0.042 123.1"
"      269.478 0.042 126.7"
"      269.504 0.043 130.3"
"      269.529 0.044 133.9"
"      269.555 0.044 134.1"
"      269.580 0.045 134.1"
"      269.605 0.046 134.2"
"      269.631 0.046 134.3"
"      269.656 0.047 134.4"
"      269.682 0.048 134.5"
"      269.707 0.048 134.6"
"      269.732 0.049 134.7"
"      269.758 0.050 134.8"
"      269.783 0.050 134.9"
"      269.809 0.051 135.0"
"      269.834 0.051 135.1"
"      269.859 0.052 135.2"
"      269.885 0.053 135.4"
"      269.910 0.053 136.1"
"      269.936 0.054 137.3"
"      269.961 0.054 139.5"
" 1.      ORIFICES"
"      Ori fi ce Ori fi ce Ori fi ce Number of"
"      invert coefficie diameter ori fi ces"
"      268.620 0.630 0.1490 1.000"
"      Peak outflow 0.054 c. m/sec"

```

"	Maximum level	269.939	metre"
"	Maximum storage	137.530	c. m"
"	Centroidal lag	2.063	hours"
"	0.027 0.164	0.054 0.000	c. m/sec"

Appendix B

Stormwater Chamber

SWM STORAGE - UNDERGROUND CHAMBER UNIT AND UPSTREAM PIPES

Elevation (m)	CBMH.1 (m ³)	300 dia. Pipe (m ³)	ST.5 (m ³)	ADS UNIT (m ³)	ST.4 (m ³)	300 dia. Pipe (m ³)	ST.3 (m ³)	300 dia. Pipe (m ³)	ST.2 (m ³)	300 dia. Pipe (m ³)	Surface (m ³)	Total (m ³)	Description
268.818	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	BOTTOM OF STONE
268.843	0.00	0.130	0.00	3.455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.59	
268.868	0.00	0.170	0.00	6.911	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.08	
268.894	0.00	0.210	0.00	10.366	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.58	
268.919	0.00	0.250	0.00	13.821	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.07	
268.945	0.00	0.290	0.00	17.276	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.57	BOTTOM OF CHAMBER
268.970	0.00	0.320	0.00	20.732	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.05	
268.995	0.029	0.350	0.00	27.358	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.74	
269.021	0.057	0.370	0.00	33.919	0.00	0.004	0.00	0.00	0.00	0.00	0.00	34.35	
269.046	0.086	0.390	0.00	40.391	0.00	0.030	0.00	0.011	0.00	0.00	0.00	40.91	
269.072	0.115	0.390	0.00	46.775	0.00	0.085	0.00	0.024	0.00	0.00	0.00	47.39	5 YR. STORM ELEV = 269.110
269.097	0.144	0.390	0.00	53.048	0.00	0.150	0.00	0.038	0.00	0.005	0.00	53.77	
269.122	0.172	0.390	0.00	59.189	0.00	0.230	0.00	0.053	0.00	0.023	0.00	60.06	
269.148	0.201	0.390	0.00	65.195	0.00	0.320	0.00	0.069	0.00	0.063	0.00	66.24	
269.173	0.230	0.390	0.00	71.070	0.00	0.400	0.00	0.086	0.00	0.120	0.00	72.30	
269.199	0.259	0.390	0.000	76.769	0.00	0.490	0.00	0.100	0.00	0.210	0.00	78.22	TOP OF CHAMBER
269.224	0.287	0.390	0.000	82.268	0.00	0.580	0.00	0.120	0.00	0.320	0.00	83.97	
269.249	0.316	0.390	0.009	87.546	0.00	0.650	0.00	0.130	0.00	0.450	0.00	89.49	
269.275	0.345	0.390	0.020	92.557	0.00	0.730	0.00	0.140	0.00	0.620	0.00	94.80	
269.300	0.373	0.390	0.031	97.217	0.00	0.780	0.00	0.150	0.00	0.800	0.00	99.74	
269.326	0.402	0.390	0.042	101.260	0.011	0.810	0.011	0.150	0.00	1.010	0.00	104.09	TOP OF STONE
269.351	0.431	0.390	0.053	105.057	0.023	0.820	0.023	0.150	0.00	1.210	0.00	108.16	
269.376	0.460	0.390	0.065	108.642	0.034	0.820	0.034	0.150	0.000	1.400	0.00	111.99	
269.402	0.488	0.390	0.076	112.097	0.045	0.820	0.045	0.150	0.002	1.580	0.00	115.69	
269.427	0.517	0.390	0.087	115.553	0.056	0.820	0.056	0.150	0.031	1.730	0.00	119.39	
269.453	0.546	0.390	0.098	119.008	0.067	0.820	0.067	0.150	0.059	1.860	0.00	123.07	100 YR. STORM ELEV = 269.939
269.478	0.575	0.390	0.110	122.463	0.079	0.820	0.079	0.150	0.088	1.950	0.00	126.70	
269.503	0.603	0.390	0.121	125.919	0.090	0.820	0.090	0.150	0.117	2.030	0.00	130.33	
269.529	0.632	0.390	0.132	129.374	0.101	0.820	0.101	0.150	0.146	2.080	0.00	133.93	
269.554	0.661	0.390	0.143	129.374	0.112	0.820	0.112	0.150	0.174	2.110	0.00	134.05	
269.580	0.689	0.390	0.154	129.374	0.124	0.820	0.124	0.150	0.203	2.120	0.00	134.15	
269.605	0.718	0.390	0.166	129.374	0.135	0.820	0.135	0.150	0.232	2.120	0.00	134.24	
269.630	0.747	0.390	0.177	129.374	0.146	0.820	0.146	0.150	0.261	2.120	0.00	134.33	
269.656	0.776	0.390	0.188	129.374	0.157	0.820	0.157	0.150	0.289	2.120	0.00	134.42	
269.681	0.804	0.390	0.199	129.374	0.168	0.820	0.168	0.150	0.318	2.120	0.00	134.51	
269.707	0.833	0.390	0.211	129.374	0.180	0.820	0.180	0.150	0.347	2.120	0.00	134.60	
269.732	0.862	0.390	0.222	129.374	0.191	0.820	0.191	0.150	0.375	2.120	0.00	134.69	
269.757	0.891	0.390	0.233	129.374	0.202	0.820	0.202	0.150	0.404	2.120	0.00	134.79	
269.783	0.919	0.390	0.244	129.374	0.213	0.820	0.213	0.150	0.433	2.120	0.00	134.88	
269.808	0.948	0.390	0.255	129.374	0.225	0.820	0.225	0.150	0.462	2.120	0.00	134.97	
269.834	0.977	0.390	0.267	129.374	0.236	0.820	0.236	0.150	0.490	2.120	0.00	135.06	
269.859	1.005	0.390	0.278	129.374	0.247	0.820	0.247	0.150	0.519	2.120	0.010	135.16	
269.884	1.034	0.390	0.289	129.374	0.258	0.820	0.258	0.150	0.548	2.120	0.160	135.40	
269.910	1.063	0.390	0.300	129.374	0.269	0.820	0.269	0.150	0.577	2.120	0.720	136.05	
269.935	1.092	0.390	0.312	129.374	0.281	0.820	0.281	0.150	0.605	2.120	1.870	137.29	
269.961	1.120	0.390	0.323	129.374	0.292	0.820	0.292	0.150	0.634	2.120	3.960	139.47	

VOLUME CALCULATION DOES NOT INCLUDE CATCHBASIN LEEDS AND CATCHBASIN STORAGE

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	VIVEK SHARMA 647-463-9803 VIVEK.SHARMA@ADS-PIPE.COM
ADS SALES REP:	ANDREW OKOLISAN 519-670-0564 ANDREW.OKOLISAN@ADS-PIPE.COM
PROJECT NO:	S080669



HURON MOTOR PRODUCTS

EXTER, ONTARIO -CANADA

STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-740 OR SC-310.
- CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE CSA S6 CL-625 TRUCK AND THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE CERTIFIED TO CSA B184, "POLYMERIC SUB-SURFACE STORMWATER MANAGEMENT STRUTURES", AND MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418-16 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
 - STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

- STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 150 mm (6") SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 20-50 mm (3/4-2").
- THE CONTRACTOR MUST REPORT ANY KNOWN DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- FULL 900 mm (36") OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

PROPOSED LAYOUT

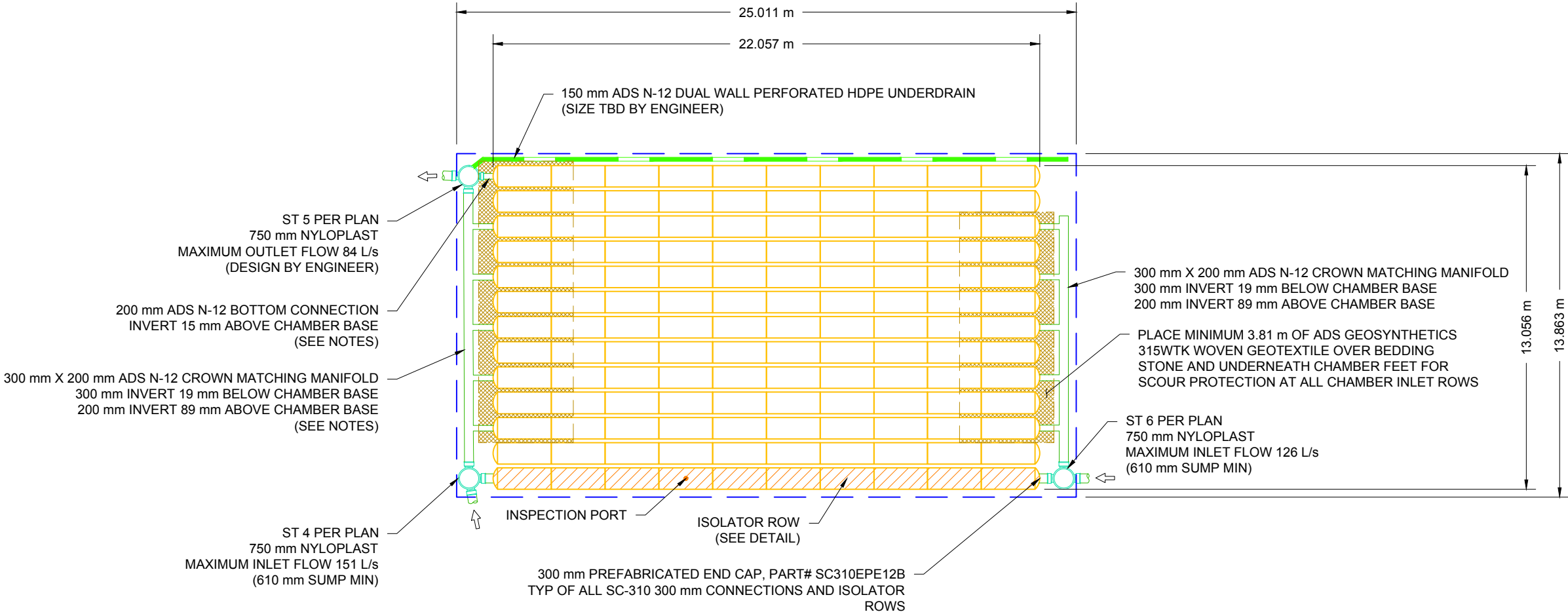
130	STORMTECH SC-310 CHAMBERS
26	STORMTECH SC-310 END CAPS
152	STONE ABOVE (mm)
152	STONE BELOW (mm)
40	% STONE VOID
131.2	INSTALLED SYSTEM VOLUME (m³) (PERIMETER STONE INCLUDED)
347	SYSTEM AREA (m²)
78	SYSTEM PERIMETER (m)

PROPOSED ELEVATIONS


MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	271.814
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	269.986
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	269.833
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	269.833
MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT):	269.833
TOP OF STONE:	269.528
TOP OF SC-310 CHAMBER:	269.376
300 mm X 200 mm MANIFOLD INVERT (200 mm PIPE):	269.059
300 mm ISOLATOR ROW INVERT:	268.994
200 mm BOTTOM CONNECTION INVERT :	268.985
BOTTOM OF SC-310 CHAMBER:	268.970
300 mm X 200 mm MANIFOLD INVERT (300 mm PIPE):	268.951
UNDERDRAIN INVERT:	268.818
BOTTOM OF STONE:	268.818

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH SHEET #7 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.




4640 TRUEJMAN BLVD
HILLIARD, OH 43026



ADVANCED DRAINAGE SYSTEMS, INC.

SCALE = 1 : 200

2 SHEET
OF 6



DETENTION RETENTION WATER QUALITY

70 INWOOD ROAD, SUITE 3 | ROCKY HILL | CT | 06067
860-528-8188 | 888-892-2694 | WWW.STORMTECH.COM

DESCRIPTION

UPDATE PER ENG	4/25/2018
REQUEST	07-13-18

DWN

PM	4/24/2018
JKL	

CKD

RWD	
GFI	

REV

HURON MOTOR PRODUCTS
EXTER, ONTARIO -CANADA

DATE: 4/24/2018
DRAWN: PM
PROJECT #: S080669
CHECKED: CJD

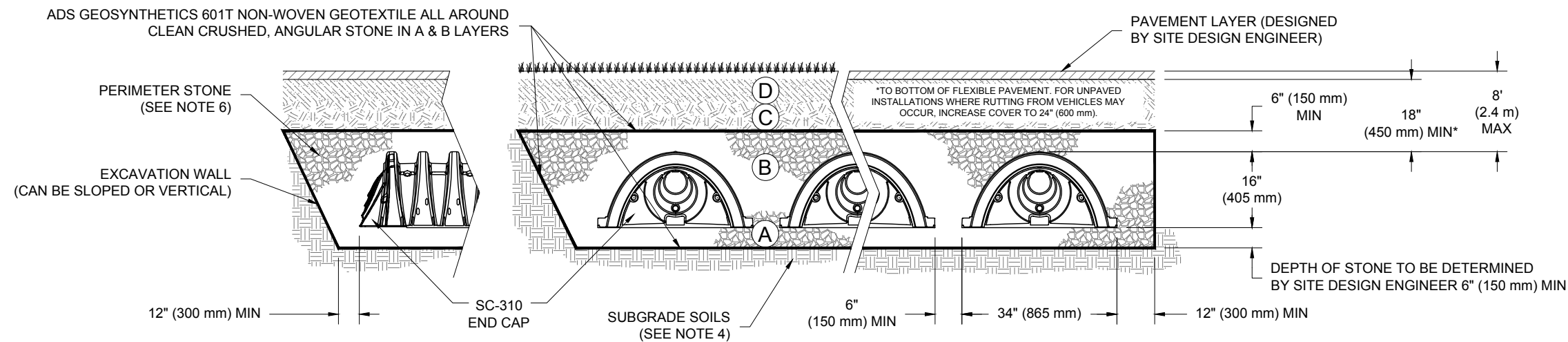
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THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2 3}

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

- SC-310 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

HURON MOTOR PRODUCTS
EXTER, ONTARIO -CANADA

DATE: 4/24/2018
DRAWN: PM
PROJECT #: S080669
CHECKED: CJD

REV	DWN	CKD	DESCRIPTION
4/25/2018	PM	RWD	UPDATE PER ENG. REQUEST
07-13-18	JKL	GFI	UPDATED PER ENG. REQUEST

StormTech
Detention Retention Water Quality

4640 TRUEJMAN BLVD
HILLIARD, OH 43026

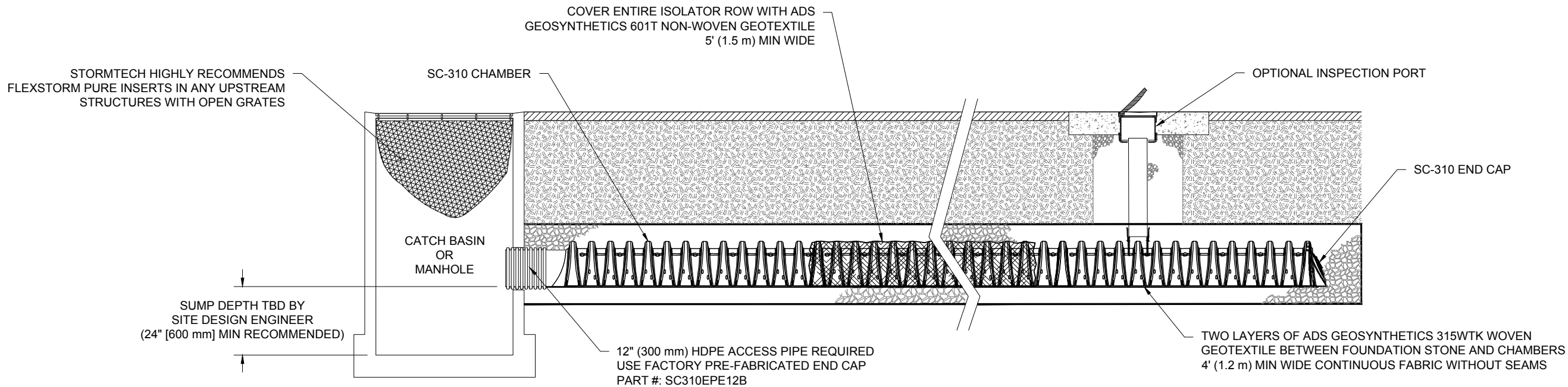
ADS
ADVANCED DRAINAGE SYSTEMS, INC.

70 INWOOD ROAD, SUITE 3 | ROCKY HILL | CT | 06067
860-528-8188 | 888-892-2694 | WWW.STORMTECH.COM

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3 SHEET
OF 6

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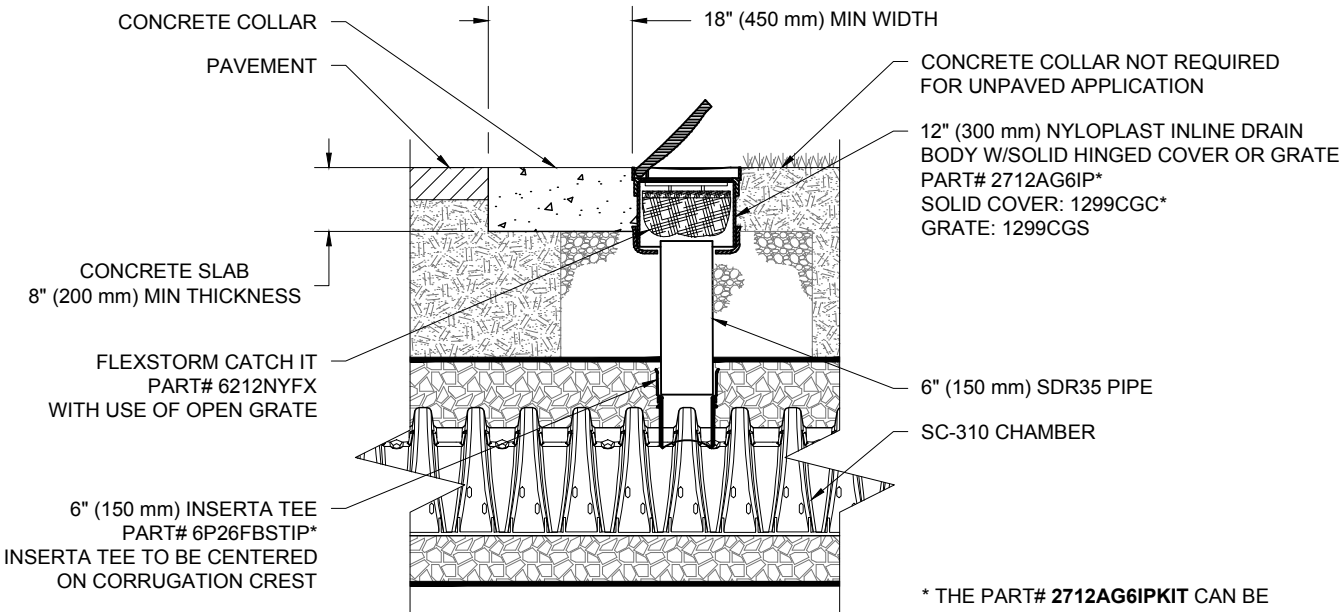
SC-310 ISOLATOR ROW DETAIL
NTS

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
- A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
- A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
- A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
- A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
- A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
- B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
- B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
- i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
- ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
- B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

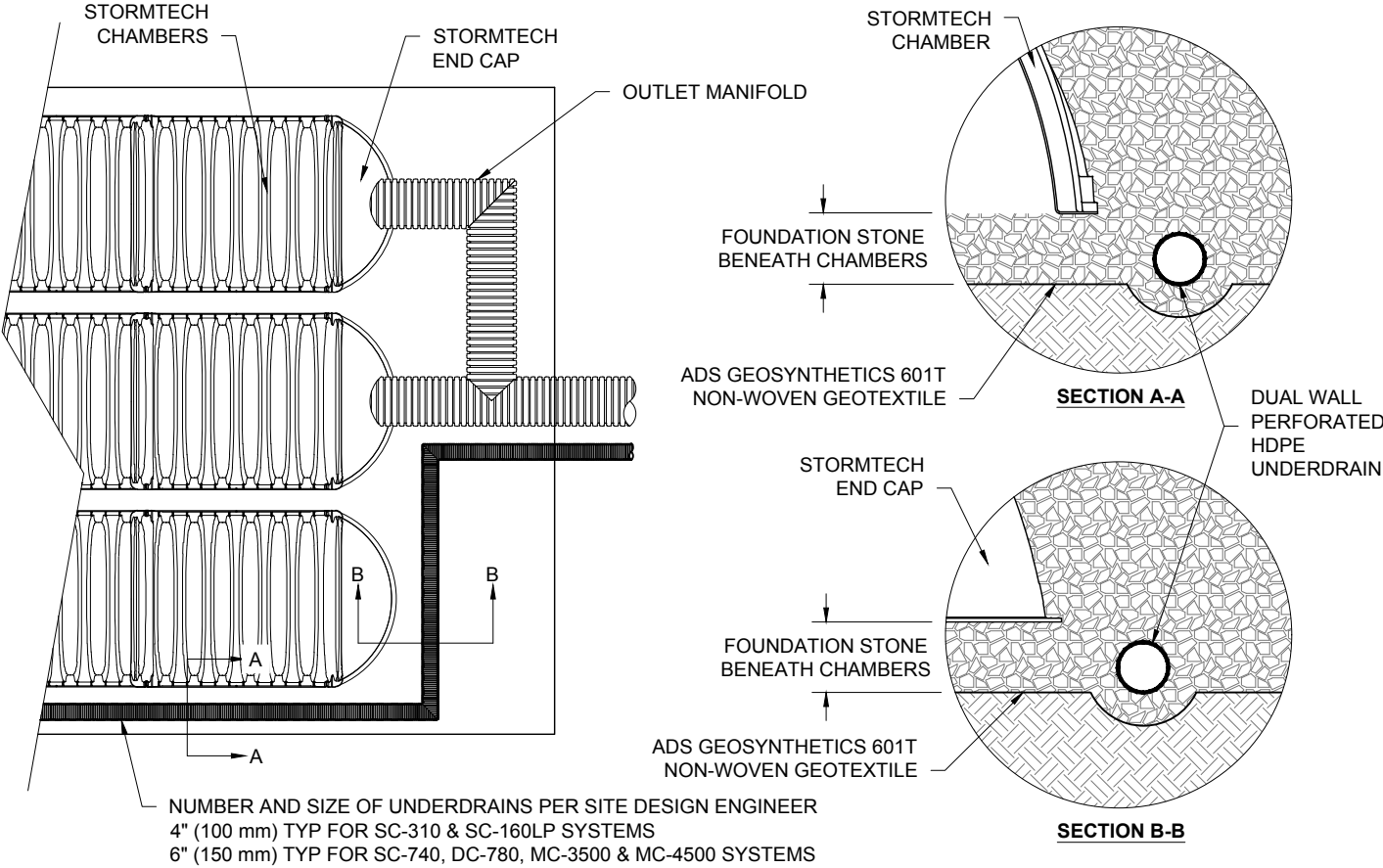


SC-310 6" INSPECTION PORT DETAIL
NTS

REV	DWN	CKD	DESCRIPTION
4/25/2018	PM	RWD	UPDATE PER ENG
07-13-18	JKL	GFI	UPDATED PER ENG. REQUEST

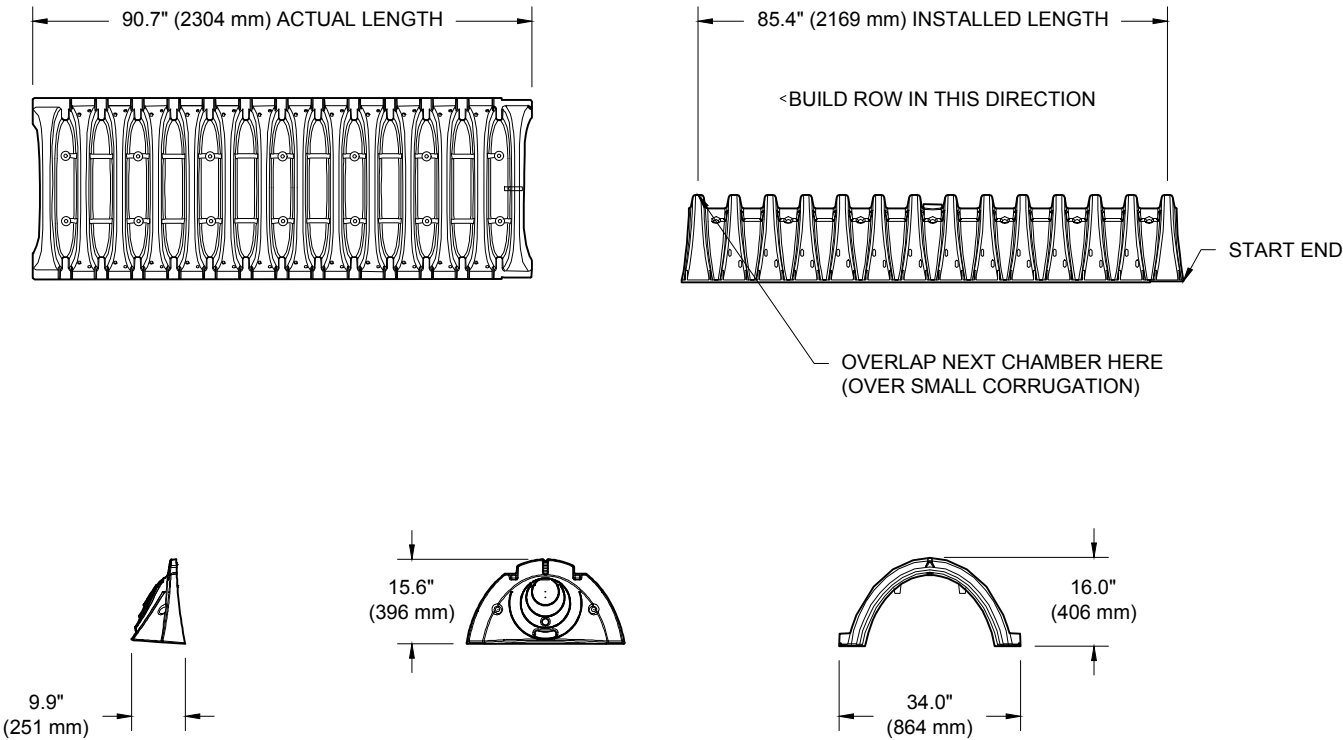
UNDERDRAIN DETAIL

NTS



SC-310 TECHNICAL SPECIFICATION

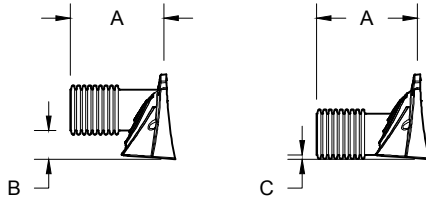
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	34.0" X 16.0" X 85.4"	(864 mm X 406 mm X 2169 mm)
CHAMBER STORAGE	14.7 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	31.0 CUBIC FEET	(0.88 m³)
WEIGHT	35.0 lbs.	(16.8 kg)

*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS



PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC310EPE06T / SC310EPE06TPC	6" (150 mm)	9.6" (244 mm)	5.8" (147 mm)	---
SC310EPE06B / SC310EPE06BPC			---	0.5" (13 mm)
SC310EPE08T / SC310EPE08TPC	8" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	---
SC310EPE08B / SC310EPE08BPC			---	0.6" (15 mm)
SC310EPE10T / SC310EPE10TPC	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	---
SC310EPE10B / SC310EPE10BPC			---	0.7" (18 mm)
SC310EPE12B	12" (300 mm)	13.5" (343 mm)	---	0.9" (23 mm)

ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

HURON MOTOR PRODUCTS

EXTER, ONTARIO -CANADA

DATE: 4/24/2018

DRAWN: PM

PROJECT #: S080669

CHECKED: CJD

DESCRIPTION

4/25/2018 PM RWD UPDATE PER ENG

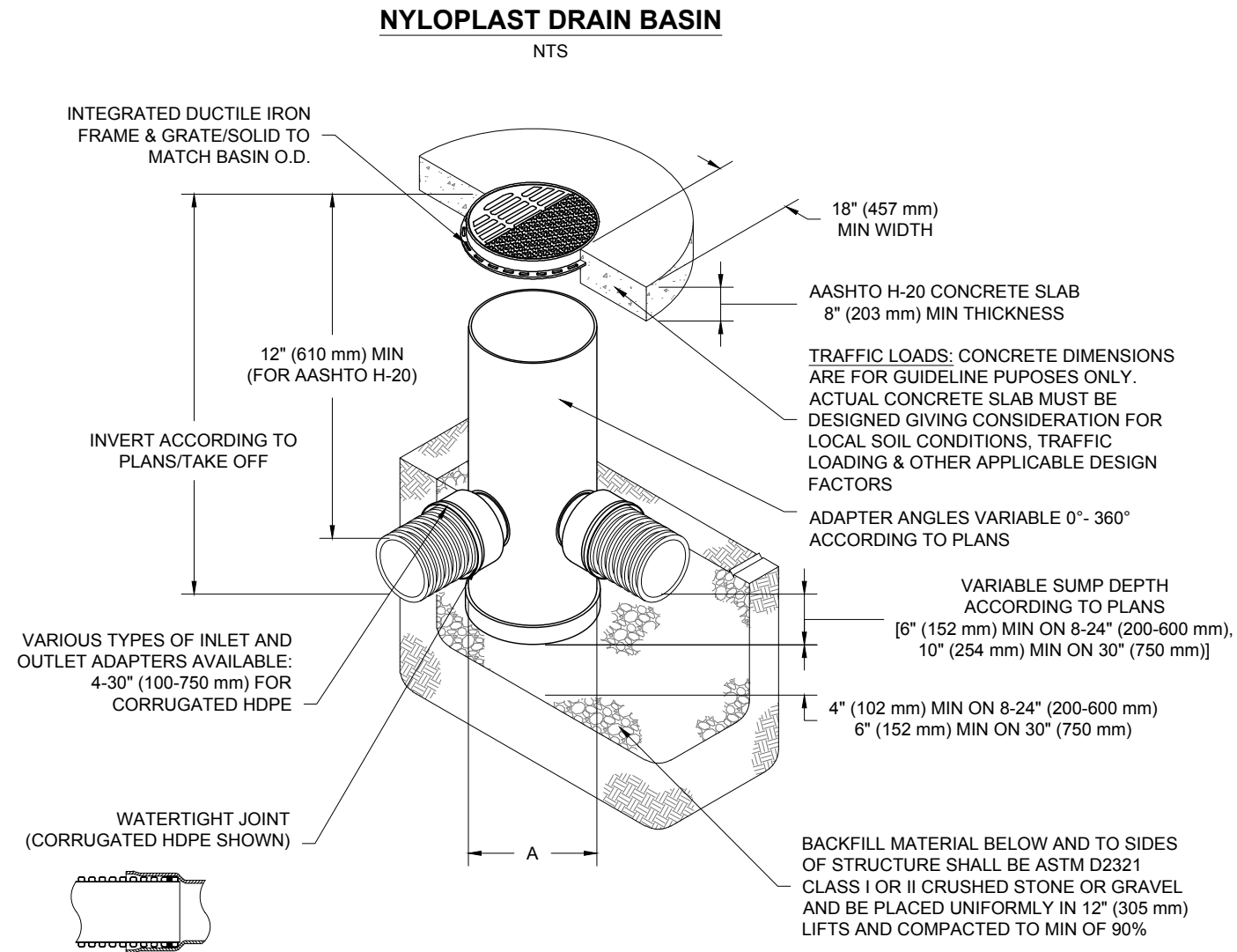
07-13-18 JKL GFI UPDATED PER ENG. REQUEST

StormTech
Detention Retention Water Quality

70 INWOOD ROAD, SUITE 3 | ROCKY HILL | CT | 06067
860-528-8188 | 888-892-2694 | WWW.STORMTECH.COM

4640 TRUEJMAN BLVD
HILLIARD, OH 43026

ADS
ADVANCED DRAINAGE SYSTEMS, INC.



NOTES

- 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION: **WWW.NYLOPLAST-US.COM**
- TO ORDER CALL: **800-821-6710**

A	PART #	GRATE/SOLID COVER OPTIONS		
8" (200 mm)	2808AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
10" (250 mm)	2810AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
12" (300 mm)	2812AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
15" (375 mm)	2815AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
18" (450 mm)	2818AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
24" (600 mm)	2824AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
30" (750 mm)	2830AG	PEDESTRIAN AASHTO H-20	STANDARD AASHTO H-20	SOLID AASHTO H-20

REV

DWN

CKD

4/25/2018

PM

RWD

07-13-18

JKL

GFI

DESCRIPTION

UPDATE PER ENG

REQUEST

DATE:

4/24/2018

DRAWN:

PM


CHECKED:

CJD


PROJECT #:

S080669

3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com


Nyloplast

4640 TRUEJMAN BLVD
HILLIARD, OH 43026


ADS
ADVANCED DRAINAGE SYSTEMS, INC.

6

SHEET
OF

6

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

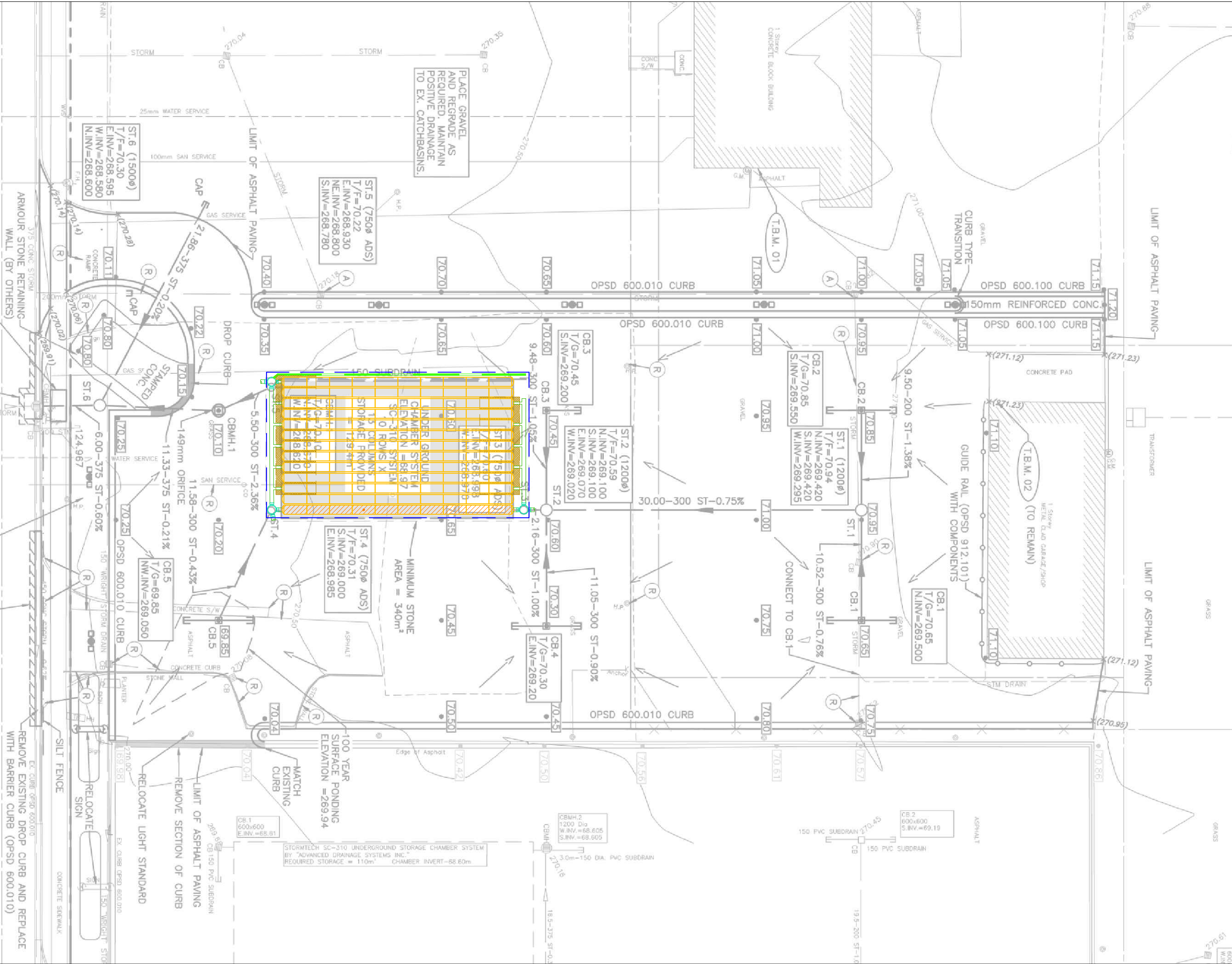


FIGURE 1: SITE PLAN

NOTE: DIMENSIONS ARE TO EDGE OF ASPHALT UNLESS SHOWN OTHERWISE. ADD 200 METRES TO ALL PROPOSED ELEVATIONS.

SITE BENCHMARK: FINISHED FLOOR OF BUILDING TO THE NORTH (WHERE SHOWN) Elevation=271.07m

KNOWNS: (Original Road Allowance) (KING'S HIGHWAY No. 4)

REVISIONS: NO. DATE BY CONSULTANT OR DIVISION



The Corporation of the Municipality of South Huron

By-Law # 82-2018

Confirming By-Law

Being a by-law to adopt, confirm and ratify matters dealt with by the Council of the Corporation of the Municipality of South Huron.

Whereas Section 8 of the *Municipal Act, 2001*, as amended, provides that the powers of a Municipality shall be interpreted broadly to enable it to govern its affairs as it considers appropriate and to enhance the Municipality's ability to respond to municipal issues; and

Whereas Section 5(3) of the *Municipal Act, 2001*, as amended, provides that a municipal power, including a municipality's capacity, rights, powers and privileges under section 9, shall be exercised by by-law unless the municipality is specifically authorized to do otherwise; and

Whereas the Council of The Corporation of the Municipality of South Huron deems it expedient to adopt, confirm and ratify matters dealt with at all meetings of Council;

Now therefore be it resolved that the Council of The Corporation of the Municipality of South Huron enacts as follows:

1. That the proceedings and actions taken by Council and municipal officers of the Corporation of the Municipality of South Huron at the October 1, 2018 Regular Council Meeting in respect of each report, motion, recommendation, by-law and any other business conducted are, except where the prior approval of the Local Planning Appeal Tribunal or other authority is required by law, hereby adopted, ratified and confirmed and shall have the same force and effect as if each and every one of them had been the subject matter of a separate by-law duly enacted.
2. That the Mayor and Members of Council of the Corporation of the Municipality of South Huron are hereby authorized and directed to do all things necessary to give effect to the said actions of Council of the Corporation of the Municipality of South Huron or to obtain approvals where required.
3. That on behalf of The Corporation of the Municipality of South Huron, the Mayor, or the Presiding Officer of Council, and the Clerk or the Chief Administrative Officer, where instructed to do so, are hereby authorized and directed to execute all necessary documents and to affix thereto the Corporate Seal.
4. That this By-Law shall not be amendable or debatable.

Read a first and second time this 1st day of October, 2018

Read a third time and passed this 1st day of October, 2018

Maureen Cole, Mayor

Rebekah Msuya-Collison, Clerk