

**COMMITTEE OF THE WHOLE**  
**September 7<sup>th</sup>, 2021**

**Report #FIN-2021-15**  
**Richard Bennett, Acting Treasurer**

**10 YEAR CAPITAL PLAN**  
**(2021-2031)**

## **STAFF RECOMMENDATION(S)**

It is recommended:

**“THAT**, the 10 Year Capital Plan (2021-2031) be adopted.”

## **BACKGROUND**

Prudent fiscal management requires planning for future capital purchases and how those expenditures are to be funded. The forecasts are key components of the Township’s fiscal management program and will help aid future Development Charge Studies and the Municipal Tangible Capital Asset Plan. This plan is to be reviewed annually and will be used to assist with budgeting for the next fiscal year.

## **DISCUSSION**

The plan has been organized as follows:

- **Summary**
- **Vehicles & Equipment**
- **Bridges**
- **Roads**
- **Gravel to Surface Treatment**
- **Buildings**
- **Other Assets**
- **Reserve Projections**
- **Un-Assumed Roads**

It is important to note that the Gravel to Surface Treatment schedule has now been added into the 10-year Capital Plan with the recommendation to start converting 2km of gravel to surface treatment each year. The Public Works Manager is currently placing the traffic counter on these roads to identify the priorities. The Un-Assumed Roads schedule is

currently not built into the costs for the 10-year Capital Plan and is included for information purposes (based on previous requests from Council).

The bi-annual bridge review and report will be completed in 2022. This capital plan is based on the previous report completed in 2020.

The Township is awaiting completion of the building condition assessments on all Township owned buildings. Once this project is completed, the results will be incorporated into the 10-year capital plan. At this time the buildings capital schedule remains blank.

Each schedule has an inflation rate of 2% per year built into the estimated costs of acquiring these assets.

The Township has a capitalization threshold of \$20,000 for vehicles and equipment and \$50,000 for linear assets, bridges and buildings so that individual capital assets of lesser value are expensed in the year as an operational expense. These items are not included in the 10 Year Capital Plan.

The capital purchases are funded primarily by reserves and grants. This plan does include the use of development charge revenues, gas tax revenues, and specific capital reserve funds. No new debt is being proposed.

It is imperative that the Township continue to contribute funds to capital reserves each year and to increase those contributions to reserves by the same (2%) inflation of costs. The Township should continue investing in capital projects in order to save and monitor operating costs (i.e.: annual vehicle repair costs and annual cold patch costs).

The 2021 budget included \$1,158,464 in contributions to reserve funds for future capital projects. The attached plan increases that contribution in 2022 to \$1,181,633. (\$23,169 or a 0.38% levy increase). Also, as the plan has a built-in inflation rate on the cost of capital projects, it also suggests an annual increase of 2% in the contributions to the capital reserve accounts.

## **OPTIONS TO BE CONSIDERED**

As noted earlier, this plan has built in the costs of converting 2km of gravel roads to surface treatment each year for the next 5 years (page 9). The Reserves schedule (page 12) projects that these extra costs will drive the Road Construction Reserve to a negative balance by 2024. Council should consider a one time increase in the contribution to this reserve of \$150,000 (2.48% levy increase) to cover these extra costs. Another option is to increase this contribution before the 2024 budget if no road construction grants materialize before that time.

The costs associated with assuming private un-assumed roads are not built into the 10 Year Capital Plan and these costs could drive the annual requirements for reserve funds out of reach and would add to the annual operating costs of the Public Works Department. However, the newly formed Private Unassumed Roads Working Group may explore this as a potential option for some roads.

This 10-year capital plan has been updated to include funding from Development Charges which have been identified in the current update to the Township Development Charge Study presented to Council earlier this evening.

### **CLIMATE CONSIDERATIONS**

Staff have taken into consideration costs related to the acquisition of assets where climate change alternatives may be considered.

### **STRATEGIC PLAN LINK**

The Strategic Plan and Council priorities could have some effects on future capital projects and staff suggests that this plan be reviewed annually and updated for any changes to capital plans and the estimated cost of each project.

### **FINANCIAL CONSIDERATIONS**

The plan points out the need to increase the contributions to reserves in the annual budget process.

Items in this 10-year capital plan are still subject to budget approval.

### **CONCLUSIONS**

The projects in this 10 Year Capital Plan can be completed with annual increases to the contributions to reserves, usage of federal gas tax money, and utilization of development charges (when applicable).

### **ATTACHMENTS**

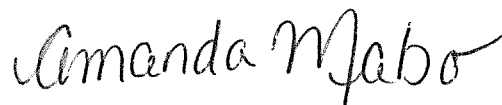
- i) 10 Year Capital Plan (2022 to 2031)

**Prepared and Submitted By:**



**Richard Bennett,  
Acting Treasurer**

**Approved for Submission By:**



**Amanda Mabo,  
Acting Chief Administrative Officer/Clerk**



Tay Valley Township

**10 YEAR  
CAPITAL PLAN**

**2021 TO 2031**

September 2021

TAY VALLEY TOWNSHIP		SUMMARY											
10 YEAR CAPITAL PLAN													
2022 TO 2031													
		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
<b>Vehicles &amp; Equipment</b>	Expenses	303,509	582,350	88,400	508,800	135,000	451,000	0	353,400	40,600	365,800	219,600	
	Reserves	Funding	(292,139)	(451,350)	(88,400)	(508,800)	(135,000)	(451,000)	0	(353,400)	(40,600)	(365,800)	(219,600)
	Development Charges	Funding	(11,370)	(131,000)	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	328,900	356,082	127,920	305,280	678,240	303,600	16,800	147,060	218,080	710,124	0	
	Bridge Reserve	Funding	(328,900)	(356,082)	(127,920)	(305,280)	(348,829)	(303,600)	(16,800)	(147,060)	(218,080)	(510,124)	0
	Gas Tax Funds	Funding	0	0	0	0	(300,000)	0	0	0	0	(200,000)	0
	Development Charges	Funding	0	0	0	0	(29,411)	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	438,230	1,206,970	1,094,960	923,580	954,480	1,031,253	583,280	794,940	765,440	1,150,410	586,200	
	Roads Reserve	Funding	(59,090)	(780,980)	(638,464)	(573,580)	(753,936)	(704,143)	(323,536)	(482,126)	(674,492)	(793,974)	(302,496)
	OCIF	Funding	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)
	Gas Tax Funds	Funding	(179,666)	(300,000)	(300,000)	(300,000)	(100,000)	(200,000)	(200,000)	(200,000)	0	(200,000)	(191,944)
	Development Charges	Funding	(149,474)	(75,990)	(106,496)	0	(50,544)	(77,110)	(9,744)	(62,814)	(40,948)	(106,436)	(41,760)
	Current Year Levy	Funding	0	0	0	0	0	0	0	0	0	0	0
<b>Other Assets (IT, Equipment, Recreation)</b>		242,462	203,400	72,800	364,640	86,400	44,000	67,200	0	162,400	47,200	0	
	Reserves	Funding	(172,324)	(203,400)	(69,611)	(301,932)	(83,273)	(44,000)	(50,400)	0	(101,500)	(44,840)	0
	Grants	Funding	0	0	0	0	0	0	0	0	0	0	0
	Development Charges	Funding	(70,138)	0	(3,189)	(62,708)	(3,127)	0	(16,800)	0	(60,900)	(2,360)	0
	Current Year Levy	Funding	0	0	0	0	0	0	0	0	0	0	0
<b>Gravel Roads</b>	Expenses	0	244,800	249,600	254,400	259,200	264,000	0	0	0	0	0	
	Roads Reserve	Funding	0	(172,266)	(175,644)	(179,021)	(182,399)	(185,777)	0	0	0	0	0
	Development Charges	Funding	0	(72,534)	(73,956)	(75,379)	(76,801)	(78,223)	0	0	0	0	0
	Current Year Levy	Funding	0	0	0	0	0	0	0	0	0	0	0
<b>TOTALS</b>													
	Expenditures	Expenses	1,313,101	2,593,602	1,633,680	2,356,700	2,113,320	2,093,853	667,280	1,295,400	1,186,520	2,273,534	805,800
	Reserve Funds Used	Funding	(852,453)	(1,964,078)	(1,100,039)	(1,868,613)	(1,503,438)	(1,688,520)	(390,736)	(982,586)	(1,034,672)	(1,714,738)	(522,096)
	Development Charges	Funding	(230,982)	(279,524)	(183,641)	(138,087)	(159,882)	(155,333)	(26,544)	(62,814)	(101,848)	(108,796)	(41,760)
	Grants	Funding	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)
	Gas Tax Funds	Funding	(179,666)	(300,000)	(300,000)	(300,000)	(400,000)	(200,000)	(200,000)	(200,000)	0	(400,000)	(191,944)
	Current Year Levy	Funding	0	0	0	0	0	0	0	0	0	0	0

<b>TAY VALLEY TOWNSHIP</b>														
<b>10 YEAR CAPITAL PLAN</b>		Inflation = 2%												
<b>2022 TO 2031</b>		<b>Replacement</b>			<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
	<b>Cost (at 2021)</b>	<b>Year</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	
<b>VEHICLES &amp; EQUIPMENT</b>														
<b>Tandem Trucks</b>														
T1	2016 Western Star Tandem (#1)	310,000	2028								353,400			
T2	2019 International Tandem Dump Truck (#2)	310,000	2030										365,800	
20-2	2020 Freightliner Tandem Dump Truck	310,000	2032											
20-3	2021 Freightliner Tandem Dump Truck	310,000	2034											
T12	2012 International Tandem 7600 6X4 (#12)	310,000	2024			328,600								
T17	2014 International Tandem 7600 Truck (#17)	310,000	2026						341,000					
<b>Light Trucks</b>														
20-1	2020 Chevrolet Silverado	35,000	2029									40,600		
T6	2016 Ford F550 (#6)	100,000	2026						110,000					
T11	2011 Chev Silverado 4X4 3/4 ton (#11)	35,000	2025					37,800						
T14	2012 Dodge RAM 1500 (#14)	35,000	2023			36,400								
T16	2013 Mitsubishi-CBO (#16) (Planning)	35,000	2022		35,700									
<b>EQUIPMENT</b>														
<b>Heavy Equipment</b>														
19-1	2018 John Deere Backhoe 310SL (#19-1)	160,000	2031											192,000
E13	2007 Volvo Grader G960 (#13)	395,000	2022		402,900									
E15	2012 CASE Backhoe (#15)	170,000	2024				180,200							
E71	2009 Komatsu Backhoe (#71)	NOT SCHEDULED FOR REPLACEMENT - BACKHOE MOVES FROM ROADS TO WASTE SITE AT TIME OF REPLACEMENT												
E80	2018 John Deere 770M Grader (#80)	395,000	2033											
	Tractor with Flail and Boom Mower (New Add)	247,175	2021	247,175										
	Water Tank No.	39,137	2021	39,137										
	Water Tank No.	40,000	2025					43,200						
<b>Light Equipment - (Yearly Input)</b>														
	1990 Steamers (quantity 2)	20,000	2025					21,600						
E82	1998 Brush Chipper	50,000	2023			52,000								
E87	2021 Eddyner Sweeper	17,197	2021	17,197										
E89	Brush Head (#89)-Bathurst	30,000	2025					32,400						
	Emergency Response Trailer	12,500	2022		12,750									
	Front Flail Grass Mower	23,000	2031											27,600
	Boom Brush Mower	98,000	2036											
<b>Fire Services</b>														
	Pumper Truck		2022		54,000									
	Deputy Chief Vehicle		2022		27,000									
	South Sherbrooke Pumper Truck		2022		50,000									
		<b>3,797,009</b>		<b>303,509</b>	<b>582,350</b>	<b>88,400</b>	<b>508,800</b>	<b>135,000</b>	<b>451,000</b>	<b>0</b>	<b>353,400</b>	<b>40,600</b>	<b>365,800</b>	<b>219,600</b>
<b>Funding:</b>														
	<b>Reserves</b>			<b>292,139</b>	<b>451,350</b>	<b>88,400</b>	<b>508,800</b>	<b>135,000</b>	<b>451,000</b>	<b>0</b>	<b>353,400</b>	<b>40,600</b>	<b>365,800</b>	<b>219,600</b>
	<b>Development Charges</b>			<b>11,370</b>	<b>131,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Total</b>			<b>303,509</b>	<b>582,350</b>	<b>88,400</b>	<b>508,800</b>	<b>135,000</b>	<b>451,000</b>	<b>0</b>	<b>353,400</b>	<b>40,600</b>	<b>365,800</b>	<b>219,600</b>

TAY VALLEY TOWNSHIP																
10 YEAR CAPITAL PLAN																
2022 TO 2031																
BRIDGES	STRUCTURE NO.	Description	Inflation 2%			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
			Repair/Replacement		Year											
			Engineering Design Costs (at 2021)	Construction Cost (at 2021)	Year											
		Various Repairs & Guard Rails														
	15-A04	9th Concession Road														
	15-092	Adam's Mill Road	15,000	115,000	2028						16,800	131,100				
	15-A01	Allan's Mill Road			2021	312,000										
	15-051	Anderson Road	36,000	276,000	2026				38,880	303,600						
	C15-A02	Anglican Church Road Culvert														
	15-159	Black Lake Road														
	15-072	Bolingbroke Bridge (Crow Lake)														
	15-093	Bowes Side Road	75,000	592,000	2025			79,500	639,360							
	C15-A03	Doran Road Culvert	84,000	601,800	2030								97,440	710,124		
	15-075	Doran Road (Fall River Bridge)	14,000	104,000	2029							15,960	120,640			
	15-050	Ennis Road														
	15-076	Gambles Side Road	33,000	213,000	2024			34,320	225,780							
	15-094	Glen Tay Road														
	C15-096	Glen Tay Road Open Footing Culvert	10,000	90,000	2023		10,200	93,600								
	15-139	Haughians Road														
	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	16,900	274,482									
	15-089	Upper Scotch Line Road Culvert														
	15-095	Upper Scotch Line Road Bridge														
	15-090	Upper Scotch Line <i>Newly Identified 2016</i>														
		5th Concession Culvert Replacement		70,000	2022		71,400									
						<b>328,900</b>	<b>356,082</b>	<b>127,920</b>	<b>305,280</b>	<b>678,240</b>	<b>303,600</b>	<b>16,800</b>	<b>147,060</b>	<b>218,080</b>	<b>710,124</b>	<b>0</b>
		<b>Funding:</b>														
		Bridges Reserve				<b>328,900</b>	<b>356,082</b>	<b>127,920</b>	<b>305,280</b>	<b>348,829</b>	<b>303,600</b>	<b>16,800</b>	<b>147,060</b>	<b>218,080</b>	<b>510,124</b>	<b>0</b>
		Federal Gas Tax							<b>300,000</b>					<b>200,000</b>		
		Development Charges							<b>29,411</b>							
		<b>Total</b>				<b>328,900</b>	<b>356,082</b>	<b>127,920</b>	<b>305,280</b>	<b>678,240</b>	<b>303,600</b>	<b>16,800</b>	<b>147,060</b>	<b>218,080</b>	<b>710,124</b>	<b>0</b>

TAY VALLEY TOWNSHIP															
10 YEAR CAPITAL PLAN															
2022 TO 2031															
ROADS	KMS	Last Work	Inflation = 2%		LEGEND: Pavement Presevation Reconstruction										
			Repair/Replacement Cost (at 2021)	Year	0 2021	1 2022	2 2023	3 2024	4 2025	5 2026	6 2027	7 2028	8 2029	9 2030	10 2031
Deficiencies Elimination Prgm					30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Road Condition Assessment			16,500	2022		16,830					18,150				19,470
<b>SURFACE TREATMENT (LCB)</b>															
L Allan's Side Road	1.808	2021	75,500	2021	75,500										
L Anglican Church Road	3.343	2008	141,000	2022		143,820									
L Armstrong Line	2.571	2018	447,000	2030											527,460
L Ashby Road	0.462	-	87,000	2027							97,440				
L Bathurst 7th Concession	2.374	-	406,000	2025					438,480						
L Cameron Side Road (2)	3.600	-	745,000	2022		759,900									
L Crow Lake Road	2.938	2008	551,000	2028								628,140			
Crozier Road	1.095	2009	49,000	2029									56,840		
L Iron Mine Road	1.025	-	46,000	2029									53,360		
L McVeigh Road	0.384	-	62,000	2025					66,960						
L Menzies Munro Side Road	2.568	2018	455,000	2030											536,900
L Merkley Road	0.273	-	8,000	2021	8,000										
L Powers Road	2.190	2018	97,000	2025					104,760						
L Ritchie Side Road	0.887	2009	40,000	2029									46,400		
L Stanley Road	1.888	2018	353,000	2029									409,480		
L Stanleyville Road	1.870	2020	348,000	2031											417,600
L Upper Scotch Line (2)	4.150	2021	192,730	2026	192,730						212,003				
L Walters Lane	0.093	-													
L Zealand Road (2)	4.196	2008	701,000	2022/26		47,000					771,100				
<b>PAVED (HCB)</b>															
H Brooke Valley Road	0.363	-	113,000	2025					122,040						
H Bygrove Lane	0.695	2012	32,000	2029									37,120		
L Christie Lake North Shore Road (2)	2.592	-	120,000	2028								136,800			
H Clarchris Road	0.682	2016	31,000	2030										36,580	
H Crozier Road	2.240	2009	99,000	2029									114,840		
H Glenn Drive	0.882	-	164,000	2027								183,680			
H Glen Tay Road (Hwy 7 to CR 6)	0.419	-	132,000	2021	132,000										
Glen Tay Road (CR6 to CR10)	2.928	2007	171,000	2022		174,420									
Harper Road (1)	3.757	2015	166,000	2022/27		35,000						185,920			
H Harper Road (2)	2.612	-	677,000	2023			704,080								
H Keays Road	1.334	-	347,000	2023			360,880								
H Lakewood Road	1.916	1987	413,000	2024				437,780							
H Maberly Main Street	0.301	-													
H McLaren Road	2.011	1997	430,000	2024				455,800							
H Muttons Road	0.524	2016	12,000	2027								13,440			
H Norris Road	0.154	2016	8,000	2027								8,960			
H Old Brooke Road	0.442	-	140,000	2025					151,200						
H Orchard Crescent	0.846	2001	38,000	2025					41,040						
H Otty Lake Side Road (shared)	4.222	2018	115,500	2031											138,600
H Posner Lane	0.344	2012	15,000	2029									17,400		
H Stanleyville Road (1)	1.263	2009	57,000	2027								63,840			
	79.373				<b>438,230</b>	<b>1,206,970</b>	<b>1,094,960</b>	<b>923,580</b>	<b>954,480</b>	<b>1,031,253</b>	<b>583,280</b>	<b>794,940</b>	<b>765,440</b>	<b>1,150,410</b>	<b>586,200</b>
<b>Funding:</b>															
OCIF - Formula Based Funding					50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Development Charges (10% of Constuction)					149,474	75,990	106,496	0	50,544	77,110	9,744	62,814	40,948	106,436	41,760
Federal Gas Tax					179,666	300,000	300,000	300,000	100,000	200,000	200,000	200,000	0	200,000	191,944
Other Grants															
Roads Reserve					59,090	780,980	638,464	573,580	753,936	704,143	323,536	482,126	674,492	793,974	302,496
<b>Total</b>					<b>438,230</b>	<b>1,206,970</b>	<b>1,094,960</b>	<b>923,580</b>	<b>954,480</b>	<b>1,031,253</b>	<b>583,280</b>	<b>794,940</b>	<b>765,440</b>	<b>1,150,410</b>	<b>586,200</b>

Note: This schedule does not include all Township Roads - only those with Capital Improvement plans in the next 10 years.



TAY VALLEY TOWNSHIP					10 YEAR CAPITAL PLAN 2022 TO 2031											
					Inflation = 2%											
		KMS	Last Work	Repair/Replacement Cost (at 2021)	Year	0 2021	1 2022	2 2023	3 2024	4 2025	5 2026	6 2027	7 2028	8 2029	9 2030	10 2031
<b>GRAVEL TO SURFACE TREATMENT</b>																
?		2.000		240,000	2022		244,800									
?		2.000		240,000	2023			249,600								
?		2.000		240,000	2024				254,400							
?		2.000		240,000	2025					259,200						
?		2.000		240,000	2026						264,000					
						<b>0</b>	<b>244,800</b>	<b>249,600</b>	<b>254,400</b>	<b>259,200</b>	<b>264,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Development Charges (29.63%)						0	72,534	73,956	75,379	76,801	78,223	0	0	0	0	0
Federal Gas Tax																
Other Grants																
Roads Reserve						0	172,266	175,644	179,021	182,399	185,777	0	0	0	0	0
<b>Total</b>						<b>0</b>	<b>244,800</b>	<b>249,600</b>	<b>254,400</b>	<b>259,200</b>	<b>264,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Roads To Be Considered:</b>																
Long Lake Rd	Narrows Lock Rd	Elm Grove Rd	4.9	588,000												
Miners Point Rd	Narrows Lock Rd	Bass Bay Rd	3.6	432,000												
McVeigh Rd	Dokken	Bathurst 7th Conc.	4.4	528,000												
McVeigh Rd	Doran Rd	Dokken	3.7	444,000												
Doran Rd	Hwy 7	McViegh Rd	1.3	156,000												
Bathurst 5th	Hwy 7	Harper Rd	5.5	660,000												
Bathurst 5th	Harper Rd	Hwy 511	3.9	468,000												
			<u>27.3</u>													

<b>TAY VALLEY TOWNSHIP</b>														
<b>10 YEAR CAPITAL PLAN</b>														
<b>2022 TO 2031</b>		Inflation =	2%											
<b>BUILDINGS</b>		<b>Repair/Replacement</b>			1	2	3	4	5	6	7	8	9	10
		<b>Cost</b>	<b>Year</b>	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
<b>Year Aquired</b>														
1973/2010	Township office													
1995	Bathurst (Glen Tay) salt shed													
1973	Bathurst (Glen Tay) garage													
1973	Burgess garage													
2009	Burgess salt/sand shed													
1973	Maberly garage													
1973	Burgess Hall													
1884	Maberly Hall													
2010/2011	SS Fire Hall													
	Glen Tay Waste site shed													
	Maberly waste site shed													
	Stanleyville waste site shed													
	Glen Tay waste site barn													
	ReUse Centre (GeIn Tay)													
				0	0	0	0	0	0	0	0	0	0	0
	<b>Funding:</b>													
	Reserve Funds			0	0	0	0	0	0	0	0	0	0	0
	Development Charges			0	0	0	0	0	0	0	0	0	0	0
	Total			0	0	0	0	0	0	0	0	0	0	0

TAY VALLEY TOWNSHIP														
10 YEAR CAPITAL PLAN														
2022 TO 2031														
		Inflation = 2%												
		Repair/Replacement		1	2	3	4	5	6	7	8	9	10	
OTHER ASSETS		Cost (at 2021)	Year	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
<b>IT Assets</b>														
	Computer Server 2 (backup server)	30,000	2025					32,400						
	Computer Work Stations	39,000	2024			41,340								
	Website Upgrades	17,462	2021	17,462										
<b>Recreation Assets</b>														
	Solar Farm Trail	125,000	2021	30,000										grant / Covid Funds
	Otty Lake Boat Launch	40,000	2023		41,600									
	Maberly - Tennis Court, Outdoor Rinks, Playground Equip	75,000	2024			79,500								
	Solar Farm Trail - parks plan	60,000	2021	60,000										
	Unopened Road Allowance - Maberly (Township owned)	15,000	2021	15,000										(re-establish park - access, picnic table, garbage can, signage, parking)
	Glen Tay Swimming Hole	20,000	2021	20,000										(road widening, fencing, garbage can, signage, access, picnic table)
	Water Access - Noonan	20,000	2024			21,200								parking, etc.
	Water Access - Mississippi	20,000	2024			21,200								parking, etc.
	Ball Diamonds (unknown yet)	50,000	2025					54,000						
<b>Waste Site Assets</b>														
	Glen Tay Site Improvements	96,000	2022											full grant
	Establishing E. Limit of WS and placement of Final Cover along Harper Road	90,000	2022		91,800									this includes the development of construction drawings, surveying and placement of final
	Waste Management Study	49,000	2022											full grant
	Waste Compactor 1 - STV	50,000	2024				53,000							
	Waste Compactor 2 - GT	50,000	2029									58,000		
	Waste Compactor 3 - MAB	50,000	2024				53,000							
<b>OTHER</b>														
	Official Plan (every 5 years)	60,000	2021/22	30,000	30,000					67,200				
	Development Charges Update	10,000	2021	10,000										
	Comprehensive Zoning By-Law Review	50,000	2024				53,000					58,000		
	Development Charge Study (every 5 years)	40,000	2024				42,400					46,400		
	Functional Assessment of Public Works Depts	30,000	2023			31,200								
	Service Delivery Review	30,000	2021	30,000										
	Pay Equity	40,000	2022		40,800									
	Composition of Council	30,000	2021	30,000										
	Election (every 4 years)	40,000	2022		40,800				44,000				47,200	
				242,462	203,400	72,800	364,640	86,400	44,000	67,200	0	162,400	47,200	0
<b>Funding:</b>														
	<b>Reserve Funds</b>			172,324	203,400	69,611	301,932	83,273	44,000	50,400	0	101,500	44,840	0
	<b>Grant</b>													
	<b>Development Charges</b>			70,138	0	3,189	62,708	3,127	0	16,800	0	60,900	2,360	0
	<b>Total</b>			242,462	203,400	72,800	364,640	86,400	44,000	67,200	0	162,400	47,200	0

<b>TAY VALLEY TOWNSHIP</b>												
<b>10 YEAR CAPITAL PLAN</b>		<b>RESERVES PROJECTIONS</b>										
<b>2022 TO 2031</b>		<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>
<b>Vehicles &amp; Equipment = Roads Equipment + New Infrastructure Reserves</b>												
Opening		91,037	80,077	(84,471)	119,668	(90,743)	78,614	(61,941)	254,712	224,298	513,144	483,379
Annual Contribution		281,179	286,802	292,539	298,389	304,357	310,444	316,653	322,986	329,446	336,035	342,756
Annual Spending		(292,139)	(451,350)	(88,400)	(508,800)	(135,000)	(451,000)	0	(353,400)	(40,600)	(365,800)	(219,600)
Closing		80,077	(84,471)	119,668	(90,743)	78,614	(61,941)	254,712	224,298	513,144	483,379	606,534
<b>Bridge Construction</b>												
Opening		544,253	405,003	242,364	311,756	207,734	64,188	(30,023)	166,753	237,542	241,667	(41,808)
Annual Contribution		189,650	193,443	197,312	201,258	205,283	209,389	213,577	217,848	222,205	226,649	231,182
Annual Spending		(328,900)	(356,082)	(127,920)	(305,280)	(348,829)	(303,600)	(16,800)	(147,060)	(218,080)	(510,124)	0
Closing		405,003	242,364	311,756	207,734	64,188	(30,023)	166,753	237,542	241,667	(41,808)	189,374
<b>Road Construction</b>												
Opening		803,705	1,136,015	581,997	175,102	(162,142)	(674,813)	(1,132,596)	(1,015,352)	(1,047,882)	(1,263,787)	(1,590,002)
Annual Contribution		391,400	399,228	407,213	415,357	423,664	432,137	440,780	449,596	458,587	467,759	477,114
Annual Spending		(59,090)	(953,246)	(814,108)	(752,601)	(936,335)	(889,920)	(323,536)	(482,126)	(674,492)	(793,974)	(302,496)
Closing		1,136,015	581,997	175,102	(162,142)	(674,813)	(1,132,596)	(1,015,352)	(1,047,882)	(1,263,787)	(1,590,002)	(1,415,383)
<b>Federal Gas Tax</b>												
Opening		460,070	632,788	512,454	392,120	279,598	67,076	54,554	42,032	29,510	216,988	4,466
Annual Contribution		352,384	179,666	179,666	187,478	187,478	187,478	187,478	187,478	187,478	187,478	187,478
Annual Spending		(179,666)	(300,000)	(300,000)	(300,000)	(400,000)	(200,000)	(200,000)	(200,000)	0	(400,000)	(191,944)
Closing		632,788	512,454	392,120	279,598	67,076	54,554	42,032	29,510	216,988	4,466	0
<b>Development Charge Reserve</b>												
Opening		297,790	226,808	122,284	113,643	150,556	165,674	185,341	333,797	445,983	519,135	585,339
Annual Contribution		160,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000
Annual Spending		(230,982)	(279,524)	(183,641)	(138,087)	(159,882)	(155,333)	(26,544)	(62,814)	(101,848)	(108,796)	(41,760)
Closing		226,808	122,284	113,643	150,556	165,674	185,341	333,797	445,983	519,135	585,339	718,579
<b>Buildings = Township Office/Garage + Burgess Hall/Garage + Sherbrooke Garage + Salt Sheds + Maberley Hall + Improve Mun. Bldg Accessibility Reserves</b>												
Opening		406,594	443,620	481,387	519,908	559,201	599,279	640,158	681,856	724,387	767,769	812,018
Annual Contribution		37,026	37,767	38,522	39,292	40,078	40,880	41,697	42,531	43,382	44,249	45,134
Annual Spending		0	0	0	0	0	0	0	0	0	0	0
Closing		443,620	481,387	519,908	559,201	599,279	640,158	681,856	724,387	767,769	812,018	857,153
<b>Other Assets = Office Equip + Waste Sites + Cemetery + Recreation Equipment + Officia Plan/Zoning Reserves + Election</b>												
Opening		533,977	442,675	321,917	336,601	120,650	125,078	170,532	211,376	304,445	297,875	349,864
Annual Contribution		81,022	82,642	84,295	85,981	87,701	89,455	91,244	93,069	94,930	96,829	98,765
Annual Spending		(172,324)	(203,400)	(69,611)	(301,932)	(83,273)	(44,000)	(50,400)	0	(101,500)	(44,840)	0
Closing		442,675	321,917	336,601	120,650	125,078	170,532	211,376	304,445	297,875	349,864	448,630

**TAY VALLEY TOWNSHIP**

**10 YEAR CAPITAL PLAN  
2022 TO 2031**

**Assuming and Upgrading Unassumed Roads**

**UPDATED ON 2021-04-01 WITH 2021 BUDGET NUMBERS**

Road Name	From	To	Length (km)	Cost for Gravel (No Widening Rq)	Cost for Gravel (Widening Rq)	Cost for Surface Treatment (LCB)	Cost for Asphalt (HCB)	Yearly Operation Cost (Gravel)	Yearly Operation Cost (LCB/HCB)
Burke Lane	Old Burke Road	Pine Lane	2.1	\$ 21,500		\$ 312,000	\$ 395,200	\$ 12,064	\$ 9,984
Homestead Lane	Black Lake Road	Dead End	0.2		\$ 368,600			\$ 1,160	
Kilarny Lane	Christie Lake Road (CR#6)	Dead End	0.2		\$ 32,300			\$ 1,160	
Lakeshore Boulevard	Miner's Point Road (private)	Miner's Point Road	0.4		\$ 100,700			\$ 2,494	
Little Silver Lake Road	Bolingbroke Road (CR #36)	90 Little Silver Lake Road	1.9		\$ 533,900			\$ 11,252	
Maple Lane	Bolingbroke Road (CR #36)	Dean End	0.2	\$ 7,500		\$ 25,500	\$ 32,300	\$ 986	\$ 816
Meadow Lane Court	Burke Lane	Dead End	0.5	\$ 9,500		\$ 79,500	\$ 100,700	\$ 3,074	\$ 2,544
Miners Point Road	Miner's Point Road	Dead End	2.8		\$ 57,000			\$ 16,298	
Oak Court	Pine Lane	Dead End	0.2	\$ 85,500		\$ 22,500	\$ 28,500	\$ 870	\$ 720
Oak Road	Red Pine Road	Cul de sac	0.2	\$ 12,500		\$ 28,500	\$ 36,100	\$ 1,102	\$ 912
Old Mine Road	McVeigh Road	Dead End	0.3		\$ 123,500			\$ 1,740	
Pine Lane	Burke Lane	Scott Court	1.7	\$ 66,500		\$ 256,500	\$ 324,900	\$ 9,918	\$ 8,208
Pond Lane	Pond Road	Cul de sac	0.3	\$ 27,000		\$ 37,500	\$ 47,500	\$ 1,450	\$ 1,200
Pond Road	Red Pine Road	Cul de sac	0.7	\$ 47,000		\$ 97,500	\$ 123,500	\$ 3,770	\$ 3,120
Rainbow Lane	Bolingbroke Road (CR #36)	Cul de sac	1.3		\$ 60,800			\$ 7,714	
Rainbow Lane A	Rainbow Lane	Dead End	0.5		\$ 131,100			\$ 3,132	
Red Pine Lane	Red Pine Road	Cul de sac	0.9	\$ 95,000		\$ 141,000	\$ 178,600	\$ 5,452	\$ 4,512
Red Pine Road	Bolingbroke Road (CR #36)	Dead End	0.3	\$ 105,000		\$ 48,000	\$ 60,800	\$ 1,856	\$ 1,536
Scott Court	Burke Lane	At Civic Address 190	0.7	\$ 971,500		\$ 103,500	\$ 131,100	\$ 4,002	\$ 3,312
Sherbrooke Drive	Crow Lake Road	Dead End	1.9		\$ -			\$ 11,020	
Silvery Lane	Bolingbroke Road (CR #36)	Dead End	2.1		\$ -			\$ 12,180	
			19.4	\$ 1,448,500	\$ 1,407,900	\$ 1,152,000	\$ 1,459,200	\$ 112,694	\$ 36,864

**NOTES:**

			existing road base is "pretty good", therefore widening is not required, in this case there are 3 options for consideration
			1)- apply a lift of gravel and assume the road as a gravel road,
			2)- upgrade the road to a surface treated road and assume it and
			3)- upgrade the road to an asphalt road and assume it.
			the existing road base is insufficient and only one option is recommended, widen road and assume as a gravel road

**IMPORTANT** - None of the above costs are currently built into the 10 year Capital Plan.