



**COMMITTEE OF THE WHOLE  
"SPECIAL" MINUTES**

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**Monday, September 11<sup>th</sup>, 2023**

**5:30 p.m.**

**Tay Valley Municipal Office – 217 Harper Road, Perth, Ontario  
Council Chambers**

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**ATTENDANCE:**

**Members Present:** Chair, Councillor Wayne Baker  
Reeve Rob Rainer  
Deputy Reeve Fred Dobbie  
Councillor Greg Hallam  
Councillor Andrew Kendrick  
Councillor Angela Pierman (left at 7:58 p.m.)  
Councillor Marilyn Thomas

**Staff Present:** Amanda Mabo, Chief Administrative Officer/Clerk  
Aaron Watt, Deputy Clerk  
Noelle Reeve, Planner  
Sean Ervin, Public Works Manager  
Ashley Liznick, Treasurer

**Regrets:** Councillor Korrine Jordan

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**1. CALL TO ORDER**

The meeting was called to order at 5:30 p.m.  
A quorum was present.

**2. DISCLOSURE OF PECUNIARY INTEREST AND/OR CONFLICT OF INTEREST  
AND GENERAL NATURE THEREOF**

None at this time.

### 3. DELEGATIONS & PRESENTATIONS

#### i) **Presentation: Asset Management Plan.**

The Reeve acknowledged staff and the consultant for all the work that went into this presentation and the asset management plan. The efforts by all are appreciated.

E. Ibrahim, gave the updated PowerPoint presentation – *attached, page 6.*

A Member raised questions that some of the numbers and calculations are difficult to follow, that the timelines and criteria for calculations are not consistent across the categories.

E. Ibrahim explained that the Asset Management Plan is updated every five (5) years. 2022 figures are being used, and as more specific information is received the plan is updated and the calculations become more specific. Asset management software runs calculations and scenarios, the report is a snapshot of data at a particular time.

General discussion followed regarding the calculations, the planning process, the differences between replacement, repair, and rehabilitation of assets and how each affect costs and lifespan of assets in different ways.

It was generally agreed that the Asset Management Plan is a snapshot in time that can be used to understand how to budget efficiently in the coming years.

Discussion followed confirming that the Asset Management Plan is now a requirement, that many grant applications require a municipality to have one in order to apply. It was confirmed that this document is used to determine funding requirements, is updated often, and is to be used as a guide in long range planning and budgeting.

#### Recommendation to Council:

**“THAT**, the Asset Management Plan dated September 6, 2023, be adopted as presented.”

The Committee recessed at 6:26 p.m.

The Committee returned to session at 6:31 p.m.

ii) **Presentation: 10-Year Capital Plan 2023.**

The Treasurer gave a PowerPoint presentation – *attached, page 18.*

Members raised general questions throughout the presentation. It was discussed and explained by the Chief Administrative Officer/Clerk, Treasurer, and Public Works Manager that by adopting the 10-Year Capital Plan, it gives staff guidance regarding the capital portions of the 2024 budget. It was explained to be a working document and will be used as a roadmap in the process of budgeting and planning.

The Chief Administrative Officer/Clerk added for information that this document is reviewed and updated annually.

The Committee suggested that in next year's version that the waste site sheds be moved from the buildings section to the waste section.

Staff noted that certain items in the capital plan, in particular in relation to buildings, would only proceed if grant funding was available. Due to the fact that grants are not included in the asset management plan and have a potential for budgetary changes, the Committee requested a summary of grants received for the last five (5) years.

Recommendation to Council:

**“THAT**, the Council of the Corporation of Tay Valley Township adopt the 10-Year Capital Plan 2023 as amended, by removing the duplicate entry of the Maberly Hall – Parks Plan under Land Improvements.”

Councillor Pierman left at 7:58 p.m.

**4. REPORTS**

i) **Report #FIN-2023-08 Budget Review and Forecast as of July 31, 2023**

The Treasurer distributed to Members an updated Reserves spreadsheet showing the additional \$105,204 from the 2023 Budget – *attached, page 38.*

Recommendation to Council:

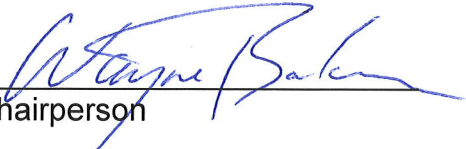
**“THAT**, Report #FIN-2023-08 - Budget Review and Forecast as at July 31, 2023, be received for information;

**AND THAT**, the additional \$105,204 reserve allocation budgeted for 2023 be allocated as follows:

- Road Equipment Reserve \$50,204
- Bridge Reserve \$55,000.”

**5. ADJOURNMENT**

The Committee adjourned at 8:04 p.m.

  
Chairperson

  
Aaron Watt, Deputy Clerk

# **DELEGATIONS AND PRESENTATIONS**

# 2024 Asset Management Plan

## Tay Valley Township



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### Presenter



**Elio Ibrahim**  
Senior Asset Management Advisor

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## Project Background



### Primary Deliverable

AMP (2024 O. Reg. 588/17 Compliant)

### Supporting Components

- ✓ Risk & Criticality Analysis
- ✓ Lifecycle Strategies
- ✓ Levels of Service

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## Infrastructure assets are vital for communities

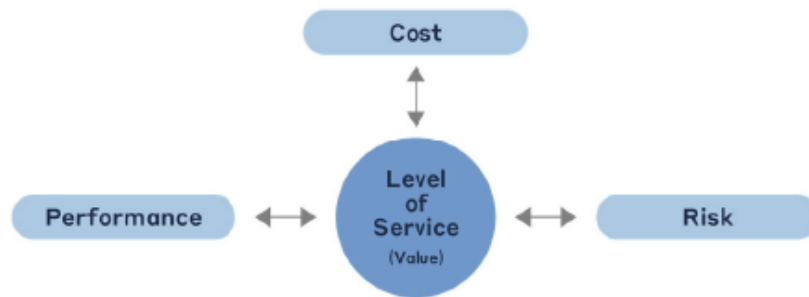


- We need a meaningful way to organize what we own
- We need a way to understand what services we provide
- We need a way to ensure accountability to our residents and stakeholders for the services they use

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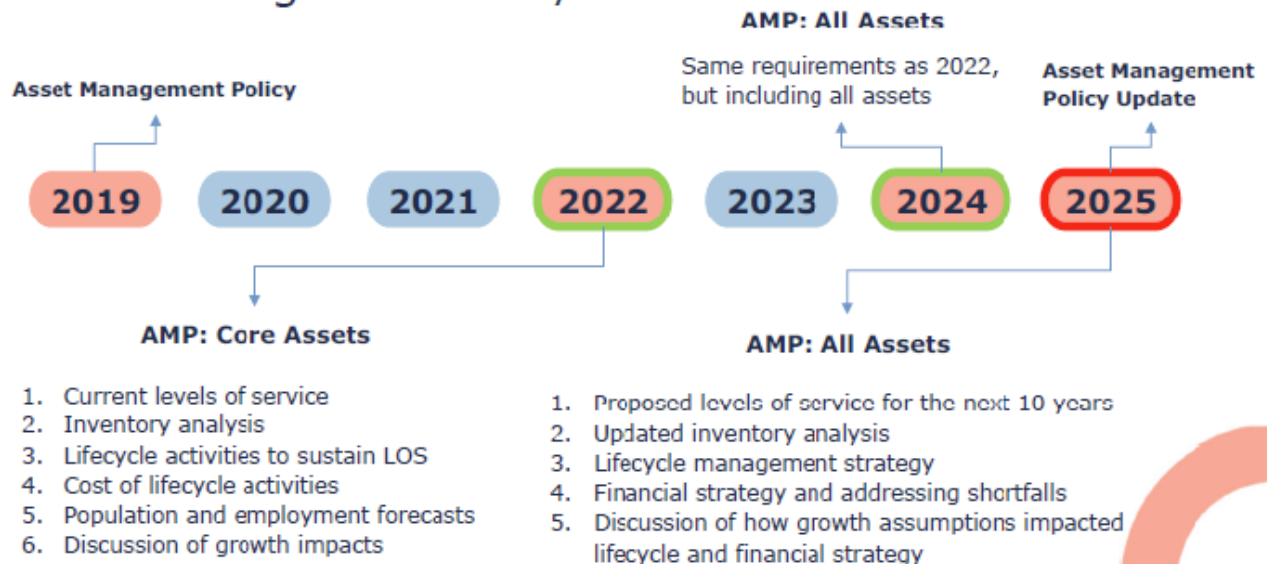
# What does Asset Management involve?

**ISO 55000:** "Coordinated activity of an organization to realize value from assets"



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# Ontario Regulation 588/17



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## AMPs - Updating, Reviewing & Public Posting



- After 2025, asset management plans must be updated at least once every 5 years
- After 2025, every municipal council shall conduct an annual review of its asset management progress on or before July 1st
- The asset management policy and plans should be posted to the municipal website

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## Asset Management Plan (2021 year-end)

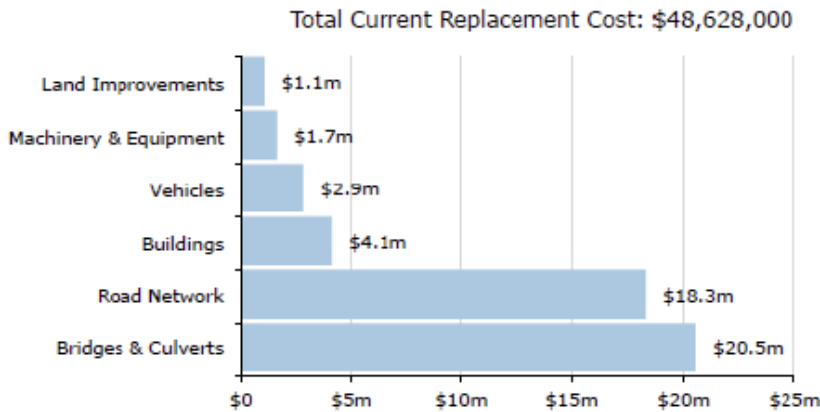
- ( What is the current state of municipal infrastructure?
- ) What process improvements can increase confidence in analysis and decision-making?
- \* What is the Township's financial capacity to meet long-term capital requirements?

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## Replacement Cost of Asset Portfolio

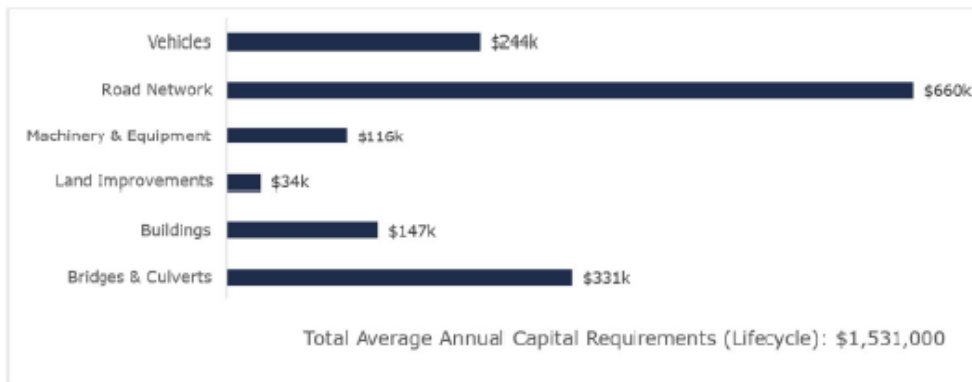
**Total = \$48.6 million**

**\$13,000 per household**



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## Annual Capital Requirements per Household



**\$408 per household**



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## Overall Condition of the Asset Portfolio

Asset Category	Asset Segment	% of Assets with Assessed Condition	Source of Condition Data
Road Network	Paved Roads	97%	2022 Road Needs Study
Bridges & Culverts	Bridges	100%	2022 OSIM Report
	Structural Culverts	95%	2022 OSIM Report
Buildings & Facilities	All	100%	2022 Building Condition Assessment Reports
Machinery & Equipment	All	0%	Age-based
Vehicles	All	0%	Age-based
Land Improvements	All	0%	Age-based

87% assets have assessed conditions

63% assets are in fair or better condition



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## Assessed Condition Data in AM Decision Making



Mitigation of risks associated with asset failure



Identifying the most economic intervention

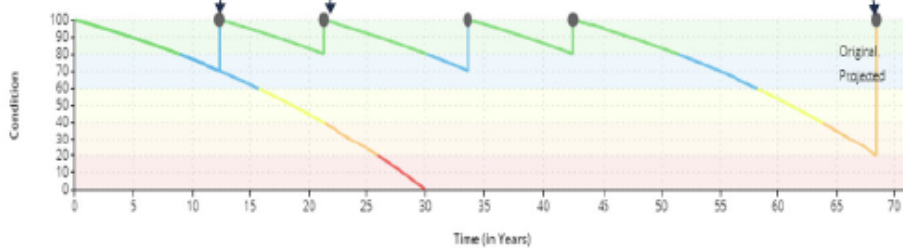


Accurate predication of future expenditure requirements

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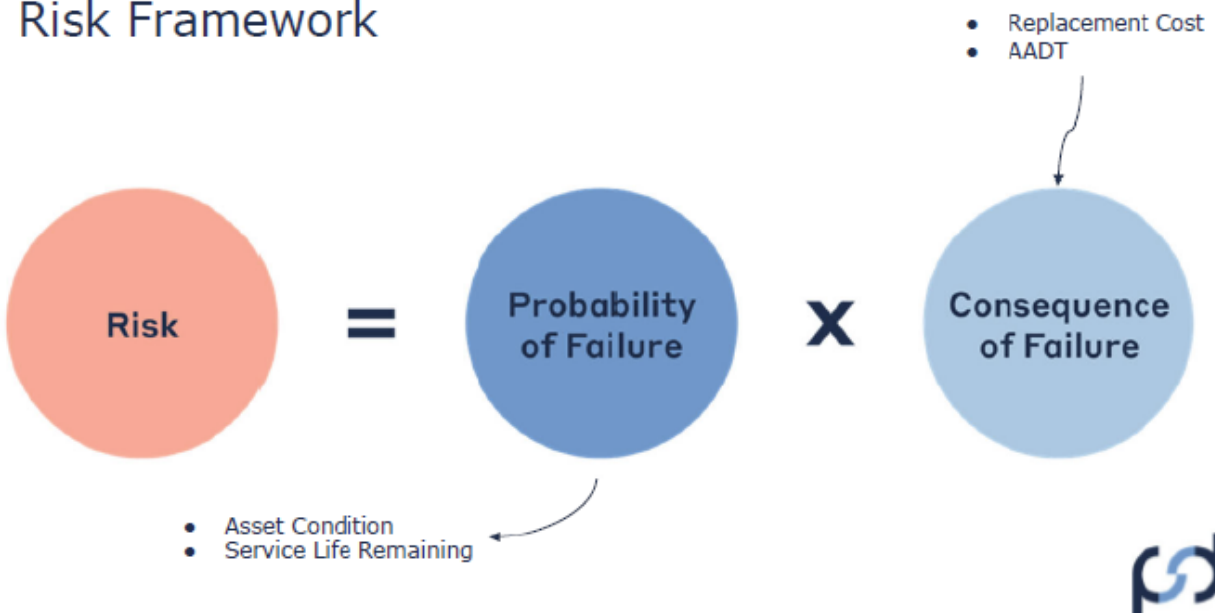
# Lifecycle Strategies - Example Asphalt Roads

Asphalt Roads (HCB)		
Event Name	Event Class	Event Trigger
Enhanced Thin Surfacing (Microsurfacing, Thin HMA Overlay)	Rehabilitation	80 to 85 Condition
Enhanced Double Thin Surfacing (Double Microsurfacing, Cape Seal)	Rehabilitation	70 to 80 Condition
Full Reconstruction	Replacement	20 Condition



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# Risk Framework



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# Risk & Criticality

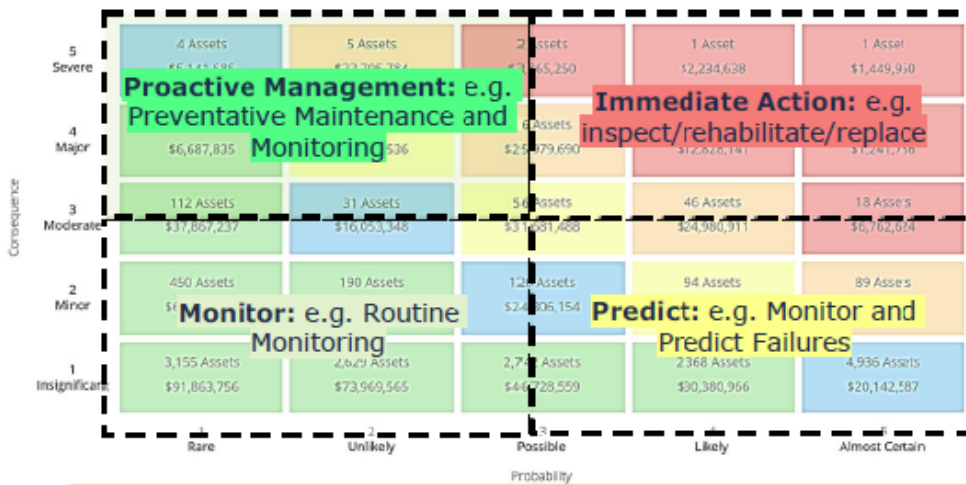


A good risk model will assist in prioritizing resources and applying them to the right asset at the right time



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# Operationalizing Risk

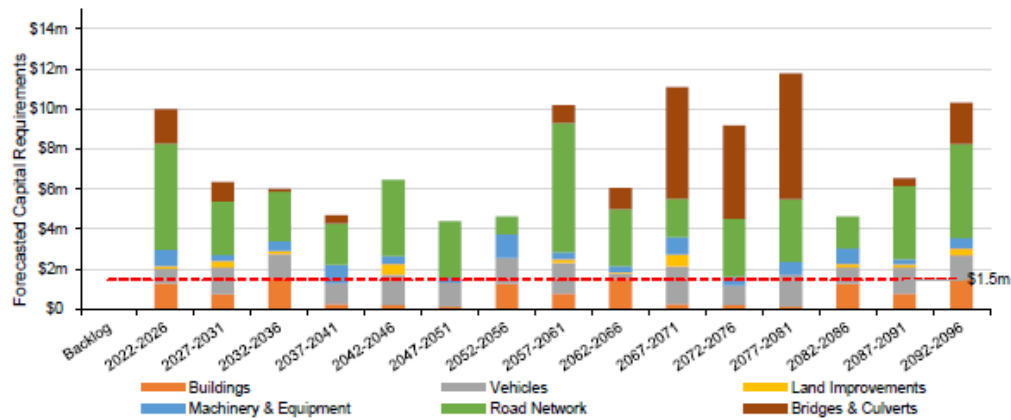


Identify which assets pose the highest risk to delivering your objectives and use this data to drive the capital planning process



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## Forecasted Capital Requirements



**\$1.53 million per year**



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## Annual Capital Requirement & Infrastructure Deficit

	Annual Capital Requirement	Funding Available	Annual Capital Deficit
<b>Tax-Funded Assets (2022 Numbers)</b>	\$1,532,000	\$1,249,000	\$283,000
<b>Tax-Funded Assets (5-year Average Numbers)</b>	\$1,532,000	\$1,118,000	\$414,000

Tax Funded Assets are currently funded at 81.5% of their long-term capital requirements

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## Reinvestment Rates

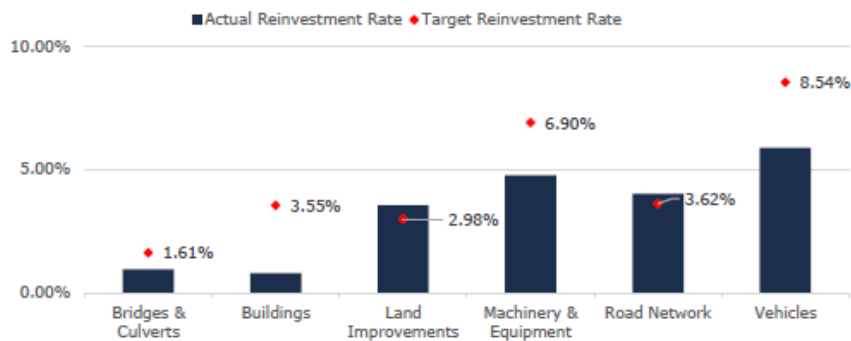
$$\text{Target Reinvestment Rate} = \frac{\text{Annual Capital Requirement}}{\text{Total Replacement Cost}}$$

$$\text{Actual Reinvestment Rate} = \frac{\text{Annual Capital Funding}}{\text{Total Replacement Cost}}$$



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## Average Annual Reinvestment Rates



**Target: 3.15%**

**Actual: 2.57%**



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# Financial Strategy

Funding Source	Years until Full Funding	Average Annual Tax Increase
Tax-Funded	5	0.89%

- Both sustainable and one-time grants/transfers will continue to be an essential source of revenue for investment in capital infrastructure
- Adjustments to taxes should be supplemented with project prioritization and evaluation of the desired levels of service



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## Recommendations & Next Steps



### Continue to review and refine asset inventory in consultation with internal departments/stakeholders

- Continue working on building a solid inventory that captures all the assets that are owned by the Township

### Prepare for O.Reg. 588/17 2025 Requirements



- Develop a **Levels of Service Framework**
- Identify **proposed levels of service** for the 2025 requirement
- Develop a medium to long-term external communication strategy to **engage the public** on asset management and obtain feedback to inform development of proposed levels of service

### Continuous improvement and regular review



- An asset management plan is a **living document** that should be updated regularly to inform long-term planning
- Continue to **operationalize** the asset management database through its functionality



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## On Going Project with PSD

### Condition Assessment Guidelines and Data Work

- To help the township in reaching higher levels of data maturity and accuracy

### Risk Framework

- To further refine the risk calculations and the identification of the data that is helpful for asset criticality analysis

### Lifecycle Management Framework

- To accurately document and update the lifecycle management strategies that staff employ on assets, this includes event triggers, costs, and impacts

### Levels of Service Framework

- To develop a way to measure service performance and to be used as a decision-making tool to define service levels



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Questions?

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# 10-Year Capital Plan

September 11, 2023



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## Agenda

- Reserves – overview
- Vehicles & Equipment
- Bridges
- Paved Roads & Gravel Roads
- Buildings
- Waste
- Land Improvements/Recreation
- Other Assets
- Reserves – circle back
- Questions and Comments



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## Reserves - Overview

- Broken out by Reserve class (i.e. equipment, bridges, roads, etc.)
  - Some classes are made up of multiple reserves (i.e. buildings includes reserves for Township office/garage, burgess hall/garage, etc.)
- Other Funding such as Federal Gas Tax and Development Charges are also summarized



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## Reserves – Overview cont.

- Opening balance is the ending of the prior year
- Annual contribution is based on 2023 budgeted amounts plus an additional 4% increase each year
  - 4% is the rate at which the Township has also inflated the expenses
- Annual Spending is directly from each class working paper and the specific portion that is being funded by Reserves



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## Reserves – Overview cont.

- **RED** this indicates a year when the reserve goes into a negative balance or indicates an infrastructure funding gap



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## Vehicles & Equipment

### ➤ Replacement Schedule

Replacement Schedule	
Tandem Trucks	12Years
Light Trucks	10Years
Graders	15Years
Backhoes	12Years
Tractor	15Years
Front Load Grass Mower	10Years
Boom Brush Mower	15Years

- Costs are based on current costing of similar equipment that have recently been tendered (i.e. tandem in 2023) or are industry standard
- Typically funded only from reserves



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## Bridges

- OSIM Report completed every 2 years which indicates next 10 years of proposed capital bridge & culvert projects
  - Next reporting will be done in 2024
  - Due to last report being in 2022 the 10 year capital projections only go to 2032 (hence nothing noted in 2033)
- Costs are given to the Township by the OSIM consultants, inflated by Township staff year over year
- These costs are not full replacement but major repair/rehabilitation



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## Paved Roads

- Two Types of Roads
  - 1) Surface Treatment (LCB) and
  - 2) Paved (HCB)
- Lifecycle Events can include
  - 1) Pavement Preservation and
  - 2) Reconstruction
    - differentiated by colour on the working paper
- Roads Needs Study completed and presented to Council in 2023
- This maintains current service level



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## Gravel Roads

- Lifecycle Events can include
  - 1) Localized Improvement and
  - 2) Maintenance Gravel
    - differentiated by colour on the working paper
- Roads Needs Study completed and presented to Council in 2023 which included gravel roads
- This maintains current service level, with optional increase in service (i.e. upgrade to surface treatment or possible widening) noted in green and yellow



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## Roads – 10 YR vs. AMP

- There are many reasons why the 10-year capital plan might not match exactly with the AMP, some of which include:
  - Square meter price (industry standard) versus detailed costing
  - The AMP may not consider additional work for curb & gutter, storm sewer, number of culverts, paved shoulders, etc.
  - The AMP does not optimize projects that may be linked due to location, etc.
  - Lifecycle events & age of road
  - Inflation
- Both the AMP and the 10-year capital do not consider potential grants unless they are known (i.e. gas tax and OCIF) and do not consider Development Charges past the Township's current DC Study



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## Buildings

- Building Condition Assessments (BCA) completed by end of 2021/early 2022
- Building Reserves have not received much attention as there was never adequate data available to analyze them
- Further discussions will be needed to determine the cost/benefit of certain works proposed from the BCA,
  - this will be done on an annual basis for budget (at minimum)
- Certain BCA recommendations may only occur if grant funding was received to do so



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## Waste

- New this year Waste is being separated out from other categories as it has its own reserve
- Depending on the future layout of the Waste Site and the recommendations from the Waste Master Plan, those could affect the Waste Site Reserve
- There is money still available (\$65,000) in the modernization funding for future waste site modifications



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## Land Improvements/Recreation

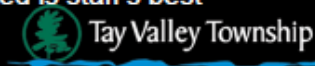
- Recreation Master Plan was completed in 2019
- Recommendation was to enhance current assets first and then look at further expansion
- Some of these projects could be considered future service level increases but have been slotted in to show how they could be funded with current reserves
- Parkland has not been considered further than 2023, as currently the contributions to Parkland are low and would not make a difference in decision making



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## Other Assets & Projects

- This working paper indicates other projects that impact reserve balances but are not considered capital (i.e., OP, Zoning, AMP, elections, studies & plans, etc.).
- With the change in Development Charges (due to Bill 23) studies such as the DC study or Official Plan, etc. are no longer eligible costs, as such these now need to be included in long term planning
- Staff are waiting to meet with IT staff from the County to better understand the IT requirements for the Township over the next 5-10 years. What is currently presented is staff's best knowledge at the time of presenting.



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## Reserves – Circle Back

- Infrastructure gaps are common
- Council decisions can affect reserves balances, but so can other things, for example:
  - Grants, Growth, Inflation, etc.
- In the 2023 budget Council directed staff to increase reserves by an extra \$105,204, staff are recommending the following:
  - \$50,204 to the Roads Equipment Reserve
  - \$55,000 to the Bridge Reserve
  - This will not eliminate the infrastructure gap within these categories, but it will help lessen the gap
- Staff are doing a great job



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## Questions/Comments



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**TAY VALLEY TOWNSHIP**  
**10 YEAR CAPITAL PLAN**  
**2023 TO 2033**

**RESERVES**

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
<b>Vehicles &amp; Equipment = Roads Equipment + New Infrastructure</b>												
Opening	355,809	546,714	242,418	240,810	272,794	(35,753)	(331,666)	(509,467)	(201,420)	(490,331)	(398,707)	(683,508)
Annual Contribution	239,106	243,454	253,192	263,320	273,853	284,807	296,199	308,047	320,369	333,184	346,511	360,371
Annual Spending	(48,201)	(547,750)	(254,800)	(231,336)	(582,400)	(580,719)	(474,000)	0	(609,280)	(241,560)	(631,312)	(819,000)
Closing	546,714	242,418	240,810	272,794	(35,753)	(331,666)	(509,467)	(201,420)	(490,331)	(398,707)	(683,508)	(1,142,137)
<b>Bridge Construction</b>												
Opening	382,213	180,182	236,337	35,052	(435,909)	(543,256)	(323,795)	(241,987)	(215,341)	(771,977)	(513,411)	(382,515)
Annual Contribution	193,443	201,181	209,228	217,597	226,301	235,353	244,767	254,558	264,740	275,330	286,343	297,797
Annual Spending	(395,474)	(145,026)	(410,513)	(688,559)	(333,648)	(15,892)	(162,960)	(227,912)	(821,376)	(16,764)	(155,448)	0
Closing	180,182	236,337	35,052	(435,909)	(543,256)	(323,795)	(241,987)	(215,341)	(771,977)	(513,411)	(382,515)	(84,718)
<b>Road Construction (Paved &amp; Gravel)</b>												
Opening	955,337	758,886	816,066	240,814	395,862	555,908	116,499	112,985	(440,078)	(606,202)	(686,782)	(284,322)
Annual Contribution	451,249	469,298	836,470	869,929	904,726	940,915	978,551	1,017,694	1,058,401	1,100,737	1,144,767	1,190,558
Annual Spending	(647,700)	(412,118)	(1,411,722)	(714,881)	(744,680)	(1,380,324)	(982,065)	(1,570,757)	(1,224,525)	(1,181,317)	(742,307)	(766,127)
Closing	758,886	816,066	240,814	395,862	555,908	116,499	112,985	(440,078)	(606,202)	(686,782)	(284,322)	140,109
<b>Buildings = Township Office/Garage + Burgess Hall/Garage + Sherbrooke Garage + Salt Sheds + Maberley Hall</b>												
Opening	345,715	378,279	211,765	(125,260)	(499,862)	(562,366)	(726,118)	(983,026)	(1,133,541)	(1,154,532)	(1,218,763)	(1,555,074)
Annual Contribution	32,564	33,866	35,221	36,629	38,095	39,618	41,203	42,851	44,565	46,348	48,202	50,130
Annual Spending	0	(200,380)	(372,245)	(411,232)	(100,598)	(203,371)	(298,111)	(193,366)	(65,556)	(110,579)	(384,513)	(370,306)
Closing	378,279	211,765	(125,260)	(499,862)	(562,366)	(726,118)	(983,026)	(1,133,541)	(1,154,532)	(1,218,763)	(1,555,074)	(1,875,250)
<b>Waste = Waste Site</b>												
Opening	50,376	46,721	5,400	10,786	16,387	22,213	28,272	(14,627)	(8,074)	(53,739)	(100,771)	(93,400)
Annual Contribution	3,225	5,179	5,386	5,602	5,826	6,059	6,301	6,553	6,815	7,088	7,371	7,666
Annual Spending	(6,880)	(46,500)	0	0	0	0	(49,200)	0	(52,480)	(54,120)	0	0
Closing	46,721	5,400	10,786	16,387	22,213	28,272	(14,627)	(8,074)	(53,739)	(100,771)	(93,400)	(85,734)
<b>Land Improvements = Recreation Capital</b>												
Opening	187,615	181,680	197,284	216,861	237,217	178,966	115,688	80,412	103,573	95,900	88,480	81,404
Annual Contribution	39,015	42,804	44,516	46,297	48,149	50,075	52,078	54,161	56,327	58,580	60,923	63,360
Annual Spending	(44,949)	(27,200)	(24,940)	(25,940)	(106,400)	(113,353)	(87,353)	(31,000)	(64,000)	(66,000)	(68,000)	(70,000)
Closing	181,680	197,284	216,861	237,217	178,966	115,688	80,412	103,573	95,900	88,480	81,404	74,764
<b>Other Assets = Office Equip + Official Plan/Zoning Reserves + Election+ Asset Management</b>												
Opening	141,976	84,692	78,450	8,420	45,692	(22,961)	(95,452)	(33,469)	(126,615)	(81,247)	(616)	103,833
Annual Contribution	36,934	73,384	76,319	79,372	82,547	85,849	89,283	92,854	96,568	100,431	104,448	108,626
Annual Spending	(94,218)	(79,626)	(146,350)	(42,100)	(151,200)	(158,340)	(27,300)	(186,000)	(51,200)	(19,800)	0	0
Closing	84,692	78,450	8,420	45,692	(22,961)	(95,452)	(33,469)	(126,615)	(81,247)	(616)	103,833	212,459
<b>TOTALS with Federal Gas Tax &amp; Development Charges NOT included</b>												
Opening	2,419,041	2,177,154	1,787,720	627,483	32,181	(407,249)	(1,216,573)	(1,589,180)	(2,021,496)	(3,062,127)	(2,830,569)	(2,813,583)
Annual Contribution	995,536	1,069,166	1,460,333	1,518,746	1,579,496	1,642,676	1,708,383	1,776,718	1,847,787	1,921,698	1,998,566	2,078,509
Annual Spending	(1,237,423)	(1,458,600)	(2,620,570)	(2,114,048)	(2,018,926)	(2,451,999)	(2,080,990)	(2,209,034)	(2,888,418)	(1,690,140)	(1,981,579)	(2,025,432)
Closing	2,177,154	1,787,720	627,483	32,181	(407,249)	(1,216,573)	(1,589,180)	(2,021,496)	(3,062,127)	(2,830,569)	(2,813,583)	(2,760,506)
<b>Federal Gas Tax</b>												
Opening	637,577	533,373	41,419	0	0	0	0	0	0	0	0	0
Annual Contribution	195,796	187,478	187,478	187,478	187,478	187,478	187,478	187,478	187,478	187,478	187,478	187,478
Annual Spending	(300,000)	(679,432)	(228,897)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)
Closing	533,373	41,419	0	0	0	0	0	0	0	0	0	0
<b>Development Charge Reserve</b>												
Opening	212,289	276,199	(131,251)	(24,811)	84,727	187,495	294,024	399,357	476,971	586,941	648,521	763,521
Annual Contribution	191,146	175,000	166,250	149,625	134,665	115,000	115,000	115,000	115,000	115,000	115,000	115,000
Annual Spending	(127,237)	(582,450)	(59,810)	(40,086)	(31,898)	(8,470)	(9,667)	(37,386)	(5,030)	(53,420)	0	(126,448)
Closing	276,199	(131,251)	(24,811)	84,727	187,495	294,024	399,357	476,971	586,941	648,521	763,521	752,073
<b>TOTALS with Federal Gas Tax &amp; DC included</b>												
Opening	3,268,907	2,986,726	1,697,888	602,672	116,908	(219,754)	(922,548)	(1,189,822)	(1,544,525)	(2,475,186)	(2,182,049)	(2,050,062)
Annual Contribution	1,382,478	1,431,644	1,814,061	1,855,849	1,901,639	1,945,154	2,010,861	2,079,196	2,150,265	2,224,176	2,301,044	2,380,987
Annual Spending	(1,664,660)	(2,720,482)	(2,909,277)	(2,341,612)	(2,238,302)	(2,647,948)	(2,278,135)	(2,433,898)	(3,080,926)	(1,931,039)	(2,169,057)	(2,339,358)
Closing	2,986,726	1,697,888	602,672	116,908	(219,754)	(922,548)	(1,189,822)	(1,544,525)	(2,475,186)	(2,182,049)	(2,050,062)	(2,008,434)

TAY VALLEY TOWNSHIP  
10 YEAR CAPITAL PLAN  
2023 TO 2033

		2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
<b>Vehicles &amp; Equipment</b>	Expenses	666,750	254,800	231,336	582,400	580,719	474,000	0	609,280	241,560	631,312	819,000
Road Equipment Reserve	Funding	(547,750)	(254,800)	(231,336)	(582,400)	(580,719)	(474,000)	0	(609,280)	(241,560)	(631,312)	(819,000)
Contingency	Funding	(15,000)	0	0	0	0	0	0	0	0	0	0
Development Charges	Funding	(104,000)	0	0	0	0	0	0	0	0	0	0
Current Year Levy	Funding	0	0	0	0	0	0	0	0	0	0	0
<b>Bridges Construction</b>	Expenses	145,026	410,513	720,036	333,648	15,892	162,960	227,912	821,376	16,764	155,448	0
Bridge Reserve	Funding	(145,026)	(410,513)	(688,559)	(333,648)	(15,892)	(162,960)	(227,912)	(821,376)	(16,764)	(155,448)	0
Gas Tax Funds	Funding	0	0	0	0	0	0	0	0	0	0	0
Development Charges	Funding	0	0	(31,477)	0	0	0	0	0	0	0	0
Current Year Levy	Funding	0	0	0	0	0	0	0	0	0	0	0
<b>Roads Construction</b>	Expenses	1,659,000	1,751,019	1,009,909	1,036,055	1,673,625	1,276,563	1,864,621	1,517,034	1,474,022	1,029,785	1,114,365
Roads Reserve	Funding	(412,118)	(1,411,722)	(714,881)	(744,680)	(1,380,324)	(982,065)	(1,570,757)	(1,224,525)	(1,181,317)	(742,307)	(766,127)
OCIF	Funding	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)
Gas Tax Funds	Funding	(679,432)	(228,897)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)
Development Charges	Funding	(467,450)	(10,400)	(7,549)	(3,898)	(5,823)	(7,020)	(6,386)	(5,030)	(5,227)	0	(60,760)
Current Year Levy	Funding	0	0	(0)	0	0	0	0	(0)	(0)	0	0
<b>Buildings</b>	Expenses	200,380	372,245	411,232	100,598	203,371	298,111	193,366	65,556	158,772	384,513	435,994
Buildings Reserves	Funding	(200,380)	(372,245)	(411,232)	(100,598)	(203,371)	(298,111)	(193,366)	(65,556)	(110,579)	(384,513)	(370,306)
Grants	Funding	0	0	0	0	0	0	0	0	0	0	0
Development Charges	Funding	0	0	0	0	0	0	0	0	(48,193)	0	(65,688)
Current Year Levy	Funding	0	0	0	0	0	0	0	0	0	0	0
<b>Waste Sites</b>	Expenses	101,500	10,400	32,800	0	0	49,200	0	52,480	54,120	0	0
Waste Reserve	Funding	(46,500)	0	0	0	0	(49,200)	0	(52,480)	(54,120)	0	0
Contingency	Funding	(50,250)	(10,400)	(32,800)	0	0	0	0	0	0	0	0
Development Charges	Funding	(4,750)	0	0	0	0	0	0	0	0	0	0
Current Year Levy	Funding	0	0	0	0	0	0	0	0	0	0	0
<b>Land Improvements</b>	Expenses	32,500	26,000	27,000	134,400	116,000	90,000	62,000	64,000	66,000	68,000	70,000
Recreation Capital Reserve	Funding	(20,000)	(24,940)	(25,940)	(106,400)	(113,353)	(87,353)	(31,000)	(64,000)	(66,000)	(68,000)	(70,000)
Parkland	Funding	(12,500)	0	0	0	0	0	0	0	0	0	0
Development Charges	Funding	0	(1,060)	(1,060)	(28,000)	(2,647)	(2,647)	(31,000)	0	0	0	0
Current Year Levy	Funding	0	0	0	0	0	0	0	0	0	0	0
<b>Other Assets (IT, Equipment, Asset Manager)</b>	Expenses	188,876	194,700	42,100	151,200	158,340	27,300	186,000	51,200	19,800	81,600	35,000
Reserves	Funding	(79,626)	(146,350)	(42,100)	(151,200)	(158,340)	(27,300)	(186,000)	(51,200)	(19,800)	(81,600)	(35,000)
Contingency	Funding	(103,000)	0	0	0	0	0	0	0	0	0	0
Grants	Funding	0	0	0	0	0	0	0	0	0	0	0
Development Charges	Funding	(6,250)	(48,350)	0	0	0	0	0	0	0	0	0
Current Year Levy	Funding	0	0	0	0	0	0	0	0	0	0	0
<b>TOTALS</b>	Expenses	2,994,032	3,019,677	2,474,412	2,338,302	2,747,948	2,378,135	2,533,898	3,180,926	2,031,039	2,350,657	2,474,358
Reserve Funds Used	Funding	(1,451,400)	(2,620,570)	(2,114,048)	(2,018,926)	(2,451,999)	(2,080,990)	(2,209,034)	(2,888,418)	(1,690,140)	(2,063,179)	(2,060,432)
Contingency	Funding	(168,250)	(10,400)	(32,800)	0	0	0	0	0	0	0	0
Parkland	Funding	(12,500)	0	0	0	0	0	0	0	0	0	0
Development Charges	Funding	(582,450)	(59,810)	(40,086)	(31,898)	(8,470)	(9,667)	(37,386)	(5,030)	(53,420)	0	(126,448)
Grants	Funding	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)
Gas Tax Funds	Funding	(679,432)	(228,897)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)
Current Year Levy	Funding	0	0	0	0	0	0	0	0	(0)	0	0

TAY VALLEY TOWNSHIP		Inflation =	4%											
10 YEAR CAPITAL PLAN		Replacement		1	2	3	4	5	6	7	8	9	10	
2023 TO 2033		ost (at 2022/23)	Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
<b>VEHICLES</b>														
<u>Tandem Trucks</u>														
T1	2016 Western Star Tandem (#1)	395,000	2028						474,000					
T2	2019 International Tandem Dump Truck (#2)	395,000	2030								505,600			
20-2	2020 Freightliner Tandem Dump Truck	395,000	2032										537,200	
20-3	2020 Freightliner Tandem Dump Truck	395,000	2034											
T12	2012 International Tandem 7600 6X4 (#12)	395,000	2023	395,000										
T17	2014 International Tandem 7600 Truck (#17)	395,000	2026				442,400							
<u>Light Trucks</u>														
20-1	2020 Chevrolet Silverado (upgrade to electric)	81,000	2030								103,680			
T6	2016 Ford F550 (#6) - no electric option available	125,000	2026	15,000			140,000							
T11	2011 Chev Silverado 4X4 3/4 ton (#11) - no electric option available	85,000	2025			91,800								119,000
T14	2012 Dodge RAM 1500 (#14)	61,000	2023	60,250										
T16	2013 Mitsubishi-CBO (#16) (Building) (upgrade to electric)	69,200	2025			74,736								94,112
<b>EQUIPMENT</b>														
<u>Heavy Equipment</u>														
19-1	2019 John Deere Backhoe 310SL (#19-1)	160,000	2031									211,200		
E13	2007 Volvo Grader G960 (#13)	500,620	2027	55,000				580,719						
E15	2012 CASE Backhoe (#15)	170,000	2024		176,800									
E71	2009 Komatsu Backhoe (#71)	NOT SCHEDULED FOR REPLACEMENT - BACKHOE MOVES FROM ROADS TO WASTE SITE AT TIME OF REPLACMENT												
E80	2018 John Deere 770M Grader (#80)	465,000	2033											651,000
21-1	Tractor with Flail and Boom Mower	247,175	2035											
	Water Tank No.	39,500	2022											
	Water Tank No.	40,000	2025			43,200								
<u>Light Equipment - (Yearly Input)</u>														
	1990 Steamers (quantity 2 - only replace 1)	20,000	2025			21,600								
E82	1998 Brush Chipper	75,000	2024		78,000									
E87	2021 Eddyntet Sweeper	17,197	2035											
E88	Diesel Generator 30 kwh (#88) (1998) (Transfer switch for 2022)	60,000	2048											
E89	Brush Head (#89)-Bathurst	37,500	2023	37,500										
	Emergency Response Trailer	12,500	2022											
	Front Flail Grass Mower	23,000	2031									30,360		
	Boom Brush Mower	98,000	2036											
	Calcium Chloride Bladder (2013)	20,000	2033											28,000
	Pressure Washer	15,000	2033											21,000
<u>Fire Services</u>														
	Pumper Truck		2022	54,000										
	Deputy Chief Vehicle		2022											
	South Sherbrooke Pumper Truck		2022	50,000										
		4,791,692		666,750	254,800	231,336	582,400	580,719	474,000	0	609,280	241,560	631,312	819,000
<b>Potential Funding:</b>														
	Reserves - Equipment			547,750	254,800	231,336	582,400	580,719	474,000	0	609,280	241,560	631,312	819,000
	Reserves - Special Contingency			15,000										
	Development Charges			104,000	0	0	0	0	0	0	0	0	0	0
	Total			666,750	254,800	231,336	582,400	580,719	474,000	0	609,280	241,560	631,312	819,000
	<b>CUMMULATIVE (SHORTFALL) IN RESERVES</b>			242,418	240,810	272,794	(35,753)	(295,912)	(509,467)	(201,420)	(490,331)	(398,707)	(683,508)	(1,142,137)

TAY VALLEY TOWNSHIP															
10 YEAR CAPITAL PLAN			Inflation	4%											
2023 TO 2033		Repair/Replacement			1	2	3	4	5	6	7	8	9	10	
BRIDGES		Engineering Design Costs (at 2022)	Construction Cost (at 2022)	Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
STRUCTURE NO.	Various Repairs & Guard Rails														
15-A04	9th Concession Road														
15-092	Adam's Mill Road	13,700	123,300	2028					15,892	147,960					
15-A01	Allan's Mill Road														
15-051	Anderson Road	33,100	297,900	2026			35,748	333,648							
C15-A02	Anglican Church Road Culvert														
15-159	Black Lake Road														
15-072	Bolingbroke Bridge (Crow Lake)														
15-093	Bowes Side Road	70,400	633,600	2025		73,216	684,288								
C15-A03	Doran Road Culvert	71,300	641,700	2030							88,412	821,376			
15-075	Doran Road (Fall River Bridge)	12,500	112,500	2029						15,000	139,500				
15-050	Ennis Road														
15-076	Gambles Side Road	36,036	324,324	2024	36,036	337,297									
15-094	Glen Tay Road														
C15-096	Glen Tay Road Open Footing Culvert	10,899	98,091	2023	108,990										
15-139	Haughians Road	12,700	114,300	2032									16,764	155,448	
C15-048	Hunter Side Road Culvert (Colton Creek)														
15-088	Menzies Munro Side Road														
15-070	Munro Road (Fall River Bridge)														
15-091	Noonans Side Rd														
15-087	Second Line Road	16,900	269,100	2022											
15-089	Upper Scotch Line Road Culvert														
15-090	Upper Scotch Line Road Bridge														
15-095	Upper Scotch Line Road Bridge														
F1	Upper Scotch Line Newly Identified 2016														
	5th Concession Culvert Replacement														
B6-C1	6th Concession (Bath.) Culvert Replacement														
					145,026	410,513	720,036	333,648	15,892	162,960	227,912	821,376	16,764	155,448	0
	<b>Potential Funding:</b>														
	Bridges Reserve				145,026	410,513	688,559	333,648	15,892	162,960	227,912	821,376	16,764	155,448	0
	Federal Gas Tax														
	Development Charges						31,477								
	Total				145,026	410,513	720,036	333,648	15,892	162,960	227,912	821,376	16,764	155,448	0
	<b>CUMMULATIVE (SHORTFALL) IN RESERVES</b>				236,337	35,052	(435,909)	(543,256)	(323,795)	(241,987)	(215,341)	(771,977)	(513,411)	(382,515)	(84,718)



TAY VALLEY TOWNSHIP																												
10 YEAR CAPITAL PLAN																												
		Inflation =		4%		LEGEND:		Pavement Preservation			Reconstruction																	
2023 TO 2033		Repair/Replacement		0		1		2		3		4		5		6		7		8		9		10		Notes:		
ROADS	KMS	Last Work	Cost (at 2022/23)	Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033													
Deficiencies Elimination Prgm																												
Road Condition Assessment			35,000	2027	30,000				40,600						47,600		Move to specific Gravel Road every 5 years											
SURFACE TREATMENT (LCB)																												
L	Allan's Side Road	1.808	2021	75,500	2021	*																				R. 2036		
L	Anglican Church Road	3.343	2008	141,000	2022	*																				R. 2037		
L	Armstrong Line	2.571	2018	153,000	2025	*		165,240																				
L	Ashby Road	0.462	-	27,000	2024	*		28,080																				
L	Bathurst 7th Concession	2.374	-	425,000	2024	*		442,000																				
L	Cameron Side Road (2)	3.600	2022	261,000	2027	*				302,760																		
L	Crow Lake Road	2.938	2009	281,000	2024	*		292,240																				
L	Crozier Road	1.095	2019	51,000	2025	*		61,200																				
L	Hanna Road	4.761	2019																								R. 2034	
L	Iron Mine Road	1.025	-	85,000	2029	*					105,400																	
L	McVeigh Road	0.384	-	75,000	2024	*		78,000																				
L	Menzies Munro Side Road	2.568	2018	393,000	2030	*								503,040														
L	Merkley Road	0.273	-	12,000	2027	*				13,920																	Single Surface Treatment in 2021	
L	Powers Road	2.190	2018	120,000	2023	*	120,000																					
L	Ritchie Side Road	0.887	2009	53,000	2025	*		63,600																				
L	Stanley Road	1.888	2018	312,000	2029	*								386,880														
L	Stanleyville Road	1.870	2020	396,000	2031	*								522,720														
L	Upper Scotch Line (2)	4.150	2021	308,000	2026	*		344,960																				
L	Walters Lane	0.093	-	33,000	2030	*								36,960														
L	Zealand Road (1)	4.196	2009	699,000	2027	*				754,920																		
L	Zealand Road (2)	4.196	2026	323,000	2032	*									439,280													
PAVED (HCB)																												
H	Brooke Valley Road (1)	0.363	-	93,000	2026	*			104,160																			
H	Brooke Valley Road (2)	0.363	-	26,000	2033	*																					36,400	
H	Bygrove Lane	0.695	2012	49,000	2025	*		58,800																				
L	Christie Lake North Shore Road	2.592	2019	192,000	2031	*								263,440														
H	Clarchris Road	0.682	2016	47,000	2031	*								62,040														
H	Crozier Road	2.500	2009	151,000	2025	*		181,200																				
H	Glenn Drive	0.882	-	203,000	2030	*								251,720														
H	Glen Tay Road (Hwy 7 to CR 6)	0.419	-	132,000	2021	*																						
	Glen Tay Road (CR6 to CR10)	2.929	2007	585,000	2028	*					702,000																Ashpalt Overlay in 2028	
	Harper Road (1)	3.757	2015	225,000	2029	*								279,000														
H	Harper Road (2)	2.612	-	677,000	2023	*	1,099,000																				P. 2035	
H	Jodi Lane	0.201	2018	57,000	2033	*																					79,800	
H	Keays Road	1.334	-	347,000	2023	*	410,000																				P. 2035	
H	Kenyon Road	2.159	2018	113,000	2028	*							122,040															
H	Lakewood Road	1.916	1997	492,000	2024	*		511,680																				
H	Maberly Main Street	0.301	-	98,000	2031	*																						
H	McLaren Road	2.011	1997	502,000	2029	*								582,320														
H	Muttons Road	0.524	2016	23,000	2032	*																					31,280	
H	Norris Road	0.154	2016	10,000	2032	*																					13,600	
H	Old Brooke Road (1)	0.442	-	124,000	2026	*			138,880																			
H	Old Brooke Road (2)	0.442	-	35,000	2033	*																					49,000	
H	Orchard Crescent	0.846	2001	52,000	2025	*		56,160																				
H	Otty Lake Side Road (shared)	4.222	2018	169,500	2030	*							216,960														Shared costs with DNE (only 50% cost shown)	
H	Park Lane Court	0.172	2018	56,000	2033	*																					78,400	
H	Posner Lane	0.344	2012	29,000	2029	*		34,800																				
H	Somerville Drive (2)	1.247	2018	321,000	2033	*																					449,400	
H	Stanleyville Road (1)	1.263	2009	88,000	2027	*				102,080																		
		62,042					1,659,000	1,352,000	621,000	588,000	1,214,280	824,040	1,353,600	1,008,680	947,960	531,760	693,000											
							New construction totals					1,509,000	52,000	76,462	38,976	58,232	70,200	63,860	50,304	52,272	0	607,800						
Potential Funding:																												
	OCIF - Formula Based Funding						100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000												
	Development Charges (10% of Constuction)						467,450	10,400	7,549	3,898	5,823	7,020	6,388	5,030	5,227	0	60,760											
	Federal Gas Tax						679,432	228,897	187,478	187,478	187,478	187,478	187,478	187,478	187,478	187,478	187,478											
	Other Grants																											
	Roads Reserve						412,118	1,012,703	325,973	298,824	920,979	529,542	1,059,736	716,172	655,255	244,282	344,762											
	Total						1,659,000	1,352,000	621,000	588,000	1,214,280	824,040	1,353,600	1,008,680	947,960	531,760	693,000											
CUMULATIVE (SHORTFALL) IN RESERVES																												
							816,066	234,916	402,773	555,853	115,354	113,461	(492,299)	(672,956)	(691,444)	(279,146)	187,744											



TAY VALLEY TOWNSHIP												inflation = 4%		Localized Improvement			Maintenance Gravel			Possible widening Possible Upgrade to ST					
10 YEAR CAPITAL PLAN			Maintenance Gravel			Previous Year			Construction			1	2	3	4	5	6	7	8	9	10	Notes			
2023 TO 2033			Metres	Width	Y/L	Y/L	Cost (\$)	Year	Year	Year	Cost (\$)	Year	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033			
ROADS																									
Mill Road	Dead End	Fairbrooke Road	254	3.5	700	178	\$ 3,736	--	2028								4,466								
Miller Bay Road	Elm Grove Road	Miller Bay Road/Private	227	4.0	800	182	\$ 3,819	--	2027								4,430					Widen to 6m in 10+ years?			
Miller Bay Road	Miller Bay Road/Private	Boat Launch	47	4.0	800	38	\$ 795	--	2027								923								
Miller Lane	Glen Tay Road	Dead End	212	4.2	800	170	\$ 3,568	2020	2032	12											4,852				
Miners Point Road	Narrows Lock Road	Big Rideau North Shore Road	2834	6.0	1200	3401	\$ 71,427	2017	2026	9	20,000	2027				79,998		23,200				Ditching/Rock Ex			
Miners Point Road	Big Rideau North Shore Road	Bass Bay Road	1203	6.0	1200	1444	\$ 30,321	2017	2026	9	10,000	2027				33,559		11,600					Ditching/Rock Ex		
Munro Road	Armstrong Road	Dead End	954	4.0	800	763	\$ 16,031	2021	--														-		
Noonan Side Road	Upper Scotch Line	Menzies Munro SR	1762	5.0	1000	1762	\$ 36,992	2020	2030	10	15,000	2025		16,200							47,349		Ditching/Rock Ex		
Norris Road	Muttons Road	Dead End	1354	4.8	1000	1354	\$ 28,435	2018	2030	12											36,396		Widen to 6m in 10+ years?		
North Burgess 8th Concession	Otty Lake Side Road	Dead End	861	4.0	800	689	\$ 14,462	--	2028								17,355						Widen to 6m in 10+ years?		
North Mac Lane	Christie Lake North Shore Road	Dead End	893	5.4	1100	983	\$ 20,639	2023	--														-		
Old Brooke Road	Cooks Road	Strong Side Road	4089	5.0	1000	4089	\$ 85,877	2019	2028	9	65,000	2026												Localized Road Base Repairs	
Old Brooke Road	Strong Side Road	Highway 7	3781	5.0	1000	3781	\$ 79,404	2019	2028	9														Ditching/Rock Ex	
Old Burke Road	McNaughton Road	Bennett Lake Road	1794	5.0	1200	2044	\$ 42,930	--	2027									49,799						-	
Old Morris Road	Keays Road	Bathurst 5th Concession	1132	5.0	1000	1132	\$ 23,780	2015	2028	13								28,535						-	
Palmer Road	Tysiek Road	Dead End	226	6.0	1200	271	\$ 5,701	2023	--															-	
Patterson Road	Patterson Road Private	Christie Lake North Shore Road	102	5.0	1000	102	\$ 2,147	2023	--															-	
Perkins Road	Christie Lake Road	Bathurst Upper 4th Concession	1472	5.8	1100	1619	\$ 34,003	2021	2033	12												47,604		-	
Powers Road	Stanleyville Road	Dead End	1283	6.0	1200	1540	\$ 32,341	2018	2028	10								38,810						Ditching	
Powers Road	Dead End	Narrows Lock Road	860	3.6	700	602	\$ 12,635	2018	2029	11								15,668						-	
Pratt Road	Dead End	Maberly Elphin Road	1061	4.0	800	849	\$ 17,822	2021	2031	10											23,526			-	
Railway Sliding Road	Dead End	Maberly Station Road	166	3.5	700	118	\$ 2,435	2018	2031	13												3,311		-	
Rideau Lake Road	Beet Lane	Elm Grove Road	2064	6.2	1200	2478	\$ 26,001	--	2028									31,202						Upgrade to Surface Treatment in 2033?	
Ritchie Side Road	Crozler Road	Frontenac Boundary	1613	6.0	1200	1935	\$ 40,545	2021	2031	10												55,278		-	
Rutherford Side Road	Bathurst 5th Concession	McVaugh Road	4488	4.8	1000	4488	\$ 94,257	2023	--		15,000	2027						17,400						Ditching/Rock Ex	
Stanley Road	Mackler Side Road	Narrows Lock Road	2701	6.0	1200	3241	\$ 68,065	2015	2024	9	20,000	2029	70,788										24,800	Ditching/Rock Ex	
Star Hill Road	Narrows Locks Road	Star Hill Road Private	297	4.8	1000	297	\$ 6,241	2019	2029	10	7,500	2028						8,000					7,739	Ditching/Rock Ex	
Strong Side Road	Old Brooke Road	Highway 7	1217	4.6	900	1096	\$ 23,006	2021	2033	12															-
Tamarack Road	Brooks Valley Road	Old Brooke Road	1722	5.5	1100	1894	\$ 39,773	2019	2031	12														54,091	-
Township Boundary Road	Bathurst 5th Concession	Drummond 10th Concession	1356	5.2	1000	1356	\$ 14,236	2014	2027	13								16,513							-
Township Boundary Road	Highway 511	Bathurst 5th Concession	1075	5.8	1100	1182	\$ 12,414	--	2027									14,400							-
Trueloves Road	Anglican Church Road	Dead End	563	4.0	800	450	\$ 9,460	--	2024									9,638							-
Tysiek Road	Bathurst Upper 4th Concession	Brooks Valley Road	1325	6.0	1200	1590	\$ 33,385	2023	-2023																-
Upper Scotch Line Road	Menzies Munro Side Road	Dead End	2699	5.2	1000	2699	\$ 56,688	2021	2033	12	20,000	2032										27,200		Ditching/Rock Ex	
			133187																						
											Construction/Upgrade	44,720	34,020	72,800	65,600	51,000	43,400	12,800	75,200	47,600	0				
											Maintenance	354,298	354,889	375,255	385,745	401,523	467,621	495,554	446,862	450,425	421,365				
												399,019	388,909	448,055	459,345	452,523	511,021	508,354	526,062	498,025	421,365				
											Maintenance Gravel Budget	335,000	348,400	361,600	375,200	388,600	402,000	415,400	428,800	442,200	455,600	469,000			
Potential Funding:																									
Development Charges (10% of Construction)																									
Maintenance Gravel Budget (will form part of Road Construction Reserve)																									
Total																									



<b>TAY VALLEY TOWNSHIP</b>		<b>*ANNUAL REVIEW OF RECOMMENDED PROJECTS AND AS SUCH WORK/AMOUNTS ARE SUBJECT TO CHANGE*</b>										
<b>10 YEAR CAPITAL PLAN</b>												
<b>2023 TO 2033</b>		Inflation =	4%									
		0	1	2	3	4	5	6	7	8	9	10
<b>BUILDINGS</b>		2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
<b>Year Aquired</b>												
1973	Bathurst Garage	0	45,386	112,162	806	13,920	16,560	10,044	5,376	0	29,621	0
1995	Bathurst Sand Shed	0	17,597	7,906	0	3,480	31,560	0	0	1,346	0	131,376
1973	Burgess Garage	0	126,728	109,296	0	0	132,120	148,800	0	19,855	0	10,080
1973	Burgess Hall	0	14,851	93,973	30,240	18,653	36,000	5,952	9,984	19,008	18,850	65,604
2009	Burgess Sand Dome	0	3,120	6,480	0	0	2,880	0	0	96,386	13,600	0
2013	Glen Tay ReUse Center	5,400	12,979	0	2,688	0	4,320	0	4,608	0	2,448	1,680
1940's	Glen Tay WS Barn	10,000										
2010	Glen Tay WS Shed	0	2,615	1,944	0	0	1,584	0	0	0	2,326	0
1973	Maberly Garage	0	31,325	46,008	22,176	0	11,520	0	0	7,920	3,427	85,680
1950's	Maberly Hall	6,000	51,168	14,023	0	62,779	32,990	28,570	30,720	4,752	26,112	135,022
1990's	Maberly Rink Storage Shed	7,200	0	2,592	4,368	0	13,457	0	0	0	33,130	4,200
2010	Maberly WS Shed	0	0	0	0	0	2,160	0	9,492	0	6,365	0
1975/2010	Municipal Office	171,780	66,477	16,848	40,320	104,539	10,800	0	5,376	9,504	247,411	2,352
2017	Stanleyville WS Shed	0	0	0	0	0	2,160	0	0	0	1,224	0
		200,380	372,245	411,232	100,598	203,371	298,111	193,366	65,556	158,772	384,513	435,994
	<b>Potential Funding:</b>											
	Reserve Funds	200,380	372,245	411,232	100,598	203,371	298,111	193,366	65,556	110,579	384,513	370,306
	Grants											
	Development Charges									48,193		65,688
	Total	200,380	372,245	411,232	100,598	203,371	298,111	193,366	65,556	110,579	384,513	370,306
	<b>CUMMULATIVE (SHORTFALL) IN RESERVES</b>	211,765	(125,260)	(499,862)	(562,366)	(726,118)	(983,026)	(1,133,541)	(1,154,532)	(1,218,763)	(1,555,074)	(1,875,250)

**TAY VALLEY TOWNSHIP**

**10 YEAR CAPITAL PLAN**

2023 TO 2033

Inflation = 4%

**WASTE**

Equipment

	Replacement Cost (at 2022/23)	Year	2023	1 2024	2 2025	3 2026	4 2027	5 2028	6 2029	7 2030	8 2031	9 2032	10 2033
Waste Compactor - GT (2023)	41,000	2038											
Additional Compactor at GTWS (possibility of refurbished)	47,500	2023	47,500										
Waste Compactor - GT (2011)	41,000	2031									54,120		
Waste Compactor - SV (2005)	41,000	2030								52,480			
Waste Compactor - Mab (2003)	41,000	2028						49,200					
Sea Container	9,000	2038											
Sea Container <i>*for re-use centre large furniture items</i>	9,000	2023	9,000										

Other

Waste Site new wells <i>*provisional - as needed basis</i>	10,000	2023	10,000										
Waste Site Glen Tay trees <i>*possible replace/moving</i>	5,000	2023	5,000										
Establishing E. Limit of WE and placement of Final Cover along Harper Road	30,000	2023	30,000										
Operations Layout for Waste Sites	40,000	2024/25		10,400	32,800								

	314,500		101,500	10,400	32,800	0	0	49,200	0	52,480	54,120	0	0
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**Potential Funding:**

Reserves - Waste			46,500	0	0	0	0	49,200	0	52,480	54,120	0	0
Reserves - Contingency			50,250	10,400	32,800								
Development Charges			4,750	0	0	0	0	0	0	0	0	0	0
<b>Total</b>			<b>101,500</b>	<b>10,400</b>	<b>32,800</b>	<b>0</b>	<b>0</b>	<b>49,200</b>	<b>0</b>	<b>52,480</b>	<b>54,120</b>	<b>0</b>	<b>0</b>

**CUMMULATIVE (SHORTFALL) IN RESERVES**

	5,400	10,786	16,387	22,213	28,272	(14,627)	(8,074)	(53,739)	(100,771)	(93,400)	(85,734)
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# 10-Year Capital Plan

10 YEAR CAPITAL PLAN  
2023 TO 2033

Inflation = 4%

	Replacement		2023	1 2024	2 2025	3 2026	4 2027	5 2028	6 2029	7 2030	8 2031	9 2032	10 2033	
	Cost (at 2022/23)	Year												
<b>Recreation Assets</b>														
Burgess Hall, Garage, Ballfield	100,000	2027					116,000							"true" ball field: backstop, in field ground work, fencing, lighting, bleachers, signage, parking
O'Neil/Stalleyville Park	40,000	2026			44,800									name signage, kiosk, picnic table, fencing
Forest Trail Park	231,947	2044												
Black Lake Water Access Point	150,000	2029						62,000	64,000	66,000				parks plan consultant (2029), implement plan (2030/31): paths & clearing, dock, picnic tables, kiosk, name sign, bike rack, garbage can, parking lot
Maberly Community Park & Tennis Court	144,000	2043	20,000											
Maberly Hall & Garage	50,000	2026			56,000									parks plan - for land behind Maberly Hall
Maberly Rink	100,000	2034												
Little Silver Lake	50,000	2032									68,000			fill for parking, signage, etc.
Noonan Access Point	25,000	2024		26,000										name signage, kiosk, bike rack, picnic table, road work/parking
Glen Tay Swimming Area	28,392	2042	2,500											
John Miller Park	7,032	2041												
Fallbrooke Playground & Ball Field	75,000	2028						90,000						"true" ball field: backstop, in field ground work, fencing, bleachers, signage, parking
Mississippi Water Access Point	25,000	2025			27,000									name signage, kiosk, bike rack, picnic table, road work/parking
Maberly Fall River Park	22,624	2041												
Farren Lake	50,000	2033											70,000	
Otty Lake Boat Launch	10,000	2023	10,000											
Parks Plan - land behind Maberly Hall	30,000	2026				33,600								undertake a parks plan for the land behind Maberly Community Hall
			32,500	26,000	27,000	134,400	116,000	90,000	62,000	64,000	66,000	68,000	70,000	
<b>Funding:</b>														
Reserves - Recreation Capital	20,000		20,000	24,940	25,940	106,400	113,353	87,353	31,000	64,000	66,000	68,000	70,000	
Parkland	12,500													
Development Charges	-			1,060	1,060	28,000	2,647	2,647	31,000					
Total			32,500	26,000	27,000	134,400	116,000	90,000	62,000	64,000	66,000	68,000	70,000	
<b>CUMMULATIVE (SHORTFALL) IN RESERVES</b>			197,284	216,861	237,217	178,966	115,688	80,412	103,573	95,900	88,480	81,404	74,764	

TAY VALLEY TOWNSHIP														
10 YEAR CAPITAL PLAN														
2023 TO 2033														
		Inflation =		4%										
		Repair/Replacement		0	1	2	3	4	5	6	7	8	9	10
Other Assets		Cost (at 2022)	Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
<b>IT Assets</b>														
	Server Replacement	68,000	2023	68,000										
	Computer Server 1 (shared)	60,000	2029							74,400				
	Computer Work Stations	39,000	2027					45,240						
	Livestreaming	20,000	2024		20,800									
	Phone System	25,000	2023	25,000										35,000
	Fall River Room - IT upgrade	15,000	2027					17,400						
	Website Upgrade	20,000	2026				22,400							
<b>Office Equipment</b>														
	Office Furniture	10,000	2023	10,000	10,400									
<b>OTHER</b>														
	Official Plan (every 5 years)	60,000	2027					69,600					81,600	
	Official Plan Review - comprehensive growth management	35,000	2023	35,000										
	Comprehensive Zoning By-Law Review (after the OP)	50,000	2024	25,000	27,000					62,000				
	Development Charge Study (every 5 years)	40,000	2024		41,600					49,600				
	Election (every 4 years)	40,000	2026				44,800				51,200			
	Strategic Plan (after each election)	15,000	2027					17,400				19,800		
	Functional Assessment of Public Works Depts	40,000	2026				44,800							
	AMP - July 2022 deadline	7,376	2023	7,376										
	AMP Continuation - portion not funded by grant	18,500	2023	18,500										
	AMP Continuation - July 2025 compliant	25,000	2024/25		6,500	20,500								
	Economic Development & Tourism Action Plan	50,000	2024		52,000									
	Building Condition Assessments	30,000	2027/28					8,700	27,300					
	ARO (Asset Retirement Obligations)	35,000	2024		36,400									
	Budgeting Software	35,000	2026				39,200							
	Entrance Signs to the Township (design & production)	20,000	2025			21,600								
				188,876	194,700	42,100	151,200	158,340	27,300	186,000	51,200	19,800	81,600	35,000
<b>Funding:</b>														
	Reserve Funds			79,626	146,350	42,100	151,200	158,340	27,300	186,000	51,200	19,800	81,600	35,000
	Contingency			103,000										
	Grant													
	Development Charges			6,250	48,350									
	<b>Total</b>			<b>188,876</b>	<b>194,700</b>	<b>42,100</b>	<b>151,200</b>	<b>158,340</b>	<b>27,300</b>	<b>186,000</b>	<b>51,200</b>	<b>19,800</b>	<b>81,600</b>	<b>35,000</b>
	<b>CUMMULATIVE (SHORTFALL) IN RESERVES</b>			78,450	8,420	45,692	(22,961)	(95,452)	(33,469)	(126,615)	(81,247)	(616)	103,833	212,459

# REPORTS

**TAY VALLEY TOWNSHIP**

**10 YEAR CAPITAL PLAN  
2023 TO 2033**

**RESERVES - INCLUDING ADDITIONAL \$105,204 FROM 2023 BUDGET**

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
<b>Vehicles &amp; Equipment = Roads Equipment + New Infrastructure</b>												
Opening	355,809	546,714	292,622	343,226	429,511	177,436	(59,745)	(176,465)	195,106	(27,740)	132,591	(80,754)
Annual Contribution	239,106	293,658	305,404	317,620	330,325	343,538	357,280	371,571	386,434	401,891	417,967	434,686
Annual Spending	(48,201)	(547,750)	(254,800)	(231,336)	(582,400)	(580,719)	(474,000)	0	(609,280)	(241,560)	(631,312)	(819,000)
Closing	546,714	292,622	343,226	429,511	177,436	(59,745)	(176,465)	195,106	(27,740)	132,591	(80,754)	(465,068)
<b>Bridge Construction</b>												
Opening	382,213	180,182	291,337	147,252	(264,221)	(309,701)	(25,897)	122,826	219,065	(265,194)	68,643	277,821
Annual Contribution	193,443	256,181	266,428	277,085	288,169	299,696	311,683	324,151	337,117	350,601	364,625	379,210
Annual Spending	(395,474)	(145,026)	(410,513)	(688,559)	(333,648)	(15,892)	(162,960)	(227,912)	(821,376)	(16,764)	(155,448)	0
Closing	180,182	291,337	147,252	(264,221)	(309,701)	(25,897)	122,826	219,065	(265,194)	68,643	277,821	657,031
<b>Road Construction (Paved &amp; Gravel)</b>												
Opening	955,337	758,886	816,066	240,814	395,862	555,908	116,499	112,985	(440,078)	(606,202)	(686,782)	(284,322)
Annual Contribution	451,249	469,298	836,470	869,929	904,726	940,915	978,551	1,017,694	1,058,401	1,100,737	1,144,767	1,190,558
Annual Spending	(647,700)	(412,118)	(1,411,722)	(714,881)	(744,680)	(1,380,324)	(982,065)	(1,570,757)	(1,224,525)	(1,181,317)	(742,307)	(766,127)
Closing	758,886	816,066	240,814	395,862	555,908	116,499	112,985	(440,078)	(606,202)	(686,782)	(284,322)	140,109
<b>Buildings = Township Office/Garage + Burgess Hall/Garage + Sherbrooke Garage + Salt Sheds + Maberley Hall</b>												
Opening	345,715	378,279	211,765	(125,260)	(499,862)	(562,366)	(726,118)	(983,026)	(1,133,541)	(1,154,532)	(1,218,763)	(1,555,074)
Annual Contribution	32,564	33,866	35,221	36,629	38,095	39,618	41,203	42,851	44,565	46,348	48,202	50,130
Annual Spending	0	(200,380)	(372,245)	(411,232)	(100,598)	(203,371)	(298,111)	(193,366)	(65,556)	(110,579)	(384,513)	(370,306)
Closing	378,279	211,765	(125,260)	(499,862)	(562,366)	(726,118)	(983,026)	(1,133,541)	(1,154,532)	(1,218,763)	(1,555,074)	(1,875,250)
<b>Waste = Waste Site</b>												
Opening	50,376	46,721	5,400	10,786	16,387	22,213	28,272	(14,627)	(8,074)	(53,739)	(100,771)	(93,400)
Annual Contribution	3,225	5,179	5,386	5,602	5,826	6,059	6,301	6,553	6,815	7,088	7,371	7,666
Annual Spending	(6,880)	(46,500)	0	0	0	0	(49,200)	0	(52,480)	(54,120)	0	0
Closing	46,721	5,400	10,786	16,387	22,213	28,272	(14,627)	(8,074)	(53,739)	(100,771)	(93,400)	(85,734)
<b>Land Improvements = Recreation Capital</b>												
Opening	187,615	181,680	197,284	216,861	237,217	178,966	115,688	80,412	103,573	95,900	88,480	81,404
Annual Contribution	39,015	42,804	44,516	46,297	48,149	50,075	52,078	54,161	56,327	58,580	60,923	63,360
Annual Spending	(44,949)	(27,200)	(24,940)	(25,940)	(106,400)	(113,353)	(87,353)	(31,000)	(64,000)	(66,000)	(68,000)	(70,000)
Closing	181,680	197,284	216,861	237,217	178,966	115,688	80,412	103,573	95,900	88,480	81,404	74,764
<b>Other Assets = Office Equip + Official Plan/Zoning Reserves + Election+ Asset Management</b>												
Opening	141,976	84,692	78,450	8,420	45,692	(22,961)	(95,452)	(33,469)	(126,615)	(81,247)	(616)	103,833
Annual Contribution	36,934	73,384	76,319	79,372	82,547	85,849	89,283	92,854	96,568	100,431	104,448	108,626
Annual Spending	(94,218)	(79,626)	(146,350)	(42,100)	(151,200)	(158,340)	(27,300)	(186,000)	(51,200)	(19,800)	0	0
Closing	84,692	78,450	8,420	45,692	(22,961)	(95,452)	(33,469)	(126,615)	(81,247)	(616)	103,833	212,459

**TOTALS with Federal Gas Tax & Development Charges NOT included**

Opening	2,419,041	2,177,154	1,892,924	842,099	360,586	39,496	(646,754)	(891,364)	(1,190,564)	(2,092,754)	(1,717,217)	(1,550,492)
Annual Contribution	995,536	1,174,370	1,569,745	1,632,535	1,697,836	1,765,749	1,836,379	1,909,835	1,986,228	2,065,677	2,148,304	2,234,236
Annual Spending	(1,237,423)	(1,458,600)	(2,620,570)	(2,114,048)	(2,018,926)	(2,451,999)	(2,080,990)	(2,209,034)	(2,888,418)	(1,690,140)	(1,981,579)	(2,025,432)
Closing	2,177,154	1,892,924	842,099	360,586	39,496	(646,754)	(891,364)	(1,190,564)	(2,092,754)	(1,717,217)	(1,550,492)	(1,341,688)

**Federal Gas Tax**

Opening	637,577	533,373	41,419	0	0	0	0	0	0	0	0	0
Annual Contribution	195,796	187,478	187,478	187,478	187,478	187,478	187,478	187,478	187,478	187,478	187,478	187,478
Annual Spending	(300,000)	(679,432)	(228,897)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)	(187,478)
Closing	533,373	41,419	0	0	0	0	0	0	0	0	0	0

**Development Charge Reserve**

Opening	212,289	276,199	(131,251)	(24,811)	84,727	187,495	294,024	399,357	476,971	586,941	648,521	763,521
Annual Contribution	191,146	175,000	166,250	149,625	134,665	115,000	115,000	115,000	115,000	115,000	115,000	115,000
Annual Spending	(127,237)	(582,450)	(59,810)	(40,086)	(31,898)	(8,470)	(9,667)	(37,386)	(5,030)	(53,420)	0	(126,448)
Closing	276,199	(131,251)	(24,811)	84,727	187,495	294,024	399,357	476,971	586,941	648,521	763,521	752,073

**TOTALS with Federal Gas Tax & DC included**

Opening	3,268,907	2,986,726	1,803,092	817,288	445,313	226,991	(352,730)	(492,007)	(713,593)	(1,505,813)	(1,068,696)	(786,972)
Annual Contribution	1,382,478	1,536,848	1,923,473	1,969,638	2,019,979	2,068,227	2,138,857	2,212,313	2,288,706	2,368,155	2,450,782	2,536,714
Annual Spending	(1,664,660)	(2,720,482)	(2,909,277)	(2,341,612)	(2,238,302)	(2,647,948)	(2,278,135)	(2,433,898)	(3,080,926)	(1,931,039)	(2,169,057)	(2,339,358)
Closing	2,986,726	1,803,092	817,288	445,313	226,991	(352,730)	(492,007)	(713,593)	(1,505,813)	(1,068,696)	(786,972)	(589,616)