



**The Corporation of the Township of Tay  
Special Public Works Committee Meeting**

**April 9, 2019  
3:00 p.m.**

**Municipal Office Council Chambers  
Agenda**

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- 1. Call to Order**
- 2. Disclosure of Interest**
- 3. Adoption of the Agenda**
- 4. Staff Reports / Other Business**
  - 4.1 Report from the Director of Public Works  
Report No.: PW-2019-38  
Re: 2019 Road Program Discussion
  - 4.2 Report from the Director of Public Works  
Report No.: PW-2019-17  
Re: Double Surface Treatment & Gravel Rehabilitation  
(deferred Municipal Report 2019-03-01, Recommendation #11)
  - 4.3 Report from the Director of Public Works  
Report No.: PW-2019-27  
Re: 2019 Gravel Program and Contract  
(deferred March 27<sup>th</sup>, 2019 Council)
- 5. Items for Information**
  - 5.1 Presentation from the Director of Public Works  
Re: 2018 Road Program Issues
  - 5.2 Report from the Director of Public Works  
Report No.: PW-2018-49  
Re: Contract 2018-30, Gervais Road Surface Options
  - 5.3 Report from the Director of Public Works  
Report No.: PW-2019-07  
Re: Roads Long Term Plan Update
  - 5.4 Report from the Director of Public Works  
Report No.: PW-2019-09  
Re: 2019 Road Program Options
- 6. Adjournment**



## STAFF REPORT

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**Department/Function:** Public Works

**Chair:** Councillor Barry Norris

**Meeting Date:** April 9, 2019

**Report No.:** PW-2019-38

**Report Title:** 2019 Road Program Discussion

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### **RECOMMENDATION:**

**That Staff Report No. PW-2019-38 regarding discussion of the 2019 road program be received for information.**

### **INTRODUCTION/BACKGROUND:**

This report provides a summary of the current approved 2019 road and related works. Related reports are included in the Items for Information section of the agenda. In addition, the agenda has two deferred reports related to tenders received; one for gravel, and, one for surface treatment and slurry seal.

At the budget meeting held on January 24, 2019, Committee received report PW-2019-07. That report presented an update to the 2019 to 2028 Roads Long Term Plan. The program followed the Road Needs Study (RNS) as closely as possible. Deviations from the RNS were noted. Committee recommended that Gratrix Road be removed from the 2019 program and requested that staff provide a recommendation for alternative road work.

At the meeting on February 6, 2019, Council received report PW-2019-09. That report presented options for the 2019 road program. Option 3 of that report was selected with the exclusion of Hogg Valley Road and the inclusion of 1,500 metres of Gervais Road.

Based on those approvals, tenders were issued for both; the supply of gravel, and, the placement of double surface treatment and slurry seal. Reports on those

tenders have been deferred to this meeting. Committee did indicate that the 2019 Gravel Program should be deleted.

The current approved roads and sidewalk program is set out below:

<b>Surface Treatment and Slurry Seal</b>	
Ron Jones Rd - 200m N of Hogg Valley Rd to McMann Sideroad	\$145,000
Duck Bay Rd - Meadows Ave to North Limit	\$70,000
Gervais Rd - 1500m section b/t Vasey Rd and Hogg Valley	\$193,322
Rumney Rd - Elliott Sideroad to 1850m South	\$260,000
<b>Pulverize Only</b>	
Triple Bay Rd - North Limit to Comber Place	\$40,000
Ebenezer Side Rd - Old Penetanguishene Rd to Wood Rd	\$65,000
<b>Asphalt</b>	
First Ave - Woodlands Ave to Arpin St	\$450,000
<b>Sidewalks</b>	
Seventh Ave - McNicoll to Alberta St	\$127,000
Talbot St - Fifth to Seventh Ave	\$120,000

In addition, it was inferred from the March 13, 2019 meeting that surface treatment and slurry seal of Ebenezer was intended. The Long Term Plan had included \$204,000 for this.

### **ANALYSIS:**

Committee requested an opportunity to discuss the 2019 road program prior to the award of the tenders that have been received and the preparation of tenders for other works. Discussion at the April 9, 2019 meeting should result in decisions on the program for 2019. To the degree possible direction from the April 9, 2019 meeting should be ratified on April 10, 2019.

It is unlikely that Committee will be unanimous on the road sections, scope and timing of any proposed program. It is hoped that the bulk of the program can be confirmed and other road sections, in priority order, can be identified.

**FINANCIAL/BUDGET IMPACT:**

The 2019 capital budget plus the recently announced gas tax funding are summarized below:

Surface Treatment and Slurry Seal	\$668,322	\$773,322
Pulverize Only	\$105,000	
Asphalt		\$450,000
Gravel Program		\$164,407
Sidewalks		\$247,000
Gas Tax Addition		\$310,000
Total		\$1,944,729

The current best estimate of cost for the committed program is summarized below:

Surface Treatment and Slurry Seal and Pulverize Only	\$686,129
Asphalt	\$450,000
Gravel Program	\$0
Sidewalks	\$247,000
Surface Treatment of Ebenezer	\$204,000
Total	\$1,587,129

**CONCLUSION:**

Direction is needed to confirm the works that may be completed within the gravel supply and surface treatment tenders that the Township has received. In addition, direction is needed on what other works should be completed this year.

Prepared By: Peter Dance, Director of Public Works

Recommended by:

Date: April 3, 2019

Peter Dance, P. Eng.  
Director of Public Works

Reviewed By;

Date: April 3, 2019

Robert J. Lamb, CEcD, Ec.D.  
Chief Administrative Officer



## STAFF REPORT

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**Department/Function:** Public Works

**Chair:** Councillor Barry Norris

**Meeting Date:** March 13, 2019

**Report No:** PW-2019-17

**Report Title:** Double Surface Treatment and Gravel Rehabilitation

**RECOMMENDATION:**

That Staff Report No. PW-2019-17 regarding Double Surface Treatment and Slurry Seal contract 2019-04, and Gravel Rehabilitation contract 2019-06, be received;

And that the Council of the Township of Tay accepts the Double Surface Treatment and Slurry Seal tender low bid from Duncor Enterprises Inc. in the amount of \$291,388.50 plus HST;

And that the Council of the Township of Tay accepts the Gravel Rehabilitation tender low bid from Dufferin Aggregates in the amount of \$168,913.00 plus HST;

And that staff be directed to prepare the by-law authorizing the execution of the contract between the Township of Tay and Duncor Enterprises Inc. for the Double Surface Treatment and Slurry Seal;

And that staff be directed to prepare the by-law authorizing the execution of the contract between the Township of Tay and Dufferin Aggregates for the Gravel Rehabilitation.

**INTRODUCTION/BACKGROUND:**

Included in the 2019 Capital Budget are funds for Road Resurfacing and the Gravel Program. The Public Works Department has invited bids from suppliers through a competitive tender process for the supply and placement of double surface treatment and slurry seal as well as the supply of gravel for the Township's gravel program.

The tenders were advertised on Biddingo and the Township website. The tender closed on March 1, 2019 at 2:00 pm. At that time there were two bids received for Double Surface Treatment and Slurry Seal and four bids received for Gravel Rehabilitation. The bids were opened by the Director of Finance, the Director of Public Works, the Administrative Assistant for the Roads/Parks Operations and the Manager of Roads and Fleet.

The roads to receive Gravel and Surface Treatments are:

Road Name	From	To	Gravel	Surface Treatment
Connors Crt	Rosemount Rd	South Limit	X	
Granny White SR	Reeves Rd	Newton St.	X	
Granny White SR	Newton St.	1260m E of Newton St	X	
Rosemount Rd	Trail (C.N.R)	Vasey Road	X	
Wood Rd	McMann SR	800m N of McMann SR	X	
Wood Rd	Ebenezer SR.	800m N	X	
Wood Rd	2092 Wood Rd	Forgets Rd.	X	
Ron Jones Road	200m North of Hogg Valley Road	McMann Side Road	X	X
Duck Bay Road	Meadows Avenue	Forest Harbour Pkwy	X	X
Ebenezer Side Road	Old Penetanguishene Road	Wood Road	X	
Rumney Road	Elliott Side Road	1850 metres South	X	X
Gervais Road	Vasey Road	1500 metres North	X	X

## **ANALYSIS:**

The Double Surface Treatment and Slurry Seal bidders and their prices excluding HST are as follows:

<b>Company Name</b>	<b>Bid Price</b>	<b>Meets Tender Requirements</b>
Duncor Enterprises Inc.	\$291,388.50	Yes
Miller Paving Ltd.	\$336,307.50	Yes

Staff examined the bids in detail for proper documentation and pricing for arithmetical errors. All bids conform to the tender requirements.

Duncor Enterprises Inc., the low bidder, has the equipment, knowledge and experience to do this type of work. Township staff has spoken with Duncor Enterprises staff and they are aware of the scope of work and have no concerns. Township staff feels they are competent to complete this type of work.

The Gravel Rehabilitation bidders and their prices excluding HST are as follows:

<b>Company Name</b>	<b>Bid Price</b>	<b>Meets Tender Requirements</b>
Dufferin Aggregates	\$168,085.50	Yes
Robinson Haulage Inc.	\$175,431.00	Yes
Duivenvoorden Haulage Ltd.	\$178,613.00	Yes
Lafarge Canada Inc.	\$208,399.50	Yes

Staff examined the bids in detail for proper documentation and pricing for arithmetical errors. All bids conform to the tender requirements.

Dufferin Aggregates, the low bidder, has the equipment, knowledge and experience to do this type of work. Township staff has spoken with Dufferin Aggregates staff and they are aware of the scope of work and have no concerns. Township staff feels they are competent to complete this type of work.

## **FINANCIAL/BUDGET IMPACT:**

Due to the capital road resurfacing projects requiring the addition of gravel we included the gravel portion of the resurfacing project in the Gravel Rehabilitation tender.

### Road Resurfacing

The table below provides the estimated project costs for 2019 capital resurface projects (Excluding First Avenue) using bid prices, where known (bold). The project cost will be well within the allocated budget. This is in part due to lower than anticipated gravel costs. The 2019 Capital Budget for Road Resurfacing (Excluding First Avenue) is a total of \$773,322.

It is noted that a separate tender was issued for the pulverization of various road sections. That tender is within the allocated budget.

Item	Estimated Project Costs
<b>Surface Treat</b>	<b>\$194,922.00</b>
<b>Slurry Seal</b>	<b>\$96,466.50</b>
<b>Pulverize</b>	<b>\$30,702.00</b>
<b>Gravel</b>	<b>\$75,795.80</b>
Fine Grade/Compact	\$32,000.00
Shouldering	\$52,000.00
Ditching and Drainage	\$80,000.00
Misc. & Testing (5%)	\$28,094.25
Contingency (15%)	\$84,282.75
Sub Total	\$674,262.00
HST (1.76%)	\$11,867.01
Total	\$686,129.01

From the above, the surface treat item and the slurry seal item represent the Duncor bid ( $\$194,922.00 + \$96,466.50 = \$291,388.50$ ).

### Gravel Program

The table below provides the estimated project costs for 2019 capital gravel program using bid prices, where known (bold). The project cost will be will within the allocated budget. The 2019 Capital Budget includes the gravel program for a total of \$164,407. The budget allocation anticipated a greater distance of road than is required.

Items	Estimated Project Cost
<b>Gravel</b>	<b>\$92,289.70</b>
Fine Grade/Compact	\$32,000.00
Sub Total	\$124,289.70
HST (1.76%)	\$2,187.50
Total	\$126,477.20

From the above two tables, the two gravel items equal the Dufferin bid ( $\$75,795.80 + \$92,289.70 = \$168,085.50$ ).



## **CONCLUSION:**

It is recommended that Council accepts the low bid from Duncor Enterprises Inc. for Double Surface Treatment and Slurry Seal and that Council accepts the low bid from Dufferin Aggregates for the Gravel Rehabilitation. Staff will prepare the by-laws to authorize execution of these contract documents.

Prepared by: Lyell Bergstrom, Manager of Roads and Fleet

Recommended by:

Date:

Peter Dance  
Director of Public Works

Reviewed by:

Date:

Robert Lamb  
Chief Administrative Officer



## STAFF REPORT

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**Department/Function:** Public Works

**Chair:** Mayor Ted Walker

**Meeting Date:** March 27, 2019

**Report No:** **PW-2019-27**

**Report Title:** **2019 Gravel Program and Contract**

**RECOMMENDATION:**

**That Staff Report No. PW-2019-27 regarding Gravel Rehabilitation Contract 2019-04 and Double Surface Treatment and Slurry Seal Contract 2019-06 be received;**

**And that the Council of the Township of Tay accepts the Gravel Rehabilitation tender as amended to reduce the gravel quantity and increase the price from \$12.00 - \$12.80 per tonne to \$13.00-\$13.80 per tonne, from Duivenvoorden Haulage Ltd. in the amount of \$72,204.00 plus HST;**

**And that staff be directed to prepare the by-law authorizing the execution of the contract between the Township of Tay and Duivenvoorden for the Gravel Rehabilitation Contract with the amended scope and unit price;**

**And that Ebenezer Side Road (Wood Road to Old Penetanguishene Road) be added to the 2019 Double Surface Treatment and Slurry Seal Program with funding from the surplus in that approval and the Gravel Program budget.**

**INTRODUCTION/BACKGROUND:**

Further to report PW-2019-17 with regards to the Gravel Rehabilitation tender 2019-06; please note the correction that the low bid is Duivenvoorden Haulage Ltd. with a bid price of \$148,613.00 excluding HST, not Dufferin Aggregates (\$168,913.00) as noted in report PW-2019-17.

As per the motion approved at Committee of All Council on March 13<sup>th</sup>, staff was directed to remove the gravel road program items from the Gravel Rehabilitation tender 2019-06 and reach out to the low bidder to inquire whether this would affect the unit pricing received in their bid submission. Unfortunately due to the reduced scope of work the bidder cannot hold their pricing and has responded with a \$1.00 per tonne price increase. With this increase the bidder's rate is still lower than the other bidders. The proposed gravel tender amount will be \$72,204.00, with a total budget impact of \$78,474.79.

Due to the reduced scope of the gravel tender staff proposes that the surplus budget goes towards the rehabilitation of Ebenezer Side Road from Old Penetanguishene Road to Wood Road. This will include additional granulars, drainage and double surface treatment with slurry seal. This will affect the items in the corresponding tenders.

In discussions with Duncor with regard to the potential increase in scope they were happy to hold their unit rate of \$5.88 per square metre for double surface treatment and \$2.91 per square metre for the application of slurry seal.

#### **FINANCIAL/BUDGET IMPACT:**

The completion of the surface treatment rehabilitation project on Ebenezer is estimated at \$204,000 this can be accommodated with the \$164,407.00 allocation for the Gravel Program and the approximate \$90,000 surplus in the 2019 Surface Treatment and Slurry Seal Program.

#### **CONCLUSION:**

It is recommended that Council accepts the low bid from Duivenvoorden Haulage Ltd. for the Gravel Rehabilitation Contract with the reduced scope and increased rates and that Ebenezer Side Road be added to the surface treatment program. Staff will prepare the by-law to authorize execution of these contract documents.

Prepared by: Lyell Bergstrom, Manager of Roads and Fleet

Recommended by:

Date:

Peter Dance  
Director of Public Works

Reviewed by:

Date:

Robert Lamb  
Chief Administrative Officer

# TAY TOWNSHIP



## Road Program Issues 2018

Presented By:  
Peter Dance,  
Director of Public Works

April 25, 2018



## Scheduled Road Work 2018

### ■ Grandview Beach and Paradise Point Project

- Gloucester Grove
- Silver Birch Crescent
- Evergreen Avenue
- Paradise Avenue
- Grove Street
- Poplar Avenue
- Waterside Drive
- Oriole Street
- Yeoger Drive
- Dignard Avenue

- Kingfisher Avenue
- Beach Drive
- Woodland Avenue
- Earldom Boulevard
- Patterson Boulevard
- First Avenue (North of Woodlands Ave.)

- Alberta Street
- Gervais Road



## John Dillingno Street & Albert Street

- Engineering Design 50% Complete
- Was to be 2018 but was deferred
- Need to consider how to proceed
- Road Needs Study suggests that John Dillingno Street resurfacing be scheduled for 2028, and Albert Street be scheduled for 2024.



## Duck Bay Road

- Meadows Avenue to Forest Harbour Parkway
- May 10<sup>th</sup> 2017, Committee received petition with regards to this road section
- Road Needs Study suggests Duck Bay Road be resurfaced in 2020



## Bridges

- Annually some capital work is scheduled further to the required inspection reports.

## Rosemount Road

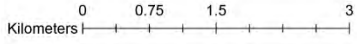
- Rosemount South Bridge, approximately 1.75km south of Highway 12 on Rosemount Road.
- Scheduled for replacement in 2021 at a cost of approximately \$1,360,000



# Road Implementation Plan

## Appendix H

### 2018 - 2029



#### Year of Road Implementation

- 2018
- 2019
- 2020
- 2021
- 2022
- 2023
- 2024
- 2025
- 2026
- 2027
- 2028
- 2029

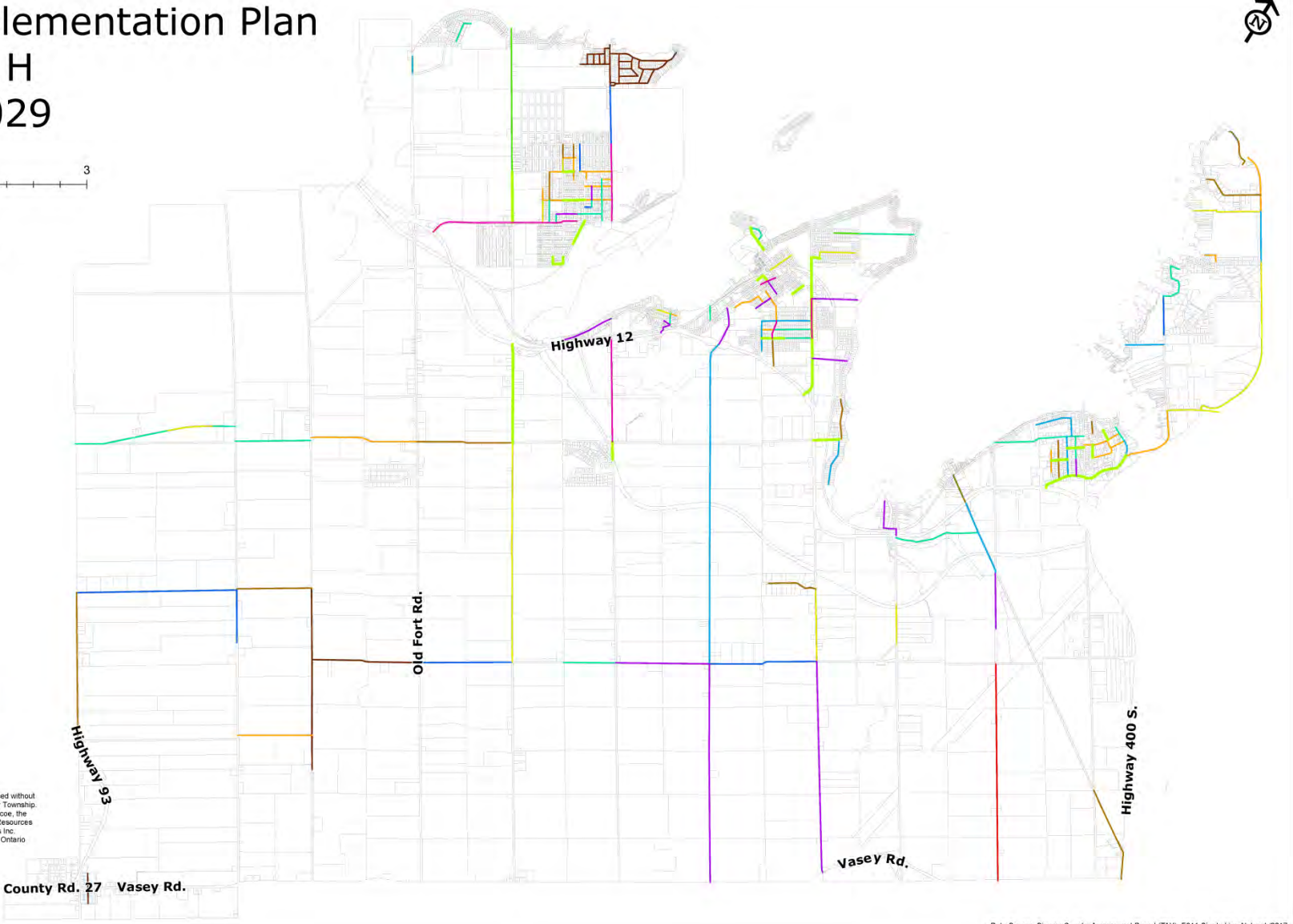


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Data Source: Simcoe County: Assessment Parcel (TAY), E911 Single Line Network/2017.

# Road Implementation Plan

## Appendix H

### 2019 - 2022



0 0.75 1.5 3  
Kilometers

#### Year of Road Implementation

- 2019
- 2020
- 2021
- 2022

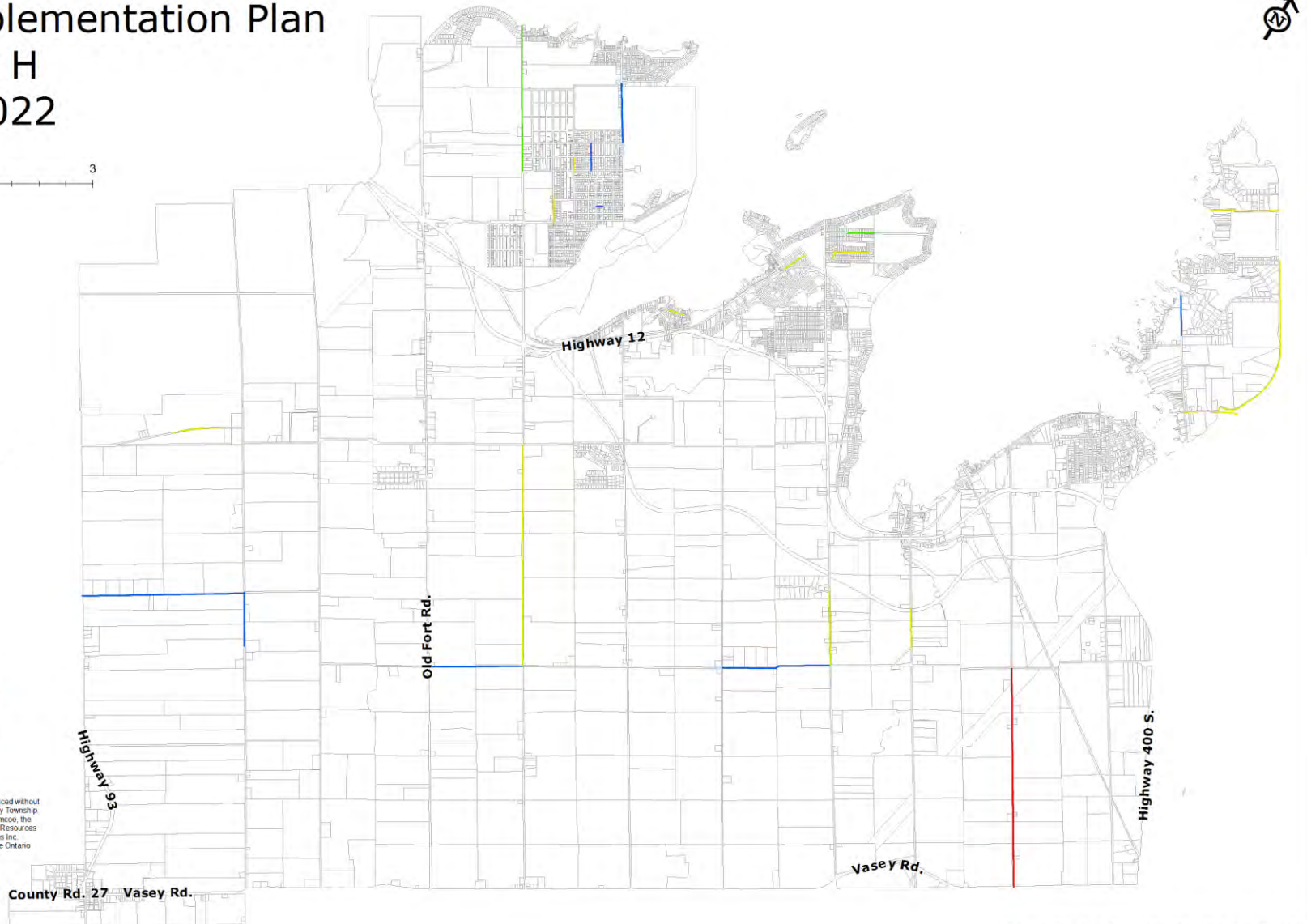


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Data Source: Simcoe County Assessment Parcel (TAY), E911 Single Line Network/2017



## Road Surface Type / Life Cycle Cost

Life Cycle Cost for 1km of road 7m wide for 60 years. As per Road Needs Study 2017

Surface Type		Poor Base	Moderate Base	Good Base
Gravel	<b>Cost</b>	<b>\$709,200</b>	<b>\$548,400</b>	<b>\$465,400</b>
	Grading per year	48 Times	24 Times	12 Times
Surface Treatment	<b>Cost</b>	<b>\$846,840</b>	<b>\$537,420</b>	<b>\$357,520</b>
	Life	5 Years	10 Years	15 Years
Asphalt	<b>Cost</b>	<b>\$732,000</b>	<b>\$564,000</b>	<b>\$376,000</b>
	Life	10 Years	20 Years	30 Years



## Surface Management Program for Existing Gravel Roads

Kilometers of Gravel Road	Existing Drainage	Cost of Asphalt	Cost of Surface Treatment (with Slurry)
5	Good	\$ 1,266,293	\$ 642,960
9	Fair	\$ 2,156,889	\$ 1,095,160
15	Poor	\$ 3,365,368	\$1,708,765
29		\$ 6,788,550	\$ 3,446,885

Costs/Unit include an adjustment factor for basic construction, engineering, contingency, terrain and soil type

### ASSUMPTIONS

Improvement Type	Depth	Cost/Unit
Scarify & grade road		\$2/sq. m
Granular A	50 mm	\$20/tonne
Hot mix asphalt	65 mm	\$90/tonne
Double Surface Treatment		\$8/sq. m
Single lift (Slurry)		\$4/sq. m

Current Rates on a 10-year Infrastructure Loan are in the 3% range. **Cost of borrowing is approximately \$170K for each \$1M borrowed.**



## Decision Points

1. \$1.6 Million per year, or borrowing options
2. Gravel to Hard Surface Program
3. Direction on John Dillingno Street (RNS indicates 2028) and Albert Street (RNS indicates 2024)
4. Direction on Duck Bay Road (RNS indicates year 2020)
5. How to integrate Road Needs Study and other items into future planning

Staff will prepare a ten year plan to reflect Council's direction for presentation with the Long Term Plan at the start of the 2019 budget process.



## STAFF REPORT

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**Department/Function:** Public Works

**Chair:** Mayor Warnock

**Meeting Date:** June 27, 2018

**Report No.:** PW-2018-49

**Report Title:** Contract 2018-30, Gervais Road Surface Options

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### **RECOMMENDATION:**

That Staff Report No. PW-2018-49 regarding Contract 2018-30, Gervais Road Surface Options be received;

Whereas the Roads Need Study recommends a double surface treatment with slurry seal for all rural local roads with an AADT of 400 vehicles or fewer;

And whereas Gervais Road from Nielsen Road to Hogg Valley Road is a local rural road with a AADT of 350 vehicles;

Therefore Contract 2018-30, Gervais Road Surface Options be awarded to Duncor Enterprises for the price of \$71,700 plus HST;

And that this project be funded from the Future Capital Reserve;

And that staff be directed to prepare the by-law authorizing the execution of the contract between the Township of Tay and Duncor Enterprises.

### **INTRODUCTION/BACKGROUND:**

At the January 24, 2018 Council meeting, Council directed staff to issue an RFP for the different surface types and other work mentioned in Option 3 of staff report PW-2018-03. The surface type options were, 60mm of asphalt and surface treatment with a slurry seal applied the following year. Council



also directed to have the results of the RFP brought back to Council for final direction on surface type.

At the January 24, 2018 Council meeting, Council approved the funding of this project through the Future Capital Reserve and/or the Contingency Reserve. In review with treasury staff the Future Capital Reserve is the recommended funding source.

Staff issued an RFP with two surface options. Option 1, double surface treatment with a slurry seal applied the following year and Option 2, 60mm layer of hot mix asphalt.

Gervais Road is a local rural road with an average annual daily traffic count of about 350 cars a day.

The RFP was advertised on Biddingo and the Township website. The RFP closed on June 15, 2018 at 2:00 p.m. At that time three bids were received. The RFP was opened by the Clerk, Director of Public Works and Public Works Administrative Assistant.

### **ANALYSIS:**

The bidders, their prices (excluding HST), and the surface type proposed is as follows:

Bidder	Price	Surface Type
Duncor Enterprises	\$71,700.00	Double Surface Treatment
Coco Paving Inc.	\$107,466.50	Hot Mix Asphalt
Georgian Paving LTD	\$113,275.00	Hot Mix Asphalt

Staff examined all the bids for proper documentation and pricing for arithmetical errors. No issues were found with the any of the bids.

All of these prospective bidders have done work for the Township on past contracts without issues or concern.

It is assumed for the purpose of this report that the road base within this section of Gervais Road (Nielsen Road to Hogg Valley) is in moderate condition given no geotechnical investigation has been completed to suggest otherwise and there are no adverse performance issues during the spring that could suggest a poor base. However, the Roads Need Study (RNS) in Appendix H (and E) shows this section having poor drainage with the need for repair being now.

There is also three culverts that are in poor condition, whether it's due to deterioration of the barrel, misalignment of the pipe, improper grade of the inlet, scouring of the drainage course on the outlet side or lack of proper frost tapers, it should be expected that some work will be required within the next ten years to correct these deficiencies.

On page 24 of the RNS, Table 16 recommends surface treatment as the surface type for local, rural roads with an AADT of 201-400. Appendix E of the RNS does not recommend making any changes to the current surface type, surface width or shoulder and does not predict an increase in capacity for future growth.

### **FINANCIAL/BUDGET IMPACT:**

Only the low bidder for asphalt (Coco Paving) and Duncor Enterprises the lone bidder for surface treatment is being considered for this comparison.

The project cost by surface type is as follows:

60mm of asphalt, Coco Paving		Double Surface treatment with a slurry seal, Duncor Enterprises	
Bid Price	\$107,466.50	Bid Price	\$71,700.00
Net HST	\$1,891.41	Net HST	\$1,261.92
Total Price	\$109,357.91	Total Price	\$72,961.92

On page 38 of the RNS Table 26 suggests a ten year service life for surface treatment on a moderate base and Table 27 suggests a twenty year surface life for a single 65mm lift of asphalt on a moderate base. The following page, Table 29 concludes that surface treatment is the most feasible option for a moderate base, although the life-cycle cost for asphalt and surface treatment is similar for good and moderate bases. Since it's expected that some repairs to the road crossing culverts will be required within the next ten years, if asphalt is chosen as the surface type it will need to be cut, removed and replaced at these areas.

The Road Needs Study, Appendix H (and E) estimates \$106,000 for the resurfacing of Gervais Road at this section.

For reference, Report 2018-03 included costs of \$113,630 and \$171,050 for the surface treatment and asphalt options, respectively. These were based on 65 mm (rather than 60 mm) of asphalt and included a ten percent contingency. Using the Road Needs Study unit costs results in prices of \$101,500 and \$140,000 (65 mm), without a contingency.



## **CONCLUSION:**

The Township undertook a competitive bid process for the Gervais Road surface type options by issuing an RFP. The results of that RFP are listed in this report. As recommended in the Roads Need Study, surface treatment with a slurry seal is the preferred and most feasible option for local rural roads.

Prepared By: Bryan Ritchie, Manager of Roads and Fleet

Recommended By: Date:

Peter Dance  
Director of Public Works

Reviewed By: Date:

Robert J. Lamb, CECd, Ec.D.  
Chief Administrative Officer



## STAFF REPORT

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**Department/Function:** General Government and Finance

**Chair:** Councillor Paul Raymond

**Meeting Date:** January 24, 2019

**Report No.:** PW-2019-07

**Report Title:** Roads Long Term Plan Update

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### **RECOMMENDATION:**

That Staff Report No. PW-2019-07 regarding the update of the Long Term Plan for roads received;

And that the 2019 road program be approved [with the following amendments:];

And that the 2019 design for the 2020 and 2022 watermain/road project be approved.

### **INTRODUCTION/BACKGROUND:**

#### **Overview**

This report provides an update to the roads section of the Long Term Plan that was adopted by Council on September 26, 2018. The purpose of this is to provide some updated costing for certain road sections and comment on roads that are of particular interest for one reason or another. It is hoped that this will assist Council in defining a road program for inclusion in the 2019 budget. In addition, approval is requested for the watermain design to be completed in 2019.

## Attachments

The main attachment to this report is a spreadsheet that provides a ten year road program. This is organized by the order of the roads as presented in the Road Needs Study. To assist in locating road sections an alphabetical listing is also provided. In addition, budget sheets are provided for the highlighted roads organized by year of construction. Budget sheets for the road portion of costs for the watermain programs for 2020 & 2022 and 2023 & 2024.

## Background

C.C. Tatham and Associates Ltd. were retained by Tay Township to complete the 2017 Road Needs Study (RNS) for the Township's road network. The attached ten year plan includes the RNS recommendations as closely as possible regarding hard surface roads including asphalt and surface treated roads (RNS Appendix H). This program will be revised annually and presented as part of the Long Term Plan (LTP). In the future, costs for the immediate years will be evaluated on a case by case basis. At present, the RNS costs have generally been included, particularly for the longer term projects.

Roads in the Now category of the RNS include 2019 to the fourth road in 2023. From 2023 to half of the 2028 the roads are in the 1 to 5 Years category. The remainder of the 2028 roads are in the 6 to 10 Years category. There are additional roads in the 6 to 10 Years category that fall beyond 2028 in the RNS.

Roads highlighted in the LTP are provided with individual budget sheets. In addition, two budget sheets are provided for the upcoming watermain program. The following roads have been removed or amended as noted:

1. Bannister and Truax were included in the RNS for 2018. To provide room in the budget they have been moved to 2020.
2. Sections of Hogg Valley and Ron Jones (RNS for 2018) have short segments that are now in gravel. These sections have been deferred to 2019. It is noted that the RNS included Ron Jones from McMann to the south limit. That will remain as gravel and the LTP includes an amended distance (1000m rather than 1500m) and price from what the RNS had.
3. A large portion of Gratrix Road had been included in the RNS 2019 program as an asphalt reconstruction. Since it is actually a surface treated road and it is recommended as a rehabilitation project the cost is cut by about 50 percent.
4. The old sections of O'Leary were shown in 2022 and 2023 in the RNS. They both appear in 2022 in the LTP, the description and lengths have been corrected from 100m each but the costing has not been adjusted
5. In 2022 the RNS program had included Gerhardt (in gravel program and upgraded after data collection) and a section of Rosemount (will remain in gravel and is included in the gravel program). These are not included the hard surface LTP.

6. The gravel section of Forgets is included in 2022. It is intended that this be returned to surface treatment.
7. Sections of Alberta, Assiniboia and Simcoe appeared in the RNS in 2023, 2025 and 2027. Since these were resurfaced in 2017 and 2018 they have not been included in the LTP.
8. The two sections of Vents Beach Road had been shown in 2025 and 2028. They both appear in 2025 in the LTP.
9. There are many sections of road that have been adjusted from one year to another to coordinate with the proposed watermain replacement program.

### Scope of Work

The terms resurface, rehabilitate and reconstruct are used to indicate a range of project types:

- Resurface – very limited scope of replacing the driving surface only
- Rehabilitate – includes some drainage, base replacement, cross-fall, grade improvement, etc. in addition to providing a new surface
- Reconstruct – generally involves full base replacement and may include alignment changes or creation of wider road platform.

### Lifecycle Costs

Earlier staff reports and the Road Needs Study reviewed lifecycle cost for rural roads. The lifecycle cost for various road surfaces are, from least expensive to most expensive: surface treatment, asphalt and gravel. For all surface types base repairs are generally worthwhile to extend the life of road surface. This has both user and lifecycle cost benefits.

Generally, in urban settings with lots of turning movements and particularly if curbs are in place asphalt is the preferred surface material.

### **ANALYSIS:**

The program has been developed with consideration of the Road Needs Study, public input, project needs (reconstruct vs. rehabilitate, drainage, etc.), grouping of road sections for constructability/contract constraints; and, co-ordination with the need for watermain replacements. Several of these factors may need to be considered with any proposed changes to the program.

The projected program addresses approximately 8.8 km per year (5.3 percent) of hard surface roads. Based on 165 km of hard surface roads this equates to an 18.7 year cycle. This is in excess of long term needs and will allow for introduction of more preventative work which will improve ride and reduce life cycle costs. For example, some sections of asphalt roads that do not have potholes or ruts but the surface has excessive cracks (is alligatored) should be resurfaced now to protect the base.

**FINANCIAL/BUDGET IMPACT:**

The 2019 budget document included \$1,223,322 for this program. That has dictated the selection of roads as presented with a total of \$1,193,000.

**CONCLUSION:**

The roads portion of the Long Term Plan has been updated to provide Council with a recommended program for 2019.

Prepared By: Peter Dance, Director of Public Works

Recommended by:

Date: January 15, 2019

Peter Dance, P. Eng.  
Director of Public Works

Reviewed By;

Date: January 16, 2019

Robert J. Lamb, CEcD, Ec.D.  
Chief Administrative Officer

Name	#	From	To	Length (m)	Width (m)	Surface Type	Need	RNS Year	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Bannister Street	1	Vasey Road	South Limit	200	5.2	ST to Asphalt	Reconstruct	2018		\$67,000								
Ron Jones Road	2	Ebenezer Sideroad	400m South	400		ST to Asphalt	Rehabilitate	2018		\$67,000								
Traux Lane	3	Vasey Road	North Limit	200	5.2	ST to Asphalt	Reconstruct	2018		\$67,000								
Hogg Valley Road	4	Ron Jones Road	Old Fort Road	1500	6.6	Surface Treated	Resurface	2018	\$176,000									
Ron Jones Road	5	200m N of Hogg Valley Road	McMann	1250	6.6	Surface Treated	Resurface	2018	\$147,000									
Gratrix Road	6	500m N of Fesserton SR ROW	Vasey Road	3500	6.6	Surface Treated	Rehabilitate	2019	\$600,000									
Hogg Valley Road	7	Rumney Road	Old Fort Road	1300	6.7	Surface Treated	Resurface	2020		\$128,000								
First Avenue	8	Woodlands Avenue	Arpin Street	900	7	Asphalt	Reconstruct	2020		\$473,000								
Davidson Street	9	Fourth Avenue	Third Avenue	100	5.6	Asphalt	Resurface	2020		\$20,000								
Duck Bay Road	10	Meadows Avenue	North Limit	500	6.2	Surface Treated	Resurface	2020	\$59,000									
Wood Road	11	1350 m N of McMann SR	Ebenezer Sideroad	700	5.6	Surface Treated	Resurface	2020		\$62,000								
Hayes	12	Fourth	Fifth	100	6.5	Asphalt	Resurface W	N/A		\$69,500								
Fifth Avenue	13	Arpin Street	Hayes	500	5.5	Asphalt	Rehabilitate W	2020		\$347,500								
Triple Bay Road	14	North Limit	Comber Place	2000	6.5	Asphalt	Reconstruct	2021		\$670,000								
Hogg Valley Road	15	Gervais Road	Newton Street	1500	6.4	Surface Treated	Resurface	2020		\$146,000								
Ebenezer Side Road	16	Old Penetanguishene Road	Wood Road	2300	6.8	Surface Treated	Resurface	2020		\$234,000								
Osborne Street	17	94 Osborne Street	HCB/GS Transition	300	6.6	Asphalt	Adequate	2021				\$51,000						
Quarry Road	18	Duck Bay Road	East Limit	800	6.5	Asphalt	Reconstruct	2022			\$445,000							
O'Leary Lane	19	140m west of Vents Beach Road	Vents Beach Road	140	5.5	Asphalt	Rehabilitate	2022				\$8,000						
McDermitt Trail	20	Anderson Crescent	Anderson Crescent	500	6.8	Asphalt	Resurface	2022				\$84,000						
Ninth Avenue	21	Assiniboia Street	Talbot Street	300	6.5	Asphalt	Rehabilitate W	2022					\$208,500					
Lumber Road	22	Ellen Street	Victoria Street	400	6.2	Asphalt	Rehabilitate	2022				\$30,000						
Forgets Road	23	1400m E of Old Penetanguishene	300m W of Wood Road	600	5.2	Gravel to ST	Rehabilitate	2022				\$105,000						
Wood Road	24	Forgets	1050m South	1050	6.5	Gravel to ST	Resurface	N/A				\$117,000						
Rumney Road	25	Elliott Sideroad	1850m South	1850	6.6	Surface Treated	Rehabilitate	2022	\$270,000									
Rumney Road	26	Hogg Valley Road	850m North	850	6.6	Surface Treated	Rehabilitate	2022				\$125,000						
Seventh Avenue	27	Athabaska Street	Alberta Street	200	6.2	Asphalt	Rehabilitate W	2022						\$139,000				
West Service Road	28	Forest Harbour Parkway	Quarry Road	2600	6.6	Asphalt	Rehabilitate	2022				\$286,000						
Albert Street	29	Richard Street	George Street	500	6.4	Asphalt	Reconstruct	2023					\$251,000					
West Service Road	30	North Limit	Gerhardt Road	700	6.6	Asphalt	Rehabilitate	2023					\$73,000					
Elliott Side Road	31	Ron Jones Road	Old Fort Road	1500	6.4	Surface Treated	Rehabilitate	2023					\$131,000					
Duck Bay Road	32	Coldwater Road	Quarry Road	1100	7	Asphalt	Rehabilitate	2023					\$111,000					
Willow Street	33	Mountain Avenue	Coldwater Road	200	8	Asphalt	Resurface	2023					\$37,000					
Alberta Street	34	Fifth Avenue	Second Avenue	300	7	Asphalt	Resurface W	2023				\$208,500						
Alberta Street	35	Second Avenue	First Avenue	200	7	Asphalt	Resurface W	2023				\$139,000						
Elm Street	36	Mountain Avenue	Coldwater Road	200	6.6	Asphalt	Resurface	2023					\$30,000					
McMann Sideroad	37	Wood Road	Ron Jones Road	1000	6.4	Surface Treated	Resurface	2023					\$100,000					
Wardell Street	38	Fourth Avenue	First Avenue	400	6	Asphalt	Resurface	2023					\$50,000					
Elm Street	39	Pine Street	Mountain Avenue	400	6.3	Asphalt	Resurface	2023					\$52,000					
Ninth Avenue	40	North Limit	Assiniboia Street	200	6.5	Asphalt	Resurface W	2023					\$139,000					
O'Leary Lane	41	Vents Beach Road	East Limit	130	6.3	Asphalt	Resurface	2023				\$14,000						
Bell Street	42	First Avenue	West Limit	200	6.2	Asphalt	Resurface W	2023				\$139,000						
St. Mary's Crescent	43	Florence Street	West Limit	200	6.2	Asphalt	Resurface	2023					\$21,000					
Barnes Avenue	44	Athabaska Street	Alberta Street	200	6	Asphalt	Resurface W	2023						\$139,000				
Barnes Avenue	45	Alberta Street	Hayes Street	100	6	Asphalt	Resurface W	2023						\$69,500				
Mountain Avenue	46	Elm Street	Cherry Street	500	5.8	Asphalt	Resurface	2023					\$60,000					
Gouett Street	47	Forest Harbour Parkway	West Limit	300	5.6	Surface Treated	Resurface	2023					\$28,000					
Assiniboia Street	48	Ninth Avenue ROW	Seventh Avenue	300	6.4	Asphalt	Resurface	2023					\$43,000					
Florence Street	49	St. Mary Crescent	Jephson Street	100	6.2	Asphalt	Resurface	2023					\$15,000					

Name	#	From	To	Length (m)	Width (m)	Surface Type	Need	RNS Year	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Alhabaska Street	50	Seventh Avenue	Barnes	200	6.2	Asphalt	Resurface W	2023						\$139,000				
Bay Street	51	West Street	Albert Street	200	6	Asphalt	Resurface	2023					\$22,000					
Browns Line	52	North Limit	South Limit	300	5.3	Asphalt	Resurface	2023					\$30,000					
Fourth Avenue	53	Alberta Street	Hayes Street	100	6.2	Asphalt	Resurface	2023					\$16,000					
Franklin	54	Seventh	Barnes	200	7.5	Asphalt	Resurface W	N/A						\$139,000				
McPhee	55	Seventh	Barnes	200	7.5	Asphalt	Resurface W	N/A						\$139,000				
Percy Street	56	North Limit	Dodge Drive	300	5.8	Asphalt	Resurface	2024						\$34,000				
Barnes Avenue	57	Arpin Street	Alhabaska Street	200	6	Asphalt	Resurface W	2024						\$139,000				
Tanners Road	58	Lawson Lane	Highway 12	400	6.3	Surface Treated	Resurface	2024						\$39,000				
Sallows Drive	59	Lumsden Street	Bernard Avenue	400	6.3	Surface Treated	Resurface	2024						\$34,000				
Sallows Drive	60	Bernard Avenue	Caswell Drive	300	6.3	Surface Treated	Resurface	2024						\$25,000				
Elliott Side Road	61	Old Fort Road	Rumney Road	1400	6.6	Surface Treated	Resurface	2024						\$131,000				
Albert Street	62	John Dillingno Street	South Limit	200	6.6	Asphalt	Resurface	2024						\$30,000				
Ash Street	63	Hazel Street	West Limit	200	5.5	Asphalt	Resurface	2024						\$25,000				
Alcove Drive	64	Port Severn Road	Limit	500	6.8	Asphalt	Resurface	2024						\$77,000				
Sandhill Road	65	Old Coach Road	Vasey Road	500	6.5	Asphalt	Resurface	2024						\$75,000				
Rope Boulevard	66	West Service Road	Booth Road	300	6.4	Asphalt	Resurface	2024						\$44,000				
Rope Boulevard	67	Booth Road	Oak Road	500	6.4	Asphalt	Resurface	2024						\$64,000				
Seventh Avenue	68	Arpin Street	Alhabaska Street	200	6.2	Asphalt	Resurface W	2024						\$139,000				
Percy Street	69	Dodge Drive	Sturgeon Bay Road	300	5.8	Asphalt	Resurface	2024						\$34,000				
Neilson Road	70	Gervais Road	West Limit	400	6.4	Surface Treated	Resurface	2024						\$40,000				
Old Penetanguishene Rd	71	Ebenezer Sideroad	Highway 93	400	6.3	Surface Treated	Resurface	2024						\$41,000				
Ebenezer Side Road	72	Wood Road	Ron Jones Road	1000	6.7	Surface Treated	Resurface	2024						\$99,000				
Elliott Side Road	73	Wood Road	Ron Jones Road	1100	6.5	Surface Treated	Resurface	2025				\$67,000			\$90,000			
Forest Harbour Parkway	74	West 91 FHP	Duck Bay Road	900	6.2	Surface Treated	Resurface	2025						\$87,000				
Winfield Drive	75	William Street	North Limit	200	6.2	Asphalt	Resurface	2025						\$30,000				
Glacier Trail	76	Hilltop Crescent	North Limit	400	6.5	Asphalt	Resurface	2025						\$58,000				
Midland Avenue	77	North Limit	Talbot Street	100	6.4	Asphalt	Resurface	2025						\$15,000				
Forgets Road	78	300m W of Wood Road	Wood Road	300	6.4	Surface Treated	Rehabilitate	2025						\$37,000				
Forgets Road	79	Old Penetanguishene Road	1400m E of Old Penetar	1400	6.4	Surface Treated	Rehabilitate	2025						\$173,000				
Third Avenue	80	Assiniboia Street	Davidson Street	100	6.3	Asphalt	Resurface	2025						\$14,000				
Port Severn Road	81	West Service Road	West Limit	100	6.6	Asphalt	Resurface	2025							\$16,000			
Vents Beach Road	82	O'Leary Lane	Bourgeois Beach Road	100	6	Asphalt	Resurface	2025						\$19,000				
Coldwater Road	83	Balsam Avenue	Willow Street	300	6.4	Asphalt	Resurface	2025						\$36,000				
Palmer Street	84	Albin Street	Dodge Drive	300	5.5	Asphalt	Resurface	2025						\$39,000				
Hogg Valley Road	85	Reeves Road	Hill at 4763 Hogg Valley R	900	6.6	Surface Treated	Resurface	2025						\$86,000				
Bay Street	86	Albert Street	Park Street	500	6.4	Asphalt	Resurface	2025							\$80,000			
Second Avenue	87	Alberta Street	Wardell	200	6.3	Asphalt	Resurface W	2025				\$139,000						
Second Avenue	88	Wardell	Talbot Street	475	6.3	Asphalt	Resurface	2025							\$80,000			
Beckett's Sideroad	89	Rosemount Road	Gratrix Road	1200	6.3	Surface Treated	Resurface	2025						\$116,000				
Bergie Crescent	90	Lighthouse Road	Juneau Road	300	5.8	Asphalt	Resurface	2025						\$39,000				
John Dillingno Street	91	Trillium Street	Park Street	400	6.6	Asphalt	Resurface	2025						\$60,000				
Osborne Street	92	HCB/GS Transition	Robins Point Road	700	7	Surface Treated	Resurface	2025						\$114,000				
Armstrong Street	93	Fifth Avenue	Third Avenue	200	6.6	Asphalt	Resurface	2025						\$32,000				
Newton Street	94	Hogg Valley Road	CPR Abandoned	2300	6.5	Surface Treated	Resurface	2026								\$230,000		
Albin Road	95	GS/HCB Transition	Pine Street	600	5.8	Asphalt	Resurface	2025							\$78,000			
Albin Road	96	West Limit	GS/HCB Transition	800	5.8	Surface Treated	Resurface	2025							\$80,000			
Ouda's Street	97	Dodge Drive	Sturgeon Bay Road	300	5.6	Asphalt	Resurface	2026								\$33,000		
Coldwater Road	98	Willow Street	Duck Bay Road	200	6.4	Asphalt	Resurface	2026								\$29,000		
George Street	99	West Street	Park Street	700	6.4	Asphalt	Resurface	2026								\$103,000		

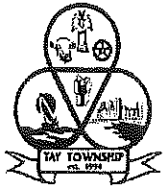
Name	#	From	To	Length (m)	Width (m)	Surface Type	Need	RNS Year	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Quida Street	100	Albin Road	Dodge Drive	300	5.6	Asphalt	Resurface	2026								\$39,000		
Newton Street	101	Granny White Sideroad	Highway 12	1500	7.4	Surface Treated	Resurface	2026								\$248,000		
Bayway Road	102	Duck Bay Road	West Limit	500	6.2	Surface Treated	Resurface	2026								\$69,000		
Gratrix Road	103	Highway 12	Old Coach Road	1000	7	Asphalt	Resurface	2026								\$166,000		
West Service Road	104	Gerhardt Road	Forest Harbour Parkway	700	6.6	Asphalt	Resurface	2026								\$110,000		
West Street	105	George Street	South Limit	400	6.4	Asphalt	Resurface	2026								\$57,000		
King Road	106	Albin Street	Limit	700	5.4	Asphalt	Resurface	2026								\$87,000		
Maskinonge Road	107	Caswell Road	South Limit	700	6.2	Surface Treated	Resurface	2026								\$97,000		
Ogdens Beach Road	108	North Limit	Bayview Avenue	300	6.5	Asphalt	Resurface	2026								\$38,000		
Newton Street	109	CPR Abandoned	Granny White Sideroad	900	6.4	Surface Treated	Resurface	2026								\$85,000		
Juneau Road	110	Hoyle Avenue	Lighthouse Crescent	500	6.4	Asphalt	Resurface	2027									\$64,000	
Triple Bay Road	111	Comber Place	Talbot Street	700	6.5	Asphalt	Rehabilitate	2027								\$175,000		
Veterans Lane	112	Albert Street	William Street	200	6.4	Asphalt	Resurface	2027								\$30,000		
Caswell Road	113	Highway 12	Maskinonge Street	400	6.4	Surface Treated	Resurface	2027								\$60,000		
John Dillingno Street	114	West Street	Trillium Street	300	6.6	Asphalt	Resurface	2027								\$45,000		
Runney Road	115	Elliott Sideroad	Highway 12	1400	6.1	Asphalt	Resurface	2027								\$205,000		
Reeves Road	116	Granny White Sideroad	CPR Abandoned	300	6.1	Asphalt	Resurface	2027								\$35,000		
Ney Avenue	117	Talbot Street	Nottingham Street	400	6.5	Asphalt	Resurface	2027								\$55,000		
Sturgeon Bay Road	118	Highway 12	Quida Street	400	6.5	Asphalt	Resurface	2027								\$56,000		
Anderson Crescent	119	Park Street	McDermitt Trail	700	6.2	Asphalt	Resurface	2027								\$97,000		
Coldwater Road	120	Duck Bay Road	Pine Street	700	6.6	Asphalt	Resurface	2027								\$106,000		
Sturgeon Bay Road	121	Quida Street	Pine Street	300	6.5	Asphalt	Resurface	2027								\$40,000		
Park Street	122	Anderson Court	Richard Street	300	7	Asphalt	Resurface	2027								\$54,000		
Park Street	123	Richard Street	Industrial Road	300	6.8	Asphalt	Resurface	2027								\$50,000		
Park Street	124	Industrial Road	John Dillingno Street	300	6.8	Asphalt	Resurface	2027								\$46,000		
Park Street	125	John Dillingno Street	Todd Lane	400	6.8	Asphalt	Resurface	2027								\$66,000		
Park Street	126	Todd Lane	Highway 12	300	6.8	Asphalt	Resurface	2027								\$42,000		
Mountain Avenue	127	Hazel Street	Elm Street	200	5.8	Asphalt	Resurface	2027								\$20,000		
Eighth Avenue	128	Margaret Street	Camillia Street	100	6.5	Asphalt	Resurface	2027								\$16,000		
Assinibola Street	129	Seventh Avenue	Fourth Avenue	300	6.8	Asphalt	Resurface	2027								\$47,000		
Cherry Street	130	Elm Street	Mountain Avenue	200	5.6	Asphalt	Resurface	2027								\$22,000		
Alberta Street	131	Seventh Ave.	Barnes Avenue	200	6.5	Asphalt	Resurface	2027								\$23,000		
Elizabeth Street	132	Queen Street	South Limit	100	6.2	Asphalt	Resurface	2027								\$14,000		
Dodge Drive	133	Browns Line	Quida Street	300	5.6	Asphalt	Resurface	2027								\$33,000		
Camilla Street	134	Eighth Avenue	Maraget Street	200	6.1	Asphalt	Resurface	2027								\$30,000		
Amanda Street	135	Quida Street	Pine Street	200	5.5	Asphalt	Resurface	2027								\$30,000		
Thirld Avenue	136	Wardell Street	Assinibola Street	200	5.6	Asphalt	Resurface	2028									\$26,000	
Jephson Street	137	West Limit	Alberta Street	200	6.4	Asphalt	Resurface	2028									\$32,000	
Davis Drive	138	Park Street	Bayside Avenue	500	6.2	Asphalt	Resurface	2028								\$48,000		
Palmer Street	139	Dodge Drive	Sturgeon Bay Road	300	5.6	Asphalt	Resurface	2028									\$33,000	
Hearthstone Drive	140	Duffy Drive	West Limit	200	5.7	Asphalt	Resurface	2028									\$26,000	
Newton street	141	Vasey Road	Hogg Valley Road	3100	6.5	Surface Treated	Resurface	2028								\$310,000		
Hogg Valley Road	142	Newton Street	Reeves Road	1300	6.6	Surface Treated	Resurface	2028								\$128,000		
Newton Street	143	Highway 12	William Street	600	6.7	Asphalt	Resurface	2028								\$84,000		
Gratrix Road	144	Old Coach Road	500m N of Fesserton Sideroad	800	7	Asphalt	Resurface	2028								\$125,000		
Gravels Road	145	Hogg Valley Road	Vasey Road	3000	7.2	Surface Treated	Resurface	2028								\$317,000		
Bourgeois Beach Road	146	100 m West of Vents Beach Road	Vents Beach Road	100	6.5	Surface Treated	Resurface	2028									\$11,000	
Duffy Drive	147	Hearthstone Drive	Highway 12	100	6	Asphalt	Resurface	2028								\$14,000		
Industrial Avenue	148	Park Street	East Limit	400	7	Asphalt	Resurface	2028									\$55,000	
Mitchell's Beach Road	149	South Limit	Reeves Road	800	7	Surface Treated	Resurface	2028									\$116,000	
Vents Beach Road	150	Bourgeois Beach Road	Highway 12	200	7	Asphalt	Resurface	2028							\$27,000			
Armstrong Street	151	Midland Avenue	Fifth Avenue	300	6.6	Asphalt	Resurface	2028									\$45,000	
Martha Street	152	William Street	Jephson Street	200	8.3	Asphalt	Resurface	2028								\$39,000		
Total Expenditure				88045					\$1,193,000	\$1,360,000	\$1,495,000	\$1,512,500	\$1,417,500	\$1,834,500	\$1,406,000	\$1,391,000	\$1,460,000	\$1,409,000



Name	#	From	To	Length (m)	Width (m)	Surface Type	Need	RNS Year
Albert Street	29	Richard Street	George Street	500	6.4	Asphalt	Reconstruct	2023
Albert Street	62	John Dillingno Street	South Limit	200	6.6	Asphalt	Resurface	2024
Alberta Street	34	Fifth Avenue	Second Avenue	300	7	Asphalt	Resurface W	2023
Alberta Street	35	Second Avenue	First Avenue	200	7	Asphalt	Resurface W	2023
Alberta Street	131	Seventh Ave.	Barnes Avenue	200	6.5	Asphalt	Resurface	2027
Albin Road	95	GS/HCB Transition	Pine Street	600	5.8	Asphalt	Resurface	2025
Albin Road	96	West Limit	GS/HCB Transition	800	5.8	Surface Treated	Resurface	2025
Alcove Drive	64	Port Severn Road	Limit	500	6.8	Asphalt	Resurface	2024
Amanda Street	135	Ouida Street	Pine Street	200	5.5	Asphalt	Resurface	2027
Anderson Crescent	119	Park Street	McDermitt Trail	700	6.2	Asphalt	Resurface	2027
Armstrong Street	93	Fifth Avenue	Third Avenue	200	6.6	Asphalt	Resurface	2025
Armstrong Street	151	Midland Avenue	Fifth Avenue	300	6.6	Asphalt	Resurface	2028
Ash Street	63	Hazel Street	West Limit	200	5.5	Asphalt	Resurface	2024
Assinibola Street	48	Ninth Avenue ROW	Seventh Avenue	300	6.4	Asphalt	Resurface	2023
Assinibola Street	129	Seventh Avenue	Fourth Avenue	300	6.8	Asphalt	Resurface	2027
Athabaska Street	50	Seventh Avenue	Barnes	200	6.2	Asphalt	Resurface W	2023
<b>Bannister Street</b>	<b>1</b>	<b>Vasey Road</b>	<b>South Limit</b>	<b>200</b>	<b>5.2</b>	<b>ST to Asphalt</b>	<b>Reconstruct</b>	<b>2018</b>
Barnes Avenue	44	Athabaska Street	Alberta Street	200	6	Asphalt	Resurface W	2023
Barnes Avenue	45	Alberta Street	Hayes Street	100	6	Asphalt	Resurface W	2023
Barnes Avenue	57	Arpin Street	Athabaska Street	200	6	Asphalt	Resurface W	2024
Bay Street	51	West Street	Albert Street	200	6	Asphalt	Resurface	2023
Bay Street	86	Albert Street	Park Street	500	6.4	Asphalt	Resurface	2025
Bayway Road	102	Duck Bay Road	West Limit	500	6.2	Surface Treated	Resurface	2026
Beckett's Sideroad	89	Rosemount Road	Gratrix Road	1200	6.3	Surface Treated	Resurface	2025
Bell Street	42	First Avenue	West Limit	200	6.2	Asphalt	Resurface W	2023
Bergie Crescent	90	Lighthouse Road	Juneau Road	300	5.8	Asphalt	Resurface	2025
Bourgeois Beach Road	146	100 m West of Vents Beach Road	Vents Beach Road	100	6.5	Surface Treated	Resurface	2028
Browns Line	52	North Limit	South Limit	300	5.3	Asphalt	Resurface	2023
Camilla Street	134	Eighth Avenue	Maraget Street	200	6.1	Asphalt	Resurface	2027
Caswell Road	113	Highway 12	Maskinonge Street	400	6.4	Surface Treated	Resurface	2027
Cherry Street	130	Elm Street	Mountain Avenue	200	5.6	Asphalt	Resurface	2027
Coldwater Road	83	Balsam Avenue	Willow Street	300	6.4	Asphalt	Resurface	2025
Coldwater Road	98	Willow Street	Duck Bay Road	200	6.4	Asphalt	Resurface	2026
Coldwater Road	120	Duck Bay Road	Pine Street	700	6.6	Asphalt	Resurface	2027
Davidson Street	9	Fourth Avenue	Third Avenue	100	5.6	Asphalt	Resurface	2020
Davis Drive	138	Park Street	Bayside Avenue	500	6.2	Asphalt	Resurface	2028
Dodge Drive	133	Browns Line	Ouida Street	300	5.6	Asphalt	Resurface	2027
<b>Duck Bay Road</b>	<b>10</b>	<b>Meadows Avenue</b>	<b>North Limit</b>	<b>500</b>	<b>6.2</b>	<b>Surface Treated</b>	<b>Resurface</b>	<b>2020</b>
Duck Bay Road	32	Coldwater Road	Quarry Road	1100	7	Asphalt	Rehabilitate	2023
Duffy Drive	147	Hearthstone Drive	Highway 12	100	6	Asphalt	Resurface	2028
Ebenezer Side Road	16	Old Penetanguishene Road	Wood Road	2300	6.8	Surface Treated	Resurface	2020
Ebenezer Side Road	72	Wood Road	Ron Jones Road	1000	6.7	Surface Treated	Resurface	2024
Eighth Avenue	128	Margaret Street	Camilla Street	100	6.5	Asphalt	Resurface	2027
Elizabeth Street	132	Queen Street	South Limit	100	6.2	Asphalt	Resurface	2027
Elliott Side Road	31	Ron Jones Road	Old Fort Road	1500	6.4	Surface Treated	Rehabilitate	2023
Elliott Side Road	61	Old Fort Road	Rumney Road	1400	6.6	Surface Treated	Resurface	2024
<b>Elliott Side Road</b>	<b>73</b>	<b>Wood Road</b>	<b>Ron Jones Road</b>	<b>1100</b>	<b>6.5</b>	<b>Surface Treated</b>	<b>Resurface</b>	<b>2025</b>
Elm Street	36	Mountain Avenue	Coldwater Road	200	6.6	Asphalt	Resurface	2023
Elm Street	39	Pine Street	Mountain Avenue	400	6.3	Asphalt	Resurface	2023

Name	#	From	To	Length (m)	Width (m)	Surface Type	Need	RNS Year
Fifth Avenue	13	Arpin Street	Hayes	500	5.5	Asphalt	Rehabilitate W	2020
First Avenue	8	Woodlands Avenue	Arpin Street	900	7	Asphalt	Reconstruct	2020
Florence Street	49	St. Mary Crescent	Jephson Street	100	6.2	Asphalt	Resurface	2023
Forest Harbour Parkway	74	West 91 FHP	Duck Bay Road	900	6.2	Surface Treated	Resurface	2025
Forgets Road	23	1400m E of Old Penetanguishene Road	300m W of Wood Road	600	5.2	Gravel to ST	Rehabilitate	2022
Forgets Road	78	300m W of Wood Road	Wood Road	300	6.4	Surface Treated	Rehabilitate	2025
Forgets Road	79	Old Penetanguishene Road	1400m E of Old Penetan	1400	6.4	Surface Treated	Rehabilitate	2025
Fourth Avenue	53	Alberta Street	Hayes Street	100	6.2	Asphalt	Resurface	2023
Franklin	54	Seventh	Barnes	200	7.5	Asphalt	Resurface W	N/A
George Street	99	West Street	Park Street	700	6.4	Asphalt	Resurface	2026
Gervais Road	145	Hogg Valley Road	Vasey Road	3000	7.2	Surface Treated	Resurface	2028
Glacier Trail	76	Hilltop Crescent	North Limit	400	6.5	Asphalt	Resurface	2025
Gouett Street	47	Forest Harbour Parkway	West Limit	300	5.6	Surface Treated	Resurface	2023
Gratrix Road	6	500m N of Fesserton SR ROW	Vasey Road	3500	6.6	Surface Treated	Rehabilitate	2019
Gratrix Road	103	Highway 12	Old Coach Road	1000	7	Asphalt	Resurface	2026
Gratrix Road	144	Old Coach Road	500m N of Fesserton Sider	800	7	Asphalt	Resurface	2028
Hayes	12	Fourth	Fifth	100	6.5	Asphalt	Resurface W	N/A
Hearthstone Drive	140	Duffy Drive	West Limit	200	5.7	Asphalt	Resurface	2028
Hogg Valley Road	4	Ron Jones Road	Old Fort Road	1500	6.6	Surface Treated	Resurface	2018
Hogg Valley Road	7	Rumney Road	Old Fort Road	1300	6.7	Surface Treated	Resurface	2020
Hogg Valley Road	15	Gervais Road	Newton Street	1500	6.4	Surface Treated	Resurface	2020
Hogg Valley Road	85	Reeves Road	Hill at 4763 Hogg Valley Rd	900	6.6	Surface Treated	Resurface	2025
Hogg Valley Road	142	Newton Street	Reeves Road	1300	6.6	Surface Treated	Resurface	2028
Industrial Avenue	148	Park Street	East Limit	400	7	Asphalt	Resurface	2028
Jephson Street	137	West Limit	Alberta Street	200	6.4	Asphalt	Resurface	2028
John Dillingno Street	91	Trillium Street	Park Street	400	6.6	Asphalt	Resurface	2025
John Dillingno Street	114	West Street	Trillium Street	300	6.6	Asphalt	Resurface	2027
Juneau Road	110	Hoyt Avenue	Lighthouse Crescent	500	6.4	Asphalt	Resurface	2027
King Road	106	Albin Street	Limit	700	5.4	Asphalt	Resurface	2026
Lumber Road	22	Ellen Street	Victoria Street	400	6.2	Asphalt	Rehabilitate	2022
Martha Street	152	William Street	Jephson Street	200	8.3	Asphalt	Resurface	2028
Maskinonge Road	107	Caswell Road	South Limit	700	6.2	Surface Treated	Resurface	2026
McDermitt Trail	20	Anderson Crescent	Anderson Crescent	500	6.8	Asphalt	Resurface	2022
McMann Sideroad	37	Wood Road	Ron Jones Road	1000	6.4	Surface Treated	Resurface	2023
McPhee	55	Seventh	Barnes	200	7.5	Asphalt	Resurface W	N/A
Midland Avenue	77	North Limit	Talbot Street	100	6.4	Asphalt	Resurface	2025
Mitchell's Beach Road	149	South Limit	Reeves Road	800	7	Surface Treated	Resurface	2028
Mountain Avenue	46	Elm Street	Cherry Street	500	5.8	Asphalt	Resurface	2023
Mountain Avenue	127	Hazel Street	Elm Street	200	5.8	Asphalt	Resurface	2027
Neillson Road	70	Gervais Road	West Limit	400	6.4	Surface Treated	Resurface	2024
Newton Street	94	Hogg Valley Road	CPR Abandoned	2300	6.5	Surface Treated	Resurface	2026
Newton Street	101	Granny White Sideroad	Highway 12	1500	7.4	Surface Treated	Resurface	2026
Newton Street	109	CPR Abandoned	Granny White Sideroad	900	6.4	Surface Treated	Resurface	2026
Newton street	141	Vasey Road	Hogg Valley Road	3100	6.5	Surface Treated	Resurface	2028
Newton Street	143	Highway 12	William Street	600	6.7	Asphalt	Resurface	2028
Ney Avenue	117	Talbot Street	Nottingham Street	400	6.5	Asphalt	Resurface	2027
Ninth Avenue	21	Assiniboia Street	Talbot Street	300	6.5	Asphalt	Rehabilitate W	2022
Ninth Avenue	40	North Limit	Assiniboia Street	200	6.5	Asphalt	Resurface W	2023
Ogdens Beach Road	108	North Limit	Bayview Avenue	300	6.5	Asphalt	Resurface	2026
Old Penetanguishene Road	71	Ebenezer Sideroad	Highway 93	400	6.3	Surface Treated	Resurface	2024

Name	#	From	To	Length (m)	Width (m)	Surface Type	Need	RNS Year
O'Leary Lane	19	140m west of Vents Beach Road	Vents Beach Road	140	5.5	Asphalt	Rehabilitate	2022
O'Leary Lane	41	Vents Beach Road	East Limit	130	6.3	Asphalt	Resurface	2023
Osborne Street	17	94 Osborne Street	HCB/GS Transition	300	6.6	Asphalt	Adequate	2021
Osborne Street	92	HCB/GS Transition	Robins Point Road	700	7	Surface Treated	Resurface	2025
Ouida Street	97	Dodge Drive	Sturgeon Bay Road	300	5.6	Asphalt	Resurface	2026
Ouida Street	100	Albin Road	Dodge Drive	300	5.6	Asphalt	Resurface	2026
Palmer Street	84	Albin Street	Dodge Drive	300	5.5	Asphalt	Resurface	2025
Palmer Street	139	Dodge Drive	Sturgeon Bay Road	300	5.6	Asphalt	Resurface	2028
Park Street	122	Anderson Court	Richard Street	300	7	Asphalt	Resurface	2027
Park Street	123	Richard Street	Industrial Road	300	6.8	Asphalt	Resurface	2027
Park Street	124	Industrial Road	John Dillingno Street	300	6.8	Asphalt	Resurface	2027
Park Street	125	John Dillingno Street	Todd Lane	400	6.8	Asphalt	Resurface	2027
Park Street	126	Todd Lane	Highway 12	300	6.8	Asphalt	Resurface	2027
Percy Street	56	North Limit	Dodge Drive	300	5.8	Asphalt	Resurface	2024
Percy Street	69	Dodge Drive	Sturgeon Bay Road	300	5.8	Asphalt	Resurface	2024
Port Severn Road	81	West Service Road	West Limit	100	6.6	Asphalt	Resurface	2025
Quarry Road	18	Duck Bay Road	East Limit	800	6.5	Asphalt	Reconstruct	2022
Reeves Road	116	Granny White Sideroad	CPR Abandoned	300	6.1	Asphalt	Resurface	2027
Ron Jones Road	2	Ebenezer Sideroad	400m South	400	ST to Asphalt		Rehabilitate	2018
Ron Jones Road	5	200m N of Hogg Valley Road	McMann	1250	6.6	Surface Treated	Resurface	2018
Rope Boulevard	66	West Service Road	Booth Road	300	6.4	Asphalt	Resurface	2024
Rope Boulevard	67	Booth Road	Oak Road	500	6.4	Asphalt	Resurface	2024
Rumney Road	25	Elliott Sideroad	1850m South	1850	6.6	Surface Treated	Rehabilitate	2022
Rumney Road	26	Hogg Valley Road	850m North	850	6.6	Surface Treated	Rehabilitate	2022
Rumney Road	115	Elliott Sideroad	Highway 12	1400	6.1	Asphalt	Resurface	2027
Sallows Drive	59	Lumsden Street	Bernard Avenue	400	6.3	Surface Treated	Resurface	2024
Sallows Drive	60	Bernard Avenue	Caswell Drive	300	6.3	Surface Treated	Resurface	2024
Sandhill Road	65	Old Coach Road	Vasey Road	500	6.5	Asphalt	Resurface	2024
Second Avenue	87	Alberta Street	Wardell	200	6.3	Asphalt	Resurface W	2025
Second Avenue	88	Wardell	Talbot Street	475	6.3	Asphalt	Resurface	2025
Seventh Avenue	27	Athabaska Street	Alberta Street	200	6.2	Asphalt	Rehabilitate W	2022
Seventh Avenue	68	Arpin Street	Athabaska Street	200	6.2	Asphalt	Resurface W	2024
St. Mary's Crescent	43	Florence Street	West Limit	200	6.2	Asphalt	Resurface	2023
Sturgeon Bay Road	118	Highway 12	Ouida Street	400	6.5	Asphalt	Resurface	2027
Sturgeon Bay Road	121	Ouida Street	Pine Street	300	6.5	Asphalt	Resurface	2027
Tanners Road	58	Lawson Lane	Highway 12	400	6.3	Surface Treated	Resurface	2024
Third Avenue	80	Assiniboia Street	Davidson Street	100	6.3	Asphalt	Resurface	2025
Third Avenue	136	Wardell Street	Assiniboia Street	200	5.6	Asphalt	Resurface	2028
Traux Lane	3	Vasey Road	North Limit	200	5.2	ST to Asphalt	Reconstruct	2018
Triple Bay Road	14	North Limit	Comber Place	2000	6.5	Asphalt	Reconstruct	2021
Triple Bay Road	111	Comber Place	Talbot Street	700	6.5	Asphalt	Rehabilitate	2027
Vents Beach Road	82	O'Leary Lane	Bourgeois Beach Road	100	6	Asphalt	Resurface	2025
Vents Beach Road	150	Bourgeois Beach Road	Highway 12	200	7	Asphalt	Resurface	2028
Veterans Lane	112	Albert Street	William Street	200	6.4	Asphalt	Resurface	2027
Wardell Street	38	Fourth Avenue	First Avenue	400	6	Asphalt	Resurface	2023
West Service Road	28	Forest Harbour Parkway	Quarry Road	2600	6.6	Asphalt	Rehabilitate	2022
West Service Road	30	North Limit	Gerhardt Road	700	6.6	Asphalt	Rehabilitate	2023
West Service Road	104	Gerhardt Road	Forest Harbour Parkway	700	6.6	Asphalt	Resurface	2026
West Street	105	George Street	South Limit	400	6.4	Asphalt	Resurface	2026
Willow Street	33	Mountain Avenue	Coldwater Road	200	8	Asphalt	Resurface	2023
Winfield Drive	75	William Street	North Limit	200	6.2	Asphalt	Resurface	2025
Wood Road	11	1350 m N of McMann SR	Ebenezer Sideroad	700	5.6	Surface Treated	Resurface	2020
Wood Road	24	Forgets	1050m South	1050	6.5	Gravel to ST	Resurface	N/A
Total Expenditure				88045				



# Tay Township

## 2019 Budget Request

Hogg Valley - Ron Jones to Old Fort																				
Budget Type	Capital																			
Department	Public Works																			
Division	Roads																			
Prepared by	Peter Dance																			
Approved by	Peter Dance																			
Department Priority	A																			
Request Summary	The RNS included this section for 2018.																			
Service Level/ Impact	Maintain																			
Expected Useful Life																				
Current Year Budget	<table border="0"> <thead> <tr> <th>Expenses</th> <th>Revenue</th> </tr> </thead> <tbody> <tr> <td>Materials</td> <td>Grants</td> </tr> <tr> <td>Consultants</td> <td>Reserve</td> </tr> <tr> <td>Equipment</td> <td>Development</td> </tr> <tr> <td>Legal</td> <td>Utility</td> </tr> <tr> <td>Other</td> <td>Other</td> </tr> <tr> <td>Total</td> <td>Total</td> </tr> <tr> <td>176,000</td> <td>0</td> </tr> <tr> <td>176,000</td> <td></td> </tr> </tbody> </table>		Expenses	Revenue	Materials	Grants	Consultants	Reserve	Equipment	Development	Legal	Utility	Other	Other	Total	Total	176,000	0	176,000	
Expenses	Revenue																			
Materials	Grants																			
Consultants	Reserve																			
Equipment	Development																			
Legal	Utility																			
Other	Other																			
Total	Total																			
176,000	0																			
176,000																				
	Tax Levy / Rate Impact	\$176,000																		
Future Year Budget																				
Cost-Benefit Analysis and Other Financial Considerations																				
Administrative Recommendation																				



# Tay Township

## 2019 Budget Request

Ron Jones Road - 200m N of Hogg Valley to McMann		
Budget Type	Capital	
Department	Public Works	
Division	Roads	
Prepared by	Peter Dance	
Approved by	Peter Dance	
Department Priority	A	
Request Summary	The RNS had included this section as a 2018 project.	
Service Level Impact	Maintain	
Expected Useful Life		
Current Year Budget	<b>Expenses</b> Materials Consultants Equipment Legal Other 147,000 Total 147,000	<b>Revenue</b> Grants Reserve Development Utility Other Total 0
	Tax Levy / Rate Impact \$147,000	
Future Year Budget		
Cost-Benefit Analysis and Other Financial Considerations		
Administrative Recommendation		



# Tay Township

## 2019 Budget Request

### Gratrix - Vasey to 0.5km N of the Fesserton SR ROW

Budget Type	Capital																
Department	Public Works																
Division	Roads																
Prepared by	Peter Dance																
Approved by	Peter Dance																
Department Priority	A																
Request Summary	<p>The RNS had omitted 500m of Gratrix that is surface treatment. The LTP has added this to the other surface treatment section and amended the limits description and the distance (now 3500m). The asphalt description from the RNS is incorrect. The RNS recommendation of Asphalt Reconstruction of 3000m had a cost of \$1,849,000. Asphalt reconstruction would be appropriate if this road section is to service the pits without load restriction. However if the pit traffic is to go to Highway 12, full reconstruction is not needed. In addition, surface treatment would be a suitable surface. The RNS notes that a gravel surface would be tolerable. Some parts could be resurfaced while others would need rehabilitation (to include spot base repair and drainage). The noted costing is for a rehabilitation project with surface treatment. If asphalt is used instead of surface treatment the budget should be increased by \$70,000 (the load restriction would not be lifted).</p>																
Service Level Impact	Maintain																
Expected Useful Life																	
Current Year Budget	<table> <tr> <th>Expenses</th><th>Revenue</th></tr> <tr> <td>Materials</td><td>Grants</td></tr> <tr> <td>Consultants</td><td>Reserve</td></tr> <tr> <td>Equipment</td><td>Development</td></tr> <tr> <td>Legal</td><td>Utility</td></tr> <tr> <td>Other</td><td>Other</td></tr> <tr> <td>Total</td><td>Total</td></tr> <tr> <td></td><td>0</td></tr> </table>	Expenses	Revenue	Materials	Grants	Consultants	Reserve	Equipment	Development	Legal	Utility	Other	Other	Total	Total		0
Expenses	Revenue																
Materials	Grants																
Consultants	Reserve																
Equipment	Development																
Legal	Utility																
Other	Other																
Total	Total																
	0																
	<table> <tr> <td>Tax Levy / Rate Impact</td><td>\$600,000</td></tr> </table>	Tax Levy / Rate Impact	\$600,000														
Tax Levy / Rate Impact	\$600,000																
Future Year Budget																	
Cost-Benefit Analysis and Other Financial Considerations																	
<b>Administrative Recommendation</b> <p>At the September 26, 2018 Council meeting, Council accepted the 2019-2028 Long Term Plan, as amended. Amendments to the Plan included reducing the scope of work required on Gratrix Road from a reconstruct to a rehabilitate. The resulting 2019 &amp; 2020 remaining budget funds (TBD) is included as "Unallocated" in the amended Long Term Plan. The balance of 2019 Road Program is TBD.</p>																	



# Tay Township

## 2019 and 2022 Budget Request

### Rumney Road - Hogg Valley to Elliott

Budget Type	Capital																
Department	Public Works																
Division	Roads																
Prepared by	Peter Dance																
Approved by	Peter Dance																
Department Priority	A																
Request Summary	This section is in the RNS as a 2022 project as a resurface project for the existing surface treatment. It is noted that the hill is currently paved with asphalt. The proposed work does not include the hill. The section from Elliott to the hill is in worse condition and road section was the subject of a presentation to Council.																
	1850 m Elliott to Hill \$270,000; 400 m paved hill; 850 m Hogg Valley to Hill \$125,000																
Service Level Impact	Maintain																
Expected Useful Life																	
Current Year Budget	<table> <tr> <th>Expenses</th><th>Revenue</th></tr> <tr> <td>Materials</td><td>Grants</td></tr> <tr> <td>Consultants</td><td>Reserve</td></tr> <tr> <td>Equipment</td><td>Development</td></tr> <tr> <td>Legal</td><td>Utility</td></tr> <tr> <td>Other</td><td>Other</td></tr> <tr> <td>Total</td><td>Total</td></tr> <tr> <td></td><td>0</td></tr> </table>	Expenses	Revenue	Materials	Grants	Consultants	Reserve	Equipment	Development	Legal	Utility	Other	Other	Total	Total		0
Expenses	Revenue																
Materials	Grants																
Consultants	Reserve																
Equipment	Development																
Legal	Utility																
Other	Other																
Total	Total																
	0																
	Tax Levy / Rate Impact \$270,000																
Future Year Budget	2022 - \$125,000																
Cost-Benefit Analysis and Other Financial Considerations																	
Administrative Recommendation																	



# Tay Township

## 2020 Budget Request

Bannister - Vasey to South Limit																														
Budget Type	Capital																													
Department	Public Works																													
Division	Roads																													
Prepared by	Peter Dance																													
Approved by	Peter Dance																													
Department Priority	A																													
Request Summary	<p>The RNS included this as a 'reconstruct, now' road in the 2018 group. Rehabilitation rather than full reconstruction may be appropriate pending base investigation. Due to proximity, this project should be completed at the same time as Truax. The high frequency of turning movements on Truax indicate that an asphalt surface is preferred.</p>																													
Service Level Impact	Maintain																													
Expected Useful Life																														
Current Year Budget	<table border="1"> <thead> <tr> <th colspan="2">Expenses</th> <th colspan="2">Revenue</th> </tr> </thead> <tbody> <tr> <td>Materials</td> <td></td> <td>Grants</td> <td></td> </tr> <tr> <td>Consultants</td> <td></td> <td>Reserve</td> <td></td> </tr> <tr> <td>Equipment</td> <td></td> <td>Development</td> <td></td> </tr> <tr> <td>Legal</td> <td></td> <td>Utility</td> <td></td> </tr> <tr> <td>Other</td> <td>67,000</td> <td>Other</td> <td></td> </tr> <tr> <td>Total</td> <td>67,000</td> <td>Total</td> <td>0</td> </tr> </tbody> </table>		Expenses		Revenue		Materials		Grants		Consultants		Reserve		Equipment		Development		Legal		Utility		Other	67,000	Other		Total	67,000	Total	0
Expenses		Revenue																												
Materials		Grants																												
Consultants		Reserve																												
Equipment		Development																												
Legal		Utility																												
Other	67,000	Other																												
Total	67,000	Total	0																											
	Tax Levy / Rate Impact \$67,000																													
Future Year Budget																														
Cost-Benefit Analysis and Other Financial Considerations																														
Administrative Recommendation																														



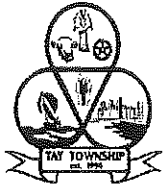


# Tay Township

## 2020 Budget Request

### Ron Jones Road - Ebenezer to 400 m South

Budget Type	Capital														
Department	Public Works														
Division	Roads														
Prepared by	Peter Dance														
Approved by	Peter Dance														
Department Priority	A														
Request Summary	The RNS had included the full 1000m length of this section from Ebenezer to Hogg Valley as surface treatment, to be resurfaced at a cost of \$99,000 in 2018. From north to south it is surface treatment hill (400m), asphalt hill (400m) and surface treatment (200m). The asphalt section appears to be in good condition. The two surface treatment sections require work. We had tendered the northern 400m section with an earlier asphalt tender but did not have the funds to complete the work. It is recommended that this section be upgraded to asphalt. The work will include gutter swales and spillways, some drainage work. The remaining 200m surface treatment section will be included with the surface treatment section from Hogg Valley to McMann.														
Service Level Impact	Maintain														
Expected Useful Life															
Current Year Budget	<table> <tr> <th>Expenses</th><th>Revenue</th></tr> <tr> <td>Materials</td><td>Grants</td></tr> <tr> <td>Consultants</td><td>Reserve</td></tr> <tr> <td>Equipment</td><td>Development</td></tr> <tr> <td>Legal</td><td>Utility</td></tr> <tr> <td>Other</td><td>67,000 Other</td></tr> <tr> <td>Total</td><td>67,000 Total</td></tr> </table>	Expenses	Revenue	Materials	Grants	Consultants	Reserve	Equipment	Development	Legal	Utility	Other	67,000 Other	Total	67,000 Total
Expenses	Revenue														
Materials	Grants														
Consultants	Reserve														
Equipment	Development														
Legal	Utility														
Other	67,000 Other														
Total	67,000 Total														
	0														
	Tax Levy / Rate Impact \$67,000														
Future Year Budget															
Cost-Benefit Analysis and Other Financial Considerations	Tendered price in 2016 was \$60,000.														
Administrative Recommendation															



# Tay Township

## 2020 Budget Request

Truax - Vasey to North Limit																						
Budget Type	Capital																					
Department	Public Works																					
Division	Roads																					
Prepared by	Peter Dance																					
Approved by	Peter Dance																					
Department Priority	A																					
Request Summary	<p>The RNS included this as a 'reconstruct, now' road for the 2018 group. Rehabilitation rather than full reconstruction may be appropriate pending base investigation. Due to proximity, this project should be completed at the same time as Bannister. The high frequency of turning movements on Truax indicate that an asphalt surface is preferred.</p>																					
Service Level Impact	Maintain																					
Expected Useful Life																						
Current Year Budget	<table border="1"> <thead> <tr> <th>Expenses</th> <th>Revenue</th> </tr> </thead> <tbody> <tr> <td>Materials</td> <td>Grants</td> </tr> <tr> <td>Consultants</td> <td>Reserve</td> </tr> <tr> <td>Equipment</td> <td>Development</td> </tr> <tr> <td>Legal</td> <td>Utility</td> </tr> <tr> <td>Other</td> <td>Other</td> </tr> <tr> <td>Total</td> <td>Total</td> </tr> <tr> <td></td> <td>67,000</td> </tr> <tr> <td></td> <td>67,000</td> </tr> <tr> <td></td> <td>0</td> </tr> </tbody> </table>		Expenses	Revenue	Materials	Grants	Consultants	Reserve	Equipment	Development	Legal	Utility	Other	Other	Total	Total		67,000		67,000		0
Expenses	Revenue																					
Materials	Grants																					
Consultants	Reserve																					
Equipment	Development																					
Legal	Utility																					
Other	Other																					
Total	Total																					
	67,000																					
	67,000																					
	0																					
	Tax Levy / Rate Impact \$67,000																					
Future Year Budget																						
Cost-Benefit Analysis and Other Financial Considerations																						
Administrative Recommendation																						

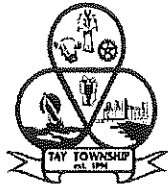


# Tay Township

## 2020 Budget Request

### Duck Bay Road - Meadows to North Limit

Budget Type	Capital																		
Department	Public Works																		
Division	Roads																		
Prepared by	Peter Dance																		
Approved by	Peter Dance																		
Department Priority	A																		
Request Summary	The RNS had included this section as a resurface project in 2020 for \$95,000. Council received a deputation on this road section.																		
Service Level Impact	Maintain																		
Expected Useful Life																			
Current Year Budget	<table border="0"> <tr> <td><b>Expenses</b></td> <td><b>Revenue</b></td> </tr> <tr> <td>Materials</td> <td>Grants</td> </tr> <tr> <td>Consultants</td> <td>Reserve</td> </tr> <tr> <td>Equipment</td> <td>Development</td> </tr> <tr> <td>Legal</td> <td>Utility</td> </tr> <tr> <td>Other</td> <td>Other</td> </tr> <tr> <td>Total</td> <td>Total</td> </tr> <tr> <td>59,000</td> <td>0</td> </tr> <tr> <td>59,000</td> <td></td> </tr> </table>	<b>Expenses</b>	<b>Revenue</b>	Materials	Grants	Consultants	Reserve	Equipment	Development	Legal	Utility	Other	Other	Total	Total	59,000	0	59,000	
<b>Expenses</b>	<b>Revenue</b>																		
Materials	Grants																		
Consultants	Reserve																		
Equipment	Development																		
Legal	Utility																		
Other	Other																		
Total	Total																		
59,000	0																		
59,000																			
	Tax Levy / Rate Impact \$59,000																		
Future Year Budget																			
Cost-Benefit Analysis and Other Financial Considerations																			
Administrative Recommendation																			



# Tay Township

## 2020 and 2022 Budget Request

Water and Road Project																									
Budget Type	Capital																								
Department	Public Works																								
Division	Roads																								
Prepared by	Peter Dance																								
Approved by	Peter Dance																								
Department Priority	A																								
Request Summary	<p>The 2019 LTP and budget included a \$50,000 allowance for design of the watermain project for construction in 2020 (and 2022). The program follows the 2019 LTP with the exception of substituting a section of Fifth instead of Ninth. The current program addresses our biggest area of failures and water quality complaints by removing the last of the cast iron pipe from the lower section of the Port McNicoll distribution system. Watermain will be added from Keewatin to First to improve the distribution system network. This sheet provides road cost only, based on the 2017 Alberta project.</p>																								
	2020 Fifth - Hayes to Arpin																								
	2020 Hayes - Fifth to Fourth																								
	2022 Alberta - Fifth to First																								
	2022 Bell - First to West Limit																								
	2022 Second - Alberta to Wardell																								
Service Level Impact	Maintain																								
Expected Useful Life																									
Current Year Budget	<table border="0"> <thead> <tr> <th colspan="2">Expenses</th> <th>Revenue</th> </tr> </thead> <tbody> <tr> <td>Materials</td> <td></td> <td>Grants</td> </tr> <tr> <td>Consultants</td> <td></td> <td>Reserve</td> </tr> <tr> <td>Equipment</td> <td></td> <td>Development</td> </tr> <tr> <td>Legal</td> <td></td> <td>Utility</td> </tr> <tr> <td>Other</td> <td>417,000</td> <td>Other</td> </tr> <tr> <td>Total</td> <td>417,000</td> <td>Total</td> </tr> <tr> <td></td> <td></td> <td>0</td> </tr> </tbody> </table>	Expenses		Revenue	Materials		Grants	Consultants		Reserve	Equipment		Development	Legal		Utility	Other	417,000	Other	Total	417,000	Total			0
Expenses		Revenue																							
Materials		Grants																							
Consultants		Reserve																							
Equipment		Development																							
Legal		Utility																							
Other	417,000	Other																							
Total	417,000	Total																							
		0																							
	Tax Levy / Rate Impact \$417,000																								
Future Year Budget	2022 - \$625,000																								
Cost-Benefit Analysis and Other Financial Considerations																									
Administrative Recommendation																									

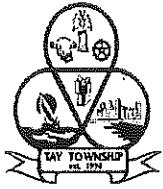


# Tay Township

## 2020 Budget Request

### Fifth - Arpin to Hayes

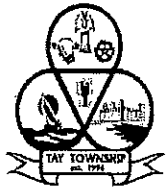
Budget Type	Capital																												
Department	Public Works																												
Division	Roads																												
Prepared by	Peter Dance																												
Approved by	Peter Dance																												
Department Priority	A																												
Request Summary	The RNS included this section in 2020. The south limit has been extended from Alberta to Hayes to correspond to the watermain replacement program. The costing is for the road portion of a combined water/road project. It is noted that sewer from Hayes to Alberta could be added to this project at the cost of the property owners to enable development.																												
Service Level Impact	Maintain																												
Expected Useful Life																													
Current Year Budget	<table border="0"> <thead> <tr> <th colspan="2">Expenses</th> <th colspan="2">Revenue</th> </tr> </thead> <tbody> <tr> <td>Materials</td> <td></td> <td>Grants</td> <td></td> </tr> <tr> <td>Consultants</td> <td></td> <td>Reserve</td> <td></td> </tr> <tr> <td>Equipment</td> <td></td> <td>Development</td> <td></td> </tr> <tr> <td>Legal</td> <td></td> <td>Utility</td> <td></td> </tr> <tr> <td>Other</td> <td>347,500</td> <td>Other</td> <td></td> </tr> <tr> <td>Total</td> <td>347,500</td> <td>Total</td> <td>0</td> </tr> </tbody> </table>	Expenses		Revenue		Materials		Grants		Consultants		Reserve		Equipment		Development		Legal		Utility		Other	347,500	Other		Total	347,500	Total	0
Expenses		Revenue																											
Materials		Grants																											
Consultants		Reserve																											
Equipment		Development																											
Legal		Utility																											
Other	347,500	Other																											
Total	347,500	Total	0																										
	<table border="0"> <tr> <td colspan="2">Tax Levy / Rate Impact</td> <td>\$347,500</td> </tr> </table>	Tax Levy / Rate Impact		\$347,500																									
Tax Levy / Rate Impact		\$347,500																											
Future Year Budget																													
Cost-Benefit Analysis and Other Financial Considerations																													
Administrative Recommendation																													



# Tay Township

## 2021 and 2027 Budget Request

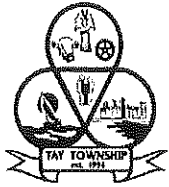
Triple Bay Road - Talbot to North Limit		
Budget Type	Capital	
Department	Public Works	
Division	Roads	
Prepared by	Peter Dance	
Approved by	Peter Dance	
Department Priority	A	
Request Summary	<p>The RNS and LTP have this road in two sections. The section north of Comber Place is proposed as a asphalt reconstruction project in 2021 at a cost of \$1,233,000. The section from Talbot to Comber Place is scheduled as an asphalt resurface in 2027. This road has been brought to the attention of Council by concerned members of the public.</p>	
Service Level Impact	Maintain	
Expected Useful Life		
Current Year Budget	<p><b>Expenses</b></p> <p>Materials</p> <p>Consultants</p> <p>Equipment</p> <p>Legal</p> <p>Other 670,000</p> <p>Total 670,000</p>	<p><b>Revenue</b></p> <p>Grants</p> <p>Reserve</p> <p>Development</p> <p>Utility</p> <p>Other</p> <p>Total 0</p>
	Tax Levy / Rate Impact \$670,000	
Future Year Budget	2027 - \$175,000	
Cost-Benefit Analysis and Other Financial Considerations		
Administrative Recommendation		



# Tay Township

## 2022 and 2025 Budget Request

Forgets - Old Penetanguishene to Wood																									
Budget Type	Capital																								
Department	Public Works																								
Division	Roads																								
Prepared by	Peter Dance																								
Approved by	Peter Dance																								
Department Priority	A																								
Request Summary	The RNS included the 600 m gravel section as a resurface project in 2022 the remaining 1700 m was recommended for 2025. The 600 m gravel section should be returned to surface treatment as long as the drainage issues are addressed at the same time.																								
Service Level Impact	Maintain																								
Expected Useful Life																									
Current Year Budget	<table border="0"> <thead> <tr> <th colspan="2">Expenses</th> <th>Revenue</th> </tr> </thead> <tbody> <tr> <td>Materials</td> <td></td> <td>Grants</td> </tr> <tr> <td>Consultants</td> <td></td> <td>Reserve</td> </tr> <tr> <td>Equipment</td> <td></td> <td>Development</td> </tr> <tr> <td>Legal</td> <td></td> <td>Utility</td> </tr> <tr> <td>Other</td> <td>105,000</td> <td>Other</td> </tr> <tr> <td>Total</td> <td>105,000</td> <td>Total 0</td> </tr> <tr> <td colspan="2">Tax Levy / Rate Impact</td> <td>\$105,000</td> </tr> </tbody> </table>	Expenses		Revenue	Materials		Grants	Consultants		Reserve	Equipment		Development	Legal		Utility	Other	105,000	Other	Total	105,000	Total 0	Tax Levy / Rate Impact		\$105,000
Expenses		Revenue																							
Materials		Grants																							
Consultants		Reserve																							
Equipment		Development																							
Legal		Utility																							
Other	105,000	Other																							
Total	105,000	Total 0																							
Tax Levy / Rate Impact		\$105,000																							
Future Year Budget	2025 - \$210,000																								
Cost-Benefit Analysis and Other Financial Considerations																									
Administrative Recommendation																									



# Tay Township

## 2022 Budget Request

### Wood - Forgets to 1050 m South

Budget Type	Capital																				
Department	Public Works																				
Division	Roads																				
Prepared by	Peter Dance																				
Approved by	Peter Dance																				
Department Priority	A																				
Request Summary	<p>This section has always been a gravel road. It was reconstructed in 2014 at the time of the solar farm project. It has functioned well. It is proposed to convert this to surface treatment. In addition to the improvement in ride. This will reduce the life-cycle cost. Consideration will be given to including the 300 m on Elliott and the 300 m section on Forgets (at added cost).</p>																				
Service Level Impact	Maintain																				
Expected Useful Life																					
Current Year Budget	<table border="1"> <thead> <tr> <th>Expenses</th> <th>Revenue</th> </tr> </thead> <tbody> <tr> <td>Materials</td> <td>Grants</td> </tr> <tr> <td>Consultants</td> <td>Reserve</td> </tr> <tr> <td>Equipment</td> <td>Development</td> </tr> <tr> <td>Legal</td> <td>Utility</td> </tr> <tr> <td>Other</td> <td>Other</td> </tr> <tr> <td>Total</td> <td>Total</td> </tr> <tr> <td>117,000</td> <td>0</td> </tr> <tr> <td>117,000</td> <td></td> </tr> <tr> <td colspan="2">Tax Levy / Rate Impact \$117,000</td> </tr> </tbody> </table>	Expenses	Revenue	Materials	Grants	Consultants	Reserve	Equipment	Development	Legal	Utility	Other	Other	Total	Total	117,000	0	117,000		Tax Levy / Rate Impact \$117,000	
Expenses	Revenue																				
Materials	Grants																				
Consultants	Reserve																				
Equipment	Development																				
Legal	Utility																				
Other	Other																				
Total	Total																				
117,000	0																				
117,000																					
Tax Levy / Rate Impact \$117,000																					
Future Year Budget																					
Cost-Benefit Analysis and Other Financial Considerations																					
Administrative Recommendation																					





# Tay Township

## 2022 and 2025 Budget Request

### Elliott - Wood to Ron Jones

Budget Type	Capital														
Department	Public Works														
Division	Roads														
Prepared by	Peter Dance														
Approved by	Peter Dance														
Department Priority	A														
Request Summary	There are some sections of surface treated roads that have been returned to gravel due to extremely poor condition. Generally, these sections are the result of drainage or base problems. This results in operational concerns (grading and winter control) as well as having an unexpected surface change in the road for drivers. Most of these sections are included with other projects scheduled for the next year or two. On Elliott there is a 300 m section from Wood easterly that was surface treatment but was returned to gravel road. The 2020 project addresses this section and related drainage problems. The remaining 800 m can be resurfaced in 2025 as per the RNS.														
Service Level Impact	Maintain														
Expected Useful Life															
Current Year Budget	<table> <tr> <th>Expenses</th><th>Revenue</th></tr> <tr> <td>Materials</td><td>Grants</td></tr> <tr> <td>Consultants</td><td>Reserve</td></tr> <tr> <td>Equipment</td><td>Development</td></tr> <tr> <td>Legal</td><td>Utility</td></tr> <tr> <td>Other</td><td>67,000 Other</td></tr> <tr> <td>Total</td><td>67,000 Total</td></tr> </table>	Expenses	Revenue	Materials	Grants	Consultants	Reserve	Equipment	Development	Legal	Utility	Other	67,000 Other	Total	67,000 Total
Expenses	Revenue														
Materials	Grants														
Consultants	Reserve														
Equipment	Development														
Legal	Utility														
Other	67,000 Other														
Total	67,000 Total														
	<table> <tr> <td>Tax Levy / Rate Impact</td><td>\$67,000</td></tr> </table>	Tax Levy / Rate Impact	\$67,000												
Tax Levy / Rate Impact	\$67,000														
Future Year Budget	2025 - \$90,000														
Cost-Benefit Analysis and Other Financial Considerations															
Administrative Recommendation															



# Tay Township

## 2023 Budget Request

Albert Street - Richard to George		
Budget Type	Capital	
Department	Public Works	
Division	Roads	
Prepared by	Peter Dance	
Approved by	Peter Dance	
Department Priority	A	
Request Summary	<p>The RNS and LTP have this included as an asphalt reconstruction project. There are sections that will require reconstruction, as well as the potential to just resurface some parts. There is design work almost completed for the section from Jephson to Maple. Drainage and water upgrades are required as part of this project in addition to consideration of sidewalk needs. This budget may be understated if a comprehensive reconstruction is completed.</p>	
Service Level Impact	Maintain	
Expected Useful Life		
Current Year Budget	<p><b>Expenses</b></p> <p>Materials</p> <p>Consultants</p> <p>Equipment</p> <p>Legal</p> <p>Other 251,000</p> <p>Total 251,000</p>	<p><b>Revenue</b></p> <p>Grants</p> <p>Reserve</p> <p>Development</p> <p>Utility</p> <p>Other</p> <p>Total 0</p>
	Tax Levy / Rate Impact \$251,000	
Future Year Budget		
Cost-Benefit Analysis and Other Financial Considerations		
Administrative Recommendation		



# Tay Township

## 2023 and 2024 Budget Request

Water and Road Project																							
Budget Type	Capital																						
Department	Public Works																						
Division	Roads																						
Prepared by	Peter Dance																						
Approved by	Peter Dance																						
Department Priority	A																						
Request Summary	<p>The 2019 LTP included a 2021 allowance for design of the watermain project for construction in 2022 (realistically 2023 and 2024). The program follows the 2019 LTP with the exception of substituting Ninth for a section of Fifth. This program addresses our second biggest area of failures and water quality complaints by removing the last of the cast and ductile iron pipe from the upper section of the Port McNicoll distribution system. This sheet provides road cost only, based on the 2017 Alberta project.</p>																						
	2023	Ninth -Talbot to Manitoba - decommission local main																					
	2024	Barnes - Arpin to Hayes																					
	2024	Franklin - Seventh to Barnes																					
	2024	McPhee - Seventh to Barnes																					
	2024	Seventh - Alberta to Arpin - water project is Alberta to																					
		McPhee - consider re-lining																					
	2024	Athabasca - Seventh to Barnes - consider re-lining																					
Service Level Impact	Maintain																						
Expected Useful Life																							
Current Year Budget	<table border="0"> <thead> <tr> <th colspan="2">Expenses</th> <th>Revenue</th> </tr> </thead> <tbody> <tr> <td>Materials</td> <td></td> <td>Grants</td> </tr> <tr> <td>Consultants</td> <td></td> <td>Reserve</td> </tr> <tr> <td>Equipment</td> <td></td> <td>Development</td> </tr> <tr> <td>Legal</td> <td></td> <td>Utility</td> </tr> <tr> <td>Other</td> <td>347,500</td> <td>Other</td> </tr> <tr> <td>Total</td> <td>347,500</td> <td>Total</td> </tr> </tbody> </table>		Expenses		Revenue	Materials		Grants	Consultants		Reserve	Equipment		Development	Legal		Utility	Other	347,500	Other	Total	347,500	Total
Expenses		Revenue																					
Materials		Grants																					
Consultants		Reserve																					
Equipment		Development																					
Legal		Utility																					
Other	347,500	Other																					
Total	347,500	Total																					
	Tax Levy / Rate Impact \$347,500																						
Future Year Budget	2024 - \$1,042,500																						
Cost-Benefit Analysis and Other Financial Considerations																							
Administrative Recommendation																							



# Tay Township

## 2025 and 2027 Budget Request

### John Dillingno - West To Park

Budget Type	Capital																												
Department	Public Works																												
Division	Roads																												
Prepared by	Peter Dance																												
Approved by	Peter Dance																												
Department Priority	A																												
Request Summary	The RNS and LTP show the section from Park to Trillium in 2025 and the section from Trillium to West in 2027. Both are listed as asphalt resurface. There has been some design completed on these sections. That work was premised on conversion to an urban cross section to address drainage issues. A simple resurface as per the RNS is not recommended. There should at least be some rehabilitation work.																												
Service Level Impact	Maintain																												
Expected Useful Life																													
Current Year Budget	<table border="1"> <thead> <tr> <th colspan="2">Expenses</th> <th colspan="2">Revenue</th> </tr> </thead> <tbody> <tr> <td>Materials</td> <td></td> <td>Grants</td> <td></td> </tr> <tr> <td>Consultants</td> <td></td> <td>Reserve</td> <td></td> </tr> <tr> <td>Equipment</td> <td></td> <td>Development</td> <td></td> </tr> <tr> <td>Legal</td> <td></td> <td>Utility</td> <td></td> </tr> <tr> <td>Other</td> <td>60,000</td> <td>Other</td> <td></td> </tr> <tr> <td>Total</td> <td>60,000</td> <td>Total</td> <td>0</td> </tr> </tbody> </table>	Expenses		Revenue		Materials		Grants		Consultants		Reserve		Equipment		Development		Legal		Utility		Other	60,000	Other		Total	60,000	Total	0
Expenses		Revenue																											
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Tax Levy / Rate Impact		\$60,000																											
Future Year Budget	2027 \$45,000																												
Cost-Benefit Analysis and Other Financial Considerations																													
Administrative Recommendation																													



## STAFF REPORT

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**Department/Function:** Public Works

**Chair:** Mayor Walker

**Meeting Date:** February 6, 2019

**Report No.:** PW-2019-09

**Report Title:** 2019 Road Program Options

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### **RECOMMENDATION:**

That Staff Report No. PW-2019-09 regarding options for the 2019 road program be received;

And that the 2019 road program be approved as presented in Option 3 of this report.

### **INTRODUCTION/BACKGROUND:**

At the budget meeting held on January 24, 2019, Committee received report PW-2019-07. That report presented an update to the 2019 to 2028 Roads Long Term Plan. Committee recommended that Gratrix Road be removed from the 2019 program and requested that staff provide a recommendation for alternative road work.

This report provides options (attached) for the 2019 road program and makes a recommendation.

### **ANALYSIS:**

Sections of Hogg Valley Road, Ron Jones Road and Rumney Road were included in the 2019 program and remain constant in the options presented below.

Option 1 – No Change

This option presents the first 25 road sections as presented on January 24.

#### Option 2 – Adjust in RNS Priority

This option moves Gratrix Road from 2019 to 2021 and advances other roads following the Road Needs Study (RNS) priority order within the constraints of budget and coordination with the 2020 watermain work.

#### Option 3 – Adjust for Safety and Ride

This option moves Gratrix Road from 2019 to 2021 and advances other roads based on safety and ride considerations.

The major deflections on First Avenue and Triple Bay Road present an increased safety risk. These deflections are beyond simple bumps or potholes. In the case of Triple Bay Road, an 80 km/h speed limit is also in place. It is proposed to advance First Avenue from 2020 to the 2019 program. It is noted that future sanitary sewer works could affect this road before the end of its useful life. However, this work is not scheduled and could be many years in the future and it may be possible to select a shoulder or boulevard location for the pipe. It is noted that there is also a budget of \$60,000 to continue work on the First Avenue trail from Arpin north.

It is proposed to advance the pulverizing of the worst section of Triple Bay Road to 2019. This section would remain in gravel until completion of the scheduled rehabilitation project in 2020.

Two other projects are advanced to address surface condition issues. The Duck Bay Road project is advanced from 2020 to 2019. In addition, the pulverizing component of the Ebenezer Side Road (Old Penetanguishene to Wood) is advanced from 2021 to 2019. This section would remain in gravel until 2021.

#### **FINANCIAL/BUDGET IMPACT:**

The 2019 budget document included \$1,223,322 for this program. That has dictated the selection of roads as presented. The total for Option 3 (recommended) is \$1,222,000.

The 2019, 2020 and 2021 three year total in report PW-2019-07 was \$4,048,000. The revised program presented in PW-2019-09 is \$4,075,000 for Options 1 and 2 and \$3,981,000 for Option 3. Probable construction costs have been reviewed and, for Option 3 Banister and Truax are now proposed as resurfacing projects rather than reconstruction projects.

While gravel surfaces are the highest life-cycle cost option, the additional length added to our system is manageable in the short term. In addition to the safety and ride improvements of temporarily moving to gravel, the cost of cold patching those road sections is eliminated.

**CONCLUSION:**

Options for the 2019 road program are presented and with the preferred option addressing immediate safety and surface condition issues.

Prepared By: Peter Dance, Director of Public Works

Recommended by:

Date: January 28, 2019

Peter Dance, P. Eng.  
Director of Public Works

Reviewed By;

Date: January 29, 2019

Robert J. Lamb, CEcD, Ec.D.  
Chief Administrative Officer

Option A - No Change

Name	#	From	To	Length (m)	Width (m)	Surface Type	Need	RNS Year	2019	2020	2021
Bannister Street	1	Vasey Road	South Limit	200	5.2	ST to Asphalt	Reconstruct	2018		\$67,000	
Ron Jones Road	2	Ebenezer Sideroad	400m South	400		ST to Asphalt	Rehabilitate	2018		\$67,000	
Truax Lane	3	Vasey Road	North Limit	200	5.2	ST to Asphalt	Reconstruct	2018		\$67,000	
Hogg Valley Road	4	Ron Jones Road	Old Fort Road	1500	6.6	Surface Treated	Resurface	2018	\$192,000		
Ron Jones Road	5	200m N of Hogg Valley Road	McMann	1250	6.6	Surface Treated	Resurface	2018	\$145,000		
Gratrix Road	6	500m N of Fesserton SR ROW	Vasey Road	3500	6.6	Surface Treated	Rehabilitate	2019	\$600,000		
Hogg Valley Road	7	Rumney Road	Old Fort Road	1300	6.7	Surface Treated	Resurface	2020		\$128,000	
First Avenue	8	Woodlands Avenue	Arpin Street	900	7	Asphalt	Reconstruct	2020		\$450,000	
Davidson Street	9	Fourth Avenue	Third Avenue	100	5.6	Asphalt	Resurface	2020		\$20,000	
Duck Bay Road	10	Meadows Avenue	North Limit	500	6.2	Surface Treated	Resurface	2020		\$70,000	
Wood Road	11	1350 m N of McMann SR	Ebenezer Sideroad	700	5.6	Surface Treated	Resurface	2020		\$62,000	
Hayes	12	Fourth	Fifth	100	6.5	Asphalt	Resurface W	N/A		\$69,500	
Fifth Avenue	13	Arpin Street	Hayes	500	5.5	Asphalt	Rehabilitate W	2020		\$347,500	
Triple Bay Road	14	North Limit	Comber Place	2000	6.5	Asphalt	Reconstruct	2021			\$670,000
Hogg Valley Road	15	Gervais Road	Newton Street	1500	6.4	Surface Treated	Resurface	2020			\$146,000
Ebenezer Side Road	16	Old Penetanguishene Road	Wood Road	2300	6.8	Surface Treated	Resurface	2020			\$269,000
Osborne Street	17	94 Osborne Street	HCB/GS Transition	300	6.6	Asphalt	Adequate	2021			
Quarry Road	18	Duck Bay Road	East Limit	800	6.5	Asphalt	Reconstruct	2022			\$445,000
O'Leary Lane	19	140m west of Vents Beach Road	Vents Beach Road	140	5.5	Asphalt	Rehabilitate	2022			
McDermitt Trail	20	Anderson Crescent	Anderson Crescent	500	6.8	Asphalt	Resurface	2022			
Ninth Avenue	21	Assiniboia Street	Talbot Street	300	6.5	Asphalt	Rehabilitate W	2022			
Lumber Road	22	Ellen Street	Victoria Street	400	6.2	Asphalt	Rehabilitate	2022			
Forgets Road	23	1400m E of Old Penetanguishene Road	300m W of Wood Road	600	5.2	Gravel to ST	Rehabilitate	2022			
Wood Road	24	Forgets	1050m South	1050	6.5	Gravel to ST	Resurface	N/A			
Rumney Road	25	Elliott Sideroad	1850m South	1850	6.6	Surface Treated	Rehabilitate	2022	\$260,000		
									\$1,197,000	\$1,348,000	\$1,530,000



Option B - Adjust in RNS Priority

Name	#	From	To	Length (m)	Width (m)	Surface Type	Need	RNS Year	2019	2020	2021
Bannister Street	1	Vasey Road	South Limit	200	5.2	ST to Asphalt	Reconstruct	2018	\$67,000		
Ron Jones Road	2	Ebenezer Sideroad	400m South	400		ST to Asphalt	Rehabilitate	2018	\$67,000		
Truax Lane	3	Vasey Road	North Limit	200	5.2	ST to Asphalt	Reconstruct	2018	\$67,000		
Hogg Valley Road	4	Ron Jones Road	Old Fort Road	1500	6.6	Surface Treated	Resurface	2018	\$192,000		
Ron Jones Road	5	200m N of Hogg Valley Road	McMann	1250	6.6	Surface Treated	Resurface	2018	\$145,000		
Gratrix Road	6	500m N of Fesserton SR ROW	Vasey Road	3500	6.6	Surface Treated	Rehabilitate	2019			\$600,000
Hogg Valley Road	7	Rumney Road	Old Fort Road	1300	6.7	Surface Treated	Resurface	2020	\$128,000		
First Avenue	8	Woodlands Avenue	Arpin Street	900	7	Asphalt	Reconstruct	2020		\$450,000	
Davidson Street	9	Fourth Avenue	Third Avenue	100	5.6	Asphalt	Resurface	2020	\$20,000		
Duck Bay Road	10	Meadows Avenue	North Limit	500	6.2	Surface Treated	Resurface	2020	\$70,000		
Wood Road	11	1350 m N of McMann SR	Ebenezer Sideroad	700	5.6	Surface Treated	Resurface	2020	\$62,000		
Hayes	12	Fourth	Fifth	100	6.5	Asphalt	Resurface W	N/A		\$69,500	
Fifth Avenue	13	Arpin Street	Hayes	500	5.5	Asphalt	Rehabilitate W	2020		\$347,500	
Triple Bay Road	14	North Limit	Comber Place	2000	6.5	Asphalt	Reconstruct	2021		\$670,000	
Hogg Valley Road	15	Gervais Road	Newton Street	1500	6.4	Surface Treated	Resurface	2020			\$146,000
Ebenezer Side Road	16	Old Penetanguishene Road	Wood Road	2300	6.8	Surface Treated	Resurface	2020			\$269,000
Osborne Street	17	94 Osborne Street	HCB/GS Transition	300	6.6	Asphalt	Adequate	2021			
Quarry Road	18	Duck Bay Road	East Limit	800	6.5	Asphalt	Reconstruct	2022			\$445,000
O'Leary Lane	19	140m west of Vents Beach Road	Vents Beach Road	140	5.5	Asphalt	Rehabilitate	2022			
McDermitt Trail	20	Anderson Crescent	Anderson Crescent	500	6.8	Asphalt	Resurface	2022			
Ninth Avenue	21	Assiniboia Street	Talbot Street	300	6.5	Asphalt	Rehabilitate W	2022			
Lumber Road	22	Ellen Street	Victoria Street	400	6.2	Asphalt	Rehabilitate	2022			
Forgets Road	23	1400m E of Old Penetanguishene Road	300m W of Wood Road	600	5.2	Gravel to ST	Rehabilitate	2022			
Wood Road	24	Forgets	1050m South	1050	6.5	Gravel to ST	Resurface	N/A			
Rumney Road	25	Elliott Sideroad	1850m South	1850	6.6	Surface Treated	Rehabilitate	2022	\$260,000		
									\$1,078,000	\$1,537,000	\$1,460,000

Option C - Adjust for Safety and Ride

Name	#	From	To	Length (m)	Width (m)	Surface Type	Need	RNS Year	2019	2020	2021
Bannister Street	1	Vasey Road	South Limit	200	5.2	ST to Asphalt	Resurface	2018		\$20,000	
Ron Jones Road	2	Ebenezer Sideroad	400m South	400		ST to Asphalt	Rehabilitate	2018		\$67,000	
Truax Lane	3	Vasey Road	North Limit	200	5.2	ST to Asphalt	Resurface	2018		\$20,000	
Hogg Valley Road	4	Ron Jones Road	Old Fort Road	1500	6.6	Surface Treated	Resurface	2018	\$192,000		
Ron Jones Road	5	200m N of Hogg Valley Road	McMann	1250	6.6	Surface Treated	Resurface	2018	\$145,000		
Gratrix Road	6	500m N of Fesserton SR ROW	Vasey Road	3500	6.6	Surface Treated	Rehabilitate	2019			\$600,000
Hogg Valley Road	7	Rumney Road	Old Fort Road	1300	6.7	Surface Treated	Resurface	2020		\$128,000	
First Avenue	8	Woodlands Avenue	Arpin Street	900	7	Asphalt	Reconstruct	2020	\$450,000		
Davidson Street	9	Fourth Avenue	Third Avenue	100	5.6	Asphalt	Resurface	2020		\$20,000	
Duck Bay Road	10	Meadows Avenue	North Limit	500	6.2	Surface Treated	Resurface	2020	\$70,000		
Wood Road	11	1350 m N of McMann SR	Ebenezer Sideroad	700	5.6	Surface Treated	Resurface	2020		\$62,000	
Hayes	12	Fourth	Fifth	100	6.5	Asphalt	Resurface W	N/A		\$69,500	
Fifth Avenue	13	Arpin Street	Hayes	500	5.5	Asphalt	Rehabilitate W	2020		\$347,500	
Triple Bay Road	14	North Limit	Comber Place	2000	6.5	Asphalt	Reconstruct	2021	\$40,000	\$630,000	
Hogg Valley Road	15	Gervais Road	Newton Street	1500	6.4	Surface Treated	Resurface	2020			\$146,000
Ebenezer Side Road	16	Old Penetanguishene Road	Wood Road	2300	6.8	Surface Treated	Resurface	2020	\$65,000		\$204,000
Osborne Street	17	94 Osborne Street	HCB/GS Transition	300	6.6	Asphalt	Adequate	2021			
Quarry Road	18	Duck Bay Road	East Limit	800	6.5	Asphalt	Reconstruct	2022			\$445,000
O'Leary Lane	19	140m west of Vents Beach Road	Vents Beach Road	140	5.5	Asphalt	Rehabilitate	2022			
McDermitt Trail	20	Anderson Crescent	Anderson Crescent	500	6.8	Asphalt	Resurface	2022			
Ninth Avenue	21	Assiniboia Street	Talbot Street	300	6.5	Asphalt	Rehabilitate W	2022			
Lumber Road	22	Ellen Street	Victoria Street	400	6.2	Asphalt	Rehabilitate	2022			
Forgets Road	23	1400m E of Old Penetanguishene Road	300m W of Wood Road	600	5.2	Gravel to ST	Rehabilitate	2022			
Wood Road	24	Forgets	1050m South	1050	6.5	Gravel to ST	Resurface	N/A			
Rumney Road	25	Elliott Sideroad	1850m South	1850	6.6	Surface Treated	Rehabilitate	2022	\$260,000		
									\$1,222,000	\$1,364,000	\$1,395,000