



TOWNSHIP OF WILMOT

Council Meeting Agenda

Monday, March 27, 2017

Regular Council Meeting

Council Chambers

7:00 P.M.

- 1. MOTION TO CONVENE INTO CLOSED SESSION (IF NECESSARY)**
- 2. MOTION TO RECONVENE IN OPEN SESSION**
- 3. MOMENT OF SILENCE**
- 4. ADDITIONS TO THE AGENDA**
- 5. DISCLOSURE OF PECUNIARY INTEREST UNDER THE MUNICIPAL CONFLICT OF INTEREST ACT**
- 6. MINUTES OF PREVIOUS MEETINGS**

6.1 Council Meeting Minutes March 6, 2017.

Recommendation

THAT the minutes of the following meetings be adopted as presented:

Council Meeting March 6, 2017.

7. PUBLIC MEETINGS**7.1 REPORT NO. DS 2017-05****Zone Change Application 03/17****Jason Droppert****Part of Lot 5 and 6, Concession South of Erb's Road****1601 Erb's Road, St. Agatha****Recommendation**

THAT Council approve Zone Change Application 03/17 made by Jason Droppert, affecting Part of Lot 5 and 6, Concession South of Erb's Road to change the zoning and reduce the minimum lot width and frontage requirements for a portion of the property to Zone 2 and 4.6m respectively, and to reduce the required lot area and frontage of a separate portion of the lands to 15.3ha and 115m respectively.

7.2 REPORT NO. DS 2017-06**Zone Change Application 04/17****Heidi Faul****Part of Lots 143 – 145 and Part of James St. (closed), Plan 532A****Part 1, Plan 58R-12297****320 Waterloo Street, New Hamburg****Recommendation**

THAT Report DS 2017-06 be received for information

8. PRESENTATIONS/DELEGATIONS**9. REPORTS****9.1 CAO – no reports**

9.2 CLERK'S SERVICES**9.2.1 REPORT NO. CL 2017-11**

**Consideration of Drainage Engineer's Report
For the Cressman and Don Myers Municipal Drains 2017
Parts of Lots 25 and 26, Concession 1 Block A
Parts of Lots 23 to 26, Concession 2 Block A
Parts of Lots 23 to 26, Concession 3 Block A
Township of Wilmot, Regional Municipality of Waterloo**

Recommendation

THAT the Drainage Engineer's Report dated March 22, 2017 for the Cressman and Don Myers Municipal Drains 2017, to provide a subsurface outlet for tile drainage waters within the watershed for Parts of Lots 25 and 26, Concession 1 Block A; Parts of Lots 23 to 26, Concession 2 Block A; Parts of Lots 23 to 26, Concession 3 Block A, Township of Wilmot, Regional Municipality of Waterloo, be received, and further;

THAT the date for the Consideration of the Report be scheduled for Monday, April 10th, 2017 at 7:00 pm.

9.3 FINANCE**9.3.1 REPORT NO. FIN 2017-16**

**Honorariums and Expenditures of Council Members and
Council Appointees for the Year Ended December 31, 2016**

Recommendation

THAT Report FIN 2017-16, prepared by the Director of Finance, outlining honorariums and expenditures of Council and Council appointees for the 2016 fiscal year, be adopted.

9.3.2 REPORT NO. FIN 2017-17**Treasurer's Statement – Development Charges Reserve Funds****Recommendation**

THAT the Development Charges Statement for the year ended December 31, 2016, prepared by the Director of Finance, be received for information purposes.

9.3.3 REPORT NO. FIN 2017-18**Treasurer's Statement – Cash-in-Lieu of Parkland Reserve Fund****Recommendation**

THAT the Cash-in-Lieu of Parkland Statement for the year ended December 31, 2016, be received for information purposes, to comply with changes to the Planning Act, resulting from the proclamation of the Smart Growth for Our Communities Act (Bill 73).

9.3.4 REPORT NO. FIN 2017-20**Voice Radio Upgrade Project****Recommendation**

THAT Council authorize the Region of Waterloo to place an order on behalf of the Township of Wilmot for the supply, delivery and installation of the P25 Voice Radio System for the Wilmot Fire Service and Public Works Departments; and further,

THAT all necessary radios and equipment be supplied by Motorola Solutions Canada Inc., for the estimated cost of \$300,000, plus applicable taxes, as outlined in Region of Waterloo Report COR-TRY-17-21.

9.4 PUBLIC WORKS**9.4.1 REPORT NO. PW-2017-03****Culvert Replacement on the Wilmot-Easthope Road****Recommendation**

THAT the tender submitted by Theo Vandenberg Construction Inc. for the replacement of a concrete culvert located on the Wilmot-Easthope Road 230 metres north of Christner Road (Structure No. 42/B-ESH) , in the amount of \$321,995.00, plus applicable taxes, be accepted.

9.4.2 REPORT NO. PW-2017-04**Request for Speed Reduction on Perth Street, New Hamburg****Recommendation**

THAT report PW-2017-04 be received for information purposes.

9.5 DEVELOPMENT SERVICES – no additional reports**9.6 FACILITIES AND RECREATION SERVICES – no reports****9.7 FIRE – no reports****9.8 CASTLE KILBRIDE – no reports****10. CORRESPONDENCE****10.1 Grand River Conservation Authority – GRCA Current, March 2017****10.2 Buckingham Palace – Letter of Thanks on behalf of Her Majesty Queen Elizabeth II****Recommendation**

THAT Correspondence Items 10.1 and 10.2 be received for information.

11. BY-LAWS

11.1 By-law No. 2017-15 – Zone Change Application 03/17, Jason Droppert, Part of Lot 5 and 6, Concession South of Erb's Road, 1601 Erb's Road, St. Agatha

Recommendation

THAT By-law No. 2017-15 be read a first, second and third time and finally passed in Open Council.

12. NOTICE OF MOTIONS

13. QUESTIONS/NEW BUSINESS/ANNOUNCEMENTS

14. BUSINESS ARISING FROM CLOSED SESSION

15. CONFIRMATORY BY-LAW

15.1 By-law No. 2017-16

Recommendation

THAT By-law No. 2017-16 to Confirm the Proceedings of Council at its Meeting held on March 27, 2017 be introduced, read a first, second, and third time and finally passed in Open Council.

16. ADJOURNMENT

Recommendation

THAT we do now adjourn to meet again at the call of the Mayor.



TOWNSHIP OF WILMOT

**Televised
Council Meeting Minutes
Monday, March 6, 2017
Regular Council Meeting
Council Chambers
7:00 P.M.**

Members Present: Mayor L. Armstrong, Councillors A. Junker, P. Roe, B. Fisher and J. Gerber

Staff Present: Chief Administrative Officer G. Whittington, Director of Clerk's Services B. McLeod, Deputy Clerk D. Mittelholtz, Director of Facilities and Recreation Services S. Nancekivell, Director of Development Services H. O'Krafka, Fire Chief M. Raine, Director of Finance R. Tse, Curator/Director of Castle Kilbride T. Loch, Planner/EDO A. Martin, Manager of Accounting P. Kelly, Supervisor of Revenue A. Romany

- 1. MOTION TO CONVENE INTO CLOSED SESSION (IF NECESSARY)**
- 2. MOTION TO RECONVENE IN OPEN SESSION**
- 3. MOMENT OF SILENCE**
- 4. ADDITIONS TO THE AGENDA**
- 5. DISCLOSURE OF PECUNIARY INTEREST UNDER THE MUNICIPAL CONFLICT OF INTEREST ACT**

None disclosed.

6. MINUTES OF PREVIOUS MEETINGS

6.1 Council Meeting Minutes February 13, 2017.

Resolution No. 2017-38

Moved by: A. Junker

Seconded by: B. Fisher

THAT the minutes of the following meetings be adopted as presented:

Council Meeting February 13, 2017.

CARRIED.

Mayor L. Armstrong introduced Tim Ryall, Municipal Advisor, from the Ministry of Municipal Affairs and Housing to give a special presentation.

Mr. Ryall provided greetings from the Ministry and presented a service award to Mrs. Rosita Tse, Director of Finance, in recognition of her years of service and dedication to her profession. He spoke of Mrs. Tse positive attitude and willingness to contribute to the municipal finance field.

Mayor L. Armstrong echoed the sentiments of Mr. Ryall and thanked Mrs. Tse for her years of service to the Township of Wilmot. A round of applause followed.

7. PUBLIC MEETINGS

7.1 REPORT NO. DS 2017-04

Zone Change Application 02/17

Nietsch Holdings Inc. / Kay Law

Part of Lot 13, Concession North of Snyder's Road

Parts 1 and 2, Plan 58R-2581

430 Snyder's Road East, Baden

Resolution No. 2017-39

Moved by: J. Gerber

Seconded by: P. Roe

THAT Council approve Zone Change Application 02/17 made by Nietsch Holdings Inc. / Kay Law, affecting Part of Lot 13, Concession North of Snyder's Road, being Parts 1 and 2, Plan 58R-2581, to add "Assembly of Wood Products" as an additional permitted use on the property, defined as follows:

"a use that excludes wood restoration or finishing (including activities such as wood stripping or cleaning, painting, staining, lacquering or varnishing) and the laminating or application of wood veneer (the use of large amounts of glue and the solvents to clean them)".

CARRIED.

Mayor Armstrong declared the public meeting open and stated that Council would hear all interested parties who wished to speak. He indicated that if the decision of Council is appealed to the Ontario Municipal Board, the Board has the power to dismiss an appeal if individuals do not speak at the public meeting or make written submissions before the by-law is passed.

Mayor Armstrong stated that persons attending as delegations at this meeting are required to leave their names and addresses which will become part of the public record and advised that this information may be posted on the Township's official website along with email addresses, if provided.

The Planner/EDO highlighted the report.

Mayor L. Armstrong asked if there were questions of a technical nature from Council. There were none.

Mayor L. Armstrong asked if the applicant wished to address Council on this matter. The applicant did not address Council.

Mayor L. Armstrong asked twice if anyone else wished to address Council on this matter, and in the absence of any comments declared the public meeting to be closed.

7.2 Court of Revision for Weiss Municipal Drain 2016

7.2.1 Motion to Convene Into Court Of Revision for the Weiss Municipal Drain 2016

Resolution No. 2017-40

Moved by: J. Gerber

Seconded by: A. Junker

That a Court of Revision now be called for the purposes of the Weiss Municipal Drain 2016.

CARRIED

Resolution No. COR 2017-01

Moved by: P. Roe

Seconded by: J. Gerber

THAT Mayor L. Armstrong be appointed as Chair for the Weiss Municipal Drain 2016 Court of Revision.

CARRIED.

Mayor L. Armstrong asked twice if there were any verbal appeals to the Court of Revision. There were none.

The Director of Clerk's Services confirmed that no written appeals had been received for the Court of Revision.

Resolution No. COR 2017-02

Moved by: P. Roe

Seconded by: J. Gerber

THAT the Court of Revision for the Weiss Municipal Drain 2016 be adjourned.

CARRIED.

7.1.2 Motion to Reconvene Into Open Session of Council
Resolution No. 2017-41

Moved by: J. Gerber

Seconded by: P. Roe

THAT we now reconvene into Open Session of Council.

CARRIED.

8. PRESENTATIONS/DELEGATIONS

8.1 Grants to Groups Funding Presentations

Mayor L. Armstrong and the Director of Finance presented funding cheques to the following community organizations:

Discover Your Wilmot - Canada 150

- New Hamburg Canada Day Celebration
- Community Care Concepts
- Wilmot Horticultural Society
- Victoria Day Committee
- Waterloo Oxford District Secondary School

Discover Your Wilmot – A Community of Caring Communities

- Interfaith Community Counselling
- Wilmot Family Resource / Community Care Concepts
- Wilmot Archery Club
- Forest Glen School
- Baden Community Association

Municipal Grant Program

- Wilmot Horticultural Society
- Wilmot Agricultural Society
- New Hamburg Concert Band
- Interfaith Community Counselling
- Wilmot Family Resource Centre

- Waterloo Oxford District Secondary School
- Community Care Concepts
- School Safety Patrollers
- Wilmot Seniors Woodworking
- New Hamburg Firebirds

8.2 Ruth Jones and Pauline Weiland

Women's Day Committee

Ms. Jones thanked Council for inviting the Women's Day Committee to present to them at this meeting. She provided Council with a summary of the 120 year history of Women's Institutes around the world and International Women's Day. She confirmed for Council that the Waterloo District Women's Institute will be hosting a local Women's Day event on April 13th, 2017 starting at 9:30 am. She noted that the morning speakers will be educating attendees on Type I and Type II Diabetes and in the afternoon there will be a celebration of Canada's 150th, a presentation on some of Canada's notable and fascinating women followed by Joyful Sounds Chorus from St. Andrew's Hespeler Presbyterian Church.

Mayor L. Armstrong thanked Mrs. Jones for her presentation and thanked the Women's Institute for the work that they do.

8.3 Lisa Akey and Lee Fitzpatrick

Living Well Festival

Mrs. Akey thanked Council for this opportunity to present on the Interfaith Silent Auction and the Living Well Festival. She advised Council on some recent successes they have had at Interfaith to secure funding to provide wallet cards to local youth about how they or a friend can contact various community resources if they are in need of assistance. She advised Council on the mentoring program they began to increase mental wellness in the community. She concluded her portion of the presentation by highlighting the Annual Silent Auction, a community favourite fundraiser that helps to subsidize their counselling programs.

Mr. Fitzpatrick provided Council with a brief history on the beginnings of the Wilmot Healthy Coalition which began in 1994. He provided Council with a list of the various activities taking place during the Living Well Festival at the Wilmot Recreation Complex on April 28 and 29, 2017. Some of the highlights for the event include the Friday night roller skating and coffee house performances by local artists. He noted that more performers would be welcomed for this event. The Saturday schedule includes a free

bar-be-que served by Wilmot Township Council, Wilmot Fire Department vehicles, fire safety education and information from local paramedics, community trade show and the Interfaith Silent Auction.

8.4 Carol Massel and Kathy Lantz

Lioness Club Fashion Show and Club Update

Ms. Massel thanked Council for this opportunity to talk about New Hamburg Lioness and their fundraising efforts. She advised Council that the Club began in 1980 to help and support the New Hamburg Lions Club but they are now an independent organization. She advised Council on the two monthly meetings the Club conducts in additions to various annual fundraisers such as their longest standing event, the Tree of Light. She noted that all funds raised are donated back to the community.

Ms. Lantz expanded on the annual events including social activities with the Alderview Community, blood donor clinics, bake sale at the Interfaith Silent Auction, the International Peace Poster contest and a spring fashion show that alternates with a Welcome Home Tour. She advised that the fashion show will be taking place on April 19, 2017 and that tickets are available with reserved seating.

Ms. Massel expressed to Council their appreciation for the support their activities have from the community. She noted that their motto is “We Serve” but that they also have fun while helping those in need.

Mayor L. Armstrong thanked Ms. Massel and Ms. Lantz for their presentation and thanked the New Hamburg Lioness for the work they do in the community.

8.5 Brenda Jamieson, AECOM

Charles Organ, Ministry of Transportation

Recommended Transportation Corridor Plan Hwy 7&8

Mr. Organ announced that the Plan is in its final stages. He noted that this has been a large project with many pauses. It has involved six municipalities, several public consultation sessions and numerous stakeholders with contrasting interests.

Ms. Jamieson provided Council with an overview of the previous stages and what the recommendations are for the Highway 7&8 Corridor. Within Wilmot, it is recommended that the intersections at Wilmot-Easthope Road, Peel Street and Hamilton Road remain signalized, that stop sign control remain at Walker Road, that a cul-de-sac be added at

Victoria Street and an interchange be added at Nafziger Road. She noted that the report is being released for public consultation but that, upon approval, implementation may be completed in stages due to various factors including available funding.

Mr. Organ confirmed for Councillor B. Fisher that there are a number of highway expansion projects being announced and that the Highway 6 project is a current focus for this region. He advised that the Highway 7&8 corridor is not a priority at this time but will likely increase in priority as other projects are completed.

Mr. Organ confirmed for Councillor A. Junker that Ministry staff can evaluate the need for an advance green signal for drivers turning left (eastbound) on to the highway from Peel Street.

Mr. Organ confirmed for Councillor P. Roe that the Highway 6 expansion is proceeding as funding has been allocated for the project and engineering is currently underway.

Mayor L. Armstrong concurred that it is difficult to predict when projects such as these can be completed.

9. REPORTS

9.1 CAO

9.1.1 REPORT NO. CAO 2017-01

2017 Municipal Work Program

Resolution No. 2017-42

Moved by: A. Junker

Seconded by: P. Roe

THAT the 2017 Municipal Work Program, as per the report dated March 6, 2017, prepared by the Chief Administrative Officer, be endorsed.

CARRIED.

The CAO highlighted the report.

Councillor J. Gerber noted his appreciation for staff's capacity to meet the accomplishments included in the Work Programs and thanked all staff for their efforts. He commented on the important linkages being undertaken as part of the trail projects

and the impressive coverage the Township has received due to the Prime Ministers Statue project. He noted that the Council For The Day program was omitted as a new initiative. The Director of Clerk's Services confirmed the oversight and added that interest in the program has been expressed.

The Manager of Accounting confirmed for Councillor B. Fisher that the Township is currently discussing a potential continuation of the Discover Your Wilmot program with the Kitchener Waterloo Community Foundation.

The Director of Facilities and Recreation Services advised Councillor A. Junker that any concerns from the construction of the Schmidt Woods Trail will be remedied during the warranty period.

Councillor A. Junker noted his appreciation for the pavement markings in Haysville and in other areas throughout the Township as added safety measures. He echoed the earlier statements from Councillor J. Gerber regarding the number of projects and programs that staff is undertaking and added that the Township should be proud of these accomplishments.

Councillor P. Roe concurred with Councillors J. Gerber and A. Junker emphasizing that these accomplishments are achieved without incurring any debt. He expressed his appreciation for the inclusion of the Arts and Culture Master Plan and that the Curator/Director of Castle Kilbride will be leading the project. He noted that there are potholes and other winter related wear along the paved portion of the Wilmot Line. He requested that cautionary signage be erected.

9.2 CLERK'S SERVICES

9.2.1 REPORT NO. CL 2017-09

Appointment of Engineer

Petition for Drain Improvement

From James Otto / Century Oak Holdings Inc.

Block A, Concession 2, Part of Lot 25, 1628 Walker Road

Township of Wilmot, Regional Municipality of Waterloo

Resolution No. 2017-43

Moved by: J. Gerber

Seconded by: A. Junker

THAT Dietrich Engineering of 155 Frobisher Drive, Waterloo be appointed as the Engineer relative to the Petition for Drain Improvement, From James Otto / Century Oak Holdings Inc., Block A, Concession 2, Part of Lot 25, 1628 Walker Road, Township of Wilmot, Regional Municipality of Waterloo and be authorized to prepare a report under Section 78 (1) of the Drainage Act, R.S.O. 1990, Chapter D. 17.

CARRIED.

The Deputy Clerk highlighted the report.

9.3 FINANCE

9.3.1 REPORT NO. FIN 2017-15

**Ontario Community Infrastructure Fund (OCIF) Application-
Based Component Agreement**

Resolution No. 2017-44

Moved by: J. Gerber

Seconded by: B. Fisher

THAT Finance Report FIN 2017-15, prepared by the Director of Finance, regarding the Ontario Community Infrastructure Fund (OCIF) Application-Based Component Agreement be received for information purposes;

AND FURTHER, THAT the Mayor and Director of Clerk's Services be authorized to execute the contribution agreement with the Ministry of Agriculture, Food and Rural Affairs.

CARRIED.

The Director of Finance highlighted the report.

Councillor J. Gerber noted that this was good news to receive. The CAO confirmed for Councillor J. Gerber that the report with option for repair or replacement of the structure is anticipated for this summer.

Councillor A. Junker noted that he is pleased that the funding has been secured regardless of the preferred option.

Councillor P. Roe reiterated from an earlier meeting that if the structure is to be replaced that its design may allow it to be dismantled and rebuilt as a pedestrian bridge elsewhere.

Councillor B. Fisher echoed the earlier statements from Council that this is good news to receive.

9.4 PUBLIC WORKS – no reports

9.5 DEVELOPMENT SERVICES – no additional reports

9.6 FACILITIES AND RECREATION SERVICES – no reports

9.7 FIRE – no reports

9.8 CASTLE KILBRIDE – no reports

10. CORRESPONDENCE

10.1 Grand River Conservation Authority – Grand Actions, January/February 2017

10.2 Township of Wilmot – Letter of Congratulations to Her Majesty, Queen Elizabeth II, in Recognition of her Sapphire Jubilee

Resolution No. 2017-45

Moved by: P. Roe

Seconded by: B. Fisher

THAT Correspondence Items 10.1 and 10.2 be received for information.

CARRIED.

11. BY-LAWS

11.1 By-law No. 2017-10 – Appointment of a Treasurer for the Corporation of the Township of Wilmot

11.2 By-law No. 2017-11 – Authorization By-law to Execute an Agreement – Ontario Community Infrastructure Fund (OCIF) Application-Based Component Agreement

11.3 By-law No. 2017-12 – Zone Change Application 02/17, Nietsch Holdings Inc. / Kay Law, Part of Lot 13, Concession North of Snyder's Road, Parts 1 and 2, Plan 58R-2581, 430 Snyder's Road East, Baden

Resolution No. 2017-46

Moved by: J. Gerber

Seconded by: A. Junker

THAT By-law Nos. 2017-10, 2017-11 and 2017-12 be read a first, second and third time and finally passed in Open Council.

CARRIED.

Prior to the appointment of a new Director of Finance, Mrs. R. Tse expressed her gratitude to the Mayor, Council and staff for the opportunity to work with them at the Township of Wilmot.

Councillor A. Junker noted how smoothly the budget process flows under the guidance of Mrs. Tse.

12. NOTICE OF MOTIONS

13. QUESTIONS/NEW BUSINESS/ANNOUNCEMENTS

- 13.1 Councillor A. Junker announced to Council that the New Dundee Board of Trade annual pancake breakfast is being held on Saturday, March 11, 2017. He advised that the tickets are \$10 for adults and \$5 for children with all proceeds going towards community improvements.
- 13.2 Councillor A. Junker announced the passing of a former member of Council, Alvin Sararas. Mr. Sararas has long been an active member of the community and he will be greatly missed.
- 13.3 Mayor L. Armstrong announced that he had received "Flat Stanley" which is a project undertaken by a young man from Alberta as part of the Canada 150 celebration. Throughout 2017, "Stanley" will travel across the country, having his photo taken in various communities.

14. BUSINESS ARISING FROM CLOSED SESSION

15. CONFIRMATORY BY-LAW

15.1 By-law No. 2017-13

Resolution No. 2017-47

Moved by: P. Roe

Seconded by: A. Junker

THAT By-law No. 2017-13 to Confirm the Proceedings of Council at its Meeting held on March 6, 2017 be introduced, read a first, second, and third time and finally passed in Open Council.

CARRIED.

16. ADJOURNMENT (8:31 P.M.)

Resolution No. 2017-48

Moved by: B. Fisher

Seconded by: J. Gerber

THAT we do now adjourn to meet again at the call of the Mayor.

CARRIED.

Mayor

Clerk



Township of Wilmot **REPORT**

REPORT NO. DS 2017-05

TO: Council

PREPARED BY: Andrew Martin, Planner/EDO

DATE: March 27, 2017

SUBJECT: Zone Change Application 03/17
Jason Droppert
Part of Lot 5 and 6, Concession South of Erb's Road
1601 Erb's Road, St. Agatha

Recommendation:

That Council approve Zone Change Application 03/17 made by Jason Droppert, affecting Part of Lot 5 and 6, Concession South of Erb's Road to change the zoning and reduce the minimum lot width and frontage requirements for a portion of the property to Zone 2 and 4.6m respectively, and to reduce the required lot area and frontage of a separate portion of the lands to 15.3ha and 115m respectively.

Background:

Notice of the Public Meeting was given to property owners within 120 metres of the subject lands on March 3, 2017. The following is a summary of comments received prior to the Public Meeting.

Public: David Baumbach, 28 Strauss Court – verbal concerns with the potential for increased noise from the presence of a new home.

Agencies:

Region: no objections, but indicating conditions to be required at the consent stage including a road widening and an access permit
GRCA: no objections

Discussion:

The subject lands are designated in part Settlement Residential and in part Agricultural Resource Area in the Township Official Plan, and are zoned Zone 1 (Agricultural) within the Township Zoning By-law.

The subject property is currently developed with a single detached dwelling and accessory structures. An existing house on the property is presently being demolished.

The applicant is proposing to sever one new residential lot from the subject property. To facilitate this severance, this application proposes to rezone the portion of the property located within the St. Agatha Settlement Area – the lands proposed to be severed – to Zone 2 (Residential) and to reduce the minimum lot width and frontage of the rezoned lands to 4.6m. Additionally, the application proposes to reduce the required lot area and frontage of the lands proposed to be retained to 15.3ha and 115m respectively.

The proposed lot configuration is shown on the attached sketch. The lot proposed to be created is located within the existing St. Agatha Settlement Area. The proposed frontage of 4.6m would provide legal frontage to the property, but access would be obtained by way of a right-of-way over the existing access to the property.

In support of the application, the applicant retained the services of a professional engineer to prepare a scoped hydrogeological study to demonstrate that the development of the subject property with an additional single detached dwelling, well and septic system would not have any adverse impacts on water quality for any private well owners in the area. The applicant also conducted testing for nitrate within the well water on the subject property. The Region of Waterloo reviewed the study and tests and was satisfied with the findings.

One property owner on Strauss Court contacted Township staff to voice opposition to the construction of an additional dwelling in the area citing concerns with elevated noise levels that have already been observed since the existing home was constructed on the subject property. The proposed lot is located, at minimum 34m from properties on Strauss Court and separated by a farm parcel; the properties do not abut one another. Any dwelling constructed on the proposed lot would be a minimum of 48m from the rear property lines on Strauss Court and a minimum of 80m from the rear of the home of the concerned property owner. There are ten homes currently closer than 80m to the rear wall of 28 Strauss Court. Given the significant separation and the current density of residential development in the area, staff would suggest that proximity and noise are not significant planning concerns with this application.

Strategic Plan Conformity:

The approval of infilling residential uses reduces the demand for additional greenfield lands to accommodate all residential development which is a strategy in achieving the Township's goal to protect the natural environment.

Financial Considerations:

The application fees, established by the Township of Wilmot Fees and Charges By-law, were collected at the time of application.

Conclusion:

The proposed zone change would facilitate the creation of one new infilling lot within the existing St. Agatha Settlement area boundary. The applicant has demonstrated that severance of the land and development with an additional single detached dwelling, well and septic system would not have any adverse impacts on water quality for any private well owners in the area. Staff support approval of the zone change.

Andrew Martin, MCIP RPP
Planner/EDO

Grant Whittington
Reviewed by CAO





Township of Wilmot **REPORT**

REPORT NO. DS 2017-06

TO: Council

PREPARED BY: Andrew Martin, Planner/EDO

DATE: March 27, 2017

SUBJECT: Zone Change Application 04/17
Heidi Faul
Part of Lots 143 – 145 and Part of James St. (closed), Plan 532A
Part 1, Plan 58R-12297
320 Waterloo Street, New Hamburg

Recommendation:

That Report DS 2017-06 be received for information.

Background:

Notice of the Public Meeting was given to property owners within 120 metres of the subject lands on March 3, 2017. The following is a summary of comments received prior to the Public Meeting.

Public:

Les Fleiszig, 15 Williams Street – concerned with height of building, increased traffic and setback from Williams Street

Agencies:

Region: requiring completion of a noise study
GRCA: no objections

Discussion:

The subject lands are designated Urban Residential in the Township Official Plan, and are zoned Zone 3 (Residential) within the Township Zoning By-law.

The subject property is currently developed with a single detached dwelling that is proposed to be demolished and replaced with a multiple unit dwelling. The current zoning would permit a residential building containing 4 dwelling units to be constructed on the property. This application proposes to allow a residential building containing 6 dwelling units.

To facilitate the proposed development plan, this application also proposes to reduce the front yard setback (Williams Street) from 7.6 to 6.1m and the flankage yard setback (Waterloo Street) from 6.0m to 5.0m.

The attached site plan illustrates the conceptual site redevelopment and photographs of a building similar to what is proposed to be constructed are also included.

The Region of Waterloo requires that the applicant ensure that the proposed development is not adversely affected by anticipated transportation and/or stationary noise impacts through the completion of an Environmental Noise Study. The applicant is aware of this condition and is working towards its completion.

Strategic Plan Conformity:

Holding public meetings to gain input on planning matters promotes an engaged community.

Financial Considerations:

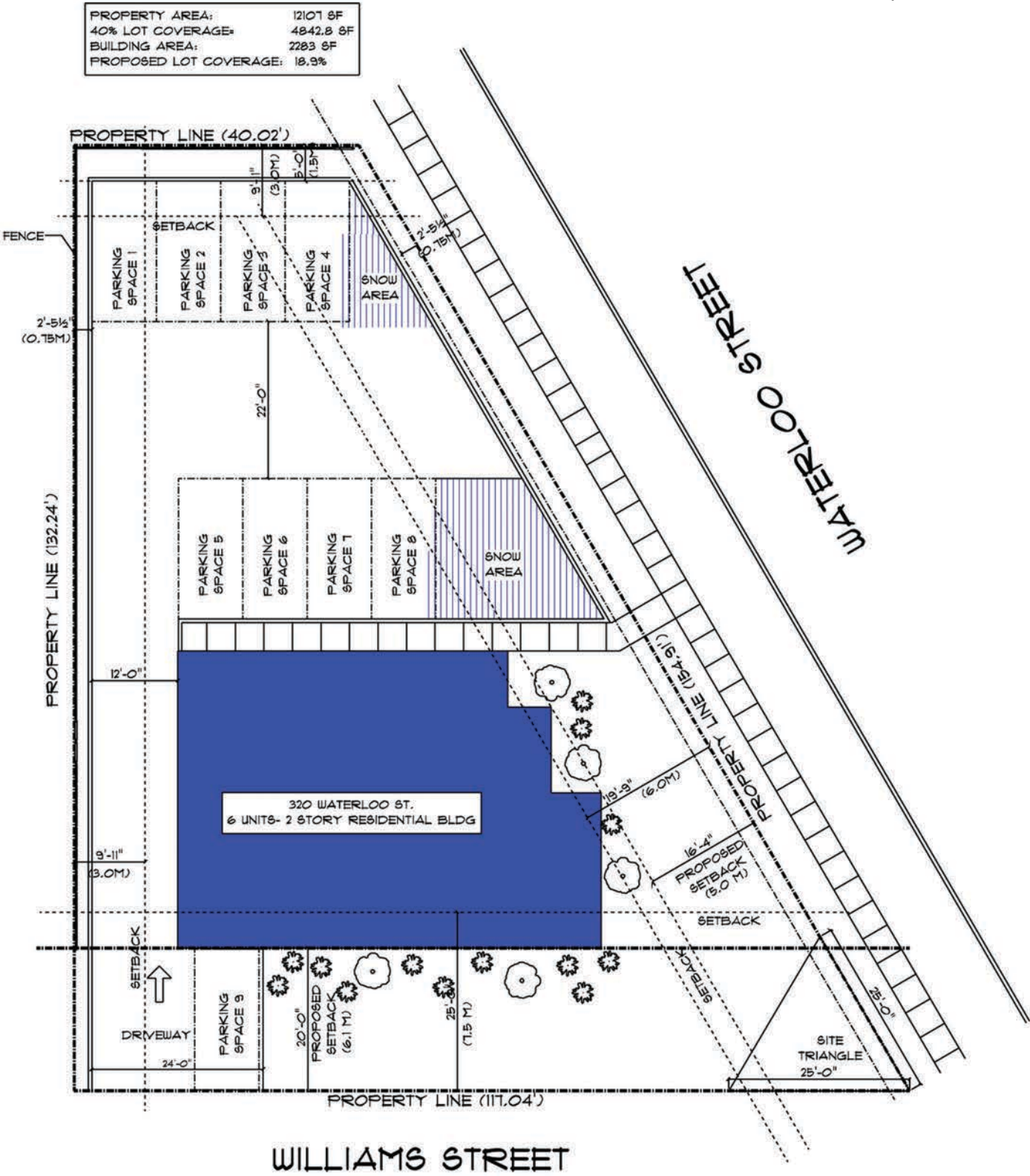
The application fees, established by the Township of Wilmot Fees and Charges By-law, were collected at the time of application.

Conclusion:

At such time as any additional comments received from the Public Meeting are reviewed and Regional clearance relative to the completion of a noise study has been received, staff will return to Council with a detailed report and recommendation on the application.

Andrew Martin, MCIP RPP
Planner/EDO

Grant Whittington
Reviewed by CAO





Conceptual elevation as viewed from proposed parking area



Conceptual elevation as viewed from Williams Street

To: Mr Andrew Martin
Planner/EDO

Below is my reasons I am opposing the application for "Zone Change Application 04/17.

1-Based on the picture on the Township Website, the proposed building is "**Not a two story residential building**", it is as close to three story as possible can. In my opinion the first story is at minimum five feet above ground.

2-There is no indication anywhere on the drawings how high is the building. (The new building should not be any higher than any of the neighbouring buildings.)

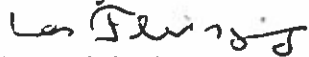
3-The new building should not be closer to the property line on the Williams street side , than the next two house on the street, (Including ours on 15 William street)

4-Putting 9 parking spots on the lot will increase the traffic considerably on William street. (By allowing parking on one side of William street, there is no way for two cars to pass each other if they are going in the opposite direction.)

My name is : Les Fleiszig, and my address is; 15 Williams Street

PS: I sure would like to know what is the opinion of the planning committee or the Town Council on this application.

Sincerely:



Les Fleiszig



Township of Wilmot **REPORT**

REPORT NO. CL2017-11

TO: Council

PREPARED BY: Dawn Mittelholtz, Deputy Clerk

DATE: March 27, 2017

SUBJECT: Consideration of Drainage Engineer's Report
For the Cressman and Don Myers Municipal Drains 2017
Parts of Lots 25 and 26, Concession 1 Block A
Parts of Lots 23 to 26, Concession 2 Block A
Parts of Lots 23 to 26, Concession 3 Block A
Township of Wilmot, Regional Municipality of Waterloo

Recommendation:

THAT the Drainage Engineer's Report dated March 22, 2017 for the Cressman and Don Myers Municipal Drains 2017, to provide a subsurface outlet for tile drainage waters within the watershed for Parts of Lots 25 and 26, Concession 1 Block A; Parts of Lots 23 to 26, Concession 2 Block A; Parts of Lots 23 to 26, Concession 3 Block A, Township of Wilmot, Regional Municipality of Waterloo, be received, and further;

THAT the date for the Consideration of the Report be scheduled for Monday, April 10th, 2017 at 7:00 pm.

Background:

On October 5, 2015 Council accepted the Petition for Drainage Works from Lyle Cressman. On November 23, 2015, Council appointed Dietrich Engineering Limited as the Engineer for this Municipal Drainage project. Council has accepted subsequent petitions from Greg Ramseyer / Ross Roth Sand and Gravel Inc. and James Otto / Century Oak Holdings Inc. on December 5, 2016 and January 16, 2017 respectively. Both petitions were filed following a site meeting for the Lyle Cressman Petition Drain where the appointed Engineer and the Township's Drainage Superintendent recommended that all three petitions could be addressed in one report.

Staff have been advised that the petition from Greg Ramseyer / Ross Roth Sand and Gravel Inc. has been withdrawn, though no written direction or Section 40 Engineer's Report has been received to formally abandon the petition.

Discussion:

On March 22, 2017, Dietrich Engineering Limited filed their Engineer's Report with the Clerk. Pursuant to the requirements of the Drainage Act, within 30 days of the filing of the Report, Council must acknowledge receipt of the Report and send notice of the Council Meeting where the Report will be considered along with a copy of the Report.

A copy of the Report is attached hereto. Notices of the meeting and copies of the Report will be forwarded to the assessed landowners as well as any affected public agencies, as required.

At the April 10, 2017 meeting to consider the Report, the Drainage Engineer will review the Report for Council and answer any questions that may arise. The landowners and all other affected parties will be given the opportunity to voice their concerns relating to any aspect of the Report. At the conclusion of the meeting, the owners affected will be given an opportunity to add or withdraw their names from the petition.

Strategic Plan Conformity:

By proceeding with the requirements of the Drainage Act, Council is supporting the infrastructure within the municipality.

Financial Considerations:

If the municipal drainage works proceed pursuant to the Drainage Act, then the property owners that are affected would be assessed in accordance with the assessment schedule, and levied by by-law upon completion of the project.

The net assessment for these works is estimated as follows:

	Net Assessment on Lands and Roads	Township of Wilmot Assessment
Don Myers Drain	\$183,840	\$36,210
Cressman Drain	<u>\$124,805</u>	<u>\$70,896</u>
Total	<u>\$308,645</u>	<u>107,106</u>

The Council approved 2017 Capital Program included \$70,800 in general levy funding for the Cressman Drain. At the time of compiling the 2017 budget and updated 10-year forecast, the assessment for the Don Myers Drain were unknown. As such, no funding allocations were included for 2017 or 2018 for these works. The 2018 proposed Capital program will be updated to include funding of \$36,210 for the Don Myers Drainage works.

Conclusion:

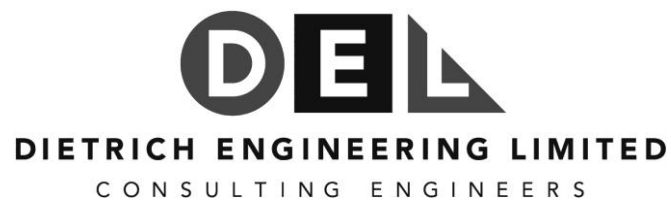
It is staff's recommendation that Council receive the Engineer's Report for the Cressman and Don Myers Municipal Drains 2017 and set April 10, 2017 as the date for the Consideration of said Report.

Dawn Mittelholtz
Deputy Clerk

Barbara McLeod
Director of Clerk's Services

Grant Whittington
Reviewed by CAO

**Cressman and Don Myers Municipal Drains 2017
Township of Wilmot
(Regional Municipality of Waterloo)**



Reference No. 1563

March 22, 2017

Cressman and Don Myers Municipal Drains 2017
Township of Wilmot
(Regional Municipality of Waterloo)

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Specifications for the Construction of Municipal Drainage Works

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DIVISION C-Specification for Tile Drains

DIVISION E-Specification for Drainage Crossings by the Boring Method

DIVISION H-Special Provisions



DIETRICH ENGINEERING LIMITED
CONSULTING ENGINEERS

515 Dotzert Crt., Unit 8, Waterloo, ON, N2L 6A7 | T: (519) 880-2708 | F: (519) 880-2709 | E: mail@dietricheng.com

Waterloo, Ontario

March 22, 2017

Cressman and Don Myers Municipal Drains 2017
Township of Wilmot
(Regional Municipality of Waterloo)

**To the Mayor and Council
of the Township of Wilmot**

Members of Council:

Introduction

We are pleased to present our report on the “Cressman and Don Myers Municipal Drains 2017”, serving parts of Lots 25 and 26, Concession 1 Block A; parts of Lots 23 to 26, Concession 2 Block A; parts of Lots 23 to 26, Concession 3 Block A in the Township of Wilmot, Regional Municipality of Waterloo.

Authority to prepare this report was obtained by a resolution of the Council of The Corporation of The Township of Wilmot at its November 23, 2015 meeting to appoint Dietrich Engineering Limited to prepare an Engineer's Report.

In accordance with your instructions pursuant to a petition received by Council under Section 4 of the Drainage Act, R.S.O. 1990, signed by Lyle Cressman; and a request for improvements received under Section 78 of the Drainage Act, R.S.O. 1990, we have made an examination and survey of the affected area and submit herewith our Report which includes Plan, Profiles and Specifications for this work.

The area requiring drainage is part of Lots 23 and 24, Concession 3 Block A. The petition is valid in compliance with Section 4(1)(a) of the Drainage Act, R.S.O. 1990.

The attached Plan, Profiles, Cross Sections and Details, Drawing Numbers 1 through 5, Reference No.1563, Specifications and the Instructions to Tenderers form part of this report. They show and describe in detail the location and extent of the work to be done and the lands which are affected.

Ramseyer Petition

The “Ramseyer Petition”, served part of Lots 22, Concession 3 Block A in the Township of Wilmot, Regional Municipality of Waterloo.

Authority to address this petition under this Report was obtained by a resolution of the Township of Wilmot Council at its January 16, 2017 meeting to have Dietrich Engineering Limited include this petition in the Engineer's Report for the Cressman Drain.

In accordance with your instructions pursuant to a petition received by Council under Section 4 of the Drainage Act, R.S.O. 1990, signed by Greg Ramseyer, authorized representative of Ross Roth

Sand and Gravel Inc., we submit herewith our findings under Section 40 of the Drainage Act, which states the following:

“Where the engineer finds that a drainage works is not required or is impractical, or cannot be constructed under this Act, the engineer shall forthwith file with the clerk of the initiating municipality a report to that effect, stating the reasons therefor, the amount of the engineer’s fees and other charges and by whom they shall be paid, and the clerk shall forthwith send a notice of the filing of such report to all persons who signed the petition and the matter shall not be further proceeded with unless the decision of the engineer is reversed on appeal.”

The sole petitioner, Greg Ramseyer, has determined that he no longer wishes to proceed with any work on his property under the Drainage Act. He has therefore withdrawn his petition. There are no fees associated with this petition.

History

The existing Don Myers Municipal Drain was originally constructed under the authority of a report prepared by K. Smart Associates Limited, dated November 27, 1995. This report provided for the construction of the Main Drain which included approximately 952 metres of roadside channel and open ditch cleanout and incorporation and the installation of approximately 1,381 metres of 300mm to 525mm concrete tile or plastic pipe.

This report also provided for the construction of Branch ‘A’ which included the installation of approximately 230 metres of 200mm to 300mm diameter concrete tile, plastic tubing or smooth wall steel casing.

In 2014, the portion of the Don Myers Drain located on the Century Oak Holdings Inc. property from Sta. 0+000 to Sta. 0+416 (1995 chainage) was maintained by installing a new 525mm diameter concrete tile.

The Don Myers Drain outlets into the Cressman Municipal Drain, which intern outlets into a natural watercourse.

On-Site Meeting

In accordance with Section 9(1) of the Drainage Act, R.S.O. 1990, an on-site meeting was held on March 22, 2016. Persons in attendance were:

William Dietrich, P. Eng.	Dietrich Engineering Limited
Alastair Duncan, C.E.T.	Township of Wilmot
John Trakalo	Region of Waterloo

Landowners include:

Ken Bean	Ross Roth	Tim Wagler
Lynn Sararus	Steve Bottoms	John Biesel (Birch Villa Farms)
Kevin Cressman	Don Myers	James Cressman
Lyle Cressman	James Otto	Michael Reiner (Sencar Farms)

Information Meeting No. 1

An information meeting was held on November 10, 2016 at the Township of Wilmot Office. Persons in attendance were:

William Dietrich, P. Eng.	Dietrich Engineering Limited
Stephen Brickman, P. Eng.	Dietrich Engineering Limited
Gary Charbonneau	Township of Wilmot
John Kuntze, P. Eng.	Township of Wilmot Drainage Superintendent

Landowners include

Ross Roth	Kevin Cressman	John Biesel (Birch Villa Farms)
Lyle Cressman	James Otto	Michael & John Reiner (Sencar Farms)
Gary Wagler	Don Myers	

The information provided proposed the reconstruction of the open ditch on the Lyle Cressman property (Roll No. 1-065-02) from the outlet into a natural watercourse at Sta. 0+936 to Sta. 1+886; the installation of one farm crossing on the Lyle Cressman property; the realignment of the drain from the Bean Road right-of-way onto the Ann Sweeney property (Roll No. 1-067); the portion of the drain on the Ann Sweeney property shall be a closed drainage system; the cleanout of the existing open portion of the Don Myers Drain from Sta. 1+920 to Sta. 2+083; and the installation of a new road culvert under Regional Road 3 (Walker Road).

This meeting provided a review of the design of the proposed drainage system, the estimated costs of the project and proposed assessments.

Information Meeting No. 2

A second information meeting was held on February 2, 2017 at the Township of Wilmot Office. Persons in attendance were:

William Dietrich, P. Eng.	Dietrich Engineering Limited
Stephen Brickman, P. Eng.	Dietrich Engineering Limited
Gary Charbonneau	Township of Wilmot
John Kuntze, P. Eng.	Township of Wilmot Drainage Superintendent
John Trakalo	Region of Waterloo
Andrea Terella	Grand River Conservation Authority

Landowners include:

James Otto	Kevin Cressman	John Biesel (Birch Villa Farms)
Lynn Sararus	Don Myers	Steve Bottoms
Nick Cressman	Doreen Gemmell	

The information relating to the proposed works on the Cressman portion of the drainage system was essentially the same as the previous information meeting held on November 10, 2016.

This meeting provided a review of the improvements proposed for the Don Myers Drain which included the installation of a closed drainage system from Sta. 2+443 on the Century Oak Holdings Inc. property (Roll No. 1-111) to the outlet into the proposed Cressman Municipal Drain at Sta.

1+886 on the Lyle Cressman property (Roll No. 1-065-02). The information also proposed filling the existing open portion of the Don Myers Drain on the Century Oak Holdings Inc property, and the partial filling of the Don Myers Drain parallel to Regional Road 3 (Walker Road).

This meeting provided a review of the design of the proposed drainage system, the estimated costs of the project and proposed assessments.

Findings

We have made an examination of the drainage area and have found the following:

Cressman Drain

1. The existing drainage channel on the Lyle Cressman property (Roll No. 1-065-02) lacks definition and fails to contain flows resulting in regularly occurring erosion and crop losses.
2. The existing drainage channel alongside Bean Road adjacent the Ann Sweeney property (Roll No. 1-067) is not of sufficient capacity and erosion is threatening the integrity of Bean Road.
3. The existing driveway culvert into the Sweeney property is not of sufficient size nor length and is a poor configuration.
4. The existing natural channel outlet downstream of Sta. 0+936 is of sufficient depth to drain the upstream lands.

Don Myers Drain

1. The existing Don Myers Drain can be improved without difficulty by constructing a closed drainage system to replace the existing open ditch on the Century Oak Holdings Inc. property (Roll No. 1-111).
2. The existing Don Myers Drain adjacent Regional Road 3 can be partially filled without disrupting road right-of-way drainage.
3. The existing culverts under Bean Road and Regional Road 3 (Walker Road) are not of sufficient depth to provide a subsurface drainage outlet for upstream lands.

Recommendations

Cressman Drain

It is our recommendation that:

1. A new drainage channel be constructed on the Lyle Cressman property (Roll No. 1-065-02) to provide a defined channel to adequately convey flows without causing unnecessary erosion.
2. A farm crossing shall be constructed on the Lyle Cressman property at approximate Sta. 1+000.
3. The existing drainage alignment along Bean Road adjacent the Ann Sweeney property (Roll No. 1-067) be relocated off Bean Road and onto private property. This portion of the drainage system shall be a closed drainage system so that the Sweeney property is not obstructed. The closed drainage system has been designed to convey flows generated by a five year rainfall event.

4. The roadside ditch adjacent to Bean Road shall be partially filled and reshaped to convey flows to the downstream side (east) of the Sweeney property, and outlet into the Cressman Drain.
5. A new driveway culvert shall be installed in the Sweeney driveway.
6. This new drainage system from Sta. 0+936 to 1+886 shall be known as the “Cressman Municipal Drain 2017”.
7. The open ditch has been designed to handle the flows generated from a 10 year rainfall event.

Don Myers Drain

It is our recommendation that:

1. A new tile drainage system be constructed from its outlet into the Cressman Drain on the Lyle Cressman property approximately 557 metres to the upper end of the existing open ditch on the Century Oak Holdings Inc property (Roll No. 1-111) at Sta. 2+443.
2. The new tile drainage system includes the installation of 557 metres of 900mm diameter to 675mm diameter pipes.
3. The existing culverts under Bean Road and Regional Road 3 (Walker Road) shall remain in place and continue to operate as surface water outlets.
4. The existing open drain constructed under the authority of the report prepared by K. Smart Associates Limited, dated November 27, 1995, shall be abandoned.
5. The existing open drain on the Century Oak Holdings Inc. property shall be completely filled using excess material from pipe installation and open ditch construction activities.
6. The existing open drain parallel to Regional Road 3 shall be partially filled and reshaped using excess material from pipe installation and open ditch construction activities.
7. This new drainage system shall be known as the “Don Myers Municipal Drain 2017”.
8. The drainage coefficient design standard used for this drain is 38mm of rainfall per 24 hours.

Summary of Proposed Works

The proposed work consists of approximately 834 metres of open ditch excavation; filling in approximately 257 metres of open ditch; the partial filling and reshaping of approximately 265 metres of roadside ditch; the installation of one (1) farm lane culvert; the installation of approximately 116 metres of 1400mm diameter corrugated steel pipe; the installation of approximately 501 metres of 675mm to 825mm diameter field tile; the installation of three (3) concrete catch basins and one (1) concrete junction box; the installation of one reinforced concrete manhole; and the installation of 56 metres of 750mm and 900mm O.D. smooth wall steel casing by the Boring Method.

Working Area and Access

Each landowner shall designate access to and from the working area for both the Cressman and Don Myers Municipal Drains.

Cressman Drain

Open Work – (Sta. 0+936 to Sta. 1+450 and Sta. 1+566 to Sta. 1+886)

The working area for construction purposes shall be a width of eighteen (18) metres on the side of the drain where the excavated material is to be placed and levelled. The working area for maintenance purposes shall be a width of ten (10) metres on the side of the drain where the excavated material is to be placed and levelled.

Closed Work – (Sta. 1+450 to Sta. 1+566)

The working area for construction purposes shall be a width of twenty (20) metres centered on the proposed drain. The working area for maintenance purposes shall be a width of ten (10) metres centered on the proposed drain.

Don Myers Drain – Sta. (1+886 to Sta. 2+443)

The working area for construction purposes shall be a width of twenty (20) metres centered on the proposed drain and a width of thirty (30) metres along the existing ditch. The working area for maintenance purposes shall be a width of ten (10) metres centered on the proposed drain.

Watershed Characteristics

The Drainage Area comprises approximately 250.7 hectares. Land use within the watershed is primarily agricultural with some bush areas.

Soil Characteristics

The Ontario Ministry of Agriculture, Food and Rural Affairs Agricultural Information Atlas indicates that the soil type along the route of the drain as predominantly Colwood Loam.

Allowances

In accordance with Sections 29 and 30 of the Drainage Act, R.S.O. 1990, we determine the allowances payable to Landowners entitled thereto as follows.

Lot or Part	Blk. A Con.	Owner	Roll No.	Right-of-Way (Section 29)	Damages to Lands & Crops (Section 30)	Total Allowances
Cressman Drain						
Pt. 23, 24	3	L. Cressman	1-065-02	\$29,370	\$6,040	\$35,410
Pt. 24	3	A. Sweeney	1-067	\$2,990	\$1,930	\$4,920
Total Allowances, Cressman Drain				\$32,360	\$7,970	\$40,330
Don Myers Drain						
Pt. 25	2	Century Oak Holdings Inc.	1-111	\$3,200	\$4,800	\$8,000
Pt. 25	3	J. & S. Cressman	1-062	\$1,310	\$1,050	\$2,360
Total Allowances, Don Myers Drain				\$4,510	\$5,850	\$10,360
Total Allowances, Cressman and Don Myers Municipal Drains 2017				\$36,870	\$13,820	\$50,690

Total Allowances, under Sections 29 and 30 of the Drainage Act, R.S.O. 1990;
Cressman and Don Myers Municipal Drains 2017

\$50,690

The agricultural land values used for calculating allowances for Right-of-Way was \$40,000/ha.

The allowances for Right-of-Way under Section 29 of the Drainage Act, R.S.O. 1990 were calculated based on 100% of the land value for the average proposed top width of the Cressman Municipal Drain plus a ten metre working width for future maintenance purposes based on 25% of the land value. The allowances for Right-of-Way on the A. Sweeney property (Roll No. 1-067) were calculated based on 25% of the land value for a ten metre Right-of-Way.

The allowances for Right-of-Way under Section 29 of the Drainage Act, R.S.O. 1990 were calculated based on 25% of the land value for a ten metre Right-of-Way along the proposed Don Myers Municipal Drain less Right-of-Way allowances provided in the report prepared by K. Smart Associates Limited, dated November 27, 1995 which authorized the construction of the existing Don Myers Drain.

Estimated Construction Costs

We have made an estimate of the cost of the proposed work which is outlined in detail as follows:

Labour, Equipment, and Materials

A) Cressman Drain

	<u>Description</u>	<u>Quantity</u>	<u>\$/Unit</u>	<u>Total</u>
1)	Open ditch excavation/construction Sta. 0+936 to Sta. 1+450 and Sta. 1+566 to Sta. 1+886 (less regional road crossings) (approx. 3,000m ³ in place volume)	834 m	\$ 12.00	\$ 10,008.00
2)	Stripping and stockpiling topsoil, levelling excavated material, replacing stockpiled topsoil over excavated material (approx. 13m striping/levelling width)	834 m	\$ 18.00	\$ 15,012.00
3)	Clearing and grubbing: Sta. 0+936 to Sta. 0+970 (34m) (bush)	I.s.		\$ 750.00
	Sta. 0+970 to Sta. 1+886 (916m) including stump removal near Sta. 1+510	I.s.		\$ 3,502.00
4)	Place 100mm of topsoil on sideslopes and Hydroseed disturbed side slopes using SoilGuard hydromulch or approved equivalent	5000 m2	\$ 1.90	\$ 9,500.00
5)	Place quarry stone rip-rap protection and geotextile filter material on side slopes (miscellaneous locations) (contingency item)	120 m2	\$ 50.00	\$ 6,000.00
6)	Supply 1 - 10m length of 1400mm diameter, Corrugated Steep Pipe culvert, 2.0mm thickness, Type II Aluminized coating (Cressman Culvert)	10 m	\$ 270.00	\$ 2,700.00
	Installation of 1400mm diameter driveway culvert at Sta. 1+000 complete with quarry stone rip-rap protection and geotextile filter material (20m ²)	I.s.		\$ 5,000.00
7)	Supply 1 - 116m length of 1400mm diameter, 2.0mm thickness corrugated steel pipe culvert (125mm X 25mm corrugations)	116 m	\$ 270.00	\$ 31,320.00
	Installation of 1400mm diameter culvert (Sta. 1+450 to Sta. 1+566) complete with quarry stone rip-rap protection and geotextile filter material (20m ²)	116 m	\$ 115.00	\$ 13,340.00
Sub-Total				<u>\$ 97,132.00</u>

8) Work to be done on the Wilmot Township Road Allowance, Bean Road parallel to Sta. 1+445 to Sta. 1+605

a) Fill in and grade road ditch (approx. 157m) including ditching roadside ditch to main drain at Approx. Sta. 1+445 (approx. 15m) and including placement of topsoil and hydroseeding	172 m	\$ 14.00	\$ 2,408.00
b) Supply 1 - 12m length of 600mm diameter, HDPE driveway culvert (Sweeney Culvert)	12 m	\$ 120.00	\$ 1,440.00
Installation of 600mm diameter driveway culvert at Sta. 1+507 complete with quarry stone rip-rap protection and geotextile filter material (20m ²) and the removal and offsite disposal of the existing laneway pipes	I.s.		\$ 3,000.00
Sub-Total			\$ 6,848.00

**TOTAL ESTIMATED CONSTRUCTION COSTS
CRESSMAN DRAIN**

\$ 103,980.00

B) Don Myers Drain

1) Supply 825mm diameter concrete field tile	139 m	\$ 85.00	\$ 11,820.00
Installation (Sta. 1+922 to Sta. 2+061)	139 m	\$ 40.00	\$ 5,560.00
2) Supply 675mm diameter concrete field tile	360 m	\$ 53.00	\$ 19,080.00
Installation (Sta. 2+083 to Sta. 2+443)	360 m	\$ 38.00	\$ 13,680.00
3) Fill in existing ditch including:			
Cleanout existing ditch of all available topsoil and stockpile - material to be spread over backfilled ditch (257m)	I.s.		\$ 500.00
Import Fill from Cressman Drain and excess fill from tile (Hauling material only - this item excludes final placement of fill) (approx. 1600m ³)	I.s.		\$ 2,800.00
Placement of fill to backfill existing ditch approx. 257m east-west on Century Oak (full enclosure)	I.s.		\$ 3,100.00
Fine grade topsoil on enclosed ditch (approx. 257m)	I.s.		\$ 300.00
Tile connections from north side of ditch	I.s.		\$ 300.00
4) Supply and install 900mm x 1200mm concrete junction box at Sta. 2+436 including connecting existing 525mm diameter pipes to junction box	1 ea.	\$ 2,500.00	\$ 2,500.00
5) Tile connections (intercepted by new tile drain)	I.s.		\$ 740.00
Sub-Total			\$ 60,380.00

6) Work to be done on the Region of Waterloo Road Allowance,
Regional Road 3 (Walker Road) (Sta. 1+894 to Sta. 1+920)

a) Supply 900mm O.D. smooth wall steel casing, 9.53mm wall thickness complete with rodent grate	36 m	\$ 360.00	\$ 12,960.00
Installation of 900mm O.D. Smooth wall steel casing by the Boring Method (Sta. 1+886 to Sta. 1+922)	36 m	\$ 830.00	\$ 29,880.00
b) Supply and install 1800mm diameter concrete manhole at Sta. 1+922	1 ea.	\$ 5,600.00	\$ 5,600.00
c) Extend existing 1400mm x 1000mm C.S.P.A. culvert downstream approximately 2 metres including coupler and supply and placement of backfill material	l.s.		\$ 2,200.00
d) Supply and place quarry stone rip-rap protection and geotextile filter material to transition existing surface pipe to Cressman Drain (approx. 25m ²)	l.s.		\$ 1,500.00

Sub-Total **\$ 52,140.00**

7) Work to be done on the Wilmot Township Road Allowance, Bean Road
(Sta. 2+061 to Sta. 2+083)

a) Supply 750mm O.D. smooth wall steel casing, 9.53mm wall thickness	22 m	\$ 270.00	\$ 5,940.00
Installation of 750mm O.D. Smooth wall steel casing by the Boring Method (Sta. 2+061 to Sta. 2+083)	22 m	\$ 510.00	\$ 11,220.00
b) Supply and install 900mm x 1200mm C.B. at Sta. 2+083	1 ea.	\$ 2,500.00	\$ 2,500.00
c) Supply and install 900mm x 1500mm C.B. at Sta. 2+061	1 ea.	\$ 3,500.00	\$ 3,500.00

Sub-Total **\$ 23,160.00**

8) Work to be done on the Region of Waterloo Road Allowance, Walker Road
(Parallel to Sta. 2+083 to Sta. 2+223)

a) Partial filling of existing ditch including:

Cleanout existing ditch of all available topsoil and stockpile - material to be spread over backfilled ditch (140m)

I.s. \$ 300.00

Import Fill from Cressman Drain and excess fill from tile (Hauling material only - this item excludes final placement of fill) (approx. 400m³)

I.s. \$ 700.00

Placement of fill to partially backfill existing ditch approx. 140m along Region Road

I.s. \$ 1,000.00

Fine grade topsoil on roadside ditch and place hydroseed (approx. 140m)

I.s. \$ 500.00

b) Supply and install 900mm x 1200mm D.I.C.B. offset approx. 20m east of Sta. 2+083 including supply and install of 20m of 375mm diameter HDPE pipe and elbows

I.s. \$ 3,800.00

Sub-Total

\$ 6,300.00

**TOTAL ESTIMATED CONSTRUCTION COSTS
DON MYERS DRAIN**

\$ 141,980.00

Summary of Construction Costs

A) Total Estimated Construction Costs - Cressman Drain
B) Total Estimated Construction Costs - Don Myers Drain

\$ 103,980.00

\$ 141,980.00

TOTAL ESTIMATED CONSTRUCTION COSTS

\$ 245,960.00

Total Estimated Materials

\$ 85,260.00

Total Estimated Labour and Equipment

\$ 160,700.00

**TOTAL ESTIMATED CONSTRUCTION COSTS
CRESSMAN AND DON MYERS MUNICIPAL DRAINS 2017**

\$ 245,960.00

Summary of Costs

Allowances under Sections 29 and 30 of the Drainage Act, R.S.O. 1990	\$ 50,690.00
Total Estimated Construction Costs	\$ 245,960.00
Meetings, survey, design, preparation of preliminary cost estimates, preparation of final drainage report, consideration of report and court of revision	\$ 59,600.00
Preparation of contract documents, contract administration, supervision and inspection of construction	\$ 25,000.00
Contingencies, Interest, and net H.S.T.	\$ 14,750.00
TOTAL ESTIMATED COSTS	
CRESSMAN AND DON MYERS MUNICIPAL DRAINS 2017	\$ 396,000.00

The estimated cost of the work in the Township of Wilmot is \$396,000.00.

Assessment

We assess the cost of this work against the lands and roads liable for assessment for benefit and outlet as shown on the annexed Schedules of Assessment. We have determined that there is no injuring liability assessment involved.

Cressman Drain

Whether or not the Township of Wilmot elects to do the work on their property, parallel to Sta. 1+445 to Sta. 1+605, they shall be assessed the actual increased costs to the drainage works due to the construction and operation of the road as a Special Assessment in addition to any benefit and outlet assessments. The Special Assessment shall be made up of the actual construction costs plus an allowance for administration costs.

Don Myers Drain

Whether or not the Region of Waterloo elects to do the work on their property, Sta. 1+894 to Sta. 1+920 and parallel to Sta. 2+083 to Sta. 2+223, they shall be assessed the actual increased costs to the drainage works due to the construction and operation of the road as Special Assessments in addition to any benefit and outlet assessments. The Special Assessments shall be made up of the actual construction costs plus an allowance for administration costs.

Whether or not the Township of Wilmot elects to do the work on their property, Sta. 2+061 to Sta. 2+083, they shall be assessed the actual increased costs to the drainage works due to the construction and operation of the road as a Special Assessment in addition to any benefit and outlet assessments. The Special Assessment shall be made up of the actual construction costs plus an allowance for administration costs.

The existing open portion of the Don Myers Municipal Drain parallel to Sta. 1+886 to Sta. 2+443 constructed under the report of K. Smart Associates Limited, dated November 27, 1995 shall be abandoned and cease to be a municipal drain after the Cressman and Don Myers Municipal Drains 2017 is constructed.

Grant Eligibility for the Don Myers Municipal Drain

In accordance with Policy No. 2.3.g) of the Agriculture Drainage Infrastructure Program (ADIP) we have determined that the enclosure of the existing open portion of the Don Myers Drain is not eligible for ADIP grants.

Maintenance

After completion, this drain shall be maintained by the Township of Wilmot at the expense of all the lands and roads assessed in the attached Schedules of Assessment for Maintenance and in the same relative proportions until such time as the assessment is changed under the Drainage Act, except for those portions of the drain constructed within road Right-of-Ways. These portions of the drain shall be maintained at the expense of the road authority having jurisdiction over said road.

Respectfully submitted,

DIETRICH ENGINEERING LIMITED



W. J. Dietrich, P.Eng.



Stephen Brickman, P.Eng.
SB/sb



SCHEDULE OF ASSESSMENT FOR CONSTRUCTION
Cressman Municipal Drain 2017
Township of Wilmot

APPROX.							(SEC. 22)		(SEC. 23)		(SEC. 24)		(SEC. 26)		LESS 1/3						
LOT OR	BLK. A	CON.	AFFECTED	OWNER	ROLL	BENEFIT		OUTLET		SPECIAL		SPECIAL		TOTAL		GOV'T		LESS		NET	
PART					NO.				LIABILITY							GRANT		ALLOWANCES		ASSESSMENT	
Pt. 25		1	16.0	K. Bean	(1-176)				\$2,721						\$2,721	\$907				\$1,814	
Pt. 26		1	5.5	T. & K. Wagler	(1-177)				\$930						\$930	\$310				\$620	
Pt. 23		2	2.5	T. & D. Linseman	(1-092)				\$45						\$45	\$15				\$30	
Pt. 24		2	25.1	L. & M. Sararus	(1-112)		\$500		\$1,956						\$2,456	\$819				\$1,637	
Pt. 24		2	7.3	Three Star Turkey Inc.	(1-113)				\$909						\$909	\$303				\$606	
Pt. 24		2	6.6	Birch Villa Farms Ltd.	(1-116)				\$1,078						\$1,078	\$359				\$719	
Pt. 24		2	2.1	Three Star Turkey Inc.	(1-114)				\$362						\$362	\$121				\$241	
Pt. 25		2	40.2	Myersview Farm Inc.	(1-110)				\$6,296						\$6,296	\$2,099				\$4,197	
Pt. 25		2	40.4	Century Oak Holdings Inc.	(1-111)				\$6,560						\$6,560	\$2,187				\$4,373	
Pt. 26		2	11.1	D. Myers	(1-093)				\$1,688						\$1,688	\$563				\$1,125	
Pt. 26		2	27.6	Myersview Farm Inc.	(1-108)				\$5,395						\$5,395	\$1,798				\$3,597	
* Pt. 26		2	0.8	M. Townshend	(1-108-10)				\$155						\$155					\$155	
Pt. 23, 24		3	21.2	L. Cressman	(1-065-02)		\$65,000		\$1,370		\$6,000				\$72,370	\$24,123		\$35,410		\$12,837	
Pt. 23,24		3	0.2	Rosegate Farm Inc.	(1-065)				\$21						\$21	\$7				\$14	
* Pt. 24		3	2.1	A. Sweeney	(1-067)		\$1,000		\$178						\$1,178			\$4,920		-\$3,742	
* Pt. 24		3	0.3	K. Cressman	(1-065-01)		\$500		\$54						\$554					\$554	
* Pt. 24		3	0.7	Nith Valley Mennonite Church	(1-066)				\$135						\$135					\$135	
Pt. 25		3	19.1	J. & S. Cressman	(1-062)		\$5,000		\$2,770						\$7,770	\$2,590				\$5,180	
* Pt. 25		3	0.8	P. Gemmell & D. West-Gemmell	(1-062-01)				\$145						\$145					\$145	
Pt. 26		3	9.5	A. & D. Wagler	(1-061)				\$1,391						\$1,391	\$464				\$927	
Total Assessment on Lands							\$72,000		\$34,159		\$6,000				\$112,159	\$36,665		\$40,330		\$35,164	

SCHEDULE OF ASSESSMENT FOR CONSTRUCTION
Cressman Municipal Drain 2017
Township of Wilmot

LOT OR PART	BLK. A CON.	HECTARES AFFECTED	OWNER	ROLL NO.	(SEC. 22)			(SEC. 23)			(SEC. 24)			(SEC. 26)			LESS 1/3			NET
					BENEFIT	LIABILITY	OUTLET	SPECIAL	BENEFIT	SPECIAL	ASSESSMENT	TOTAL	GOV'T	GRANT	ALLOWANCES	ASSESSMENT				
Huron Road		2.2	Township of Wilmot			\$1,515					\$1,515									\$1,515
Walker Road (Regional Road 3)		5.8	Region of Waterloo		\$15,000	\$3,745					\$18,745									\$18,745
Bean Road		3.6	Township of Wilmot		\$15,000	\$1,581	\$43,500	\$9,300			\$69,381									\$69,381
Total Assessment on Roads					\$30,000	\$6,841	\$43,500	\$9,300			\$89,641									\$89,641
Total Assessment on Lands and Roads,																				
Cressman Municipal Drain 2017					\$102,000	\$41,000	\$49,500	\$9,300			\$201,800									\$124,805

- NOTES:
1. * Denotes lands not eligible for ADIP grants.
 2. The NET ASSESSMENT is the total estimated assessment less a one-third (1/3) Provincial grant, and allowances, if applicable.
 3. The NET ASSESSMENT is provided for information purposes only.

SCHEDULE OF ASSESSMENT FOR CONSTRUCTION
Don Myers Municipal Drain 2017
Township of Wilmot

LOT OR PART	BLK.	APPROX. CON. AHECTARES	AFFECTED	OWNER	ROLL NO.	(SEC. 22) BENEFIT	(SEC. 23) OUTLET LIABILITY	(SEC. 26) SPECIAL ASSESSMENT	TOTAL ASSESSMENT	LESS ALLOWANCES	NET ASSESSMENT
Pt. 25	1	16.0		K. Bean	(1-176)		\$878		\$878		\$878
Pt. 26	1	5.5		T. & K. Wagler	(1-177)		\$300		\$300		\$300
Pt. 24	2	0.1		L. & M. Sararus	(1-112)		\$6		\$6		\$6
Pt. 24	2	3.4		Three Star Turkey Inc.	(1-113)		\$189		\$189		\$189
Pt. 24	2	6.6		Birch Villa Farms Ltd.	(1-116)		\$348		\$348		\$348
Pt. 24	2	2.1		Three Star Turkey Inc.	(1-114)		\$117		\$117		\$117
Pt. 25	2	40.2		Myersview Farm Inc.	(1-110)		\$2,032		\$2,032		\$2,032
Pt. 25	2	40.4		Century Oak Holdings Inc.	(1-111)	\$35,700	\$2,118		\$37,818	\$8,000	\$29,818
Pt. 26	2	11.1		D. Myers	(1-093)		\$545		\$545		\$545
Pt. 26	2	27.6		Myersview Farm Inc.	(1-108)		\$1,742		\$1,742		\$1,742
* Pt. 26	2	0.8		M. Townshend	(1-108-10)		\$50		\$50		\$50
Pt. 25	3	19.1		J. & S. Cressman	(1-062)	\$2,500	\$971		\$3,471	\$2,360	\$1,111
* Pt. 25	3	0.8		P. Gemmell & D. West-Gemmell	(1-062-01)		\$47		\$47		\$47
Pt. 26	3	9.5		A. & D. Wagler	(1-061)		\$449		\$449		\$449
Total Assessment on Lands						\$38,200	\$9,792		\$47,992	\$10,360	\$37,632

SCHEDULE OF ASSESSMENT FOR CONSTRUCTION
Don Myers Municipal Drain 2017
Township of Wilmot

LOT OR PART	BLK. AHECTARES CON. AFFECTED	APPROX. OWNER	ROLL NO.	(SEC. 22) BENEFIT	(SEC. 23) OUTLET LIABILITY	(SEC. 26) SPECIAL ASSESSMENT	TOTAL ASSESSMENT	LESS ALLOWANCES	NET ASSESSMENT
Huron Road	2.2	Township of Wilmot			\$489		\$489		\$489
Walker Road (Regional Road 3)	5.8	Region of Waterloo		\$28,500	\$1,268	\$80,230	\$109,998		\$109,998
Bean Road	3.6	Township of Wilmot		\$4,500	\$801	\$30,420	\$35,721		\$35,721
Total Assessment on Roads				\$33,000	\$2,558	\$110,650	\$146,208		\$146,208
Total Assessment on Lands and Roads,									
Don Myers Municipal Drain 2017				\$71,200	\$12,350	\$110,650	\$194,200	\$10,360	\$183,840

NOTES: 1. * Denotes non-agricultural lands.

2. The costs of the Don Myers Drain are not eligible for ADIP grants.

3. The NET ASSESSMENT is the total estimated assessment less allowances, if applicable.

4. The NET ASSESSMENT is provided for information purposes only.

SCHEDULE OF NET ASSESSMENT FOR CONSTRUCTION
Cressman and Don Myers Municipal Drains 2017
Township of Wilmot

LOT OR PART	CON.	OWNER	ROLL NO.	DON		TOTAL ASSESSMENT	LESS 1/3		LESS ALLOWANCES	NET ASSESSMENT
				CRESSMAN DRAIN	MYERS DRAIN		GOV'T GRANT			
Pt. 25	1	K. Bean	(1-176)	\$2,721	\$878	\$3,599	\$907			\$2,692
Pt. 26	1	T. & K. Wagler	(1-177)	\$930	\$300	\$1,230	\$310			\$920
Pt. 23	2	T. & D. Linseman	(1-092)	\$45		\$45	\$15			\$30
Pt. 24	2	L. & M. Sararus	(1-112)	\$2,456	\$6	\$2,462	\$819			\$1,643
Pt. 24	2	Three Star Turkey Inc.	(1-113)	\$909	\$189	\$1,098	\$303			\$795
Pt. 24	2	Birch Villa Farms Ltd.	(1-116)	\$1,078	\$348	\$1,426	\$359			\$1,067
Pt. 24	2	Three Star Turkey Inc.	(1-114)	\$362	\$117	\$479	\$121			\$358
Pt. 25	2	Myersview Farm Inc.	(1-110)	\$6,296	\$2,032	\$8,328	\$2,099			\$6,229
Pt. 25	2	Century Oak Holdings Inc.	(1-111)	\$6,560	\$37,818	\$44,378	\$2,187		\$8,000	\$34,191
Pt. 26	2	D. Myers	(1-093)	\$1,688	\$545	\$2,233	\$563			\$1,670
Pt. 26	2	Myersview Farm Inc.	(1-108)	\$5,395	\$1,742	\$7,137	\$1,798			\$5,339
* Pt. 26	2	M. Townshend	1-108-10)	\$155	\$50	\$205				\$205
Pt. 23, 24	3	L. Cressman	1-065-02)	\$72,370		\$72,370	\$24,123		\$35,410	\$12,837
Pt. 23, 24	3	Rosegate Farm Inc.	(1-065)	\$21		\$21	\$7			\$14
* Pt. 24	3	A. Sweeney	(1-067)	\$1,178		\$1,178			\$4,920	-\$3,742
* Pt. 24	3	K. Cressman	1-065-01)	\$554		\$554				\$554
* Pt. 24	3	Mill Valley Memorial Church	(1-066)	\$135		\$135				\$135
Pt. 25	3	J. & S. Cressman	(1-062)	\$7,770	\$3,471	\$11,241	\$2,590		\$2,360	\$6,291
* Pt. 25	3	P. Gemmell & D. West-Gemmell	1-062-01)	\$145	\$47	\$192				\$192
Pt. 26	3	A. & D. Wagler	(1-061)	\$1,391	\$449	\$1,840	\$464			\$1,376
Total Assessment on Lands				\$112,159	\$47,992	\$160,151	\$36,665		\$50,690	\$72,796

SCHEDULE OF NET ASSESSMENT FOR CONSTRUCTION
Cressman and Don Myers Municipal Drains 2017
Township of Wilmot

LOT OR PART	CON.	OWNER	ROLL NO.	CRESSMAN DRAIN	DON MYERS DRAIN	TOTAL ASSESSMENT	LESS 1/3 GOV'T GRANT	LESS ALLOWANCES	NET ASSESSMENT
Huron Road		Township of Wilmot		\$1,515	\$489	\$2,004			\$2,004
Walker Road (Regional Road 3)		Region of Waterloo		\$18,745	\$109,998	\$128,743			\$128,743
Bean Road		Township of Wilmot		\$69,381	\$35,721	\$105,102			\$105,102
Total Assessment on Roads				\$89,641	\$146,208	\$235,849			\$235,849
Total Assessment on Lands and Roads, Cressman & Don Myers Municipal Drains				\$201,800	\$194,200	\$396,000	\$36,665	\$50,690	\$308,645

- NOTES:
1. * Denotes lands not eligible for ADIP grants.
 2. The costs of the Don Myers Drain are not eligible for ADIP grants.
 3. The NET ASSESSMENT is the estimated total assessment less a one-third (1/3) Provincial grant, and allowances, if applicable.
 4. The NET ASSESSMENT is provided for information purposes only.

SCHEDULE OF ASSESSMENT FOR MAINTENANCE
Cressman Municipal Drain 2017
Township of Wilmot

LOT OR PART	BLK. A CON.	APPROX. HECTARES AFFECTED	OWNER	ROLL NO.	PORTION OF MAINTENANCE COST
<u>Open Drain</u>					
Pt. 25	1	16.0	K. Bean	(1-176)	5.8%
Pt. 26	1	5.5	T. & K. Wagler	(1-177)	2.0%
Pt. 23	2	2.5	T. & D. Linseman	(1-092)	0.5%
Pt. 24	2	25.1	L. & M. Sararus	(1-112)	8.3%
Pt. 24	2	7.3	Three Star Turkey Inc.	(1-113)	2.6%
Pt. 24	2	6.6	Birch Villa Farms Ltd.	(1-116)	2.3%
Pt. 24	2	2.1	Three Star Turkey Inc.	(1-114)	0.8%
Pt. 25	2	40.2	Myersview Farm Inc.	(1-110)	13.3%
Pt. 25	2	40.4	Century Oak Holdings Inc.	(1-111)	13.9%
Pt. 26	2	11.1	D. Myers	(1-093)	3.6%
Pt. 26	2	27.6	Myersview Farm Inc.	(1-108)	11.3%
* Pt. 26	2	0.8	M. Townshend	(1-108-10)	0.3%
Pt. 23, 24	3	21.2	L. Cressman	(1-065-02)	7.6%
Pt. 23,24	3	0.2	Rosegate Farm Inc.	(1-065)	0.1%
* Pt. 24	3	2.1	A. Sweeney	(1-067)	0.8%
* Pt. 24	3	0.3	K. Cressman	(1-065-01)	0.1%
* Pt. 24	3	0.7	Nith Valley Mennonite Church	(1-066)	0.4%
Pt. 25	3	19.1	J. & S. Cressman	(1-062)	6.4%
* Pt. 25	3	0.8	P. Gemmell & D. West-Gemmell	(1-062-01)	0.3%
Pt. 26	3	9.5	A. & D. Wagler	(1-061)	2.9%
Total Assessment on Lands					83.3%
Huron Road					3.2%
Walker Road (Regional Road 3)					8.3%
Bean Road					5.2%
Total Assessment on Roads					16.7%
Total Assessment on Lands and Roads, Cressman Municipal Drain 2017					100.0%

NOTE: * Denotes lands not eligible for ADIP grants.

SCHEDULE OF ASSESSMENT FOR MAINTENANCE
Cressman Municipal Drain 2017
Township of Wilmot

LOT OR PART	BLK. A CON.	APPROX. HECTARES AFFECTED	OWNER	ROLL NO.	PORTION OF MAINTENANCE COST
<u>L. Cressman Culvert - Sta. 1+000)</u>					
Pt. 25	1	16.0	K. Bean	(1-176)	2.2%
Pt. 26	1	5.5	T. & K. Wagler	(1-177)	0.8%
Pt. 23	2	2.5	T. & D. Linseman	(1-092)	0.2%
Pt. 24	2	25.1	L. & M. Sararus	(1-112)	3.2%
Pt. 24	2	7.3	Three Star Turkey Inc.	(1-113)	1.0%
Pt. 24	2	6.6	Birch Villa Farms Ltd.	(1-116)	0.9%
Pt. 24	2	2.1	Three Star Turkey Inc.	(1-114)	0.3%
Pt. 25	2	40.2	Myersview Farm Inc.	(1-110)	5.2%
Pt. 25	2	40.4	Century Oak Holdings Inc.	(1-111)	5.4%
Pt. 26	2	11.1	D. Myers	(1-093)	1.4%
Pt. 26	2	27.6	Myersview Farm Inc.	(1-108)	4.4%
* Pt. 26	2	0.8	M. Townshend	(1-108-10)	0.1%
Pt. 23, 24	3	21.2	L. Cressman	(1-065-02)	64.0%
Pt. 23,24	3	0.2	Rosegate Farm Inc.	(1-065)	0.1%
* Pt. 24	3	2.1	A. Sweeney	(1-067)	0.3%
* Pt. 24	3	0.3	K. Cressman	(1-065-01)	0.1%
* Pt. 24	3	0.7	Nith Valley Mennonite Church	(1-066)	0.1%
Pt. 25	3	19.1	J. & S. Cressman	(1-062)	2.5%
* Pt. 25	3	0.8	P. Gemmell & D. West-Gemmell	(1-062-01)	0.1%
Pt. 26	3	9.5	A. & D. Wagler	(1-061)	1.1%
Total Assessment on Lands					<u>93.4%</u>
Huron Road					1.3%
Walker Road					3.2%
(Regional Road 3)					
Bean Road					<u>2.0%</u>
Total Assessment on Roads					<u>6.6%</u>
Total Assessment on Lands and Roads,					
Cressman Municipal Drain - L. Cressman Culvert (Sta. 1+000)					<u><u>100.0%</u></u>

NOTE: * Denotes lands not eligible for ADIP grants.

SCHEDULE OF ASSESSMENT FOR MAINTENANCE
Cressman Municipal Drain 2017
Township of Wilmot

LOT OR PART	BLK. A CON.	APPROX. HECTARES AFFECTED	OWNER	ROLL NO.	PORTION OF MAINTENANCE COST
<u>Closed Drain - (Sta. 1+445 to Sta. 1+566)</u>					
Pt. 25	1	16.0	K. Bean	(1-176)	3.5%
Pt. 26	1	5.5	T. & K. Wagler	(1-177)	1.2%
Pt. 24	2	2.0	L. & M. Sararus	(1-112)	0.4%
Pt. 24	2	3.4	Three Star Turkey Inc.	(1-113)	0.7%
Pt. 24	2	6.6	Birch Villa Farms Ltd.	(1-116)	1.4%
Pt. 24	2	2.1	Three Star Turkey Inc.	(1-114)	0.5%
Pt. 25	2	40.2	Myersview Farm Inc.	(1-110)	8.0%
Pt. 25	2	40.4	Century Oak Holdings Inc.	(1-111)	8.4%
Pt. 26	2	11.1	D. Myers	(1-093)	2.2%
Pt. 26	2	27.6	Myersview Farm Inc.	(1-108)	6.9%
* Pt. 26	2	0.8	M. Townshend	(1-108-10)	0.2%
Pt. 23, 24	3	7.1	L. Cressman	(1-065-02)	1.5%
Pt. 23, 24	3	0.2	Rosegate Farm Inc.	(1-065)	0.1%
* Pt. 24	3	0.6	A. Sweeney	(1-067)	0.2%
* Pt. 24	3	0.3	K. Cressman	(1-065-01)	0.1%
* Pt. 24	3	0.7	Nith Valley Mennonite Church	(1-066)	0.2%
Pt. 25	3	19.1	J. & S. Cressman	(1-062)	3.8%
* Pt. 25	3	0.8	P. Gemmell & D. West-Gemmell	(1-062-01)	0.2%
Pt. 26	3	9.5	A. & D. Wagler	(1-061)	1.8%
Total Assessment on Lands					<u>41.3%</u>
Huron Road					1.9%
Walker Road (Regional R					5.0%
Bean Road					<u>51.8%</u>
Total Assessment on Roads					<u>58.7%</u>
Total Assessment on Lands and Roads,					
Cressman Municipal Drain - Closed Drain - (Sta. 1+445 to Sta. 1+566)					<u><u>100.0%</u></u>

NOTE: * Denotes lands not eligible for ADIP grants.

SCHEDULE OF ASSESSMENT FOR MAINTENANCE
Don Myers Municipal Drain 2017
Township of Wilmot

LOT OR PART	BLK. A CON.	APPROX. HECTARES AFFECTED	OWNER	ROLL NO.	PORTION OF MAINTENANCE COST
<u>Sta. 1+920 to Sta. 2+061</u>					
Pt. 25	1	16.0	K. Bean	(1-176)	5.3%
Pt. 26	1	5.5	T. & K. Wagler	(1-177)	1.8%
Pt. 24	2	0.1	L. & M. Sararus	(1-112)	0.1%
Pt. 24	2	3.4	Three Star Turkey Inc.	(1-113)	1.1%
Pt. 24	2	6.6	Birch Villa Farms Ltd.	(1-116)	2.1%
Pt. 24	2	2.1	Three Star Turkey Inc.	(1-114)	0.7%
Pt. 25	2	40.2	Myersview Farm Inc.	(1-110)	12.3%
Pt. 25	2	40.4	Century Oak Holdings Inc.	(1-111)	12.9%
Pt. 26	2	11.1	D. Myers	(1-093)	3.3%
Pt. 26	2	27.6	Myersview Farm Inc.	(1-108)	10.6%
* Pt. 26	2	0.8	M. Townshend	(1-108-10)	0.3%
Pt. 25	3	19.1	J. & S. Cressman	(1-062)	10.9%
* Pt. 25	3	0.8	P. Gemmell & D. West-Gemmell	(1-062-01)	0.3%
Pt. 26	3	9.5	A. & D. Wagler	(1-061)	2.7%
Total Assessment on Lands					<u>64.4%</u>
Huron Road					3.0%
Walker Road (Regional Road 3)					27.7%
Bean Road					<u>4.9%</u>
Total Assessment on Roads					<u>35.6%</u>
Total Assessment on Lands and Roads, Don Myers Municipal Drain 2017					<u><u>100.0%</u></u>

NOTE: * Denotes lands not eligible for ADIP grants.

SCHEDULE OF ASSESSMENT FOR MAINTENANCE
Don Myers Municipal Drain 2017
Township of Wilmot

LOT OR PART	BLK. A CON.	APPROX. HECTARES AFFECTED	OWNER	ROLL NO.	PORTION OF MAINTENANCE COST
<u>Sta. 2+083 to Sta. 2+443</u>					
Pt. 25	1	16.0	K. Bean	(1-176)	4.0%
Pt. 26	1	5.5	T. & K. Wagler	(1-177)	1.4%
Pt. 24	2	0.1	L. & M. Sararus	(1-112)	0.1%
Pt. 24	2	3.4	Three Star Turkey Inc.	(1-113)	0.9%
Pt. 24	2	6.6	Birch Villa Farms Ltd.	(1-116)	1.6%
Pt. 24	2	2.1	Three Star Turkey Inc.	(1-114)	0.5%
Pt. 25	2	40.2	Myersview Farm Inc.	(1-110)	9.2%
Pt. 25	2	35.8	Century Oak Holdings Inc.	(1-111)	38.7%
Pt. 26	2	11.1	D. Myers	(1-093)	2.5%
Pt. 26	2	27.6	Myersview Farm Inc.	(1-108)	7.9%
* Pt. 26	2	0.8	M. Townshend	(1-108-10)	0.2%
Pt. 25	3	7.5	J. & S. Cressman	(1-062)	1.5%
* Pt. 25	3	0.8	P. Gemmell & D. West-Gemmell	(1-062-01)	0.2%
Pt. 26	3	9.5	A. & D. Wagler	(1-061)	2.0%
Total Assessment on Lands					<u>70.7%</u>
Huron Road					2.2%
Walker Road (Regional Road 3)					23.5%
Bean Road					<u>3.6%</u>
Total Assessment on Roads					<u>29.3%</u>
Total Assessment on Lands and Roads, Don Myers Municipal Drain 2017					<u><u>100.0%</u></u>

NOTE: * Denotes lands not eligible for ADIP grants.

SPECIFICATIONS FOR THE CONSTRUCTION OF MUNICIPAL DRAINAGE WORKS

DIVISION A – General Conditions

DIVISION B – Specification for Open Drains

DIVISION C – Specification for Tile Drains

**DIVISION E – Specification for Drainage
Crossings by the Boring Method**

DIVISION H – Special Provisions

DIVISION A

GENERAL CONDITIONS

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DIVISION A

GENERAL CONDITIONS

A.1 SCOPE

The work to be done under this contract consists of supplying all labour, equipment and materials to construct the drainage work as outlined in the Scope of Work, Drawings, General Conditions and other Specifications.

A.2 TENDERS

Tenders are to be submitted on a lump sum basis for the complete works or a portion thereof, as instructed by the Municipality. The Scope of Work must be completed and submitted with the Form of Tender and Agreement. A certified cheque is required as Tender Security, payable to the Treasurer of the Municipality.

All certified cheques, except that of the bidder to whom the work is awarded will be returned within ten (10) days of the time the Contract is awarded. The certified cheque of the bidder to whom the work is awarded will be retained as Contract Security and returned when the Municipality receives a Completion Certificate for the work.

A certified cheque is not required if the Contractor provides an alternate form of Contract Security such as a Performance Bond for 100% of the amount of the Tender or other satisfactory security, if required/permitted by the Municipality. A Performance Bond may also be required to insure maintenance of the work for a period of one (1) year after the date of the Completion Certificate.

A.3 EXAMINATIONS OF SITE, DRAWINGS AND SPECIFICATIONS

The Tenderer must examine the premises and site to compare them with the Drawings and Specifications in order to satisfy himself of the existing conditions and extent of the work to be done before submission of his Tender. No allowance shall subsequently be made on behalf of the Contractor by reason of any error on his part. Any estimates of quantities shown or indicated on the Drawings, or elsewhere are provided for the convenience of the Tenderer. Any use made of these quantities by the Tenderer in calculating his Tender shall be done at his own risk. The Tenderer for his own protection should check these quantities for accuracy.

The standard specifications (Divisions B through G) shall be considered complementary and where a project is controlled under one of the Divisions, the remaining Divisions will apply for miscellaneous works.

In case of any inconsistency or conflict between the Drawings and Specifications, the following order of precedence shall apply:

- Direction of the Engineer
- Special Provisions (Division H)
- Scope of Work
- Contract Drawings
- Standard Specifications (Divisions B through G)
- General Conditions (Division A)

A.4 PAYMENT

Progress payments equal to 87±% of the value of work completed and materials incorporated in the work will be made to the Contractor monthly. An additional ten per cent (10±%) will be paid 45 days after the final acceptance by the Engineer, and three per cent (3±%) of the Contract price may be reserved by the Municipality as a maintenance holdback for a one (1) year period from the date of the Completion Certificate. A greater percentage of the Contract price may be reserved by the Municipality for the same one (1) year period if in the opinion of the Engineer, particular conditions of the Contract requires such greater holdback.

After the completion of the work, any part of this reserve may be used to correct defects developed within that time from faulty workmanship and materials, provided that notice shall first be given to the Contractor and that he may promptly make good such defects.

A.5 CONTRACTOR'S LIABILITY INSURANCE

Prior to commencement of any work, the Contractor shall file with the Municipality evidence of compliance with all Municipality insurance requirements (Liability Insurance, WSIB, etc.) for no less than the minimum amounts as stated in the Purchasing Procedures of the Municipality. All insurance coverage shall remain in force for the entire contract period including the warranty period which expires one year after the date of the Completion Certificate.

The following are to be named as co-insured: Successful Contractor
Sub-Contractor
Municipality
Dietrich Engineering Ltd.

A.6 LOSSES DUE TO ACTS OF NATURE, ETC.

All damage, loss, expense and delay incurred or experienced by the Contractor in the performance of the work, by reason of unanticipated difficulties, bad weather, strikes, acts of nature, or other mischances shall be borne by the Contractor and shall not be the subject of a claim for additional compensation.

A.7 COMMENCEMENT AND COMPLETION OF WORK

The work must commence as specified in the Form of Tender and Agreement. If conditions are unsuitable due to poor weather, the Contractor may be required, at the discretion of the Engineer to postpone or halt work until conditions become acceptable and shall not be subject of a claim for additional compensation.

The Contractor shall give the Engineer a minimum of 48 hours notice before commencement of work. The Contractor shall then arrange a meeting to be held on the site with Contractor, Engineer, and affected Landowners to review in detail the construction scheduling and other details of the work.

If the Contractor leaves the job site for a period of time after initiation of work, he shall give the Engineer and the Municipality a minimum of 24 hours notice prior to returning to the project. If any work is commenced without notice to the Engineer, the Contractor shall be fully responsible for all such work undertaken prior to such notification.

The work must proceed in such a manner as to ensure its completion at the earliest possible date and within the time limit set out in the Form of Tender and Agreement.

A.8 WORKING AREA AND ACCESS

Where any part of the drain is on a road allowance, the road allowance shall be the working area. For all other areas, the working area available to the Contractor to construct the drain is specified in the Special Provisions (Division H).

Should the specified widths become inadequate due to unusual conditions, the Contractor shall notify the Engineer immediately. Where the Contractor exceeds the specified working widths without authorization, he shall be held responsible for the costs of all additional damages.

If access off an adjacent road allowance is not possible, each Landowner on whose property the drainage works is to be constructed, shall designate access to and from the working area. The Contractor shall not enter any other lands without permission of the Landowner and he shall compensate the Landowner for damage caused by such entry.

A.9 SUB-CONTRACTORS

The Contractor shall not sublet the whole or part of this Contract without the approval of the Engineer.

A.10 PERMITS, NOTICES, LAWS AND RULES

The Contractor shall obtain and pay for all necessary permits or licenses required for the execution of the work (but this shall not include MTO encroachment permits, County Road permits permanent easement or rights of servitude). The Contractor shall give all necessary notices and pay for all fees required by law and comply with all laws, ordinances, rules and regulations relating to the work and to the preservation of the public's health and safety.

A.11 RAILWAYS, HIGHWAYS AND UTILITIES

A minimum of 72 hours' notice to the Railway or Highways, exclusive of Saturdays, Sundays, and Statutory Holidays, is required by the Contractor prior to any work activities on or affecting the applicable property. In the case of affected Utilities, a minimum of 48 hours' notice to the utility owner is required.

A.12 ERRORS AND UNUSUAL CONDITIONS

The Contractor shall notify the Engineer immediately of any error or unusual conditions which may be found. Any attempt by the Contractor to correct the error on his own shall be done at his own risk. Any additional cost incurred by the Contractor to remedy the wrong decision on his part shall be borne by the Contractor. The Engineer shall make the alterations necessary to correct errors or to adjust for unusual conditions during which time it will be the Contractor's responsibility to keep his men and equipment gainfully employed elsewhere on the project.

The Contract amount shall be adjusted in accordance with a fair evaluation of the work added or deleted.

A.13 ALTERATIONS AND ADDITIONS

The Engineer shall have the power to make alterations in the work shown or described in the Drawings and Specifications and the Contractor shall proceed to make such changes without causing delay. In every such case, the price agreed to be paid for the work under the Contract shall be increased or decreased as the case may require according to a fair and reasonable evaluation of the work added or deleted. The valuation shall be determined as a result of negotiations between the Contractor and the Engineer, but in all cases the Engineer shall maintain the final responsibility for the decision. Such alterations and variations shall in no way render the Contract void. No claims for a variation or alteration in the increased or decreased price shall be valid unless done in pursuance of an order from the Engineer and notice of such claims made in writing before commencement of such work. In no such case shall the Contractor commence work which he considers to be extra before receiving the Engineer's approval.

A.14 SUPERVISION

The Contractor shall give the work his constant supervision and shall keep a competent foreman in charge at the site.

A.15 FIELD MEETINGS

At the discretion of the Engineer, a field meeting with the Contractor or his representative, the Engineer and with those others that the Engineer deems to be affected, shall be held at the location and time specified by the Engineer.

A.16 PERIODIC AND FINAL INSPECTIONS

Periodic inspections by the Engineer will be made during the performance of the work. If ordered by the Engineer, the Contractor shall expose the drain as needed to facilitate inspection by the Engineer.

Final inspection by the Engineer will be made within twenty (20) days after he has received notice from the Contractor that the work is complete.

A.17 ACCEPTANCE BY THE MUNICIPALITY

Before any work shall be accepted by the Municipality, the Contractor shall correct all deficiencies identified by the Engineer and the Contractor shall leave the site neat and presentable.

A.18 WARRANTY

The Contractor shall repair and make good any damages or faults in the drain that may appear within one (1) year after its completion (as dated on the Completion Certificate) as the result of the imperfect or defective work done or materials furnished if certified by the Engineer as being due to one or both of these causes; but nothing herein contained shall be construed as in any way restricting or limiting the liability of the Contractor under the laws of the Country, Province or Locality in which the work is being done. Neither the Completion Certificate nor any payment there under, nor any provision in the Contract Documents shall relieve the Contractor from his responsibility.

A.19 TERMINATION OF CONTRACT BY THE MUNICIPALITY

If the Contractor should be adjudged bankrupt, or if he should make a general assignment for the benefit of his creditors, or if a receiver should be appointed on account of his insolvency, or if he should refuse or fail to supply enough properly skilled workmen or proper materials after having received seven (7) days notice in writing from the Engineer to supply additional workmen or materials to commence or complete the works, or if he should fail to make prompt payment to Sub-Contractors, or for material, or labour, or persistently disregards laws, ordinances, or the instruction of the Engineer, or otherwise be guilty of a substantial violation of the provisions of the Contract, then the Municipality, upon the certificate of the Engineer that sufficient cause exists to justify such action, may without prejudice to any other right or remedy, by giving the Contractor written notice, terminate the employment of the Contractor and take possession of the premises, and of all materials, tools and appliances thereon, and may finish the work by whatever method the Engineer may deem expedient but without delay or expense. In such a case, the Contractor shall not be entitled to receive any further payment until the work is finished. If the unpaid balance of the Contract price will exceed the expense of finishing the work including compensation to the Engineer for his additional services and including the other damages of every name and nature, such excess shall be paid by the Contractor. If such expense will exceed such unpaid balance, the Contractor shall pay the difference to the Municipality. The expense incurred by the Municipality, as herein provided, shall be certified by the Engineer.

If the Contract is terminated by the Municipality due to the Contractor's failure to properly commence the works, the Contractor shall forfeit the certified cheque bid deposit and furthermore shall pay to the Municipality an amount to cover the increased costs, if any, associated with a new Tender for the Contract being terminated.

If any unpaid balance and the certified cheque do not match the monies owed by the Contractor upon termination of the Contract, the Municipality may also charge such expense against any money which may thereafter be due to the Contractor from the Municipality.

A.20 TESTS

The cost for the testing of materials supplied to the job by the Contractor shall be borne by the Contractor. The Engineer reserves the right to subject any lengths of any tile or pipe to a competent testing laboratory to ensure the adequacy of the tile or pipe. If any tile supplied by the Contractor is determined to be inadequate to meet the applicable A.S.T.M. standards, the Contractor shall bear full responsibility to remove and/or replace all such inadequate tile in the Contract with tile capable of meeting the A.S.T.M. Standards.

A.21 POLLUTION

The Contractor shall keep their equipment in good repair. The Contractor shall refuel or repair equipment away from open water.

If polluted material from construction materials or equipment is caused to flow into the drain, the Contractor shall immediately notify the Ministry of the Environment, and proceed with the Ministry's protocols in place to address the situation.

A.22 SPECIES AT RISK

If a Contractor encounters a known Species at Risk as designated by the MNR or DFO, the Contractor shall notify the Engineer immediately and follow the Ministry's guidelines to deal with the species.

A.23 ROAD CROSSINGS

This specification applies to all road crossings (Municipality, County, Regional, or Highway) where no specific detail is provided on the drawings or in the standard specifications. This specification in no way limits the Road Authority's regulations governing the construction of drains on their Road Allowance.

A.23.1 Road Occupancy Permit

Where applicable, the Contractor must submit an application for a road occupancy permit to the Road Authority and allow a minimum of five (5) working days for its review and issuance.

A.23.2 Road Closure Request and Construction Notification

The Contractor shall submit written notification of construction and request for road closure (if applicable) to the Road Authority and the Engineer for review and approval a minimum of five (5) working days prior to proceeding with any work on the road allowance. The Contractor shall be responsible for notifying all applicable emergency services, schools, etc. of the road closure or construction taking place.

A.23.3 Traffic Control

The Contractor shall supply flagmen, and warning signs and ensure that detour routes are adequately signed in accordance with no less than the minimum standards as set out in the Ontario Traffic Manual's Book 7.

A.23.4 Weather

No construction shall take place during inclement weather or periods of poor visibility.

A.23.5 Equipment

No construction material and/or equipment is to be left within three (3) metres of the travelled portion of the road overnight or during periods of inclement weather.

If not stated on the drawings, the road crossing shall be constructed by open cut method. Backfill from the top of the cover material over the subsurface pipe or culvert to the under side of the road base shall be Granular "B". The backfill shall be placed in lifts not exceeding 300mm in thickness and each lift shall be thoroughly compacted to 98% Standard Proctor. Granular "B" road base for County Roads and Highways shall be placed to a 450mm thickness and Granular "A" shall be placed to a thickness of 200mm. Granular road base materials shall be thoroughly compacted to 100% Standard Proctor.

Where the road surface is paved, the Contractor shall be responsible for placing HL-8 Hot Mix Asphalt patch at a thickness of 50mm or of the same thickness as the existing pavement structure. The asphalt patch shall be flush with the existing roadway on each side and without overlap.

Excavated material from the trench beyond 1.25 metres from the travelled portion or beyond the outside edge of the gravel shoulder may be used as backfill in the trench in the case of covered drains. The material shall be compacted in lifts not exceeding 300mm.

A.24 LANEWAYS

All pipes crossing laneways shall be backfilled with material that is clean, free of foreign material or frozen particles and readily tamped or compacted in place unless otherwise specified. Laneway culverts on open ditch projects shall be backfilled with material that is not easily erodible. All backfill material shall be thoroughly compacted as directed by the Engineer.

Culverts shall be bedded with a minimum of 300mm of granular material. Granular material shall be placed simultaneously on each side of the culvert in lifts not exceeding 150mm in thickness and compacted to 95% Standard Proctor Density. Culverts shall be installed a minimum of 10% of the culvert diameter below design grade with a minimum of 450mm of cover over the pipe unless otherwise noted on the Drawings.

The backfill over culverts and subsurface pipes at all existing laneways that have granular surfaces on open ditch and closed drainage projects shall be surfaced with a minimum of 300mm of Granular "B" material and 150mm of Granular "A" material. All backfill shall be thoroughly compacted as directed by the Engineer. All granular material shall be placed to the full width of the travelled portion.

Any settling of backfilled material shall be repaired by or at the expense of the Contractor during the warranty period of the project and as soon as required.

A.25 FENCES

No earth is to be placed against fences and all fences removed by the Contractor shall be replaced by him in as good a condition as found. Where practical the Contractor shall take down existing fences in good condition at the nearest anchor post and roll it back rather than cutting the fence and attempting to patch it. The replacement of the fences shall be done to the satisfaction of the Engineer. Any fences found in such poor condition where the fence is not salvageable, shall be noted and verified with the Engineer prior to commencement of work.

Fences damaged beyond repair by the Contractor's negligence shall be replaced with new materials, similar to those materials of the existing fence, at the Contractor's expense. The replacement of the fences shall be done to the satisfaction of the Landowner and the Engineer.

Any fences paralleling an open ditch that are not line fences that hinder the proper working of the excavating machinery, shall be removed and rebuilt by the Landowner at his own expense.

The Contractor shall not leave fences open when he is not at work in the immediate vicinity.

A.26 LIVESTOCK

The Contractor shall provide each landowner with 48 hours notice prior to removing any fences along fields which could possibly contain livestock. Thereafter, the Landowner shall be responsible to keep all livestock clear of the construction areas until further notified. The Contractor shall be held responsible for loss or injury to livestock or damage caused by livestock where the Contractor failed to notify the Landowner, or through negligence or carelessness on the part of the Contractor.

A.27 STANDING CROPS

The Contractor shall be responsible for damages to standing crops which are ready to be harvested or salvaged along the course of the drain and access routes if the Contractor has failed to notify the Landowners 48 hours prior to commencement of the work on that portion of the drain.

A.28 SURPLUS GRAVEL

If as a result of any work, gravel or crushed stone is required and not all the gravel or crushed stone is used, the Contractor shall haul away such surplus material.

A.29 IRON BARS

The Contractor is responsible for the cost of an Ontario Land Surveyor to replace any iron bars that are altered or destroyed during the course of the construction.

A.30 RIP-RAP

Rip-rap shall be quarry stone rip-rap material and shall be the sizes specified in the Special Provisions. Broken concrete shall not be used as rip-rap unless otherwise specified.

A.31 CLEARING, GRUBBING AND BRUSHING

This specification applies to all brushing where no specific detail is provided on the drawings or in the Special Provisions.

The Contractor shall clear, brush and stump trees from within the working area that interfere with the installation of the drainage system.

All trees, limbs and brush less than 150mm in diameter shall be mulched. Trees greater than 150mm in diameter shall be cut and neatly stacked in piles designated by the Landowners.

A.32 RESTORATION OF LAWNS

This specification applies to all lawn restoration where no specific detail is provided on the drawings or in the Special Provisions and no allowance for damages has been provided under Section 30 of the Drainage Act RSO 1990 to the affected property.

The Contractor shall supply "high quality grass seed" and the seed shall be broadcast by means of an approved mechanical spreader. All areas on which seed is to be placed shall be loose at the time of broadcast to a depth of 25mm. Seed and fertilizer shall be spread in accordance with the supplier's recommendations unless otherwise directed by the Engineer. Thereafter it will be the responsibility of the Landowner to maintain the area in a manner so as to promote growth.

DIVISION B

SPECIFICATIONS FOR OPEN DRAINS

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DIVISION B

SPECIFICATIONS FOR OPEN DRAINS

B.1 ALIGNMENT

The drain shall be constructed in a straight line and shall follow the course of the present drain or water run unless noted on the drawings. Where there are unnecessary bends or irregularities on the existing course of the drain, the Contractor shall contact the Engineer before commencing work to verify the manner in which such irregularities or bends may be removed from the drain. All curves shall be made with a minimum radius of fifteen (15) metres from the centre line of the drain.

B.2 PROFILE

The Profile Drawing shows the depth of cuts from the top of the bank to the final invert of the ditch in metres and decimals of a metre, and also the approximate depth of excavated material from the bottom of the existing ditch to the final invert of the ditch. These cuts are established for the convenience of the Contractor; however, bench marks (established along the course of the drain) will govern the final elevation of the drain. The location and elevation of the bench marks are given on the Profile Drawing. Accurate grade control must be maintained by the Contractor during ditch excavation.

B.3 EXCAVATION

The bottom width and the side slopes of the ditch shall be those shown on the drawings. If the channel cross-section is not specified it shall be a one metre bottom width with 1.5(h):1(v) side slopes. At locations along the drain where the cross section dimensions change, there shall be a transitional length of not less than 10:1 (five metre length to 0.5 metre width differential). Where the width of the bottom of the existing ditch is sufficient to construct the design width, then construction shall proceed without disturbing the existing banks.

Where existing side slopes become unstable, the Contractor shall immediately notify the Engineer. Alternative methods of construction and/or methods of protection will then be determined prior to continuing work.

Where an existing drain is being relocated or where a new drain is being constructed, the Contractor shall strip the topsoil for the full width of the drain, including the location of the spoil pile. Upon completion of levelling, the topsoil shall be spread to an even depth across the full width of the spoil.

An approved hydraulic excavator shall be used to carry out the excavation of the open ditch unless otherwise directed by the Engineer.

B.4 EXCAVATED MATERIAL

Excavated material shall be placed on the low side of the drain or opposite trees and fences. The Contractor shall contact all Landowners before proceeding with the work to verify the location to place and level the excavated material.

No excavated material shall be placed in tributary drains, depressions, or low areas which direct water behind the spoil bank. The excavated material shall be placed and levelled to a maximum depth of 200 mm, unless instructed otherwise and commence a minimum of one (1) metre from the top of the bank. The edge of the spoil bank away from the ditch shall be feathered down to the existing ground; the edge of the spoil bank nearest the ditch shall have a maximum slope of 2(h):1(v). The material shall be levelled such that it may be cultivated with ordinary farm equipment without causing undue hardship to the farm machinery and farm personnel. No excavated material shall cover any logs, brush, etc. of any kind.

Any stones or boulders which exceed 300mm in diameter shall be removed and disposed of in a location specified by the Landowner.

Where it is necessary to straighten any unnecessary bends or irregularities in the alignment of the ditch or to relocate any portion or all of an existing ditch, the excavated material from the new cut shall be used for backfilling the original ditch. Regardless of the distance between the new ditch and the old ditch, no extra compensation will be allowed for this work and must be included in the Contractor's lump sum price for the open work.

B.5 EXCAVATION AT EXISITING BRIDGE AND CULVERT SITES

The Contractor shall excavate the drain to the full specified depth under all bridges and to the full width of the structure. Temporary bridges may be carefully removed and left on the bank of the drain but shall be replaced by the Contractor when the excavation is complete. Permanent bridges must, if at all possible, be left intact. All necessary care and precautions shall be taken to protect the structure. The Contractor shall notify the Landowner if excavation will expose the footings or otherwise compromise the structural integrity of the structure.

The Contractor shall clean through all pipe culverts to the grade and width specified on the profile.

B.6 PIPE CULVERTS

All pipe culverts shall be installed in accordance with the standard detail drawings. If couplers are required, five corrugation couplers shall be used for up to and including 1200mm diameter pipes and 10 corrugation couplers for greater than 1200mm diameter pipes.

When an existing crossing is being replaced, the Contractor may backfill the new culvert with the existing native material that is free of large rocks and stones. The Contractor is responsible for any damage to a culvert pipe that is a result of rocks or stones in the backfill.

B.7 RIP-RAP PROTECTION FOR CULVERTS

Quarry stone rip-rap shall be used as end treatment for new culverts and placed on geotextile filter material (Mirafi 160N or approved equal). The rip-rap shall be adequately keyed in along the bottom of the slope, and shall extend to the top of the pipe or as directed on the drawings. The maximum slope for rip-rap shall be 1(h):1(v) or as directed by the Engineer.

The Contractor shall be responsible for any defects or damages that may develop in the rip-rap or the earth behind the rip-rap that the Engineer deems to have been fully or partially caused by faulty workmanship or materials.

B.8 CLEARING, GRUBBING AND MULCHING

Prior to excavation, all trees, scrub, fallen timber and debris shall be removed from the side slopes of the ditch and for such a distance on the working side so as to eliminate any interference with the construction of the drain or the spreading of the spoil. The side slopes shall be neatly cut and cleared flush with the slope whether or not they are affected directly by the excavation. With the exception of large stumps causing damage to the drain, the side slopes shall not be grubbed. All other cleared areas shall be grubbed and the stumps put into piles for disposal by the Landowner.

All trees or limbs 150mm or larger, that is necessary to remove, shall be cut, trimmed and neatly stacked in the working width for the use or disposal by the Landowner. Brush and limbs less than 150mm in diameter shall be mulched. Clearing, grubbing and mulching shall be carried out as a separate operation from the excavation of the ditch, and shall not be completed simultaneously at the same location.

B.9 TRIBUTARY TILE OUTLETS

All tile outlets in existing ditches shall be marked by the Landowner prior to excavation. The Contractor shall guard against damaging the outlets of tributary drains. Any tile drain outlets that were marked or noted on the drawings and are subsequently damaged by the Contractor shall be repaired by the Contractor at his expense. The Landowner shall be responsible for repairs to damaged tile outlets that were not marked.

B.10 SEEDING

The side slopes where disturbed shall be seeded using an approved grass seed mixture. The grass seed shall be applied the same day as the excavation of the open ditch.

Grass seed shall be fresh, clean and new crop seed, meeting the requirements of the MTO and composed of the following varieties mixed in the proportion by weight as follows:

- 55% Creeping Red Fescue
- 40% Perennial Rye Grass
- 5% White Clover

Grass seed shall be applied at the rate of 100 kg/ha.

B.11 HYDRO SEEDING

The areas specified in the contract document shall be hydro seeded and mulched upon completion of construction in accordance with O.P.S.S. 572.

B.12 HAND SEEDING

Placement of the seed shall be of means of an approved mechanical spreader.

B.13 COMPLETION

At the time of completion and final inspection, all work in the Contract shall have the full dimensions and cross-sections specified without any allowance for caving of banks or sediment in the ditch bottom.

DIVISION C

SPECIFICATIONS FOR TILE DRAINS

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DIVISION C

SPECIFICATIONS FOR TILE DRAINS

C.1 PIPE MATERIALS

C.1.1 Concrete Tile

Concrete drain tile shall conform to the requirements of the most recent A.S.T.M. specification for Heavy-Duty Extra Quality drain tile. All tile with diameters less than 600mm shall have a pipe strength of 1500D. All tile with diameters 600mm or larger shall have a pipe strength of 2000D.

All tile furnished shall be subject to the approval of the Engineer. All rejected tile are to be immediately removed from the site.

C.1.2 High Density Polyethylene (HDPE) Pipe

All HDPE pipe shall be dual-wall corrugated drainage pipe with a smooth inner wall. HDPE pipe shall have a minimum stiffness of 320 kPa at 5% deflection.

Unless otherwise noted, all sealed HDPE pipe shall have a water tight gasketed bell and spigot joining system meeting the minimum requirements of CSA B182.8. Perforated HDPE pipe shall have a soil tight joining system, and shall be enveloped in non-woven geotextile filter sock.

C.2 ALIGNMENT

The Contractor shall contact the Engineer to establish the course of the drain. Where an existing drain is to be removed and replaced by the new drain, or where the new drain is to be installed parallel to an existing drain, the Contractor shall locate the existing drain (including repairing damaged tile caused by locating) at intervals along the course of the drain. The costs of locating shall be included in the tender price.

The drain shall run in as straight a line as possible throughout its length, except that at intersections of other watercourses or at sharp corners, it shall run on a curve of at least 15 metres radius. The new tile drain shall be constructed at an offset from and parallel with any ditch or defined watercourse in order that fresh backfill in the trench will not be eroded by the flow of surface water.

The Contractor shall exercise care not to disturb any existing tile drain or drains which parallel the course of the new drain, particularly where the new and existing tile act together to provide the necessary capacity. Where any such existing drain is disturbed or damaged, the Contractor shall perform the necessary repair at his expense.

C.3 PROFILE

Benchmarks have been established along the course of the drain which are to govern the elevations of the drain. The location and elevations of the benchmarks are shown on the drawings. Tile is to be installed to the elevation and grade shown on the profiles. Accurate grade control must be maintained by the Contractor at all times.

When installing a drain towards a fixed point such as a bore pipe, the Contractor shall uncover the pipe and confirm the elevation a sufficient distance away from the pipe in order to allow for any necessary minor grade adjustments to be made.

C.4 EXCAVATION

C.4.1 Wheel machine

Unless otherwise specified, all trenching shall be carried out with a wheel machine approved by the Engineer. The wheel machine shall shape the bottom of the trench to conform to the outside diameter of the pipe. The minimum trench width shall be equal to the outside diameter of the pipe plus 100mm on each side of the pipe, unless otherwise specified. The maximum trench width shall be equal to the outside diameter of the pipe plus 300mm on each side of the pipe, unless otherwise specified.

C.4.2 Scalping

Where the depths of cuts in isolated areas along the course of the drain as shown on the profile exceed the capability of the Contractor's wheel machine, he shall lower the surface grade in order that the wheel machine may trench to the correct depth. Topsoil is to be stripped over a sufficient width that no subsoil will be deposited on top of the topsoil. Subsoil will then be removed to the required depth and piled separately. Upon completion, the topsoil will then be replaced to an even depth over the disturbed area. The cost for this work shall be included in his tender price.

C.4.3 Excavator

Where the use of an excavator is used in-lieu of a wheel machine, the topsoil shall be stripped and replaced in accordance with Item C.4.2. All tile shall be installed on 19mm clear crushed stone bedding placed to a minimum depth of 150mm which has been shaped to conform to the bottom of the pipe. The Contractor shall include the costs of this work in his tender price.

C.5 INSTALLATION

C.5.1 Concrete Tile

The tile is to be laid with close joints and in regular grade and alignment in accordance with the drawings. The tiles are to be bevelled, if necessary to ensure close joints. The inside of the tile is to be kept clear when laid. The sides of the tile are to be supported by partial filling of the trench

(blinding) prior to inspection by the Engineer. No tile shall be backfilled until inspected by the Engineer unless otherwise permitted by the Engineer. The tile shall be backfilled such that a sufficient mound of backfill is placed over the trench to ensure that no depression remains after settling occurs in the backfill.

Where a tile connects to a catch basin or similar structure, the Contractor shall include in his tender price for the supply and placement of compacted Granular 'A' bedding or 19mm clear crushed stone under areas backfilled from the underside of the pipe to undisturbed soil. Where a tile drain passes through a bore pit, the Contractor shall include in his tender price for the supply and placement of compacted Granular 'A' bedding or 19mm clear crushed stone from the underside of the pipe down to undisturbed soil with the limits of the bore pit.

The Contractor shall supply and wrap all concrete tile joints with Mirafi 160N geotextile filter material as part of this contract. The width of the filter material should be:

- 300mm wide for tile sizes 150mm diameter to 350mm diameter.
- 400mm wide for tile sizes 400mm diameter to 750mm diameter.
- 500mm wide for tile sizes larger than 750mm diameter.

The filter material shall completely cover the tile joint and shall have a minimum overlap of 300mm. The type of filter material shall be.

C.5.2 HDPE Pipe

HDPE pipe shall be installed using compacted Granular 'A' bedding or 19mm clear crushed stone bedding from 150mm below the pipe to 300mm above the pipe. All granular material shall be compacted using a suitable mechanical vibratory compactor. Granular bedding and backfill shall be placed in lifts not exceeding 300mm and compacted to at least 95% Standard Proctor Maximum Dry Density (SPMDD).

Where a pipe connects to a catch basin or similar structure, the Contractor shall include in his tender price for the supply and placement of compacted Granular 'A' bedding or 19mm clear crushed stone under areas backfilled from the underside of the pipe to undisturbed soil. Where a pipe passes through a bore pit, the Contractor shall include in his tender price for the supply and placement of compacted Granular 'A' bedding or 19mm clear crushed stone from the underside of the pipe down to undisturbed soil with the limits of the bore pit.

As determined by the Engineer, unsuitable backfill material must be hauled off-site by the Contractor and Granular "B" shall be used as replacement backfill material.

C.6 TRENCH CROSSINGS

The Contractor shall not cross the backfilled trench with any construction equipment or vehicles, except by one designated crossing location on each property. The Contractor shall ensure that the bedding and backfill material at this designated crossing location is properly placed and compacted so as to adequately support the equipment and vehicles that may cross the trench.

The Contractor may undertake any other approved work to ensure the integrity of the tile at the crossing location. The Contractor shall ensure that no equipment or vehicles travel along the length of the trench. The Contractor shall be responsible for any damage to the new tile caused by the construction of the drain.

C.7 OUTLET PROTECTION

A tile drain outlet into a ditch shall be either HDPE pipe or corrugated steel pipe and shall include a hinged grate for rodent protection. The maximum spacing between bars on the rodent grate shall be 40mm. All corrugated steel outlet pipes shall be bevelled at the end to generally conform to the slope of the ditch bank.

Quarry stone rock rip-rap protection and geotextile filter material (Mirafi 160N), shall be installed around the outlet pipe and extended downstream a minimum distance of three metres, unless otherwise specified. The protection shall extend to the top of the backfilled trench and below the pipe to 300 mm under the streambed. The protection shall also extend 600mm into undisturbed soil on either side of the backfilled trench. In some locations, rip-rap may be required on the bank opposite the outlet.

Where the outlet occurs at the upper end of an open ditch, the rip-rap protection will extend all around the end of the ditch and to a point 800mm downstream on either side. Where heavy overflow is likely to occur, sufficient additional rip-rap and filter material shall be placed as directed by the Engineer to prevent the water cutting around the protection.

C.8 CATCH BASINS AND JUNCTION BOXES

Unless otherwise noted, catch basins shall be in accordance with OPSD 705.010 and 705.030. The catch basin grate shall be a "Birdcage" type substantial steel grate, removable for cleaning and shall be inset into a recess provided around the top of the structure. The grate shall be fastened to the catch basin with bolts into the concrete. Spacing of bars on grates for use on 600mmX600mm structures shall be 65mm centre to centre. Spacing of bars on grates for use on structures larger than 600mmX600mm shall be 90mm.

All catch basins shall be backfilled with compacted Granular 'A' or 19mm clear crushed stone placed to a minimum width of 300mm on all sides. If settling occurs after construction, the Contractor shall supply and place sufficient granular material to maintain the backfill level flush with adjacent ground. The riser sections of the catch basin shall be wrapped with filter cloth.

Quarry stone rip-rap protection shall be placed around all catch basins and shall extend a minimum distance of one (1) metre away from the outer edge of each side of the catch basin, and shall be placed so that the finished surface of the rip-rap is flush with the existing ground.

If there are no existing drains to be connected to the catch basin at the top end of the drain, a plugged tile shall be placed in the upstream wall with the same elevations as the outlet tile.

Junction boxes shall have a minimum cover over the lid of 450mm.

The Contractor shall include in his tender price for the construction of a berm behind all ditch inlet structures. The berm shall be constructed of compacted clay keyed 300mm into undisturbed soil. The top of the spill way of the earth berm shall be the same elevation as the high wall of the ditch inlet catch basin. The earth berm shall be covered with 100mm depth of topsoil and seeded with an approved green seed mixture. The Contractor shall also include for regrading, shaping and seeding of road ditches for a maximum of 15 metres each way from all catch basins.

The Contractor shall clean all catch basin sumps after completion of the drain installation. Catch basin markers shall be placed beside each catch basin.

C.9 TRIBUTARY DRAINS

Any tributary tile encountered in the course of the drain is to be carefully taken up by the Contractor and placed clear of the excavated earth. If the tributary drains encountered are clean or reasonably clean, they shall be connected into the new drain in accordance with the typical tile drain connection detail. Tributary tile drain connections into the new drain shall be made using high density polyethylene agricultural drain tubing installed on and backfilled with 19mm clear crushed stone. All tile drain connections into the new drain shall be either a cored hole with an insert coupler or a manufactured tee.

Where the existing drains are full of sediment, the decision to connect the tributary drain to the new drain shall be left to the Engineer. The Contractor shall be paid for each tributary drain connection as outlined in the Form of Tender and Agreement.

The Contractor shall be responsible for all tributary tile connections for a period of one year from the date of the Completion Certificate. After construction, any missed tile connections required to be made into the new drain shall be paid at the same rate as defined in the Form of Tender and Agreement. The Contractor will have the option to make any subsequent tile connections or have the Municipality make the required connections and have the cost of which deducted from the holdback.

Where an open ditch is being replaced by a new tile drain, existing tile outlets entering the ditch from the side opposite the new drain shall be extended to the new drain.

Where the Contractor is required to connect an existing tile which is not encountered in the course of the drain, the cost of such work shall constitute an extra to the contract.

C.10 CLEARING, GRUBBING AND MULCHING

The Contractor shall clear, brush and stump trees from within the working area.

All trees or limbs 150mm or larger, that is necessary to remove, shall be cut, trimmed and neatly stacked in the working width for the use or disposal by the Landowner. Brush and limbs less than 150mm in diameter shall be mulched.

Clearing, grubbing and mulching shall be carried out as a separate operation from installing the drain, and shall not be completed simultaneously at the same location.

C.11 ROADS AND LANEWAY SUB-SURFACE CROSSINGS

All roads and laneway crossings may be made with an open cut. The Contractor may use original ground as backfill to within 600mm of finished grade only if adequate compaction and if the use of the original ground backfill has been approved beforehand by the Engineer.

C.12 FILLING IN EXISTING DITCHES

The Contractor shall backfill the ditch sufficiently for traversing by farm equipment. If sufficient material is available on-site to fill in the existing ditch, the topsoil shall be stripped and the subsoil shall be bulldozed into the ditch and the topsoil shall then be spread over the backfilled waterway. The Contractor shall ensure sufficient compaction of the backfill and if required, repair excess settlement up to the end of the warranty period.

C.13 CONSTRUCTION OF GRASSED WATERWAYS

Where the Contractor is required to construct a grassed waterway, the existing waterway shall be filled in, regraded, shaped and a seed bed prepared prior to applying the grass seed. The grass seed shall be fresh, clean and new crop seed, meeting the requirements of the MTO.

- 55% Creeping Red Fescue
- 15% Perennial Rye Grass
- 27% Kentucky Bluegrass
- 3% White Clover

Grass seed shall be applied at the rate of 100 kg/ha.

C.14 UNSTABLE SOIL

The Contractor shall immediately contact the Engineer if unstable soil is encountered. The Engineer shall, after consultation with the Contractor, determine the action necessary and a price for additions or deletions shall be agreed upon prior to further drain installation.

C.15 ROCKS

The Contractor shall immediately contact the Engineer if boulders of sufficient size and number are encountered such that the Contractor cannot continue trenching with a wheel machine. The Engineer shall determine the action necessary and a price for additions or deletions shall be agreed upon prior to further drain installation.

If only scattered large stone or boulders are removed on any project, the Contractor shall either excavate a hole to bury same adjacent to the drain, or he shall haul the stones or boulders to a location designated by the Landowner.

C.16 BROKEN OR DAMAGED TILE

The Contractor shall remove and dispose of all broken (existing or new), damaged or excess tile off site.

C.17 RECOMMENDED PRACTICE FOR CONSTRUCTION OF SUBSURFACE DRAINAGE SYSTEMS

Drainage Guide for Ontario, Ministry of Agriculture, Food and Rural Affairs, Publication 29 and its amendments, dealing with the construction of Subsurface Drainage Systems, shall be the guide to all methods and materials to be used in the construction of tile drains except where superseded by other Specifications of the Contract.

DIVISION E

SPECIFICATIONS FOR DRAINAGE CROSSINGS BY THE BORING METHOD

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DIVISION E

SPECIFICATIONS FOR DRAINAGE CROSSINGS BY THE BORING METHOD

E.1 GENERAL REQUIREMENTS

When a drainage crossing of a Roadway, Railway, etc. is to be carried out by the Boring Method, the following Specifications for this work shall apply. The Authority having jurisdiction over the lands involved with the crossing will supply no labour, equipment or materials for the construction of the crossing unless otherwise specified.

The Contractor shall be fully responsible for availing himself of, and satisfying any further Specifications that may apply to borings affecting the Authority having jurisdiction over the lands involved with the crossing.

E.2 NOTIFICATION

The Contractor shall give the Authority responsible for the lands being crossed at least five (5) days notice before he commences any work on the crossing.

E.3 PIPE

The pipe or casing used in the crossing shall be smooth wall welded steel pipe with a minimum wall thickness as specified on the Plan and Profile. All pipe shall be new and manufactured from weldable steel having a minimum yield strength of 241 MPa. Pipe ends shall be bevel edged in the intrude to an angle of thirty (30) degrees for butt weld splicing. The name or trademark of the manufacturer and the heat number shall be clearly marked in the inside of the section of the pipe.

The pipe shall be of sufficient length so that during placement, no part of any excavation shall be closer than three (3) metres to the edge of a pavement and the slope of the excavation from the edge of shoulder, or other point as specified to the invert of the pipe shall be no less than one (1) metre vertical to one (1) metre horizontal (1:1) [See item E.5 "Auger Pit"].

E.4 INSTALLATION

The pipe or casing shall be placed by means of continuous flight augering inside the casing and simultaneous jacking to advance the casing immediately behind the tip of the auger. Complete augering of a tunnel slightly larger than the pipe and placing the entire length by pulling or jacking after completion of the tunnel will not be acceptable unless the method to be adopted is approved in advance by both the Engineer and the Authority responsible for the lands being crossed.

E.5 AUGER PIT

The pit excavated to accommodate the boring machine shall be so constructed so that the top edge of the pit shall not be closer than three (3) metres to the edge of the pavement. The slope of the pit from the top edge at the shoulder to the bottom of the pit shall not be steeper than one (1) metre vertical to one (1) metre horizontal (1:1). Shoring, sheeting, etc. shall be in accordance with the applicable and most recent Provincial Statutes.

The pit shall be left open for an absolute minimum of time, and if at all possible work shall be so scheduled so that excavation, placement of pipe and backfilling take place in one (1) working day. If this is not possible, every effort should be made to schedule the work so that the pit is not left open for more than one (1) day before and one (1) day after the boring operation.

E.6 CONSTRUCTION

During excavation, every effort should be made to place the top 300 mm of spoil (topsoil) in a separate pile for replacement on top on completion of the backfill operation. If this is not possible or practical, the Contractor shall import and place a minimum of 150 mm of good quality topsoil over the excavated and backfilled area. The finished work shall be left in a clean and orderly condition flush or slightly higher than the adjacent ground so that after settlement, it will conform to the surrounding ground. Excess earth (if any) shall be disposed of as directed by the Engineer and no additional payment will be allotted for such work.

The Contractor shall at his expense supply, erect and maintain suitable and adequate barricades, flashing lights, warning signs and/or flagmen to the satisfaction of the Engineer to adequately warn and protect the motoring public.

Any areas disturbed within the Right-of-Way of a County Road or King's Highway during construction, shall be covered with a minimum of 75 mm of topsoil, fertilized and seeded with an approved grass seed mixture.

E.7 ACCEPTANCE

All work undertaken by the Contractor shall be to the satisfaction of the Engineer.

DIVISION H

SPECIAL PROVISIONS

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DIVISION H

SPECIAL PROVISIONS

Cressman and Don Myers Municipal Drains 2017
Township of Wilmot

Reference No. 1563

Special provisions means special directions containing requirements peculiar to the work not adequately provided for by the standard or supplemental Specifications. Special provisions shall take precedence and govern any standard or supplemental Specifications.

H.1 GENERAL

The Contractor shall notify the Landowners, the Township Drainage Superintendent (John Kuntze, P.Eng.) and the Engineer forty-eight (48) hours prior to construction.

The Contractor shall verify the location of the new drainage system with the Engineer and the Landowners prior to construction.

The Contractor shall check and verify all dimensions and elevations and report any discrepancies to the Engineer prior to proceeding with the work.

The Contractor shall be responsible to arrange all traffic control signals, signs and devices that are required for safe and proper traffic management during the installation of the drainage system. The Contractor shall contact the Region of Waterloo and the Township of Wilmot for specified local procedures, guidelines and timelines. Traffic control shall meet the standards of Book 7 of the Ontario Traffic Manual.

The Contractor shall be responsible for notifying the public of any road closures or detours unless otherwise stated by the Township of Wilmot or Region of Waterloo.

The Contractor shall be responsible for all trench settlement.

H.2 UTILITIES

All utilities shall be located and uncovered in the affected areas by the Contractor prior to construction.

The locations and elevations of all utilities shown on the drawings are approximate locations. Actual locations and elevations of all utilities must be verified by the Contractor prior to construction.

The Contractor shall arrange to have a representative of the utility owner on site during construction if it is a requirement by the utility owner.

H.3 WORKING AREA AND ACCESS

Each landowner shall designate access to and from the working area for both the Cressman and Don Myers Municipal Drains.

Cressman Drain

Open Work – (Sta. 0+936 to Sta. 1+450 and Sta. 1+566 to Sta. 1+886)

The working area for construction purposes shall be a width of eighteen (18) metres on the side of the drain where the excavated material is to be placed and levelled.

Closed Work – (Sta. 1+450 to Sta. 1+566)

The working area for construction purposes shall be a width of twenty (20) metres centered on the proposed drain.

Don Myers Drain – Sta. (1+886 to Sta. 2+443)

The working area for construction purposes shall be a width of twenty (20) metres centered on the proposed drain and a width of thirty (30) metres along the existing ditch. The working area for maintenance purposes shall be a width of ten (10) metres centered on the proposed drain.

H.4 CLEARING AND GRUBBING

The Contractor shall clear, brush and stump all trees and brush within the unworkable area along the course of the Cressman Drain.

All trees, limbs and brush less than 150mm in diameter shall be mulched or disposed of offsite. Trees greater than 150mm in diameter shall be cut and placed in piles designated by the Landowners.

The Contractor shall remove the existing stump and rootwad near Sta. 1+510 on the A. Sweeney property (Roll No. 1+067) and dispose of offsite. The Contractor shall remove and dispose of the existing willow trees adjacent the proposed Cressman Drain on the K. Cressman property (Roll No. 1-065-01).

H.5 TOPSOIL AND SEEDING

Open Ditch Work

The Contractor shall strip the existing topsoil for the entire width of the proposed open ditch and the entire spreading width of the where the excavated material will be spread. The topsoil shall later be spread over the excavated material.

The Contractor shall clean out the existing open ditch of any topsoil on the Century Oak Holdings Inc. property (Roll No. 1-111) from Sta. 2+083 to Sta. 2+443. This topsoil shall be placed over the backfilled ditch.

The sideslopes of the Cressman Drain and the partially filled roadside ditches shall be topped with a minimum of 100mm of topsoil and hydroseeded with an approved grass seed-mulch mixture.

Closed Drain Work

Where the tile drain is to be installed by means of an approved wheel trencher, the Contractor shall strip the topsoil for a width of 4 metres centred on the proposed drain. Where the drain is to be installed by means of an approved hydraulic excavator, the Contractor shall strip the topsoil for a width equal to the trench width. All stockpiled topsoil shall later spread it over the backfilled trench.

H.6 OPEN DITCH WORK

Cressman Drain

The Contractor shall construct a silt trap at the lower end of the drain and maintain it for the duration of construction.

The Contractor shall construct the open ditch in accordance with the plans, profiles and cross sections included in the attached drawing set.

The existing ditch on the L. Cressman property (Roll No. 1-065-02) shall be filled with excess material from the proposed Cressman Drain for the segments where the proposed centreline is offset from the existing ditch centreline.

Don Myers Drain

The Contractor shall import excess fill material from the Cressman open ditch excavation and the Don Myers Drain tile installation. The Contractor shall then entirely fill the existing open ditch on the Century Oak Holdings Inc. property, and partially fill the ditch parallel Regional Road 3 (Walker Road).

The partial ditch enclosure on Regional Road 3 shall be hydroseeded with an approved grass seed-mulch mixture.

Prior to any ditch bottom cleanouts or new ditch construction, the Contractor shall strip the topsoil from the side slopes of the ditch and stockpile onsite. The Contractor shall later spread the topsoil over the side slopes and disturbed areas of the ditch.

H.7 RIP-RAP

All stone rip-rap material shall be quarry stone 150 mm to 300 mm dia. and placed to a depth of 450 mm. All rip-rap material shall be placed on geo-textile filter material (Mirafi 180N).

H.8 CULVERT AND CORRUGATED STEEL PIPE INSTALLATIONS

Construction of culverts and corrugated steel pipes shall occur during low flow or no flow conditions. If construction is not possible during low flow conditions, the Contractor shall implement a flow diversion scheme.

Culverts and CSP shall be installed in accordance with the details included in the drawing set.

The Contractor shall supply all necessary fill to construct the crossing approaches where necessary. All fill shall be approved by the Engineer.

H.9 PIPE, INSTALLATION, BEDDING & BACKFILL

H.9.1 Concrete Field Tile

An approved wheel trencher shall be used to install the concrete field tile.

All concrete tile shall be Heavy-Duty Extra Quality Concrete Drain Tile 2000D.

All concrete field tile shall be backfilled using native material. The backfill shall not be compacted but a sufficient mound shall be left over the trench by the Contractor to allow for settlement flush with adjacent lands. The Contractor shall be responsible for all trench settlement.

The Contractor shall supply and wrap all concrete tile joints with geotextile filter material as part of this contract. The width of the filter material should be:

- 400mm wide for tile sizes 400mm diameter to 750mm diameter.
- 500mm wide for tile sizes larger than 750mm diameter.

The filter material shall completely cover the tile joint and shall have a minimum overlap of 300mm. The type of filter material shall be Mirafi 140NC for clay or loam soil conditions and Mirafi 160N for sandy or silty soil conditions.

H.9.2 High Density Polyethylene Pipe (H.D.P.E.)

An approved hydraulic excavator shall be used for the installation of all H.D.P.E. pipe.

All H.D.P.E. pipe shall be BOSS 2000 (or equivalent) CSA B182.8-02/320 KPa.

All H.D.P.E. pipe shall have split couplers joining systems.

All H.D.P.E. pipe shall be installed using 19mm (3/4") crushed stone bedding from 150mm below the pipe to 150mm above the pipe. Suitable native material shall be used as backfill to the underside of the topsoil.

As determined by the Engineer, unsuitable backfill material must be hauled off-site by the Contractor and Granular "B" shall be used as replacement backfill material.

H.10 CATCH BASINS & MANHOLES

All catch basins shall be precast concrete catch basins (Coldstream Concrete Ltd. or approved equal).

All catch basins shall have 300mm sumps.

The catch basin grate elevations shall be set to the satisfaction of the Engineer.

All catch basin grates shall be fastened to the new catch basins.

All catch basins shall have bird cage grates.

Knockouts shall be provided in all catch basins.

All catch basins and manholes structures shall be installed on 150mm crushed stone bedding.

Structures within the road allowances shall have 300mm minimum M.T.O. Granular 'B' backfill around all sides up to the underside of the topsoil layer. Structures on private property shall be backfilled using approved native material up to the underside of the topsoil layer.

All backfill material shall be placed and thoroughly compacted evenly around each structure in lifts not exceeding 300mm so as to minimize settlement around the structures.

The Contractor shall place quarry stone rip-rap material around all sides of the catch basin for a width of 1m and shall be placed on an approved geo-textile filter material.

All manholes to come with hollow aluminum steps as per O.P.S.D. 405.010.

All manholes to have closed cast iron grate covers (as per O.P.S.D. 401.010-A).

All manholes to be benched.

Lifts (modulocs) shall be placed by the Contractor on all catch basins or manholes if necessary to achieve the desired elevation when field setting the structures.

All holes for manhole and catch basin pipe connections to be cored by the manufacturer.

The Contractor shall be responsible to repair or reapply grout for all grouted connections into any catch basin or manhole for a period of one year after the completion certificate has been issued.

H.11 EXISTING DRAINS/TILE CONNECTIONS

The Contractor shall make all tributary tile drain connections in accordance with the Typical Tile Connection Detail included in the drawing set.

The Contractor shall be responsible for all tile connections for a period of one year after the issuance of the completion certificate. The tile connections required to be made within this warranty period shall be made at the same rate as defined on the Form of Tender and Agreement. After construction, the Contractor will be given the option to make any subsequent tile connections or have the Municipality make said connections and have the costs of which deducted from the holdback.

Any existing private tile being connected through the existing open ditch from the north shall be installed with a minimum of 300mm of 19mm crushed stone bedding below the pipe. The pipe shall be backfilled to springline with crushed stone.

H.12 ROAD WORKS

H.12.1 Roadside Ditches

Where the roadside ditches are to be partially filled and reshaped, the Contractor construct the proposed ditches in accordance with the plans. The Contractor shall ensure that the invert of the roadside ditches is a minimum of 300mm below the adjacent private properties.

The Contractor shall ensure continuity of the existing surrounding roadside ditches with the proposed roadside ditches.

H.12.2 Surface Pipe Extension and Transition Swale (Sta. 1+894)

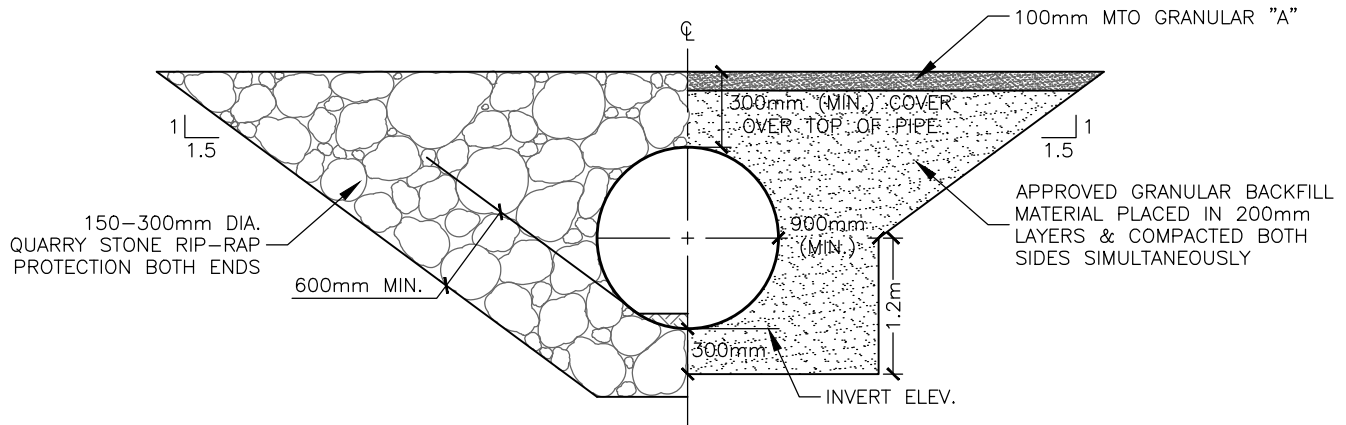
The Contractor shall supply all necessary materials and labour to extend the existing 1400mm X 1000mm C.S.P.A. culvert downstream approximately two metres.

The Contractor shall construct a rip-rap lined transition swale from the end of the extended surface pipe to the Cressman Drain. The Contractor shall provide additional rip-rap material on the north bank opposite the outlet pipe of the Don Myers Drain.

The Contractor shall grade and realign the existing roadside ditches to outlet into the rip-rap lined transition swale from the end of the extended surface culvert to the Cressman Drain at Sta. 1+894.

CRESSMAN
MUNICIPAL DRAIN 2017
LANEWAY CULVERT DETAIL

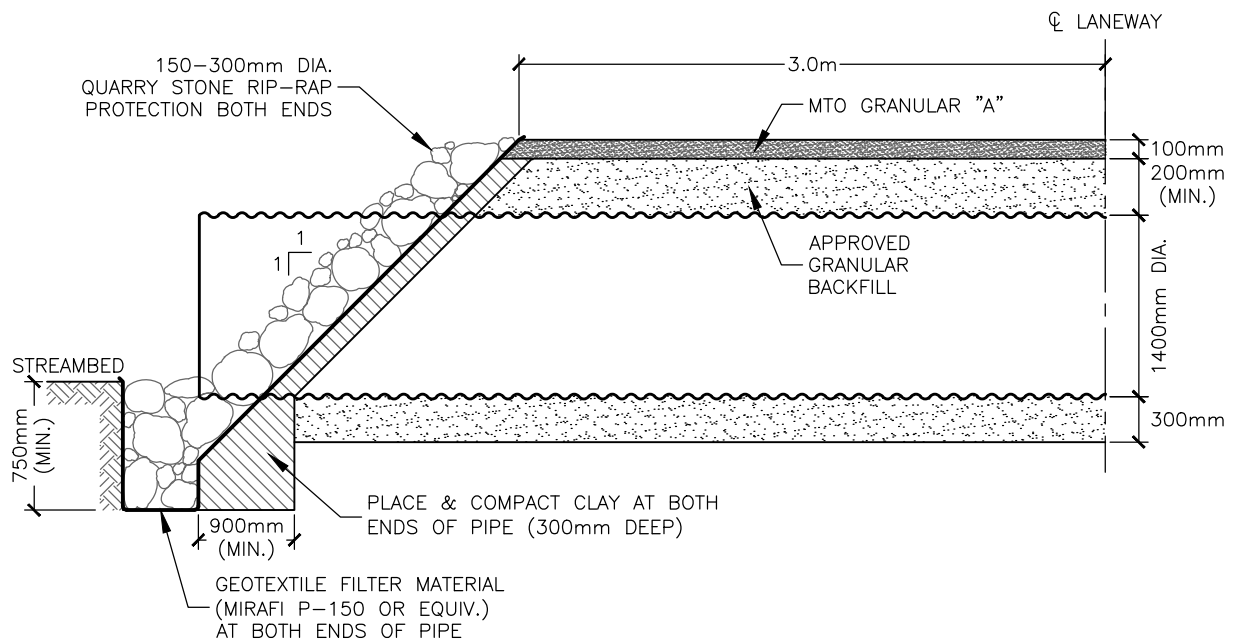
<u>STATION</u>	<u>DIAMETER</u>	<u>LENGTH</u>	<u>INVERT</u>	<u>STREAMBED</u>	<u>CORRUGATIONS</u>	<u>THICKNESS</u>
1+000	1400mm	10m	U.S.E. = 322.10 D.S.E. = 322.03	U.S.E. = 322.30 D.S.E. = 322.23	125mm x 25mm	2.00mm



HALF ELEVATION

HALF SECTION

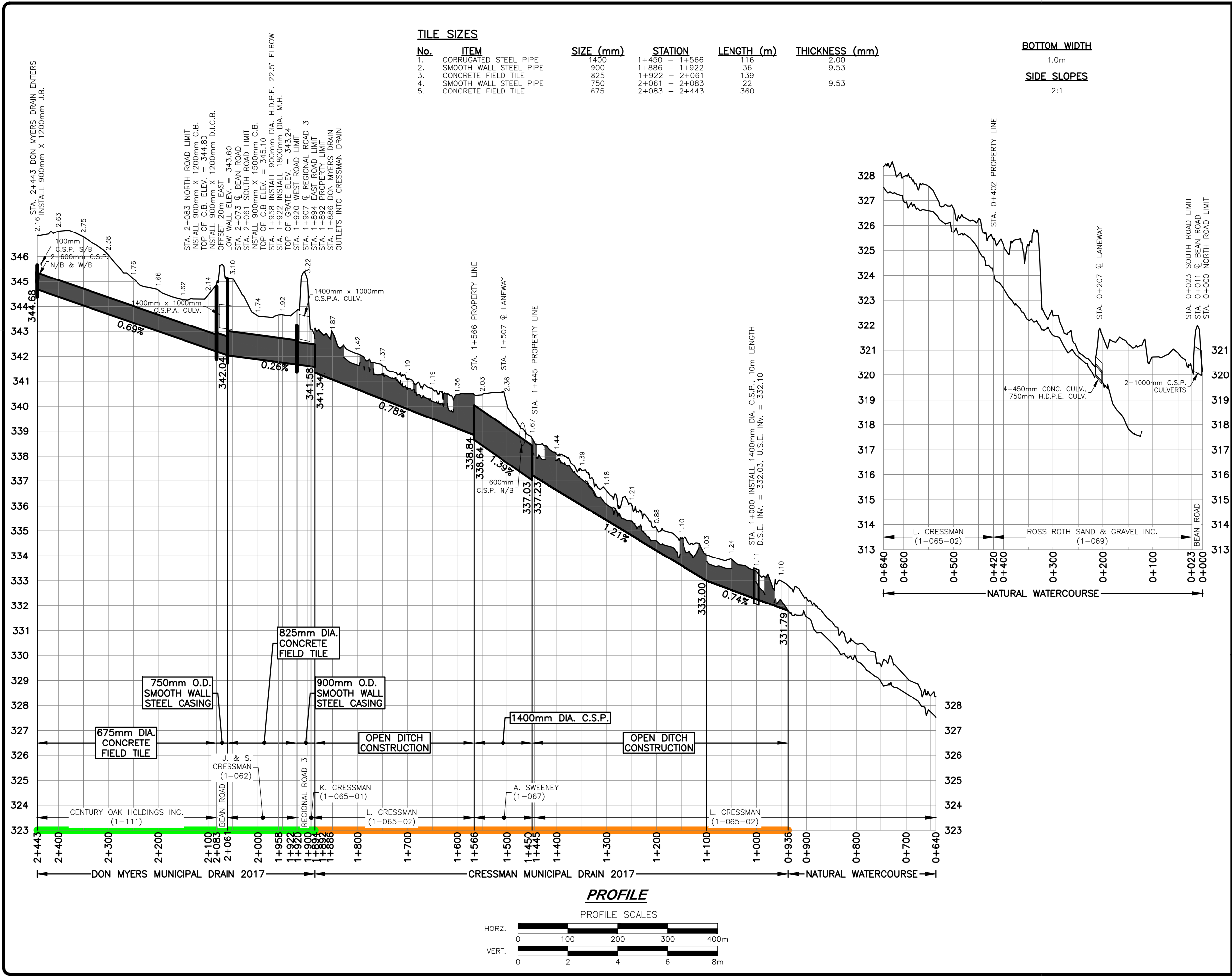
N.T.S.



HALF LONGITUDINAL SECTION

N.T.S.

REFERENCE No. 1563



NOTES:

LEGEND:

5.	REPORT SUBMISSION	2017-03-22	DEL
4.	ISSUED FOR REGIONAL REVIEW	2017-02-28	DEL
3.	INFORMATION MEETING NO. 2	2017-02-02	DEL
2.	INFORMATION MEETING	2016-11-10	DEL
1.	ON-SITE MEETING	2016-03-22	DEL

No. ISSUES AND REVISIONS DATE BY

REGISTERED PROFESSIONAL ENGINEER
W. J. DIETRICH
PROVINCE OF ONTARIO

REGISTERED PROFESSIONAL ENGINEER
S. G. R. BRIDGMAN
PROVINCE OF ONTARIO

TOWNSHIP OF WILMOT

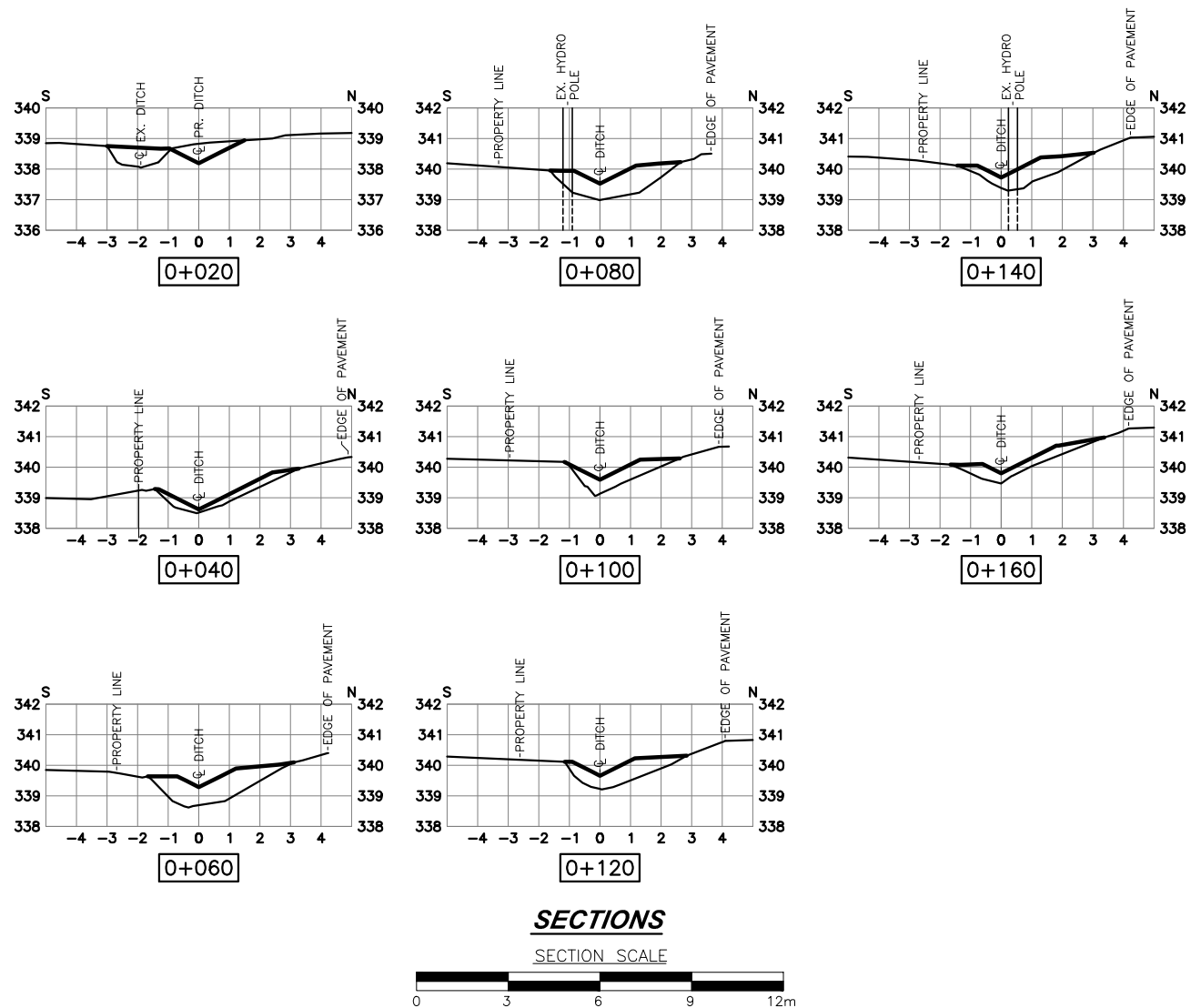
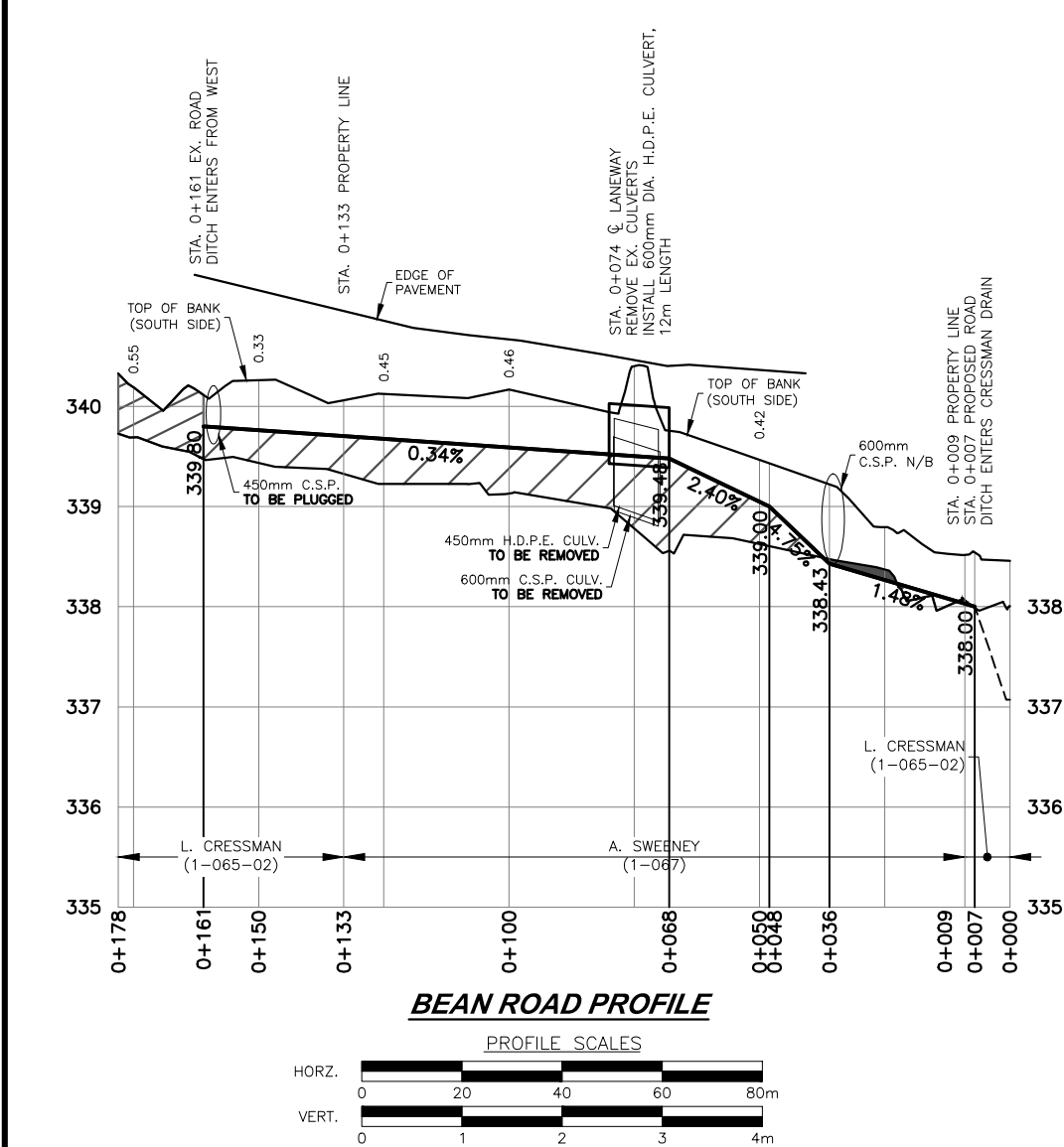
PROJECT: CRESSMAN & DON MYERS
MUNICIPAL DRAINS 2017

DRAWING: PROFILE

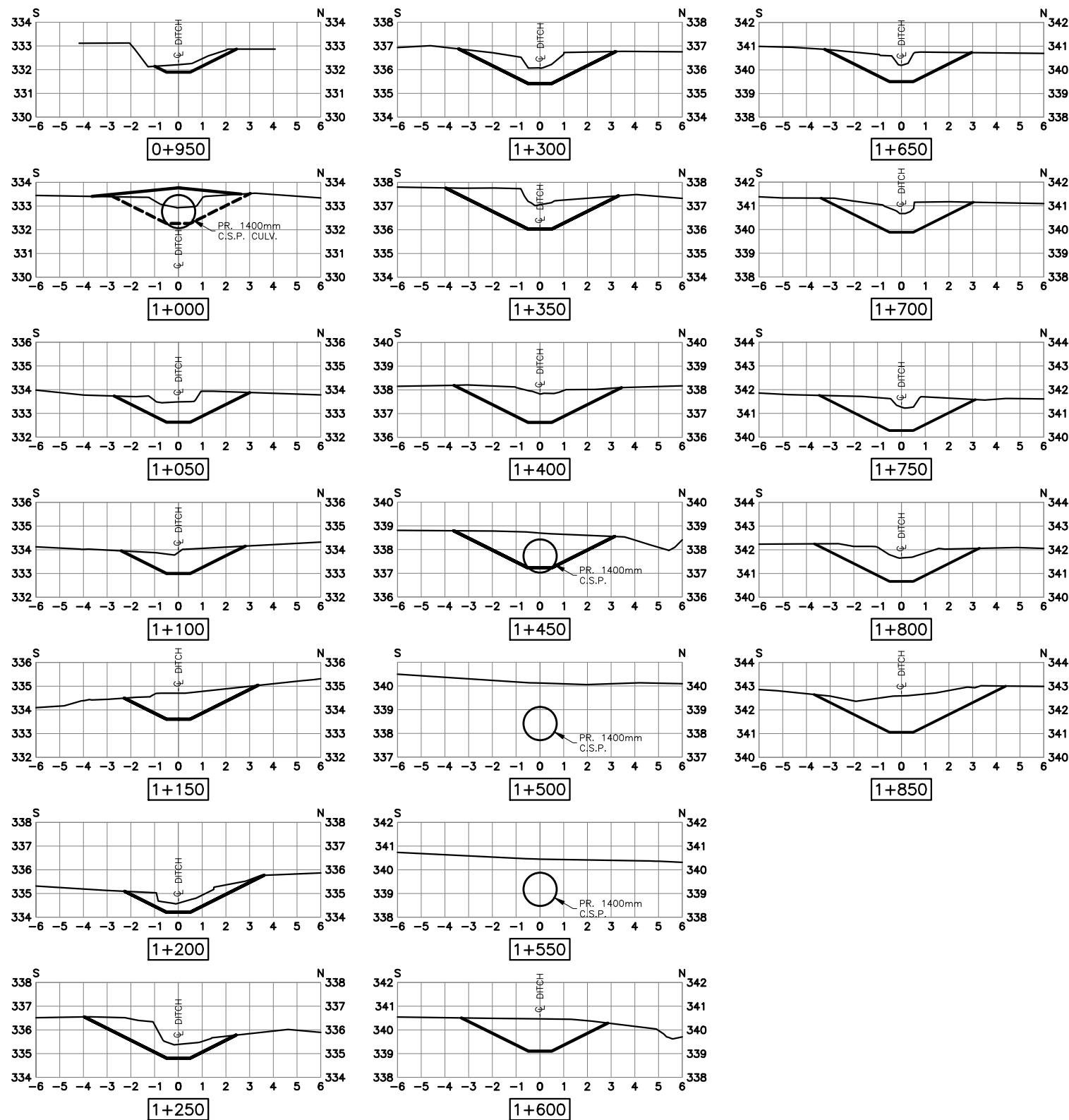
DIETRICH ENGINEERING LIMITED
CONSULTING ENGINEERS

515 Dotzert Crt., Unit 8, Waterloo, ON, N2L 6A7

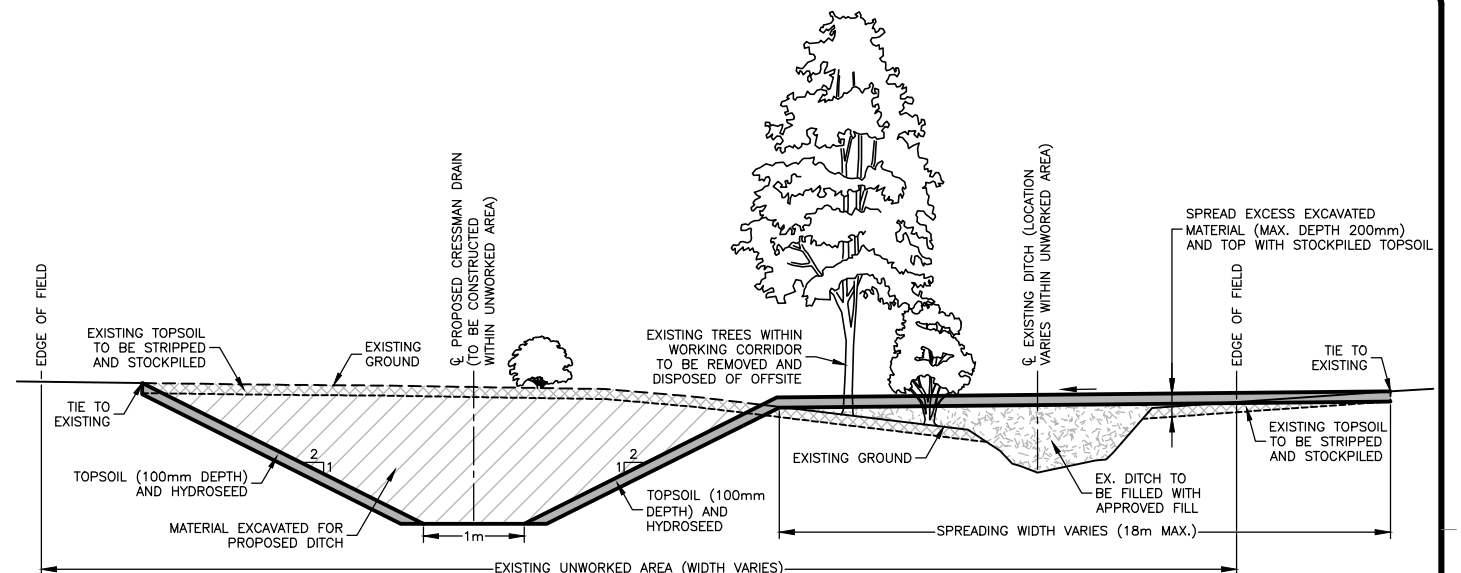
PROJ. MGR:	S.B.	DESIGNED BY:	S.B.	DRAWN BY:	R.U.	CHECKED BY:	S.B.
DRAWING SCALE:	AS NOTED	DATE:	MAR. 22, 2017	PROJECT No.	1563	DRAWING No.	2 of 5



PROJ. MGR: S.B.	DESIGNED BY: S.B.	DRAWN BY: R.U.	CHECKED BY: S.B.
DRAWING SCALE: AS NOTED	DATE: MAR. 22, 2017	PROJECT No. 1563	DRAWING No. 3 of 5

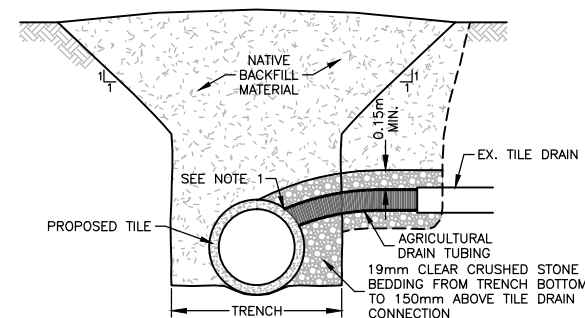


CRESSMAN DRAIN SECTIONS



TYPICAL CRESSMAN DRAIN OPEN DITCH CONSTRUCTION DETAIL

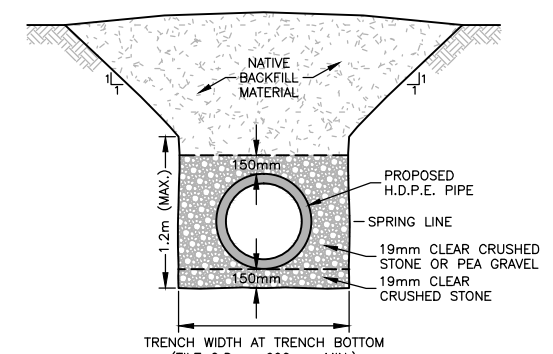
N.T.S.



NOTE:
1. ALL TILE CONNECTIONS TO BE EITHER A CORED HOLE WITH AN INSERT COUPLER, OR A MANUFACTURED TEE

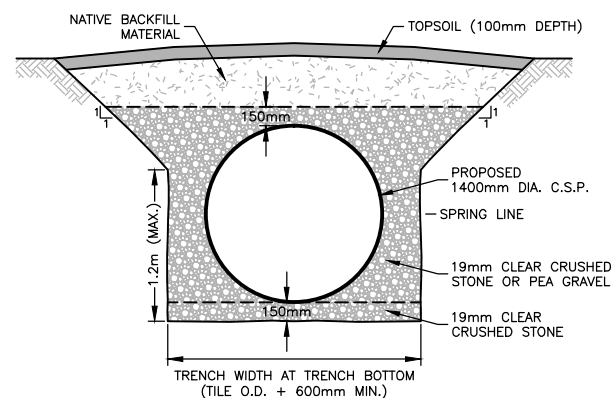
TYPICAL TILE CONNECTION DETAIL

N.T.S.



TYPICAL H.D.P.E. PIPE INSTALLATION ON STONE BEDDING DETAIL

N.T.S.



TYPICAL C.S.P. INSTALLATION DETAIL
CRESSMAN DRAIN (STA. 1+450 TO STA. 1+566)

N.T.S.

No.	ISSUES AND REVISIONS	DATE	BY
4.	REPORT SUBMISSION	2017-03-22	DEL
3.	INFORMATION MEETING NO. 2	2017-02-02	DEL
2.	INFORMATION MEETING	2016-11-10	DEL
1.	ON-SITE MEETING	2016-03-22	DEL
PROJECT: CRESSMAN & DON MEYERS MUNICIPAL DRAINS 2017			
DRAWING: SECTIONS & DETAILS			
515 Dotzert Crt., Unit 8, Waterloo, ON, N2L 6A7			
PROJ. MGR:	S.B.	DESIGNED BY:	S.B.
DRAWING SCALE:	AS NOTED	DRAWN BY:	R.U.
DATE:	MAR. 22, 2017	CHECKED BY:	S.B.
PROJECT No.	1563	DRAWING No.	5 of 5



Township of Wilmot **REPORT**

REPORT NO.	FIN 2017-16
TO:	Council
PREPARED BY:	Patrick Kelly CPA, CMA Director of Finance
DATE:	March 27, 2017
SUBJECT:	Honorariums and Expenditures of Council Members and Council Appointees for the Year Ended December 31, 2016

Recommendation:

That Report FIN 2017-16, prepared by the Director of Finance, outlining honorariums and expenditures of Council and Council appointees for the 2016 fiscal year, be adopted.

Background:

In accordance with Section 284 of the Municipal Act, the Treasurer is required to submit to Council, by March 31st of the following year, an itemized statement of remuneration and expenses paid to each member of Council, and to each person appointed to local boards, for the preceding year.

This statement shall identify the by-law under which the remuneration or expenses were authorized to be paid. [2001 c. 25 s 284(2)].

Discussion:

The attached statement summarizes remuneration and expenses for Members of Council and Council Appointees for the year ended December 31, 2016. By-law number 2000-42 authorized remuneration paid to Members of Council of the Township of Wilmot. The statement was circulated to Members of Council for their review and comment.

Strategic Plan Conformity:

This report is aligned with the goal of being an engaged community through the communication of municipal matters. The provision of this information to Council and the community is done in accordance with the Municipal Act, as well as the Township's Accountability and Transparency Policy.

Financial Considerations:

Honorariums and expenditures of Council Members and Council Appointees were included within the approved 2016 budget. These expenses shown within the attached statement were included under the ad hoc Budget Advisory Committee Report FIN 2017-01, which summarized 2016 Municipal Operations.

Conclusion:

Staff will continue to report to Council the Honorariums and Expenditures of Council Members and Council Appointees in accordance with Section 284 of the Municipal Act. As well, quarterly updates will continue to be posted on the Township website.

Patrick Kelly CPA, CMA

Director of Finance

Grant Whittington

Reviewed by Chief Administrative Officer

The Corporation of the Township of Wilmot
Treasurer's Statement - Remuneration and Expenses
Paid to Members of Council and Committees

For the Year Ended December 31, 2016

Members of Council	Salary	Benefits (CPP/EI/EHT)	Conference and Training	Mileage Parking	Meals, Mobile Phones, Other	Total
Mayor Les Armstrong	\$ 25,584	\$ 1,116		\$ 1,298	\$ 230	\$ 28,228
Councillor Al Junker	12,793	471			708	13,972
Councillor Peter Roe	12,793	222		598	670	14,283
Councillor Barry Fisher	12,793	471			685	13,949
Councillor Jeff Gerber	12,793	471			679	13,943
Councillor Mark Murray	12,793	471			711	13,975
Totals	\$ 89,549	\$ 3,222	\$ -	\$ 1,896	\$ 3,683	\$ 98,350

Committee of Adjustment	Honorarium	Mileage	Total
Karin Demerling	\$ 300	\$ 33	\$ 333
Louise Lalonde	250	34	284
Steve Miller	300	30	330
James Phillips	300		300
Wayne Roth	300		300
Totals	\$ 1,450	\$ 97	\$ 1,547



Township of Wilmot **REPORT**

REPORT NO.	FIN 2017-17
TO:	Council
PREPARED BY:	Patrick Kelly CPA, CMA Director of Finance
DATE:	March 27, 2017
SUBJECT:	Treasurer's Statement – Development Charges Reserve Funds

Recommendation:

That the Development Charges Statement for the year ended December 31, 2016, prepared by the Director of Finance, be received for information purposes.

Background:

In accordance with By-law 2014-34, the Treasurer is required to furnish Council with an annual statement, in respect to the Development Charge Reserve Funds. Section 43 (3) of the Development Charges Act, 1997, requires the Treasurer to give a copy of this statement to the Ministry of Municipal Affairs and Housing (MMAH) within 60 days of reporting to Council.

Discussion:

Development Charges were collected during the year from developers at the issuance of building permits. Expenses were disbursed to growth related capital projects based on the Development Charges Study. Attached is a summary of the development charge collections and disbursement for the year ended December 31, 2016.

Strategic Plan Conformity:

This report is aligned with the goal of being an engaged community through the communication of municipal matters. Staff provide Council and the community with an update on the status of Development Charge Reserve Funds in accordance with the Development Charges Act.

Financial Considerations:

Funding towards growth based capital projects from Development Charges was included within the approved 2016 capital budget. Upon completion of capital projects, any unused funds from these projects were returned to their respective Development Charges Reserve Funds.

Conclusion:

Staff will forward a copy of the attached Development Charges Statement to the Ministry of Municipal Affairs and Housing (MMAH) following approval from Council.

Patrick Kelly CPA,CMA

Director of Finance

Grant Whittington

Reviewed by Chief Administrative Officer



Township of Wilmot

REPORT

REPORT NO.	FIN 2017-17
TO:	Council
PREPARED BY:	Patrick Kelly CPA, CMA Director of Finance
DATE:	March 27, 2017
SUBJECT:	Treasurer's Statement – Development Charges Reserve Funds

Recommendation:

That the Development Charges Statement for the year ended December 31, 2016, prepared by the Director of Finance, be received for information purposes.

Background:

In accordance with By-law 2014-34, the Treasurer is required to furnish Council with an annual statement, in respect to the Development Charge Reserve Funds. Section 43 (3) of the Development Charges Act, 1997, requires the Treasurer to give a copy of this statement to the Ministry of Municipal Affairs and Housing (MMAH) within 60 days of reporting to Council.

Discussion:

Development Charges were collected during the year from developers at the issuance of building permits. Expenses were disbursed to growth related capital projects based on the Development Charges Study. Attached is a summary of the development charge collections and disbursement for the year ended December 31, 2016.

Strategic Plan Conformity:

This report is aligned with the goal of being an engaged community through the communication of municipal matters. Staff provide Council and the community with an update on the status of Development Charge Reserve Funds in accordance with the Development Charges Act.

Financial Considerations:

Funding towards growth based capital projects from Development Charges was included within the approved 2016 capital budget. Upon completion of capital projects, any unused funds from these projects were returned to their respective Development Charges Reserve Funds.

Conclusion:

Staff will forward a copy of the attached Development Charges Statement to the Ministry of Municipal Affairs and Housing (MMAH) following approval from Council.

Patrick Kelly CPA,CMA

Director of Finance

Grant Whittington

Reviewed by Chief Administrative Officer

THE CORPORATION OF THE TOWNSHIP OF WILMOT

**DEVELOPMENT CHARGES STATEMENT
JANUARY 1, 2016 TO DECEMBER 31, 2016**

		REVENUE		EXPENDITURES	
Description	Balance January 1 2016	Contributions Received Development Charges	Interest	Transfer to (Return from) Capital Fund Schedule (A)	Balance December 31 2016
Infrastructure					
Sanitary Sewers	(\$389,786)	\$132,067	(\$1,543)		(\$259,262)
Water	(141,371)	22,142	(586)		(\$119,815)
Roads	461,320	159,892	4,459		\$625,671
Development Charges Studies	131,626	7,056	1,197	(12,690)	\$152,569
Parks and Recreation	324,302	145,325	2,978	191,335	\$281,270
Fire Services	497,968	11,427	4,482	45,893	\$467,984
Total	\$884,059	\$477,909	\$10,987	\$224,538	\$1,148,417

Schedule A Transfer to /(Return from) Capital Fund

Development Charges Studies

Wilmot Woodlot Management Plan

(\$12,690)

Parks and Recreation

Wilmot Recreation Complex / Schmidt Woods Trail Development

\$ 200,000

Wilmot Recreation Complex Back-up Power Supply

(8,665)

\$ 191,335

Fire Services

Station 1 Infrastructure Improvements

\$ 53,458

Station 1 Rear Apron Pavement

(20,331)

Personal Protective Equipment (New Recruits)

12,767

\$ 45,893

Total transfer to capital projects

\$ 224,538



Township of Wilmot **REPORT**

REPORT NO.	FIN 2017-18
TO:	Council
PREPARED BY:	Patrick Kelly CPA, CMA Director of Finance
DATE:	March 27, 2017
SUBJECT:	Treasurer's Statement – Cash-in-Lieu of Parkland Reserve Fund

Recommendation:

That the Cash-in-Lieu of Parkland Statement for the year ended December 31, 2016, be received for information purposes, to comply with changes to the *Planning Act*, resulting from the proclamation of the *Smart Growth for Our Communities Act* (Bill 73).

Background:

Under section 42 of the Planning Act, a municipality may require, as a condition of development, that land be conveyed to the municipality for park or other public recreational purposes. Alternatively the council may require a payment in lieu, to the value of the land otherwise required to be conveyed.

The Township has been collecting cash-in-lieu of parkland funds for many years and has been maintaining a dedicated reserve fund to record and track the use of those funds.

Discussion:

Staff continually monitor the Ministry of Municipal Affairs and Housing (MMAH) and Public Sector Accounting Board (PSAB), to ensure that the Township is aware of changes affecting financial reporting requirements. On December 3, 2015, Bill 73, the *Smart Growth for Our Communities Act, 2015* was passed and received Royal Assent. The changes to the *Planning Act* contained within the bill were proclaimed effective on July 1, 2016.

As a result, reporting has been prepared for Members of Council, specifically on the status of the Township's Cash-in-Lieu of Parkland Reserve Fund, as of December 31, 2016.

This statement, similar to the existing reporting requirements under the Development Charges Act (DCA), will occur in the first quarter of each fiscal year, with copies posted to the Township website, and submitted to the Ministry.

Strategic Plan Conformity:

This report is aligned with the goal of being an engaged community through the communication of municipal matters. Staff will provide Council and the community with an update on the status of Cash-in-lieu of Parkland Reserve Funds in accordance with the *Planning Act*.

Financial Considerations:

As noted within Section 42 of the Planning Act, funds collected as “cash-in-lieu” are limited in their usage to the acquisition of land to be used for park or other recreational purposes, including the erection, improvement or repair of buildings and the acquisition of machinery. Staff recognize the Park Levy Reserve Fund as one of the sources for capital funding as part of the Asset Management Planning and 10-Year Capital Forecasts.

Conclusion:

Staff will forward a copy of the attached Cash-in-lieu of Parkland Treasurer’s Statement to the Ministry of Municipal Affairs and Housing (MMAH) following approval from Council.

Patrick Kelly CPA, CMA

Director of Finance

Grant Whittington

Reviewed by Chief Administrative Officer

THE CORPORATION OF THE TOWNSHIP OF WILMOT

**CASH-IN-LIEU OF PARKLAND RESERVE FUND
TREASURER'S STATEMENT
FOR THE YEAR ENDED DECEMBER 31, 2016**

Opening Balance - January 1, 2016		\$1,319,072
Cash-in-Lieu of Parkland Collections in 2016 (Schedule A)	-	
2016 Interest Earnings	\$11,859	11,859
Total Funds Available		1,330,931
Less: Funds allocated to Capital in 2016 (Schedule B)		-
Closing Balance - December 31, 2016		\$1,330,931

Schedule A Cash-in-Lieu of Parkland Collections

Total Cash-in-Lieu of Parkland Collections

-

Schedule B Transfer to /(Return from) Capital Fund

Total (Net) Transfer to Capital Projects

-



Township of Wilmot **REPORT**

REPORT NO.	FIN 2017-20
TO:	Council
PREPARED BY:	Patrick Kelly, Director of Finance Michael Raine, Fire Chief Gary Charbonneau, Director of Public Works
DATE:	March 27, 2017
SUBJECT:	Voice Radio Upgrade Project

Recommendation:

That Council authorize the Region of Waterloo to place an order on behalf of the Township of Wilmot for the supply, delivery and installation of the P25 Voice Radio System for the Wilmot Fire Service and Public Works Departments; and further,

That all necessary radios and equipment be supplied by Motorola Solutions Canada Inc., for the estimated cost of \$300,000, plus applicable taxes, as outlined in Region of Waterloo Report COR-TRY-17-21.

Background:

Over the past number of years, a joint initiative was undertaken by the Waterloo Regional Police Service (WRPS), all municipal Fire Departments, all Regional Departments (principally Grand River Transit and Roads Operations) and various area municipality operations departments (principally Public Works) to upgrade the existing analog radio system to a modernized P25 digital radio system.

This new Regional Voice Radio System will provide reliable public-safety grade two-way voice radio communications for each of the stakeholders on this Regional project. It serves as the primary link between 911 dispatch, Police and Fire personnel for all day-to-day communications and provides critical interoperability between all users in the event of an emergency.

Discussion:

Early in the discussions regarding the Radio System Upgrade project, it was determined that the Region of Waterloo would act as the lead agency for the procurement of the system. Proposals were called by the Region of Waterloo for Supply, Installation and Fifteen (15) years of Maintenance of a P25 Voice Radio System in July 2016. There had been a pre-qualification

completed for this project, and only bids received from the two (2) pre-qualified proponents were accepted.

Proposals were submitted by Harris Canada Systems Inc. (Mississauga, ON) and Motorola Solutions Canada Inc. (Markham, ON).

Proposals were evaluated using a highly structured and rigorous RFP evaluation framework by the Voice Radio Evaluation Team, which included Regional Staff, Waterloo Regional Police Service, Cambridge Fire Service (representing all Fire Service Users across the Region), and the Region's consultants. Through this process, the submission from Motorola Solutions Canada Inc. obtained the highest overall score, and as such was recommended for approval to Regional Council on March 22, 2017.

The RFP included the provision of the following user-gear for the Township of Wilmot: fifty-six (56) portable radios and fifty-one (51) mobile radios. Of the mobile radios, twenty-two (22) will be allocated to Wilmot Fire, nineteen (19) to Roads operations and ten (10) to Utilities operations.

Due to the scale of this project, the deployment of radios was anticipated to occur over 2017 and 2018. However, through the bid process it was determined that significant discounts could be achieved through a bulk purchase of all radios within 2017. As such, lower tier municipalities are being requested to take ownership of their equipment within the current fiscal year.

Regional staff will be meeting with each stakeholder group to finalize the radio and accessory orders over the next two to three months, and cost estimates will be updated accordingly.

Strategic Plan Conformity:

This report is aligned with the goal of enjoying our quality of life through ensuring people's safety with upgraded and more reliable emergency dispatch services. In addition the co-operative purchasing methodology deployed for this initiative is aligned with our goal of being an engaged community through strengthening customer service.

Financial Considerations:

The total value of the contract awarded by the Council of the Region of Waterloo is approximately \$25,000,000, including approximately \$8,000,000 worth of user gear. As noted previously, the estimated allocation of costs to the Township of Wilmot for user gear will be \$300,000, excluding applicable taxes.

The Council approved 2017 Capital Program and 10-year Capital Forecast included the following funding towards the Digital Radio Upgrades for Wilmot:

	2017 Funding	2018 Funding	Total
Fire Services	\$400,000	-	\$400,000
Public Works – Roads	-	\$50,750	50,750
Public Works – Utilities	-	26,700	26,700
Total	\$400,000	\$76,750	\$476,750

As noted previously, due to discounts associated with a bulk purchase, all radios will be purchased within fiscal 2017. In the case of Wilmot, our 2017 approved capital budget has sufficient funding available to cover our proportion of the purchase. However, since a portion of the cost will be associated with radios for a user-pay service (Utilities), the current year funding for this project will be adjusted as follows:

	2017 Funding	Source
Fire Services	\$338,500	General Levy
Public Works – Roads	40,300	General Levy
Public Works – Utilities	21,200	Water/Sanitary Reserve
Total	\$400,000	

The cost allocation from the Region is estimated at \$300,000 for Wilmot user-gear. The additional funding of approximately \$100,000 is anticipated to be more than sufficient to cover any additional accessory costs associated with antennas, repeaters, carrying cases, etc. The actual costs and funding allocations will be reported as part of quarterly capital reporting to Council.

Conclusion:

The Township supports this initiative, which is a collaborative effort to strengthen emergency radio communications across the entire Region. Upon Council approval, staff will notify Regional staff, and begin discussions to finalize orders for Wilmot Fire Service and Public Works staff.

Patrick Kelly CPA, CMA

Director of Finance

Gary Charbonneau

Director of Public Works

Michael Raine

Fire Chief

Reviewed by Grant Whittington

Chief Administrative Officer



Township of Wilmot ***REPORT***

REPORT NO. PW-2017-03

TO: Council

PREPARED BY: Gary Charbonneau, Director of Public Works

DATE: March 27, 2017

SUBJECT: Culvert Replacement on the Wilmot-Easthope Road

Recommendation:

That the tender submitted by Theo Vandenberg Construction Inc. for the replacement of a concrete culvert located on the Wilmot-Easthope Road 230 metres north of Christner Road (Structure No. 42/B-ESH) , in the amount of \$321,995.00, plus applicable taxes, be accepted.

Background:

The 2015 structure appraisal report recommended that the culvert located on the Wilmot-Easthope Road, 230 metres north of Christner Road, be replaced based on the observed site conditions which, included exposed and disintegrated foundation footings and disintegrated wingwalls.

Engineering services, which are being provided by K. Smart, were previously approved by Council in 2016. The engineering design for a poured-in-place concrete box culvert which, will replace the existing structure has been completed.

Discussion:

We received tenders for the replacement of the existing culvert located on the Wilmot-Easthope Road and the results are as follows:

Theo Vandenberg Construction Inc., Denfield	\$321,995.00
Engineered Concrete Limited, Kitchener	\$345,075.78
Kieswetter Excavating Inc., St. Clements	\$386,390.00
Finnbilt General Contracting Limited, Stratford	\$388,063.69
CSL Group Ltd., Ancaster	\$398,015.00
Facca Inc., Ruscom Station	\$413,000.00
Lancoa Contracting, Caledon	\$437,104.80
Maloney & Pepping Construction Ltd., Stratford	\$450,932.00
SLR Contracting, Windsor	\$534,708.00

Strategic Plan Conformity:

Maintaining our infrastructure ensures a prosperous economy for our municipality.

Financial Considerations:

The recommended tender is within the approved 2017 Budget amount of \$330,000 allocated for this project.

Conclusion:

K. Smart has reviewed the tenders and is recommending that the work be awarded to Theo Vandenberg Construction Inc. K. Smart has worked with this company on similar projects and they have successfully completed similar projects in Wilmot. The contractor has the ability to complete this project in a satisfactory and timely manner. Construction is expected to begin in early July with completion prior to the start of the new school year in September.

Gary Charbonneau
Director of Public Works

Grant Whittington
Reviewed by CAO



Township of Wilmot REPORT

REPORT NO.	PW-2017-04
TO:	Council
PREPARED BY:	Gary Charbonneau, Director of Public Works
DATE:	March 27, 2017
SUBJECT:	Request for Speed Reduction on Perth Street, New Hamburg

Recommendation:

That report PW-2017-04 be received for information purposes.

Background:

A petition, from residents of Perth Street north of the railway bridge, was presented to Council on January 16, 2017 requesting that a reduction in the speed limit on Perth Street be implemented as follows:

- 40 km/hr for a distance of 150m north of the railway bridge
- 60 km/hr from 150m north of the railway bridge to the intersection with Wilmot-Easthope Road

Council passed a recommendation that staff further investigate the speed limit request on Perth Street.

Report:

The section of Perth Street north of the railway tracks is outside of the settlement area boundary for New Hamburg and as per the Highway Traffic Act the speed limit is set at 80km/hr. This area is rural in nature having fewer residences, typically on larger lots and with a further setback from the road. At the narrow wooden bridge over the railway tracks the speed limit is reduced to 15km/hr.

We reviewed traffic data for Perth Street north of the railway tracks and found the following:

- no history of accidents related to speed over the past ten years

- average annual daily traffic (AADT) has been decreasing with volumes of 725 in 2008, 475 in 2011 and 284 in 2014
- average speed of 57km/hr.
- 85th percentile speed of 68km/hr. (the speed at, or below which, 85% of motorists are travelling).

The Township utilizes the Ontario Traffic Manual (OTM) which, advises that the improper use of regulatory signs tends to cultivate disrespect for signs in general. In contrast the display of well-chosen and well-located signs will assist the road user.

In general it is very difficult to control speed and speed limit signs by themselves do not slow down traffic. Research has shown that most drivers travel at a speed they consider to be comfortable, regardless of the posted speed limits.

The data indicates that there is not a speeding problem and therefore we would not be recommending revised speed limits on this section of road.

We have advised Waterloo Regional Police Services of the resident's concerns such that they may determine if additional enforcement is warranted. We have also reviewed the existing signage on this section of Perth Street and determined that it meets the guidelines as indicated in the OTM for speed control. However, we propose to install pedestrians ahead signs which, will provide advance warning to motorists that pedestrians may be in the area. These signs are typically used in rural areas where, from a visual observation, the presence of pedestrians would come as a surprise to the motorist.

Strategic Plan Conformity:

We have a prosperous community through maintaining our infrastructure and ensuring people's safety.

Financial Considerations:

N/A

Conclusion:

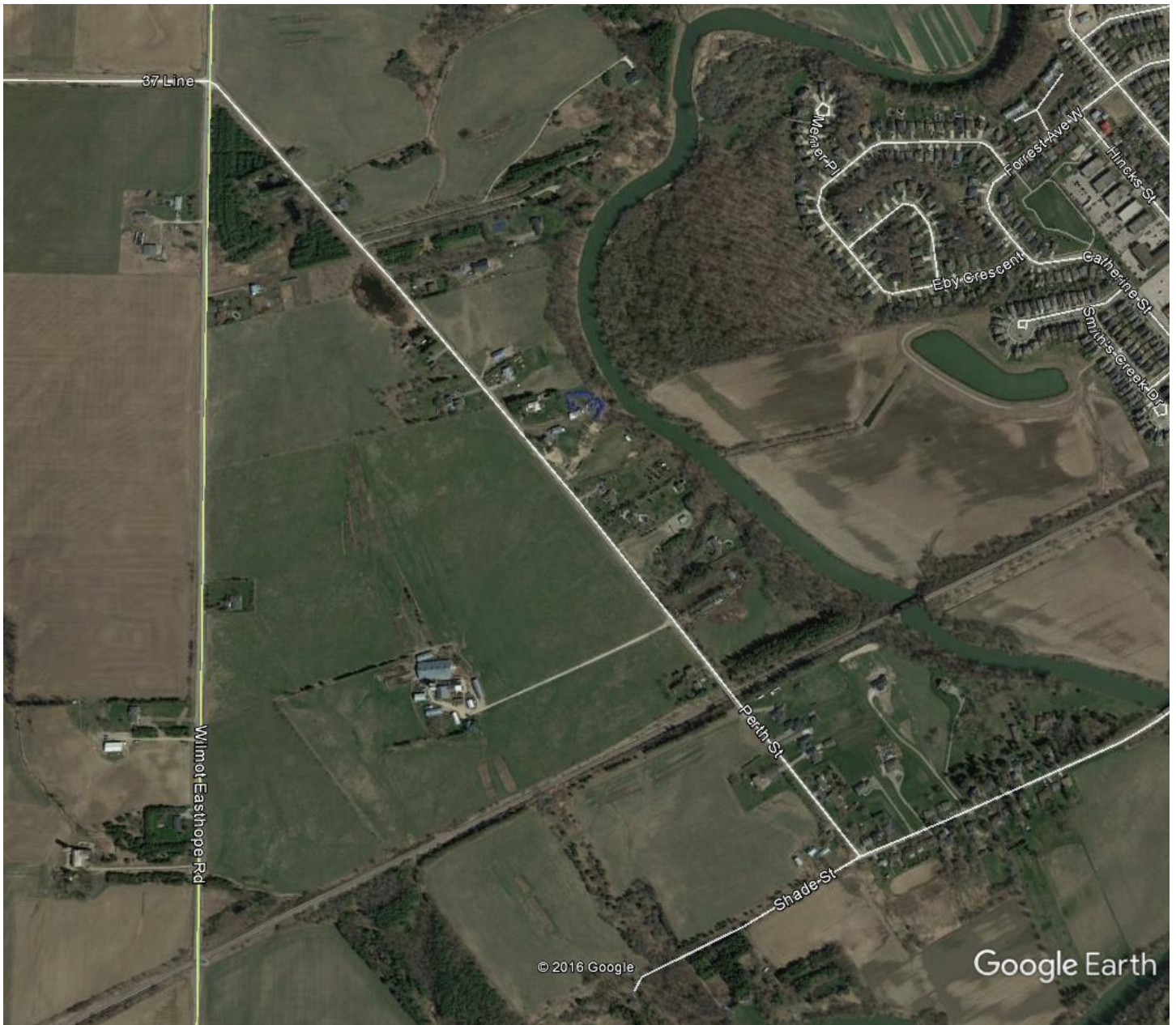
That report PW-2017-04 be received for information purposes and further that pedestrians ahead signs be installed on the section of Perth Street north of the railway bridge. We will continue to monitor Perth Street.

Gary Charbonneau

Director of Public Works

Grant Whittington

Reviewed by CAO



Google Earth

feet
meters



GRCA General Membership

Chair Helen Jowett

Vice-Chair Chris White

Townships of Amaranth, East Garafraxa, Melancthon and Southgate and Town of Grand Valley

Guy Gardhouse

Townships of Mapleton and Wellington North

Pat Salter

Township of Centre Wellington

Kirk McElwain

Town of Erin, Townships of Guelph/Eramosa and Puslinch

Chris White

City of Guelph

Bob Bell, Mike Salisbury

Region of Waterloo

Les Armstrong, Elizabeth Clarke,
Sue Foxton, Helen Jowett,
Geoff Lorentz, Jane Mitchell,
Joe Nowak, Wayne Roth,
Sandy Shantz, Warren Stauch

Municipality of North Perth and Township of Perth East

George Wicke

Halton Region

Cindy Lunau

City of Hamilton

George Stojanovic

Oxford County

Bruce Banbury

County of Brant

Brian Coleman, Shirley Simons

City of Brantford

Dave Neumann, Vic Prendergast

Haldimand and Norfolk Counties

Bernie Corbett, Fred Morison

\$31 million 2017 budget

The GRCA will spend about \$31 million this year on programs that protect water quality, reduce flood damages, protect natural areas, support responsible development and provide outdoor recreation and environmental education.

The budget was approved by the GRCA board at the AGM on February 24. The board is made up of 26 members appointed by the municipalities in the Grand River watershed.

Municipalities will contribute \$11 million in general municipal levy to the GRCA this year, about 36 per cent of the total budget. The municipal levy works out to about \$10.60 per resident. When compared to last year, this is a 2.5 per cent increase, or 11 cents per resident.

Government grants totalling about \$4 million represent about 13 per cent of the budget. This includes \$800,000 from municipalities towards the Rural Water Quality program. The remainder is primarily provincial grants, which include funding of over \$800,000 for the Source Protection Program.

The GRCA also receives about \$300,000 from the federal government. Approximately \$220,000 of this funding this year is in support of Canada 150 projects.

The GRCA generates \$14.6 million, or about 47 per cent, of its own revenue through sources such as camping fees, park admissions, nature centre programs, hydro sales, property rentals, tree sales, planning permits and donations raised by the Grand River Conservation Foundation.

electricity from the proposed new hydro generating station. The IESO agreement was finalized and a request for engineering proposals was issued late in 2016.

The EA and the design are the first stage of this project and this is anticipated to take 12 to 18 months to complete.

The full project will take about five years and the new plant is expected to be commissioned early in 2021.

Moderate risk of flooding this spring

The overall flood risk in the Grand River watershed this spring is moderate, with the highest potential for flooding from heavy rain on saturated or frozen ground and along the Lake Erie shoreline.

The forecast was presented at the GRCA's annual meeting of municipal flood co-ordinators on February 22. The meeting is one of a series held each year, as the GRCA works closely with municipal officials to operate, test and improve the flood warning system.

The GRCA monitors weather and river conditions and issues warnings to municipal flood co-ordinators. When a flood message is issued, municipalities implement their local flood response program by warning residents, closing roads, managing evacuations and taking other actions.

This fall was very dry, but higher than normal precipitation returned in December. It has continued over the past three months. Along with higher precipitation, temperatures have fluctuated, resulting in cycles of melt and freeze accompanied by cycles of rain and snow.

The major reservoirs are at their normal levels for this time of year and Lake Erie is well above the long-term average level for this time of year. This is slightly above the levels they were at this time last year. Lake Erie is virtually free of ice, including the mouth of the Grand River.

Park Hill Dam hydro plant EA and design contract

The GRCA is hiring WSP Consultants for \$360,000 to carry out an Environmental Assessment and to design the proposed Park Hill Dam hydro generating station in Cambridge.

In September 2016, the GRCA board authorized staff to enter into an agreement with the Independent Electricity System Operator (IESO) under the Feed-in-Tariff Program for the sale of



Visit from Minister Kathryn McGarry

Kathryn McGarry, Cambridge MPP and Minister of Natural Resources and Forestry, spoke briefly at the GRCA's annual general meeting February 24.

McGarry is leading the review of the Conservation Authorities Act, which governs Ontario's 36 conservation authorities. Public consultation on the review of the act was completed last September and McGarry thanked the GRCA for comments that were submitted.

The proposed new legislation is being finalized and she expects to introduce it in the legislature in the near future. She said the revised act could be passed into law in the fall of 2017.

Drayton flood meeting

Residents of Drayton and Mapleton can learn more about flooding at a public open house being hosted by the GRCA and the Township of Mapleton March 23.

Flooding along the Conestogo River occurs in Drayton and some other areas within Mapleton Township. This open house will explain the flood warning system, how to reduce the risks to your property and what to do after a flood. It will include displays on flooding, new maps showing flood warning levels in Drayton and other information.

The open house takes place at the PMD arena, 68 Main Street West, Drayton from 4:30 p.m. to 7 p.m. and representatives of several organizations will be on hand to answer questions.

Roads closed at end of February

Highway 25 through Grand Valley and the low level bridge upstream of St. Jacobs at 1505 Three Bridge Road were both closed during the last weekend in February.

Flood messages about the closures were issued on February 23 and 24. Warm weather and heavy rains of 25 mm brought the last snowpack off the northern part of the watershed.

The weather outlook for March and April is warmer than normal.



Sheri Lovell of Rockwood received the top prize in the GRCA photo contest in the nature category for this photo of the Eramosa River as it flows through Rockwood Park. She lives in Rockwood and zipped over when she saw this dramatic sky as a storm approached.

Watershed heroes

Do you know a watershed hero?

Nominations for 2017 Watershed Award recipients can come from anyone in the watershed and must be made by May 1.

These awards go to individuals, families, groups and businesses that put their time and energy into improving the Grand River watershed. The GRCA has presented these awards each year since 1976.

More information on the program, including short biographies of past winners and a nomination form, can be found on www.grandriver.ca/awards.

Winners will be honored at a special event in the fall.

Tree planting services

The GRCA is hiring two contractors to plant more than 100,000 trees this year.

Some tree planting is contracted out by the GRCA in blocks based on the planting method and tree size. This allows many people to work at the same time to plant trees quickly, because bare root planting season is not long and starts as soon as the frost leaves the ground.

The Black River Tree Planting contract is valued at nearly \$40,000 and the Quiet Nature Ltd. contract is valued at \$65,000.

Planting on private land is paid for by property owners, but their costs are often offset by funding that comes from a variety of programs, including the Rural Water Quality Program, Forests Ontario and the Habitat Stewardship Program. Plantings on GRCA property are funded through external programs and donations.

About 30 million trees have been planted by the GRCA and its partners since the beginning of the planting program.

This issue of *GRCA Current* was published in March, 2017.

It is a summary of the February, 2017 business conducted by the Grand River Conservation Authority board and committees, as well as other noteworthy happenings and topics of interest.

The Grand River Conservation Authority welcomes distribution, photocopying and forwarding of *GRCA Current*.

Next board meeting:

March 24 at 9:30 a.m.,
GRCA Administration Centre

Subscribe to GRCA Current and other news:

www.grandriver.ca/subscribe

View meeting agendas:

<https://calendar.grandriver.ca/directors>

View coming events:

www.grandriver.ca/events



BUCKINGHAM PALACE

15th March, 2017.

Dear Mr. Mayor,

Thank you for the message you have sent to The Queen on behalf of the people of the Corporation of the Township of Wilmot on the occasion of the sixty-fifth anniversary of Her Majesty's accession to the throne.

The Queen much appreciated your kind words and, in return, sends her best wishes to you and all concerned.

Yours sincerely,
Christopher Sandamas

Christopher Sandamas
Chief Clerk

The Worshipful the Mayor of the Township of Wilmot.

TOWNSHIP OF WILMOT

BY-LAW NO. 2017-15

BY-LAW TO FURTHER AMEND BY-LAW NO. 83-38 OF THE TOWNSHIP OF WILMOT BEING A ZONING BY-LAW FOR THE SAID TOWNSHIP OF WILMOT.

WHEREAS The Corporation of the Township of Wilmot deems it desirable to further amend By-law No. 83-38, being a Zoning By-law for the said Township of Wilmot.

NOW THEREFORE THE MUNICIPAL COUNCIL OF THE CORPORATION OF THE TOWNSHIP OF WILMOT ENACTS AS FOLLOWS:

1. The lands described on Schedule 'A' and illustrated as "Part A" on Schedule 'B', attached to and forming part of this by-law, hereby removed from Zone 1 (Agricultural) and placed within Zone 2 (Residential);
2. Notwithstanding the provisions of By-law 83-38, for the lands described on Schedule "A" and illustrated as "Part A" on Schedule "B" attached to and forming part of this by-law, the minimum lot frontage and lot width shall be 4.6m.
3. Notwithstanding the provisions of By-law 83-38, for the lands described on Schedule "A" and illustrated as "Part B" on Schedule "B" attached to and forming part of this by-law, the minimum lot frontage shall be 115m and the minimum lot area shall be 15.3ha.
4. Except as amended by the preceding regulations, the lands described on Schedule "A" attached to and forming part of this by-law and shown on Schedule "B" attached to and forming part of this by-law, shall be subject to all other applicable regulations as set down in By-law No. 83-38, as amended.
5. This by-law shall come into effect on the final passing thereof by the Council of The Corporation of the Township of Wilmot subject to compliance with the provisions of The Planning Act, R.S.O., 1990 and amendments thereto.

READ a first and second time on the 27th day of **March, 2017**.

READ a third time and finally passed in Open Council on the 27th day of **March, 2017**.

MAYOR

CLERK

SCHEDULE "A"

ALL AND SINGULAR that certain parcel or tract of land and premises situate, lying and being in the Township of Wilmot, in the Regional Municipality of Waterloo and Province of Ontario being composed of Part of Lot 5 and 6, Concession South of Erb's Road in the said Township of Wilmot.

This is Schedule "A" to By-law No. **2017-15**.

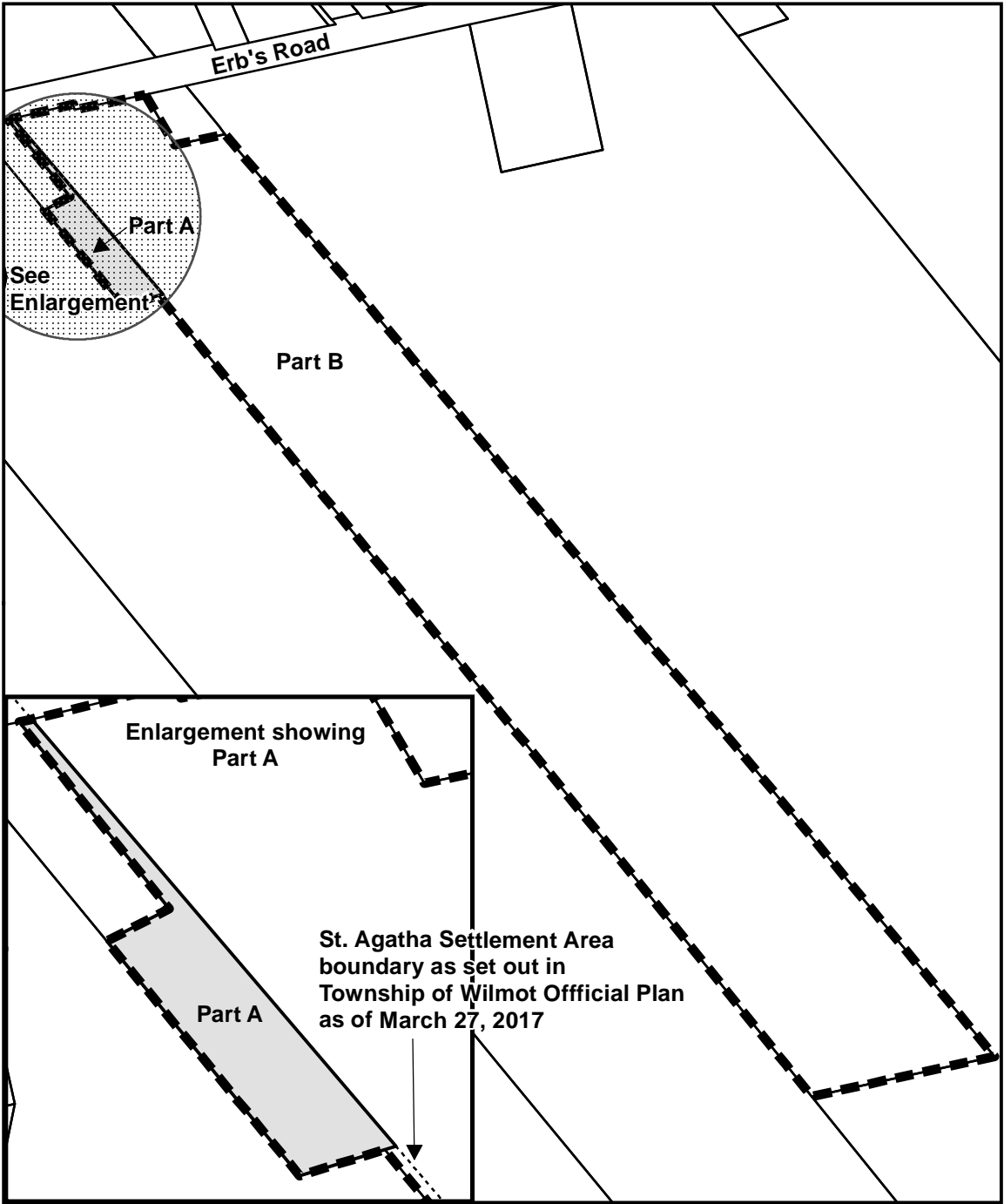
PASSED this **27th** day of **March, 2017**.

MAYOR

CLERK

SCHEDULE "B"
PART OF LOTS 5 AND 6
CONCESSION SOUTH OF ERB'S RD
TOWNSHIP OF WILMOT

SUBJECT LANDS OUTLINED THUS: - - - - -



THIS IS SCHEDULE "B" TO BY-LAW NO. 2017-15
PASSED THIS 27TH DAY OF MARCH, 2017.

MAYOR

CLERK

