2023 Asset Management Plan (Core Assets)

Township of Amaranth

R.J. Burnside & Associates Limited
15 Townline
Orangeville ON L9W 3R4 CANADA

April 19, 2023
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Record of Revisions

Revision	Date	Description
1	March 30, 2023	Draft Report
2	April 19, 2023	Final Report

R.J. Burnside & Associates Limited

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Executive Summary

This report contains the Asset Management Plan for the Township of Amaranth (Township) core assets. The report has been organized as follows:

- Section 1: Introduction;
- Section 2: State of Local Infrastructure;
- Section 3: Expected Levels of Service;
- Section 4: Asset Management Strategy;
- Section 5: Financing Strategy; and,
- Section 6: Recommendations.

The “state of local infrastructure” section provides an overview of the core capital assets owned by the Township. This includes detailed information on asset inventory, including asset attributes, accounting valuations, replacement costs, useful life, age, and asset condition. This information provides the foundation for other sections of the asset management plan.

Based on data provided by the Township and discussions with Township Staff, it is believed that the Township’s core assets including Water, Wastewater, Storm Water, Roads, and Bridges have a Good weighted average condition (with the weighting based on asset replacement cost) as outlined in the following assets table. Please note that weighted average conditions do not fully reflect the many assets that need to have capital improvement investments but provide an overall high-level perspective of all the assets found in that asset grouping/network.

Please note that Water core assets which are funded by system rate payers have been separated from the other tax-based core assets of Roads, Bridges, Storm Water and Wastewater. Each asset class has been subset for better understanding of the core asset classes. Of note are three Township bridges identified in poor condition which the Township will need to replace within the 10-year study window. These three bridges do not have much vehicular traffic and pending future bridge inspections the Township may choose to close one or more bridges until some additional funding sources are found. This study shows all three bridges to be replaced within the 10-year study period.

Asset Type	Condition (weighted average)	Risk (weighted average)	Useful Life (UL) Weighted Average	Remaining Service Life (RSL) Weighted Average	RSL as a % of UL
Road Base		Low	60		
Road Surface Asphalt	Good	Low	25	13	52%
Road Surface Gravel	Good	Low	3	1	26%
Bridge & Culverts	Good	Moderate	70	32	46%
Storm Mains	Average	Moderate	73	42	58%
Catch Basins	Good	Low	100	67	67%
Storm Manholes	Good	Moderate	100	68	68%
Crossroad Culvert	Average	Moderate	35	5	14%
Storm Ponds	Good	Moderate	100	68	68%
Discharge Points	Average	Moderate	50	16	32%
Water Facilities & Components	Good	Moderate	46	27	59%
Water Mains	Good	Low	100	72	72%
Water Fittings	Average	Moderate	75	43	57%
Hydrant	Average	Moderate	50	19	38%
Hydrant Laterals	Good	Low	100	69	69%
Water System Valves	Average	Moderate	75	45	60%
Wells	Average	Moderate	46	18	39%
Wastewater	Good	Moderate	50	13	26%

Looking at a weighted average of remaining life as a percentage of useful life can provide a quick estimate of how quickly the Township may be looking to invest in either capital improvements or asset replacement. The water assets indicate that they are approaching their mid-lifecycle and therefore have good to average conditions. The tax supported core assets show a weighted average good condition and are also approaching mid-range of their useful life.

It is important to view these percentages not as absolutes but as triggers to seek more information about an asset type. For example, when looking at the Bridge & Culvert assets are identified with a weighted average of good condition. However, the weighted average remaining life of this important asset class less than 50% of the asset useful life

indicating more substantial investments will need to be made in this asset class. In fact, based on the Township bridge inspection report the Township has over $3,000,000 that will need to be invested over he next five years. It is important to state that the Township has been investing well in their bridges/culverts. The Township's investments are clearly shown from 2016 when the Township's average bridge condition was 5.8 to 2020 average bridge condition index of 7.3 (condition values rated 1 as very poor to 10 as very good).

"Expected levels of service" compares the current level of service provided by the Township, and the recommended levels of service that will help extend the life of the above-mentioned asset types as well as help accommodate for growth of the Township. The Township of Amaranth takes great care in the service levels they offer their constituents and public. This report has made a few additional Levels of Service (LOS) recommendations that can potentially extend the life of the Township's core tangible capital assets and therefore reduce the total lifecycle costs of these assets.

The "asset management strategy" for core assets provides a long-term operating and capital forecast for these asset related capital costs, indicating the requirements for maintaining, rehabilitating, replacing/disposing, and expanding the Township's assets, while moving towards the specified expected levels of service identified above. The goal of the asset management strategy is to have the Township moving towards a more sustainable asset management position over the 10-year forecast period. We have also taken into consideration the potential risk of each asset by identifying the asset consequence of failure and probability of failure.

Asset risk was assessed based on the asset's age, condition, consequence of failure, and probability of failure. The following have been identified based on Township data as assets that need to be replaced or have major improvement over the next few years:

Roads

- 5 Sideroad from County Road 11 to 2nd Line – asphalt resurfacing (recommended improvement in 2023, approximate cost $176,680)
- Amaranth/Mono Townline from 20 Sideroad north to first box culvert – asphalt resurfacing (recommended in 2023, approximate cost $84,000)
- David Street from Mill Street to Main Street - asphalt resurfacing (recommended in 2023, approximate cost $12,716)
- Evans Avenue from James Stret to End – asphalt resurfacing (recommended in 2023, approximate cost $4,151)
- Evans Avenue from James Street to Henry Street - asphalt resurfacing (recommended in 2023, approximate cost $10,129)
- Henry Street from Evans Avenue to End – asphalt resurfacing (recommended in 2023, approximate cost $9,278)

- James Street from Evans Avenue to End of James Street – asphalt resurfacing (recommended in 2023, approximate cost $37,503)
- Main Street from David Street to Henry Street – asphalt resurfacing (recommended in 2023, approximate cost $27,698)
- Henry Street from Main Street to Evans Avenue – asphalt resurfacing (recommended in 2023, approximate cost $20,657).

Bridges

- Bridge 5 (MTO 4-155) at Station St. and Mill St. – requires rehabilitation (recommended improvement in 2023, approximate cost $210,000)
- Bridge 13 (MTO 4-75) 6th Line just north of 15 SR – requires engineering and replacement (recommended improvement in 2024, approximate cost $1,467,500)
- Bridge 4 (MTO 4-103) 9th Line north of Station St. – requires re-alignment work of the watercourse at the inlet and place fill to protect the rock at the deep area on the southeast end of the culvert (recommended improvement in 2024, approximate cost $11,000)
- Bridge 12 (MTO 4-76) 6th Line just south of 15 SR – requires engineering and replacement (recommended improvement in 2024, approximate cost $1,467,500)
- Bridge 10 (MTO 4-72) 7th Line north of 10 Sideroad – requires engineering and replacement (recommended improvement in 2027, approximate cost $1,467,500).

Storm Water

- Crossroad Culverts – across the whole Township. Many have exceeded their useful life that we have assumed a $20,000 annual investment to replace crossroad culverts that are in very poor condition. This will require staff to review the crossroad culverts annually to determine the culverts that need to be replaced.

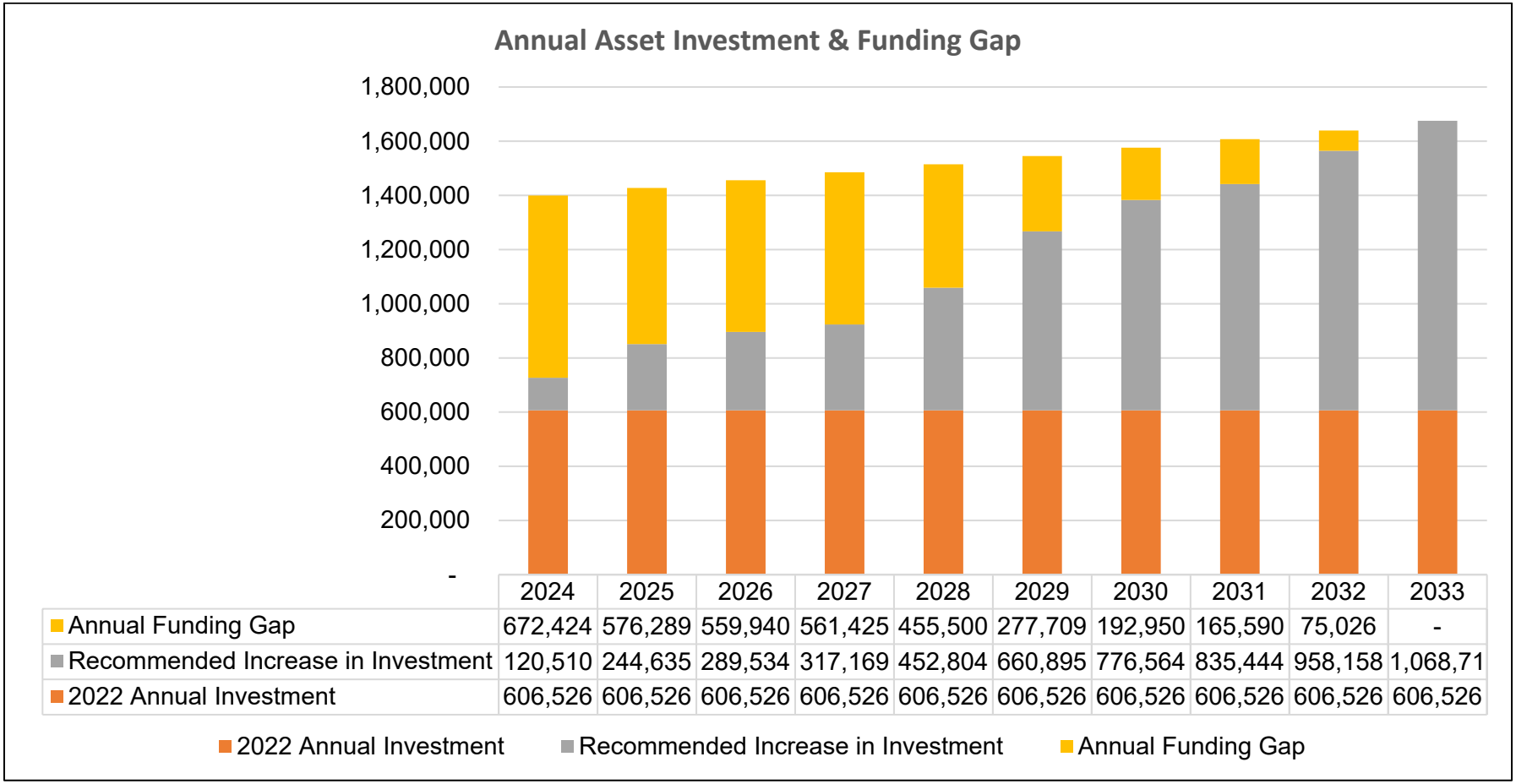
Water

- Scada Laptop – at the Waldemar Water Plant – replacement (recommended improvement in 2024, approximate cost $3,000)
- Scada Data Logger – at Waldemar Water Plant – replacement (recommended improvement in 2024, approximate cost $5,000)
- Raw Water Meters – at Waldemar Water Plant – replacement (recommended improvement in 2024, approximate cost $10,000)
- High Lift Pumps – at Waldemar Water Plant – rebuild pumps (recommended improvement in 2024, approximate cost $10,000)
- Submersible Pumps – at Waldemar Water Plant – replacement of well pumps (recommended improvement in 2024, approximate cost $21,000)
- Discharge Piping/Valves – at Waldemar Water Plant – replacement (recommended improvement in 2026, approximate cost $50,000).

The above listed projects summarise the most current core assets improvement needs for the Township. Adding up the total costs of these projects and comparing this to the Township's past capital funding investments shows a growing gap in infrastructure funding, which is found not only in the Township of Amaranth but throughout Ontario, and across Canada. See the graphic representation below that identifies the Township's funding gap. The Township has been making steps to close this funding gap and working hard to seek available funding grants to help close the gap. However, more needs to be done to ensure that the Township can offer appropriate levels of service to the public now and into the future.

The "financing strategy" described in Section 5 of this report identifies a funding plan for the recommended asset management strategy, including a review of historical results and recommendations with respect to the required amounts and types of funding (revenue) annually over the forecast period. Also, any infrastructure funding gaps are identified, and recommendations are made regarding potential approaches to reduce and mitigate these gaps over the 10-year forecast period.

Annual Asset Investment & Funding Gap



	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Annual Funding Gap	672,424	576,289	559,940	561,425	455,500	277,709	192,950	165,590	75,026	-
Recommended Increase in Investment	120,510	244,635	289,534	317,169	452,804	660,895	776,564	835,444	958,158	1,068,71
2022 Annual Investment	606,526	606,526	606,526	606,526	606,526	606,526	606,526	606,526	606,526	606,526

Based on an analysis of the Township's core capital assets in terms of replacement cost and useful life, the following summary of optimal annual asset investment has been created.

Tax Supported Core Infrastructure	Replacement Cost	Weighted Average Useful Life	Annual Replacement Investment
Road Base	$89,346,337	60	$20,000
Road Surface Asphalt	$6,256,505	25	$250,300
Road Surface Gravel	$551,710	3	$183,900
Bridge & Culverts	$33,022,500	70	$471,800
Storm Mains	$2,994,543	73	$41,000
Catch Basins	$670,000	100	$6,700
Storm Manholes	$385,000	100	$3,900
Crossroad Culvert	$664,513	35	$19,000
Storm Ponds	$80,000	100	$800
Discharge Points	$45,000	50	$900
Wastewater	$115,000	50	$2,300
Total	**$134,131,107**		**$1,000,600**

Water / Wastewater Core Infrastructure	Replacement Cost	Weighted Average Useful Life	Annual Replacement Investment
Water Facilities & Components	$1,964,500	72	$27,300
Water Mains	$6,687,829	100	$66,900
Water Fittings	$383,000	75	$5,100
Hydrant	$225,000	50	$4,500
Hydrant Laterals	$36,000	100	$400
Water System Valves	$690,000	75	$9,200
Wells	$230,000	46	$5,000
Total Water	**$10,216,329**		**$118,400**

In summary, an annual asset investment of $1,000,600 for tax supported core assets and $118,400 for water assets are needed to fund long-term asset management planning needs for core assets. This does not include other non-core assets that have been excluded from this asset management plan. In addition, annual asset investments for road base assets are based on level of service costs identified in this asset management plan and not full replacement.

These optimal investment amounts become the funding target over the forecast period. However, this target increases over time as inflation increases this amount annually. Assuming 2% annual inflation, the target annual capital asset investment amount becomes approximately $1,270,000 for tax supported core assets and $150,000 for water assets by the year 2033.

The Township has used both Canada Community Building Fund (Gas Tax) and OCIF funding as funding sources, as well as Bridge and Asset Management Reserves for funding core infrastructure improvements. Our proposed Financial Strategy shows the Township will require $4.2 million in debt funding from 2024 to 2033 to support the recommended tax supported core asset lifecycle needs. Along with the debt funding we propose a tax increase of 2.6% per year from 2023 – 2027 and 2.09% thereafter.

Overall, this asset management plan is a tool to be used by the Township for capital and financial decision making. It can be tied to various existing reports (such as budget, official plan, and strategic planning reports) to ensure the asset management plan can be updated to reflect any changes in the Township of Amaranth's priorities.

Please note that this study only focused on the Township's core assets (Water, Wastewater, Storm Water, Roads, and Bridges). The identified gap in infrastructure funding is expected to change when incorporating all of the remaining Township's asset types of which Facilities, and Vehicles are the major contributors.

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In the preparation of the various instruments of service contained herein, R.J. Burnside & Associates Limited was required to use and rely upon various sources of information (including but not limited to: reports, data, drawings, observations) produced by parties other than R.J. Burnside & Associates Limited. For its part R.J. Burnside & Associates Limited has proceeded based on the belief that the third-party/parties in question produced this documentation using accepted industry standards and best practices and that all information was therefore accurate, correct, and free of errors at the time of consultation. As such, the comments, recommendations, and materials presented in this instrument of service reflect our best judgment in light of the information available at the time of preparation. R.J. Burnside & Associates Limited, its employees, affiliates and subcontractors accept no liability for inaccuracies or errors in the instruments of service provided to the client, arising from deficiencies in the aforementioned third-party materials and documents.

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1.0 Introduction

1.1 Overview

R.J. Burnside & Associates Limited (Burnside) was retained by the Township of Amaranth (Township) to prepare an asset management plan for core assets. This plan is intended to be a tool for the Township to use during various decision-making processes, including the annual budget process and Provincial/Federal capital grant application processes. This plan will serve as a road map for sustainable infrastructure planning going forward.

Assets included in this asset management plan are the following:

- Water (Facilities, Mains, Fittings, System Valves, Hydrants, Hydrant Laterals, Wells);
- Wastewater (Septic Systems);
- Storm Water (Gravity Mains, Catch Basins, Manholes, Crossroad Culverts, Storm Ponds, Discharge Points);
- Roads (Bases and Surfaces - Asphalt, Gravel); and,
- Bridges/Culverts.

It is recommended that this plan be updated on an annual basis to ensure that it is kept up to date. All assets listed above other then water assets are tax supported and are discussed more thoroughly in this report.

1.2 Plan Objectives

The Township's goals and objectives with respect to their core capital assets relate to the level of service being provided to the Township's residents and visitors. Services are currently provided at current levels of service. It is recommended that the Township provided these services at expected levels, as defined within this asset management plan. The Township's infrastructure and other capital assets are anticipated to be maintained at condition levels that provide for a safe and functional environment for its residents and visitors. Therefore, the asset management plan and its implementation will be evaluated based on the Township's ability to meet these goals and objectives.

1.3 Plan Development

The development of the Township's asset management plan was based on the steps summarized below:

1. Develop a complete listing of core capital assets to be included in the plan, including attributes such as useful life, age, accounting valuation and current replacement valuation. Update the replacement cost of assets to 2021 dollars, and where required, using applicable inflationary indices.

2. Assess current condition of the assets, based on a combination of the following:
   - Existing reports;
   - Burnside pre-report road condition from Road Asset Management Plan;
   - Burnside desktop assessments based on reports;
   - Staff assessments; and,
   - Asset age analysis.

3. Assess the risk of asset failure for each asset, based on determining the probability of each asset failing, as well as the consequence of the asset failing. This risk analysis is one of the components used to identify priority projects for inclusion in the asset management plan, as well as asset risk levels that require mitigation.

4. Determine current levels of service, based on standard practices and discussions with Township staff, Township Water contracted service provider and discussions with Burnside Engineering staff. Further analysis of the maintenance practices and identification of additional measures that can be applied to the assets to extend their lifecycle and potentially provide a lower asset total lifecycle cost.

5. Prepare an asset management strategy (i.e., operating and capital forecast) based on the core asset inventory, identified priorities, forecast scenarios and level of service analysis discussed above.

6. Determine a financial strategy to support the asset management strategy, thus determining how the operating and capital related expenditure forecast will be funded over the plan period.

7. Prepare a final report, summarizing the process, strategy, and results of the asset management plan.

1.4 Maintaining the Asset Management Plan

The asset management plan should be updated as the capital needs and priorities of the Township changes. This can be accomplished in conjunction with the Township's budget process. With the delivery of this project spreadsheet file, the Township will have the tools available to perform updates to the plan when needed.

When updating the asset management plan, note that the state of local infrastructure, expected levels of service, asset management strategy and financing strategy are integrated and impact each other. Looking at these components in reverse order, one can see the financing strategy outlines how the asset management strategy will be funded. The asset management strategy illustrates the costs required to maintain expected levels of service at a sustainable level. The expected levels of service component summarizes and links each service area to specific assets contained in the

state of local infrastructure section and thus determines how these assets will be used to provide expected service levels.

This report covers a forecast period of 10 years; however, it is suggested that more focus and attention be put on the first five years of the asset management plan, to ensure accurate capital planning in the short term. It is also recommended that the Township start moving towards 50-year forecasts. This longer-term vision will ensure that future infrastructure investments are not lost in the shorter 10-year forecast window.

1.5 Plan Integration

The municipal environment is continually changing and demanding when it comes to legislation and other responsibilities. Integrating the asset management plan with the Township's budget process, as well as Public Standards Accounting Board Handbook Section 3150 (tangible capital asset) requirements can make updates in all three areas more efficient.

With respect to integrating the Township's budget process with asset management planning, the Township requires a projection of capital and operating costs over a future period. The budget outlines total operating and capital requirements for the Township, while the asset management plan focuses in on specific asset related requirements. With this link to the annual budget, the budget update process can also become an asset management plan update process.

Both asset management and PSAB 3150 require a complete and accurate asset inventory. The significant difference between the two lies in valuation approaches (PSAB 3150 requires historical cost valuation, while asset management requires future replacement cost valuation). Using a single asset inventory, as developed in the asset management spreadsheets for the core assets, containing both historic and current replacement valuation methods is an effective approach to maintaining the Township's asset data (digital spreadsheets of these assets are provided in Appendix A).

2.0 State of Local Infrastructure

2.1 Scope and Process

This section of the plan provides an opportunity to develop a greater understanding of the core capital assets owned by the Township. The state of local infrastructure analysis includes:

- An asset inventory documenting asset types, sub-types including quantities, materials, and other similar asset attributes (where available);
- Financial accounting valuation (where available);
- Replacement cost valuation;
- Asset age distribution analysis and asset age as a proportion of expected useful life;
- Asset condition information (mostly based on report and/or staff assessment as well as the age of the asset);
- Draft Data Verification and Asset Condition policies; and,
- Documentation of assumptions made in creating the asset inventory.

Burnside developed a detailed asset inventory listing of core assets for the Township which was used as a starting point in fulfilling the requirements for this report. This inventory provides current financial accounting valuations (i.e., historical cost, accumulated amortization, and net book value), as well as attributes such as replacement cost, useful life, and age). With respect to replacement cost, the Township provided various recent valuations, which were inflated in order to estimate current 2021 replacement costs. Other valuations were made for assets that were not part of the PSAB 3150 asset listing using a current 2021 replacement cost and deflating the value to the year or estimated year that the asset was constructed and/or acquired.

The following data and reports were used to develop the Township's asset inventory during this project:

- Township PSAB 3150 asset inventory;
- Township reports (such as spreadsheets; documents; and notes from staff);
- Township 2022 Road Condition Inspections which will become part of the Township Road Management Plan;
- Township 2020 Bridge Inspection Report;
- Township Water Rate study 2015 and Water Financial Plan 2020;
- Recent purchase information from the Township; and,
- Discussions with Township staff.

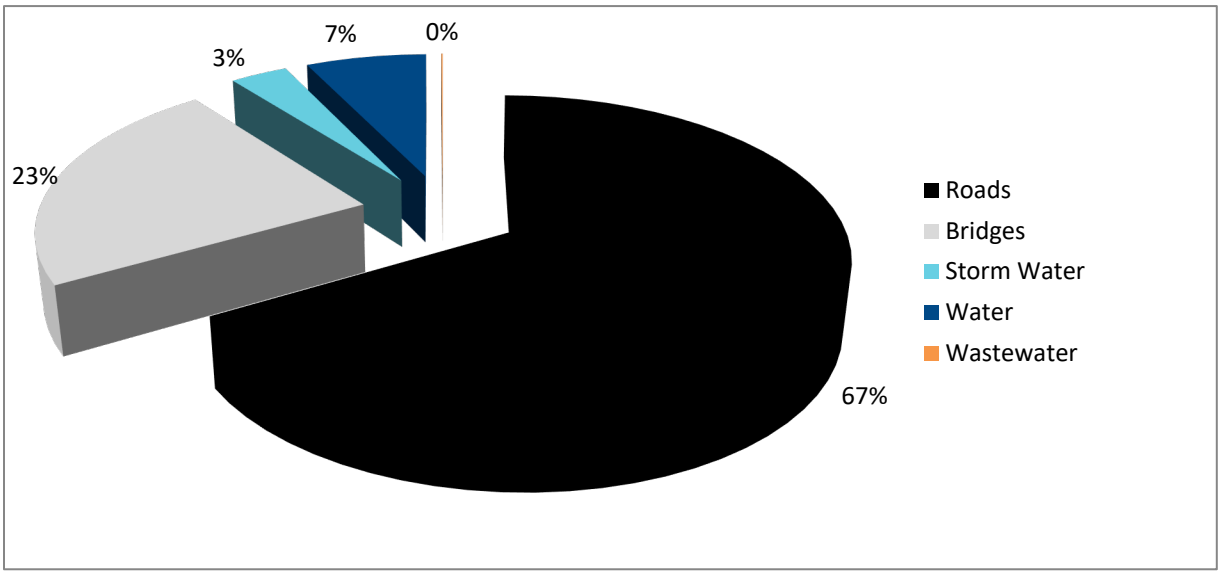
Some adjustments to asset useful lives have been made but further analysis may reveal that the Township will want to update some useful life values in the tangible capital asset financial reporting so that they better reflect the lifecycle and remaining life of the Township's assets. Burnside engineers have reviewed the useful lives of the core assets identified in this project and believe they now better reflect the conditions, maintenance practices and management of the Township's assets.

2.2 Capital Asset Overview

The Township presently owns core capital assets with a 2021 replacement value of approximately $144.3 million broken out in Figure 2-1 and summarized as follows:

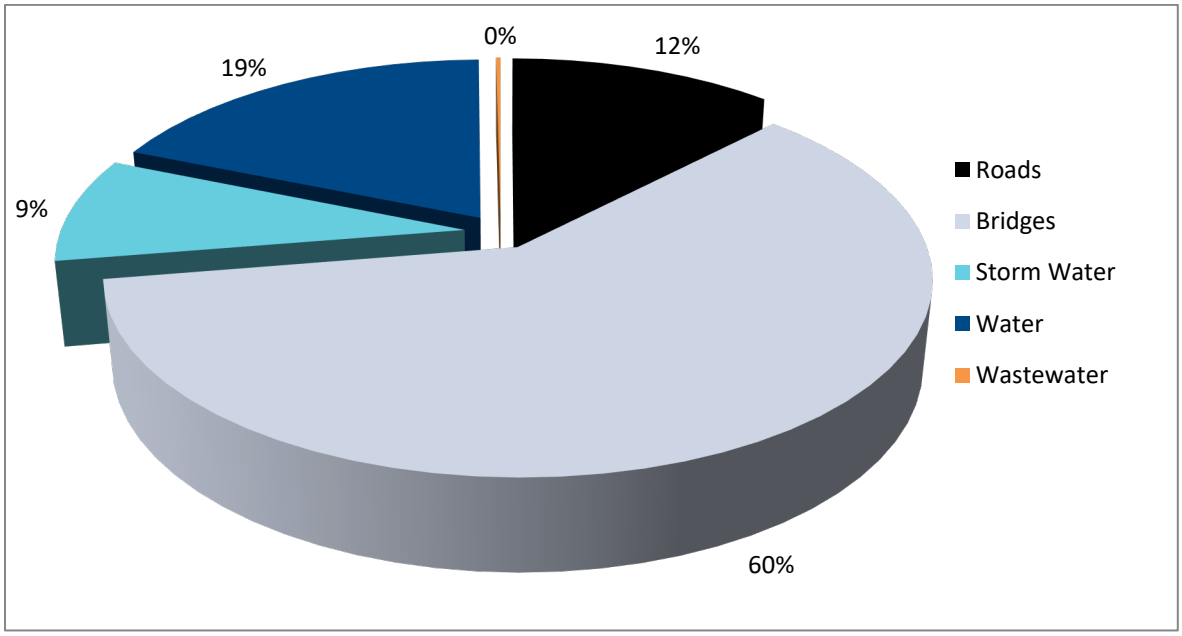
- $134.1 million Core tax supported assets (Roads, Bridges, Storm Water, Wastewater); and,
- $10.2 million Water rate payers supported assets.

Figure 2-1: Township Core Assets Replacement Costs (2021)



Close to 62% of the total replacement value is contained in Road Base assets ($89.3 million) which then results in the remaining replacement asset value of $55.0 million or approximately $44.8 million core tax supported assets. Table 2-1, Figure 2-1, and Figure 2-2 outline the breakdown of these totals into the Township's core asset categories.

Figure 2-2: Tax Supported Asset Distribution without Road Bases Replacement Costs (2021)



The capital asset inventory was organized in a Microsoft Excel spreadsheet and delivered to the Township in digital form shown in Appendix A. Each of the asset types were assessed for their age, condition (where available) and for data accuracy and completeness.

Table 2-1 and Figure 2-1 show the Township's financial accounting valuation summary by asset type for core assets. Since 2009, municipalities have been required under the Public Sector Accounting Board Handbook Section 3150 (PSAB 3150) to maintain asset listings complete with historical cost (i.e., the original cost to purchase or construct an asset), accumulated amortization and net book value. These values were to be reported on the Township's audited financial statements each year. Burnside has done the additional work of developing the 2021 cost for assets that have been added to the Township's asset inventory. If the Township chooses to use the asset inventory developed in this project to report the PSAB 3150 values, the data/information is found in the delivered spreadsheets and Appendix A.

Including all the Township's assets studied in this project, the total tangible capital asset historical cost is approximately $27.9 million. This is approximately 19.4% of the total replacement cost, or 35% excluding road base historic/replacement costs. It is expected that historical cost totals are less than replacement cost totals, given inflationary adjustments that would occur between the original asset purchase/ construction date and 2021. Total accumulated amortization for the Township's project assets is approximately $12.9 million or 9% of the total asset historical cost and $7.5 million or 13.7% without road base costs included. This represents the proportion of tangible

capital assets that have been amortized (i.e., used up) to date from a financial valuation perspective. This also leads one to understand that the Township's core assets are mostly in the first one-third to one-half of their lifecycle.

Clearly the Township's owned road assets have the greatest percentage tax supported replacement cost if the road base values were included in the calculation (see Table 2-1, and Table 2-2). Road bases are considered assets that will never be totally replaced but will from time to time be improved and in spot locations reconstructed on an as needed basis. Therefore, by excluding road base asset values (see Figure 2-2), the Township's bridges percentage replacement costs are 60% for the core tax supported assets. Other core tax supported asset types studied are Road Surfaces with 12.4% (made up of Asphalt 11.4%, and Gravel 1%), Storm Water with 8.8% (made up of Storm Mains 5.4%, Catch Basins 1.2%, Storm Manholes 0.7%, Crossroad Culverts 1.2%, Discharge Points 0.1%, and Storm Ponds 0.1%). More in depth discussion of the asset types follows below.

Table 2-1: Asset Assessment Summary

Asset Type	Historic Cost	2021 Accumulated Amortization	2021 Net Book Value	2021 Replacement Cost	Condition Value (weighted average)	Condition Text (weighted average)	Useful Life (years)	Age (weighted average)	Remaining Life (weighted average)	Risk Value (weighted average)	Risk Text (weighted average)
Road Base	$8,706,483	$5,377,553	$3,328,930	$89,346,337			60	125			Low
Road Surface Asphalt	$4,081,102	$1,873,941	$2,207,162	$6,256,505	8.0	Good	25	11	13	1.5	Low
Road Surface Gravel	$579,757	$478,695	$101,062	$551,710	7.0	Good	3	7	1	1.5	Low
Bridge & Culverts	$7,009,904	$1,804,018	$5,205,887	$33,022,500	7.3	Good	50, 75	45	32	2.1	Moderate
Storm Mains	$1,286,684	$574,153	$712,531	$2,994,543	6.0	Average	75	31	42	1.9	Moderate
Catch Basins	$276,838	$88,406	$188,432	$670,000	7.0	Good	100	32.6	67.4	1.0	Low
Storm Manholes	$184,081	$58,906	$125,175	$385,000	7.0	Good	100	31	68	2.0	Moderate
Crossroad Culvert	$187,542	$131,739	$55,804	$664,513	5.3	Average	30, 80	49	5	1.9	Moderate
Storm Ponds	$36,615	$11,811	$24,804	$80,000	7.0	Good	100	33	68	2.0	Moderate
Discharge Points	$13,353	$9,024	$4,329	$45,000	5.0	Average	50	33	16	2.0	Moderate
Water Facilities & Components	$1,398,882	$1,023,639	$375,243	$1,964,500	7.3	Good	15, 20, 25, 75, 100	27	46	2.4	Moderate
Water Mains	$3,353,600	$937,499	$2,416,101	$6,687,829	7.0	Good	100	28	72	1.0	Low
Water Fittings	$205,733	$136,984	$68,748	$383,000	5.6	Average	75	32	43	2.0	Moderate
Hydrant	$151,762	$97,127	$54,635	$225,000	6.0	Average	50	31	19	2.0	Moderate
Hydrant Laterals	$21,211	$6,788	$14,423	$36,000	7.0	Good	100	31	69	1.0	Low
Water System Valves	$304,310	$187,353	$116,957	$690,000	6.0	Average	75	30	45	1.9	Moderate
Wells	$114,378	$106,610	$7,768	$230,000	5.7	Average	30, 50	28	18	1.8	Moderate
Wastewater	$31,111	$19,587	$11,524	$115,000	7.0	Good	50	39	13	2.0	Moderate
Total	**$27,943,347**	**$12,923,832**	**$15,019,516**	**$144,347,437**	**6.0**	**Average**		**53.2**	**30.0**	**1.0**	**Low**
Total without Road Base Replacement Costs				**$55,001,100**	**7.2**	**Good**		**36.7**	**34.5**	**1.9**	**Moderate**

2.3 Road Environment Assets

The Township's Road assets make up a key service that reflects the economic and social development of the community. The road environment assets are 66.6% of the core assets studied in this project and are made up of the following asset types:

- Road Surface Asphalt – 4.3% of the total Township's core asset replacement costs;
- Road Surface Gravel – 0.4% of the total Township's core asset replacement costs;
- Road Bases – 61.9% of the total Township's core asset replacement costs; and,
- Bridges – 22.9% of the total Township's core asset replacement costs.

Figure 2-3 and Figure 2-4 outline the replacement cost distribution of Road assets with and without Road Base values included.

Figure 2-3: Road Environment Asset Distribution Replacement Costs (2021)

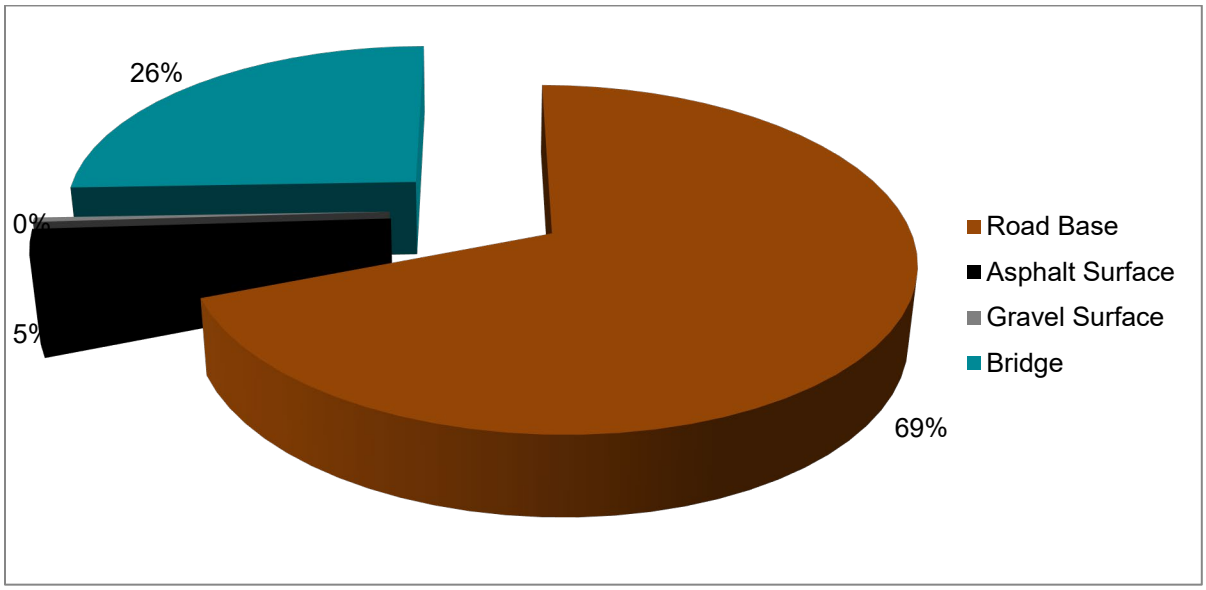
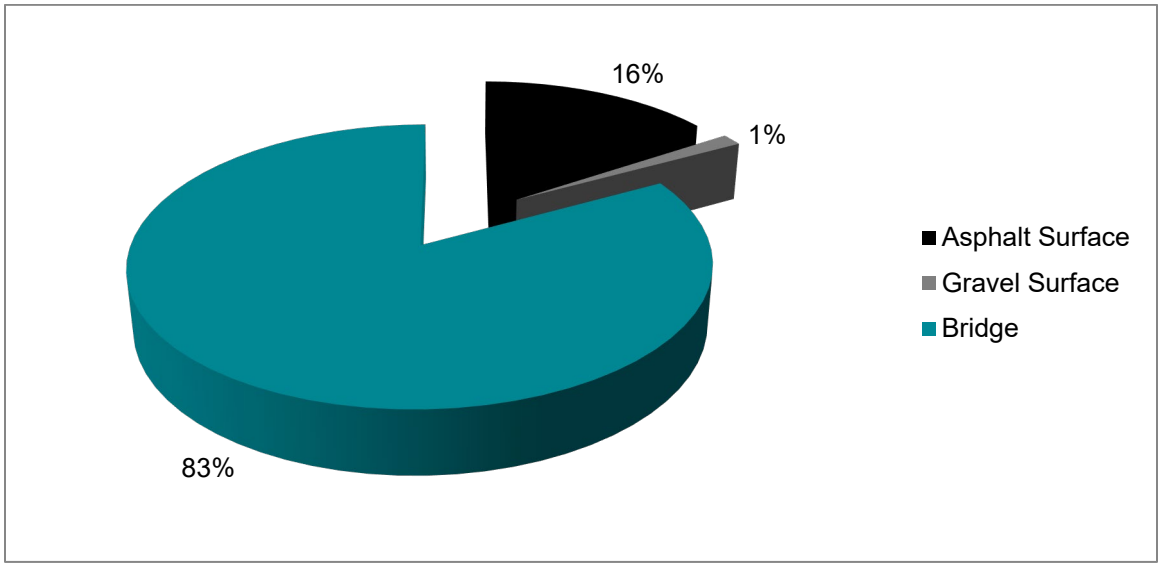


Figure 2-4: Road Environment Asset Distribution Replacement Costs (2021) without Road Bases



Below we provide more detail on the asset groups in the Road Environment group of tax supported assets, Roads, and Bridges.

2.3.1 Roads

At the current replacement cost the road assets account for $96.2 million dollars or 66.6% of the assets studied in this project. Without Road Bases included road assets account for $6.7 million or 12.4% of the assets studied in this project. The composition of the road surfaces is outlined in Table 2-2. A more detailed listing of the Township's road assets can be found in Appendix A.

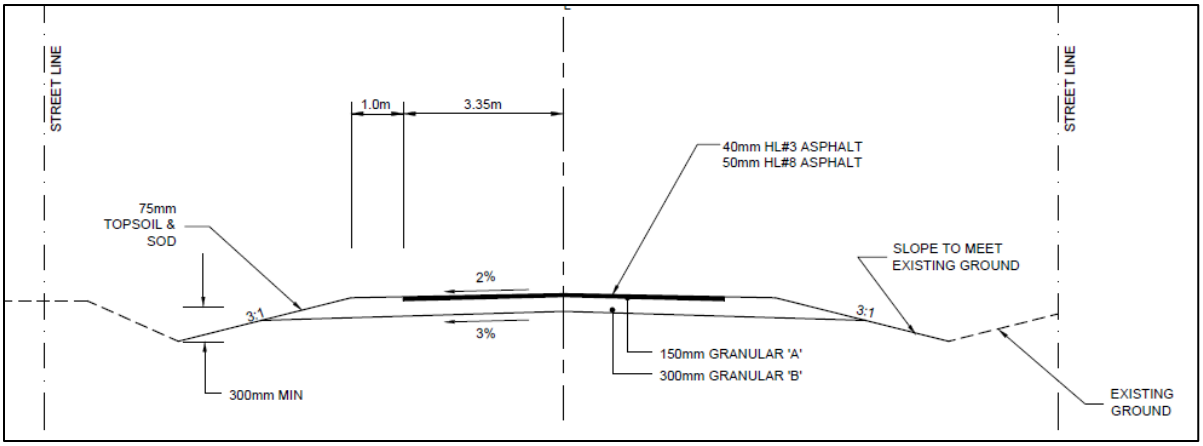
Table 2-2: Road Surface Assets

Road Surface	Surface Length (m)	Condition (weighted average)	Condition (Text)	Risk (weighted average)	Replacement Cost
Asphalt	45,051	8.0	Good	Low	$6,256,505
Gravel	186,198	7.0	Good	Low	$551,710
Total	**231,249**		**Good**		**$6,808,215**

The Township is currently completing a Road Asset Management Plan study which is establishing a more detailed prioritization of both capital and operational maintenance programs for the Township. The road condition data from the road study project are included in this project as this information was available at the time of developing an asset strategy for this project.

Key to all roads is the road base on which they are built. These road bases in most cases have been established many years ago. Hard top (asphalt, and surface treated) road surface roads provide the longest life cycle with best level of service when constructed on excellent road bases. Once the road base becomes soft it cannot economically support a hardtop road surface and it is best to convert it to a gravel road until funding is made available and the base has been reinforced. Figure 2-5 provides a typical road cross-section diagram. This can be applied for all surface types as asphalt (shown in figure), and without asphalt for gravel road surfaces. Please note that the Township has some roads located in challenging wet areas, which require more specific localized engineering design.

Figure 2-5: Typical Asphalt Road Surface Cross-Section



The Township's gravel surface roads are upgraded approximately every three to four years or as required with surface gravel replacement/top-up. In some locations additional gravel is at times required to help reinforce the road base.

The Road Asset Management Plan study report will provide more detailed explanations of the Township's road conditions and related deficiencies that impact longevity or operations of the roads, including road widths, drainage, surface type, alignment, and brushing maintenance where required. Only the road conditions from the road study were incorporated into this asset management plan.

2.3.2 Bridges & Culverts

The Township has twenty bridges and culverts structures over the span of 3.0 m inspected in 2020 and one other arch culvert that is under 3.0 span but part of the bridge inventory. The inspection report was reviewed, and information used in this asset management analysis.

Visual inspections are required to be carried out every two years in accordance with the Ministry of Transportation – Ontario Structure Inspection Manual (OSIM). The inspections are to be completed under the direction of a Professional Engineer to assess their condition and identify any material defects, performance deficiencies, maintenance needs, additional studies and/or repairs/rehabilitation work required on a structure-by-structure basis.

The Township has a total of just over $33 million replacement cost of bridge and culvert assets. Table 2-3 provides the distribution of the types of bridges that the Township owns. A more detailed listing of the bridge assets can be found in Appendix A.

Table 2-3: Structure Types

Bridge Type	Number	Replacement Cost
I-beam or Girders	4	$11,015,000
Through Girder	2	$2,935,000
T-Beam	1	$990,000
Box Beams of Girders	1	$3,305,000
Rigid Frame, Vertical Legs	5	$6,545,000
Cast in Place Box Culvert	1	$1,415,000
Guardian Bridge	1	$1,045,000
Bowstring Arch	2	$2,935,000
Arch Culvert	3	$1,370,000
Closed Bridge	1	$1,467,500
Total	**21**	**$33,022,500**

Load postings may be recommended for structures based on age, condition, noted performance deficiencies or based on the findings of a structural evaluation. There are currently four structures in the Township's inventory that have load postings and one bridge that was recommended to have a load posting. See Table 2-4 for Load Posting details.

Table 2-4: Township Bridge Load Limit Posting

Asset ID	Bridge Number & Asset Name	Structure Type	Load Posting	Recommended Load Posting
2293	Bridge 3 MTO (4-104) - 8th Line	T-Beam		16
2296	Bridge 10 MTO (4-72) - 7th Line	Through Girder	16	16
2289	Bridge 11 MTO (4-73) - 15th SR	Through Girder	12	12
2479	Bridge 12 MTO (4-76) - 6th Line (south of 15 SR)	Bowstring Arch	12	12
2480	Bridge 13 MTO (4-75) - 6th Line - (north of 15th SR)	Bowstring Arch	14	14

The Township's inspection report did not have a bridge condition index (BCI) values calculated for the bridges, so Burnside Bridge Engineers used the information from the report to calculate an approximate BCI which was used in this study. It is recommended that the Township have the engineers completing the bridge and culvert inspections use the most up to date Ministry of Transportation inspection forms and calculate appropriate BCI values for each structure.

It was identified that the Township's defined PSAB 3150 Useful Life for some of the structures was not representative of true nature of the lifecycle of these assets. The useful life was adjusted and highlighted in yellow in the asset tables found in Appendix A.

The capital works needs include any repair, rehabilitation or replacement work which would typically be completed by the Township's hired Contractor, to assist in extending the service life of a structure and increasing the Bridge Condition Index (BCI). In accordance with the OSIM report, the capital and maintenance works required are based on a priority of 6 to 10 years, 1 to 5 years, and urgent now needs have been estimated and incorporated into the asset management strategy. Table 2-5 outlines the potential capital and maintenance works required within the year categories.

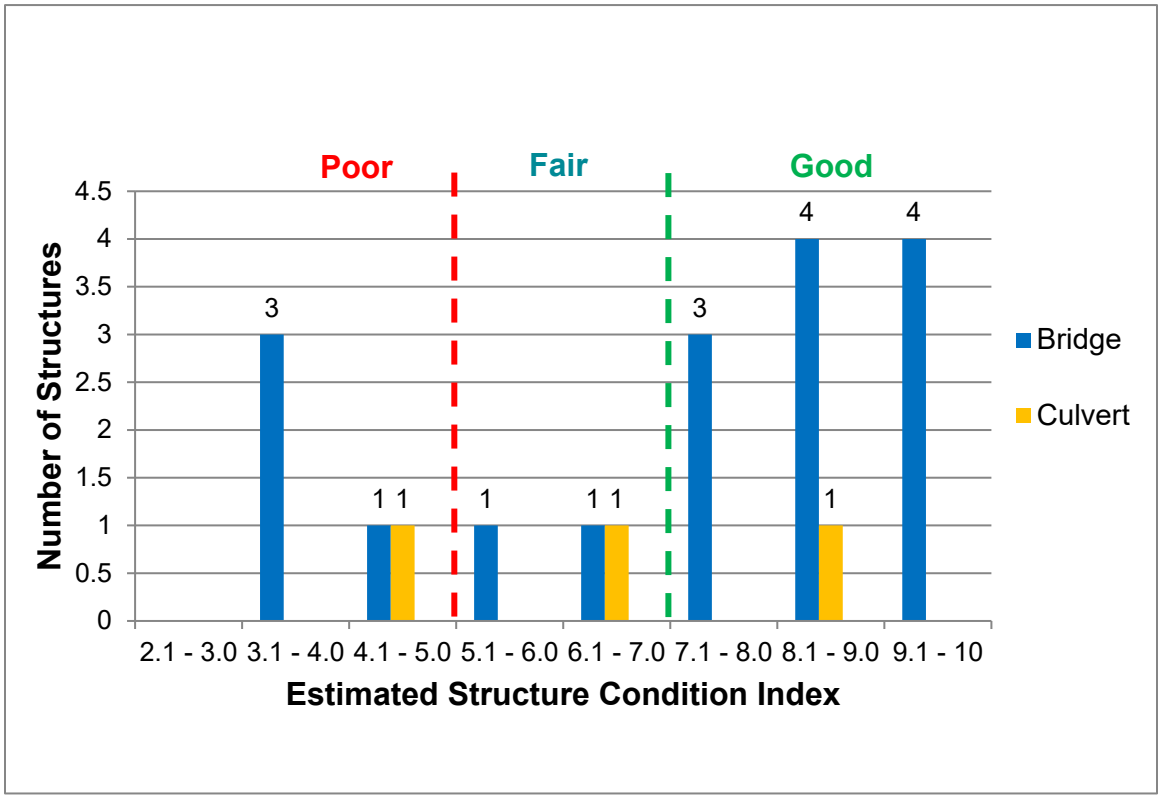
Table 2-5: Bridge and Culvert Needs Costs

Time Frame (Inspection Report)	Capital & Maintenance Cost
< 1 year	$238,000.00
1 – 5 years	$4,579,500.00
6 – 10 years	$2,488,500.00
TOTAL	**$7,306,000.00**

Taking into consideration the structures estimated condition index, eleven structures have been identified for some form of replacement/rehabilitation.

Based on the biennial inspection of each structure, the estimated Structure Condition Index Distribution graph, shown in Figure 2-6 provides a summary of the current state of the Township's structures.

Figure 2-6: Estimated Structure Condition Distribution



Currently, 60% of the Township's structures are within the "good" range, with 15% of the structures classified as "fair" and 25% classified as "poor", as illustrated in Figure 2-6 above. Of interest, the Ministry of Transportation Ontario (MTO) has established a goal to have 85% of their structures in "good" condition by the year 2021, and to maintain that condition moving forward by addressing rehabilitations and replacements as necessary. Burnside recognizes that the above goal was not established by the Township. It should be noted that based on the current state of the inspected structures the Township is underperforming on the management of their bridge assets when compared to the MTO's established goal of 85% of the structures in "good" condition.

The Township has been investing in their bridge structures with the following projects:

- Bridge 6 was rehabilitated in June 2020 which extended the life by 25 years;
- Bridge 2 replacement is to be completed in summer of 2023 utilizing a Guardian bridge and will provide an expected 50-year life; and,
- Bridge 10 is currently in the process of engineering design for replacement by 2027.

Continued maintenance and completion of rehabilitative or replacement works as recommended in the 2020 OSIM Bridge Inspection Report will help to continue with the upward BCI condition trend of the bridge and culvert assets.

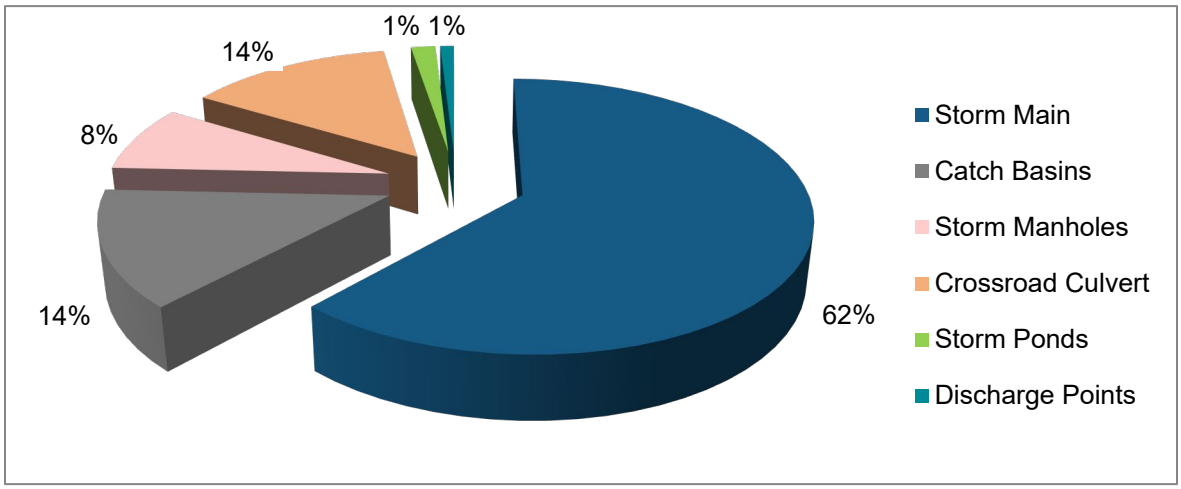
2.4 Storm Water Assets

The Township has $4.8 million of storm water assets. The majority of the storm water asset value is located in the Waldemar area, with storm water gravity mains total replacement cost just over $3.1 million or 5.4% of the Township's core tax supported assets not including road bases. Table 2-6 and Figure 2-7 show the distribution of the Township's storm water assets. A more detailed listing of the storm water assets can be found in Appendix A. In general, the storm water assets are in average condition and have a long remaining lifecycle, with moderate risk of failure.

Table 2-6: Storm Water Assets

Storm Water Assets	Length (m) / Number	Condition (weighted average)	Condition (Text)	Risk (weighted average)	Replacement Cost
Storm Mains	3,132 m	6.0	Average	Moderate	$2,994,543
Catch Basins	74	7.0	Good	Low	$670,000
Storm Manholes	19	7.0	Good	Moderate	$385,000
Crossroad Culvert	379	5.3	Average	Moderate	$664,513
Storm Ponds	2	7.0	Good	Moderate	$80,000
Discharge Points	2	5.0	Average	Moderate	$45,000
Total		**6.1**	**Average**		**$4,839,056**

Figure 2-7: Storm Water Asset Replacement Cost Distribution



2.4.1 Crossroad Culverts

Crossroad culverts total $664.5 thousand and 1.2% in asset replacement cost not including road bases. Crossroad culverts are key to ensuring that water stays away from the Township's road base and therefore maintain more solid foundation for the road surface. This is particularly important during extreme weather events which produce large volumes of rain over a short period of time.

It is recommended that the Township crossroad culverts be inspected to assess their condition and true remaining life. The weighted average remaining life of the crossroad culverts are five years which indicates that the majority of the crossroad culverts have exceeded their identified useful lives. With more extreme weather events there is more pressure being placed on the drainage system across the Township.

This condition information will assist the Township with understanding where to focus replacing and upgrading these culverts to prevent the roads from extreme weather event erosion. For this asset management study age-based condition was calculated and used for replacement assessment.

2.5 Wastewater Assets

The Township only owns two wastewater related assets which are septic systems connected to the main Administration Office/Community facility and the Public Works Garage. These two systems are well maintained and are operating well. The replacement cost of these septic systems is approximately $115,000. More detail about the two septic systems can be found in Appendix A.

2.6 Water Rate Payer Supported Assets

The Township water rate payer supported assets provide potable water to the Waldemar community. These assets total $10.2 million in 2021 replacement cost value which is 18.6% of all the Township core assets excluding the road bases. Table 2-1 provides a summary of all of the water supported assets. A more detailed review of these assets can be found in Appendix A.

Each water rate payer supported asset component identified in Table 2-1 is critical to the acquiring, treatment and distribution of potable water to the Waldemar community with sufficient quantity and pressure. As this is a water rate payer supported asset grouping we shall only comment on the condition and capacity of the system.

In general, the condition of the water assets are good with low risk of failure. The Township's water service contractor is maintaining the appropriate water distribution levels of service. The water quality and pressure are at acceptable levels for the current number of homes being serviced.

2.7 Asset Condition

Each asset was tracked based on estimated total useful life and remaining service life. Using this data, along with staff information, and age analysis of the Township's assets assisted in identifying potential areas of focus where inspected asset condition was not available (like subsurface or unseen assets). We want to state that asset condition is always best defined via engineering best practices. Engineering based condition assessments can provide more realistic estimates of an asset's remaining service life, which can then be used to establish asset rehabilitation and/or replacement schedules. Age related condition values can be problematic if the asset's useful life is not appropriately defined. For example, if a useful life of an asset is defined shorter than the assets true performance, this will result in a lower/poorer age assessed condition rating. This method of condition approximation was only used when inspected or staff or Township's service contractor commented conditions were not available.

A rating out of 10 was established for all assets and was based on a combination of past reported physical inspections, current inspections, staff assessment, and asset age analysis. This rating was then converted to a condition description of "Very Good" to "Very Poor" as shown in Table 2-7.

Table 2-7: Asset Condition Format for all Assets

Condition (Value 0-10)	Condition
9 – 10	Very Good
7 – 8	Good
5 – 6	Average
3 – 4	Poor
1 – 2	Very Poor

The condition of the assets is an important element of any lifecycle assessment process. This process also identifies maintenance and operating practices that can be applied to ensure appropriate service levels are maintained, as well as extending the life of the asset to its maximum service life.

A draft policy has been proposed that will ensure the Township's core assets are reviewed using established engineering methods and practices. Appendix B contains the draft Data Verification and Condition Assessment Policy, which identifies how often the Township's assets are recommended to be assessed.

A high-level summary of the average conditions for the Township's core assets are shown in Table 2-1. The conditions listed in Table 2-1 were calculated using weighted average conditions. The weighting factor used was the asset replacement costs so that the greater the cost the greater the weighting of that asset's condition used to determine the average. Using this method provides more emphasis on the more expensive to replace assets. However please note that averages are a composition of many assets in a group. Averages can be misleading with respect to immediate needs as the new assets offset the old assets requiring urgent replacement.

2.8 Data Accuracy and Completeness

An important element of this asset management plan is ensuring that tools and procedures are in place to maintain accuracy and completeness of the asset data and calculations moving forward. As time passes, assets are used, maintained, improved, disposed of, and replaced.

All of these lifecycle events can trigger changes to the asset database used within the asset management plan. Therefore, tools and procedures are essential to ensure the asset data remains accurate and complete. Please refer to Appendix B for the draft "Data Verification and Condition Assessment Policy" for the Township. This policy illustrates how the asset data can be updated and verified going forward. This includes the timing of condition assessments for each asset type and what should be included within the condition assessment procedures.

3.0 Expected Levels of Service

The Township has been offering and maintaining for its residents and visitors, good service levels, during challenging economic times. The Province has demanded via Ontario Regulation 588/17 that municipalities complete asset management plans on a regular basis to ensure that appropriate investments are being made in municipal infrastructure. Reviewing past records has shown that large investments were being made into maintaining and replacing the Township's core infrastructure. The last few years have seen much improvement with greater investments in Township infrastructure. It is important to note that the long-term objective of the Township needs to be infrastructure sustainability. In general, the Township is performing maintenance activities when required.

3.1 Scope and Process

A levels of service (LOS) analysis gives the Township an opportunity to document the levels of service that are currently being provided and compare it to the levels of service that will ensure the assets achieve their full lifecycle potential. This can be done through a review of current practices and procedures, an examination of trends or issues facing the Township and/or through an analysis of performance measures and targets that staff can use to measure performance.

Expected LOS can be impacted by a number of factors, including:

- Legislative requirements (e.g., minimum maintenance standards for roads, water, wastewater guidelines, etc.);
- Strategic planning goals and objectives;
- Resident expectations;
- Visitor expectations;
- Council expectations; and,
- Financial or resource constraints.

The previous task of determining the state of the Township's local infrastructure establishes the asset inventory and condition, as well as asset management policies and principles to guide the refinement and upkeep of asset infrastructure. The LOS analysis utilizes this information and factors in the impact of asset service level targets. It is important to document an expected LOS that is realistic to the community. It is common to strive for the highest LOS; however, these service levels usually come at a cost. It is also helpful to consider the risk associated with a certain LOS. Therefore, expected LOS should be determined in a way that balances both level of investment and associated risk to the Township.

Burnside received verbal confirmation of maintenance practices that the Township staff and service contractor undertake. We recommend that the Township revisit and update the Road Asset Management Plan (due Spring 2023) every 10 years and the biannual bridge inspections and analysis utilizing the most up to date MTO bridge/culvert degradation models. Please note that the 2022 bridge inspection was not completed and will be completed in 2023. These engineering based inspection practices provide historic condition information as well as information related to any changes to asset maintenance. This will also help better determine the remaining life of the municipality's assets.

This information will help not only identify the current Township needs but also future requirements due to Levels of Service changes. Ensuring that appropriate levels of service are determined and recorded helps during the Township's future growth.

Figure 3-1 illustrates an example of a recommended strategy of investing more often in smaller amounts which provides higher levels of service and better asset condition with an over all lower total cost over the lifecycle of the asset.

3.2 Current Levels of Service versus Expected Levels of Service

The Township's current LOS has resulted in the current state of infrastructure as discussed in the previous section of the report. The current LOS also relates to the risk assessment discussed in later report sections. Regarding the cost of this LOS, the Township has established an operating and capital budget for the current year that includes the cost of providing this LOS. The Township is doing well with delivering levels of service as only $7,600 per year for tax supported core assets, $6,900 per year for water assets was identified as additional cost to deliver identified expected levels of service for core assets.

Table 3-1outlines broad LOS descriptions (both current and enhanced LOS). This analysis was noted through discussions with the Township's staff and engineering best practices. Based on the information provided there are a few enhanced maintenance related LOS identified. The Levels of Service cost impact analysis was factored into the financial strategy discussed in Section 5 of this report.

Figure 3-1: Benefit of Applying Preventative Maintenance – Asphalt Road Surface Service Life

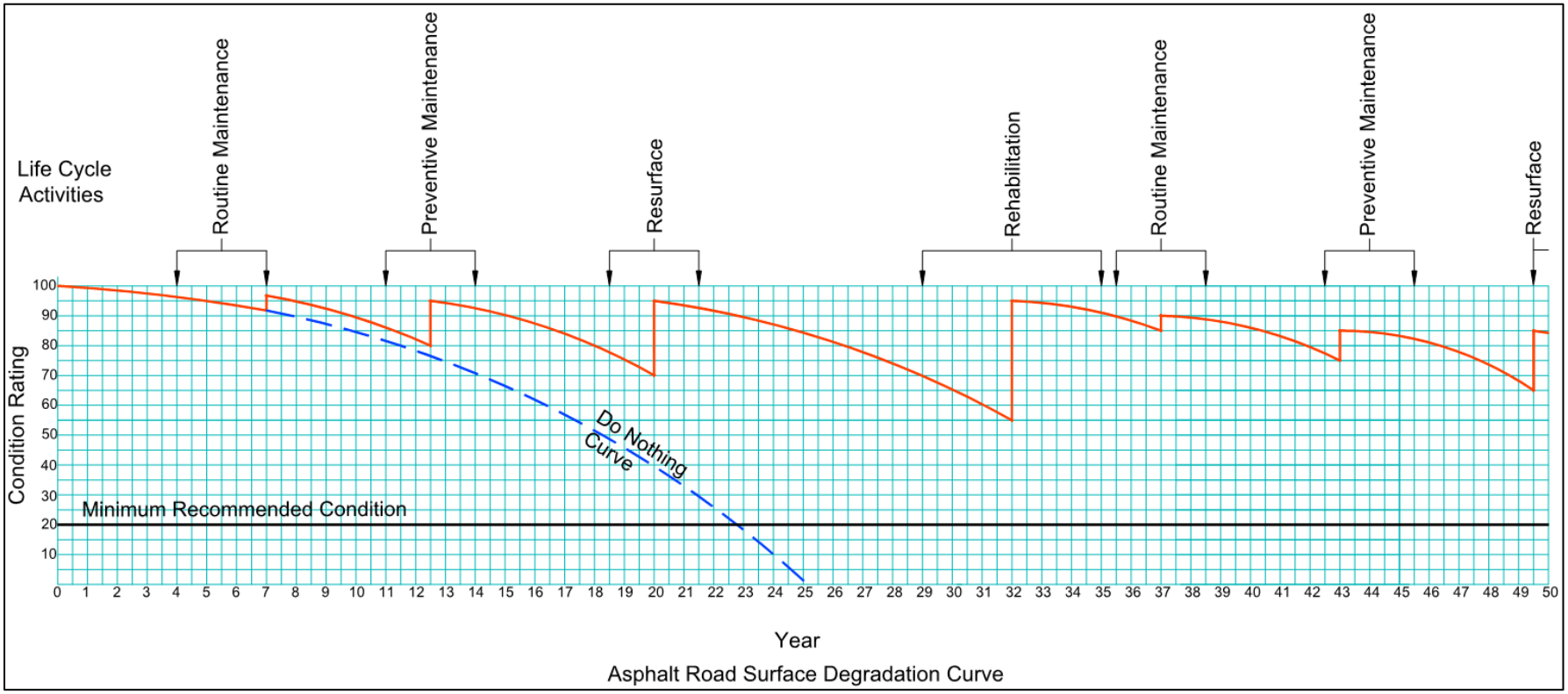


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Table 3-1: Expected Levels of Service

Roads and Road Related Assets

Roads Expected Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Current Cost of LOS	Estimated Cost of Expected LOS	Cost Description
Safe Roads	Meet "Minimum Maintenance Standards" as defined by Ontario Regulation 239/02 and Amendments.	Meet "Minimum Maintenance Standards" as defined by Ontario Regulation 239/02 and Amendments.	Regulation Standard	$4,500	$4,500	Municipality has an AVL system in all vehicles recording Roads Patrolled.
Fix Public Identified Issues Quickly	Track complaints and resolve them as quickly as possible	Track complaints by road segment so that history can be recorded.	Respond to Public Inquiry within 7 days	$3,400	$3,500	Municipality delivers this Level of Service well. Cost is for Pothole patching.
Maintain Road System Network Condition for safe use	Road Maintenance is completed regularly and when required	Maintain adequate road network condition index to ensure safe roads	Assess Road Conditions every 10 years with Internal assessment annually		$60,000 every 10 years	Roads Needs Study every 10 years to include Network Condition analysis (next proposed for 2033).
Asphalt Roads are Clean and Clear	Street sweeping and flushing are completed annually	Roads are swept and flushed to ensure they are clear of debris and safe.		$9,000	$9,000	Municipality has minimal Asphalt roads. Debris is collected as per Minimum Maintenance Standards.
Follow Best Practice for Asphalt Roads	Completing a regular Crack Seal program.	Completing a regular crack seal program.			$18,000	Municipality looking to implement an annual crack seal program.
Gravel Roads are well maintained and Dust Inhibited	Gravel roads are smoothed when required, and Calcium Chloride applied to control dust	Gravel roads are smoothed when required, and Calcium Chloride applied to control dust		$180,000	$180,000	Municipality delivers this Level of Service well
Safe and well-maintained Roadsides	Municipality provides brushing, ditching, grass mowing, and shoulder maintenance to ensure roadsides are safe and well maintained	Roadsides are clear of obstructions and well maintained for safe road travel.		staff	staff	Municipality delivers this Level of Service well
Winter Road Maintenance	Winter roads are cleared and safe.	Roads are maintained and meet "Minimum Maintenance Standards" as defined by Ontario Regulation 239/02 and Amendments.		$45,000	$45,000	Municipality uses sand to deliver Level of Service
Weather forecast information	Municipal staff check weather forecasts minimum 3 times per day in the Winter months (October 1 - April 30)	Weather forecasts are reviewed three times per day during the Winter Maintenance months.				Municipality delivers this Level of Service well via County Agreement
Signs can be seen clearly	Signs: Visual inspections done in the evening. Replaced when required/needed. Contractor was used in 2022	Signs: Visual inspections. Replace when needed.	Reflectivity Standard		$10,000 every 5 years	Municipality delivers this Level of Service well. Recommended that contractor inspection is completed every 5 years

Roads Expected Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Current Cost of LOS	Estimated Cost of Expected LOS	Cost Description
Traffic Counts	Updated traffic counts are recorded when required	Clear understanding of traffic counts are updated			$1,000	Recommended to be completed every year
Road Line Painting	Paved Roads have clearly marked/lined lanes	Proper road lane paint distinction		$8,000	$8,000	Cost for completing half the Township roads
Safe Well lit Urban/Semi-Urban Street areas	Maintenance activated by Public Notice for Street Lights	Maintenance activated by Public Notice for Street Lights	Correction of Issues within MMS	$500	$500	Recommendation for conversion to LED lights

Bridge and Culvert Assets

Bridge Expected Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Current Cost of LOS	Estimated Cost of Expected LOS	Cost Description
Safe Bridges	Maintain good bridge condition and 5 bridges with load limits. One bridge closed.	Maintain good condition and no load limits.	MTO bridge guides			Municipality is working towards completing this LOS. To be reviewed in 2023 bridge study
Bridges Maintained	Follow Bridge Inspection Report recommendations for Bridge and Culvert maintenance.	Proactive Bridge and Culvert maintenance (based on bridge inspection report).		$20,000	$20,000	Municipality is completing this LOS, with improving the safety features identified in the Municipality's Bridge Inspection Report over the next 10 years. Required funds are identified in the LOS tables
Proper Bridge Spring Maintenance	Bridge washing is completed in Spring	Blowing out Expansion Joints & Washing of Bridges in Spring		staff	staff	Municipality delivers this Level of Service well
Bridge Inspections	Bridge inspections (i.e., using OSIM forms) required every 2 years.	Bridge inspections (i.e., using current OSIM forms) required every 2 years.	Completed every 2 years		$8,000 every two years	Municipality needs to ensure that the engineering firm inspecting the bridges and culverts (greater then 3m diameter) use the most current MTO inspection forms, so that appropriate Bridge Condition Indexes are calculated.

Storm Water Assets

Storm Water Expected Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Current Cost of LOS	Estimated Cost to Move to Expected LOS	Cost Description
Effective Storm Water Management	Investigate and respond based on public complaints/concerns	Proper flows and clear system with little to no inhibitors	No storm water back-up incidents			Municipality delivers this Level of Service well
Cross Road Culverts are Appropriately Sized and Maintained	Cross Road Culverts are replaced when required	Climate Change and/or Extreme Weather events do not cause adverse issues with the Municipal road network		$10,000	$20,000	Cross road culverts are replaced when required. It is recommended that assessment of the size of the cross road culverts can withstand extreme weather events to ensure Road Bases are secure.
Catch Basins are clear and well Maintained	Catch Basin cleaning every three years	Annual Catch Basin cleaning			$1,500	With the limited number of catch basins and location in the area of the Municipal Office it is considered that this LOS is being completed.
Storm Water Mains are clear and well Maintained	No identified issues	Regular inspection for condition and no physical obstructions			$15,000	Recommend a CCTV program to be completed in 10-15 years
Discharge Points are clear and well Maintained	No identified issues	Regular inspection for condition and no physical obstructions			Staff	Recommend discharge points are inspected annually
Municipal Drains are well Managed and Maintained	Drainage Superintendent responds to Land Owner concerns and follows Ontario Drainage Act	Drainage Superintendent responds to Land Owner concerns and follows Ontario Drainage Act	Follow Ontario Drainage Act	$35,000	$40,000	Municipality delivers this Level of Service.

Wastewater Assets

Wastewater Expected Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Current Cost of LOS	Estimated Cost of Expected LOS	Cost Description
Treatment Processes Meet Legislative Requirements	Meet all legislative requirements.	Meet all Provincial legislative requirements.	Provincial Guidelines			Township delivers this Level of Service well
Safe Treatment Structures (Tanks and Septic Beds)	Meet legislative requirement (Building Code, Fire Code, Health & Safety, etc.)	Meet legislative requirement (Building Code, Fire Code, Health & Safety, etc.)	Provincial Guidelines	$800 every 3 years	$800 every 3 years	Septic tanks are cleaned out every three years. Next clean out in 2025
Wastewater Pipes are clear and well Maintained	Ensuring Obstruction and/or Infiltration into Wastewater system	Review of flows to be completed when septic tanks are cleaned out.		staff	staff	No additional costs but good practice staff can perform when septic tanks are cleaned out.

Water Rate Supported Assets

Water Expected Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Estimated Cost of Current LOS	Estimated Cost of Expected LOS	Cost Description
Source Water is well Protected	Maintaining appropriate Zoning and Planning to ensure Source Water Protection	Maintaining appropriate Zoning and Planning to ensure Source Water Protection		$58,200	$60,300	Township is completing this LOS. Annual Monitoring Program ensures compliance with Water Permits. Costs include contractor fees
Production Wells are well Maintained	Appropriate maintenance is undertaken when required.	Appropriate maintenance is undertaken when required		$17,000	$17,000	Township is completing this LOS, via Contractor. Video inspections occur once every 10 years or sooner if required. $9,000 of cost is for Inspection of well casings. Costs are over the 10-year period.
Treatment Processes Meet Legislative Requirements	Meet all Provincial legislative requirements.	Meet all Provincial legislative requirements.	Provincial Guidelines	$11,700	$12,000	Township is completing this LOS, via Contractor. Cost identified for water sample testing and chlorine is ordered by the Contractor but paid by the Township.
Well Maintained Generator	Inspection completed every two years, tested monthly.	Tested and well-maintained generator		$3,000	$5,000	Township is completing this LOS on the Generator that is in service. Cost is for service over 10-year period
Appropriate Water Storage for Distribution Network	Water Storage is sufficient for current needs. The water storage will need to be expanded with new developments.	Water Storage meets the needs of the Water Distribution Network		$2,500	$2,500	Township is completing this LOS, via Contractor. Cost is identified for reservoir inspections every 10 years.
Efficient Water Distribution System	Water main leak repairs are completed as identified using Township Contractor	Water Losses are tracked and minimized		$24,000	$24,000	Township is completing this LOS. Costs are over the 10-year period.
System Valves are exercised and well maintained	System valves are exercised on a two-year rotation. Replaced when required	System valves are exercised and well maintained		$4,500	$4,500	Township is completing this LOS. Contractor completing via annual service contract, cost over 10-year period
Scada System Software Adjustments	Scada system is modified to ensure appropriate water quality and quantity distribution	Scada System is reviewed and well maintained to ensure appropriate water quality and quantity distribution				Township has system adjustments made as required to fulfill appropriate LOS.
Sufficient Water pressure and supply for Fire Protection	Water pressure meets and exceeds Fire Protection Standards with over 50psi, and water supply needs are sufficient.	Water Pressure meets Fire Protection Standards of 50 psi and water supply is readily available.		Contractor	Contractor	Township is completing this LOS. Any new development connecting to the water system will require an expanded water storage.
Safe Pumphouse Buildings	Meet legislative requirement (Building Code, Fire Code, Health & Safety, etc.)	Meet legislative requirement (Building Code, Fire Code, Health & Safety, etc.)	Provincial Guidelines	staff / Contractor	staff / Contractor	Township is completing this LOS
Facilities including Heating Systems are inspected and maintained	Facilities including Heating Systems are well maintained to ensure proper operations	Facilities including Heating Systems are well maintained to ensure proper operations		$25,000	$25,000	Township is completing this LOS. Need to repair annually due to potential chlorine levels in Pumphouse. Cost is total over 10-year period

Water Expected Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Estimated Cost of Current LOS	Estimated Cost of Expected LOS	Cost Description
Hydrant Inspection and Valve turning	All are inspected and valves turned in the Spring. Select Hydrants are inspected and valves turned in the late Fall	Hydrants are inspected and valves exercised completing any required maintenance		$10,000	$12,500	Township is completing this LOS, via Contractor. Total maintenance costs over 10-year period.
Hydrants are Flushed and Swabbed	Flushing Program meets Guideline Standards	Flushing Program meets Guideline Standards		Contractor	Contractor	Township is completing this LOS.

3.3 Township Growth

The Township continues to grow, and potentially will expand with five new developments over the next ten years. The new developments over the next ten years will add roads, water and storm water core assets to the Township asset inventory. If all five developments proceed this will increase the Township asphalt surface road network by over 20%, close to four times the length of storm water mains, close to eight times the number of storm manholes, close to three times the number of catch basins, and two times the number of storm ponds. As an example, Table 3-2 outlines the potential growth over the next ten years. Please note that the information is not fully approved only preliminary and does not have all the asset types identified.

Table 3-2: Current Identified Potential Growth

Development Name	Asphalt Road Length (m)	Water Main Length (m)	Number of Water System Valves	Number of Hydrants	Length of Storm Main (m)	Number of Catch Basins	Number of Storm Manholes	Number of Crossroad Culverts	Number of Storm Ponds	Concrete Curb	Concrete Sidewalk
ACE Subdivision	840	NA	NA	NA	NA	NA	NA	3	1	NA	NA
Primrose Estate	960	NA	NA	NA	25	2	1	4	1	NA	NA
Cachet/Centurian Homes	2,000	3,000	20	26	2,700	34	42	NA	1	4000	2000
Hamount Valley Grove	3,400	3,300	20	23	3,400	60	60	NA	1	6800	NA
Sarah Properties	2,160	3,240	22	28	2,900	37	45	NA	0	4320	2160
Total	**9,360**	**9,540**	**62**	**77**	**9,025**	**133**	**148**	**7**	**4**	**15,120**	**4,160**

It is important for the Township to not forget the older assets that will require improvements/replacement to maintain good levels of service.

4.0 Asset Management Strategy

4.1 Scope and Process

The asset management strategy provides the recommended course of actions required to maintain (or move towards) a sustainable asset position while delivering the levels of service discussed in the previous section. The course of actions, when combined together, form a long-term operating and capital forecast that includes:

- **Non-infrastructure solutions**: Reduce costs and/or extend expected useful life estimates;
- **Maintenance activities**: Regularly scheduled activities to maintain existing levels of service levels, or repairs needed due to unplanned events;
- **Renewal/Rehabilitation**: Significant repairs or maintenance planned to maintain the levels of service and increase the remaining life of assets; and,
- **Replacement/Disposal**: Complete disposal and replacement of assets when renewal or rehabilitation is no longer an option.

Priority identification becomes a critical process during the development of an asset management strategy. Priorities have been determined based on assessment of the overall risk of asset failure, which is determined by looking at both the probability of an asset failing, as well as the consequences of asset failure. The consequences of the municipality not meeting desired levels of service must also be considered in determining risk. As discussed in Section 3.0, adding enhanced levels of service results in both operating and capital budget impacts over the 10-year forecast period has to be taken into consideration, with the overall objective of reaching sustainable levels while mitigating risk.

4.2 Risk Assessment

The risk of an asset failing is defined by the following calculation:

Risk of Asset Failure = Probability of Failure X Consequence of Failure

Probability of failure has been linked to the condition assessment for each asset, assuming that an asset in “very good” condition has a “rare” probability of failure. The following table outlines the probability factor tied to each condition rating:

Table 4-1: Probability of Failure Matrix

Condition (Value)	Condition	Probability of Failure
9 – 10	Very Good	Rare
7 – 8	Good	Unlikely
5 – 6	Average	Possible
3 – 4	Poor	Likely
1 – 2	Very Poor	Almost Certain

Consequence of failure has been determined by examining each asset type separately. Consequence refers to the impact on the municipality if a particular asset were to fail.

Types of impacts include the following:

- **Cost Impacts**: the cost of failure to the Township (i.e., capital replacement, rehabilitation, fines and penalties, damages, etc.);
- **Social impacts**: potential injury or death to residents/public;
- **Environmental impacts**: the impact of the asset failure on the environment; and,
- **Service delivery impacts**: the impact of the asset failure on the Township's ability to provide services at desired levels.

Each type of impact was reviewed and consequence of failure for each asset type was determined by using the information contained in Table 4-2 as a guide to assess the level of impact. Levels of impact were documented as ranging from "significant" to "insignificant".

Table 4-2: Consequence of Failure Matrix

	Cost	Social	Environmental	Service Delivery
Significant	Significant Cost – Difficult to Recover	Death, Serious Injury	Long-term Impact – Permanent	Major Interruptions
Major	Substantial Cost – Multi-year Budget Impacts	Major Injury	Long-term Impact – Fixable	Significant Interruptions
Moderate	Considerable Cost – Requires Revisions to Budget	Moderate Injury	Medium-term Impact – Fixable	Moderate Interruptions
Minor	Small/Minor Cost – within Budget Allocations	Minor Injury	Short-term/Minor Impact – Fixable	Minor Interruptions
Insignificant	Negligible or Insignificant Cost	No Injury	No Impact	No Interruptions

With both probability of failure and consequence of failure documented, total risk of asset failure was determined using the matrix contained in Table 4-3. Total risk has been classified under the following categories:

- **Extreme Risk** (E): Risk beyond acceptable levels;
- **High Risk** (H): Risk slightly beyond acceptable levels;
- **Medium/Moderate Risk** (M): Risk at acceptable levels, monitoring required to ensure risk does not become high; and,
- **Low Risk** (L): Very little risk.

Table 4-3: Total Risk of Asset Failure Matrix

Probability of Failure	Consequence of Failure				
	Significant	Major	Moderate	Minor	Insignificant
Almost Certain	E	E	H	H	M
Likely	E	E	H	M	M
Possible	H	H	M	M	L
Unlikely	H	M	M	L	L
Rare	M	M	L	L	L

Risk levels can be reduced or mitigated through planned maintenance, rehabilitation and/or replacement of an asset. An objective of this asset management plan is to identify ways to reduce risk levels where they are deemed to be too high, as well as ensure assets are maintained in a way that keeps risk at acceptable levels.

4.3 Priority Identification

Through a review of the asset risk of failure assessment, the assets/categories listed below were identified as being priorities of the Township over the next few years. These lists of capital asset improvements/replacements is only for the next few years, and do not limit the needs that the Township requires to become fully sustainable. The Finance Strategy will further outline the needs for investing in assets annually via reserves to ensure that funds are available for future asset replacements.

4.3.1 Roads

- 5 Sideroad from County Road 11 to 2nd Line – asphalt resurfacing (recommended improvement in 2023, approximate cost $176,680)
- Amaranth/Mono Townline from 20 Sideroad north to first box culvert – asphalt resurfacing (recommended in 2023, approximate cost $84,000)

- David Street from Mill Street to Main Street – asphalt resurfacing (recommended in 2023, approximate cost $12,716)
- Evans Avenue from James Stret to End – asphalt resurfacing (recommended in 2023, approximate cost $4,151)
- Evans Avenue from James Street to Henry Street - asphalt resurfacing (recommended in 2023, approximate cost $10,129)
- Henry Street from Evans Avenue to End – asphalt resurfacing (recommended in 2023, approximate cost $9,278)
- James Street from Evans Avenue to End of James Street – asphalt resurfacing (recommended in 2023, approximate cost $37,503)
- Main Street from David Street to Henry Street – asphalt resurfacing (recommended in 2023, approximate cost $27,698)
- Henry Street from Main Street to Evans Avenue – asphalt resurfacing (recommended in 2023, approximate cost $20,657).

4.3.2 Bridges

All bridges and large culverts (over 3 m diameter) are a concern to the Township as a failure of this type of asset can result in a major consequence of failure.

- Bridge 5 (MTO 4-155) at Station St and Mill St. – requires rehabilitation (recommended improvement in 2023, approximate cost $210,000)
- Bridge 13 (MTO 4-75) 6th Line just north of 15 SR – requires engineering and replacement (recommended improvement in 2024, approximate cost $1,467,500)
- Bridge 4 (MTO 4-103) 9th Line north of Station St – requires re-alignment work of the watercourse at the inlet and place fill to protect the rock at the deep area on the southeast end of the culvert (recommended improvement in 2024, approximate cost $11,000)
- Bridge 12 (MTO 4-76) 6th Line just south of 15 SR – requires engineering and replacement (recommended improvement in 2024, approximate cost $1,467,500)
- Bridge 10 (MTO 4-72) 7th Line north of 10 Sideroad – requires engineering and replacement (recommended improvement in 2027, approximate cost $1,467,500).

4.3.3 Storm Water

- Crossroad Culverts – across the whole Township. Many have exceeded their useful life that we have assumed a $20,000 annual investment to replace crossroad culverts that are in very poor condition. This will require staff to review the crossroad culverts annually to determine the culverts that need to be replaced.

4.3.4 Water

- Scada Laptop – at the Waldemar Water Plant – replacement (recommended improvement in 2024, approximate cost $3,000)
- Scada Data Logger – at Waldemar Water Plant – replacement (recommended improvement in 2024, approximate cost $5,000)
- Raw Water Meters – at Waldemar Water Plant – replacement (recommended improvement in 2024, approximate cost $10,000)
- High Lift Pumps – at Waldemar Water Plant – rebuild pumps (recommended improvement in 2024, approximate cost $10,000)
- Submersible Pumps – at Waldemar Water Plant – replacement of well pumps (recommended improvement in 2024, approximate cost $21,000)
- Discharge Piping/Valves – at Waldemar Water Plant – replacement (recommended improvement in 2026, approximate cost $50,000).

4.4 Climate Change

Over the past decade there has been increased numbers of extreme weather events which are putting greater stress on municipal infrastructure, and pressure to ensure levels of service are maintained. Climate change poses a real risk management question which needs to be addressed within the context of municipal decision making.

Some climate change projections (Federation of Canadian Municipalities):

- Warmer summer temperatures;
- Warmer winter temperatures;
- More intense storms;
- Longer droughts;
- Increased frequency and amount of ice;
- Summers stretching longer; and,
- Sea level rising.

The Township of Amaranth has witnessed some of these climate change projections already causing potential challenges with road washouts from extreme weather events, or quick winter thaw runoff. Many roads as well as crossroad culverts have not been designed for such intense high-volume rainstorms.

Identifying areas of concern will help the Township to design road and storm water assets to improve resiliency to extreme weather events. This type of investment will reduce risk of failure of infrastructure and ensure appropriate levels of service are maintained for the public.

Another factor to climate change issues is the materials used in asset construction. The focus is to reduce the total carbon footprint on the construction of infrastructure assets. Investing in infrastructure with a long-term view provides both better levels of service as well as reducing the total carbon footprint.

As noted above it is recommended that the Township undertake a project to inspect the crossroad culverts to determine condition and a true remaining life. This type of project will provide guidance to the Township on the crossroad culverts that need to be replaced and potentially increased in size for better water flow during extreme weather events. This will also help the Township make good progress to becoming a more climate change resilient municipality.

4.5 Long-term Forecast

For many years, lifecycle costing has been used in the field of engineering to evaluate the advantages of using alternative materials in construction or production design. The method has gained wider acceptance and use recently in the management of capital assets. By definition, lifecycle costs are **all** the costs which are incurred during the lifecycle of a capital asset, from the time it is purchased or constructed, to the time it is taken out of service for disposal/replacement.

In defining the long-term forecast for the Township's core asset management strategy, costs incurred through an asset's lifecycle, the asset's condition, expected LOS, and risk were considered and documented. Asset replacement analysis in forecasting the Township's asset replacement needs are summarized in Figure 4-1 and Figure 4-2 which we are calling Asset Strategy based on expected levels of service.

The asset strategy incorporated all of the information discussed above in this report and based on the information provided by the Township, past reports, staff input, and understanding of the asset's reaction in their current environment as well as the expected asset maintenance levels, and the current asset condition, which is expected to produce a reduced asset potential risk of failure. The outcome of this scenario approach was to provide appropriate asset service levels, and the assets were expected to meet or exceed their useful life which reduces expected infrastructure deficits. In total (all core tax supported assets), $15.6 million in assets (inflated to appropriate year) are shown as maintenance, improvement, rehabilitation and replacement needs over the 10-year forecast. The water rate payer supported assets $1.0 million over the 10-year forecast period. This is the recommended asset strategy for the Township of Amaranth.

Assets like Bridges, and major culverts, are not expected to be replaced for usually over 50 years. It needs to be stated, to ensure that these assets have reserve funding for their rehabilitation/replacement schedule in the future. The Financial Strategy provides the Township with an investment plan into their reserve accounts.

For the recommended asset strategy to be feasible, the expected level of service adjustments discussed in Section 3 are needed in conjunction with the current level of service amounts in order to effectively maintain and rehabilitate the assets as required.

The financing strategy discussed in the next section will incorporate the level of service adjustments into the recommended financing analysis.

Figure 4-1 : Proposed Asset Strategy Based on Expected Levels of Service – Core Tax Based Assets

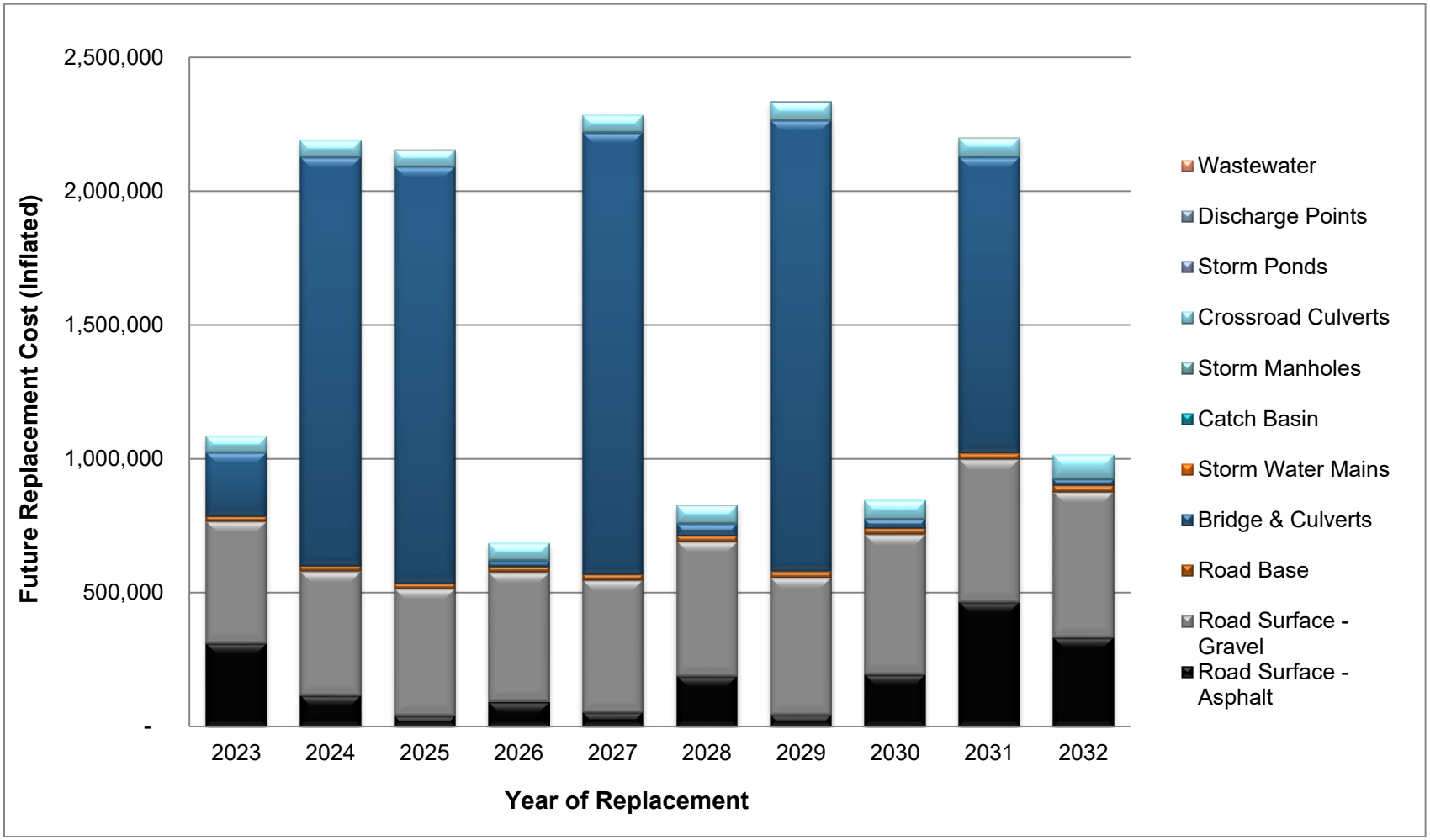
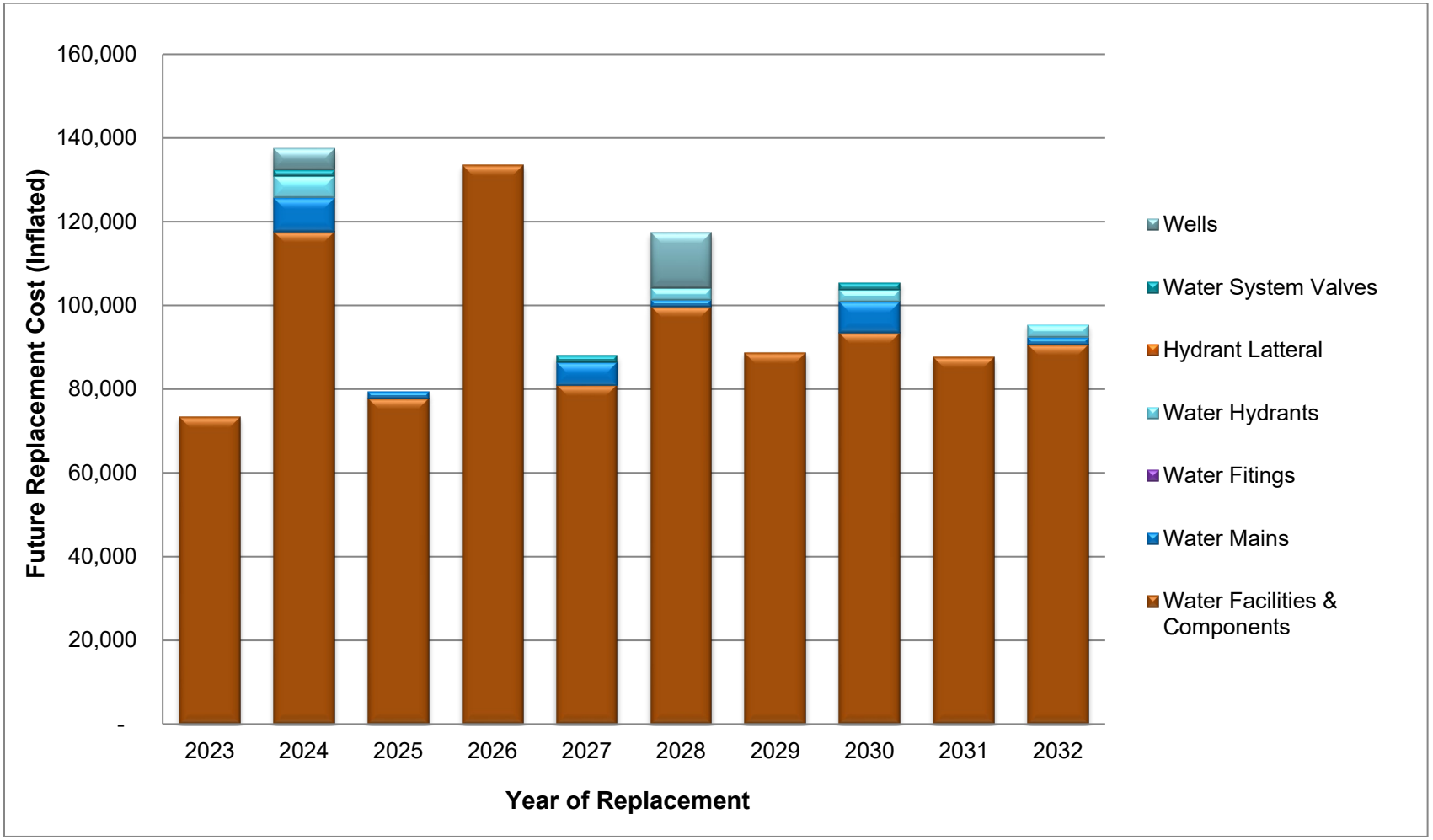


Figure 4-2: Proposed Asset Strategy Based on Expected Levels of Service – Water Rate Based Assets



5.0 Financing Strategy

5.1 Scope and Process

The financing strategy provides the recommended use of various funding sources to finance the asset management strategy and levels of service recommendations discussed in Sections 3.0 and 4.0. The financing strategy also provides recommendations to increase annual investments in assets that will be used beyond this report's 10-year forecast period.

5.2 Funding Sources

The following funding sources have been used within the financing strategy:

Grant Funding: It has been assumed that Gas Tax Funding (now called the Canada Community Building Fund) will continue throughout the forecast period. The Township's allocation is calculated to be $134,991 in 2023 and it has been assumed that funding will remain constant at this amount moving forward.

It has been assumed that Ontario Community Infrastructure Fund (OCIF) amounts will remain at 2023 levels over the forecast period, at $166,135 per year. The province has recently updated the formula for OCIF funding and has dedicated additional funding to this program.

Operating Budget: The Township includes annual amounts in the tax supported operating budget to fund capital. It has been assumed that $0 of this funding will be dedicated to tax supported core infrastructure annually throughout the forecast period. This aligns with recent Township budgets, where most core infrastructure needs have been funded from grants and debt.

Given that there are levels of service recommendations that are operating in nature, it has been assumed that these costs will be funded from the annual operating budget. This could be through existing funding or proposed increases each year.

Reserves: The Township's existing "Bridges" and "Asset Management" Reserves have been utilized as a funding source for tax supported core infrastructure capital needs over the forecast period. Water capital reserves exist for water supported assets. Reserves becomes the primary source of capital funding over the forecast

period. It is recommended that increases in annual asset investment for core infrastructure be allocated to reserves for capital use.

Water: The Township has a Water Rate Study that sets current and future water rates to support ongoing operating costs and capital needs. Rates are established in a manner that allows for transfers from the water operating budget to water capital reserves annually to fund asset investments.

Debt: If all other funding sources fall short in funding recommended lifecycle needs each year, debt financing is recommended. Debt financing is anticipated within the forecast period for core infrastructure (see the analysis provided below).

5.3 Historic Asset Investment (Tax Supported Core Assets)

The following table outlines the Township's historic capital investment in tax supported core assets. As shown, the annual investment has fluctuated over the last three years.

Table 5-1: Historic Asset Investment – Capital

Funding Type - Tax Supported (Core Infrastructure)	2021	2022	2023 (Draft)
Canada Community Building Fund (Gas Tax)	129,366	129,366	134,991
OCIF Funding	98,473	195,055	166,135
Transfer from Operating (Core Infrastructure)	-	-	-
Contribution to Reserve	-	-	-
Total Annual Asset Investment - Capital	**227,839**	**324,421**	**301,126**
Less: One-time top-up of the Canada Community Building Fund (Gas Tax)			
Total Asset Investment - Capital (Sustainable)	**227,839**	**324,421**	**301,126**

* Excludes the Safe Restart and OMPF grants as they are operating in nature.

* Excludes ICIP grants and debt as they are one-time contributions.

Therefore, a capital asset investment in 2023 of $301,126 becomes the starting point for recommending increases in annual asset investments over the forecast period.

5.4 Optimal Asset Investment (Tax Supported Core Assets)

Based on an analysis of the Township's capital assets in terms of replacement cost and useful life, the following summary of optimal annual asset investment has been created (see Table 5-2).

In summary, an annual asset investment of $1,000,600 is needed to fund long-term asset management planning needs for tax supported core infrastructure. This does not include other non-core assets that have been excluded from this asset management plan. In addition, annual asset investments for road base assets are based on level of service costs identified in this asset management plan and not full replacement.

This $1,000,600 annual asset investment becomes the funding target over the forecast period. However, this target increases over time as inflation increases this amount annually. Assuming 2% annual inflation, the target annual capital asset investment amount becomes approximately $1,270,000 by the year 2033.

Table 5-2: Optimal Asset Investment Summary

Tax Supported Core Infrastructure	Replacement Cost	Weighted Average Useful Life	Annual Replacement Investment
Road Base	$89,346,337	60	$20,000
Road Surface Asphalt	$6,256,505	25	$250,300
Road Surface Gravel	$551,710	3	$183,900
Bridge & Culverts	$33,022,500	70	$471,800
Storm Mains	$2,994,543	73	$41,000
Catch Basins	$670,000	100	$6,700
Storm Manholes	$385,000	100	$3,900
Crossroad Culvert	$664,513	35	$19,000
Storm Ponds	$80,000	100	$800
Discharge Points	$45,000	50	$900
Wastewater	$115,000	50	$2,300
Total	**$134,131,107**		**$1,000,600**

* Excludes non-core infrastructure assets
** Road Base annual investment for maintenance only

5.5 Financing Strategy (Tax Supported Core Assets)

The detailed 10-year financing strategy is provided in Appendix C to this report.

As the 2023 Budget has already been developed and passed by the Township, all recommendations provided in this chapter are recommended to be implemented starting in 2024. Also, similar to Section 4, a 2% inflation factor has been applied annually to all costs.

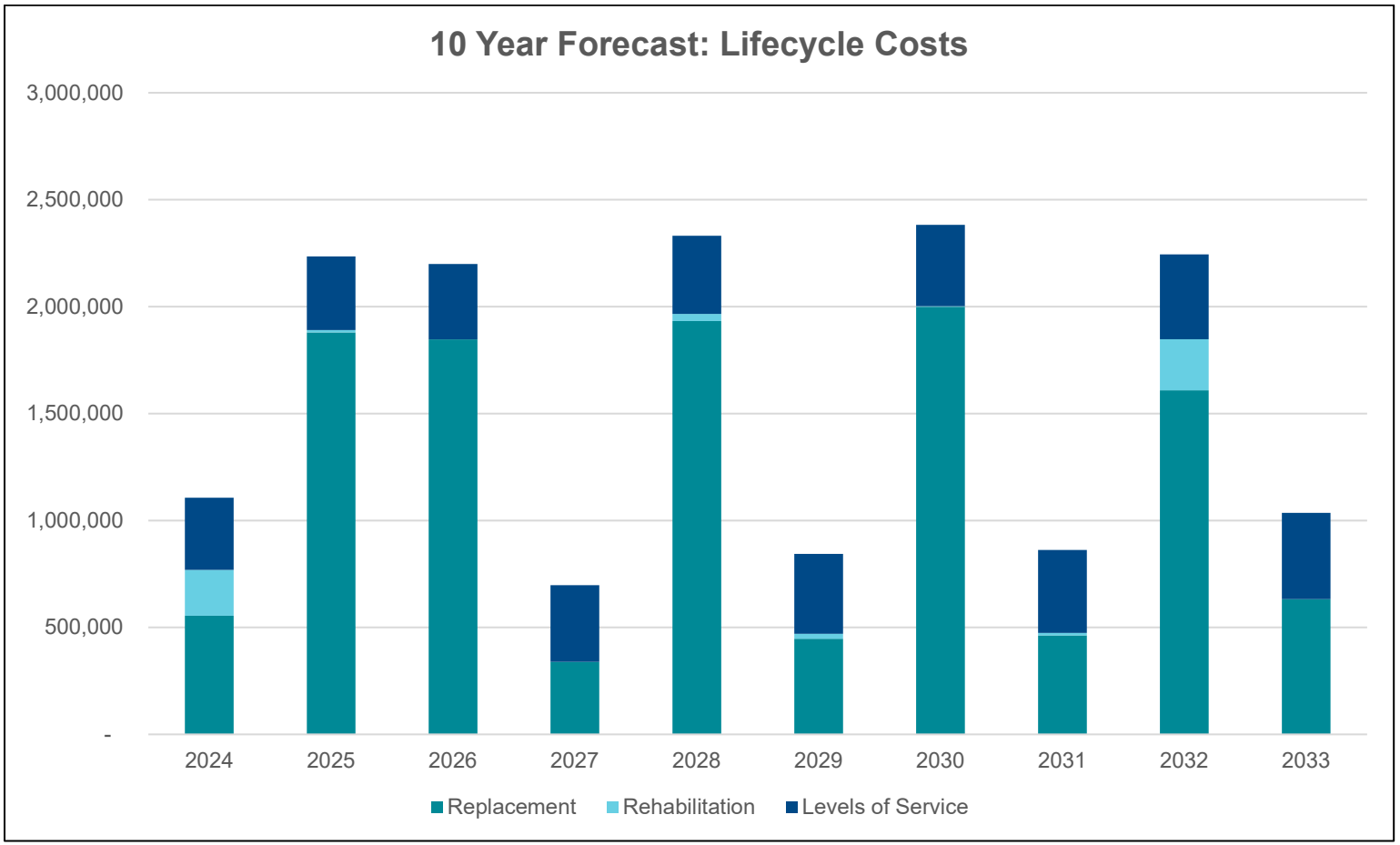
The following table provides a high-level summary of the 10-year forecast by cost type (i.e., asset replacement needs, asset rehabilitation needs, and levels of service recommendations) for tax supported core assets.

Table 5-3: Forecast Summary

Forecast - Tax Supported	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Replacement	554,554	1,879,251	1,847,032	339,186	1,932,694	447,457	1,999,288	462,805	1,608,539	632,523
Rehabilitation	214,200	11,444	-	-	33,122	22,523	2,872	11,717	239,019	-
Levels of Service	337,620	344,373	352,108	358,286	365,451	373,659	380,215	387,818	396,533	403,487
Total	**1,106,374**	**2,235,068**	**2,199,140**	**697,472**	**2,331,267**	**843,639**	**2,382,375**	**862,340**	**2,244,091**	**1,036,010**

Figure 5-1 shows the same forecast in graph form. As illustrated, there are minor fluctuations in annual lifecycle needs throughout the forecast.

Figure 5-1: Forecast Summary



As shown in Appendix C, the 10-year forecast has a recommended funding plan as follows:

Table 5-4: Capital Forecast with Funding Sources (Tax Supported Core Assets)

Asset Class	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Totals by Asset Class (Replacement, Rehabilitation and Levels of Service)											
Road Surface - Asphalt	315,874	117,334	41,387	94,556	54,100	192,944	44,799	198,011	474,396	338,745	**1,872,146**
Road Surface - Gravel	464,610	473,902	483,380	493,048	502,909	512,967	523,226	533,690	544,365	555,252	**5,087,349**
Road Base	20,400	20,808	21,224	21,649	22,082	22,523	22,974	23,433	23,902	24,380	**223,375**
Bridge & Culverts	242,760	1,559,039	1,587,036	21,649	1,684,275	45,046	1,717,860	35,150	1,126,973	24,380	**8,044,168**
Storm Water Mains	-	-	-	-	-	-	-	-	-	-	**-**
Catch Basin	1,530	1,561	1,592	1,624	1,656	1,689	1,723	1,757	1,793	1,828	**16,753**
Storm Manholes	-	-	-	-	-	-	-	-	-	-	**-**
Crossroad Culverts	61,200	62,424	63,672	64,946	66,245	67,569	68,921	70,299	71,706	91,425	**688,407**
Storm Ponds	-	-	-	-	-	-	2,872	-	-	-	**2,872**
Discharge Points	-	-	-	-	-	-	-	-	-	-	**-**
Wastewater	-	-	849	-	-	901	-	-	956	-	**2,706**
Total	**1,106,374**	**2,235,068**	**2,199,140**	**697,472**	**2,331,267**	**843,639**	**2,382,375**	**862,340**	**2,244,091**	**1,036,010**	**15,937,776**
Funding Analysis	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**Total**
Total Funding by Source											
Canada Community Building Fund (Gas Tax)	134,991	134,991	134,991	134,991	134,991	134,991	134,991	134,991	134,991	134,991	**1,349,910**
OCIF Funding	166,135	166,135	166,135	166,135	166,135	166,135	166,135	166,135	166,135	166,135	**1,661,350**
Transfer from Operations (for Core Infrastructure capital)	-	-	-	-	-	-	-	-	-	-	-
Transfer from/(to) Capital Reserves:											
Bridges & Asset Management Reserves	(89,760)	450,000	250,000	38,056	700,000	169,743	950,000	173,384	1,350,000	331,384	**4,322,807**
Canada Community Building Fund (Gas Tax) Reserve	557,388	105,882									**663,270**
Operating Funding (LOS Impacts)	337,620	344,370	351,260	358,290	365,460	372,770	380,230	387,830	395,590	403,500	**3,696,920**
Debt Funding (see section 2)		1,033,690	1,296,754		964,681		751,019		197,375		**4,243,519**
Total	**1,106,374**	**2,235,068**	**2,199,140**	**697,472**	**2,331,267**	**843,639**	**2,382,375**	**862,340**	**2,244,091**	**1,036,010**	**15,937,776**

As noted in Section 5.2 above, Canada Community Building Fund (Gas Tax) and OCIF funding are shown as funding sources in each year of the forecast period, reserves are used as a primary funding source, operating budget funding is used for levels of service recommendations that are considered operating in nature, and debt funding is used to finance the remaining funding needs each year.

Debt Funding (Tax Supported Core Infrastructure Only)

Debt funding is anticipated within the forecast period for tax supported core infrastructure. As shown above in Table 5-4, debt principal amounts of $4,243,519 is required in total from 2024 to 2033 to fund recommended tax supported core asset lifecycle needs. This assessment should be reviewed when other non-core assets are added to the asset management plan. Given that the Township's ability to use debt funding is restricted based on the province's debt capacity (annual repayment limit) calculations, and analysis of all current and proposed debt was completed (see Figure 5-2 and Figure 5-3).

Figure 5-2: Summary of Current and Proposed Debt Payments

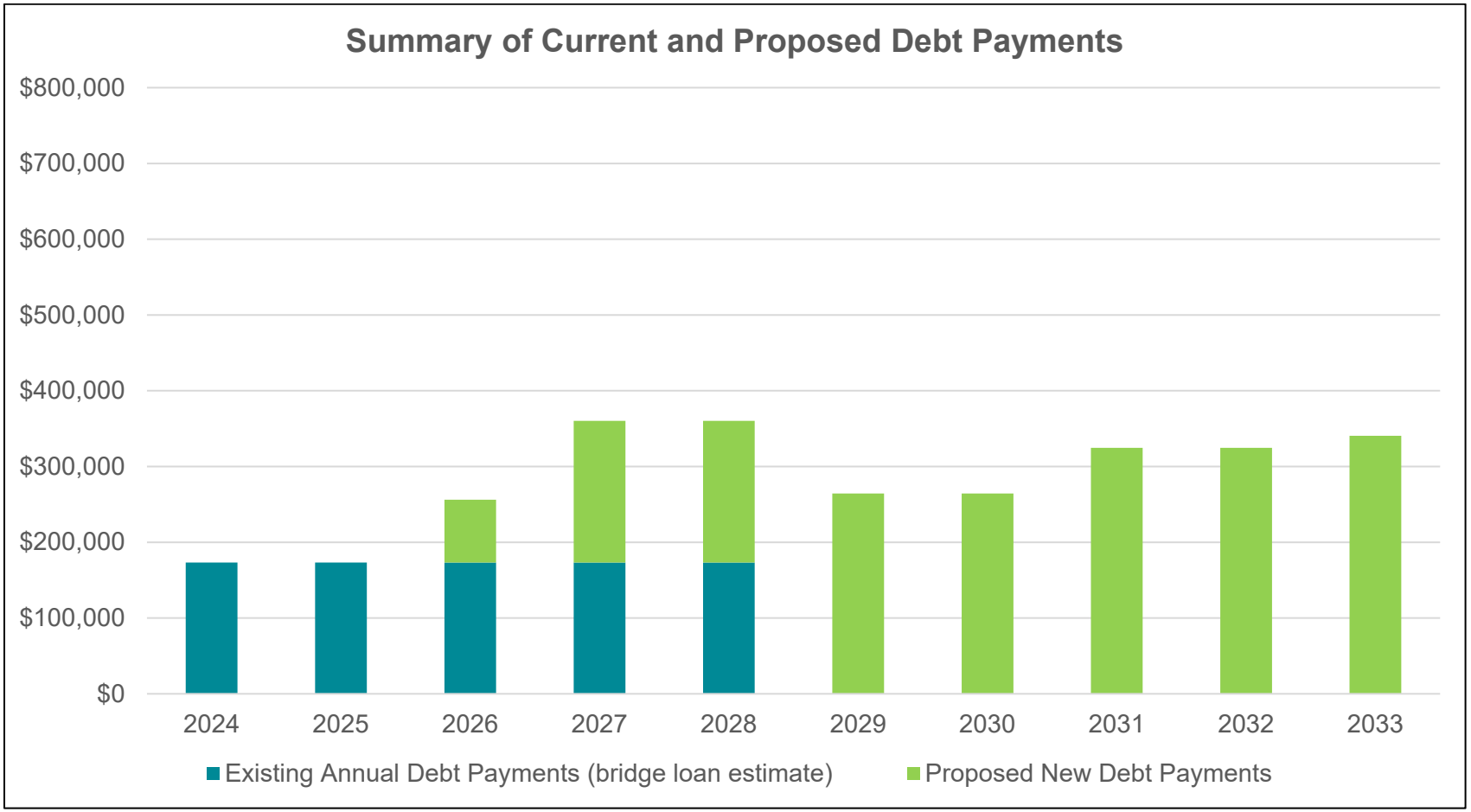


Figure 5-3: Percent of Annual Repayment Limit Used

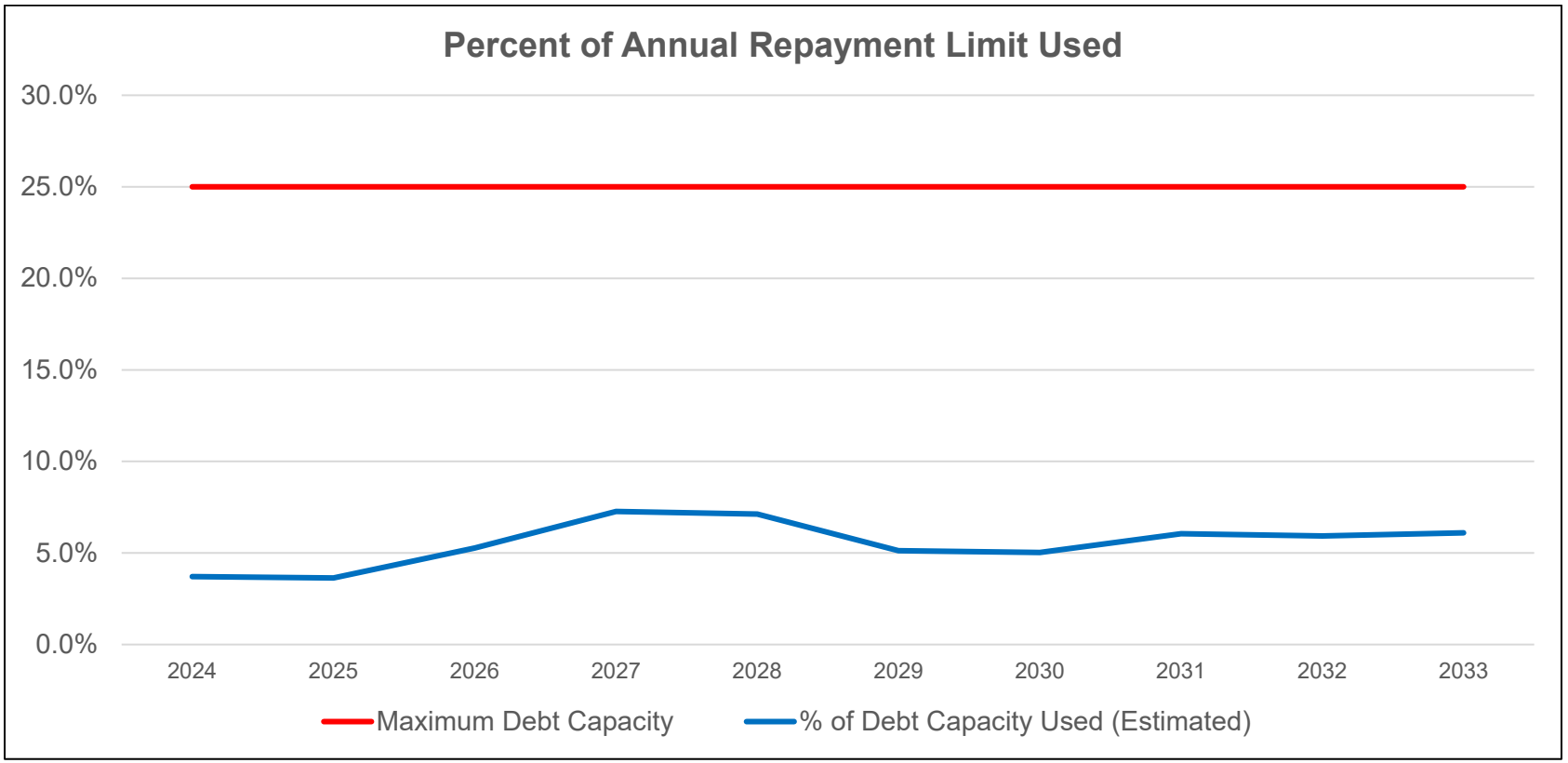


Figure 5-2 and Figure 5-3 above show that current and projected debt requirements are well within the annual debt capacity limits of 25% of Township revenues, reaching a maximum level of 7.3% of revenues in 2027. This leaves significant capacity for unplanned debt, if required. Future debt payments have been estimated assuming an interest rate of 5.0% over a 20-year term.

Reserve Funding (Tax Supported Core Infrastructure Only)

With reserve funding becoming a primary source of funding within this financing strategy, a recommended phased-in approach to increasing contributions to reserves is provided. Table 5-5 below outlines that no transfer is anticipated in 2023, however recommendations include a transfer of $88,290 in 2024 with increasing transfers annually, reaching $970,613 by 2033. This combined with anticipated grant funding allows the Township to reach an annual asset capital investment amount of $1,271,739 by 2033. This represents 100% of the optimal annual asset investment amount in 2033.

Table 5-5: Contributions to Reserves

Funding Type - Tax Supported (Core Infrastructure)	Budget	Forecast									
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Contribution to Reserve	-	88,290	205,665	243,674	264,279	392,744	593,525	701,734	753,014	867,968	970,613
Total	-	88,290	205,665	243,674	264,279	392,744	593,525	701,734	753,014	867,968	970,613
Transfer from Operations (Core Infrastructure)	-	-	-	-	-	-	-	-	-	-	-
Gas Tax Funding	134,991	134,991	134,991	134,991	134,991	134,991	134,991	134,991	134,991	134,991	134,991
OCIF Funding	166,135	166,135	166,135	166,135	166,135	166,135	166,135	166,135	166,135	166,135	166,135
Total Asset Investment	**301,126**	**389,416**	**506,791**	**544,800**	**565,405**	**693,870**	**894,651**	**1,002,860**	**1,054,140**	**1,169,094**	**1,271,739**

This analysis should be updated once other non-core assets have been included in this asset management plan. It is recommended that the existing “Bridges” and “Asset Management” Reserves be used to fund core infrastructure capital needs.

Operating Budget Funding (Tax Supported Core Infrastructure Only)

As discussed earlier in this chapter, the recommended financing strategy assumes that $00 will be available annually from the operating budget to fund core infrastructure capital needs.

From a levels of service perspective, many recommendations outlined in Section 3 are already implemented by the Township. Section 4 of Appendix C to this report outlines that some adjustments are needed to the Township’s operating budget to account for further levels of service impacts that are not currently funded.

If debt financing is needed to fund the recommended financing strategy, this has an impact on the Township’s operating budget going forward. It has also been assumed that when existing debt payments are complete, the budget space created will be used to either fund new debt or to increase transfers to reserves to fund the asset management plan recommendations. This is outlined in Appendix C and summarized below in Table 5-6.

Table 5-6: Increase in Funding Summary

Increase in Funding	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Increase (Decrease) in Transfers to Reserves	88,290	117,375	38,009	20,605	128,465	200,781	108,210	51,280	114,954	102,645
Increase (Decrease) in Operating - LOS	32,220	6,750	6,890	7,030	7,170	7,310	7,460	7,600	7,760	7,910
Increase (Decrease) in Operating - Debt	-	-	82,950	104,050	-	(95,790)	-	60,260	-	15,840
Total Impact on Annual Tax Supported Budget	**120,510**	**124,125**	**127,849**	**131,685**	**135,635**	**112,301**	**115,670**	**119,140**	**122,714**	**126,395**
Estimated Taxation Impact (1% in 2023 = $45,000)	**2.60%**	**2.60%**	**2.60%**	**2.60%**	**2.60%**	**2.09%**	**2.09%**	**2.09%**	**2.09%**	**2.09%**

Table 5-6 above outlines the total annual increase in funding recommended from 2024 to 2033. These increases can be incorporated through:

1. Finding efficiencies in the annual budget.
2. Increase in external funding (i.e., grants or third-party contributions).
3. Allocations of annual Township surpluses to capital reserves (if available).
4. Recommending budget (taxation) increases.

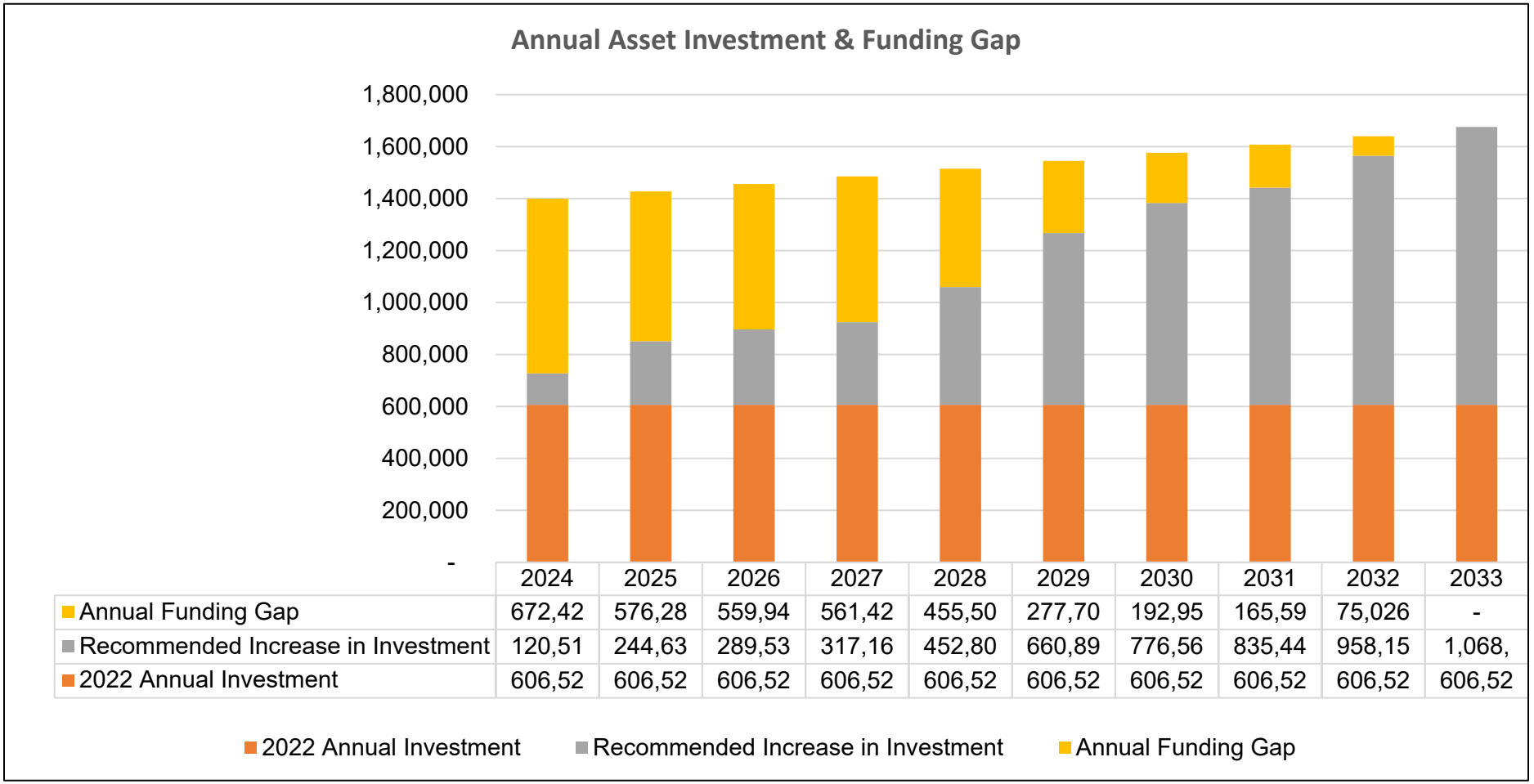
As shown in Table 5-6, if taxation increases are required each year to allow for the total recommended increases in funding (i.e., items 1, 2, and 3 above are not available), an increase in taxation would be required annually. This increase is estimated to be 2.6% per year from 2024 to 2028 and 2.09% thereafter. Taxation rate increases are higher in the first five years in order to build the annual asset investment and minimize the need for additional debt. This calculation assumes 2.0% inflation and 1.0% assessment growth annually within the Township's operating budget.

Funding Gap (Tax Supported Core Infrastructure Only)

Table 5-4 below provides an overall summary of the recommended annual investment levels (shown in orange and gray) as well as the funding gap (shown in yellow). The funding recommendations outlined in this chapter ensure the funding gap is eliminated (for tax supported core infrastructure only) by 2033.

Table 5-4 below provides an overall summary of the recommended annual investment levels (shown in orange and gray) as well as the funding gap (shown in yellow). The funding recommendations outlined in this chapter ensure the funding gap is eliminated (for core infrastructure only) by 2032.

Figure 5-4: Annual Asset Investment & Funding Gap



	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Annual Funding Gap	672,42	576,28	559,94	561,42	455,50	277,70	192,95	165,59	75,026	-
Recommended Increase in Investment	120,51	244,63	289,53	317,16	452,80	660,89	776,56	835,44	958,15	1,068,
2022 Annual Investment	606,52	606,52	606,52	606,52	606,52	606,52	606,52	606,52	606,52	606,52

Figure 5-4 is also provided in Appendix C to this report, along with detailed figures to support the calculations.

5.6 Water Rate Supported Assets

Based on an analysis of the Township's water assets in terms of replacement cost and useful life, the following summary of optimal annual asset investment has been created.

Table 5-7: Optimal Asset Investment Summary (Water Supported Core Assets)

Water / Wastewater Core Infrastructure	Replacement Cost	Weighted Average Useful Life	Annual Replacement Investment
Water Facilities & Components	$1,964,500	72	$27,300
Water Mains	$6,687,829	100	$66,900
Water Fittings	$383,000	75	$5,100
Hydrant	$225,000	50	$4,500
Hydrant Laterals	$36,000	100	$400
Water System Valves	$690,000	75	$9,200
Wells	$230,000	46	$5,000
Total Water	**$10,216,329**		**$118,400**

* excludes other non-core assets

In summary, an annual asset investment of $118,400 is needed to fund long-term asset management planning needs for water core infrastructure. This does not include other non-core assets that have been excluded from this asset management plan.

These optimal investment amounts become the funding target over the forecast period. However, this target increases over time as inflation increases this amount annually. Assuming 2% annual inflation, the target annual capital asset investment amount becomes approximately $150,000 by the year 2033.

The Township's 2020 Water Financial Plan provides for increasing contributions to water capital reserves:

- Water: A contribution of $79,279 by 2030

The annual contributions to reserves are lower in the Water Financial Plan in comparison to the asset management recommendations discussed above. It is believed that the Water Financial Plan is recommending a slightly longer timeline to achieve optimal annual investment levels (i.e., beyond 2033). Given that there are no significant water capital projects shown in the Water Financial Plan, this approach should not limit the Township's ability to fund anticipated capital needs in the short term, however a

change to water financial planning should be considered in the future to align optimal annual water asset investment timing with tax supported assets (i.e., reaching optimal annual funding in 2033).

The 2020 Water Financial Plan also recommends incurring $139,920 in water related debt from 2021 to 2030. This is insignificant in comparison to the Township's estimated annual debt capacity (discussed above in this chapter) and does not impact debt recommendations provided.

It is recommended that the Township consider a more accelerated transition to optimal annual investment for water assets in the next update to the Water Financial Plan.

6.0 Recommendations

The following recommendations have been provided for the Township of Amaranth's consideration:

- that this Asset Management Plan be received and approved by the Township of Amaranth Council; and,
- that consideration of this Asset Management Plan be given as part of the annual budgeting process to ensure sufficient capital funds are available to fund capital requirements over the 10-year period.

The current level of funding for asset replacement and renewal at the Township will not sufficiently fund required capital needs or close the infrastructure funding gap. As such, it is recommended that the following be considered:

- That the "levels of service" strategies discussed in this report be approved;
- The Township use the "Bridges" and "Asset Management" Reserves to fund core infrastructure capital needs;
- The Township use capital reserves as the primary source of asset investment annually. Funds should flow from the operating budget to these reserves, which are then used to fund capital projects;
- The Township increase asset management funding as outlined in Table 5-6;
- The Township transfer annual surpluses to capital reserves;
- The Township dedicate any budget savings from the elimination of debt payments to funding asset management needs (i.e., either new debt or transfers to reserves);
- The Township update the financing strategy to account for other non-core as well as any road base replacement needs in the future;
- The Township consider a more accelerated transition to optimal annual investment for water assets in the next update to the Water Financial Plan;
- That this Asset Management Plan be updated as per the Township's Asset Management Strategy Policy; and,
- The Township consider the capital priorities identified within this report when applying for future grants or deciding on how to utilize Gas Tax, OCIF funding, and/or other funding that becomes available.

Substantial investment in asset capital needs will be required over the 10-year forecast period and beyond. Through the recommendations provided above, proactive steps will be made to increase capital investment, as well as reduce the annual infrastructure funding gap for the Township's core tax supported assets. Enhanced maintenance plans will assist in maintaining adequate asset conditions, mitigate asset risk as well as potentially defer capital needs within the forecast period. In addition, the Township of Amaranth is recommended to pursue all available capital grants wherever possible to further reduce the infrastructure funding gap.

Through the creation of this plan, the Township has been provided with Excel spreadsheets in which amendments and revisions can be made as needed by the Township. It is anticipated that this plan adopted by the Township of Amaranth Council will be monitored and updated frequently as part of the budget process, with refinements and specific recommendations being provided with respect to the priority of each individual project.

BURNSIDE

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Appendix A

Municipality Asset Inventory & Asset Management Plan Assumptions

Water - Facilities Components Inventory water rate funded

Fixed Asset #	Asset Name - Facility Components	Description	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization System	2021 Net Book Value System	Replacement Cost	Condition Based On Useful Life	Condition	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure
							$ 1,398,882	$ 1,023,639	$ 375,243	$ 1,964,500							
	Waldemar Water Plant																
3020	Pumping Station		1991	100	70	30	$740,247	$740,247	$0	$750,000	7	8	8	Good	Unlikely	Major	M
4004	Pumping Station Roof		2011	25	15	10	$3,562	$1,567	$1,995	$6,000	6	7	7	Good	Unlikely	Major	M
4394	Process Piping and Valves		2021	20	20	0	$137,743	$6,887	$130,856	$140,000	10		10	Very Good	Rare	Major	M
	Reservoir	Water Treatment Plant	1991	75	45	30	$240,086	$96,034	$144,052	$500,000	6		6	Average	Possible	Major	H
4006	Water System 2 Hydraulic Pumps	Unknown / Generic	2011	15	5	10	$26,458	$19,402	$7,055	$35,000	3	7	7	Good	Unlikely	Major	M
4007	Water system pumps	Unknown / Generic	2012	15	6	9	$24,422	$16,282	$8,141	$27,500	4	7	7	Good	Unlikely	Major	M
	Chemical System	Water Treatment Plant	1991	25	0	30	$28,810	$28,810	$0	$75,000	0	7	7	Good	Unlikely	Major	M
	Scada & Electrical	Water Treatment Plant	1991	75	45	30	$120,043	$48,017	$72,026	$250,000	6		6	Average	Possible	Major	H
	Scada Laptop	Water Treatment Plant	2020	4	3	1	$2,500	$625	$1,875	$3,000	8		8	Good	Unlikely	Major	M
	Scada Data Logger	Water Treatment Plant	2014	10	3	7	$4,000	$2,800	$1,200	$5,000	3	5	5	Average	Possible	Major	H
	Raw Water Meters	Water Treatment Plant	2014	10	3	7	$8,000	$5,600	$2,400	$10,000	3	5	5	Average	Possible	Major	H
	Treated Water Meters		2015	10	4	6	$3,500	$2,100	$1,400	$4,000	4	5	5	Average	Possible	Major	H
	Water Level Transducers	Water Treatment Plant	2020	10	9	1	$2,500	$250	$2,250	$3,000	9		9	Very Good	Rare	Major	M
	Generator	Water Treatment Plant	1991	25	0	30	$48,017	$48,017	$0	$150,000	0	8	8	Good	Unlikely	Major	M
	Sub-Total				**46**	**27**	**$1,389,888**	**$1,016,639**	**$373,249**	**$1,958,500**			**7.3**				
	Acchione Pumping Station																
4035	Former Acchione Pumphouse		1985	100	64	36	$5,433	$5,433	$0	Not to be replaced	6	7	7	Good	Unlikely	Minor	L
4003	Former Acchione Pumphouse Roof		2011	25	15	10	$3,562	$1,567	$1,995	$6,000	6	7	7	Good	Unlikely	Minor	L
	Sub-Total						**$8,995**	**$7,000**	**$1,995**	**$6,000**			**7.0**				

Water - Facilities Components Inventory water rate funded

Fixed Asset #	Asset Name - Facility Components	Numerical Value of Risk of Failure	Year Replacement due to minimal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life		Proposed Rehabilitation Cost (2021 $)	Year for Rehabilitation	2nd Proposed Rehabilitation Cost (2016 $)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current + Condition better then expected for age	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
										$ -									
	Waldemar Water Plant																		
3020	Pumping Station	2	2081	10	2091	2091	2191	70							5	2096	2096	2196	74
4004	Pumping Station Roof	2	2034	10	2037	2037	2063	16							5	2038	2038	2063	16
4394	Process Piping and Valves	2	2039	10	2041	2041	2061	20		$50,000	2026	$12,000	2028	10	0	2036	2036	2056	14
	Reservoir	3	2059	10	2067	2062	2137	46							0	2067	2059	2134	37
4006	Water System 2 Hydraulic Pumps	2	2025	10	2027	2027	2043	6		$10,000	2024			10	30	2034	2034	2049	12
4007	Water system pumps	2	2026	10	2028	2028	2044	7		$3,000	2024	$2,500	2028	10		2034	2034	2049	12
	Chemical System	2	2014	10	2017	2017	2043	1		$7,000	2024			10	60	2034	2034	2059	12
	Scada & Electrical	3	2059	10	2067	2062	2137	46							0	2067	2059	2134	37
	Scada Laptop	2	2024	10	2024	2024	2028	8							0	2024	2024	2028	2
	Scada Data Logger	3	2023	10	2024	2024	2034	8							10	2025	2024	2034	2
	Raw Water Meters	3	2023	10	2024	2024	2034	8							10	2025	2024	2034	2
	Treated Water Meters	3	2024	10	2025	2025	2035	9							5	2026	2029	2039	7
	Water Level Transducers	2	2029	10	2030	2030	2040	14							0	2030	2030	2040	8
	Generator	2	2014	10	2017	2017	2043	1							70	2035	2035	2060	13
	Sub-Total	**2.4**								**$70,000**									
	Acchione Pumping Station																		
4035	Former Acchione Pumphouse	1	2075	10	2085	2085	2185	64							5	2090	2090	2190	68
4003	Former Acchione Pumphouse Roof	1	2034	10	2037	2037	2063	16							5	2038	2038	2063	16
	Sub-Total	**1.0**								**$0**									

Water - Pressurized Main Inventory
water rate funded

Fixed Asset #	Subtype	Asset Name	Diameter (mm)	Length (m)	Material	Street Name	Street I.D.	From	To	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization System	2021 Net Book Value System	Replacement Cost (2021)	Condition Based On Useful Life	Condition from Town	Condition Used for Analysis
																	$ 6,687,829.41			
				4,939							100	72	28	$ 3,353,600	$ 937,499	$ 2,416,101	$ 6,687,829			7
2822	Distribution Main	Distribution Main	200	154	PVC	Mill Street	2422	STATION STREET	HENRY STREET	2006	100	85	15	$ 140,000	$ 22,400	$ 117,600	$ 213,141	9		9
2823	Distribution Main	Distribution Main	200	64	HDPE	Station Street	2397	10TH LINE	ST. JOHN STREET	2006	100	85	15	$ 57,661	$ 9,226	$ 48,435	$ 87,784	9		9
2824	Distribution Main	Distribution Main	200	205	PVC	Station Street	2397	10TH LINE	ST. JOHN STREET	2006	100	85	15	$ 185,496	$ 29,679	$ 155,817	$ 282,405	9		9
2825	Distribution Main	Distribution Main	200	7	PVC	Station Street	2397	10TH LINE	ST. JOHN STREET	2006	100	85	15	$ 6,740	$ 1,078	$ 5,662	$ 10,261	9		9
2826	Raw Water Main	Raw Watermain	100	645	PVC	Station Street	2397	10TH LINE	ST. JOHN STREET	2006	100	85	15	$ 572,505	$ 91,601	$ 480,904	$ 871,597	9		9
2827	Distribution Main	Distribution Main	150	237	PVC	St. John Street	2416	STATION STREET	RUSSEL HILL ROAD	1990	100	69	31	$ 153,435	$ 49,099	$ 104,336	$ 320,701	7		7
2828	Distribution Main	Distribution Main	150	28	PVC	St. John Street	2416	STATION STREET	RUSSEL HILL ROAD	1990	100	69	31	$ 18,407	$ 5,890	$ 12,516	$ 38,472	7		7
2829	Distribution Main	Distribution Main	150	24	PVC	Russel Hill Road	2419	ST. JOHN STREET	PETER STREET	1990	100	69	31	$ 15,329	$ 4,905	$ 10,423	$ 32,039	7		7
2830	Distribution Main	Distribution Main	150	74	PVC	St. John Street	2417	RUSSEL HILL ROAD	PETER STREET	1990	100	69	31	$ 47,595	$ 15,230	$ 32,364	$ 99,480	7		7
2831	Distribution Main	Distribution Main	150	121	PVC	St. John Street	2417	RUSSEL HILL ROAD	PETER STREET	1990	100	69	31	$ 78,119	$ 24,998	$ 53,121	$ 163,279	7		7
2832	Distribution Main	Distribution Main	150	265	PVC	St. John Street	2417	RUSSEL HILL ROAD	PETER STREET	1990	100	69	31	$ 171,224	$ 54,792	$ 116,432	$ 357,882	7		7
2833	Distribution Main	Distribution Main	150	32	PVC	Russel Hill Road	2418	PETER STREET / PETER COURT	PETER STREET	1990	100	69	31	$ 20,956	$ 6,706	$ 14,250	$ 43,801	7		7
2834	Distribution Main	Distribution Main	150	21	PVC	Peter Court	3044	PETER STREET	END OF PETER COURT	1990	100	69	31	$ 13,743	$ 4,398	$ 9,345	$ 28,725	7		7
2835	Distribution Main	Distribution Main	50	138	Copper	Peter Court	3044	PETER STREET	END OF PETER COURT	1990	100	69	31	$ 88,966	$ 28,469	$ 60,497	$ 185,951	7		7
2836	Distribution Main	Distribution Main	150	229	PVC	Russel Hill Road	2418	PETER STREET / PETER COURT	PETER STREET	1990	100	69	31	$ 148,225	$ 47,432	$ 100,793	$ 309,810	7		7
2837	Distribution Main	Distribution Main	150	180	PVC	Russel Hill Road	2418	PETER STREET / PETER COURT	PETER STREET	1990	100	69	31	$ 116,397	$ 37,247	$ 79,150	$ 243,286	7		7
2838	Distribution Main	Distribution Main	150	31	PVC	Russel Hill Road	2418	PETER STREET / PETER COURT	PETER STREET	1990	100	69	31	$ 20,036	$ 6,411	$ 13,624	$ 41,877	7		7
2839	Distribution Main	Distribution Main	150	251	PVC	Russel Hill Road	2419	ST. JOHN STREET	PETER STREET	1990	100	69	31	$ 162,501	$ 52,000	$ 110,500	$ 339,649	7		7
2840	Distribution Main	Distribution Main	150	10	PVC	Peter Street	2420	RUSSEL HILL ROAD	PETER STREET / PETER COURT	1990	100	69	31	$ 6,339	$ 2,028	$ 4,310	$ 13,248	7		7
2841	Distribution Main	Distribution Main	150	193	PVC	Peter Street	2420	RUSSEL HILL ROAD	PETER STREET / PETER COURT	1990	100	69	31	$ 124,521	$ 39,847	$ 84,675	$ 260,267	7		7
2842	Distribution Main	Distribution Main	150	118	PVC	Peter Street	2420	RUSSEL HILL ROAD	PETER STREET / PETER COURT	1990	100	69	31	$ 76,040	$ 24,333	$ 51,707	$ 158,935	7		7
2843	Distribution Main	Distribution Main	150	11	PVC	Peter Street	2420	RUSSEL HILL ROAD	PETER STREET / PETER COURT	1990	100	69	31	$ 7,096	$ 2,271	$ 4,825	$ 14,831	7		7
2844	Raw Water Main	Raw Watermain	75	337	PVC	St. John Street	2416	STATION STREET	RUSSEL HILL ROAD	1990	100	69	31	$ 217,523	$ 69,607	$ 147,916	$ 454,654	7		7
2845	Raw Water Main	Raw Watermain	75	660	PVC	Russel Hill Road	2419	ST. JOHN STREET	PETER STREET	1990	100	69	31	$ 426,834	$ 136,587	$ 290,247	$ 892,143	7		7
2846	Distribution Main	Distribution Main	150	3	PVC	St. John Street	2416	STATION STREET	RUSSEL HILL ROAD	1990	100	69	31	$ 1,991	$ 637	$ 1,354	$ 4,161	7		7
2847	Distribution Main	Distribution Main	150	19	PVC	Evans Avenue	2426	JAMES STREET	END	1986	100	65	35	$ 9,716	$ 3,498	$ 6,219	$ 25,073	7		7
2848	Distribution Main	Distribution Main	150	73	PVC	Evans Avenue	2427	JAMES STREET	HENRY STREET	1986	100	65	35	$ 38,310	$ 13,792	$ 24,519	$ 98,857	7		7
2849	Distribution Main	Distribution Main	150	102	PVC	James Street	2447	EVANS AVENUE	END OF JAMES STREET	1986	100	65	35	$ 53,518	$ 19,267	$ 34,252	$ 138,101	7		7
2850	Distribution Main	Distribution Main	150	27	PVC	James Street	2447	EVANS AVENUE	END OF JAMES STREET	1986	100	65	35	$ 14,255	$ 5,132	$ 9,123	$ 36,784	7		7
2851	Distribution Main	Distribution Main	150	10	PVC	James Street	2447	EVANS AVENUE	END OF JAMES STREET	1986	100	65	35	$ 5,301	$ 1,908	$ 3,393	$ 13,680	7		7
2852	Distribution Main	Distribution Main	150	118	PVC	James Street	2447	EVANS AVENUE	END OF JAMES STREET	1986	100	65	35	$ 61,889	$ 22,280	$ 39,609	$ 159,702	7		7
2853	Distribution Main	Distribution Main	200	31	PVC	James Street	2447	EVANS AVENUE	END OF JAMES STREET	1986	100	65	35	$ 16,344	$ 5,884	$ 10,460	$ 42,175	7		7
2854	Distribution Main	Distribution Main	200	16	PVC	James Street	2447	EVANS AVENUE	END OF JAMES STREET	1986	100	65	35	$ 8,399	$ 3,024	$ 5,375	$ 21,672	7		7
2855	Distribution Main	Distribution Main	300	22	PVC	James Street	2447	EVANS AVENUE	END OF JAMES STREET	1986	100	65	35	$ 11,661	$ 4,198	$ 7,463	$ 30,091	7		7
2856	Distribution Main	Distribution Main	150	1	PVC	James Street	2447	EVANS AVENUE	END OF JAMES STREET	1986	100	65	35	$ 650	$ 234	$ 416	$ 1,679	7		7
2857	Distribution Main	Distribution Main	150	1	PVC	James Street	2447	EVANS AVENUE	END OF JAMES STREET	1986	100	65	35	$ 575	$ 207	$ 368	$ 1,483	7		7
2858	Distribution Main	Distribution Main	200	1	PVC	James Street	2447	EVANS AVENUE	END OF JAMES STREET	1986	100	65	35	$ 778	$ 280	$ 498	$ 2,008	7		7
2859	Distribution Main	Distribution Main	150	35	PVC	Henry Street	2412	EVANS STREET	END	1986	100	65	35	$ 18,115	$ 6,521	$ 11,594	$ 46,746	7		7
2860	Distribution Main	Distribution Main	150	46	PVC	Henry Street	2412	EVANS STREET	END	1986	100	65	35	$ 24,020	$ 8,647	$ 15,373	$ 61,982	7		7
2861	Distribution Main	Distribution Main	150	8	PVC	Evans Avenue	2427	JAMES STREET	HENRY STREET	1986	100	65	35	$ 4,244	$ 1,528	$ 2,716	$ 10,952	7		7
2862	Distribution Main	Distribution Main	150	106	PVC	Main Street	2451	DAVID STREET	HENRY STREET	1986	100	65	35	$ 55,317	$ 19,914	$ 35,403	$ 142,742	7		7
2863	Distribution Main	Distribution Main	150	2	PVC	Main Street	2451	DAVID STREET	HENRY STREET	1986	100	65	35	$ 1,133	$ 408	$ 725	$ 2,924	7		7
2864	Distribution Main	Distribution Main	150	6	PVC	Main Street	2451	DAVID STREET	HENRY STREET	1986	100	65	35	$ 3,380	$ 1,217	$ 2,163	$ 8,722	7		7
2865	Distribution Main	Distribution Main	150	209	PVC	Main Street	2451	DAVID STREET	HENRY STREET	1986	100	65	35	$ 109,299	$ 39,348	$ 69,951	$ 282,041	7		7
2866	Distribution Main	Distribution Main	150	37	PVC	Henry Street	2413	MAIN STREET	EVANS STREET	1986	100	65	35	$ 19,229	$ 6,922	$ 12,307	$ 49,620	7		7
2867	Distribution Main	Distribution Main	150	2	PVC	Henry Street	2413	MAIN STREET	EVANS STREET	1986	100	65	35	$ 1,306	$ 470	$ 836	$ 3,370	7		7
2868	Distribution Main	Distribution Main	200	2	PVC	James Street	2447	EVANS AVENUE	END OF JAMES STREET	1986	100	65	35	$ 840	$ 302	$ 537	$ 2,167	7		7
3141	Distribution Main	Distribution Main	150	27	PVC	Peter Court	3044	PETER STREET	END OF PETER COURT	1990	100	69	31	$ 17,645	$ 5,646	$ 11,998	$ 36,880	7		7

Water - Pressurized Main Inventory
water rate funded

Fixed Asset #	Subtype	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life	Proposed Rehabilitation Cost (2021 $)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current + Condition better then expected for age	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
						1.0							$0							
2822	Distribution Main	Very Good	Rare	Minor	L	1	2096	10	2106	2106	2206	84				0	2106	2106	2206	84
2823	Distribution Main	Very Good	Rare	Minor	L	1	2096	10	2106	2106	2206	84				0	2106	2106	2206	84
2824	Distribution Main	Very Good	Rare	Minor	L	1	2096	10	2106	2106	2206	84				0	2106	2106	2206	84
2825	Distribution Main	Very Good	Rare	Minor	L	1	2096	10	2106	2106	2206	84				0	2106	2106	2206	84
2826	Raw Water Main	Very Good	Rare	Minor	L	1	2096	10	2106	2106	2206	84				0	2106	2106	2206	84
2827	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2828	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2829	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2830	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2831	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2832	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2833	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2834	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2835	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2836	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2837	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2838	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2839	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2840	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2841	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2842	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2843	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2844	Raw Water Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2845	Raw Water Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2846	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68
2847	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2848	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2849	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2850	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2851	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2852	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2853	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2854	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2855	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2856	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2857	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2858	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2859	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2860	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2861	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2862	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2863	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2864	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2865	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2866	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2867	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
2868	Distribution Main	Good	Unlikely	Minor	L	1	2076	10	2086	2086	2186	64				0	2086	2086	2186	64
3141	Distribution Main	Good	Unlikely	Minor	L	1	2080	10	2090	2090	2190	68				0	2090	2090	2190	68

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Water - Fittings Inventory water rate funded

FIXED ASSET ID	Subtype	Asset Name - Equipment	Asset Type	Material	Diameter	Road GIS ID	Road Name	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization	2021 Net Book Value	Replacement Cost	Condition Based On Age	Condition (from Staff Assessment)	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)
									75	43	32	$ 205,733	$ 136,984	$ 68,748	$ 383,000			5.6		
2951	Water - Fitting	Tee Fitting	Tee	PVC	150	2418	Russel Hill Road	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2952	Water - Fitting	Tee Fitting	Tee	PVC	150	2419	Russel Hill Road	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2953	Water - Fitting	Tee Fitting	Tee	PVC	150	2419	Russel Hill Road	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2954	Water - Fitting	Tee Fitting	Tee	PVC	150	2419	Russel Hill Road	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2955	Water - Fitting	Tee Fitting	Tee	PVC	150	2419	Russel Hill Road	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2956	Water - Fitting	Cap Fitting	Cap	PVC	150	2416	St. John Street	1990	75	44	31	$5,726	$3,665	$2,061	$10,000	6		6	Average	Possible
2957	Water - Fitting	Tee Fitting	Tee	PVC	150	2416	St. john Street	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2958	Water - Fitting	Tee Fitting	Tee	PVC	150	2416	St. John Street	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2959	Water - Fitting	Tee Fitting	Tee	PVC	150	2417	St. John Street	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2960	Water - Fitting	Tee Fitting	Tee	PVC	150	2417	St. John Street	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2961	Water - Fitting	Tee Fitting	Tee	PVC	150	2417	St. John Street	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2962	Water - Fitting	Tee Fitting	Tee	PVC	150	2417	St. John Street	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2963	Water - Fitting	Tee Fitting	Tee	PVC	150	2417	St. John Street	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2964	Water - Fitting	Tee Fitting	Tee	PVC	150	2835	Peter Court	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2965	Water - Fitting	Tee Fitting	Tee	PVC	150	2418	Russel Hill Road	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2966	Water - Fitting	Tee Fitting	Tee	PVC	150	2420	Peter Street	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2967	Water - Fitting	Tee Fitting	Tee	PVC	150	2427	Evans Avenue	1986	75	40	35	$4,695	$3,380	$1,315	$10,000	5		5	Average	Possible
2968	Water - Fitting	Cap Fitting	Cap	PVC	150	2412	Henry Street	1986	75	40	35	$4,638	$3,339	$1,299	$10,000	5		5	Average	Possible
2969	Water - Fitting	Cap Fitting	Cap	PVC	150	2447	James Street	1986	75	40	35	$4,638	$3,339	$1,299	$10,000	5		5	Average	Possible
2970	Water - Fitting	Cap Fitting	Cap	PVC	150	2426	Evans Avenue	1986	75	40	35	$4,638	$3,339	$1,299	$10,000	5		5	Average	Possible
2971	Water - Fitting	Tee Fitting	Cap	PVC	150	2426	Evans Avenue	1986	75	40	35	$4,695	$3,380	$1,315	$10,000	5		5	Average	Possible
2972	Water - Fitting	Tee Fitting	Tee	PVC	150	2447	James Street	1986	75	40	35	$4,695	$3,380	$1,315	$10,000	5		5	Average	Possible
2973	Water - Fitting	Cross Fitting	Cross	PVC	200	2447	James Street	1986	75	40	35	$4,894	$3,524	$1,370	$10,500	5		5	Average	Possible
2974	Water - Fitting	Reducer Fitting	Reducer	PVC	200	2447	James Street	1986	75	40	35	$4,894	$3,524	$1,370	$10,500	5		5	Average	Possible
2975	Water - Fitting	Reducer Fitting	Reducer	PVC	200	2447	James Street	1986	75	40	35	$4,894	$3,524	$1,370	$10,500	5		5	Average	Possible
2976	Water - Fitting	Reducer Fitting	Reducer	PVC	300	2447	James Street	1986	75	40	35	$4,894	$3,524	$1,370	$10,500	5		5	Average	Possible
2977	Water - Fitting	Cross Fitting	Cross	PVC	200	2417	St. John Street	1990	75	44	31	$6,042	$3,867	$2,175	$10,500	6		6	Average	Possible
2978	Water - Fitting	Tee Fitting	Tee	PVC	150	2416	St. John Street	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2979	Water - Fitting	Tee Fitting	Tee	PVC	150	2420	Peter Street	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2980	Water - Fitting	Tee Fitting	Tee	PVC	150	2418	Russel Hill Road	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2981	Water - Fitting	Tee Fitting	Tee	PVC	150	2418	Russel Hill Road	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2982	Water - Fitting	Tee Fitting	Tee	PVC	150	2418	Russel Hill Road	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2983	Water - Fitting	Tee Fitting	Tee	PVC	150	2835	Peter Court	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2984	Water - Fitting	Tee Fitting	Tee	PVC	150	2413	Henry Street	1990	75	44	31	$5,796	$3,710	$2,087	$10,000	6		6	Average	Possible
2985	Water - Fitting	Cap Fitting	Cap	PVC	200	2447	James Street	1986	75	40	35	$4,638	$3,339	$1,299	$10,000	5		5	Average	Possible
2986	Water - Fitting	Reducer Fitting	Reducer	PVC	300	2447	James Street	1986	75	40	35	$4,894	$3,524	$1,370	$10,500	5		5	Average	Possible
2987	Water - Fitting	Cap Fitting	Cap	PVC	150	2864	Main Street	1986	75	40	35	$4,638	$3,339	$1,299	$10,000	5		5	Average	Possible
2988	Water - Fitting	Tee Fitting	Tee	PVC	150	2864	Main Street	1986	75	40	35	$4,695	$3,380	$1,315	$10,000	5		5	Average	Possible

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Water - Fittings Inventory water rate funded

FIXED ASSET ID	Subtype	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life		Proposed Rehabilitation Cost (2021 $)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
				2.0								$ -							
2951	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2952	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2953	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2954	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2955	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2956	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2957	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2958	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2959	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2960	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2961	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2962	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2963	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2964	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2965	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2966	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2967	Water - Fitting	Minor	M	2	2054	10	2062	2062	2138	40						2062	2062	2137	40
2968	Water - Fitting	Minor	M	2	2054	10	2062	2062	2138	40						2062	2062	2137	40
2969	Water - Fitting	Minor	M	2	2054	10	2062	2062	2138	40						2062	2062	2137	40
2970	Water - Fitting	Minor	M	2	2054	10	2062	2062	2138	40						2062	2062	2137	40
2971	Water - Fitting	Minor	M	2	2054	10	2062	2062	2138	40						2062	2062	2137	40
2972	Water - Fitting	Minor	M	2	2054	10	2062	2062	2138	40						2062	2062	2137	40
2973	Water - Fitting	Minor	M	2	2054	10	2062	2062	2138	40						2062	2062	2137	40
2974	Water - Fitting	Minor	M	2	2054	10	2062	2062	2138	40						2062	2062	2137	40
2975	Water - Fitting	Minor	M	2	2054	10	2062	2062	2138	40						2062	2062	2137	40
2976	Water - Fitting	Minor	M	2	2054	10	2062	2062	2138	40						2062	2062	2137	40
2977	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2978	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2979	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2980	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2981	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2982	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2983	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2984	Water - Fitting	Minor	M	2	2058	10	2066	2066	2142	44						2066	2066	2141	44
2985	Water - Fitting	Minor	M	2	2054	10	2062	2062	2138	40						2062	2062	2137	40
2986	Water - Fitting	Minor	M	2	2054	10	2062	2062	2138	40						2062	2062	2137	40
2987	Water - Fitting	Minor	M	2	2054	10	2062	2062	2138	40						2062	2062	2137	40
2988	Water - Fitting	Minor	M	2	2054	10	2062	2062	2138	40						2062	2062	2137	40

Water - Hydrants Inventory water rate funded

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FIXED ASSET ID	Subtype	Asset Name	Road GIS ID	Road Name	Road From	Road To	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization System	2021 Net Book Value System	Replacement Cost	Condition Based On Useful Life	Staff Assessed Condition	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure
														$ 225,000						
								50	19	31	$ 151,762	$ 97,127	$ 54,635	$ 225,000			6.0			
2933	Hydrant - Generic/Unknown	Fire Hydrant	2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate
2934	Hydrant - Generic/Unknown	Fire Hydrant	2416	St. John Street	STATION STREET	RUSSEL HILL ROAD	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate
2935	Hydrant - Generic/Unknown	Fire Hydrant	2417	St. John Street	RUSSEL HILL ROAD	PETER STREET	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate
2936	Hydrant - Generic/Unknown	Fire Hydrant	2417	St. John Street	RUSSEL HILL ROAD	PETER STREET	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate
2937	Hydrant - Generic/Unknown	Fire Hydrant	2417	St. John Street	RUSSEL HILL ROAD	PETER STREET	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate
2938	Hydrant - Generic/Unknown	Fire Hydrant	2417	St. John Street	RUSSEL HILL ROAD	PETER STREET	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate
2939	Hydrant - Generic/Unknown	Fire Hydrant	2420	Peter Street	RUSSEL HILL ROAD	PETER STREET / PETER COURT	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate
2940	Hydrant - Generic/Unknown	Fire Hydrant	2420	Peter Street	RUSSEL HILL ROAD	PETER STREET / PETER COURT	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate
2941	Hydrant - Generic/Unknown	Fire Hydrant	3044	Peter Court	PETER STREET	END OF PETER COURT	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate
2942	Hydrant - Generic/Unknown	Fire Hydrant	2417	St. John Street	RUSSEL HILL ROAD	PETER STREET	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate
2943	Hydrant - Generic/Unknown	Fire Hydrant	2418	Russel Hill Road	PETER STREET / PETER COURT	PETER STREET	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate
2944	Hydrant - Generic/Unknown	Fire Hydrant	2418	Russel Hill Road	PETER STREET / PETER COURT	PETER STREET	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate
2945	Hydrant - Generic/Unknown	Fire Hydrant	2418	Russel Hill Road	PETER STREET / PETER COURT	PETER STREET	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate
2946	Hydrant - Generic/Unknown	Fire Hydrant	2418	Russel Hill Road	PETER STREET / PETER COURT	PETER STREET	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate
2947	Hydrant - Generic/Unknown	Fire Hydrant	2418	Russel Hill Road	PETER STREET / PETER COURT	PETER STREET	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate
2948	Hydrant - Generic/Unknown	Fire Hydrant	2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate
2949	Hydrant - Generic/Unknown	Fire Hydrant	2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate
2950	Hydrant - Generic/Unknown	Fire Hydrant	2416	St. John Street	STATION STREET	RUSSEL HILL ROAD	1990	50	19	31	$8,431	$5,396	$3,035	$ 12,500	4	6	6	Average	Possible	Moderate

Water - Hydrants Inventory water rate funded

FIXED ASSET ID	Subtype	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimmal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life		Proposed Rehabilitation Cost (2021 $)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current + Condition better then expected for age	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
			2.0								$ -							
2933	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23
2934	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23
2935	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23
2936	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23
2937	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23
2938	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23
2939	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23
2940	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23
2941	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23
2942	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23
2943	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23
2944	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23
2945	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23
2946	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23
2947	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23
2948	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23
2949	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23
2950	Hydrant - Generic/Unknown	M	2	2035	10	2040	2040	2090	18					10	2045	2045	2095	23

Water - Lateral Inventory water rate funded

FIXED ASSET ID	Subtype	Asset Name - Equipment	Asset Type	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization System	2021 Net Book Value System	Replacement Cost	Condition Based On Age	Condition (from Staff Assessment)	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure
					100	69	31	$ 21,211	$ 6,788	$ 14,423	$ 36,000			7				
2869	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$1,146	$367	$779	$2,000	7		7	Good	Unlikely	Minor	L
2870	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$1,192	$382	$810	$2,000	7		7	Good	Unlikely	Minor	L
2871	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$1,187	$380	$807	$2,000	7		7	Good	Unlikely	Minor	L
2872	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$1,214	$388	$826	$2,000	7		7	Good	Unlikely	Minor	L
2873	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$1,078	$345	$733	$2,000	7		7	Good	Unlikely	Minor	L
2874	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$1,276	$408	$868	$2,000	7		7	Good	Unlikely	Minor	L
2875	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$1,115	$357	$758	$2,000	7		7	Good	Unlikely	Minor	L
2876	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$1,585	$507	$1,078	$2,000	7		7	Good	Unlikely	Minor	L
2877	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$1,072	$343	$729	$2,000	7		7	Good	Unlikely	Minor	L
2878	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$1,046	$335	$711	$2,000	7		7	Good	Unlikely	Minor	L
2879	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$1,133	$363	$770	$2,000	7		7	Good	Unlikely	Minor	L
2880	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$1,294	$414	$880	$2,000	7		7	Good	Unlikely	Minor	L
2881	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$1,153	$369	$784	$2,000	7		7	Good	Unlikely	Minor	L
2882	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$1,281	$410	$871	$2,000	7		7	Good	Unlikely	Minor	L
2883	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$1,188	$380	$808	$2,000	7		7	Good	Unlikely	Minor	L
2884	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$1,050	$336	$714	$2,000	7		7	Good	Unlikely	Minor	L
2885	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$991	$317	$674	$2,000	7		7	Good	Unlikely	Minor	L
2886	Water - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	69	31	$1,211	$387	$824	$2,000	7		7	Good	Unlikely	Minor	L

Water - Lateral Inventory water rate funded

FIXED ASSET ID	Subtype	Numerical Value of Risk of Failure	Year Replacement due to minimmal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life		Proposed Rehabilitation Cost (2021 $)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
		1.0								$ -							
2869	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68
2870	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68
2871	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68
2872	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68
2873	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68
2874	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68
2875	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68
2876	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68
2877	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68
2878	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68
2879	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68
2880	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68
2881	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68
2882	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68
2883	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68
2884	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68
2885	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68
2886	Water - Lateral Line	1	2080	10	2090	2090	2190	68					0	2090	2090	2190	68

Water - System Valve Inventory water rate funded

FIXED ASSET ID	Subtype	Asset Name	Road GIS ID	Road Name	Road From	Road To	Size	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization System	2021 Net Book Value System	Replacement Cost	Condition Based On Age	Condition (from Staff Assessment)	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure
															$690,000						
									75	45	30	$ 304,310	$ 187,353	$ 116,957	$ 690,000			6			
2887	Shut Off	Water System Valve	2417	St. John Street	RUSSEL HILL ROAD	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2888	Shut Off	Water System Valve	2417	St. John Street	RUSSEL HILL ROAD	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2889	Shut Off	Water System Valve	2417	St. John Street	RUSSEL HILL ROAD	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2890	Shut Off	Water System Valve	2417	St. John Street	RUSSEL HILL ROAD	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2891	Shut Off	Water System Valve	2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2892	Shut Off	Water System Valve	2417	St. John Street	RUSSEL HILL ROAD	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2893	Shut Off	Water System Valve	2417	St. John Street	RUSSEL HILL ROAD	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2894	Shut Off	Water System Valve	2417	St. John Street	RUSSEL HILL ROAD	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2895	Shut Off	Water System Valve	2417	St. John Street	RUSSEL HILL ROAD	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2896	Shut Off	Water System Valve	2417	St. John Street	RUSSEL HILL ROAD	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2897	Shut Off	Water System Valve	2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2898	Shut Off	Water System Valve	2416	St. John Street	STATION STREET	RUSSEL HILL ROAD	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2899	Shut Off	Water System Valve	2414	Henry Street	MILL STREET	MAIN STREET	200	2006	75	60	15	$9,164	$2,932	$6,231	$15,000	8		8	Good	Unlikely	Minor
2900	Shut Off	Water System Valve	2397	Station Street	10TH LINE	ST. JOHN STREET	200	2006	75	60	15	$9,164	$2,932	$6,231	$15,000	8		8	Good	Unlikely	Minor
2901	Shut Off	Water System Valve	2397	Station Street	10TH LINE	ST. JOHN STREET	200	2006	75	60	15	$9,164	$2,932	$6,231	$15,000	8		8	Good	Unlikely	Minor
2902	Shut Off	Water System Valve	2397	Station Street	10TH LINE	ST. JOHN STREET	200	2006	75	60	15	$9,164	$2,932	$6,231	$15,000	8		8	Good	Unlikely	Minor
2903	Shut Off	Water System Valve	2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2904	Shut Off	Water System Valve	2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2905	Shut Off	Water System Valve	2420	Peter Street	RUSSEL HILL ROAD	PETER STREET / PETER COUI	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2906	Shut Off	Water System Valve	2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2907	Shut Off	Water System Valve	2418	Russel Hill Road	PETER STREET / PETER COUI	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2908	Shut Off	Water System Valve	2418	Russel Hill Road	PETER STREET / PETER COUI	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2909	Shut Off	Water System Valve	2418	Russel Hill Road	PETER STREET / PETER COUI	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2910	Shut Off	Water System Valve	2418	Russel Hill Road	PETER STREET / PETER COUI	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2911	Shut Off	Water System Valve	2418	Russel Hill Road	PETER STREET / PETER COUI	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2912	Shut Off	Water System Valve	2418	Russel Hill Road	PETER STREET / PETER COUI	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2913	Shut Off	Water System Valve	2420	Peter Street	RUSSEL HILL ROAD	PETER STREET / PETER COUI	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2914	Shut Off	Water System Valve	2418	Russel Hill Road	PETER STREET / PETER COUI	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2915	Shut Off	Water System Valve	3044	Peter Court	PETER STREET	END OF PETER COURT	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2916	Shut Off	Water System Valve	3044	Peter Court	PETER STREET	END OF PETER COURT	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2917	Shut Off	Water System Valve	2417	St. John Street	RUSSEL HILL ROAD	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2918	Shut Off	Water System Valve	2417	St. John Street	RUSSEL HILL ROAD	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2919	Shut Off	Water System Valve	2451	Main Street	DAVID STREET	HENRY STREET	150	1986	75	40	35	$5,406	$3,893	$1,514	$15,000	5		5	Average	Possible	Minor
2920	Shut Off	Water System Valve	2451	Main Street	DAVID STREET	HENRY STREET	150	1986	75	40	35	$5,406	$3,893	$1,514	$15,000	5		5	Average	Possible	Minor
2921	Shut Off	Water System Valve	2451	Main Street	DAVID STREET	HENRY STREET	150	1986	75	40	35	$5,406	$3,893	$1,514	$15,000	5		5	Average	Possible	Minor
2922	Shut Off	Water System Valve	2447	James Street	EVANS AVENUE	END OF JAMES STREET	150	1986	75	40	35	$5,406	$3,893	$1,514	$15,000	5		5	Average	Possible	Minor
2923	Shut Off	Water System Valve	2447	James Street	EVANS AVENUE	END OF JAMES STREET	200	1986	75	40	35	$5,406	$3,893	$1,514	$15,000	5		5	Average	Possible	Minor
2924	Shut Off	Water System Valve	2447	James Street	EVANS AVENUE	END OF JAMES STREET	150	1986	75	40	35	$5,406	$3,893	$1,514	$15,000	5		5	Average	Possible	Minor
2925	Shut Off	Water System Valve	2447	James Street	EVANS AVENUE	END OF JAMES STREET	150	1986	75	40	35	$5,406	$3,893	$1,514	$15,000	5		5	Average	Possible	Minor
2926	Shut Off	Water System Valve	2427	Evans Avenue	JAMES STREET	HENRY STREET	150	1986	75	40	35	$5,406	$3,893	$1,514	$15,000	5		5	Average	Possible	Minor
2927	Shut Off	Water System Valve	2426	Evans Avenue	JAMES STREET	END	150	1986	75	40	35	$5,406	$3,893	$1,514	$15,000	5		5	Average	Possible	Minor
2928	Shut Off	Water System Valve	2412	Henry Street	EVANS STREET	END	150	1986	75	40	35	$5,406	$3,893	$1,514	$15,000	5		5	Average	Possible	Minor
2929	Shut Off	Water System Valve	2418	Russel Hill Road	PETER STREET / PETER COUI	PETER STREET	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2930	Shut Off	Water System Valve	2420	Peter Street	RUSSEL HILL ROAD	PETER STREET / PETER COUI	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2931	Shut Off	Water System Valve	2420	Peter Street	RUSSEL HILL ROAD	PETER STREET / PETER COUI	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor
2932	Shut Off	Water System Valve	2420	Peter Street	RUSSEL HILL ROAD	PETER STREET / PETER COUI	150	1990	75	44	31	$6,675	$4,272	$2,403	$15,000	6		6	Average	Possible	Minor

Water - System Valve Inventory water rate funded

FIXED ASSET ID	Subtype	Asset Name	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimmal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life		Proposed Rehabilitation Cost (2021 $)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
				1.9								$ -							
2887	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2888	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2889	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2890	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2891	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2892	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2893	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2894	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2895	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2896	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2897	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2898	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2899	Shut Off	Water System Valve	L	1	2074	10	2082	2082	2158	61						2082	2082	2157	61
2900	Shut Off	Water System Valve	L	1	2074	10	2082	2082	2158	61						2082	2082	2157	61
2901	Shut Off	Water System Valve	L	1	2074	10	2082	2082	2158	61						2082	2082	2157	61
2902	Shut Off	Water System Valve	L	1	2074	10	2082	2082	2158	61						2082	2082	2157	61
2903	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2904	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2905	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2906	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2907	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2908	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2909	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2910	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2911	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2912	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2913	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2914	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2915	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2916	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2917	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2918	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2919	Shut Off	Water System Valve	M	2	2054	10	2062	2062	2138	41						2062	2062	2137	41
2920	Shut Off	Water System Valve	M	2	2054	10	2062	2062	2138	41						2062	2062	2137	41
2921	Shut Off	Water System Valve	M	2	2054	10	2062	2062	2138	41						2062	2062	2137	41
2922	Shut Off	Water System Valve	M	2	2054	10	2062	2062	2138	41						2062	2062	2137	41
2923	Shut Off	Water System Valve	M	2	2054	10	2062	2062	2138	41						2062	2062	2137	41
2924	Shut Off	Water System Valve	M	2	2054	10	2062	2062	2138	41						2062	2062	2137	41
2925	Shut Off	Water System Valve	M	2	2054	10	2062	2062	2138	41						2062	2062	2137	41
2926	Shut Off	Water System Valve	M	2	2054	10	2062	2062	2138	41						2062	2062	2137	41
2927	Shut Off	Water System Valve	M	2	2054	10	2062	2062	2138	41						2062	2062	2137	41
2928	Shut Off	Water System Valve	M	2	2054	10	2062	2062	2138	41						2062	2062	2137	41
2929	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2930	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2931	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45
2932	Shut Off	Water System Valve	M	2	2058	10	2066	2066	2142	45						2066	2066	2141	45

Amaranth
Water - Well Inventory - water rate funded

FIXED ASSET ID	Subtype	Asset Name	Asset Type	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization System	2021 Net Book Value System	Replacement Cost	Condition Based On Age	Condition (from Staff Assessment)	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure
					46	18	28	$ 114,378	$ 106,610	$ 7,768	$ 230,000			5.7					1.8
2814	Municipal Production Well	Municipal Production Well - St John Street	Municipal Production Well	2002	50	31	19	$38,840	$31,072	$7,768	$60,000	6	6	6	Average	Possible	Moderate	M	2
2815	Municipal Production Well	Municipal Production Well - St John Street	Municipal Production Well	1990	50	19	31	$28,104	$28,104	$0	$60,000	4	5	5	Average	Possible	Moderate	M	2
2816	Municipal Production Well	Municipal Production Well - Russel Hill Road	Municipal Production Well	1990	50	19	31	$28,104	$28,104	$0	$60,000	4	5	5	Average	Possible	Moderate	M	2
3140	Domestic Well	Municipal Office Well	Domestic Well	1991	30	0	30	$9,665	$9,665	$0	$25,000	0	7	7	Good	Unlikely	Minor	L	1
	Domestic Well	Public Works Garage Well	Domestic Well	1964	30	0	30	$9,665	$9,665	$0	$25,000	0	7	7	Good	Unlikely	Minor	L	1

Amaranth
Water - Well Inventory - water rate funded

FIXED ASSET ID	Subtype	Year Replacement due to minimal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life		Rehabilitation Year	Rehabilitation Cost	Proposed Rehabilitation Cost (2021 $)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
											$ -							
2814	Municipal Production Well	2047	10	2052	2052	2102	31								2052	2052	2102	31
2815	Municipal Production Well	2035	10	2040	2040	2090	19								2040	2040	2090	19
2816	Municipal Production Well	2035	10	2040	2040	2090	19								2040	2040	2090	19
3140	Domestic Well	2018	10	2021	2021	2051	0								2021	2035	2065	14
	Domestic Well	1991	10	1994	2021	2078	0								1994	2036	2066	15

Wastewater Systems (Tax Funded)

FIXED ASSET ID	Asset Type	Asset Name	Tank Size / Length	Install Year	Useful Life	Remaining Useful Life 2021	Age	Historic Cost	2021 Accumulated Amortization	2021 Net Book Value	Replacement Cost	Condition Based On Useful Life	Staff Assessed Condition	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimal maintenance practices	Current Levels of Service % benefit
					50	**13**	**39**	**$ 31,111**	**$ 19,587**	**$ 11,524**	**$ 115,000**			**7.0**					**2.0**		
	Septic System	Municipal Office Septic System		1991	50	20	30	$28,810	$17,286	$11,524	$75,000	4	7	7	Good	Unlikely	Moderate	M	2	2036	10
	Septic System	Public Works Garage Septic System		1965	50	0	56	$2,301	$2,301	$0	$40,000	0	7	7	Good	Unlikely	Moderate	M	2	2010	10

Wastewater Systems (Tax Funded)

FIXED ASSET ID	Asset Type	Asset Name	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score		Proposed Rehabilitation Cost (2021 $)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current + Condition better then expected for age	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
						$ -							
	Septic System	Municipal Office Septic System	2041	2041					20	2051	2051	2101	29
	Septic System	Public Works Garage Septic System	2015	2021					60	2045	2045	2095	23

Storm - Gravity Main Inventory - tax funded

Fixed Asset #	Subtype	Street ID	Street Name	From	To	Asset Name	Diameter (mm)	Length (m)	Material	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization System	2021 Net Book Value System	Replacement Cost (2021)	Condition Based On Useful Life	Condition from Municipality	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure
								3,132			73	42	31	1,286,684	574,153	712,531	2,994,543			6				
2779	Collector	157	St. John Street			Collector Gravity Main	300	75	PVC	1990	100	69	31	$34,158	$10,931	$23,227	$71,395	7		7	Good	Unlikely	Minor	L
2780	Collector	51	Russel Hill Road			Collector Gravity Main	600	100	CP	1990	75	44	31	$47,141	$20,114	$27,028	$98,531	6		6	Average	Possible	Minor	M
2781	Collector	51	Russel Hill Road			Collector Gravity Main	600	71	CP	1990	75	44	31	$33,342	$14,226	$19,116	$69,689	6		6	Average	Possible	Minor	M
2782	Collector	51	Russel Hill Road			Collector Gravity Main	600	35	CP	1990	75	44	31	$16,458	$7,022	$9,436	$34,399	6		6	Average	Possible	Minor	M
2783	Collector	51	Russel Hill Road			Collector Gravity Main	600	13	CP	1990	75	44	31	$6,322	$2,698	$3,625	$13,215	6		6	Average	Possible	Minor	M
2784	Collector	158	St. John Street			Collector Gravity Main	675	50	CP	1990	75	44	31	$23,682	$10,104	$13,578	$49,499	6		6	Average	Possible	Minor	M
2785	Collector	158	St. John Street			Collector Gravity Main	750	28	CP	1990	75	44	31	$13,152	$5,612	$7,541	$27,491	6		6	Average	Possible	Minor	M
2786	Collector	158	St. John Street			Collector Gravity Main	300	104	CP	1990	75	44	31	$48,941	$20,881	$28,059	$102,293	6		6	Average	Possible	Minor	M
2787	Collector	158	St, John Street			Collector Gravity Main	525	121	CP	1990	75	44	31	$56,891	$24,273	$32,617	$118,910	6		6	Average	Possible	Minor	M
2788	Collector	158	St. John Street			Collector Gravity Main	600	57	CP	1990	75	44	31	$26,723	$11,402	$15,321	$55,855	6		6	Average	Possible	Minor	M
2789	Collector	159	Russel Hill Road			Collector Gravity Main	300	61	CP	1990	75	44	31	$28,817	$12,295	$16,522	$60,232	6		6	Average	Possible	Minor	M
2790	Collector	159	Russel Hill Road			Collector Gravity Main	300	59	CP	1990	75	44	31	$27,892	$11,900	$15,991	$58,298	6		6	Average	Possible	Minor	M
2791	Collector	159	Russel Hill Road			Collector Gravity Main	300	49	CP	1990	75	44	31	$23,084	$9,849	$13,235	$48,250	6		6	Average	Possible	Minor	M
2792	Collector	159	Russel Hill Road			Collector Gravity Main	375	63	CP	1990	75	44	31	$29,682	$12,664	$17,018	$62,039	6		6	Average	Possible	Minor	M
2793	Collector	51	Russel Hill Road			Collector Gravity Main	600	70	CP	1990	75	44	31	$32,773	$13,983	$18,790	$68,500	6		6	Average	Possible	Minor	M
2794	Collector	52	Peter Street			Collector Gravity Main	450	75	CP	1990	75	44	31	$35,379	$15,095	$20,284	$73,948	6		6	Average	Possible	Minor	M
2795	Collector	52	Peter Street			Collector Gravity Main	450	55	CP	1990	75	44	31	$25,762	$10,992	$14,770	$53,847	6		6	Average	Possible	Minor	M
2796	Collector	52	Peter Street			Collector Gravity Main	450	91	CP	1990	75	44	31	$42,776	$18,251	$24,525	$89,408	6		6	Average	Possible	Minor	M
2797	Collector	52	Peter Street			Collector Gravity Main	450	46	CP	1990	75	44	31	$21,685	$9,252	$12,433	$45,324	6		6	Average	Possible	Minor	M
2798	Collector	52	Peter Street			Collector Gravity Main	450	71	CP	1990	75	44	31	$33,554	$14,317	$19,238	$70,133	6		6	Average	Possible	Minor	M
2799	Collector	159	Russel Hill Road			Collector Gravity Main	375	54	CP	1990	75	44	31	$25,328	$10,806	$14,521	$52,938	6		6	Average	Possible	Minor	M
2800	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	250	7	CP	1990	75	44	31	$3,462	$1,477	$1,985	$7,237	6		6	Average	Possible	Minor	M
2801	Catch Basin Lead	48	Peter Court			Catch basin Lead Gravity Main	250	8	CP	1990	75	44	31	$3,841	$1,639	$2,202	$8,028	6		6	Average	Possible	Minor	M
2802	Catch Basin Lead	48	Peter Court			Catch basin Lead Gravity Main	250	13	CP	1990	75	44	31	$6,111	$2,607	$3,504	$12,773	6		6	Average	Possible	Minor	M
2803	Catch Basin Lead	158	St. John Street			Catch basin Lead Gravity Main	250	8	CP	1990	75	44	31	$3,654	$1,559	$2,095	$7,637	6		6	Average	Possible	Minor	M
2804	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	250	13	CP	1990	75	44	31	$6,110	$2,607	$3,503	$12,770	6		6	Average	Possible	Minor	M
2805	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	250	6	CP	1990	75	44	31	$2,619	$1,117	$1,501	$5,473	6		6	Average	Possible	Minor	M
2806	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	250	5	CP	1990	75	44	31	$2,278	$972	$1,306	$4,761	6		6	Average	Possible	Minor	M
2807	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	250	4	CP	1990	75	44	31	$1,928	$823	$1,105	$4,030	6		6	Average	Possible	Minor	M
2808	Catch Basin Lead	52	Peter Street			Catch basin Lead Gravity Main	250	10	PVC	1990	100	69	31	$4,673	$1,495	$3,178	$9,768	7		7	Good	Unlikely	Minor	L
2809	Catch Basin Lead	157	St. John Street			Catch basin Lead Gravity Main	300	15	PVC	1990	100	69	31	$6,911	$2,212	$4,699	$14,445	7		7	Good	Unlikely	Minor	L
2810	Catch Basin Lead	158	St. John Street			Catch basin Lead Gravity Main	300	12	CP	1990	75	44	31	$5,695	$2,430	$3,265	$11,903	6		6	Average	Possible	Minor	M
2811	Catch Basin Lead	158	St. John Street			Catch basin Lead Gravity Main	250	8	CP	1990	75	44	31	$3,818	$1,629	$2,189	$7,980	6		6	Average	Possible	Minor	M
2812	Outfall	15	Station Street			Outfall Gravity Main	600	16	CSP	1990	50	19	31	$6,320	$4,045	$2,275	$13,209	4	5	5	Average	Possible	Minor	M
2813	Catch Basin Lead	15	Station Street			Catch basin Lead Gravity Main	250	2	PVC	1990	100	69	31	$878	$281	$597	$1,835	7		7	Good	Unlikely	Minor	L
2989	Catch Basin Lead	52	Peter Street			Catch basin Lead Gravity Main	250	5	CP	1990	75	44	31	$2,292	$978	$1,314	$4,791	6		6	Average	Possible	Minor	M
2990	Catch Basin Lead	52	Peter Street			Catch basin Lead Gravity Main	250	4	CP	1990	75	44	31	$2,005	$856	$1,150	$4,191	6		6	Average	Possible	Minor	M
2991	Catch Basin Lead	52	Peter Street			Catch basin Lead Gravity Main	250	4	CP	1990	75	44	31	$1,706	$728	$978	$3,565	6		6	Average	Possible	Minor	M
2992	Catch Basin Lead	52	Peter Street			Catch basin Lead Gravity Main	250	7	CP	1990	75	44	31	$3,238	$1,382	$1,857	$6,768	6		6	Average	Possible	Minor	M
2993	Catch Basin Lead	52	Peter Street			Catch basin Lead Gravity Main	250	1	CP	1990	75	44	31	$442	$189	$253	$924	6		6	Average	Possible	Minor	M
2994	Culvert	16	Station Street			Culvert Gravity Main	500	17	CSP	1990	50	19	31	$6,619	$4,236	$2,383	$13,834	4	5	5	Average	Possible	Minor	M
2995	Catch Basin Lead	51	Russel Hill Road			Catch basin Lead Gravity Main	250	3	CP	1990	75	44	31	$1,188	$507	$681	$2,483	6		6	Average	Possible	Minor	M
2996	Catch Basin Lead	51	Russel Hill Road			Catch basin Lead Gravity Main	250	6	CP	1990	75	44	31	$2,653	$1,132	$1,521	$5,545	6		6	Average	Possible	Minor	M
2997	Catch Basin Lead	51	Russel Hill Road			Catch basin Lead Gravity Main	250	3	CP	1990	75	44	31	$1,489	$635	$853	$3,111	6		6	Average	Possible	Minor	M
2998	Catch Basin Lead	51	Russel Hill Road			Catch basin Lead Gravity Main	250	3	CP	1990	75	44	31	$1,329	$567	$762	$2,777	6		6	Average	Possible	Minor	M
2999	Catch Basin Lead	51	Russel Hill Road			Catch basin Lead Gravity Main	250	2	CP	1990	75	44	31	$747	$318	$428	$1,560	6		6	Average	Possible	Minor	M
3000	Catch Basin Lead	51	Russel Hill Road			Catch basin Lead Gravity Main	250	4	CP	1990	75	44	31	$1,837	$784	$1,053	$3,840	6		6	Average	Possible	Minor	M
3001	Catch Basin Lead	154	Henry Street			Catch basin Lead Gravity Main	300	3	CSP	1986	50	15	35	$935	$673	$262	$2,413	3	5	5	Average	Possible	Minor	M
3002	Catch Basin Lead	154	Henry Street			Catch basin Lead Gravity Main	300	1	CSP	1986	50	15	35	$406	$292	$114	$1,047	3	5	5	Average	Possible	Minor	M
3003	Outfall	50	Main Street			Outfall Gravity Main	1200	210	CSP	1986	50	15	35	$65,752	$47,342	$18,411	$169,670	3	5	5	Average	Possible	Minor	M
3004	Collector	106	James Street			Collector Gravity Main	800	105	CSP	1986	50	15	35	$32,866	$23,663	$9,202	$84,808	3	5	5	Average	Possible	Minor	M
3005	Collector	106	James Street			Collector Gravity Main	600	15	CSP	1986	50	15	35	$4,634	$3,336	$1,298	$11,958	3	5	5	Average	Possible	Minor	M
3006	Collector	106	James Street			Collector Gravity Main	800	34	CSP	1986	50	15	35	$10,762	$7,749	$3,013	$27,770	3	5	5	Average	Possible	Minor	M
3007	Collector	106	James Street			Collector Gravity Main	600	78	CSP	1986	50	15	35	$24,537	$17,666	$6,870	$63,316	3	5	5	Average	Possible	Minor	M
3008	Catch Basin Lead	158	St. John Street			Catch basin Lead Gravity Main	250	4	CP	1990	75	44	31	$1,780	$760	$1,021	$3,721	6		6	Average	Possible	Minor	M
3009	Catch Basin Lead	158	St. John Street			Catch basin Lead Gravity Main	250	4	CP	1990	75	44	31	$1,920	$819	$1,101	$4,013	6		6	Average	Possible	Minor	M
3010	Catch Basin Lead	158	St. John Street			Catch basin Lead Gravity Main	250	6	CP	1990	75	44	31	$3,051	$1,302	$1,749	$6,377	6		6	Average	Possible	Minor	M
3011	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	250	2	CP	1990	75	44	31	$961	$410	$551	$2,009	6		6	Average	Possible	Minor	M
3012	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	250	5	CP	1990	75	44	31	$2,529	$1,079	$1,450	$5,286	6		6	Average	Possible	Minor	M
3013	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	250	2	CP	1990	75	44	31	$1,101	$470	$631	$2,301	6		6	Average	Possible	Minor	M
3014	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	250	6	CP	1990	75	44	31	$2,629	$1,122	$1,507	$5,495	6		6	Average	Possible	Minor	M
3015	Catch Basin Lead	52	Peter Street			Catch basin Lead Gravity Main	250	3	CP	1990	75	44	31	$1,342	$572	$769	$2,804	6		6	Average	Possible	Minor	M
3142	Collector	158	St. John Street			Collector Gravity Main	675	63	CP	1990	75	44	31	$29,514	$12,593	$16,921	$61,688	6		6	Average	Possible	Minor	M
4348	Collector	2447	JAMES STREET			Collector Gravity Main	300	7	CP	1986	75	45	30	$2,242	$927	$1,315	$7,048	6		6	Average	Possible	Minor	M
4349	Collector	2427	EVANS AVENUE			Collector Gravity Main	300	58	CP	1986	75	45	30	$18,214	$7,529	$10,686	$57,262	6		6	Average	Possible	Minor	M
4350	Collector	2427	EVANS AVENUE			Catch Basin Lead Gravity Main	300	15	CP	1986	75	45	30	$4,797	$1,983	$2,814	$15,081	6		6	Average	Possible	Minor	M
4351	Collector	2427	EVANS AVENUE			Catch Basin Lead Gravity Main	300	8	CP	1986	75	45	30	$2,406	$995	$1,412	$7,564	6		6	Average	Possible	Minor	M
4352	Collector	2413	HENRY STREET			Collector Gravity Main	300	90	CP	1986	75	45	30	$28,138	$11,630	$16,508	$88,459	6		6	Average	Possible	Minor	M
4353	Collector	2413	HENRY STREET			Catch Basin Lead Gravity Main	300	7	CP	1986	75	45	30	$2,063	$853	$1,211	$6,487	6		6	Average	Possible	Minor	M
4354	Collector	2413	HENRY STREET			Collector Gravity Main	300	63	CP	1986	75	45	30	$19,736	$8,158	$11,579	$62,046	6		6	Average	Possible	Minor	M
4355	Collector	2399	MILL STREET			Catch Basin Lead Gravity Main	300	9	CP	1986	75	45	30	$2,700	$1,116	$1,584	$8,488	6		6	Average	Possible	Minor	M
4356	Collector	2397	STATION STREET			Outfall Gravity Main	300	32	CP	1986	75	45	30	$9,938	$4,108	$5,830	$31,243	6		6	Average	Possible	Minor	M
4357	Collector	2447	JAMES STREET			Catch Basin Lead Gravity Main	300	6	CP	1986	75	45	30	$2,024	$837	$1,187	$6,363	6		6	Average	Possible	Minor	M

Fixed Asset #	Subtype	Street ID	Street Name	From	To	Asset Name	Diameter (mm)	Length (m)	Material	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization System	2021 Net Book Value System	Replacement Cost (2021)	Condition Based On Useful Life	Condition from Municipality	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure
4358	Collector	2447	JAMES STREET			Catch Basin Lead Gravity Main	300	7	CP	1986	75	45	30	$2,143	$886	$1,257	$6,737	6		6	Average	Possible	Minor	M
4359	Collector	2447	JAMES STREET			Collector Gravity Main	300	50	CP	1986	75	45	30	$15,782	$6,523	$9,259	$49,616	6		6	Average	Possible	Minor	M
4360	Collector	2447	JAMES STREET			Collector Gravity Main	300	54	CP	1986	75	45	30	$17,031	$7,040	$9,992	$53,542	6		6	Average	Possible	Minor	M
4361	Collector	2425	MILL STREET			Collector Gravity Main	300	80	CP	1986	75	45	30	$24,996	$10,332	$14,664	$78,582	6		6	Average	Possible	Minor	M
4362	Collector	2425	MILL STREET			Collector Gravity Main	300	45	CP	1986	75	45	30	$14,128	$5,840	$8,289	$44,416	6		6	Average	Possible	Minor	M
4363	Collector	2425	MILL STREET			Catch Basin Lead Gravity Main	300	9	CP	1986	75	45	30	$2,809	$1,161	$1,648	$8,830	6		6	Average	Possible	Minor	M
4364	Collector	2425	MILL STREET			Outfall Gravity Main	300	60	CP	1986	75	45	30	$18,848	$7,790	$11,057	$59,252	6		6	Average	Possible	Minor	M
4365	Collector	2425	MILL STREET			Collector Gravity Main	300	15	CP	1986	75	45	30	$4,649	$1,922	$2,728	$14,616	6		6	Average	Possible	Minor	M
4366	Collector	2425	MILL STREET			Collector Gravity Main	300	53	CP	1986	75	45	30	$16,531	$6,833	$9,698	$51,968	6		6	Average	Possible	Minor	M
4367	Collector	2425	MILL STREET			Collector Gravity Main	300	50	CP	1986	75	45	30	$15,530	$6,419	$9,111	$48,822	6		6	Average	Possible	Minor	M
4368	Collector	2398	STATION STREET			Collector Gravity Main	300	39	CP	1990	75	49	26	$18,604	$6,698	$11,907	$38,868	7		7	Good	Unlikely	Minor	L
4369	Collector	2398	STATION STREET			Collector Gravity Main	300	73	CP	1990	75	49	26	$34,274	$12,339	$21,935	$71,604	7		7	Good	Unlikely	Minor	L
4370	Collector	2398	STATION STREET			Collector Gravity Main	300	71	CP	1990	75	49	26	$33,332	$12,000	$21,333	$69,637	7		7	Good	Unlikely	Minor	L
4371	Collector	2421	PETER STREET			Catch Basin Lead Gravity Main	300	4	CP	1990	75	49	26	$1,912	$688	$1,224	$3,996	7		7	Good	Unlikely	Minor	L
4372	Collector	2415	STATION STREET			Catch Basin Lead Gravity Main	300	15	CP	1990	75	49	26	$7,170	$2,581	$4,589	$14,978	7		7	Good	Unlikely	Minor	L
4373	Collector	2398	STATION STREET			Catch Basin Lead Gravity Main	300	9	CP	1990	75	49	26	$4,201	$1,512	$2,688	$8,776	7		7	Good	Unlikely	Minor	L
4374	Collector	2415	STATION STREET			Outfall Gravity Main	300	120	CP	1990	75	49	26	$56,462	$20,326	$36,136	$117,960	7		7	Good	Unlikely	Minor	L
4375	Collector	2418	RUSSEL HILL ROAD			Catch Basin Lead Gravity Main	300	2	CP	1990	75	49	26	$1,130	$407	$723	$2,361	7		7	Good	Unlikely	Minor	L
4376	Collector	2418	RUSSEL HILL ROAD			Catch Basin Lead Gravity Main	300	6	CP	1990	75	49	26	$2,791	$1,005	$1,787	$5,832	7		7	Good	Unlikely	Minor	L

Storm - Gravity Main Inventory - tax funded

Fixed Asset #	Subtype	Street ID	Street Name	From	To	Asset Name	Numerical Value of Risk of Failure	Year Replacement due to minimal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Proposed Rehabilitation Cost (2021 $)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current + Condition better then expected for age	Revised Levels Service Plus Risk Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
							1.9												
2779	Collector	157	St. John Street			Collector Gravity Main	1	2080	10	2090	2090				0	2090	2090	2190	69
2780	Collector	51	Russel Hill Road			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2781	Collector	51	Russel Hill Road			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2782	Collector	51	Russel Hill Road			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2783	Collector	51	Russel Hill Road			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2784	Collector	158	St. John Street			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2785	Collector	158	St. John Street			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2786	Collector	158	St. John Street			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2787	Collector	158	St, John Street			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2788	Collector	158	St. John Street			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2789	Collector	159	Russel Hill Road			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2790	Collector	159	Russel Hill Road			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2791	Collector	159	Russel Hill Road			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2792	Collector	159	Russel Hill Road			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2793	Collector	51	Russel Hill Road			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2794	Collector	52	Peter Street			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2795	Collector	52	Peter Street			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2796	Collector	52	Peter Street			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2797	Collector	52	Peter Street			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2798	Collector	52	Peter Street			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2799	Collector	159	Russel Hill Road			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2800	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2801	Catch Basin Lead	48	Peter Court			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2802	Catch Basin Lead	48	Peter Court			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2803	Catch Basin Lead	158	St. John Street			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2804	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2805	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2806	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2807	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2808	Catch Basin Lead	52	Peter Street			Catch basin Lead Gravity Main	1	2080	10	2090	2090				0	2090	2090	2190	69
2809	Catch Basin Lead	157	St. John Street			Catch basin Lead Gravity Main	1	2080	10	2090	2090				0	2090	2090	2190	69
2810	Catch Basin Lead	158	St. John Street			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2811	Catch Basin Lead	158	St. John Street			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2812	Outfall	15	Station Street			Outfall Gravity Main	2	2035	10	2040	2040				0	2040	2040	2090	19
2813	Catch Basin Lead	15	Station Street			Catch basin Lead Gravity Main	1	2080	10	2090	2090				0	2090	2090	2190	69
2989	Catch Basin Lead	52	Peter Street			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2990	Catch Basin Lead	52	Peter Street			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2991	Catch Basin Lead	52	Peter Street			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2992	Catch Basin Lead	52	Peter Street			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2993	Catch Basin Lead	52	Peter Street			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2994	Culvert	16	Station Street			Culvert Gravity Main	2	2035	10	2040	2040				0	2040	2040	2090	19
2995	Catch Basin Lead	51	Russel Hill Road			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2996	Catch Basin Lead	51	Russel Hill Road			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2997	Catch Basin Lead	51	Russel Hill Road			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2998	Catch Basin Lead	51	Russel Hill Road			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
2999	Catch Basin Lead	51	Russel Hill Road			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
3000	Catch Basin Lead	51	Russel Hill Road			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
3001	Catch Basin Lead	154	Henry Street			Catch basin Lead Gravity Main	2	2031	10	2036	2036				0	2036	2036	2086	15
3002	Catch Basin Lead	154	Henry Street			Catch basin Lead Gravity Main	2	2031	10	2036	2036				0	2036	2036	2086	15
3003	Outfall	50	Main Street			Outfall Gravity Main	2	2031	10	2036	2036				0	2036	2036	2086	15
3004	Collector	106	James Street			Collector Gravity Main	2	2031	10	2036	2036				0	2036	2036	2086	15
3005	Collector	106	James Street			Collector Gravity Main	2	2031	10	2036	2036				0	2036	2036	2086	15
3006	Collector	106	James Street			Collector Gravity Main	2	2031	10	2036	2036				0	2036	2036	2086	15
3007	Collector	106	James Street			Collector Gravity Main	2	2031	10	2036	2036				0	2036	2036	2086	15
3008	Catch Basin Lead	158	St. John Street			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
3009	Catch Basin Lead	158	St. John Street			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
3010	Catch Basin Lead	158	St. John Street			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
3011	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
3012	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
3013	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
3014	Catch Basin Lead	159	Russel Hill Road			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
3015	Catch Basin Lead	52	Peter Street			Catch basin Lead Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
3142	Collector	158	St. John Street			Collector Gravity Main	2	2058	10	2066	2066				0	2066	2066	2141	45
4348	Collector	2447	JAMES STREET			Collector Gravity Main	2	2054	10	2062	2062				0	2062	2062	2137	41
4349	Collector	2427	EVANS AVENUE			Collector Gravity Main	2	2054	10	2062	2062				0	2062	2062	2137	41
4350	Collector	2427	EVANS AVENUE			Catch Basin Lead Gravity Main	2	2054	10	2062	2062				0	2062	2062	2137	41
4351	Collector	2427	EVANS AVENUE			Catch Basin Lead Gravity Main	2	2054	10	2062	2062				0	2062	2062	2137	41
4352	Collector	2413	HENRY STREET			Collector Gravity Main	2	2054	10	2062	2062				0	2062	2062	2137	41
4353	Collector	2413	HENRY STREET			Catch Basin Lead Gravity Main	2	2054	10	2062	2062				0	2062	2062	2137	41
4354	Collector	2413	HENRY STREET			Collector Gravity Main	2	2054	10	2062	2062				0	2062	2062	2137	41
4355	Collector	2399	MILL STREET			Catch Basin Lead Gravity Main	2	2054	10	2062	2062				0	2062	2062	2137	41
4356	Collector	2397	STATION STREET			Outfall Gravity Main	2	2054	10	2062	2062				0	2062	2062	2137	41
4357	Collector	2447	JAMES STREET			Catch Basin Lead Gravity Main	2	2054	10	2062	2062				0	2062	2062	2137	41

Fixed Asset #	Subtype	Street ID	Street Name	From	To	Asset Name	Numerical Value of Risk of Failure	Year Replacement due to minimal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score		Proposed Rehabilitation Cost (2021 $)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current + Condition better then expected for age	Revised Levels Service Plus Risk Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
4358	Collector	2447	JAMES STREET			Catch Basin Lead Gravity Main	2	2054	10	2062	2062					0	2062	2062	2137	41
4359	Collector	2447	JAMES STREET			Collector Gravity Main	2	2054	10	2062	2062					0	2062	2062	2137	41
4360	Collector	2447	JAMES STREET			Collector Gravity Main	2	2054	10	2062	2062					0	2062	2062	2137	41
4361	Collector	2425	MILL STREET			Collector Gravity Main	2	2054	10	2062	2062					0	2062	2062	2137	41
4362	Collector	2425	MILL STREET			Collector Gravity Main	2	2054	10	2062	2062					0	2062	2062	2137	41
4363	Collector	2425	MILL STREET			Catch Basin Lead Gravity Main	2	2054	10	2062	2062					0	2062	2062	2137	41
4364	Collector	2425	MILL STREET			Outfall Gravity Main	2	2054	10	2062	2062					0	2062	2062	2137	41
4365	Collector	2425	MILL STREET			Collector Gravity Main	2	2054	10	2062	2062					0	2062	2062	2137	41
4366	Collector	2425	MILL STREET			Collector Gravity Main	2	2054	10	2062	2062					0	2062	2062	2137	41
4367	Collector	2425	MILL STREET			Collector Gravity Main	2	2054	10	2062	2062					0	2062	2062	2137	41
4368	Collector	2398	STATION STREET			Collector Gravity Main	1	2058	10	2066	2066					0	2066	2066	2141	45
4369	Collector	2398	STATION STREET			Collector Gravity Main	1	2058	10	2066	2066					0	2066	2066	2141	45
4370	Collector	2398	STATION STREET			Collector Gravity Main	1	2058	10	2066	2066					0	2066	2066	2141	45
4371	Collector	2421	PETER STREET			Catch Basin Lead Gravity Main	1	2058	10	2066	2066					0	2066	2066	2141	45
4372	Collector	2415	STATION STREET			Catch Basin Lead Gravity Main	1	2058	10	2066	2066					0	2066	2066	2141	45
4373	Collector	2398	STATION STREET			Catch Basin Lead Gravity Main	1	2058	10	2066	2066					0	2066	2066	2141	45
4374	Collector	2415	STATION STREET			Outfall Gravity Main	1	2058	10	2066	2066					0	2066	2066	2141	45
4375	Collector	2418	RUSSEL HILL ROAD			Catch Basin Lead Gravity Main	1	2058	10	2066	2066					0	2066	2066	2141	45
4376	Collector	2418	RUSSEL HILL ROAD			Catch Basin Lead Gravity Main	1	2058	10	2066	2066					0	2066	2066	2141	45

Storm - Catch Basin Inventory tax funded

Fixed Asset #	Subtype	Asset Name	Road Section GIS ID	Road Name	Road From	Road To	Water Type	Easting (m)	Northing (m)	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization System	2021 Net Book Value System	Replacement Cost	Condition Based On Useful Life	Assessed Condition	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure
											100	67.4	32.6	$ 276,838	$ 88,406	$ 188,432	$670,000			7				
2724	Catch Basin - Ditch Inlet Catch	Ditch Inlet Catch Basin - St. John St.	157	St. John Street			Storm	557884.28	4859977.8	1990	100	69	31	$5,270	$1,686	$3,583	$10,000	7		7	Good	Unlikely	Minor	L
2725	Catch Basin - Catch Basin	Catch Basin - St. John St. / Russel Hill Road	2417	ST. JOHN STREET	RUSSEL HILL ROAD	PETER STREET	Storm	557919.24	4859894.6	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2726	Catch Basin - Catch Basin	Catch Basin - Russel Hill Road / St. John St.	2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	Storm	557913.79	4859915.8	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2727	Catch Basin - Catch Basin	Catch Basin - Russel Hill / St. John St.	2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	Storm	557916.45	4859911	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2728	Catch Basin - Catch Basin	Catch Basin - St. John St.	2417	ST. JOHN STREET	RUSSEL HILL ROAD	PETER STREET	Storm	557970.69	4859835.4	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2729	Catch Basin - Catch Basin	Catch Basin - St. John St.	2417	ST. JOHN STREET	RUSSEL HILL ROAD	PETER STREET	Storm	557975.8	4859841.4	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2730	Catch Basin - Catch Basin	Catch Basin - St. John St.	2417	ST. JOHN STREET	RUSSEL HILL ROAD	PETER STREET	Storm	558036.35	4859771.6	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2731	Catch Basin - Manhole Catch E	Manhole Catch Basin - St. John St.	2417	St. John Street	RUSSEL HILL ROAD	PETER STREET	Storm	558040.58	4859778.5	1990	100	69	31	$4,918	$1,574	$3,344	$12,000	7		7	Good	Unlikely	Minor	L
2732	Catch Basin - Catch Basin	Catch Basin - St. John St.	2417	ST. JOHN STREET	RUSSEL HILL ROAD	PETER STREET	Storm	558117.17	4859709	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2733	Catch Basin - Catch Basin	Catch Basin - Peter Court	2449	PETER COURT			Storm	558287.25	4859745.7	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2734	Catch Basin - Catch Basin	Catch Basin - Peter Court	2449	PETER COURT			Storm	558291.73	4859752.5	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2735	Catch Basin - Catch Basin	Catch Basin - St. John St.	2418	Russel Hill Road	PETER STREET / PETER C	PETER STREET	Storm	558288.81	4859765.6	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2736	Catch Basin - Catch Basin	Catch Basin - St. John St.	2418	Russel Hill Road	PETER STREET / PETER C	PETER STREET	Storm	558282.36	4859770.2	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2737	Catch Basin - Catch Basin	Catch Basin - St. John St.	2418	Russel Hill Road	PETER STREET / PETER C	PETER STREET	Storm	558305.67	4859804.2	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2738	Catch Basin - Manhole Catch E	Manhole Catch Basin - St. John St.	2418	Russel Hill Road	PETER STREET / PETER C	PETER STREET	Storm	558311.94	4859800.4	1990	100	69	31	$4,918	$1,574	$3,344	$12,000	7		7	Good	Unlikely	Minor	L
2739	Catch Basin - Catch Basin	Catch Basin - Peter St.	2420	PETER STREET	RUSSEL HILL ROAD	PETER STREET / PETER	Storm	558194.76	4859813.7	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2740	Catch Basin - Catch Basin	Catch Basin - Peter St.	2420	PETER STREET	RUSSEL HILL ROAD	PETER STREET / PETER	Storm	558200.37	4859819	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2741	Catch Basin - Catch Basin	Catch Basin - Peter St.	2420	PETER STREET	RUSSEL HILL ROAD	PETER STREET / PETER	Storm	558164.18	4859903.6	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2742	Catch Basin - Catch Basin	Catch Basin - Peter St.	2420	PETER STREET	RUSSEL HILL ROAD	PETER STREET / PETER	Storm	558171.96	4859904.9	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2743	Catch Basin - Double Catch Ba	Double Catch Basin - Peter St / Russel Hill Road	2420	PETER STREET	RUSSEL HILL ROAD	PETER STREET / PETER	Storm	558153.02	4860035.3	1990	100	69	31	$4,918	$1,574	$3,344	$10,000	7		7	Good	Unlikely	Minor	L
2744	Catch Basin - Double Catch Ba	Double Catch Basin - Peter St / Russel Hill Road	2420	PETER STREET	RUSSEL HILL ROAD	PETER STREET / PETER	Storm	558145.74	4860032.1	1990	100	69	31	$4,918	$1,574	$3,344	$10,000	7		7	Good	Unlikely	Minor	L
2745	Catch Basin - Double Catch Ba	Double Catch Basin - Peter St / Russel Hill Road	2418	RUSSEL HILL ROAD	PETER STREET / PETER C	PETER STREET	Storm	558154.43	4860051.7	1990	100	69	31	$4,918	$1,574	$3,344	$10,000	7		7	Good	Unlikely	Minor	L
2746	Catch Basin - Double Catch Ba	Double Catch Basin - Peter St / Russel Hill Road	2418	RUSSEL HILL ROAD	PETER STREET / PETER C	PETER STREET	Storm	558155.83	4860044.4	1990	100	69	31	$4,918	$1,574	$3,344	$10,000	7		7	Good	Unlikely	Minor	L
2747	Catch Basin - Catch Basin	Catch Basin - Russel Hill Road	2418	RUSSEL HILL ROAD	PETER STREET / PETER C	PETER STREET	Storm	558299.47	4860019.1	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2748	Catch Basin - Catch Basin	Catch Basin - Russel Hill Road	2418	RUSSEL HILL ROAD	PETER STREET / PETER C	PETER STREET	Storm	558305.43	4860024.1	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2749	Catch Basin - Catch Basin	Catch Basin - Russel Hill Road	2418	RUSSEL HILL ROAD	PETER STREET / PETER C	PETER STREET	Storm	558328.48	4859954.5	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2750	Catch Basin - Catch Basin	Catch Basin - Russel Hill Road	2418	RUSSEL HILL ROAD	PETER STREET / PETER C	PETER STREET	Storm	558318.95	4859965.8	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2751	Catch Basin - Catch Basin	Catch Basin - Russel Hill Road	2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	Storm	558055.55	4859999.2	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2752	Catch Basin - Catch Basin	Catch Basin - Russel Hill Road	2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	Storm	558047.76	4860002.9	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2753	Catch Basin - Catch Basin	Catch Basin - Russel Hill Road	2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	Storm	558003.85	4859949.3	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2754	Catch Basin - Catch Basin	Catch Basin - Russel Hill Road	2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	Storm	557994.39	4859952.1	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2755	Catch Basin - Ditch Inlet Catch	Ditch Inlet Catch Basin - St. John St.	158	St. John Street			Storm	557958.93	4859867.6	1990	100	69	31	$5,270	$1,686	$3,583	$10,000	7		7	Good	Unlikely	Minor	L
2756	Catch Basin - Ditch Inlet Catch	Ditch Inlet Catch Basin - Peter St.	52	Peter Street			Storm	558166.51	4859991.1	1990	100	69	31	$5,270	$1,686	$3,583	$10,000	7		7	Good	Unlikely	Minor	L
2757	Catch Basin - Catch Basin	Catch Basin - St. John St / Station St.	2416	ST. JOHN STREET	STATION STREET	RUSSEL HILL ROAD	Storm	557861.12	4860078.3	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2758	Catch Basin - Catch Basin	Catch Basin - St. John St / Station St.	2416	ST. JOHN STREET	STATION STREET	RUSSEL HILL ROAD	Storm	557856.49	4860077.2	1990	100	69	31	$3,864	$1,237	$2,628	$8,000	7		7	Good	Unlikely	Minor	L
2759	Catch Basin - Double Manhole	Double Manhole Catch Basin - St. John St. / Walk	158	St. John Street			Storm	557907.53	4859896.2	1990	100	69	31	$4,918	$1,574	$3,344	$15,000	7		7	Good	Unlikely	Minor	L
2817	Catch Basin - Manhole Catch E	Manhole Catch Basin - James St.	106	James Street			Storm	557325.26	4859829.4	1986	100	65	35	$3,984	$1,434	$2,550	$12,000	7		7	Good	Unlikely	Minor	L
2818	Catch Basin - Ditch Inlet Catch	Ditch Inlet Manhole Catch Basin - Main St southv	2451	MAIN STREET	DAVID STREET	HENRY STREET	Storm	557427.63	4859852.8	1986	100	65	35	$4,268	$1,537	$2,732	$10,000	7		7	Good	Unlikely	Minor	L
2819	Catch Basin - Rear Lot Catch B	Rear Lot Catch Basin - south west end of James S	106	James Street			Storm	557244.65	4859774.6	1986	100	65	35	$4,268	$1,537	$2,732	$8,000	7		7	Good	Unlikely	Minor	L
2820	Catch Basin - Ditch Inlet Catch	Ditch Inlet Manhole Catch Basin - James St.	106	James Street			Storm	557320.22	4859795.4	1986	100	65	35	$4,268	$1,537	$2,732	$10,000	7		7	Good	Unlikely	Minor	L
2821	Catch Basin - Ditch Inlet Catch	Ditch Inlet Catch Basin - Peter St / Station St.	16	Station Street			Storm	558118.16	4860161.3	1990	100	69	31	$5,270	$1,686	$3,583	$10,000	7		7	Good	Unlikely	Minor	L
3018	Catch Basin - Ditch Inlet Catch	Ditch Inlet Catch Basin - Henry St / Main St	155	Henry Street			Storm	557397.37	4860039.2	1986	100	65	35	$4,268	$1,537	$2,732	$10,000	7		7	Good	Unlikely	Minor	L
3019	Catch Basin - Double Manhole	Double Manhole Catch Basin - Main St / Henry St	50	Main Street			Storm	557394.32	4860023.6	1986	100	65	35	$3,984	$1,434	$2,550	$15,000	7		7	Good	Unlikely	Minor	L
4317	DoubleCatchBasin	DoubleCatchBasin - 17 MILL ST	2425	17 MILL ST			Storm	557545.75	4859719	1986	100	65	35	3983.7	1195.12	2788.58	$10,000	7		7	Good	Unlikely	Minor	L
4318	DoubleCatchBasin	DoubleCatchBasin - 1 EVANS AVE	2447	1 EVANS AVE			Storm	557203.21	4860028.3	1986	100	65	35	3983.7	1195.12	2788.58	$10,000	7		7	Good	Unlikely	Minor	L
4319	Catch Basin	Catch Basin - 33 MILL ST	2399	33 MILL ST			Storm	557491.11	4859982.8	1986	100	65	35	2111	738.85	1372.15	$8,000	7		7	Good	Unlikely	Minor	L
4320	Catch Basin	Catch Basin - 34 STATION ST	2415	34 STATION ST			Storm	558138.02	4860168.4	1990	100	69	31	3864.3	1004.71	2859.59	$8,000	7		7	Good	Unlikely	Minor	L
4321	DoubleCatchBasin	DoubleCatchBasin - 14 JAMES ST	2447	14 JAMES ST			Storm	557320.39	4859830.2	1986	100	65	35	2687	940.45	1746.55	$10,000	7		7	Good	Unlikely	Minor	L
4322	DoubleCatchBasin	DoubleCatchBasin - 34 STATION ST	2421	34 STATION ST			Storm	558128.81	4860156.3	1990	100	69	31	4918.2	1278.73	3639.47	$10,000	7		7	Good	Unlikely	Minor	L
4323	Catch Basin	Catch Basin - 9 JAMES ST	2447	9 JAMES ST			Storm	557259.78	4859910.3	1986	100	65	35	2111	738.85	1372.15	$8,000	7		7	Good	Unlikely	Minor	L
4324	Catch Basin	Catch Basin - 20 STATION ST	2398	20 STATION ST			Storm	557943.63	4860111.7	1990	100	69	31	3864.3	1004.71	2859.59	$8,000	7		7	Good	Unlikely	Minor	L
4325	DoubleCatchBasin	DoubleCatchBasin - 4 HENRY ST	2413	4 HENRY ST			Storm	557333.87	4860023.1	1986	100	65	35	2687	940.45	1746.55	$10,000	7		7	Good	Unlikely	Minor	L
4326	Catch Basin	Catch Basin - 13 MILL ST	2425	13 MILL ST			Storm	557566.28	4859618.7	1986	100	65	35	2111	738.85	1372.15	$8,000	7		7	Good	Unlikely	Minor	L
4327	DoubleCatchBasin	DoubleCatchBasin - 8 HENRY ST	2413	8 HENRY ST			Storm	557268.86	4860061.2	1986	100	65	35	2687	940.45	1746.55	$10,000	7		7	Good	Unlikely	Minor	L
4328	Catch Basin	Catch Basin - 19 MILL ST	2425	19 MILL ST			Storm	557536.55	4859763.2	1986	100	65	35	2111	738.85	1372.15	$8,000	7		7	Good	Unlikely	Minor	L
4329	Catch Basin	Catch Basin - 29 RUSSELL HILL RD	2418	29 RUSSELL HILL RD			Storm	558239.44	4860065.2	1990	100	69	31	3864.3	1004.71	2859.59	$8,000	7		7	Good	Unlikely	Minor	L
4330	DitchInletCatchBasin	DitchInletCatchBasin - 33 MILL ST	2399	33 MILL ST			Storm	557487.05	4859990.4	1986	100	65	35	4268.25	1280.47	2987.78	$10,000	7		7	Good	Unlikely	Minor	L
4331	DitchInletCatchBasin	DitchInletCatchBasin - 34 STATION ST	2421	34 STATION ST			Storm	558132.16	4860154	1990	100	69	31	5269.5	1370.07	3899.43	$10,000	7		7	Good	Unlikely	Minor	L
4332	Catch Basin	Catch Basin - 15 JAMES ST	2447	15 JAMES ST			Storm	557290.16	4859871.8	1986	100	65	35	2111	738.85	1372.15	$8,000	7		7	Good	Unlikely	Minor	L
4333	Catch Basin	Catch Basin - 28 STATION ST	2398	28 STATION ST			Storm	558051.71	4860142	1990	100	69	31	3864.3	1004.71	2859.59	$8,000	7		7	Good	Unlikely	Minor	L
4334	Catch Basin	Catch Basin - 8 JAMES ST	2447	8 JAMES ST			Storm	557264.52	4859914.7	1986	100	65	35	2111	738.85	1372.15	$8,000	7		7	Good	Unlikely	Minor	L
4335	Catch Basin	Catch Basin - 15 MILL ST	2425	15 MILL ST			Storm	557555.93	4859670.5	1986	100	65	35	2111	738.85	1372.15	$8,000	7		7	Good	Unlikely	Minor	L
4336	DoubleCatchBasin	DoubleCatchBasin - 2 EVANS AVE	2427	2 EVANS AVE			Storm	557248.76	4860060.6	1986	100	65	35	2687	940.45	1746.55	$10,000	7		7	Good	Unlikely	Minor	L
4337	DoubleCatchBasin	DoubleCatchBasin - 16 MILL ST	2425	16 MILL ST			Storm	557554.5	4859721	1986	100	65	35	2687	940.45	1746.55	$10,000	7		7	Good	Unlikely	Minor	L
4338	DoubleCatchBasin	DoubleCatchBasin - 3 EVANS AVE	2447	3 EVANS AVE			Storm	557196.26	4860026.6	1986	100	65	35	2687	940.45	1746.55	$10,000	7		7	Good	Unlikely	Minor	L
4339	Catch Basin	Catch Basin - 25 MILL ST	2425	25 MILL ST			Storm	557520.6	4859841.5	1986	100	65	35	2111	738.85	1372.15	$8,000	7		7	Good	Unlikely	Minor	L
4340	Catch Basin	Catch Basin - 24 RUSSELL HILL RD	2418	24 RUSSELL HILL RD			Storm	558238.05	4860057	1990	100	69	31	3864.3	1004.71	2859.59	$8,000	7		7	Good	Unlikely	Minor	L
4341	DoubleCatchBasin	DoubleCatchBasin - 19 JAMES ST	2447	19 JAMES ST			Storm	557312.89	4859830.6	1986	100	65	35	2687	940.45	1746.55	$10,000	7		7	Good	Unlikely	Minor	L
4342	DoubleCatchBasin	DoubleCatchBasin - 32 STATION ST	2398	32 STATION ST			Storm	558120.37	4860159.2	1990	100	69	31	4918.2	1278.73	3639.47	$10,000	7		7	Good	Unlikely	Minor	L
4343	Catch Basin	Catch Basin - 10 JAMES ST	2447	10 JAMES ST			Storm	557296.02	4859875.3	1986	100	65	35	2111	738.85	1372.15	$8,000	7		7	Good	Unlikely	Minor	L
4344	Catch Basin	Catch Basin - 22 STATION ST	2398	22 STATION ST			Storm	557981.78	4860121.9	1990	100	69	31	3864.3	1004.71	2859.59	$8,000	7		7	Good	Unlikely	Minor	L
4345	DoubleCatchBasin	DoubleCatchBasin - 3 HENRY ST	2413	3 HENRY ST			Storm	557332.16	4860016.7	1986	100	65	35	2687	940.45	1746.55	$10,000	7		7	Good	Unlikely	Minor	L
4346	Catch Basin	Catch Basin - 9 CHURCH ST	2425	9 CHURCH ST			Storm	557575.66	4859607.2	1986	100	65	35	2111	738.85	1372.15	$8,000	7		7	Good	Unlikely	Minor	L
4347	DoubleCatchBasin	DoubleCatchBasin - 5 HENRY ST	2427	5 HENRY ST			Storm	557254.58	4860055.6	1986	100	65	35	2687	940.45	1746.55	$10,000	7		7	Good	Unlikely	Minor	L

Storm - Catch Basin Inventory tax funded

Fixed Asset #	Subtype	Numerical Value of Risk of Failure	Year Replacement due to minimal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Revised Remaining Useful Life		Rehabilitation Year	Rehabilitation Cost (2021)	2nd Rehabilitation Cost Year	2nd Rehabilitation Cost (2021 $)	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
		1															
2724	Catch Basin - Ditch Inlet Catch	1	2080	10	2090	68							0	2090	2090	2190	68
2725	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2726	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2727	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2728	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2729	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2730	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2731	Catch Basin - Manhole Catch B	1	2080	10	2090	68							0	2090	2090	2190	68
2732	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2733	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2734	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2735	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2736	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2737	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2738	Catch Basin - Manhole Catch B	1	2080	10	2090	68							0	2090	2090	2190	68
2739	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2740	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2741	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2742	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2743	Catch Basin - Double Catch Ba	1	2080	10	2090	68							0	2090	2090	2190	68
2744	Catch Basin - Double Catch Ba	1	2080	10	2090	68							0	2090	2090	2190	68
2745	Catch Basin - Double Catch Ba	1	2080	10	2090	68							0	2090	2090	2190	68
2746	Catch Basin - Double Catch Ba	1	2080	10	2090	68							0	2090	2090	2190	68
2747	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2748	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2749	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2750	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2751	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2752	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2753	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2754	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2755	Catch Basin - Ditch Inlet Catch	1	2080	10	2090	68							0	2090	2090	2190	68
2756	Catch Basin - Ditch Inlet Catch	1	2080	10	2090	68							0	2090	2090	2190	68
2757	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2758	Catch Basin - Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
2759	Catch Basin - Double Manhole	1	2080	10	2090	68							0	2090	2090	2190	68
2817	Catch Basin - Manhole Catch B	1	2076	10	2086	64							0	2086	2086	2186	64
2818	Catch Basin - Ditch Inlet Catch	1	2076	10	2086	64							0	2086	2086	2186	64
2819	Catch Basin - Rear Lot Catch B	1	2076	10	2086	64							0	2086	2086	2186	64
2820	Catch Basin - Ditch Inlet Catch	1	2076	10	2086	64							0	2086	2086	2186	64
2821	Catch Basin - Ditch Inlet Catch	1	2080	10	2090	68							0	2090	2090	2190	68
3018	Catch Basin - Ditch Inlet Catch	1	2076	10	2086	64							0	2086	2086	2186	64
3019	Catch Basin - Double Manhole	1	2076	10	2086	64							0	2086	2086	2186	64
4317	DoubleCatchBasin	1	2076	10	2086	64							0	2086	2086	2186	64
4318	DoubleCatchBasin	1	2076	10	2086	64							0	2086	2086	2186	64
4319	Catch Basin	1	2076	10	2086	64							0	2086	2086	2186	64
4320	Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
4321	DoubleCatchBasin	1	2076	10	2086	64							0	2086	2086	2186	64
4322	DoubleCatchBasin	1	2080	10	2090	68							0	2090	2090	2190	68
4323	Catch Basin	1	2076	10	2086	64							0	2086	2086	2186	64
4324	Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
4325	DoubleCatchBasin	1	2076	10	2086	64							0	2086	2086	2186	64
4326	Catch Basin	1	2076	10	2086	64							0	2086	2086	2186	64
4327	DoubleCatchBasin	1	2076	10	2086	64							0	2086	2086	2186	64
4328	Catch Basin	1	2076	10	2086	64							0	2086	2086	2186	64
4329	Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
4330	DitchInletCatchBasin	1	2076	10	2086	64							0	2086	2086	2186	64
4331	DitchInletCatchBasin	1	2080	10	2090	68							0	2090	2090	2190	68
4332	Catch Basin	1	2076	10	2086	64							0	2086	2086	2186	64
4333	Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
4334	Catch Basin	1	2076	10	2086	64							0	2086	2086	2186	64
4335	Catch Basin	1	2076	10	2086	64							0	2086	2086	2186	64
4336	DoubleCatchBasin	1	2076	10	2086	64							0	2086	2086	2186	64
4337	DoubleCatchBasin	1	2076	10	2086	64							0	2086	2086	2186	64
4338	DoubleCatchBasin	1	2076	10	2086	64							0	2086	2086	2186	64
4339	Catch Basin	1	2076	10	2086	64							0	2086	2086	2186	64
4340	Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
4341	DoubleCatchBasin	1	2076	10	2086	64							0	2086	2086	2186	64
4342	DoubleCatchBasin	1	2080	10	2090	68							0	2090	2090	2190	68
4343	Catch Basin	1	2076	10	2086	64							0	2086	2086	2186	64
4344	Catch Basin	1	2080	10	2090	68							0	2090	2090	2190	68
4345	DoubleCatchBasin	1	2076	10	2086	64							0	2086	2086	2186	64
4346	Catch Basin	1	2076	10	2086	64							0	2086	2086	2186	64
4347	DoubleCatchBasin	1	2076	10	2086	64							0	2086	2086	2186	64

Storm Manhole
Inventory - tax funded

Fixed Asset #	Asset Name	Water Type	Road Name	Road From	Road To	Access diameter (mm)	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization System	2021 Net Book Value System	Replacement Cost	Condition Based On Useful Life	Assessed Condition	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)
														$385,000					
								100	68	31	$ 184,081	$ 58,906	$ 125,175	$ 385,000			7		
2761	Manhole	Storm	St. Johns Street from Russell Hill to Station	STATION STREET	RUSSEL HILL ROAD	1200 mm	1990	100	68	31	$9,134	$2,923	$6,211	$19,000	7		7	Good	Unlikely
2762	Manhole	Storm	Russell Hill at St Johns St	ST. JOHN STREET	PETER STREET	1500 mm	1990	100	68	31	$10,890	$3,485	$7,405	$23,000	7		7	Good	Unlikely
2763	Manhole	Storm	Russell Hill east of St. Johns St.	ST. JOHN STREET	PETER STREET	1200 mm	1990	100	68	31	$9,134	$2,923	$6,211	$19,000	7		7	Good	Unlikely
2764	Manhole	Storm	Russell Hill east of St. Johns St.	ST. JOHN STREET	PETER STREET	1500 mm	1990	100	68	31	$10,890	$3,485	$7,405	$23,000	7		7	Good	Unlikely
2765	Manhole	Storm	Russell Hill west of Peter St.	ST. JOHN STREET	PETER STREET	1500 mm	1990	100	68	31	$10,890	$3,485	$7,405	$23,000	7		7	Good	Unlikely
2766	Manhole	Storm	Russell Hill at Peter St.	ST. JOHN STREET	PETER STREET	1500 mm	1990	100	68	31	$10,890	$3,485	$7,405	$23,000	7		7	Good	Unlikely
2767	Manhole	Storm	Peter St. south of Russell Hill	RUSSEL HILL ROAD	PETER STREET / PETER COURT	1200 mm	1990	100	68	31	$9,134	$2,923	$6,211	$19,000	7		7	Good	Unlikely
2768	Manhole	Storm	Russell Hill east of Peter St.	PETER STREET / PETER COURT	PETER STREET	1200 mm	1990	100	68	31	$9,134	$2,923	$6,211	$19,000	7		7	Good	Unlikely
2769	Manhole	Storm	Russell Hill east of Peter St.	PETER STREET / PETER COURT	PETER STREET	1200 mm	1990	100	68	31	$9,134	$2,923	$6,211	$19,000	7		7	Good	Unlikely
2770	Manhole	Storm	Russell Hill east of Peter St.	PETER STREET / PETER COURT	PETER STREET	1200 mm	1990	100	68	31	$9,134	$2,923	$6,211	$19,000	7		7	Good	Unlikely
2771	Manhole	Storm	Russell Hill east side	PETER STREET / PETER COURT	PETER STREET	1200 mm	1990	100	68	31	$9,134	$2,923	$6,211	$19,000	7		7	Good	Unlikely
2772	Manhole	Storm	Russell Hill at Peter Court	RUSSEL HILL ROAD	PETER STREET / PETER COURT	1200 mm	1990	100	68	31	$9,134	$2,923	$6,211	$19,000	7		7	Good	Unlikely
2773	Manhole	Storm	Peter St. north of Peter Court	RUSSEL HILL ROAD	PETER STREET / PETER COURT	1200 mm	1990	100	68	31	$9,134	$2,923	$6,211	$19,000	7		7	Good	Unlikely
2774	Manhole	Storm	Peter St. north of Peter Court	RUSSEL HILL ROAD	PETER STREET / PETER COURT	1200 mm	1990	100	68	31	$9,134	$2,923	$6,211	$19,000	7		7	Good	Unlikely
2775	Manhole	Storm	Peter St. south of Russell Hill	RUSSEL HILL ROAD	PETER STREET / PETER COURT	1200 mm	1990	100	68	31	$9,134	$2,923	$6,211	$19,000	7		7	Good	Unlikely
2776	Manhole	Storm	St. John St south end	STATION STREET	RUSSEL HILL ROAD	1200 mm	1990	100	68	31	$9,134	$2,923	$6,211	$19,000	7		7	Good	Unlikely
2777	Manhole	Storm	St. John St. south of Russell Hill	STATION STREET	RUSSEL HILL ROAD	1200 mm	1990	100	68	31	$9,134	$2,923	$6,211	$19,000	7		7	Good	Unlikely
2778	Manhole	Storm	End of Spillway off St. John St.	STATION STREET	RUSSEL HILL ROAD	1500 mm	1990	100	68	31	$10,890	$3,485	$7,405	$23,000	7		7	Good	Unlikely
3016	Manhole	Storm	Spillway off St. John St.	STATION STREET	RUSSEL HILL ROAD	1500 mm	1990	100	68	31	$10,890	$3,485	$7,405	$23,000	7		7	Good	Unlikely

Storm Manhole
Inventory - tax funded

Fixed Asset #	Asset Name	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimmal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life		Rehabiliation Year	Rehabiliation Cost (2021)	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
				2.0									$ -						
2761	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
2762	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
2763	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
2764	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
2765	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
2766	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
2767	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
2768	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
2769	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
2770	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
2771	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
2772	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
2773	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
2774	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
2775	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
2776	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
2777	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
2778	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69
3016	Manhole	Moderate	M	2	2080	10	2090	2090	2190	69					0	2090	2090	2190	69

Amaranth
Roads - Culvert Inventory
tax funded

Fixed Asset #	Map Link	Subtype	Street (Map Link ID)	Street Name	Address	From	To	Asset Name / Description	Height mm	Width mm	Length (m)	Material	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization	2021 Net Book Value	Replacement Cost	Condition Based On Useful Life	Condition from Town
														35	5	49	$187,542	$131,739	$55,804	$664,513		
927	927	Roads - Culvert		Amaranth 8th Line	293199 8TH LINE			Cross Road Culvert - 293199 8TH LINE	1000	1000	11	Corrugated Steel	1960	30	0	61	$185	$185	$0	$1,354	0	5
929	929	Roads - Culvert	2470	5th Sideroad	193273 AMARANTH-E LUTHER			Cross Road Culvert - 193273 AMARANTH-E LUTHER	1000	1000	17	Corrugated Steel	1987	30	0	34	$969	$969	$0	$1,980	0	5
936	936	Roads - Culvert		Amaranth 8th Line	293204 8TH LINE			Cross Road Culvert - 293204 8TH LINE	0	0	10	Corrugated Steel	1960	30	0	61	$176	$176	$0	$1,162	0	5
937	937	Roads - Culvert		Amaranth 8th Line	293204 8TH LINE			Cross Road Culvert - 293204 8TH LINE	0	0	10	Corrugated Steel	1960	30	0	61	$180	$180	$0	$1,247	0	5
	953	Roads - Culvert	2470	5th Sideroad	243099 5 SIDEROAD AMARANT			Cross Road Culvert - 243099 5 SIDEROAD AMARANTH	1000	1000	20	Corrugated Steel	1960	30	0	61	$360	$360	$0	$2,397	0	5
954	954	Roads - Culvert		Amaranth 9th Line	253229 9TH LINE			Cross Road Culvert - 253229 9TH LINE	0	0	8	Corrugated Steel	1960	30	0	61	$167	$167	$0	$978	0	5
955	955	Roads - Culvert		Amaranth 4th Line	433056 4TH LINE			Cross Road Culvert - 433056 4TH LINE	1000	1000	9	Corrugated Steel	1972	30	0	49	$244	$244	$0	$1,085	0	5
958	958	Roads - Culvert		Amaranth 6th Line	373115 6TH LINE			Cross Road Culvert - 373115 6TH LINE	1000	1000	12	Corrugated Steel	1960	30	0	61	$187	$187	$0	$1,385	0	5
959	959	Roads - Culvert		Amaranth 10th Line	243117 5 SIDEROAD AMARANT			Cross Road Culvert - 243117 5 SIDEROAD AMARANTH	1000	1000	11	Corrugated Steel	1960	30	0	61	$183	$183	$0	$1,314	0	5
982	982	Roads - Culvert		Amaranth 6th Line	373219 6TH LINE AMARANTH			Cross Road Culvert - 373219 6TH LINE AMARANTH	1000	1000	12	Corrugated Steel	1960	30	0	61	$189	$189	$0	$1,427	0	5
983	983	Roads - Culvert		Amaranth 9th Line	253370 9TH LINE			Cross Road Culvert - 253370 9TH LINE	0	0	10	Corrugated Steel	1960	30	0	61	$180	$180	$0	$1,233	0	5
984	984	Roads - Culvert		5th Sideroad	333268 7TH LINE			Cross Road Culvert - 333268 7TH LINE	0	0	11	Corrugated Steel	1960	30	0	61	$182	$182	$0	$1,288	0	5
987	987	Roads - Culvert		Amaranth 10th Line	213379 10TH LINE AMARANTH			Cross Road Culvert - 213379 10TH LINE AMARANTH	1000	1000	12	Corrugated Steel	1960	30	0	61	$190	$190	$0	$1,444	0	5
988	988	Roads - Culvert		Amaranth 7th Line	333301 7TH LINE AMARANTH			Cross Road Culvert - 333301 7TH LINE AMARANTH	0	0	12	Corrugated Steel	1960	30	0	61	$191	$191	$0	$1,474	0	5
989	989	Roads - Culvert		Amaranth 4th Line	433199 4TH LINE			Cross Road Culvert - 433199 4TH LINE	1000	1000	11	Corrugated Steel	1972	30	0	49	$258	$258	$0	$1,290	0	5
990	990	Roads - Culvert		5th Sideroad	333271 7TH LINE AMARANTH			Cross Road Culvert - 333271 7TH LINE AMARANTH	0	0	13	Corrugated Steel	1960	30	0	61	$197	$197	$0	$1,588	0	5
991	991	Roads - Culvert		Amaranth 10th Line	213452 10TH LINE			Cross Road Culvert - 213452 10TH LINE	1000	1000	13	Corrugated Steel	1960	30	0	61	$195	$195	$0	$1,553	0	5
998	998	Roads - Culvert	2404	Amaranth 10th Line	213005 10TH LINE			Cross Road Culvert - 213005 10TH LINE	1000	1000	25	Corrugated Steel	1985	30	0	36	$1,071	$1,071	$0	$2,973	0	5
1000	1000	Roads - Culvert	2404	Amaranth 10th Line	213016 10TH LINE			Cross Road Culvert - 213016 10TH LINE	1000	1000	24	Corrugated Steel	1985	30	0	36	$1,052	$1,052	$0	$2,881	0	5
1005	1005	Roads - Culvert	2305	Grandview Road	10 GRANDVIEW RD			Cross Road Culvert - 10 GRANDVIEW RD	1000	1000	13	Corrugated Steel	1960	30	0	61	$194	$194	$0	$1,532	0	5
1006	1006	Roads - Culvert	2305	Grandview Road	18 GRANDVIEW RD			Cross Road Culvert - 18 GRANDVIEW RD	0	0	13	Corrugated Steel	1960	30	0	61	$197	$197	$0	$1,589	0	5
1011	1011	Roads - Culvert	2459	Amaranth - East Luther-Grand Valley	193077 AMARANTH-E LUTH TL			Cross Road Culvert - 193077 AMARANTH-E LUTH TLINE	0	1000	11	Corrugated Steel	1993	30	2	28	$1,041	$972	$69	$1,355	1	5
1013	1013	Roads - Culvert	2424	Mill Street	213016 10TH LINE			Cross Road Culvert - 213016 10TH LINE	0	0	13	Corrugated Steel	1970	30	0	51	$256	$256	$0	$1,571	0	5
1015	1015	Roads - Culvert	2448	Church Street	2 CHURCH ST			Cross Road Culvert - 2 CHURCH ST	0	0	11	Corrugated Steel	2003	30	12	18	$1,252	$751	$501	$1,291	4	5
1018	1018	Roads - Culvert	2305	Grandview Road	44 GRANDVIEW RD			Cross Road Culvert - 44 GRANDVIEW RD	1000	1000	8	Corrugated Steel	1960	30	0	61	$165	$165	$0	$931	0	5
1024	1024	Roads - Culvert	2448	Church Street	7 CHURCH ST			Cross Road Culvert - 7 CHURCH ST	1000	1000	10	Corrugated Steel	2003	30	12	18	$1,224	$734	$490	$1,206	4	5
1027	1027	Roads - Culvert		Amaranth 8th Line	293032 8TH LINE			Cross Road Culvert - 293032 8TH LINE	0	0	15	Corrugated Steel	1960	30	0	61	$208	$208	$0	$1,824	0	5
1029	1029	Roads - Culvert	2314	Amaranth 9th Line	253048 9TH LINE AMARANTH			Cross Road Culvert - 253048 9TH LINE AMARANTH	1000	1000	14	Corrugated Steel	1993	30	2	28	$1,139	$1,063	$76	$1,718	1	5
1039	1039	Roads - Culvert	2397	Mill Street	33 MILL ST			Cross Road Culvert - 33 MILL ST	0	0	18	Corrugated Steel	1988	30	0	33	$1,070	$1,070	$0	$2,209	0	5
1041	1041	Roads - Culvert		Amaranth 7th Line	204263 COUNTY ROAD 109			Cross Road Culvert - 204263 COUNTY ROAD 109	1000	1000	18	Corrugated Steel	1960	30	0	61	$227	$227	$0	$2,213	0	5
1044	1044	Roads - Culvert	2397	Station Street	5 STATION ST			Cross Road Culvert - 5 STATION ST	0	0	17	Unknown / To Be Det	1988	30	0	33	$1,042	$1,042	$0	$2,085	0	5
1045	1045	Roads - Culvert	2422	Mill Street	35 MILL ST			Cross Road Culvert - 35 MILL ST	0	0	24	Corrugated Steel	1970	30	0	51	$340	$340	$0	$2,907	0	5
1048	1048	Roads - Culvert	2422	Amaranth 10th Line	35 MILL ST			Cross Road Culvert - 35 MILL ST	2000	2000	20	Corrugated Steel	1970	30	0	51	$306	$306	$0	$2,359	0	5
1053	1053	Roads - Culvert	2415	Station Street	223198 STATION ST			Cross Road Culvert - 223198 STATION ST	1000	1000	11	Corrugated Steel	2003	30	12	18	$1,253	$752	$501	$1,295	4	5
1057	1057	Roads - Culvert		Amaranth 10th Line	213156 10TH LINE AMARANTH			Cross Road Culvert - 213156 10TH LINE AMARANTH	0	0	12	Corrugated Steel	1993	30	2	28	$1,070	$999	$71	$1,463	1	5
1059	1059	Roads - Culvert		Amaranth 8th Line	293089 8TH LINE AMARANTH			Cross Road Culvert - 293089 8TH LINE AMARANTH	1000	1000	13	Corrugated Steel	1960	30	0	61	$193	$193	$0	$1,507	0	5
1070	1070	Roads - Culvert		Amaranth 6th Line	373008 6TH LINE			Cross Road Culvert - 373008 6TH LINE	0	0	11	Corrugated Steel	1960	30	0	61	$185	$185	$0	$1,337	0	5
1096	1096	Roads - Culvert		Amaranth 4th Line	205169 COUNTY ROAD 109			Cross Road Culvert - 205169 COUNTY ROAD 109	1000	1000	17	Corrugated Steel	1972	30	0	49	$312	$312	$0	$2,086	0	5
	1122	Roads - Culvert		Amaranth 4th Line	434026 4TH LINE			Cross Road Culvert - 434026 4TH LINE	1000	1000	14	Corrugated Steel	1960	30	0	61	$259	$259	$0	$1,724	0	5
1123	1123	Roads - Culvert		Amaranth 9th Line	254257 9TH LINE			Cross Road Culvert - 254257 9TH LINE	0	0	11	Corrugated Steel	1960	30	0	61	$184	$184	$0	$1,333	0	5
1133	1133	Roads - Culvert		Amaranth 7th Line	334104 7TH LINE			Cross Road Culvert - 334104 7TH LINE	0	0	12	Corrugated Steel	1960	30	0	61	$190	$190	$0	$1,454	0	5
1144	1144	Roads - Culvert	2407	Menary Drive	12 MENARY DR			Cross Road Culvert - 12 MENARY DR	0	0	11	Corrugated Steel	1988	30	0	33	$866	$866	$0	$1,311	0	5
1146	1146	Roads - Culvert	2407	Hornett Lane	12 MENARY DR			Cross Road Culvert - 12 MENARY DR	0	0	18	Corrugated Steel	1988	30	0	33	$1,050	$1,050	$0	$2,118	0	5
1147	1147	Roads - Culvert		Amaranth 6th Line	374027 6TH LINE			Cross Road Culvert - 374027 6TH LINE	1000	1000	13	Corrugated Steel	1960	30	0	61	$195	$195	$0	$1,563	0	5
1148	1148	Roads - Culvert	2432	Mono - Amaranth Townline	555708 MONO-AMARANTH TLIN			Cross Road Culvert - 555708 MONO-AMARANTH TLINE	2000	2000	25	Corrugated Steel	1971	30	0	50	$353	$353	$0	$2,952	0	5
1154	1154	Roads - Culvert	2464	Amaranth 2nd Line	205451 9 HWY			Cross Road Culvert - 205451 9 HWY	1000	1000	27	Corrugated Steel	1980	30	0	41	$778	$778	$0	$3,250	0	5
	1156	Roads - Culvert		5th Sideroad	243254 5TH SIDE RD			Cross Road Culvert - 243254 5TH SIDE RD	1000	1000	19	Corrugated Steel	1960	30	0	61	$348	$348	$0	$2,321	0	5
1161	1161	Roads - Culvert		Amaranth 7th Line	333209 7TH LINE			Cross Road Culvert - 333209 7TH LINE	2000	2000	8	Corrugated Steel	1960	30	0	61	$168	$168	$0	$985	0	5
	1169	Roads - Culvert		5th Sideroad	243272 5 SIDEROAD AMARANT			Cross Road Culvert - 243272 5 SIDEROAD AMARANTH	0	0	13	Corrugated Steel	1960	30	0	61	$232	$232	$0	$1,549	0	5
1174	1174	Roads - Culvert	2464	Amaranth 2nd Line	205399 COUNTY ROAD 109			Cross Road Culvert - 205399 COUNTY ROAD 109	0	0	15	Corrugated Steel	1980	30	0	41	$588	$588	$0	$1,848	0	5
	1175	Roads - Culvert		5th Sideroad	243357 5TH SIDEROAD AMARA			Cross Road Culvert - 243357 5TH SIDEROAD AMARANTH	0	0	11	Corrugated Steel	1960	30	0	61	$191	$191	$0	$1,270	0	5
1183	1183	Roads - Culvert	2409	Shannon Court	2 SHANNON CRT			Cross Road Culvert - 2 SHANNON CRT	0	0	14	Corrugated Steel	1991	30	0	30	$1,092	$1,092	$0	$1,644	0	5
1190	1190	Roads - Culvert		Amaranth 10th Line	243177 5TH SIDE RD			Cross Road Culvert - 243177 5TH SIDE RD	1000	1000	19	Corrugated Steel	1960	30	0	61	$231	$231	$0	$2,295	0	5
1198	1198	Roads - Culvert		Amaranth 4th Line	433131 4TH LINE AMARANTH			Cross Road Culvert - 433131 4TH LINE AMARANTH	0	0	14	Corrugated Steel	1972	30	0	49	$284	$284	$0	$1,670	0	5
1207	1207	Roads - Culvert	2464	Amaranth 2nd Line	513058 2ND LINE			Cross Road Culvert - 513058 2ND LINE	0	0	14	Corrugated Steel	1980	30	0	41	$562	$562	$0	$1,657	0	5
1209	1209	Roads - Culvert	2409	Shannon Court	15 SHANNON CRT			Cross Road Culvert - 15 SHANNON CRT	1000	1000	12	Corrugated Steel	1991	30	0	30	$1,041	$1,041	$0	$1,452	0	5
1212	1212	Roads - Culvert		Amaranth 4th Line	433143 4TH LINE			Cross Road Culvert - 433143 4TH LINE	0	0	11	Corrugated Steel	1972	30	0	49	$260	$260	$0	$1,321	0	5
1221	1221	Roads - Culvert		5th Sideroad	244311 5TH SIDEROAD			Cross Road Culvert - 244311 5TH SIDEROAD	0	0	9	Corrugated Steel	1960	30	0	61	$172	$172	$0	$1,066	0	5
1225	1225	Roads - Culvert		Amaranth 4th Line	433230 4TH LINE			Cross Road Culvert - 433230 4TH LINE	2000	2000	8	Corrugated Steel	1972	30	0	49	$233	$233	$0	$925	0	5
1231	1231	Roads - Culvert		Amaranth 8th Line	293415 8TH LINE			Cross Road Culvert - 293415 8TH LINE	1000	1000	18	Corrugated Steel	1960	30	0	61	$224	$224	$0	$2,156	0	5
1234	1234	Roads - Culvert		Amaranth 9th Line	253468 9TH LINE AMARANTH			Cross Road Culvert - 253468 9TH LINE AMARANTH	1000	1000	11	Corrugated Steel	1960	30	0	61	$186	$186	$0	$1,366	0	5

Fixed Asset #	Map Link	Subtype	Street (Map Link ID)	Street Name	Address	From	To	Asset Name / Description	Height mm	Width mm	Length (m)	Material	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization	2021 Net Book Value	Replacement Cost	Condition Based On Useful Life	Condition from Town
1236	1236	Roads - Culvert		5th Sideroad	393330 COUNTY ROAD 12			Cross Road Culvert - 393330 COUNTY ROAD 12	0	0	11	Corrugated Steel	1960	30	0	61	$183	$183	$0	$1,304	0	5
1240	1240	Roads - Culvert		Amaranth 8th Line	293415 8TH LINE AMARANTH			Cross Road Culvert - 293415 8TH LINE AMARANTH	1000	1000	12	Corrugated Steel	1960	30	0	61	$192	$192	$0	$1,492	0	5
1241	1241	Roads - Culvert		5th Sideroad	245060 5 SIDEROAD AMARANT			Cross Road Culvert - 245060 5 SIDEROAD AMARANTH	1000	1000	13	Corrugated Steel	1960	30	0	61	$197	$197	$0	$1,601	0	5
	1243	Roads - Culvert		Amaranth 6th Line	244311 5TH SIDEROAD			Cross Road Culvert - 6th Line	1000	1000	7	Corrugated Steel	1960	30	0	61	$126	$126	$0	$791	0	5
1246	1246	Roads - Culvert	2432	Mono - Amaranth Townline	5 MAPLEWOOD DRIVE			Cross Road Culvert - 5 MAPLEWOOD DRIVE	2000	2000	21	Corrugated Steel	1971	30	0	50	$322	$322	$0	$2,475	0	5
1248	1248	Roads - Culvert	2400	Maplewood Drive	54 MAPLEWOOD DR			Cross Road Culvert - 54 MAPLEWOOD DR	0	0	18	Corrugated Steel	1971	30	0	50	$298	$298	$0	$2,106	0	5
1252	1252	Roads - Culvert	2401	Mapelwood Drive	49 MAPLEWOOD DRIVE			Cross Road Culvert - 49 MAPLEWOOD DRIVE	1000	1000	13	Corrugated Steel	1971	30	0	50	$260	$260	$0	$1,507	0	5
1254	1254	Roads - Culvert		5th Sideroad	245060 5TH SIDE RD			Cross Road Culvert - 245060 5TH SIDE RD	0	0	9	Corrugated Steel	1960	30	0	61	$170	$170	$0	$1,027	0	5
1255	1255	Roads - Culvert		Amaranth 9th Line	253468 9TH LINE			Cross Road Culvert - 253468 9TH LINE	0	0	9	Corrugated Steel	1960	30	0	61	$173	$173	$0	$1,096	0	5
1266	1266	Roads - Culvert		Amaranth 10th Line	n/a			Cross Road Culvert - 10th Line south of County Rd 10 Lot	2000	2000	10	Corrugated Steel	1960	30	0	61	$178	$178	$0	$1,207	0	5
1272	1272	Roads - Culvert		Amaranth 8th Line	293454 8TH LINE (AMARANTH)			Cross Road Culvert - 293454 8TH LINE (AMARANTH)	2000	2000	26	Corrugated Steel	1960	30	0	61	$268	$268	$0	$3,069	0	5
1275	1275	Roads - Culvert		5th Sideroad	245097 5TH SIDEROAD			Cross Road Culvert - 245097 5TH SIDEROAD	0	0	10	Corrugated Steel	1972	30	0	49	$251	$251	$0	$1,185	0	5
1276	1276	Roads - Culvert		5th Sideroad	245200 5 SIDEROAD			Cross Road Culvert - 245200 5 SIDEROAD	1000	1000	11	Corrugated Steel	1972	30	0	49	$263	$263	$0	$1,371	0	5
1287	1287	Roads - Culvert		Amaranth 2nd Line	513236 2ND LINE			Cross Road Culvert - 513236 2ND LINE	0	0	13	Corrugated Steel	1980	30	0	41	$543	$543	$0	$1,514	0	5
1290	1290	Roads - Culvert	2454	Amaranth - East Luther-Grand Valley	283017 COUNTY ROAD 10			Cross Road Culvert - 283017 COUNTY ROAD 10	0	0	21	Corrugated Steel	1993	30	2	28	$1,356	$1,265	$91	$2,519	1	5
1295	1295	Roads - Culvert		5th Sideroad	245199 5TH SIDEROAD			Cross Road Culvert - 245199 5TH SIDEROAD	0	0	15	Corrugated Steel	1960	30	0	61	$206	$206	$0	$1,782	0	5
1296	1296	Roads - Culvert		5th Sideroad	245199 5TH SIDEROAD			Cross Road Culvert - 245199 5TH SIDEROAD	0	0	13	Corrugated Steel	1960	30	0	61	$195	$195	$0	$1,545	0	5
1297	1297	Roads - Culvert		Amaranth 9th Line	253504 9TH LINE AMARANTH			Cross Road Culvert - 253504 9TH LINE AMARANTH	1000	1000	10	Corrugated Steel	1960	30	0	61	$105	$105	$0	$1,168	0	5
1302	1302	Roads - Culvert	2408	Hornett Lane	285020 COUNTY ROAD 10			Cross Road Culvert - 285020 COUNTY ROAD 10	0	0	17	Corrugated Steel	1988	30	0	33	$1,042	$1,042	$0	$2,085	0	5
1303	1303	Roads - Culvert		Amaranth 8th Line	294120 8TH LINE			Cross Road Culvert - 294120 8TH LINE	0	0	12	Corrugated Steel	1960	30	0	61	$188	$188	$0	$1,399	0	5
	1304	Roads - Culvert		Amaranth 2nd Line	513501 2ND LINE			Cross Road Culvert - 513501 2ND LINE	0	0	12	Corrugated Steel	1960	30	0	61	$216	$216	$0	$1,396	0	5
1312	1312	Roads - Culvert		Amaranth 9th Line	254207 9TH LINE			Cross Road Culvert - 254207 9TH LINE	0	0	17	Corrugated Steel	1960	30	0	61	$221	$221	$0	$2,085	0	5
1313	1313	Roads - Culvert		Amaranth 10th Line	214198 10TH LINE			Cross Road Culvert - 214198 10TH LINE	0	0	15	Corrugated Steel	1960	30	0	61	$210	$210	$0	$1,856	0	5
1318	1318	Roads - Culvert		Amaranth 4th Line	434026 4TH LINE			Cross Road Culvert - 434026 4TH LINE	0	0	11	Corrugated Steel	1972	30	0	49	$257	$257	$0	$1,281	0	5
1322	1322	Roads - Culvert		Amaranth 7th Line	334149 7TH LINE AMARANTH			Cross Road Culvert - 334149 7TH LINE AMARANTH	0	0	15	Corrugated Steel	1960	30	0	61	$207	$207	$0	$1,808	0	5
	1323	Roads - Culvert		Amaranth 4th Line	434026 4TH LINE			Cross Road Culvert - 434026 4TH LINE	1000	1000	11	Corrugated Steel	1960	30	0	61	$198	$198	$0	$1,361	0	5
1325	1325	Roads - Culvert		Amaranth 9th Line	254207 9TH LINE			Cross Road Culvert - 254207 9TH LINE	1000	1000	11	Corrugated Steel	1960	30	0	61	$182	$182	$0	$1,281	0	5
1328	1328	Roads - Culvert		Amaranth 10th Line	214292 10TH LINE AMARANTH			Cross Road Culvert - 214292 10TH LINE AMARANTH	0	0	15	Corrugated Steel	1960	30	0	61	$204	$204	$0	$1,748	0	5
1333	1333	Roads - Culvert	2466	Mono - Amaranth Townline 08	553516 MONO-AMARAN TLINE			Cross Road Culvert - 553516 MONO-AMARAN TLINE	1000	3000	13	Pre-Cast Concrete	1993	80	52	28	$1,099	$384	$715	$5,000	7	
1335	1335	Roads - Culvert		Amaranth 10th Line	214292 10TH LINE AMARANT			Cross Road Culvert - 214292 10TH LINE AMARANT	0	0	11	Corrugated Steel	1960	30	0	61	$181	$181	$0	$1,264	0	5
1344	1344	Roads - Culvert		15th Sideroad	343048 15TH SIDE RD			Cross Road Culvert - 343048 15TH SIDE RD	1000	1000	13	Corrugated Steel	1960	30	0	61	$196	$196	$0	$1,567	0	5
1357	1357	Roads - Culvert		Amaranth 2nd Line	513297 2ND LINE			Cross Road Culvert - 513297 2ND LINE	1000	1000	15	Corrugated Steel	1980	30	0	41	$580	$580	$0	$1,789	0	5
1358	1358	Roads - Culvert	2439	5th Sideroad	245384 5 SIDEROAD AMARANT			Cross Road Culvert - 245384 5 SIDEROAD AMARANTH	0	0	13	Corrugated Steel	1990	30	0	31	$1,014	$1,014	$0	$1,511	0	5
1359	1359	Roads - Culvert		Amaranth 6th Line	373416 6TH LINE AMARANTH			Cross Road Culvert - 373416 6TH LINE AMARANTH	1000	1000	10	Corrugated Steel	1960	30	0	61	$178	$178	$0	$1,203	0	5
1363	1363	Roads - Culvert	2439	5th Sideroad	245384 5TH SIDE RD			Cross Road Culvert - 245384 5TH SIDE RD	1000	1000	13	Corrugated Steel	1990	30	0	31	$1,035	$1,035	$0	$1,593	0	5
1365	1365	Roads - Culvert		Amaranth 4th Line	433394 4TH LINE			Cross Road Culvert - 433394 4TH LINE	2000	2000	15	Corrugated Steel	1972	30	0	49	$291	$291	$0	$1,779	0	5
	1366	Roads - Culvert		Amaranth 7th Line	333528 7TH LINE			Cross Road Culvert - 333528 7TH LINE	0	0	12	Corrugated Steel	1960	30	0	61	$216	$216	$0	$1,390	0	5
1367	1367	Roads - Culvert		Amaranth 8th Line	293515 8TH LINE			Cross Road Culvert - 293515 8TH LINE	0	0	11	Corrugated Steel	1960	30	0	61	$183	$183	$0	$1,297	0	5
1373	1373	Roads - Culvert	2393	5th Sideroad	245440 5TH SIDE RD			Cross Road Culvert - 245440 5TH SIDE RD	0	0	15	Corrugated Steel	1985	30	0	36	$836	$836	$0	$1,774	0	5
1374	1374	Roads - Culvert		Amaranth 2nd Line	513327 2ND LINE			Cross Road Culvert - 513327 2ND LINE	1000	1000	12	Corrugated Steel	1960	30	0	61	$188	$188	$0	$1,416	0	5
1376	1376	Roads - Culvert		Amaranth 9th Line	253583 9TH LINE			Cross Road Culvert - 253583 9TH LINE	0	0	18	Corrugated Steel	1960	30	0	61	$223	$223	$0	$2,139	0	5
1378	1378	Roads - Culvert	2395	Crago Road	245440 5TH SIDE RD			Cross Road Culvert - 245440 5TH SIDE RD	0	0	18	Corrugated Steel	1979	30	0	42	$570	$570	$0	$2,134	0	5
1381	1381	Roads - Culvert		Amaranth 4th Line	435670 4TH LINE AMARANTH			Cross Road Culvert - 435670 4TH LINE AMARANTH	1000	1000	17	Corrugated Steel	1978	30	0	43	$515	$515	$0	$2,081	0	5
1399	1399	Roads - Culvert		Amaranth 8th Line	293565 8TH LINE			Cross Road Culvert - 293565 8TH LINE	1000	1000	11	Corrugated Steel	1960	30	0	61	$181	$181	$0	$1,263	0	5
	1408	Roads - Culvert	2375	20th Sideroad	385169 20TH SIDE RD			Cross Road Culvert - 385169 20TH SIDE RD	0	0	17	Corrugated Steel	1960	30	0	61	$306	$306	$0	$2,022	0	5
	1416	Roads - Culvert	2375	20th Sideroad	385206 20TH SIDE RD			Cross Road Culvert - 385206 20TH SIDE RD	2000	2000	14	Corrugated Steel	1960	30	0	61	$252	$252	$0	$1,690	0	5
	1419	Roads - Culvert	2375	20th Sideroad	475032 COUNTY ROAD 11			Cross Road Culvert - 475032 COUNTY ROAD 11	0	0	23	Corrugated Steel	1960	30	0	61	$414	$414	$0	$2,816	0	5
1422	1422	Roads - Culvert		Amaranth 2nd Line	514610 2ND LINE			Cross Road Culvert - 514610 2ND LINE	0	0	15	Corrugated Steel	1960	30	0	61	$208	$208	$0	$1,819	0	5
1423	1423	Roads - Culvert		Amaranth 2nd Line	515020 2ND LINE			Cross Road Culvert - 515020 2ND LINE	0	0	14	Corrugated Steel	1960	30	0	61	$201	$201	$0	$1,679	0	5
1431	1431	Roads - Culvert	2465	Mono - Amaranth Townline 10	245440 5TH SIDE RD			Cross Road Culvert - 245440 5TH SIDE RD	1000	1000	11	Corrugated Steel	1993	30	2	28	$1,023	$955	$68	$1,288	1	5
1442	1442	Roads - Culvert		Amaranth 8th Line	283372 COUNTY ROAD 10			Cross Road Culvert - 283372 COUNTY ROAD 10	1000	1000	10	Corrugated Steel	1960	30	0	61	$180	$180	$0	$1,234	0	5
1452	1452	Roads - Culvert	2306	McKibbon Avenue	30 MCKIBBON AVE			Cross Road Culvert - 30 MCKIBBON AVE	1000	1000	21	Corrugated Steel	1979	30	0	42	$611	$611	$0	$2,472	0	5
1453	1453	Roads - Culvert		Amaranth 7th Line	284156 COUNTY ROAD 10			Cross Road Culvert - 284156 COUNTY ROAD 10	0	0	14	Corrugated Steel	1960	30	0	61	$203	$203	$0	$1,726	0	5
1457	1457	Roads - Culvert		Amaranth 10th Line	214115 10TH LINE			Cross Road Culvert - 214115 10TH LINE	0	0	14	Corrugated Steel	1960	30	0	61	$203	$203	$0	$1,724	0	5
1458	1458	Roads - Culvert		Amaranth 9th Line	283335 COUNTY ROAD 10			Cross Road Culvert - 283335 COUNTY ROAD 10	1000	1000	14	Corrugated Steel	1960	30	0	61	$203	$203	$0	$1,723	0	5
1464	1464	Roads - Culvert	2396	Hughson Street	33 HUGHSON ST			Cross Road Culvert - 33 HUGHSON ST	1000	1000	16	Corrugated Steel	1979	30	0	42	$547	$547	$0	$1,954	0	5
1472	1472	Roads - Culvert		Amaranth 7th Line	284126 COUNTY ROAD 10			Cross Road Culvert - 284126 COUNTY ROAD 10	0	0	14	Corrugated Steel	1960	30	0	61	$200	$200	$0	$1,668	0	5
1480	1480	Roads - Culvert		Amaranth 8th Line	293608 8TH LINE			Cross Road Culvert - 293608 8TH LINE	0	0	11	Corrugated Steel	1960	30	0	61	$185	$185	$0	$1,341	0	5
1484	1484	Roads - Culvert		McKibbon Avenue	21 HUGHSON ST			Cross Road Culvert - 21 HUGHSON ST	0	0	17	Corrugated Steel	1979	30	0	42	$561	$561	$0	$2,067	0	5
1487	1487	Roads - Culvert		Amaranth 8th Line	294015 8TH LINE			Cross Road Culvert - 294015 8TH LINE	1000	1000	12	Corrugated Steel	1960	30	0	61	$0	$0	$0	$1,404	0	5
1488	1488	Roads - Culvert		Crago Road	45 CRAGO RD			Cross Road Culvert - 45 CRAGO RD	0	0	15	Corrugated Steel	1979	30	0	42	$531	$531	$0	$1,821	0	5
1497	1497	Roads - Culvert	2387	Amaranth 4th Line	434354 4TH LINE			Cross Road Culvert - 434354 4TH LINE	1000	1000	12	Corrugated Steel	1972	30	0	49	$265	$265	$0	$1,398	0	5
1500	1500	Roads - Culvert		Amaranth 10th Line	383164 20TH SIDEROAD			Cross Road Culvert - 383164 20TH SIDEROAD	0	0	10	Corrugated Steel	1960	30	0	61	$177	$177	$0	$1,182	0	5
1501	1501	Roads - Culvert	2385	Amaranth - East Luther-Grand Valley	383015 20 SIDEROAD			Cross Road Culvert - 383015 20 SIDEROAD	0	0	13	Corrugated Steel	2004	30	13	17	$1,363	$772	$591	$1,564	4	5
1513	1513	Roads - Culvert		Amaranth 7th Line	334527 7TH LINE			Cross Road Culvert - 334527 7TH LINE	1000	1000	15	Corrugated Steel	1960	30	0	61	$209	$209	$0	$1,843	0	5
1514	1514	Roads - Culvert		Amaranth 7th Line	334527 7TH LINE			Cross Road Culvert - 334527 7TH LINE	1000	1000	16	Corrugated Steel	1960	30	0	61	$213	$213	$0	$1,926	0	5

Fixed Asset #	Map Link	Subtype	Street (Map Link ID)	Street Name	Address	From	To	Asset Name / Description	Height mm	Width mm	Length (m)	Material	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization	2021 Net Book Value	Replacement Cost	Condition Based On Useful Life	Condition from Town
1515	1515	Roads - Culvert		Amaranth 7th Line	334527 7TH LINE			Cross Road Culvert - 334527 7TH LINE	0	0	11	Unknown / To Be Det	1960	30	0	61	$184	$184	$0	$1,327	0	5
1518	1518	Roads - Culvert	2370	20th Sideroad	383164 20TH SIDE RD			Cross Road Culvert - 383164 20TH SIDE RD	1000	1000	15	Corrugated Steel	1969	30	0	52	$265	$265	$0	$1,858	0	5
1525	1525	Roads - Culvert	2385	Amaranth - East Luther-Grand Valley	293199 20 SIDEROAD AMARAR			Cross Road Culvert - 293199 20 SIDEROAD AMARARANTI	0	0	11	Corrugated Steel	2004	30	13	17	$1,278	$724	$554	$1,311	4	5
1527	1527	Roads - Culvert		Amaranth 6th Line	374448 6TH LINE AMARANTH			Cross Road Culvert - 374448 6TH LINE AMARANTH	1000	1000	10	Corrugated Steel	1960	30	0	61	$178	$178	$0	$1,206	0	5
1535	1535	Roads - Culvert	2380	Amaranth - East Luther-Grand Valley	195067 AMARANTH-E LUTH TLI			Cross Road Culvert - 195067 AMARANTH-E LUTH TLINE	1000	1000	15	Corrugated Steel	2006	30	15	15	$1,505	$753	$752	$1,835	5	
1536	1536	Roads - Culvert		20th Sideroad 383269	383299 20 SIDEROAD AMARAN			Cross Road Culvert - 383299 20 SIDEROAD AMARANTH	1000	1000	12	Corrugated Steel	1960	30	0	61	$191	$191	$0	$1,462	0	5
1543	1543	Roads - Culvert		Amaranth 2nd Line	474335 3RD LINE			Cross Road Culvert - 474335 3RD LINE	1000	1000	15	Corrugated Steel	1960	30	0	61	$204	$204	$0	$1,747	0	5
1545	1545	Roads - Culvert		Amaranth 10th Line	383171 20TH SIDE RD			Cross Road Culvert - 383171 20TH SIDE RD	1000	1000	10	Corrugated Steel	1960	30	0	61	$178	$178	$0	$1,193	0	5
1547	1547	Roads - Culvert		Amaranth 9th Line	383245 20TH SIDE RD			Cross Road Culvert - 383245 20TH SIDE RD	0	0	15	Corrugated Steel	1960	30	0	61	$205	$205	$0	$1,755	0	5
1548	1548	Roads - Culvert	2392	20th Sideroad	383336 20TH SIDE RD			Cross Road Culvert - 383336 20TH SIDE RD	2000	2000	18	Corrugated Steel	1969	30	0	52	$282	$282	$0	$2,142	0	5
1556	1556	Roads - Culvert	2402	20th Sideroad	383342 20TH SIDE RD			Cross Road Culvert - 383342 20TH SIDE RD	0	0	13	Corrugated Steel	1969	30	0	52	$244	$244	$0	$1,509	0	5
	1561	Roads - Culvert	2386	Amaranth 4th Line	434430 4TH LINE			Cross Road Culvert - 434430 4TH LINE	1000	1000	8	Corrugated Steel	1960	30	0	61	$144	$144	$0	$948	0	5
	1564	Roads - Culvert		Amaranth 6th Line	374518 6TH LINE			Cross Road Culvert - 374518 6TH LINE	0	0	10	Corrugated Steel	1960	30	0	61	$180	$180	$0	$1,253	0	5
1565	1565	Roads - Culvert		Amaranth 8th Line	383401 20TH SIDE RD			Cross Road Culvert - 383401 20TH SIDE RD	0	0	12	Corrugated Steel	1960	30	0	61	$188	$188	$0	$1,407	0	5
1567	1567	Roads - Culvert	2380	Amaranth - East Luther-Grand Valley	N/A			Cross Road Cuvert - Amaranth / East Luther TL - Lot 23	1000	1000	11	Corrugated Steel	2006	30	15	15	$1,346	$673	$673	$1,375	5	
1568	1568	Roads - Culvert	2371	20th Sideroad	384030 20TH SIDE RD			Cross Road Culvert - 384030 20TH SIDE RD	0	0	12	Corrugated Steel	1969	30	0	52	$237	$237	$0	$1,391	0	5
1570	1570	Roads - Culvert		Amaranth 9th Line	255072 9TH LINE			Cross Road Culvert - 255072 9TH LINE	1000	1000	15	Corrugated Steel	1960	30	0	61	$205	$205	$0	$1,772	0	5
1571	1571	Roads - Culvert	2371	20th Sideroad	384126 20TH SIDE RD			Cross Road Culvert - 384126 20TH SIDE RD	2000	2000	16	Corrugated Steel	1969	30	0	52	$266	$266	$0	$1,869	0	5
1574	1574	Roads - Culvert		Amaranth 2nd Line	514465 2ND LINE			Cross Road Culvert - 514465 2ND LINE	1000	1000	15	Corrugated Steel	1960	30	0	61	$206	$206	$0	$1,785	0	5
1579	1579	Roads - Culvert		30th Sideroad	435570 4TH LINE			Cross Road Culvert - 435570 4TH LINE	0	0	10	Corrugated Steel	1960	30	0	61	$179	$179	$0	$1,229	0	5
1581	1581	Roads - Culvert		Amaranth 7th Line	504204 HIGHWAY 89			Cross Road Culvert - 504204 HIGHWAY 89	1000	1000	11	Corrugated Steel	1960	30	0	61	$185	$185	$0	$1,345	0	5
1582	1582	Roads - Culvert		Amaranth 4th Line	435570 4TH LINE			Cross Road Culvert - 435570 4TH LINE	0	0	11	Corrugated Steel	1978	30	0	43	$434	$434	$0	$1,360	0	5
1585	1585	Roads - Culvert		Amaranth 4th Line	435651 4TH LINE			Cross Road Culvert - 435651 4TH LINE	1000	1000	18	Corrugated Steel	1978	30	0	43	$525	$525	$0	$2,168	0	5
	1589	Roads - Culvert		30th Sideroad	485182 30TH SIDE RD			Cross Road Culvert - 485182 30TH SIDE RD	0	0	11	Corrugated Steel	1960	30	0	61	$185	$185	$0	$1,315	0	5
	1595	Roads - Culvert		30th Sideroad	<Null>			Cross Road Culvert - 30th SR, West of County Rd 12	0	0	6	Corrugated Steel	1960	30	0	61	$120	$120	$0	$778	0	5
1599	1599	Roads - Culvert		Amaranth 2nd Line	515582 2ND LINE			Cross Road Culvert - 515582 2ND LINE	2000	2000	21	Corrugated Steel	1971	30	0	50	$325	$325	$0	$2,525	0	5
1601	1601	Roads - Culvert		Amaranth 6th Line	50429 HIGHWAY 89			Cross Road Culvert - 50429 HIGHWAY 89	1000	1000	15	Corrugated Steel	1960	30	0	61	$205	$205	$0	$1,766	0	5
1604	1604	Roads - Culvert		Amaranth 2nd Line	2 DEVONLEIGH DR			Cross Road Culvert - 2 DEVONLEIGH DR	1000	1000	18	Corrugated Steel	1971	30	0	50	$299	$299	$0	$2,118	0	5
1605	1605	Roads - Culvert		Amaranth 2nd Line	2 DEVONLEIGH DR			Cross Road Culvert - 2 DEVONLEIGH DR	1000	1000	20	Corrugated Steel	1971	30	0	50	$321	$321	$0	$2,451	0	5
1608	1608	Roads - Culvert		30th Sideroad	2 DEVONLEIGH DR			Cross Road Culvert - 2 DEVONLEIGH DR	2000	2000	17	Corrugated Steel	1971	30	0	50	$296	$296	$0	$2,070	0	5
1612	1612	Roads - Culvert	2450	30th Sideroad	2 DEVONLEIGH DR			Cross Road Culvert - 2 DEVONLEIGH DR	0	0	20	Corrugated Steel	2001	30	10	20	$1,534	$1,023	$511	$2,387	3	5
1613	1613	Roads - Culvert		Mono - Amaranth Townline	555590 MONO-AMARAN TLINE			Cross Road Culvert - 555590 MONO-AMARAN TLINE	0	0	13	Corrugated Steel	1960	30	0	61	$198	$198	$0	$1,613	0	5
1616	1616	Roads - Culvert	2431	30th Sideroad	5 DEVONLEIGH DR			Cross Road Culvert - 5 DEVONLEIGH DR	0	0	17	Corrugated Steel	2001	30	10	20	$1,413	$942	$471	$2,001	3	5
1620	1620	Roads - Culvert	2450	30th Sideroad	29 DEVONLEIGH DR			Cross Road Culvert - 29 DEVONLEIGH DR	0	0	21	Corrugated Steel	2001	30	10	20	$1,578	$1,052	$526	$2,528	3	5
1621	1621	Roads - Culvert	2450	30th Sideroad	30 DEVONLEIGH DR			Cross Road Culvert - 30 DEVONLEIGH DR	0	0	22	Corrugated Steel	2001	30	10	20	$1,606	$1,071	$535	$2,616	3	5
1622	1622	Roads - Culvert	2431	30th Sideroad	30 DEVONLEIGH DR			Cross Road Culvert - 30 DEVONLEIGH DR	1000	1000	21	Corrugated Steel	2001	30	10	20	$1,574	$1,049	$525	$2,513	3	5
1623	1623	Roads - Culvert	2406	30th Sideroad	48547 30TH SIDE RD			Cross Road Culvert - 48547 30TH SIDE RD	0	0	20	Corrugated Steel	2001	30	10	20	$1,520	$1,013	$507	$2,342	3	5
1624	1624	Roads - Culvert		Mono - Amaranth Townline	N/A			Cross Road Culvert - Amaranth / Mono TL South 30th SR	0	0	27	Corrugated Steel	1960	30	0	61	$275	$275	$0	$3,222	0	5
1625	1625	Roads - Culvert	2475	30th Sideroad	555616 MONO-AMARANTH TLIN			Cross Road Culvert - 555616 MONO-AMARANTH TLINE	0	0	15	Corrugated Steel	2001	30	10	20	$1,355	$904	$451	$1,818	3	5
1626	1626	Roads - Culvert		Amaranth 4th Line	505164 HIGHWAY 89			Cross Road Culvert - 505164 HIGHWAY 89	1000	1000	17	Corrugated Steel	1978	30	0	43	$513	$513	$0	$2,062	0	5
1632	1632	Roads - Culvert	2452	Woodland Road	18 WOODLAND ROAD			Cross Road Culvert - 18 WOODLAND ROAD	1000	1000	14	Corrugated Steel	1971	30	0	50	$267	$267	$0	$1,624	0	5
1663	1663	Roads - Culvert	2401	Mapelwood Drive	41 MAPLEWOOD DR			Cross Road Culvert - 41 MAPLEWOOD DR	0	0	12	Corrugated Steel	1971	30	0	50	$256	$256	$0	$1,460	0	5
1667	1667	Roads - Culvert	2428	Maplewood Drive	30 MAPLEWOOD DR			Cross Road Culvert - 30 MAPLEWOOD DR	0	0	16	Corrugated Steel	1971	30	0	50	$286	$286	$0	$1,921	0	5
1671	1671	Roads - Culvert	2429	Maplewood Drive	29 MAPLEWOOD DR			Cross Road Culvert - 29 MAPLEWOOD DR	0	0	12	Corrugated Steel	1971	30	0	50	$253	$253	$0	$1,402	0	5
1693	1693	Roads - Culvert	2387	15th Sideroad	N/A			Cross Road Culvert - 15th SR East of 4th Line	1000	1000	8	Corrugated Steel	1972	30	0	49	$233	$233	$0	$922	0	5
1694	1694	Roads - Culvert	2387	Amaranth 4th Line	N/A			Cross Road Culvert - 15th SR East of 4th Line	1000	1000	12	Corrugated Steel	1972	30	0	49	$264	$264	$0	$1,380	0	5
1695	1695	Roads - Culvert	2387	Amaranth 4th Line	N/A			Cross Road Culvert - 4th Line north of 15th SR	1000	1000	13	Corrugated Steel	1972	30	0	49	$276	$276	$0	$1,556	0	5
1700	1700	Roads - Culvert		Amaranth 10th Line	214596 10TH LINE AMARANTH			Cross Road Culvert - 214596 10TH LINE AMARANTH	0	0	11	Corrugated Steel	1960	30	0	61	$185	$185	$0	$1,345	0	5
1704	1704	Roads - Culvert		15th Sideroad	345249 15 SIDEROAD AMARAN			Cross Road Culvert - 345249 15 SIDEROAD AMARANTH	4000	4000	12	Corrugated Steel	1960	30	0	61	$187	$187	$0	$1,382	0	5
1709	1709	Roads - Culvert		15th Sideroad	345249 15TH SIDE RD			Cross Road Culvert - 345249 15TH SIDE RD	0	0	12	Corrugated Steel	1960	30	0	61	$188	$188	$0	$1,409	0	5
1710	1710	Roads - Culvert	2385	Amaranth - East Luther-Grand Valley	383010 20TH SIDE RD			Cross Road Culvert - 383010 20TH SIDE RD	0	0	13	Corrugated Steel	2004	30	13	17	$1,364	$773	$591	$1,566	4	5
1713	1713	Roads - Culvert		Amaranth 2nd Line	345320 15 SIDEROAD AMARAN			Cross Road Culvert - 345320 15 SIDEROAD AMARANTH	1000	1000	13	Corrugated Steel	1960	30	0	61	$195	$195	$0	$1,544	0	5
1716	1716	Roads - Culvert		15th Sideroad	474260 COUNTY ROAD 11			Cross Road Culvert - 474260 COUNTY ROAD 11	0	0	8	Corrugated Steel	1960	30	0	61	$166	$166	$0	$961	0	5
1719	1719	Roads - Culvert	2304	Sylvanwood Road	5 SYLVANWOOD RD			Cross Road Culvert - 5 SYLVANWOOD RD	2000	2000	19	Corrugated Steel	1971	30	0	50	$309	$309	$0	$2,273	0	5
1720	1720	Roads - Culvert		Hughson Street	18 HUGHSON ST			Cross Road Culvert - 18 HUGHSON ST	0	0	15	Corrugated Steel	1979	30	0	42	$528	$528	$0	$1,797	0	5
1733	1733	Roads - Culvert		Amaranth 7th Line	284126 COUNTY ROAD 10			Cross Road Culvert - 284126 COUNTY ROAD 10	0	0	15	Corrugated Steel	1960	30	0	61	$210	$210	$0	$1,856	0	5
1735	1735	Roads - Culvert	2454	Amaranth - East Luther-Grand Valley	194243 AMARANTH-E LUTH TLI			Cross Road Culvert - 194243 AMARANTH-E LUTH TLINE	2000	4000	8	Pre-Cast Concrete	1993	80	52	28	$941	$329	$612	$5,000	7	
1743	1743	Roads - Culvert		Amaranth 6th Line	284270 COUNTY ROAD 10			Cross Road Culvert - 284270 COUNTY ROAD 10	1000	1000	10	Corrugated Steel	1960	30	0	61	$181	$181	$0	$1,257	0	5
1760	1760	Roads - Culvert		Amaranth 8th Line	294079 8TH LINE			Cross Road Culvert - 294079 8TH LINE	1000	1000	15	Corrugated Steel	1960	30	0	61	$208	$208	$0	$1,833	0	5
1770	1770	Roads - Culvert		Amaranth 10th Line	214155 10TH LINE			Cross Road Culvert - 214155 10TH LINE	1000	1000	8	Corrugated Steel	1960	30	0	61	$168	$168	$0	$988	0	5
1774	1774	Roads - Culvert	2461	Amaranth 6th Line	374028 6TH LINE			Cross Road Culvert - 374028 6TH LINE	0	0	21	Corrugated Steel	1991	30	0	30	$1,309	$1,309	$0	$2,467	0	5
1777	1777	Roads - Culvert	2461	Amaranth 6th Line	500 VICTORIA RD N			Cross Road Culvert - 500 VICTORIA RD N	1000	1000	18	Corrugated Steel	1991	30	0	30	$1,216	$1,216	$0	$2,117	0	5
1778	1778	Roads - Culvert		Amaranth 2nd Line	374027 6TH LINE			Cross Road Culvert - 374027 6TH LINE	0	0	13	Corrugated Steel	1960	30	0	61	$194	$194	$0	$1,533	0	5
1784	1784	Roads - Culvert		Amaranth 8th Line	294235 8TH LINE			Cross Road Culvert - 294235 8TH LINE	3000	3000	13	Corrugated Steel	1960	30	0	61	$197	$197	$0	$1,606	0	5
	1787	Roads - Culvert		15th Sideroad	254262 9TH LINE			Cross Road Culvert - 254262 9TH LINE	1000	1000	10	Corrugated Steel	1960	30	0	61	$180	$180	$0	$1,192	0	5
1788	1788	Roads - Culvert		Amaranth 10th Line	214314 10TH LINE AMARANTH			Cross Road Culvert - 214314 10TH LINE AMARANTH	1000	1000	11	Corrugated Steel	1960	30	0	61	$184	$184	$0	$1,334	0	5

Fixed Asset #	Map Link	Subtype	Street (Map Link ID)	Street Name	Address	From	To	Asset Name / Description	Height mm	Width mm	Length (m)	Material	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization	2021 Net Book Value	Replacement Cost	Condition Based On Useful Life	Condition from Town
	1791	Roads - Culvert		Amaranth 6th Line	374127 6TH LINE AMARANTH			Cross Road Culvert - 374127 6TH LINE AMARANTH	1000	1000	10	Other (See Notes)	1960	30	0	61	$180	$180	$0	$1,202	0	5
1806	1806	Roads - Culvert		25th Sideroad	195275 AMARANTH-E LUTH TLI			Cross Road Culvert - 195275 AMARANTH-E LUTH TLINE	1000	1000	11	Corrugated Steel	1960	30	0	61	$181	$181	$0	$1,272	0	5
1808	1808	Roads - Culvert		Amaranth 7th Line	335170 7TH LINE			Cross Road Culvert - 335170 7TH LINE	1000	1000	9	Corrugated Steel	1960	30	0	61	$171	$171	$0	$1,064	0	5
1809	1809	Roads - Culvert		Amaranth 9th Line	295266 8TH LINE			Cross Road Culvert - 295266 8TH LINE	0	0	12	Corrugated Steel	1960	30	0	61	$188	$188	$0	$1,404	0	5
1810	1810	Roads - Culvert		Amaranth 6th Line	375131 6TH LINE			Cross Road Culvert - 375131 6TH LINE	2000	2000	14	Corrugated Steel	1960	30	0	61	$203	$203	$0	$1,715	0	5
	1816	Roads - Culvert		Amaranth 8th Line	295182 8TH LINE			Cross Road Culvert - 295182 8TH LINE	0	0	5	Corrugated Steel	1960	30	0	61	$140	$140	$0	$571	0	5
	1821	Roads - Culvert		25th Sideroad	215274 10TH LINE			Cross Road Culvert - 25th SR West of 10th Line	0	0	11	Corrugated Steel	1960	30	0	61	$180	$180	$0	$1,345	0	5
1822	1822	Roads - Culvert		25th Sideroad	215274 10TH LINE			Cross Road Culvert - 215274 10TH LINE	0	0	12	Corrugated Steel	1960	30	0	61	$192	$192	$0	$1,490	0	5
1823	1823	Roads - Culvert		Amaranth 4th Line	435109 4TH LINE			Cross Road Culvert - 435109 4TH LINE	1000	1000	14	Corrugated Steel	1978	30	0	43	$465	$465	$0	$1,639	0	5
	1824	Roads - Culvert	2376	20th Sideroad	385362 20TH SIDE RD			Cross Road Culvert - 385362 20TH SIDE RD	0	0	17	Corrugated Steel	1960	30	0	61	$220	$220	$0	$2,085	0	5
	1830	Roads - Culvert	2376	20th Sideroad	385362 20TH SIDE RD			Cross Road Culvert - 385362 20TH SIDE RD	1000	1000	14	Corrugated Steel	1960	30	0	61	$200	$200	$0	$1,697	0	5
1831	1831	Roads - Culvert		Amaranth 10th Line	215274 10TH LINE			Cross Road Culvert - 215274 10TH LINE	0	0	11	Corrugated Steel	1960	30	0	61	$184	$184	$0	$1,325	0	5
1834	1834	Roads - Culvert		Amaranth 10th Line	215331 10TH LINE			Cross Road Culvert - 215331 10TH LINE	0	0	12	Corrugated Steel	1960	30	0	61	$192	$192	$0	$1,499	0	5
1838	1838	Roads - Culvert		Amaranth 6th Line	374203 6TH LINE			Cross Road Culvert - 374203 6TH LINE	1000	1000	10	Corrugated Steel	1960	30	0	61	$179	$179	$0	$1,222	0	5
1840	1840	Roads - Culvert	2351	Mono - Amaranth Townline 05	554020 MONO-AMARAN TLINE			Cross Road Culvert - 554020 MONO-AMARAN TLINE	1000	1000	12	Corrugated Steel	1993	30	2	28	$1,076	$1,004	$72	$1,484	1	5
1841	1841	Roads - Culvert		15th Sideroad	254257 9TH LINE			Cross Road Culvert - 254257 9TH LINE	2000	2000	15	Corrugated Steel	1960	30	0	61	$206	$206	$0	$1,790	0	5
1859	1859	Roads - Culvert		Amaranth - East Luther-Grand Valley	194457 AMARANTH-E LUTH TLI			Cross Road Culvert - 194457 AMARANTH-E LUTH TLINE	0	0	12	Corrugated Steel	1960	30	0	61	$192	$192	$0	$1,489	0	5
1862	1862	Roads - Culvert		Amaranth 8th Line	344030 15TH SIDE RD			Cross Road Culvert - 344030 15TH SIDE RD	1000	0	11	Corrugated Steel	1960	30	0	61	$183	$183	$0	$1,305	0	5
1863	1863	Roads - Culvert		Amaranth 8th Line	344030 15TH SIDE RD			Cross Road Culvert - 344030 15TH SIDE RD	1000	1000	11	Corrugated Steel	1960	30	0	61	$183	$183	$0	$1,295	0	5
1864	1864	Roads - Culvert		Amaranth 8th Line	294344 8TH LINE			Cross Road Culvert - 294344 8TH LINE	1000	1000	12	Corrugated Steel	1960	30	0	61	$190	$190	$0	$1,441	0	5
1865	1865	Roads - Culvert		Amaranth 10th Line	<Null>			Cross Road Culvert - 10th Line north of 15th SR	1000	1000	16	Corrugated Steel	1960	30	0	61	$212	$212	$0	$1,900	0	5
1874	1874	Roads - Culvert		Amaranth 2nd Line	514107 2ND LINE			Cross Road Culvert - 514107 2ND LINE	1000	1000	11	Corrugated Steel	1960	30	0	61	$185	$185	$0	$1,337	0	5
1883	1883	Roads - Culvert		15th Sideroad	334257 7TH LINE			Cross Road Culvert - 334257 7TH LINE	0	0	10	Corrugated Steel	1960	30	0	61	$178	$178	$0	$1,198	0	5
1887	1887	Roads - Culvert		15th Sideroad	334257 7TH LINE			Cross Road Culvert - 334257 7TH LINE	0	0	12	Corrugated Steel	1960	30	0	61	$189	$189	$0	$1,433	0	5
1898	1898	Roads - Culvert		Amaranth - East Luther-Grand Valley	214510 10TH LINE			Cross Road Culvert - 214510 10TH LINE	0	0	11	Corrugated Steel	1960	30	0	61	$186	$186	$0	$1,372	0	5
1905	1905	Roads - Culvert		Amaranth 6th Line	344381 15TH SIDE RD			Cross Road Culvert - 344381 15TH SIDE RD	0	0	10	Corrugated Steel	1960	30	0	61	$179	$179	$0	$1,222	0	5
1909	1909	Roads - Culvert	2351	Mono - Amaranth Townline 05	554090 MONO-AMARAN TLINE			Cross Road Culvert - 554090 MONO-AMARAN TLINE	1000	1000	9	Corrugated Steel	1993	30	2	28	$952	$888	$64	$1,024	1	5
1910	1910	Roads - Culvert		Amaranth 4th Line	43420 4TH LINE			Cross Road Culvert - 43420 4TH LINE	4000	4000	13	Corrugated Steel	1972	30	0	49	$276	$276	$0	$1,552	0	5
1911	1911	Roads - Culvert		Amaranth 4th Line	43420 4TH LINE			Cross Road Culvert - 43420 4TH LINE	4000	4000	13	Corrugated Steel	1972	30	0	49	$277	$277	$0	$1,571	0	5
1915	1915	Roads - Culvert		Amaranth 7th Line	334401 7TH LINE AMARANTH			Cross Road Culvert - 334401 7TH LINE AMARANTH	1000	1000	10	Corrugated Steel	1960	30	0	61	$181	$181	$0	$1,255	0	5
1916	1916	Roads - Culvert		Amaranth 8th Line	294365 8TH LINE AMARANTH			Cross Road Culvert - 294365 8TH LINE AMARANTH	0	0	12	Corrugated Steel	1960	30	0	61	$187	$187	$0	$1,398	0	5
1919	1919	Roads - Culvert		15th Sideroad	344441 15TH SIDE RD			Cross Road Culvert - 344441 15TH SIDE RD	0	0	10	Corrugated Steel	1960	30	0	61	$180	$180	$0	$1,239	0	5
	1920	Roads - Culvert		Amaranth 2nd Line	514148 2ND LINE			Cross Road Culvert - 514148 2ND LINE	1000	1000	10	Corrugated Steel	1960	30	0	61	$175	$175	$0	$1,235	0	5
1922	1922	Roads - Culvert		15th Sideroad	394276 COUNTY ROAD 12			Cross Road Culvert - 394276 COUNTY ROAD 12	0	0	16	Corrugated Steel	1960	30	0	61	$211	$211	$0	$1,887	0	5
1931	1931	Roads - Culvert		Amaranth 4th Line	N/A			Cross Road Culvert - 4th Line south of 15th SR	0	0	8	Corrugated Steel	1972	30	0	49	$237	$237	$0	$985	0	5
	1932	Roads - Culvert		Amaranth 10th Line	214510 10TH LINE			Cross Road Culvert - 214510 10TH LINE	0	0	9	Corrugated Steel	1960	30	0	61	$170	$170	$0	$1,099	0	5
1934	1934	Roads - Culvert		15th Sideroad	345320 15TH SIDE RD			Cross Road Culvert - 345320 15TH SIDE RD	0	0	10	Corrugated Steel	1960	30	0	61	$176	$176	$0	$1,166	0	5
1937	1937	Roads - Culvert	2369	20th Sideroad	383010 20TH SIDE RD			Cross Road Culvert - 383010 20TH SIDE RD	2000	2000	15	Corrugated Steel	1969	30	0	52	$263	$263	$0	$1,825	0	5
	1943	Roads - Culvert		15th Sideroad	345320 15 SIDEROAD AMARAN			Cross Road Culvert - 345320 15 SIDEROAD AMARANTH	2000	2000	15	Corrugated Steel	1960	30	0	61	$210	$210	$0	$1,815	0	5
1949	1949	Roads - Culvert		Amaranth 6th Line	384292 20TH SIDE RD			Cross Road Culvert - 384292 20TH SIDE RD	0	0	9	Unknown / To Be Det	1960	30	0	61	$173	$173	$0	$1,105	0	5
1953	1953	Roads - Culvert	2372	20th Sideroad	384178 20TH SIDE RD			Cross Road Culvert - 384178 20TH SIDE RD	1000	1000	17	Corrugated Steel	1969	30	0	52	$276	$276	$0	$2,044	0	5
1958	1958	Roads - Culvert	2372	20th Sideroad	384246 20TH SIDE RD			Cross Road Culvert - 384246 20TH SIDE RD	1000	1000	15	Corrugated Steel	1969	30	0	52	$265	$265	$0	$1,857	0	5
1964	1964	Roads - Culvert		Amaranth 6th Line	384318 20TH SIDE RD			Cross Road Culvert - 384318 20TH SIDE RD	0	0	8	Corrugated Steel	1960	30	0	61	$169	$169	$0	$1,016	0	5
1967	1967	Roads - Culvert	2373	20th Sideroad	384318 20TH SIDE RD			Cross Road Culvert - 384318 20TH SIDE RD	0	0	7	Corrugated Steel	1969	30	0	52	$201	$201	$0	$800	0	5
1970	1970	Roads - Culvert	2386	Amaranth 4th Line	434519 4TH LINE			Cross Road Culvert - 434519 4TH LINE	0	0	12	Corrugated Steel	1972	30	0	49	$266	$266	$0	$1,404	0	5
1975	1975	Roads - Culvert	2373	20th Sideroad	384406 20TH SIDE RD			Cross Road Culvert - 384406 20TH SIDE RD	0	0	18	Corrugated Steel	1969	30	0	52	$281	$281	$0	$2,122	0	5
1976	1976	Roads - Culvert		Amaranth 2nd Line	514466 2ND LINE			Cross Road Culvert - 514466 2ND LINE	1000	1000	11	Corrugated Steel	1960	30	0	61	$186	$186	$0	$1,370	0	5
	1979	Roads - Culvert		Amaranth 6th Line	384323 20TH SIDE RD			Cross Road Culvert - 384323 20TH SIDE RD	1000	1000	3	Pre-Cast Concrete	1960	80	19	61	$75	$57	$18	$5,000	2	5
1980	1980	Roads - Culvert		Amaranth 2nd Line	514466 2ND LINE			Cross Road Culvert - 514466 2ND LINE	0	0	9	Corrugated Steel	1960	30	0	61	$174	$174	$0	$1,107	0	5
1984	1984	Roads - Culvert		Amaranth 7th Line	335085 7TH LINE			Cross Road Culvert - 335085 7TH LINE	2000	2000	16	Corrugated Steel	1960	30	0	61	$212	$212	$0	$1,908	0	5
1985	1985	Roads - Culvert	2477	Mono - Amaranth Townline 09	554456 MONO-AMARAN TLINE			Cross Road Culvert - 554456 MONO-AMARAN TLINE	0	0	19	Corrugated Steel	1993	30	2	28	$1,307	$1,220	$87	$2,340	1	5
1990	1990	Roads - Culvert	2374	20th Sideroad	394595 COUNTY ROAD 12			Cross Road Culvert - 394595 COUNTY ROAD 12	0	0	18	Corrugated Steel	1963	30	0	58	$233	$233	$0	$2,168	0	5
1993	1993	Roads - Culvert		Amaranth - East Luther-Grand Valley Townline				Cross Road Culvert - Amaranth / East Luther TL south of	2000	2000	18	Corrugated Steel	1960	30	0	61	$225	$225	$0	$2,171	0	5
1996	1996	Roads - Culvert		Amaranth 8th Line	295089 8TH LINE			Cross Road Culvert - 295089 8TH LINE	1000	1000	16	Corrugated Steel	1960	30	0	61	$214	$214	$0	$1,952	0	5
2003	2003	Roads - Culvert	2386	Amaranth 4th Line	385106 20TH SIDE RD			Cross Road Culvert - 385106 20TH SIDE RD	0	0	14	Corrugated Steel	1972	30	0	49	$286	$286	$0	$1,707	0	5
2005	2005	Roads - Culvert	2374	20th Sideroad	385081 20TH SIDE RD			Cross Road Culvert - 385081 20TH SIDE RD	0	0	17	Corrugated Steel	1963	30	0	58	$225	$225	$0	$2,003	0	5
2009	2009	Roads - Culvert		Amaranth 10th Line	215205 10TH LINE			Cross Road Culvert - 215205 10TH LINE	1000	1000	11	Corrugated Steel	1960	30	0	61	$182	$182	$0	$1,281	0	5
2010	2010	Roads - Culvert	2374	20th Sideroad	385106 20TH SIDE RD			Cross Road Culvert - 385106 20TH SIDE RD	0	0	17	Corrugated Steel	1963	30	0	58	$229	$229	$0	$2,091	0	5
2016	2016	Roads - Culvert		Amaranth 4th Line	385106 20TH SIDE RD			Cross Road Culvert - 385106 20TH SIDE RD	0	0	16	Corrugated Steel	1978	30	0	43	$501	$501	$0	$1,955	0	5
2017	2017	Roads - Culvert	2386	20th Sideroad	385106 20TH SIDE RD			Cross Road Culvert - 385106 20TH SIDE RD	0	0	20	Corrugated Steel	1972	30	0	49	$334	$334	$0	$2,418	0	5
2020	2020	Roads - Culvert		Amaranth 2nd Line	514505 2ND LINE			Cross Road Culvert - 514505 2ND LINE	1000	1000	11	Corrugated Steel	1960	30	0	61	$182	$182	$0	$1,286	0	5
2023	2023	Roads - Culvert		Amaranth 7th Line	335244 7TH LINE			Cross Road Culvert - 335244 7TH LINE	2000	2000	14	Corrugated Steel	1960	30	0	61	$203	$203	$0	$1,723	0	5
	2025	Roads - Culvert	2377	20th Sideroad	554568 MONO-AMARAN TLINE			Cross Road Culvert - 554568 MONO-AMARAN TLINE	0	0	13	Corrugated Steel	1960	30	0	61	$200	$200	$0	$1,551	0	5
	2026	Roads - Culvert		25th Sideroad	255344 9TH LINE			Cross Road Culvert - 255344 9TH LINE	1000	1000	12	Corrugated Steel	1960	30	0	61	$190	$190	$0	$1,384	0	5
2032	2032	Roads - Culvert		Amaranth 9th Line	255251 9TH LINE			Cross Road Culvert - 255251 9TH LINE	1000	1000	9	Corrugated Steel	1960	30	0	61	$170	$170	$0	$1,039	0	5
2034	2034	Roads - Culvert	2377	20th Sideroad	554568 MONO-AMARAN TLINE			Cross Road Culvert - 554568 MONO-AMARAN TLINE	3000	3000	15	Corrugated Steel	1989	30	0	32	$1,049	$1,049	$0	$1,842	0	5

Fixed Asset #	Map Link	Subtype	Street (Map Link ID)	Street Name	Address	From	To	Asset Name / Description	Height mm	Width mm	Length (m)	Material	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization	2021 Net Book Value	Replacement Cost	Condition Based On Useful Life	Condition from Town
2035	2035	Roads - Culvert		25th Sideroad	255344 9TH LINE			Cross Road Culvert - 255344 9TH LINE	2000	2000	13	Corrugated Steel	1976	30	0	45	$394	$394	$0	$1,595	0	5
2036	2036	Roads - Culvert		20th Sideroad	554568 MONO-AMARAN TLINE			Cross Road Culvert - 554568 MONO-AMARAN TLINE	2000	2000	11	Pre-Cast Concrete	1960	80	19	61	$186	$142	$44	$5,000	2	5
2038	2038	Roads - Culvert		Mono - Amaranth Townline	385477 20TH SIDE RD			Cross Road Culvert - 385477 20TH SIDE RD	1000	1000	10	Corrugated Steel	1960	30	0	61	$178	$178	$0	$1,203	0	5
2039	2039	Roads - Culvert		Amaranth 10th Line	215346 10TH LINE			Cross Road Culvert - 215346 10TH LINE	2000	2000	15	Corrugated Steel	1960	30	0	61	$209	$209	$0	$1,840	0	5
2040	2040	Roads - Culvert		Amaranth 10th Line	215331 10TH LINE			Cross Road Culvert - 215331 10TH LINE	2000	2000	15	Corrugated Steel	1960	30	0	61	$207	$207	$0	$1,801	0	5
	2050	Roads - Culvert		Amaranth 2nd Line	515086 2ND LINE			Cross Road Culvert - 515086 2ND LINE	0	0	9	Corrugated Steel	1960	30	0	61	$170	$170	$0	$1,081	0	5
2060	2060	Roads - Culvert		Amaranth 7th Line	424108 25TH SIDE RD			Cross Road Culvert - 424108 25TH SIDE RD	0	0	17	Corrugated Steel	1960	30	0	61	$217	$217	$0	$2,015	0	5
2061	2061	Roads - Culvert		Amaranth 8th Line	295305 8TH LINE			Cross Road Culvert - 295305 8TH LINE	0	0	10	Corrugated Steel	1960	30	0	61	$180	$180	$0	$1,238	0	5
2062	2062	Roads - Culvert		Amaranth 2nd Line	515091 2ND LINE			Cross Road Culvert - 515091 2ND LINE	0	0	11	Corrugated Steel	1960	30	0	61	$184	$184	$0	$1,327	0	5
2073	2073	Roads - Culvert		25th Sideroad	424108 25TH SIDE RD			Cross Road Culvert - 424108 25TH SIDE RD	0	0	10	Corrugated Steel	1960	30	0	61	$181	$181	$0	$1,253	0	5
2078	2078	Roads - Culvert		Mono - Amaranth Townline	555074 MONO-AMARAN TLINE			Cross Road Culvert - 555074 MONO-AMARAN TLINE	1000	1000	9	Corrugated Steel	1960	30	0	61	$174	$174	$0	$1,121	0	5
2079	2079	Roads - Culvert	2330	Amaranth 7th Line	424129 25TH SIDE RD			Cross Road Culvert - 424129 25TH SIDE RD	0	0	12	Corrugated Steel	1960	30	0	61	$187	$187	$0	$1,388	0	5
2082	2082	Roads - Culvert		25th Sideroad	424177 25TH SIDE RD			Cross Road Culvert - 424177 25TH SIDE RD	2000	2000	13	Corrugated Steel	1960	30	0	61	$197	$197	$0	$1,597	0	5
2096	2096	Roads - Culvert	2330	Amaranth 7th Line	424085 25 SIDEROAD AMARAN			Cross Road Culvert - 424085 25 SIDEROAD AMARANTH	2000	2000	18	Corrugated Steel	1960	30	0	61	$222	$222	$0	$2,111	0	5
2103	2103	Roads - Culvert		Amaranth 2nd Line	515163 2ND LINE			Cross Road Culvert - 515163 2ND LINE	3000	3000	12	Corrugated Steel	1971	30	0	50	$255	$255	$0	$1,430	0	5
	2107	Roads - Culvert		Mono - Amaranth Townline	555118 MONO-AMARANTH TWN			Cross Road Culvert - 555118 MONO-AMARANTH TWNLN	3000	2000	6	Pre-Cast Concrete	1960	80	19	61	$250	$191	$59	$5,000	2	5
2112	2112	Roads - Culvert		Mono - Amaranth Townline	555132 MONO-AMARAN TLINE			Cross Road Culvert - 555132 MONO-AMARAN TLINE	0	0	12	Corrugated Steel	1960	30	0	61	$192	$192	$0	$1,485	0	5
2126	2126	Roads - Culvert		Amaranth 2nd Line	515163 2ND LINE			Cross Road Culvert - 515163 2ND LINE	1000	1000	14	Corrugated Steel	1971	30	0	50	$273	$273	$0	$1,716	0	5
2132	2132	Roads - Culvert		Amaranth 4th Line	435265 4TH LINE			Cross Road Culvert - 435265 4TH LINE	0	0	11	Corrugated Steel	1978	30	0	43	$429	$429	$0	$1,312	0	5
2141	2141	Roads - Culvert		Amaranth 2nd Line	515239 2ND LINE			Cross Road Culvert - 515239 2ND LINE	2000	2000	20	Corrugated Steel	1971	30	0	50	$314	$314	$0	$2,351	0	5
	2147	Roads - Culvert		25th Sideroad	475326 COUNTY ROAD 11			Cross Road Culvert - 475326 COUNTY ROAD 11	0	0	12	Corrugated Steel	1960	30	0	61	$190	$190	$0	$1,407	0	5
2154	2154	Roads - Culvert	2330	Amaranth 7th Line	424085 25 SIDEROAD AMARAN			Cross Road Culvert - 424085 25 SIDEROAD AMARANTH	1000	1000	14	Corrugated Steel	1960	30	0	61	$204	$204	$0	$1,738	0	5
2160	2160	Roads - Culvert		Amaranth 10th Line	215528 10TH LINE			Cross Road Culvert - 215528 10TH LINE	2000	3000	9	Pre-Cast Concrete	1960	80	19	61	$500	$381	$119	$5,000	2	5
	2168	Roads - Culvert		25th Sideroad	475294 COUNTY ROAD 11			Cross Road Culvert - 475294 COUNTY ROAD 11	0	0	13	Corrugated Steel	1960	30	0	61	$200	$200	$0	$1,547	0	5
2169	2169	Roads - Culvert		Amaranth - East Luther-Grand Valley	195587 AMARANTH-E LUTH TLI			Cross Road Culvert - 195587 AMARANTH-E LUTH TLINE	1000	1000	13	Corrugated Steel	1960	30	0	61	$198	$198	$0	$1,617	0	5
2185	2185	Roads - Culvert	2358	30th Sideroad	215596 10TH LINE			Cross Road Culvert - 215596 10TH LINE	2000	2000	15	Corrugated Steel	1960	30	0	61	$209	$209	$0	$1,840	0	5
2191	2191	Roads - Culvert		25th Sideroad	515273 2ND LINE			Cross Road Culvert - 515273 2ND LINE	0	0	11	Corrugated Steel	1971	30	0	50	$247	$247	$0	$1,311	0	5
2192	2192	Roads - Culvert		Amaranth 6th Line	375399 6TH LINE			Cross Road Culvert - 375399 6TH LINE	1000	1000	12	Corrugated Steel	1960	30	0	61	$189	$189	$0	$1,429	0	5
2195	2195	Roads - Culvert		Amaranth 4th Line	435416 4TH LINE			Cross Road Culvert - 435416 4TH LINE	0	0	14	Corrugated Steel	1978	30	0	43	$473	$473	$0	$1,708	0	5
2198	2198	Roads - Culvert	2359	30th Sideroad	483184 30TH SIDE RD			Cross Road Culvert - 483184 30TH SIDE RD	1000	1000	9	Corrugated Steel	1960	30	0	61	$170	$170	$0	$1,028	0	5
2207	2207	Roads - Culvert	2330	Amaranth 7th Line	335524 7TH LINE AMARANTH			Cross Road Culvert - 335524 7TH LINE AMARANTH	0	0	12	Corrugated Steel	1960	30	0	61	$187	$187	$0	$1,385	0	5
	2213	Roads - Culvert		25th Sideroad	425497 25TH SIDEROAD			Cross Road Culvert - 425497 25TH SIDEROAD	1000	1000	11	Corrugated Steel	1960	30	0	61	$185	$185	$0	$1,344	0	6
2214	2214	Roads - Culvert	2330	Amaranth 7th Line	335524 7TH LINE AMARANTH			Cross Road Culvert - 335524 7TH LINE AMARANTH	1000	1000	10	Corrugated Steel	1960	30	0	61	$175	$175	$0	$1,143	0	5
2221	2221	Roads - Culvert		Amaranth 9th Line	255600 9TH LINE			Cross Road Culvert - 255600 9TH LINE	0	0	11	Corrugated Steel	1960	30	0	61	$185	$185	$0	$1,341	0	5
2222	2222	Roads - Culvert		Amaranth 9th Line	483308 30TH SIDE RD			Cross Road Culvert - 483308 30TH SIDE RD	0	0	13	Corrugated Steel	1960	30	0	61	$195	$195	$0	$1,562	0	5
2230	2230	Roads - Culvert		Amaranth - East Luther-Grand Valley	503056 HIGHWAY 89			Cross Road Culvert - 503056 HIGHWAY 89	1000	1000	12	Corrugated Steel	1960	30	0	61	$187	$187	$0	$1,382	0	5
2234	2234	Roads - Culvert		Amaranth 4th Line	435464 4TH LINE			Cross Road Culvert - 435464 4TH LINE	0	0	17	Corrugated Steel	1978	30	0	43	$508	$508	$0	$2,016	0	5
2235	2235	Roads - Culvert		Mono - Amaranth Townline	555318 MONO-AMARAN TLINE			Cross Road Culvert - 555318 MONO-AMARAN TLINE	0	0	13	Corrugated Steel	1960	30	0	61	$195	$195	$0	$1,553	0	5
2239	2239	Roads - Culvert		30th Sideroad	295680 8TH LINE			Cross Road Culvert - 295680 8TH LINE	1000	1000	10	Corrugated Steel	1960	30	0	61	$177	$177	$0	$1,177	0	5
2240	2240	Roads - Culvert		Amaranth 8th Line	295680 8TH LINE			Cross Road Culvert - 295680 8TH LINE	1000	1000	8	Corrugated Steel	1960	30	0	61	$168	$168	$0	$1,001	0	5
2242	2242	Roads - Culvert	2356	30th Sideroad	<Null>			Cross Road Culvert - 30th SR east of 8th Line	2000	2000	12	Corrugated Steel	1960	30	0	61	$191	$191	$0	$1,461	0	5
2245	2245	Roads - Culvert		Amaranth 9th Line	255666 9TH LINE			Cross Road Culvert - 255666 9TH LINE	2000	3000	9	Pre-Cast Concrete	1960	80	19	61	$175	$133	$42	$5,000	2	5
2246	2246	Roads - Culvert		Amaranth 6th Line	375581 6TH LINE			Cross Road Culvert - 375581 6TH LINE	0	0	13	Corrugated Steel	1960	30	0	61	$197	$197	$0	$1,590	0	5
	2248	Roads - Culvert		Amaranth 2nd Line	515367 2ND LINE			Cross Road Culvert - 515367 2ND LINE	0	0	10	Corrugated Steel	1960	30	0	61	$175	$175	$0	$1,245	0	5
2249	2249	Roads - Culvert	2330	Amaranth 7th Line	335576 7TH LINE			Cross Road Culvert - 335576 7TH LINE	0	0	11	Other (See Notes)	1960	30	0	61	$185	$185	$0	$1,349	0	5
2253	2253	Roads - Culvert		Amaranth 10th Line	503270 HIGHWAY 89			Cross Road Culvert - 503270 HIGHWAY 89	1000	1000	15	Corrugated Steel	1960	30	0	61	$204	$204	$0	$1,744	0	5
2257	2257	Roads - Culvert		Amaranth 7th Line	335576 7TH LINE			Cross Road Culvert - 335576 7TH LINE	0	0	8	Corrugated Steel	1960	30	0	61	$167	$167	$0	$967	0	5
2261	2261	Roads - Culvert		Amaranth 6th Line	375591 6TH LINE			Cross Road Culvert - 375591 6TH LINE	2000	2000	14	Corrugated Steel	1960	30	0	61	$200	$200	$0	$1,652	0	5
2262	2262	Roads - Culvert		Amaranth 4th Line	435471 4TH LINE			Cross Road Culvert - 435471 4TH LINE	1000	1000	18	Corrugated Steel	1978	30	0	43	$524	$524	$0	$2,163	0	5
2263	2263	Roads - Culvert		Amaranth 8th Line	295649 8TH LINE			Cross Road Culvert - 295649 8TH LINE	0	0	12	Corrugated Steel	1960	30	0	61	$190	$190	$0	$1,442	0	5
2267	2267	Roads - Culvert		30th Sideroad	484240 30TH SIDE RD			Cross Road Culvert - 484240 30TH SIDE RD	2000	2000	12	Corrugated Steel	1960	30	0	61	$187	$187	$0	$1,385	0	5
2268	2268	Roads - Culvert		Amaranth 7th Line	335649 7TH LINE			Cross Road Culvert - 335649 7TH LINE	0	0	15	Corrugated Steel	1960	30	0	61	$208	$208	$0	$1,825	0	5
2269	2269	Roads - Culvert		Amaranth 9th Line	503360 HWY 89			Cross Road Culvert - 503360 HWY 89	1000	0	12	Corrugated Steel	1960	30	0	61	$187	$187	$0	$1,397	0	5
2271	2271	Roads - Culvert		Amaranth 4th Line	435539 4TH LINE			Cross Road Culvert - 435539 4TH LINE	2000	2000	16	Corrugated Steel	1978	30	0	43	$501	$501	$0	$1,960	0	5
2273	2273	Roads - Culvert		30th Sideroad	484240 30TH SIDE RD			Cross Road Culvert - 484240 30TH SIDE RD	2000	2000	16	Corrugated Steel	1960	30	0	61	$213	$213	$0	$1,939	0	5
2274	2274	Roads - Culvert		Amaranth 6th Line	484229 30TH SIDE RD			Cross Road Culvert - 484229 30TH SIDE RD	0	0	7	Corrugated Steel	1960	30	0	61	$159	$159	$0	$814	0	5
2275	2275	Roads - Culvert		30th Sideroad	484358 30TH SIDE RD			Cross Road Culvert - 484358 30TH SIDE RD	1000	1000	14	Corrugated Steel	1960	30	0	61	$201	$201	$0	$1,671	0	5
2284	2284	Roads - Culvert		Amaranth 8th Line	503360 HWY 89			Cross Road Culvert - 503360 HWY 89	1000	1000	13	Corrugated Steel	1960	30	0	61	$193	$193	$0	$1,520	0	5
2288	2288	Roads - Culvert		Amaranth 2nd Line	515509 2ND LINE			Cross Road Culvert - 515509 2ND LINE	0	0	13	Corrugated Steel	1971	30	0	50	$259	$259	$0	$1,504	0	5
3214	3214	Roads - Culvert		Mono - Amaranth Townline	555118 MONO-AMARANTH TLIN			River Culvert - Cross Road Culvert - 555118 MONO-AMARANTH TLINE					2009	30	18	12	$1,358	$543	$815	$1,500	6	
3216	3216	Roads - Culvert	2300	Mono - Amaranth Townline	<Null>			Cross Road Culvert - <Null>	0	0	16	Corrugated Steel	2009	30	18	12	$3,187	$1,275	$1,912	$1,500	6	
3287	3287	Roads - Culvert		Amaranth 4th Line	434026 4TH LINE			Cross Road Culvert - 434026 4TH LINE	1000	1000	14	Corrugated Steel	2010	30	19	11	$4,466	$1,638	$2,828	$4,500	6	
3288	3288	Roads - Culvert		Amaranth 4th Line	434026 4TH LINE			Cross Road Culvert - 434026 4TH LINE	1000	1000	11	Corrugated Steel	2010	30	19	11	$4,466	$1,638	$2,828	$4,500	6	
3289	3289	Roads - Culvert		30th Sideroad	485182 30TH SIDEROAD			Cross Road Culvert - 485182 30TH SIDEROAD	0	0	7	Corrugated Steel	2010	30	19	11	$1,323	$485	$838	$1,350	6	
3290	3290	Roads - Culvert		25th Sideroad	425497 25TH SIDE RD			Cross Road Culvert - 425497 25TH SIDE RD	1000	1000	11	Corrugated Steel	2010	30	19	11	$1,323	$485	$838	$1,350	6	
3508	3508	Roads - Culvert	3180	8TH LINE	383401 20TH SIDE RD			Cross Road Culvert - 383401 20TH SIDE RD	0	0	9	Corrugated Steel	2011	30	20	10	$1,374	$458	$916	$1,500	7	

Fixed Asset #	Map Link	Subtype	Street (Map Link ID)	Street Name	Address	From	To	Asset Name / Description	Height mm	Width mm	Length (m)	Material	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization	2021 Net Book Value	Replacement Cost	Condition Based On Useful Life	Condition from Town
3509	3509	Roads - Culvert		10TH LINE	214152 10TH LINE			Cross Road Culvert - 214152 10TH LINE			14	Corrugated Steel	2011	30	20	10	$1,374	$458	$916	$1,500	7	
3552	2285	Roads - Culvert						Culvert 30th SR - just west of County Rd 12 - for municipal drain				Corrugated Steel	2012	30	21	9	$759	$228	$531	$1,000	7	
3553	1889	Roads - Culvert						Culvert 7th Line - just north of 15th SR				Corrugated Steel	2012	30	21	9	$759	$228	$531	$1,000	7	
3554	1731	Roads - Culvert						Culvert 8th Line - just North of County Rd 11				Corrugated Steel	2012	30	21	9	$759	$228	$531	$1,000	7	
3555	1870	Roads - Culvert						Culvert 15th SR - just east of 8th Line				Corrugated Steel	2012	30	21	9	$759	$228	$531	$1,000	7	
3556	1600	Roads - Culvert						Culvert 30th SR - just west of County Rd 12				Corrugated Steel	2012	30	21	9	$758	$228	$530	$1,000	7	
4031	1360	Roads - Culvert						Culvert - 9th line - south of County Rd 10 - 600mm x 12 m				Corrugated Steel	2013	30	22	8	$653	$174	$479	$1,000	7	
4032	1118	Roads - Culvert						Culvert - 15th SR - between 9th and 10th Line - 500mm x 12m				Corrugated Steel	2013	30	22	8	$549	$146	$403	$750	7	
4033	2236	Roads - Culvert						Culvert - 10th Line - north of 30th SR - 900mm x 16m				Corrugated Steel	2013	30	22	8	$1,270	$339	$931	$1,500	7	
4034	1749	Roads - Culvert						Culvert - 7th Line - just north of County Rd. 10 - 450mm x 12m				Corrugated Steel	2013	30	22	8	$707	$189	$518	$1,000	7	
4121	2199	Roads - Culvert						Open Ditch Culvert - 2nd Line - Lot 28				Corrugated Steel	2014	30	23	7	$3,528	$823	$2,705	$3,528	8	
4122	2027	Roads - Culvert						Open Ditch Culvert - 4th Line Lot 24				Corrugated Steel	2014	30	23	7	$4,198	$980	$3,218	$4,198	8	
4123	2046	Roads - Culvert						Open Ditch Culvert - 6th Line Lot 24				Corrugated Steel	2014	30	23	7	$2,776	$648	$2,128	$2,776	8	
4124	1110	Roads - Culvert						Open Ditch Culvert - 6th Line Lot 13				Corrugated Steel	2014	30	23	7	$3,709	$866	$2,843	$3,709	8	
4125	1058	Roads - Culvert						Open Ditch Culvert - Stn Str west of 9th Line Con 9 East Half				Corrugated Steel	2014	30	23	7	$4,410	$1,029	$3,381	$4,410	8	
4126	4386	Roads - Culvert		7TH LINE	333395 7TH LINE			Municipal Drain Box Culvert - 7th Line Lot 8				Corrugated Steel	2014	30	23	7	$12,290	$2,868	$9,422	$12,290	8	
4168	1125	Roads - Culvert						Open Ditch Culvert - 15 Sideroad East of 10th Line Con 9 West Half				Corrugated Steel	2014	30	23	7	$2,729	$637	$2,092	$2,729	8	
4254	1301	Roads - Culvert						Cross Road Culvert - 9th Line at Lot 13				Corrugated Steel	2015	30	24	6	$687	$137	$550	$687	8	
4255	1533	Roads - Culvert						Cross Road Culvert - 9th Line at Lot 20				Corrugated Steel	2015	30	24	6	$901	$180	$721	$901	8	
4256	2155	Roads - Culvert						Cross Road Culvert - 25th Sideroad between County Road 12 and 6th Line				Corrugated Steel	2015	30	24	6	$741	$148	$593	$741	8	
	4380	Roads - Culvert		5TH SIDEROAD	243117 5TH SIDE RD			Cross Road Culvert - 243117 5TH SIDE RD				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4381	Roads - Culvert		9TH LINE	253031 9TH LINE			Cross Road Culvert - 253031 9TH LINE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4382	Roads - Culvert		7TH LINE	333070 7TH LINE			Cross Road Culvert - 333070 7TH LINE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4383	Roads - Culvert		8TH LINE	293415 8TH LINE			Cross Road Culvert - 293415 8TH LINE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4384	Roads - Culvert		8TH LINE	24403 5TH SIDE RD			Cross Road Culvert - 24403 5TH SIDE RD				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4385	Roads - Culvert		7TH LINE	333329 7TH LINE			Cross Road Culvert - 333329 7TH LINE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4387	Roads - Culvert		2ND LINE	513603 2ND LINE			Cross Road Culvert - 513603 2ND LINE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4388	Roads - Culvert		MONO-AMARANTH TOWNLINE	34 MCKIBBON AVE			Cross Road Culvert - 34 MCKIBBON AVE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4389	Roads - Culvert		AMARANTH - EAST LUTHER TOWN	194127 AMARANTH-E LUTH TLI			Cross Road Culvert - 194127 AMARANTH-E LUTH TLINE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4390	Roads - Culvert	3229	7TH LINE	334149 7TH LINE AMARANTH			Cross Road Culvert - 334149 7TH LINE AMARANTH				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4391	Roads - Culvert	3517	15TH SIDEROAD	345535 15TH SIDE RD			Cross Road Culvert - 345535 15TH SIDE RD				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4392	Roads - Culvert	2369	20TH SIDEROAD	214596 10TH LINE			Cross Road Culvert - 214596 10TH LINE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4393	Roads - Culvert	2373	20TH SIDEROAD	384406 20TH SIDE RD			Cross Road Culvert - 384406 20TH SIDE RD				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4394	Roads - Culvert	3252	2ND LINE	514505 2ND LINE			Cross Road Culvert - 514505 2ND LINE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4395	Roads - Culvert	3252	2ND LINE	514505 2ND LINE			Cross Road Culvert - 514505 2ND LINE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4396	Roads - Culvert	3410	25TH SIDEROAD	215331 10TH LINE			Cross Road Culvert - 215331 10TH LINE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4397	Roads - Culvert	3396	10TH LINE	215154 10TH LINE			Cross Road Culvert - 215154 10TH LINE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4398	Roads - Culvert	3396	10TH LINE	215112 10TH LINE			Cross Road Culvert - 215112 10TH LINE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4399	Roads - Culvert	3177	9TH LINE	255344 9TH LINE			Cross Road Culvert - 255344 9TH LINE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4400	Roads - Culvert	3199	25TH SIDEROAD	555318 MONO-AMARAN TLINE			Cross Road Culvert - 555318 MONO-AMARAN TLINE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4401	Roads - Culvert	3392	AMARANTH - EAST LUTHER TOWN	195409 AMARANTH-E. TLINE			Cross Road Culvert - Cement Box Culvert - 195409 AMARANTH-E. TLINE				Pre-Cast Concrete	1960	80	19	61	$750	$572	$178	$5,000	2	5
	4402	Roads - Culvert	3392	AMARANTH - EAST LUTHER TOWN	195527 AMARANTH-E TLINE			Cross Road Culvert - Cement Box Culvert - 195527 AMARANTH-E TLINE				Pre-Cast Concrete	1960	80	19	61	$750	$572	$178	$5,000	2	5
	4403	Roads - Culvert	3395	10TH LINE	215331 10TH LINE			Cross Road Culvert - 215331 10TH LINE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4404	Roads - Culvert	3177	9TH LINE	255436 9TH LINE			Cross Road Culvert - 255436 9TH LINE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4405	Roads - Culvert	2357	30TH SIDEROAD	483308 30TH SIDE RD			Cross Road Culvert - 483308 30TH SIDE RD				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4406	Roads - Culvert	3238	30TH SIDEROAD	39560 COUNTY ROAD 12			Cross Road Culvert - 39560 COUNTY ROAD 12				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4407	Roads - Culvert	3200	MONO-AMARANTH TOWNLINE	<Null>			Cross Road Culvert - Amaranth / Mono Townline				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4408	Roads - Culvert		COUNTRY MEADOW DRIVE	<Null>			Cross Road Culvert - Country Meadow Dr.				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4409	Roads - Culvert		COUNTRY MEADOW DRIVE	<Null>			Cross Road Culvert - Country Meadow Dr.				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4410	Roads - Culvert		COUNTRY MEADOW DRIVE	<Null>			Cross Road Culvert - Country Meadow Dr.				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4411	Roads - Culvert	2453	AMARANTH - EAST LUTHER TOWN	193541 AMARANTH-E LUTH TLI			Cross Road Culvert - Cement Box Culvert - 193541 AMARANTH-E LUTH TLINE				Pre-Cast Concrete	1960	80	19	61	$750	$572	$178	$5,000	2	5
	4412	Roads - Culvert	2453	AMARANTH - EAST LUTHER TOWN	193415 AMARANTH-E LUTH TLI			Cross Road Culvert - 193415 AMARANTH-E LUTH TLINE				Corrugated Steel	1960	30	0	61	$250	$250	$0	$1,400	0	5
	4413	Roads - Culvert	3259	MONO-AMARANTH TOWNLINE	555102 MONO-AMARAN TLINE			Cross Road Culvert - Cement Box Culvert - 555102 MONO-AMARAN TLINE				Pre-Cast Concrete	1960	80	19	61	$750	$572	$178	$5,000	2	5
	4414	Roads - Culvert	2466	MONO-AMARANTH TOWNLINE	553580 MONO-AMARAN TLINE			Cross Road Culvert - Cement Box Culvert - 553580 MONO-AMARAN TLINE				Pre-Cast Concrete	1960	80	19	61	$750	$572	$178	$5,000	2	5

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Fixed Asset #	Map Link	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimmal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life		Proposed Rehabilitation Cost (2015 $)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current + Condition better then expected for age	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
		5.3					1.9								$0							
927	927	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
929	929	5	Average	Possible	Minor	M	2	2014	10	2017	2021	2055	0					30	2026	2026	2056	10
936	936	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
937	937	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	953	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
954	954	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
955	955	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
958	958	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
959	959	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
982	982	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
983	983	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
984	984	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
987	987	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
988	988	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
989	989	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
990	990	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
991	991	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
998	998	5	Average	Possible	Minor	M	2	2012	10	2015	2021	2057	0					30	2024	2024	2054	8
1000	1000	5	Average	Possible	Minor	M	2	2012	10	2015	2021	2057	0					30	2024	2024	2054	8
1005	1005	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1006	1006	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1011	1011	5	Average	Possible	Minor	M	2	2020	10	2023	2023	2053	2					20	2029	2029	2059	13
1013	1013	5	Average	Possible	Minor	M	2	1997	10	2000	2021	2072	0					30	2009	2022	2052	6
1015	1015	5	Average	Possible	Minor	M	2	2030	10	2033	2033	2063	12					0	2033	2033	2063	17
1018	1018	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1024	1024	5	Average	Possible	Minor	M	2	2030	10	2033	2033	2063	12					0	2033	2033	2063	17
1027	1027	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1029	1029	5	Average	Possible	Minor	M	2	2020	10	2023	2023	2053	2					20	2029	2029	2059	13
1039	1039	5	Average	Possible	Minor	M	2	2015	10	2018	2021	2054	0					30	2027	2027	2057	11
1041	1041	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1044	1044	5	Average	Possible	Minor	M	2	2015	10	2018	2021	2054	0					30	2027	2027	2057	11
1045	1045	5	Average	Possible	Minor	M	2	1997	10	2000	2021	2072	0					30	2009	2022	2052	6
1048	1048	5	Average	Possible	Minor	M	2	1997	10	2000	2021	2072	0					30	2009	2022	2052	6
1053	1053	5	Average	Possible	Minor	M	2	2030	10	2033	2033	2063	12					0	2033	2033	2063	17
1057	1057	5	Average	Possible	Minor	M	2	2020	10	2023	2023	2053	2					20	2029	2029	2059	13
1059	1059	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1070	1070	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1096	1096	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
	1122	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1123	1123	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1133	1133	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1144	1144	5	Average	Possible	Minor	M	2	2015	10	2018	2021	2054	0					30	2027	2027	2057	11
1146	1146	5	Average	Possible	Minor	M	2	2015	10	2018	2021	2054	0					30	2027	2027	2057	11
1147	1147	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1148	1148	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
1154	1154	5	Average	Possible	Minor	M	2	2007	10	2010	2021	2062	0					30	2019	2022	2052	6
	1156	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1161	1161	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	1169	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1174	1174	5	Average	Possible	Minor	M	2	2007	10	2010	2021	2062	0					30	2019	2022	2052	6
	1175	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1183	1183	5	Average	Possible	Minor	M	2	2018	10	2021	2021	2051	0					30	2030	2030	2060	14
1190	1190	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1198	1198	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
1207	1207	5	Average	Possible	Minor	M	2	2007	10	2010	2021	2062	0					30	2019	2022	2052	6
1209	1209	5	Average	Possible	Minor	M	2	2018	10	2021	2021	2051	0					30	2030	2030	2060	14
1212	1212	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
1221	1221	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1225	1225	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
1231	1231	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1234	1234	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6

Fixed Asset #	Map Link	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimmal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life		Proposed Rehabilitation Cost (2015 $)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current + Condition better then expected for age	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
1236	1236	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1240	1240	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1241	1241	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	1243	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1246	1246	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
1248	1248	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
1252	1252	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
1254	1254	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1255	1255	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1266	1266	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1272	1272	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1275	1275	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
1276	1276	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
1287	1287	5	Average	Possible	Minor	M	2	2007	10	2010	2021	2062	0					30	2019	2022	2052	6
1290	1290	5	Average	Possible	Minor	M	2	2020	10	2023	2023	2053	2					20	2029	2029	2059	13
1295	1295	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1296	1296	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1297	1297	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1302	1302	5	Average	Possible	Minor	M	2	2015	10	2018	2021	2054	0					30	2027	2027	2057	11
1303	1303	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	1304	5	Average	Possible	Minor	M	2	1987	11	1990	2021	2082	0					30	1999	2022	2052	6
1312	1312	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1313	1313	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1318	1318	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
1322	1322	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	1323	5	Average	Possible	Minor	M	2	1987	11	1990	2021	2082	0					30	1999	2022	2052	6
1325	1325	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1328	1328	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1333	1333	7	Good	Unlikely	Moderate	M	2	2065	10	2073	2073	2153	52					0	2073	2073	2153	57
1335	1335	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1344	1344	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1357	1357	5	Average	Possible	Minor	M	2	2007	10	2010	2021	2062	0					30	2019	2022	2052	6
1358	1358	5	Average	Possible	Minor	M	2	2017	10	2020	2021	2052	0					30	2029	2029	2059	13
1359	1359	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1363	1363	5	Average	Possible	Minor	M	2	2017	10	2020	2021	2052	0					30	2029	2029	2059	13
1365	1365	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
	1366	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1367	1367	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1373	1373	5	Average	Possible	Minor	M	2	2012	10	2015	2021	2057	0					30	2024	2024	2054	8
1374	1374	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1376	1376	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1378	1378	5	Average	Possible	Minor	M	2	2006	10	2009	2021	2063	0					30	2018	2022	2052	6
1381	1381	5	Average	Possible	Minor	M	2	2005	10	2008	2021	2064	0					30	2017	2022	2052	6
1399	1399	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	1408	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	1416	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	1419	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1422	1422	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1423	1423	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1431	1431	5	Average	Possible	Minor	M	2	2020	10	2023	2023	2053	2					20	2029	2029	2059	13
1442	1442	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1452	1452	5	Average	Possible	Minor	M	2	2006	10	2009	2021	2063	0					30	2018	2022	2052	6
1453	1453	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1457	1457	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1458	1458	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1464	1464	5	Average	Possible	Minor	M	2	2006	10	2009	2021	2063	0					30	2018	2022	2052	6
1472	1472	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1480	1480	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1484	1484	5	Average	Possible	Minor	M	2	2006	10	2009	2021	2063	0					30	2018	2022	2052	6
1487	1487	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1488	1488	5	Average	Possible	Minor	M	2	2006	10	2009	2021	2063	0					30	2018	2022	2052	6
1497	1497	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
1500	1500	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1501	1501	5	Average	Possible	Minor	M	2	2031	10	2034	2034	2064	13					0	2034	2034	2064	18
1513	1513	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1514	1514	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6

Fixed Asset #	Map Link	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimmal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life		Proposed Rehabilitation Cost (2015 $)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current + Condition better then expected for age	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
1515	1515	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1518	1518	5	Average	Possible	Minor	M	2	1996	10	1999	2021	2073	0					30	2008	2022	2052	6
1525	1525	5	Average	Possible	Minor	M	2	2031	10	2034	2034	2064	13					0	2034	2034	2064	18
1527	1527	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1535	1535	5	Average	Possible	Minor	M	2	2033	10	2036	2036	2066	15					0	2036	2036	2066	20
1536	1536	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1543	1543	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1545	1545	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1547	1547	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1548	1548	5	Average	Possible	Minor	M	2	1996	10	1999	2021	2073	0					30	2008	2022	2052	6
1556	1556	5	Average	Possible	Minor	M	2	1996	10	1999	2021	2073	0					30	2008	2022	2052	6
	1561	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	1564	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1565	1565	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1567	1567	5	Average	Possible	Minor	M	2	2033	10	2036	2036	2066	15					0	2036	2036	2066	20
1568	1568	5	Average	Possible	Minor	M	2	1996	10	1999	2021	2073	0					30	2008	2022	2052	6
1570	1570	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1571	1571	5	Average	Possible	Minor	M	2	1996	10	1999	2021	2073	0					30	2008	2022	2052	6
1574	1574	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1579	1579	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1581	1581	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1582	1582	5	Average	Possible	Minor	M	2	2005	10	2008	2021	2064	0					30	2017	2022	2052	6
1585	1585	5	Average	Possible	Minor	M	2	2005	10	2008	2021	2064	0					30	2017	2022	2052	6
	1589	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	1595	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1599	1599	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
1601	1601	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1604	1604	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
1605	1605	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
1608	1608	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
1612	1612	5	Average	Possible	Minor	M	2	2028	10	2031	2031	2061	10					5	2033	2033	2063	17
1613	1613	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1616	1616	5	Average	Possible	Minor	M	2	2028	10	2031	2031	2061	10					5	2033	2033	2063	17
1620	1620	5	Average	Possible	Minor	M	2	2028	10	2031	2031	2061	10					5	2033	2033	2063	17
1621	1621	5	Average	Possible	Minor	M	2	2028	10	2031	2031	2061	10					5	2033	2033	2063	17
1622	1622	5	Average	Possible	Minor	M	2	2028	10	2031	2031	2061	10					5	2033	2033	2063	17
1623	1623	5	Average	Possible	Minor	M	2	2028	10	2031	2031	2061	10					5	2033	2033	2063	17
1624	1624	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1625	1625	5	Average	Possible	Minor	M	2	2028	10	2031	2031	2061	10					5	2033	2033	2063	17
1626	1626	5	Average	Possible	Minor	M	2	2005	10	2008	2021	2064	0					30	2017	2022	2052	6
1632	1632	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
1663	1663	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
1667	1667	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
1671	1671	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
1693	1693	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
1694	1694	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
1695	1695	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
1700	1700	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1704	1704	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1709	1709	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1710	1710	5	Average	Possible	Minor	M	2	2031	10	2034	2034	2064	13					0	2034	2034	2064	18
1713	1713	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1716	1716	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1719	1719	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
1720	1720	5	Average	Possible	Minor	M	2	2006	10	2009	2021	2063	0					30	2018	2022	2052	6
1733	1733	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1735	1735	7	Good	Unlikely	Moderate	M	2	2065	10	2073	2073	2153	52					0	2073	2073	2153	57
1743	1743	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1760	1760	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1770	1770	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1774	1774	5	Average	Possible	Minor	M	2	2018	10	2021	2021	2051	0					30	2030	2030	2060	14
1777	1777	5	Average	Possible	Minor	M	2	2018	10	2021	2021	2051	0					30	2030	2030	2060	14
1778	1778	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1784	1784	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	1787	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1788	1788	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6

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	1791	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1806	1806	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1808	1808	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1809	1809	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1810	1810	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	1816	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	1821	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1822	1822	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1823	1823	5	Average	Possible	Minor	M	2	2005	10	2008	2021	2064	0					30	2017	2022	2052	6
	1824	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	1830	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1831	1831	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1834	1834	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1838	1838	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1840	1840	5	Average	Possible	Minor	M	2	2020	10	2023	2023	2053	2					20	2029	2029	2059	13
1841	1841	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1859	1859	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1862	1862	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1863	1863	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1864	1864	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1865	1865	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1874	1874	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1883	1883	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1887	1887	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1898	1898	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1905	1905	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1909	1909	5	Average	Possible	Minor	M	2	2020	10	2023	2023	2053	2					20	2029	2029	2059	13
1910	1910	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
1911	1911	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
1915	1915	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1916	1916	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1919	1919	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	1920	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1922	1922	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1931	1931	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
	1932	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1934	1934	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1937	1937	5	Average	Possible	Minor	M	2	1996	10	1999	2021	2073	0					30	2008	2022	2052	6
	1943	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1949	1949	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1953	1953	5	Average	Possible	Minor	M	2	1996	10	1999	2021	2073	0					30	2008	2022	2052	6
1958	1958	5	Average	Possible	Minor	M	2	1996	10	1999	2021	2073	0					30	2008	2022	2052	6
1964	1964	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1967	1967	5	Average	Possible	Minor	M	2	1996	10	1999	2021	2073	0					30	2008	2022	2052	6
1970	1970	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
1975	1975	5	Average	Possible	Minor	M	2	1996	10	1999	2021	2073	0					30	2008	2022	2052	6
1976	1976	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	1979	5	Average	Possible	Moderate	M	2	2032	10	2040	2040	2120	19					10	2048	2048	2128	32
1980	1980	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1984	1984	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1985	1985	5	Average	Possible	Minor	M	2	2020	10	2023	2023	2053	2					20	2029	2029	2059	13
1990	1990	5	Average	Possible	Minor	M	2	1990	10	1993	2021	2079	0					30	2002	2022	2052	6
1993	1993	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
1996	1996	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2003	2003	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
2005	2005	5	Average	Possible	Minor	M	2	1990	10	1993	2021	2079	0					30	2002	2022	2052	6
2009	2009	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2010	2010	5	Average	Possible	Minor	M	2	1990	10	1993	2021	2079	0					30	2002	2022	2052	6
2016	2016	5	Average	Possible	Minor	M	2	2005	10	2008	2021	2064	0					30	2017	2022	2052	6
2017	2017	5	Average	Possible	Minor	M	2	1999	10	2002	2021	2070	0					30	2011	2022	2052	6
2020	2020	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2023	2023	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	2025	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	2026	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2032	2032	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2034	2034	5	Average	Possible	Minor	M	2	2016	10	2019	2021	2053	0					30	2028	2028	2058	12

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2035	2035	5	Average	Possible	Minor	M	2	2003	10	2006	2021	2066	0					30	2015	2022	2052	6
2036	2036	5	Average	Possible	Moderate	M	2	2032	10	2040	2040	2120	19					10	2048	2048	2128	32
2038	2038	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2039	2039	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2040	2040	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	2050	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2060	2060	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2061	2061	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2062	2062	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2073	2073	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2078	2078	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2079	2079	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2082	2082	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2096	2096	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2103	2103	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
	2107	5	Average	Possible	Moderate	M	2	2032	10	2040	2040	2120	19					10	2048	2048	2128	32
2112	2112	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2126	2126	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
2132	2132	5	Average	Possible	Minor	M	2	2005	10	2008	2021	2064	0					30	2017	2022	2052	6
2141	2141	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
	2147	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2154	2154	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2160	2160	5	Average	Possible	Moderate	M	2	2032	10	2040	2040	2120	19					10	2048	2048	2128	32
	2168	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2169	2169	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2185	2185	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2191	2191	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
2192	2192	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2195	2195	5	Average	Possible	Minor	M	2	2005	10	2008	2021	2064	0					30	2017	2022	2052	6
2198	2198	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2207	2207	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	2213	6	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					40	2002	2022	2052	6
2214	2214	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2221	2221	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2222	2222	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2230	2230	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2234	2234	5	Average	Possible	Minor	M	2	2005	10	2008	2021	2064	0					30	2017	2022	2052	6
2235	2235	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2239	2239	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2240	2240	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2242	2242	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2245	2245	5	Average	Possible	Moderate	M	2	2032	10	2040	2040	2120	19					10	2048	2048	2128	32
2246	2246	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	2248	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2249	2249	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2253	2253	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2257	2257	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2261	2261	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2262	2262	5	Average	Possible	Minor	M	2	2005	10	2008	2021	2064	0					30	2017	2022	2052	6
2263	2263	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2267	2267	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2268	2268	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2269	2269	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2271	2271	5	Average	Possible	Minor	M	2	2005	10	2008	2021	2064	0					30	2017	2022	2052	6
2273	2273	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2274	2274	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2275	2275	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2284	2284	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
2288	2288	5	Average	Possible	Minor	M	2	1998	10	2001	2021	2071	0					30	2010	2022	2052	6
3214	3214	6	Average	Possible	Minor	M	2	2036	10	2039	2039	2069	18					0	2039	2039	2069	23
3216	3216	6	Average	Possible	Minor	M	2	2036	10	2039	2039	2069	18					0	2039	2039	2069	23
3287	3287	6	Average	Possible	Minor	M	2	2037	10	2040	2040	2070	19					0	2040	2040	2070	24
3288	3288	6	Average	Possible	Minor	M	2	2037	10	2040	2040	2070	19					0	2040	2040	2070	24
3289	3289	6	Average	Possible	Minor	M	2	2037	10	2040	2040	2070	19					0	2040	2040	2070	24
3290	3290	6	Average	Possible	Minor	M	2	2037	10	2040	2040	2070	19					0	2040	2040	2070	24
3508	3508	7	Good	Unlikely	Minor	L	1	2038	10	2041	2041	2071	20					0	2041	2041	2071	25

Fixed Asset #	Map Link	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimmal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life		Proposed Rehabilitation Cost (2015 $)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current + Condition better then expected for age	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
3509	3509	7	Good	Unlikely	Minor	L	1	2038	10	2041	2041	2071	20					0	2041	2041	2071	25
3552	2285	7	Good	Unlikely	Minor	L	1	2039	10	2042	2042	2072	21					0	2042	2042	2072	26
3553	1889	7	Good	Unlikely	Minor	L	1	2039	10	2042	2042	2072	21					0	2042	2042	2072	26
3554	1731	7	Good	Unlikely	Minor	L	1	2039	10	2042	2042	2072	21					0	2042	2042	2072	26
3555	1870	7	Good	Unlikely	Minor	L	1	2039	10	2042	2042	2072	21					0	2042	2042	2072	26
3556	1600	7	Good	Unlikely	Minor	L	1	2039	10	2042	2042	2072	21					0	2042	2042	2072	26
4031	1360	7	Good	Unlikely	Minor	L	1	2040	10	2043	2043	2073	22					0	2043	2043	2073	27
4032	1118	7	Good	Unlikely	Minor	L	1	2040	10	2043	2043	2073	22					0	2043	2043	2073	27
4033	2236	7	Good	Unlikely	Minor	L	1	2040	10	2043	2043	2073	22					0	2043	2043	2073	27
4034	1749	7	Good	Unlikely	Minor	L	1	2040	10	2043	2043	2073	22					0	2043	2043	2073	27
4121	2199	8	Good	Unlikely	Minor	L	1	2041	10	2044	2044	2074	23					0	2044	2044	2074	28
4122	2027	8	Good	Unlikely	Minor	L	1	2041	10	2044	2044	2074	23					0	2044	2044	2074	28
4123	2046	8	Good	Unlikely	Minor	L	1	2041	10	2044	2044	2074	23					0	2044	2044	2074	28
4124	1110	8	Good	Unlikely	Minor	L	1	2041	10	2044	2044	2074	23					0	2044	2044	2074	28
4125	1058	8	Good	Unlikely	Minor	L	1	2041	10	2044	2044	2074	23					0	2044	2044	2074	28
4126	4386	8	Good	Unlikely	Minor	L	1	2041	10	2044	2044	2074	23					0	2044	2044	2074	28
4168	1125	8	Good	Unlikely	Minor	L	1	2041	10	2044	2044	2074	23					0	2044	2044	2074	28
4254	1301	8	Good	Unlikely	Minor	L	1	2042	10	2045	2045	2075	24					0	2045	2045	2075	29
4255	1533	8	Good	Unlikely	Minor	L	1	2042	10	2045	2045	2075	24					0	2045	2045	2075	29
4256	2155	8	Good	Unlikely	Minor	L	1	2042	10	2045	2045	2075	24					0	2045	2045	2075	29
	4380	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4381	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4382	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4383	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4384	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4385	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4387	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4388	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4389	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4390	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4391	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4392	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4393	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4394	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4395	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4396	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4397	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4398	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4399	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4400	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4401	5	Average	Possible	Moderate	M	2	2032	10	2040	2040	2120	19					10	2048	2048	2128	32
	4402	5	Average	Possible	Moderate	M	2	2032	10	2040	2040	2120	19					10	2048	2048	2128	32
	4403	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4404	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4405	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4406	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4407	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4408	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4409	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4410	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4411	5	Average	Possible	Moderate	M	2	2032	10	2040	2040	2120	19					10	2048	2048	2128	32
	4412	5	Average	Possible	Minor	M	2	1987	10	1990	2021	2082	0					30	1999	2022	2052	6
	4413	5	Average	Possible	Moderate	M	2	2032	10	2040	2040	2120	19					10	2048	2048	2128	32
	4414	5	Average	Possible	Moderate	M	2	2032	10	2040	2040	2120	19					10	2048	2048	2128	32

Amaranth
Storm Pond - tax funded

Fixed Asset #	Subtype	Asset Name	Road Section GIS ID	Road Name	Address	Volume Capacity (m3)	Water Type	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization	2021 Net Book Value	Replacement Cost	Condition Based On Useful Life	Assessed Condition	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure
									100	68	33	$ 36,615	$ 11,811	$ 24,804	$ 80,000			7.0				
	DetentionPond	Storm Retention Pond - JAMES STREET	2447	JAMES STREET			Storm	1986	100	65	35	$11,514	$4,030	$7,484	$30,000	7	7	7	Good	Unlikely	Moderate	M
	DetentionPond	Storm Retention Pond - ST. JOHN STREET	2417	ST. JOHN STREET			Storm	1990	100	69	31	$25,101	$7,781	$17,320	$50,000	7		7	Good	Unlikely	Moderate	M

Catch Basin & Pipe to road (James Street Pond)

Amaranth
Storm Pond - tax funded

Fixed Asset #	Subtype	Numerical Value of Risk of Failure	Year Replacement due to minimal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life		Rehabilitation Year	Rehabilitation Cost (2021)	Subsequent Rehab Year	Subsequent Rehab Costs	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
		2									$ 2,500		$ -						
	DetentionPond	2	2076	10	2086	2086	2186	64		2029	$1,000				0	2086	2086	2186	64
	DetentionPond	2	2080	10	2090	2090	2190	68		2029	$1,500				0	2090	2090	2190	68

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Storm - Discharge Point Inventory tax funded

Fixed Asset #	Subtype	Asset Type	Asset Name	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization System	2021 Net Book Value System	Replacement Cost	Condition Based On Useful Life	Assessed Condition	Condition Used for Analysis	Asset Condition (As per Priority Rating)
											$45,000				
					50	16	33	$ 13,353	$ 9,024	$ 4,329	$ 45,000			5	
2760	DischargePoint - Outfall w/ Headwall	DischargePoint - Outfall w/ Headwall	Storm Water Discharge Point - off of St. Johns St.	1990	50	18	31	$7,377	$4,721	$2,656	$25,000	4	5	5	Average
3017	DischargePoint - Outfall w/ Headwall	DischargePoint - Outfall w/ Headwall	Storm Water Discharge Point - at east end of Henry St.	1986	50	14	35	$5,976	$4,302	$1,673	$20,000	3	5	5	Average

Probability of Failure (Based on Condition or Expected Condition)	**Consequence of Failure**	**Risk of Failure**	**Numerical Value of Risk of Failure**	**Year Replacement due to minimal maintenance practices**	**Current Levels of Service % benefit**	**Revised Levels Service Replacement Year**	**Year Replacement Applying Risk Score**	**Subsequent Replacement Year**	**Revised Remaining Useful Life**		**Rehabilitation Year**	**Rehabilitation Cost (2021)**	**Extended Life (Years) due to Betterment**	**Expected Levels of Service % benefit over Current**	**Revised Levels Service Replacement Year**	**Year Replacement Applying Risk Score - or Staff Override**	**Subsequent Replacement Year**	**Revised Remaining Useful Life**
			2.0									**$ -**						
Possible	Moderate	M	2	2035	10	2040	2040	2090	19					0	2040	2040	2090	18
Possible	Moderate	M	2	2031	10	2036	2036	2086	15					0	2036	2036	2086	14

Roads - Road Section Inventory tax funded

Agency ID	Map Link	Road Name	From	To	Surface Material	Boundary Rd	Length (m)	Install Year	Useful Life based on Road Study	Remaining Useful Life (calculation)	Age	Historic Cost	2021 Accumulated Amortization System	2021 Net Book Value System	2021 Replacement Cost/Section	Cost per Linear m	Condition Based On Useful Life from Study	Condition from Study	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Rehabilitation Year	Rehabilitation Cost	Extended Life (Years) due to Betterment	Subsequent Improvement Year	Subsequent Improvement Cost	Expected Levels of Service % benefit over Current + Condition better then expected for age	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
							231,249		24		11	$4,660,860	$2,352,636	$2,308,224	$6,808,215				7					1.5														
		10th Line	County Rd 109	John St.	Asphalt	No	600	2011	25	15	10	$21,000	$9,240	$11,760	$84,000	$140	6	10	10	Very Good	Rare	Moderate	L	1	2034	10	2037	2037						30	2045	2045	2070	23
3512		10TH LINE	Henry ST	5 SR	Asphalt	No	1866	2011	25	15	10	$55,118	$40,420	$14,698	$261,240	$140	6	9	9	Very Good	Rare	Moderate	L	1	2034	10	2037	2037						20	2042	2042	2067	20
4268		20 SR	10th Line	9th Line	Asphalt	No	1382	2016	25	20	5	$97,846	$39,138	$58,707	$193,480	$140	8	9	9	Very Good	Rare	Moderate	L	1	2039	10	2042	2042						5	2043	2043	2068	21
2377		20 SR	2nd Line	Amaranth/Mono TL	Asphalt	No	1399	2005	25	9	16	$86,304	$86,304	$0	$195,814	$140	4	7	7	Good	Unlikely	Moderate	M	2	2028	10	2031	2031						20	2036	2036	2061	14
4376	2375	20 SR	4th Line	County Rd 11	Asphalt	No	1519	2021	25	25	0	$347,763	$23,184	$324,579	$212,660	$140	10	10	10	Very Good	Rare	Moderate	L	1	2044	10	2047	2047						0	2047	2047	2072	25
4377	2374	20 SR	4th Line	County Rd 12	Asphalt	No	1301	2021	25	25	0	$297,854	$19,857	$277,997	$182,140	$140	10	10	10	Very Good	Rare	Moderate	L	1	2044	10	2047	2047						0	2047	2047	2072	25
4379	2372	20 SR	6th Line	7th Line	Asphalt	No	1697	2021	25	25	0	$388,515	$25,901	$362,614	$237,580	$140	10	10	10	Very Good	Rare	Moderate	L	1	2044	10	2047	2047						0	2047	2047	2072	25
4380	2371	20 SR	7th Line	8th Line	Asphalt	No	1336	2021	25	25	0	$305,867	$20,391	$285,476	$187,040	$140	10	10	10	Very Good	Rare	Moderate	L	1	2044	10	2047	2047						0	2047	2047	2072	25
4381	2402	20 SR	8th Line	742m West of 8th Line	Asphalt	No	742	2021	25	25	0	$169,875	$11,325	$158,550	$103,880	$140	10	10	10	Very Good	Rare	Moderate	L	1	2044	10	2047	2047						0	2047	2047	2072	25
2392		20 SR	9th Line	742m West of 8th Line	Asphalt	No	626	2008	25	12	13	$79,653	$37,515	$42,138	$87,689	$140	5	9	9	Very Good	Rare	Moderate	L	1	2031	10	2034	2034						30	2042	2042	2067	20
4267		20 SR	Amaranth/East Luther TL	10th Line	Asphalt	No	1318	2016	25	20	5	$93,314	$37,326	$55,989	$184,520	$140	8	9	9	Very Good	Rare	Moderate	L	1	2039	10	2042	2042						5	2043	2043	2068	21
2376		20 SR	County Rd 11	2nd Line	Asphalt	No	1254	2005	25	9	16	$77,378	$77,378	$0	$175,561	$140	4	7	7	Good	Unlikely	Moderate	M	2	2028	10	2031	2031						20	2036	2036	2061	14
4378	2374	20 SR	County Rd 12	6th Line	Asphalt	No	1259	2021	25	25	0	$288,238	$19,216	$269,022	$176,260	$140	10	10	10	Very Good	Rare	Moderate	L	1	2044	10	2047	2047						0	2047	2047	2072	25
2464		2nd Line	County Rd 109	.6km N of County Rd 109	Asphalt	No	627	2001	25	5	20	$35,508	$35,508	$0	$87,714	$140	2	6	6	Average	Possible	Moderate	M	2	2024	10	2027	2027						30	2035	2035	2060	13
2406		30 SR	.7km E. of 2nd Line	Amaranth / Mon TL	Asphalt	No	692	2002	25	6	19	$40,035	$40,035	$0	$130,000	$140	2	8	8	Good	Unlikely	Moderate	M	2	2025	10	2028	2028						50	2041	2030	2055	8
2431		30 SR	2nd Line (County Rd 11)	.7km E of 2nd Line	Asphalt	No	700	2002	25	6	19	$40,512	$40,512	$0	$98,031	$140	2	9	9	Very Good	Rare	Moderate	L	1	2025	10	2028	2028						60	2043	2043	2068	21
2403		5 SR	.7km E. of 2nd line	Amaranth / Mono TL	Asphalt	No	688	2003	25	7	18	$41,015	$41,015	$0	$96,314	$140	3	6	6	Average	Possible	Moderate	M	2	2026	10	2029	2029						20	2034	2034	2059	12
4120		5 SR	10th Line	GV Amaranth Townline	Asphalt	No	1316	2014	25	18	7	$84,267	$44,943	$39,325	$184,240	$140	7	9	9	Very Good	Rare	Moderate	L	1	2037	10	2040	2040						10	2043	2043	2068	21
2393		5 SR	2nd Line	.7km E. of 2nd Line	Asphalt	No	704	2003	25	7	18	$41,996	$41,996	$0	$98,619	$140	3	7	7	Good	Unlikely	Moderate	M	2	2026	10	2029	2029						30	2037	2037	2062	15
2439	2439	5 SR	County Rd 11	2ns Line	Asphalt	No	1262	2006	25	10	15	$79,790	$79,790	$0	$176,680	$140	4	5	5	Average	Possible	Moderate	M	2	2029	10	2032	2032						5	2033	2023	2048	1
2461		6th Line	County Rd 10	.4km N. of County Rd 10	Asphalt	No	444	1991	25	0	30	$21,104	$21,104	$0	$62,105	$140	0	8	8	Good	Unlikely	Moderate	M	2	2014	10	2017	2021						70	2035	2035	2060	13
		6TH LINE	County Rd 109	460m north of County Rd 109	Asphalt	No	460	2011	25	15	10	$16,100	$7,084	$9,016	$64,400	$140	6	8	8	Good	Unlikely	Moderate	M	2	2034	10	2037	2037						10	2040	2040	2065	18
4167		9th Line	130 m North of County Road 109 (	Station Street	Asphalt	No	1088	2014	25	18	7	$69,206	$36,910	$32,296	$152,320	$140	7	9	9	Very Good	Rare	Moderate	L	1	2037	10	2040	2040						10	2043	2043	2068	21
3514		9TH LINE	County Road 109	130 m North of County Road 109 (Culvert)	Asphalt	No	130	2011	25	15	10	$10,105	$7,410	$2,695	$18,200	$140	6	8	8	Good	Unlikely	Moderate	M	2	2034	10	2037	2037						10	2040	2040	2065	18
4305		Amarant/Grand Valley TL	20th SR	Concesion Rd 10 / 11	Asphalt	Yes	1400	2018	20	17	3	$147,555	$39,348	$108,207	$196,000	$140	9	10	10	Very Good	Rare	Moderate	L	1	2036	10	2038	2038						5	2039	2039	2059	17
3259		Amaranth / Mono TL	.6km North of 20 SR	25th SR	Asphalt	Yes	2465	2010	20	9	11	$176,526	$141,221	$35,305	$345,100	$140	5	6	6	Average	Possible	Moderate	M	2	2028	10	2030	2030						5	2031	2031	2051	9
3201		Amaranth / Mono TL	.3km S of 20th SR	20th SR	Asphalt	Yes	274	2009	20	8	12	$17,583	$15,239	$2,344	$38,368	$140	4	8	8	Good	Unlikely	Moderate	M	2	2027	10	2029	2029						30	2035	2035	2055	13
3200		Amaranth / Mono TL	.6km N of 25th SR	30th SR	Asphalt	Yes	2446	2009	20	8	12	$157,239	$136,274	$20,965	$342,440	$140	4	7	7	Good	Unlikely	Moderate	M	2	2027	10	2029	2029						20	2033	2033	2053	11
2432		Amaranth / Mono TL	.6km N of 30th SR	Highway 89	Asphalt	Yes	594	2002	20	1	19	$34,368	$34,368	$0	$83,163	$140	1	7	7	Good	Unlikely	Moderate	M	2	2020	10	2022	2022						50	2032	2032	2052	10
3152		Amaranth / Mono TL	15th SR	.3km S of 20th SR	Asphalt	Yes	488	2007	20	6	14	$31,204	$31,204	$0	$68,363	$140	3	8	8	Good	Unlikely	Moderate	M	2	2025	10	2027	2027						40	2035	2035	2055	13
3202		Amaranth / Mono TL	20th SR	.6km North of 20 SR	Asphalt	Yes	600	2009	20	8	12	$39,155	$33,934	$5,221	$84,000	$140	4	6	6	Average	Possible	Moderate	M	2	2027	10	2029	2029						10	2031	2023	2043	1
3258		Amaranth / Mono TL	25th SR	.6km N of 25th SR	Asphalt	Yes	600	2010	20	9	11	$42,799	$34,239	$8,560	$84,000	$140	5	7	7	Good	Unlikely	Moderate	M	2	2028	10	2030	2030						10	2032	2032	2052	10
2475		Amaranth / Mono TL	30th SR	.6km N of 30th SR	Asphalt	Yes	599	2002	20	1	19	$34,635	$34,635	$0	$0	$140	1	5	5	Average	Possible	Moderate	M	2	2020	10	2022	2022						30	2028	2030	2050	8
2308		CEDAR PLACE	MAPLEWOOD DRIVE	END OF CEDAR PLACE	Asphalt	No	296	1998	25	2	23	$15,481	$15,481	$0	$41,426	$140	1	7	7	Good	Unlikely	Moderate	M	2	2021	10	2024	2024						50	2037	2037	2062	15
2307		CHERRYWOOD PLACE	MAPLEWOOD DRIVE	END OF CHERRYWOOD Place	Asphalt	No	300	1998	25	2	23	$15,708	$15,708	$0	$42,034	$140	1	7	7	Good	Unlikely	Moderate	M	2	2021	10	2024	2024						50	2037	2037	2062	15
2448		CHURCH STREET	10th Line	Mill St	Asphalt	No	362	2004	25	8	17	$21,928	$21,928	$0	$50,686	$140	3	10	10	Very Good	Rare	Moderate	L	1	2027	10	2030	2030						60	2045	2045	2070	23
4257		Crago Road	5th Sideroad	End of Cul-de-sac	Asphalt	No	601	2015	25	19	6	$40,392	$18,850	$21,543	$84,140	$140	8	10	10	Very Good	Rare	Moderate	L	1	2038	10	2041	2041						10	2044	2044	2069	22
2458		David St	Mill St	Main St	Asphalt	No	91	1985	25	0	36	$3,208	$3,208	$0	$12,716	$140	0	6	6	Average	Possible	Moderate	M	2	2008	10	2011	2021						50	2024	2024	2049	2
2450		DEVONLEIGH DRIVE	30th SR	30th SR	Asphalt	No	641	2001	25	5	20	$36,325	$36,325	$0	$89,734	$140	2	8	8	Good	Unlikely	Moderate	M	2	2024	10	2027	2027						50	2040	2040	2065	18
2426		Evans Ave	James St	end	Asphalt	No	30	1985	25	0	36	$1,047	$1,047	$0	$4,151	$140	0	6	6	Average	Possible	Moderate	M	2	2008	10	2011	2021						50	2024	2024	2049	2
2427		Evans Ave	James St	Henry St	Asphalt	No	72	1985	25	0	36	$2,555	$2,555	$0	$10,129	$140	0	6	6	Average	Possible	Moderate	M	2	2008	10	2011	2021						50	2024	2024	2049	2
2412		HENRY STREET	Evans Ave	End	Asphalt	No	66	1985	25	0	36	$2,340	$2,340	$0	$9,278	$140	0	6	6	Average	Possible	Moderate	M	2	2008	10	2011	2021						50	2024	2024	2049	2
2413		HENRY STREET	Main St	Evans Ave	Asphalt	No	148	1985	25	0	36	$5,211	$5,211	$0	$20,657	$140	0	7	7	Good	Unlikely	Moderate	M	2	2008	10	2011	2021						60	2026	2026	2051	4
2414		HENRY STREET	Mill St	Main St	Asphalt	No	92	1985	25	0	36	$3,242	$3,242	$0	$12,853	$140	0	9	9	Very Good	Rare	Moderate	L	1	2008	10	2011	2021						80	2031	2031	2056	9
2408		HORNETT LANE	Menary Drive	County Rd 10	Asphalt	No	79	1989	25	0	32	$3,448	$3,448	$0	$11,064	$140	0	6	6	Average	Possible	Moderate	M	2	2012	10	2015	2021						50	2028	2028	2053	6
4258		Hughson Street	Amaranth/Mono Townline	Crago Road	Asphalt	No	643	2015	25	19	6	$43,215	$20,167	$23,048	$90,020	$140	8	10	10	Very Good	Rare	Moderate	L	1	2038	10	2041	2041						10	2044	2044	2069	22
2447		James St	Evans Ave	End of James St	Asphalt	No	268	1985	25	0	36	$9,460	$9,460	$0	$37,503	$140	0	5	5	Average	Possible	Moderate	M	2	2008	10	2011	2021						40	2021	2024	2049	2
2424		John St	Church St	Mill St	Asphalt	No	308	2011	25	15	10	$10,881	$10,881	$0	$43,135	$140	6	5	6	Average	Possible	Moderate	M	2	2034	10	2037	2037						0	2037	2037	2062	15
2451		MAIN STREET	David St	Henry St	Asphalt	No	198	1985	25	0	36	$6,987	$6,987	$0	$27,698	$140	0	7	7	Good	Unlikely	Moderate	M	2	2008	10	2011	2021						60	2026	2026	2051	4
2401		Maplewood Dr	Cherrywood Place	Woodland Rd	Asphalt	No	279	1998	25	2	23	$14,593	$14,593	$0	$39,049	$140	1	9	9	Very Good	Rare	Moderate	L	1	2021	10	2024	2024						70	2042	2042	2067	20
2400		Maplewood Dr	Woodland Rd	End of Maplewood Dr	Asphalt	No	132	1998	25	2	23	$6,926	$6,926	$0	$18,533	$140	1	7	7	Good	Unlikely	Moderate	M	2	2021	10	2024	2024						50	2037	2037	2062	15
2430		MAPLEWOOD DRIVE	Amaranth / Mono TL	Cedar Place	Asphalt	No	373	1998	25	2	23	$19,536	$19,536	$0	$52,277	$140	1	9	9	Very Good	Rare	Moderate	L	1	2021	10	2024	2024						70	2042	2042	2067	20
2429		MAPLEWOOD DRIVE	Cedar Place	Sylvanwood Rd	Asphalt	No	198	1998	25	2	23	$10,345	$10,345	$0	$27,682	$140	1	9	9	Very Good	Rare	Moderate	L	1	2021	10	2024	2024						70	2042	2042	2067	20
2428		MAPLEWOOD DRIVE	Sylanwood Rd	Cherrywood Place	Asphalt	No	89	1998	25	2	23	$4,649	$4,649	$0	$12,442	$140	1	9	9	Very Good	Rare	Moderate	L	1	2021	10	2024	2024						70	2042	2042	2067	20
4259		Mckibbon Ave	Crago Road	Hughson Street	Asphalt	No	653	2015	25	19	6	$43,887	$20,481	$23,406	$91,420	$140	8	10	10	Very Good	Rare	Moderate	L	1	2038	10	2041	2041						10	2044	2044	2069	22
2407		MENARY DRIVE	County Rd 12	Hornett Lane	Asphalt	No	209	1989	25	0	32	$9,126	$9,126	$0	$29,291	$140	0	6	6	Average	Possible	Moderate	M	2	2012	10	2015	2021						50	2028	2028	2053	6
2425		Mill St	Church St	David St	Asphalt	No	247	2011	25	15	10	$8,738	$8,738	$0	$34,639	$140	6	7	7	Good	Unlikely	Moderate	M	2	2034	10	2037	2037						5	2038	2038	2063	16
2399		Mill St	David St	Station St	Asphalt	No	142	2011	25	15	10	$5,023	$5,023	$0	$19,914	$140	6	9	9	Very Good	Rare	Moderate	L	1	2034	10	2037	2037						20	2042	2042	2067	20
2422		MILL STREET	Station St	Henry St	Asphalt	No	66	2011	25	15	10	$2,339	$2,339	$0	$9,271	$140	6	9	9	Very Good	Rare	Moderate	L	1	2034	10	2037	2037						20	2042	2042	2067	20
3044		Peter Court	Peter St	end of Peter Court	Asphalt	No	168	2006	25	10	15	$10,560	$10,560	$0	$23,580	$140	4	8	8	Good	Unlikely	Moderate	M	2	2029	10	2032	2032						30	2040	2040	2065	18
2420		PETER STREET	Russel Hill Rd	Peter St / Peter Court	Asphalt	No	341	2006	25	10	15	$21,363	$21,363	$0	$47,701	$140	4	8	8	Good	Unlikely	Moderate	M	2	2029	10	2032	2032						30	2040	2040	2065	18
2421		PETER STREET	St John St	Russel Hill Rd	Asphalt	No	126	2006	25	10	15	$7,894	$7,894	$0	$17,627	$140	4	9	9	Very Good	Rare	Moderate	L	1	2029	10	2032	2032						40	2042	2042	2067	20
2418		RUSSEL HILL ROAD	Peter St / Peter Court	Peter St	Asphalt	No	455	2006	25	10	15	$28,529	$28,529	$0	$63,703	$140	4	8	8	Good	Unlikely	Moderate	M	2	2029	10	2032	2032						30	2040	2040	2065	18
2419		RUSSEL HILL ROAD	St John St	Peter St	Asphalt	No	283	2006	25	10	15	$17,761	$17,761	$0	$39,658	$140	4	8	8	Good	Unlikely	Moderate	M	2	2029	10	2032	2032						30	2040	2040	2065	18
2409		SHANNON COURT	3rd Line	end of Shannon Court	Asphalt	No	657	1992	25	0	29	$31,536	$31,536	$0	$91,974	$140	0	5	5	Average	Possible	Moderate	M	2	2015	10	2018	2021						40	2028	2028	2053	6
2417		ST. JOHN STREET	Russel Hill Rd	Peter St	Asphalt	No	480	2006	25	10	15	$30,088	$30,088	$0	$67,183	$140	4	8	8	Good	Unlikely	Moderate	M	2	2029	10	2032	2032						30	2040	2040	2065	18
2416		ST. JOHN STREET	Station St	Russel Hill Rd	Asphalt	No	191	2006	25	10	15	$11,967	$11,967	$0	$26,720	$140	4	9	9	Very Good	Rare	Moderate	L	1	2029	10	2032	2032						40	2042	2042	2067	20
2397		Station St	10th Line/Mill St	St. John Street	Asphalt	No	369	2004	25	8	17	$22,364	$22,364	$0	$51,694	$140	3	6	6	Average	Possible	Moderate	M	2	2027	10	2030	2030						20	2035	2035	2060	13
4119		Station St	9th Line	East Boundary Line	Asphalt	No	540	2014	25	18	7	$29,360	$15,659	$13,701	$75,600	$140	7	9	9	Very Good	Rare	Moderate	L	1	2037	10	2040	2040						10	2043	2043	2068	21
2398		Station St	St. John St	Peter St	Asphalt	No	281	2004	25	8	17	$17,019	$17,019	$0	$39,339	$140	3	6	6	Average	Possible	Moderate	M	2	2027	10	2030	2030						20	2035	2035	2060	13
2304		SYLVANWOOD ROAD	HIGHWAY 89	MAPLEWOOD DRIVE	Asphalt	No	260	1998	25	2	23	$13,578	$13,578	$0	$36,336	$140	1	9	9	Very Good	Rare	Moderate	L	1	2021	10	2024	2024						70	2042	2042	2067	20
2452		WOODLAND ROAD	Maplewood Dr	end of Woodland Dr	Asphalt	No	441	1998	25	2	23	$23,067	$23,067	$0	$61,726	$140	1	5	5	Average	Possible	Moderate	M	2	2021	10	2024	2024						30	2032	2032	2057	10
4317	3397	10th Line	15th SR	20th SR	Gravel	No	3082	2018	3	0	3	$11,082	$11,082	$0	$6,164	$2	0	5	5	Average	Possible	Minor	M	2														
4318	3396	10th Line	20th SR	25th SR	Gravel	No	3082	2018	3	0	3	$6,461	$6,461	$0	$6,164	$2	0	7	7	Good	Unlikely	Minor	L	1														
4319	3395	10th Line	25th SR	30th SR	Gravel	No	3095	2018	3	0	3	$6,488	$6,488	$0	$6,190	$2	0	5	5	Average	Possible	Minor	M	2														
4196		10th Line	30th Sideroad	Highway 89	Gravel	No	1110	2014	3	0	7	$5,609	$5,609	$0	$2,221	$2	0	8	8	Good	Unlikely	Minor	L	1														
4338	3399	10th Line	5 SR	County Rd 10	Gravel	No	3069	2019	3	1	2	$4,602	$4,602	$0	$6,138	$2	3	7	7	Good	Unlikely	Minor	L	1														
4339	3398	10th Line	County Rd 10	15 SR	Gravel	No	3090	2019	3	1	2	$4,633	$4,633	$0	$6,180	$2	3	7	7	Good	Unlikely	Minor	L	1														
4176		15 SR	10th Line	9th Line	Gravel	No	1372	2014	3	0	7	$5,710	$5,710	$0	$2,744	$2	0	8	8	Good	Unlikely	Minor	L	1														
4211		15 SR	2nd Line	Amaranth/Mono TL	Gravel	No	1399	2014	3	0	7	$6,896	$6,896	$0	$2,799	$2	0	10	10	Very Good	Rare	Minor	L	1														
4209		15 SR	4th Line	County Rd 11	Gravel	No	1528	2014	3	0	7	$6,985	$6,985	$0	$3,056	$2	0	10	10	Very Good	Rare	Minor	L	1														
4180		15 SR	6th Line	County Rd 12	Gravel	No	1346	2014	3	0	7	$6,152	$6,152	$0	$2,691	$2	0	8	8	Good	Unlikely	Minor	L	1														
4179		15 SR	7th Line	6th Line	Gravel	No	1789	2014	3	0	7	$8,178	$8,178	$0	$3,578	$2	0	5	5	Average	Possible	Minor	M	2														
4178		15 SR	8th Line	7th Line	Gravel	No	1320	2014	3	0	7	$7,628	$7,628	$0	$2,641	$2	0	6	6	Average	Possible	Minor	M	2														
4177		15 SR	9th Line	8th Line	Gravel	No	1441	2014	3	0	7	$5,996	$5,996	$0	$2,881	$2	0	7	7	Good	Unlikely	Minor	L	1														
4175		15 SR	Amaranth/Grand Valley TL	10th Line	Gravel	No	1309	2014	3	0	7	$5,687	$5,687	$0	$2,617	$2	0	5	5	Average	Possible	Minor	M	2														
4210		15 SR	County Rd 11	2nd Line	Gravel	No	1263	2014	3	0	7	$6,223	$6,223	$0	$2,525	$2	0	10	10	Very Good	Rare	Minor	L	1														
4181		15 SR	County Rd 12	4th Line	Gravel	No	1322	2014	3	0	7	$7,044	$7,044	$0	$2,644	$2	0	10	10	Very Good	Rare	Minor	L	1														
4374	3409	25 SR	10th Line	Amaranth / Grand Valley TL	Gravel	No	1319	2020	3	2	1	$3,376	$2,251	$1,125	$2,638	$2	7	6	7	Good	Unlikely	Minor	L	1														
4369	3198	25 SR	2nd Line	County Rd 11	Gravel	No	1254	2020	3	2	1	$3,210	$2,140	$1,070	$2,508	$2	7	7	7	Good	Unlikely	Minor	L	1														
4371	3183	25 SR	4th Line	County Rd 12	Gravel	No	1294	2020	3	2	1	$3,312	$2,208	$1,104	$2,588	$2	7	2	7	Good	Unlikely	Minor	L	1														
4208		25 SR	6th Line	County Rd 12	Gravel	No	1274	2014	3	0	7	$6,708	$6,708	$0	$2,547	$2	0	8	8	Good	Unlikely	Minor	L	1														
4187		25 SR	7th Line	6th Line	Gravel	No	1727	2014	3	0	7	$12,929	$12,929	$0	$3,454	$2	0	6	6	Average	Possible	Minor	M	2														
4372	3411	25 SR	8th Line	9th Line	Gravel	No	1396	2020	3	2	1	$3,573	$2,382	$1,191	$2,792	$2	7	1	7	Good	Unlikely	Minor	L	1														
4206		25 SR	8th Line	7th Line	Gravel	No	1322	2014	3	0	7	$6,962	$6,962	$0	$2,645	$2	0	6	6	Average	Possible	Minor	M	2														
4373	3410	25 SR	9th Line	10th Line	Gravel	No	1387	2020	3	2	1	$3,550	$2,367	$1,183	$2,774	$2	7	8	8	Good	Unlikely	Minor	L	1														
4370	3184	25 SR	County Rd 11	4th Line	Gravel	No	1516	2020	3	2	1	$3,880	$2,587	$1,293	$3,032	$2	7	6	7	Good	Unlikely	Minor	L	1														
4368	3199	25 SR	Mono/ Amaranth TL	2nd Line	Gravel	No	1403	2020	3	2	1	$3,591	$2,394	$1,197	$2,806	$2	7	3	7	Good	Unlikely	Minor	L	1														
4212		2nd Line	15th Sideroad	20th Sideroad	Gravel	No	3063	2015	3	0	6	$10,939	$10,939	$0	$6,126	$2	0	5	5	Average	Possible	Minor	M	2														
4309		2nd Line	20th SR	25th SR	Gravel	No	3061	2018	3	0	3	$10,919	$10,919	$0	$6,122	$2	0	7	7	Good	Unlikely	Minor	L	1														
4310		2nd Line	25th SR	30th SR	Gravel	No	3077	2018	3	0	3	$10,976	$10,976	$0	$6,154	$2	0	5	5	Average	Possible	Minor	M	2														
4366	3249	2nd Line	5 SR	County Rd 10	Gravel	No	3041	2020	3	2	1	$9,973	$6,649	$3,324	$6,082	$2	7	6	7	Good	Unlikely	Minor	L	1														
4367	4283	2nd Line	County Rd 10	15 SR	Gravel	No	3049	2020	3	2	1	$9,999	$6,666	$3,333	$6,098	$2	7	6	7	Good	Unlikely	Minor	L	1														
4365	3191	2nd Line	North of Maples School	5 SR	Gravel	No	2448	2020	3	2	1	$8,028	$5,352	$2,676	$4,896	$2	7	8	8	Good	Unlikely	Minor	L	1														
4398	2359	30 SR	10th Line	9th Line	Gravel	No	1387	2021	3	3	0	$2,443	$814	$1,629	$2,774	$2	10	8	10	Very Good	Rare	Minor	L	1														
4404		30 SR	4th Line	County Rd 11	Gravel	No	1484	2021	3	3	0	$2,614	$871	$1,743	$2,968	$2	10	7	10	Very Good	Rare	Minor	L	1														
4402		30 SR	6th Line	County Rd 12	Gravel	No	1222	2021	3	3	0	$2,152	$717	$1,435	$2,444	$2	10	5	10	Very Good	Rare	Minor	L	1														
4401		30 SR	7th Line	6th Line	Gravel	No	1680	2021	3	3	0	$2,959	$986	$1,973	$3,360	$2	10	8	10	Very Good	Rare	Minor	L	1														
4400		30 SR	8th Line	7th Line	Gravel	No	1348	2021	3	3	0	$2,374	$791	$1,583	$2,696	$2	10	6	10	Very Good	Rare	Minor	L	1														
4399		30 SR	9th LIne	8th Line	Gravel	No	1404	2021	3	3	0	$2,473	$824	$1,649	$2,808	$2	10	8	10	Very Good	Rare	Minor	L	1														
4397		30 SR	Amaranth / Grand Valley TL	10th Line	Gravel	No	1345	2021	3	3	0	$2,369	$790	$1,579	$2,690	$2	10	8	10	Very Good	Rare	Minor	L	1														
4403		30 SR	County Rd 12	4th Line	Gravel	No	1272	2021	3	3	0	$2,240	$747	$1,494	$2,544	$2	10	4	10	Very Good	Rare	Minor	L	1														
4413		4th Line	15 SR	20 SR	Gravel	No	3089	2021	3	3	0	$5,284	$1,761	$3,523	$6,178	$2	10	7	10	Very Good	Rare	Minor	L	1														

Agency ID	Map Link	Road Name	From	To	Surface Material	Boundary Rd	Length (m)	Install Year	Useful Life based on Road Study	Remaining Useful Life (calculation)	Age	Historic Cost	2021 Accumulated Amortization System	2021 Net Book Value System	2021 Replacement Cost/Section	Cost per Linear m	Condition Based On Useful Life from Study	Condition from Study	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score		Rehabilitation Year	Rehabilitation Cost	Extended Life (Years) due to Betterment	Subsequent Improvement Year	Subsequent Improvement Cost	Expected Levels of Service % benefit over Current + Condition better than expected for age	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
4363		4th Line	25 SR	30 SR	Gravel	No	3110	2021	3	3	0	$9,807	$6,538	$3,269	$6,220	$2	10	8	10	Very Good	Rare	Minor	L	1															
4364		4th Line	30 SR	Highway 89	Gravel	No	1115	2020	3	2	1	$3,516	$2,344	$1,172	$2,230	$2	7	3	7	Good	Unlikely	Minor	L	1															
4411		4th Line	5 SR	County Rd 10	Gravel	No	3055	2021	3	3	0	$5,381	$1,794	$3,587	$6,110	$2	10	7	10	Very Good	Rare	Minor	L	1															
4412		4th Line	County Rd 10	15 SR	Gravel	No	3057	2021	3	3	0	$5,384	$1,795	$3,590	$6,114	$2	10	8	10	Very Good	Rare	Minor	L	1															
4340		4th Line	County Rd 109	5 SR	Gravel	No	3086	2019	3	1	2	$6,628	$6,628	$0	$6,172	$2	3	7	7	Good	Unlikely	Minor	L	1															
4362		4th Line	20 SR	25 SR	Gravel	No	3040	2020	3	2	1	$9,586	$6,391	$3,195	$6,080	$2	7	7	7	Good	Unlikely	Minor	L	1															
4199		5 SR	10th Line	9th Line	Gravel	No	1360	2014	3	0	7	$8,751	$8,751	$0	$2,720	$2	0	9	9	Very Good	Rare	Minor	L	1															
4190		5 SR	4th Line	County Rd 11	Gravel	No	1533	2014	3	0	7	$9,866	$9,866	$0	$3,067	$2	0	8	8	Good	Unlikely	Minor	L	1															
4189		5 SR	6th Line	County Rd 12	Gravel	No	1279	2014	3	0	7	$8,231	$8,231	$0	$2,558	$2	0	9	9	Very Good	Rare	Minor	L	1															
4202		5 SR	7th Line	6th Line	Gravel	No	1745	2014	3	0	7	$7,349	$7,349	$0	$3,489	$2	0	9	9	Very Good	Rare	Minor	L	1															
4201		5 SR	8th Line	7th Line	Gravel	No	1271	2014	3	0	7	$8,179	$8,179	$0	$2,542	$2	0	9	9	Very Good	Rare	Minor	L	1															
4200		5 SR	9th Line	8th Line	Gravel	No	1399	2014	3	0	7	$9,003	$9,003	$0	$2,798	$2	0	9	9	Very Good	Rare	Minor	L	1															
4188		5 SR	County Rd 12	4th Line	Gravel	No	1355	2014	3	0	7	$8,720	$8,720	$0	$2,710	$2	0	8	8	Good	Unlikely	Minor	L	1															
4312		6th Line	.4km N. of County Rd 10 Township	15th SR	Gravel	No	3052	2018	3	0	3	$5,473	$5,473	$0	$6,104	$2	0	5	5	Average	Possible	Minor	M	2															
4313		6th Line	15th SR	20th SR	Gravel	No	3089	2018	3	0	3	$5,539	$5,539	$0	$6,178	$2	0	7	7	Good	Unlikely	Minor	L	1															
4359		6th Line	20 SR	25 SR	Gravel	No	3069	2020	3	2	1	$8,598	$5,732	$2,866	$6,138	$2	7	8	8	Good	Unlikely	Minor	L	1															
4360		6th Line	25 SR	30 SR	Gravel	No	3169	2020	3	2	1	$8,878	$5,919	$2,959	$6,338	$2	7	7	7	Good	Unlikely	Minor	L	1															
4361		6th Line	30 SR	Highway 89	Gravel	No	1196	2020	3	2	1	$3,351	$2,234	$1,117	$2,392	$2	7	7	7	Good	Unlikely	Minor	L	1															
3510		6TH LINE	460m north of County Rd 109	5th SR	Gravel	No	2501	2011	15	5	10	$34,480	$22,076	$12,404	$5,002	$2	3	7	7	Good	Unlikely	Minor	L	1															
4311		6th Line	5 SR	County Rd 10	Gravel	No	3050	2018	3	0	3	$8,841	$8,841	$0	$6,100	$2	0	7	7	Good	Unlikely	Minor	L	1															
4224		7th Line	15th Sideroad	20th Sideroad	Gravel	No	3112	2015	3	0	6	$4,851	$4,851	$0	$6,224	$2	0	6	6	Average	Possible	Minor	M	2															
4408		7th Line	20 SR	25 SR	Gravel	No	3085	2021	3	3	0	$5,434	$1,811	$3,622	$6,170	$2	10	7	10	Very Good	Rare	Minor	L	1															
4409		7th Line	25 SR	30 SR	Gravel	No	3090	2021	3	3	0	$5,443	$1,814	$3,628	$6,180	$2	10	8	10	Very Good	Rare	Minor	L	1															
4410		7th Line	30 SR	Highway 89	Gravel	No	1118	2021	3	3	0	$1,969	$656	$1,313	$2,236	$2	10	6	10	Very Good	Rare	Minor	L	1															
4222		7th Line	5th Sideroad	County Road 10	Gravel	No	3167	2015	3	0	6	$8,512	$8,512	$0	$6,334	$2	0	8	8	Good	Unlikely	Minor	L	1															
4337		7th Line	County Rd 10	15 SR	Gravel	No	3060	2019	3	1	2	$7,051	$7,051	$0	$6,120	$2	3	7	7	Good	Unlikely	Minor	L	1															
4221		7th Line	County Road 109	5th Sideroad	Gravel	No	3075	2015	3	0	6	$8,204	$8,204	$0	$6,150	$2	0	6	6	Average	Possible	Minor	M	2															
4314		8th Line	15th SR	20th SR	Gravel	No	3054	2018	3	0	3	$5,350	$5,350	$0	$6,108	$2	0	6	6	Average	Possible	Minor	M	2															
4405		8th Line	20 SR	25 SR	Gravel	No	3076	2021	3	3	0	$5,418	$1,806	$3,612	$6,152	$2	10	8	10	Very Good	Rare	Minor	L	1															
4406		8th Line	25 SR	30 SR	Gravel	No	3063	2021	3	3	0	$5,395	$1,798	$3,597	$6,126	$2	10	7	10	Very Good	Rare	Minor	L	1															
4407		8th Line	30 SR	Highway 89	Gravel	No	1109	2021	3	3	0	$1,953	$651	$1,302	$2,218	$2	10	6	10	Very Good	Rare	Minor	L	1															
4229		8th Line	5th Sideroad	County Road 10	Gravel	No	3088	2015	3	0	6	$10,107	$10,107	$0	$6,176	$2	0	8	8	Good	Unlikely	Minor	L	1															
4230		8th Line	County Road 10	15th Sideroad	Gravel	No	3086	2015	3	0	6	$13,444	$13,444	$0	$6,172	$2	0	7	7	Good	Unlikely	Minor	L	1															
4228		8th Line	County Road 109	5th Sideroad	Gravel	No	3138	2015	3	0	6	$10,270	$10,270	$0	$6,276	$2	0	8	8	Good	Unlikely	Minor	L	1															
2318		9TH LINE	0.3 km S. of 20TH SIDEROAD	20TH SIDEROAD	Gravel	No	298	2007	3	0	14	$586	$586	$0	$596	$2	0	7	7	Good	Unlikely	Minor	L	1															
4345		9th Line	20 SR	25 SR	Gravel	No	3089	2019	3	1	2	$6,115	$6,115	$0	$6,178	$2	3	7	7	Good	Unlikely	Minor	L	1															
4346		9th Line	25 SR	30 SR	Gravel	No	3085	2019	3	1	2	$6,107	$6,107	$0	$6,170	$2	3	5	5	Average	Possible	Minor	M	2															
4347		9th Line	30 SR	Highway 89	Gravel	No	1116	2019	3	1	2	$2,209	$2,209	$0	$2,232	$2	3	8	8	Good	Unlikely	Minor	L	1															
4344		9th Line	5 SR	County Rd 10	Gravel	No	3059	2019	3	1	2	$15,714	$9,272	$6,442	$6,118	$2	3	8	8	Good	Unlikely	Minor	L	1															
4358		9th Line	County Rd 10	15 SR	Gravel	No	3154	2020	3	2	1	$7,450	$4,966	$2,483	$6,308	$2	7	8	8	Good	Unlikely	Minor	L	1															
4343		9th Line	Station St.	5 SR	Gravel	No	1862	2021	3	3	0	$7,842	$4,495	$3,347	$3,724	$2	10	7	10	Very Good	Rare	Minor	L	1															
4356		Amarant/Grand Valley TL	1.4km N of 20th Sideroad	25th Sideroad	Gravel	Yes	1704	2020	3	2	1	$5,593	$3,728	$1,864	$3,408	$2	7	4	7	Good	Unlikely	Minor	L	1															
2471		Amarant/Grand Valley TL	1.6km N of 15th SR	20th SR	Gravel	Yes	1299	2005	3	0	16	$2,467	$2,467	$0	$181,913	$140	0	5	5	Average	Possible	Minor	M	2															
4357		Amarant/Grand Valley TL	15 SR	1.6 km North of 15 SR	Gravel	Yes	1452	2020	3	2	1	$4,765	$3,176	$1,588	$2,904	$2	7	8	8	Good	Unlikely	Minor	L	1															
4332		Amarant/Grand Valley TL	25 SR	30 SR	Gravel	Yes	3080	2019	3	1	2	$5,110	$5,110	$0	$6,160	$2	3	7	7	Good	Unlikely	Minor	L	1															
4333		Amarant/Grand Valley TL	30 SR	Highway 89	Gravel	Yes	916	2019	3	1	2	$3,066	$3,066	$0	$1,832	$2	3	8	8	Good	Unlikely	Minor	L	1															
2305		GRAND VIEW ROAD	COUNTY ROAD 109	END OF GRAND VIEW ROAD	Gravel	No	752	2008	3	0	13	$1,505	$1,505	$0	$1,505	$2	0	8	8	Good	Unlikely	Minor	L	1															

Road Base Inventory tax funded

AMS ID	Road Name	Surface Material	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization System	2021 Net Book Value System	2021 Replacement Cost/Section
				60	6	125	$8,706,483	$5,377,553	$3,328,930	$89,346,337
2670	10th Line - 15th SR - 20th SR (3397 Surface)	Gravel	1854	60	0	167	$ 14,702.00	$ 14,702.00	$ -	$ 1,171,324
2669	10th Line - 20th SR - 25th SR (4198 Surface)	Gravel	1854	60	0	167	$ 14,701.13	$ 14,701.13	$ -	$ 1,171,255
2668	10th Line - 25th SR - 30th SR (4197 Surface)	Gravel	1854	60	0	167	$ 14,762.49	$ 14,762.49	$ -	$ 1,176,144
2711	10th Line - 30th SR - Highway 89 (4196 Surface)	Gravel	1854	60	0	167	$ 5,296.34	$ 5,296.34	$ -	$ 421,965
2672	10th Line - 5th SR - County Rd 10 (3399 Surface)	Gravel	1854	60	0	167	$ 14,640.38	$ 14,640.38	$ -	$ 1,166,415
2671	10th Line - County Rd 10 - 15th SR (3398 Surface)	Gravel	1854	60	0	167	$ 14,740.71	$ 14,740.71	$ -	$ 1,174,408
2683	10th Line - County Rd 109 - Church St. (2404 Surface)	Asphalt	1985	60	23	36	$ 79,603.79	$ 49,089.01	$ 30,514.78	$ 215,168
3558	10th Line Paving - south of Village to County Rd 109	Asphalt	2012	60	50	9	$ 40,167.30	$ 6,694.55	$ 33,472.75	$ 52,409
4081	10th Line Paving - north of Station St north of the Village	Asphalt	2012	60	50	9	$ 28,294.07	$ 4,715.70	$ 23,578.37	$ 36,917
2719	15th SR - 10th Line - 9th Line (4176 Surface)	Gravel	1854	60	0	167	$ 6,545.11	$ 6,545.11	$ -	$ 521,456
2596	15th SR - 2nd Line - Amaranth / Mono TL (4211 Surface)	Gravel	1854	60	0	167	$ 6,675.49	$ 6,675.49	$ -	$ 531,843
2677	15th SR - 4th Line - County Rd 11 (4209 Surface)	Gravel	1854	60	0	167	$ 7,288.18	$ 7,288.18	$ -	$ 580,657
2678	15th SR - 6th Line - County Rd 12 (4180 Surface)	Gravel	1854	60	0	167	$ 6,418.77	$ 6,418.77	$ -	$ 511,391
2715	15th SR - 7th Line - 6th Line (2434 Surface)	Gravel	1854	60	0	167	$ 8,878.69	$ 8,878.69	$ -	$ 707,375
2716	15th SR - 8th Line - 7th Line (4178 Surface)	Gravel	1854	60	0	167	$ 6,298.72	$ 6,298.72	$ -	$ 501,826
2717	15th SR - 9th Line - 8th Line (4177 Surface)	Gravel	1854	60	0	167	$ 6,871.46	$ 6,871.46	$ -	$ 547,456
2718	15th SR - Amaranth / Grand Valley TL - 10th Line (4175 Surface)	Gravel	1854	60	0	167	$ 6,241.90	$ 6,241.90	$ -	$ 497,299
2597	15th SR - County Rd 11 - 2nd Line (4210 Surface)	Gravel	1854	60	0	167	$ 6,022.92	$ 6,022.92	$ -	$ 479,853
2714	15th SR - County Rd 12 - 4th Line (4181 Surface)	Gravel	1854	60	0	167	$ 6,307.06	$ 6,307.06	$ -	$ 502,490
2569	20 SR from 9th Line to .6km E of 9th Line (2392 Surface)	Asphalt	1969	60	7	52	$ 31,755.81	$ 28,050.96	$ 3,704.85	$ 275,944
2579	20th SR from .6km E. of 9th Line to 8th Line (2402 Surface)	Asphalt	1969	60	7	52	$ 37,606.04	$ 33,218.69	$ 4,387.35	$ 326,779
2650	20th SR from 10th Line to 9th Line (2370 Surface)	Asphalt	1969	60	7	52	$ 70,072.05	$ 61,897.00	$ 8,175.05	$ 608,895
2595	20th SR from 2nd Line to Amaranth / Mono TL (2377 Surface)	Asphalt	1989	60	27	32	$ 281,594.08	$ 154,876.74	$ 126,717.34	$ 616,198
2593	20th SR from 4th Line to County Rd 11 (2375 Surface)	Asphalt	1963	60	1	58	$ 63,072.54	$ 62,021.36	$ 1,051.18	$ 669,253
2676	20th SR from 5th Line to 4th Line (2374 Surface)	Asphalt	1963	60	1	58	$ 54,026.74	$ 53,126.30	$ 900.44	$ 573,267
2675	20th SR from 6th Line to County Rd 12 (5th Line) (2372 Surface)	Asphalt	1969	60	7	52	$ 63,850.99	$ 56,401.70	$ 7,449.29	$ 554,836
2674	20th SR from 7th Line to 6th Line (2372 Surface)	Asphalt	1969	60	7	52	$ 86,607.52	$ 76,503.32	$ 10,104.20	$ 752,580
2651	20th SR from 8th Line to 7th Line (2371 Surface)	Asphalt	1969	60	7	52	$ 67,737.79	$ 59,835.04	$ 7,902.75	$ 588,611
2649	20th SR from Amaranth / East Luther TL to 10th Line (2369 Surface)	Asphalt	1969	60	7	52	$ 66,835.15	$ 59,037.72	$ 7,797.43	$ 580,767
2594	20th SR from County Rd 11 to 2nd Line (2376 Surface)	Asphalt	1989	60	27	32	$ 252,470.84	$ 138,858.98	$ 113,611.86	$ 552,469
2636	25th SR - .1km east of County Rd 11 - 2nd Line (2478 Surface)	Gravel	1854	60	0	167	$ 5,208.26	$ 5,208.26	$ -	$ 414,948
2641	25th SR - 10th Line - 9th Line (4204 Surface)	Gravel	1854	60	0	167	$ 6,618.34	$ 6,618.34	$ -	$ 527,290
2648	25th SR - 2nd Line - Amaranth / Mono TL (2368 Surface)	Gravel	1854	60	0	167	$ 6,693.42	$ 6,693.42	$ -	$ 533,272
2647	25th SR - 4th Line - County Rd 11 (2367 Surface)	Gravel	1854	60	0	167	$ 7,233.44	$ 7,233.44	$ -	$ 576,296
2645	25th SR - 6th Line - County Rd 12 (4208 Surface)	Gravel	1854	60	0	167	$ 6,075.39	$ 6,075.39	$ -	$ 484,032
2644	25th SR - 7th Line - 6th Line (4187 Surface)	Gravel	1854	60	0	167	$ 8,236.66	$ 8,236.66	$ -	$ 656,224
2643	25th SR - 8th Line - 7th Line (4206 Surface)	Gravel	1854	60	0	167	$ 6,307.24	$ 6,307.24	$ -	$ 502,504
2642	25th SR - 9th Line - 8th Line (4205 Surface)	Gravel	1854	60	0	167	$ 6,658.22	$ 6,658.22	$ -	$ 530,468
2640	25th SR - Amaranth / Grand Valley TL - 10th Line (4203 Surface)	Gravel	1854	60	0	167	$ 6,291.71	$ 6,291.71	$ -	$ 501,268
2646	25th SR - County Rd 12 - 4th Line (2366 Surface)	Gravel	1854	60	0	167	$ 6,174.66	$ 6,174.66	$ -	$ 491,942
2687	2nd line from .6km N of County rd 109 to 5th SR (3193 Surface)	Gravel	1980	60	18	41	$ 275,936.92	$ 193,155.85	$ 82,781.07	$ 1,078,293
2682	2ND LINE from .8km N of 20th SR to 25th SR (3253 Surface)	Gravel	1971	60	9	50	$ 119,573.50	$ 101,637.46	$ 17,936.04	$ 976,085
2631	2nd Line from 1.9km N of County RD 10 to 15th SR (3251 Surface)	Gravel	1854	60	0	167	$ 5,522.28	$ 5,522.28	$ -	$ 439,966
2558	2ND LINE from 15th SR to 20th SR (4212 Surface)	Gravel	1854	60	0	167	$ 14,610.78	$ 14,610.78	$ -	$ 1,164,057
2566	2ND LINE from 20th SR to .8km N of 20th SR (3255 Surface)	Gravel	1854	60	0	167	$ 4,034.32	$ 4,034.32	$ -	$ 321,418
2559	2nd Line from 25th SR to 30th SR (4214 Surface)	Gravel	1971	60	9	50	$ 166,087.32	$ 141,174.21	$ 24,913.11	$ 1,355,780
2557	2ND LINE from 5th SR to County Rd 10 (3249 Surface)	Gravel	1854	60	0	167	$ 14,554.57	$ 14,554.57	$ -	$ 1,159,578
2632	2ND LINE from County Rd 10 to 1.9km N of County RD 10 (3250 Surface)	Gravel	1854	60	0	167	$ 9,021.42	$ 9,021.42	$ -	$ 718,746

Road Base Inventory tax funded

AMS ID	Road Name	Surface Material	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization System	2021 Net Book Value System	2021 Replacement Cost/Section
2688	2nd Line from County Rd 109 to .6km N of County Rd 109 (2464 Surface)	Asphalt	1980	60	18	41	$ 70,635.51	$ 49,444.87	$ 21,190.64	$ 276,026
3557	30th SR - 500m of Base reconstruction west of County Rd 11	Gravel	2012	60	50	9	$ 29,878.54	$ 4,979.79	$ 24,898.75	$ 38,985
2685	30th SR from .7km E of 2nd Line to Amaranth / Mono TL (2406 Surface)	Asphalt	2001	60	39	20	$ 180,998.51	$ 63,349.46	$ 117,649.05	$ 304,854
2639	30th SR from 10th Line to 9th Line (4174 Surface)	Gravel	1854	60	0	167	$ 6,617.82	$ 6,617.82	$ -	$ 527,249
2712	30th SR from 2nd Line to .7km E of 2nd Line (2431 Surface)	Asphalt	2001	60	39	20	$ 183,155.37	$ 64,104.38	$ 119,050.99	$ 308,487
2552	30th SR from 4th Line to County Rd 11 (4191 Surface)	Gravel	1854	60	0	167	$ 4,694.63	$ 4,694.63	$ -	$ 564,143
2619	30th SR from 6th Line to County Rd 12 (5th Line) - (4186 Surface)	Gravel	1854	60	0	167	$ 5,828.80	$ 5,828.80	$ -	$ 464,387
2553	30th SR from 7th Line to 6th Line (4207 Surface)	Gravel	1854	60	0	167	$ 6,068.35	$ 6,068.35	$ -	$ 483,472
2621	30th SR from 8th Line to 7th Line (4171 Surface)	Gravel	1854	60	0	167	$ 6,429.93	$ 6,429.93	$ -	$ 512,279
2637	30th SR from 9th Line to 8th Line (4172 Surface)	Gravel	1854	60	0	167	$ 6,695.13	$ 6,695.13	$ -	$ 533,409
2638	30th SR from Amaranth / East Luther TL to 10th Line (4173 Surface)	Gravel	1854	60	0	167	$ 6,415.56	$ 6,415.56	$ -	$ 511,135
2620	30th SR from County Rd 12 (5th Line) to 4th Line (4185 Surface)	Gravel	1854	60	0	167	$ 8,012.36	$ 8,012.36	$ -	$ 638,353
2680	4th Line from 1.2km N. of 15th SR to 20thSR (2386 Surface)	Gravel	1972	60	10	49	$ 100,060.38	$ 83,383.63	$ 16,676.75	$ 777,883
2681	4th Line from 15th SR to 1.2km N. of 15th SR (2387 Surface)	Gravel	1972	60	10	49	$ 73,119.38	$ 60,932.83	$ 12,186.55	$ 568,440
2554	4th Line from 20th SR to 25th SR (3418 Surface)	Gravel	1978	60	16	43	$ 284,846.63	$ 208,887.51	$ 75,959.12	$ 1,339,439
2556	4th Line from 25th SR to 30th SR (3417 Surface)	Gravel	1978	60	16	43	$ 291,337.08	$ 213,647.21	$ 77,689.87	$ 1,369,959
2555	4th Line from 30th SR to Highway 89 (3245 Surface)	Gravel	1978	60	16	43	$ 107,254.42	$ 78,653.22	$ 28,601.20	$ 504,344
2614	4TH LINE from 5th SR to County Rd 10 (4216 Surface)	Gravel	1972	60	10	49	$ 173,144.48	$ 144,287.05	$ 28,857.43	$ 1,346,048
2615	4th Line from County Rd 10 to 15th SR (4217 Surface)	Gravel	1972	60	10	49	$ 173,228.50	$ 144,357.07	$ 28,871.43	$ 1,346,701
2613	4TH LINE from County Rd 109 to 5th SR (4215 Surface)	Gravel	1972	60	10	49	$ 174,893.20	$ 145,744.35	$ 29,148.85	$ 1,359,643
2628	5th SR - .1km east of Amaranth / Grand Valley TL - 10th Line (4120 Surface)	Asphalt	1987	60	25	34	$ 207,971.48	$ 121,316.69	$ 86,654.79	$ 508,175
2580	5th SR - .7km East of 2nd Line - Amaranth / Mono TL	Asphalt	1985	60	23	36	$ 112,130.95	$ 69,147.42	$ 42,983.53	$ 303,089
2652	5th SR - 10th Line - 9th Line (4199 Surface)	Gravel	1854	60	0	167	$ 6,486.78	$ 6,486.78	$ -	$ 516,808
2570	5th SR - 2nd Line - .7km East of 2nd Line	Asphalt	1985	60	23	36	$ 114,812.92	$ 70,801.31	$ 44,011.61	$ 310,338
2721	5th SR - 4th Line - County Rd 11 (4190 Surface)	Gravel	1854	60	0	167	$ 7,314.11	$ 7,314.11	$ -	$ 582,723
2723	5th SR - 6th Line - County Rd 12 (4189 Surface)	Gravel	1854	60	0	167	$ 6,101.97	$ 6,101.97	$ -	$ 486,150
2689	5th SR - 7th Line - 6th Line (4202 Surface)	Gravel	1854	60	0	167	$ 8,321.40	$ 8,321.40	$ -	$ 662,975
2690	5th SR - 8th Line - 7th Line (4201 Surface)	Gravel	1854	60	0	167	$ 6,063.75	$ 6,063.75	$ -	$ 483,106
2691	5th SR - 9th Line - 8th Line (4200 Surface)	Gravel	1854	60	0	167	$ 6,673.95	$ 6,673.95	$ -	$ 531,721
2627	5th SR - Amaranth / Grand Valley TL - .1km east of Amaranth / Grand Valley TL (4120 Surface)	Gravel	1987	60	25	34	$ 29,285.33	$ 17,083.12	$ 12,202.21	$ 71,558
2722	5th SR - County 12 - 4th Line (4188 Surface)	Gravel	1854	60	0	167	$ 6,464.00	$ 6,464.00	$ -	$ 514,994
2720	5th SR - County Rd 11 - 2nd Line (2439 Surface)	Asphalt	1990	60	28	31	$ 268,235.31	$ 143,058.84	$ 125,176.47	$ 560,650
2686	6th Line - .4km North of County Rd 10 - 15th SR	Gravel	1854	60	0	167	$ 12,441.84	$ 12,441.84	$ -	$ 991,255
2603	6th Line - 15th SR - 20th SR (4220 Surface)	Gravel	1854	60	0	167	$ 14,735.56	$ 14,735.56	$ -	$ 1,173,998
2604	6th Line - 20th SR - 25th SR (3235 Surface)	Gravel	1854	60	0	167	$ 14,637.64	$ 14,637.64	$ -	$ 1,166,196
2606	6th Line - 25th SR - 30th SR (3236 Surface)	Gravel	1854	60	0	167	$ 15,115.22	$ 15,115.22	$ -	$ 1,204,246
2605	6th Line - 30th SR - Highway 89 (3237 Surface)	Gravel	1854	60	0	167	$ 5,692.23	$ 5,692.23	$ -	$ 453,506
2602	6th Line - 5th SR - County Rd 10 (4218 Surface)	Gravel	1854	60	0	167	$ 14,550.59	$ 14,550.59	$ -	$ 1,159,261
2692	6th Line - County Rd 10 - .4km North of County RD 10 (2461 Surface)	Asphalt	1991	60	29	30	$ 97,404.53	$ 50,325.68	$ 47,078.85	$ 195,439
2601	6th Line - County Rd 109 - 5th SR (3510 Surface)	Gravel	1854	60	12	167	$ 113,179.64	$ 53,746.81	$ 59,432.83	$ 1,304,583
3562	6th Line Paving - County Rd 10 - north of Township Office	Asphalt	2012	60	50	9	$ 8,313.31	$ 1,385.56	$ 6,927.75	$ 10,847
2589	7th Line - 15th SR - 20th SR (4224 Surface)	Gravel	1854	60	0	167	$ 14,844.43	$ 14,844.43	$ -	$ 1,182,672
2588	7th Line - 20th SR - 25th SR (4225 Surface)	Gravel	1854	60	0	167	$ 14,714.96	$ 14,714.96	$ -	$ 1,172,357
2587	7th Line - 25th SR - 30th SR (4226 Surface)	Gravel	1854	60	0	167	$ 14,736.99	$ 14,736.99	$ -	$ 1,174,112
2586	7th Line - 30th SR - Highway 89 (4227 Surface)	Gravel	1854	60	0	167	$ 5,330.69	$ 5,330.69	$ -	$ 424,702

Road Base Inventory tax funded

AMS ID	Road Name	Surface Material	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization System	2021 Net Book Value System	2021 Replacement Cost/Section
2592	7th Line - 5th SR - County Rd 10 (4222 Surface)	Gravel	1854	60	0	167	$ 15,105.41	$ 15,105.41	$ -	$ 1,203,464
2590	7th Line - County Rd 10 - 15th SR (4223 Surface)	Gravel	1854	60	0	167	$ 14,596.93	$ 14,596.93	$ -	$ 1,162,953
2591	7th Line - County Rd 109 - 5th SR (4221 Surface)	Gravel	1854	60	0	167	$ 14,669.87	$ 14,669.87	$ -	$ 1,168,765
2582	8TH LINE from 15th SR to 20SR (4231 Surface)	Gravel	1854	60	0	167	$ 14,567.76	$ 14,567.76	$ -	$ 1,160,629
2583	8TH LINE from 20th SR to 25th SR (4184 Surface)	Gravel	1854	60	0	167	$ 14,671.37	$ 14,671.37	$ -	$ 1,168,884
2585	8th Line from 25th SR to 30 SR (4183 Surface)	Gravel	1854	60	0	167	$ 14,612.67	$ 14,612.67	$ -	$ 1,164,207
2584	8TH LINE from 30th SR to Highway 89 (4182 Surface)	Gravel	1854	60	0	167	$ 5,288.10	$ 5,288.10	$ -	$ 421,309
2565	8th Line from 5SR to County Rd 10 (4229 Surface)	Gravel	1854	60	0	167	$ 14,731.65	$ 14,731.65	$ -	$ 1,173,686
2581	8TH LINE from County Rd 10 to 15th SR (4230 Surface)	Gravel	1854	60	0	167	$ 14,719.54	$ 14,719.54	$ -	$ 1,172,722
2564	8TH LINE from County Rd 109 to 5th SR (4228 Surface)	Gravel	1854	60	0	167	$ 14,967.56	$ 14,967.56	$ -	$ 1,192,482
2560	9th Line from .3km S of 20th SR to 20th SR (2318 Surface)	Gravel	1854	60	0	167	$ 1,420.88	$ 1,420.88	$ -	$ 113,203
2561	9TH LINE from 20SR to 25th SR (3179 Surface)	Gravel	1854	60	0	167	$ 14,739.08	$ 14,739.08	$ -	$ 1,174,278
2563	9TH LINE from 25th SR to 30SR (3177 Surface)	Gravel	1976	60	14	45	$ 247,558.42	$ 189,794.77	$ 57,763.65	$ 1,359,566
2562	9TH LINE from 30th SR to Highway 89 (3175 Surface)	Gravel	1854	60	0	167	$ 5,325.65	$ 5,325.65	$ -	$ 424,300
2600	9TH LINE from 5th SR to County Rd 10 (3402 Surface)	Gravel	1854	60	0	167	$ 14,590.01	$ 14,590.01	$ -	$ 1,162,402
2599	9TH LINE from County Rd 10 to 15th SR (3408 Surface)	Gravel	1854	60	0	167	$ 14,760.27	$ 14,760.27	$ -	$ 1,175,966
2673	9th Line from County Rd 109 to Station St (3514 Surface)	Asphalt	1993	60	31	28	$ 272,838.65	$ 131,872.01	$ 140,966.64	$ 534,017
2598	9TH LINE from Station ST to 5th SR (3401 Surface)	Gravel	1854	60	0	167	$ 8,883.99	$ 8,883.99	$ -	$ 707,797
2664	Amaranth / Grand Valley TL - .6km North of 20th SR - 1.4km North of 20th SR (2380 Surface)	NULL	2006	60	44	15	$ 201,580.12	$ 53,754.71	$ 147,825.41	$ 306,891
2665	Amaranth / Grand Valley TL - 1.4km north of 20th SR - 25th SR (4193 Surface)	Gravel	1854	60	0	167	$ 8,127.21	$ 8,127.21	$ -	$ 647,503
2629	Amaranth / Grand Valley TL - 1.6km North of 15th SR - 20th SR (2471 Surface)	Asphalt	2004	60	42	17	$ 363,229.27	$ 108,968.77	$ 254,260.50	$ 572,456
2630	Amaranth / Grand Valley TL - 15th SR - 1.6 km north of 15th SR (4192 Surface)	Gravel	1854	60	0	167	$ 8,385.83	$ 8,385.83	$ -	$ 668,108
2679	Amaranth / Grand Valley TL - 20th SR - .7km North of 20th SR (2385 Surface)	Asphalt	2004	60	42	17	$ 189,984.72	$ 56,995.40	$ 132,989.32	$ 299,419
2710	Amaranth / Grand Valley TL - 25th SR - 30th SR (4194 Surface)	Gravel	1854	60	0	167	$ 14,691.32	$ 14,691.32	$ -	$ 1,170,473
2709	Amaranth / Grand Valley TL - 30th SR - Highway 89 (4195 Surface)	Gravel	1854	60	0	167	$ 4,369.23	$ 4,369.23	$ -	$ 348,101
A2634	Amaranth / Mono TL - .3km South of 20th SR - 20th SR (2476 Surface)	Asphalt	2009	60	47	12	$ 9,181.00	$ 1,989.24	$ 7,191.76	$ 13,483
A2626	Amaranth / Mono TL - .6km North of 25th SR - 30th SR (2468 Surface)	Asphalt	2009	60	47	12	$ 82,100.70	$ 17,788.49	$ 64,312.21	$ 120,568
2713	Amaranth / Mono TL - .6km North of 30th SR - Highway 89 (2432 Surface)	Asphalt	1971	60	9	50	$ 32,059.51	$ 27,250.59	$ 4,808.92	$ 261,704
A2567	Amaranth / Mono TL - 20th SR - 25th SR (3259 Surface)	Asphalt	2009	60	47	12	$ 20,444.17	$ 4,429.60	$ 16,014.57	$ 30,023
2625	Amaranth / Mono TL - 25th SR - .6km North of 25th SR (3258 Surface)	Asphalt	1854	60	0	167	$ 2,839.78	$ 2,839.78	$ -	$ 226,248
2633	Amaranth / Mono TL - 30th SR - .6km North of 30th SR (2475 Surface)	Asphalt	2001	60	39	20	$ 156,586.41	$ 54,805.21	$ 101,781.20	$ 263,737
2550	Cedar Place from Maplewood Dr to end of Cedar Place	Asphalt	1971	60	9	50	$ 15,969.90	$ 13,574.42	$ 2,395.48	$ 130,363
2549	Cherrywood Place from Maplewood Dr to end of Cherrywood Place (2307 surface)	Asphalt	1971	60	9	50	$ 16,203.87	$ 13,773.29	$ 2,430.58	$ 132,273
2654	Church St - 10th Line - Mill St (2448 Surface)	Asphalt	2003	60	41	18	$ 99,619.55	$ 31,546.22	$ 68,073.33	$ 159,501
2572	Crago Rd - 5th SR - McKibbon Avenue (4257 Surface)	Asphalt	1979	60	17	42	$ 12,699.08	$ 9,101.00	$ 3,598.08	$ 54,625
2666	Crago Rd - Houghton St - end of Cargo Rd (4257 Surface)	Asphalt	1979	60	17	42	$ 23,188.43	$ 16,618.36	$ 6,570.07	$ 99,745
2698	Crago Rd - McKibbon - Houghton (4257 Surface)	Asphalt	1979	60	17	42	$ 23,951.98	$ 17,165.59	$ 6,786.39	$ 103,030
2655	David St - Mill St - Main St (2458 Surface)	Asphalt	1984	60	22	37	$ 14,245.29	$ 9,022.00	$ 5,223.29	$ 40,015
2608	Devonleigh Drive - 30th SR - 30th SR (2450 Surface)	Asphalt	2001	60	39	20	$ 167,655.43	$ 58,679.42	$ 108,976.01	$ 282,381
2659	Evans Avenue - James St - end (2426 Surface)	Asphalt	1985	60	23	36	$ 4,833.35	$ 2,980.59	$ 1,852.76	$ 13,064
2660	Evans Avenue - James St - Henry St (2427 Surface)	Asphalt	1985	60	23	36	$ 11,791.61	$ 7,271.52	$ 4,520.09	$ 31,873
2618	Grand View Rd - County Rd 109 - end of Grand View Rd (2305 Surface)	Gravel	1854	60	0	167	$ 3,588.31	$ 3,588.31	$ -	$ 285,885

Road Base Inventory tax funded

AMS ID	Road Name	Surface Material	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization System	2021 Net Book Value System	2021 Replacement Cost/Section
2700	Henry St. - Evans St. - end of Henry St. (2412 Surface)	Asphalt	1985	60	23	36	$ 10,802.14	$ 6,661.34	$ 4,140.80	$ 29,198
2701	Henry St. - Main St. - Evans St. (2413 Surface)	Asphalt	1985	60	23	36	$ 24,049.61	$ 14,830.62	$ 9,218.99	$ 65,006
2702	Henry St. - Mill St. - Main St. (2414 Surface)	Asphalt	1985	60	23	36	$ 14,964.37	$ 9,228.06	$ 5,736.31	$ 40,449
2696	Hornett Lane - Menary Drive - County Rd 10 (2408 Surface)	Asphalt	1988	60	26	33	$ 14,970.33	$ 8,483.20	$ 6,487.13	$ 34,819
2699	Hughson - McKibbon - Amaranth / Mono TL (4258 Surface)	Asphalt	1979	60	17	42	$ 25,327.28	$ 18,151.21	$ 7,176.07	$ 108,945
2573	Hughson St - Cargo - McKibbon (4258 Surface)	Asphalt	1979	60	17	42	$ 41,419.20	$ 29,683.76	$ 11,735.44	$ 178,165
2653	James St - Evans Avenue - end of James St (2447 Surface)	Asphalt	1985	60	23	36	$ 43,661.25	$ 26,924.46	$ 16,736.79	$ 118,016
2609	MAIN STREET - David St - Henry St (2451 Surface)	Asphalt	1984	60	22	37	$ 31,029.04	$ 19,651.72	$ 11,377.32	$ 87,160
2663	Maplewood Drive - Amaranth / Mono TL - Cedar Place (2430 Surface)	Asphalt	1971	60	9	50	$ 20,152.79	$ 17,129.88	$ 3,022.91	$ 164,508
2662	Maplewood Drive - Cedar Place - Sylvanwood Rd (2429 Surface)	Asphalt	1971	60	9	50	$ 10,671.22	$ 9,070.53	$ 1,600.69	$ 87,110
2578	Maplewood Drive - Cherrywood Place - Woodland Rd (2401 Surface)	Asphalt	1971	60	9	50	$ 15,053.39	$ 12,795.38	$ 2,258.01	$ 122,882
2661	Maplewood Drive - Sylvanwood Rd - Cherrywood Place (2428 Surface)	Asphalt	1971	60	9	50	$ 4,796.18	$ 4,076.77	$ 719.41	$ 39,151
2577	Maplewood Drive - Woodland Rd - end of Maplewood Drive (2400 Surface)	Asphalt	1971	60	9	50	$ 7,144.52	$ 6,072.85	$ 1,071.67	$ 58,321
2548	Mckibbon Ave from Crago Rd to Hughson St (4259 surface)	Asphalt	1979	60	17	42	$ 66,837.03	$ 47,899.87	$ 18,937.16	$ 287,500
2695	Menary Drive - County Rd 12 - Hornett Lane (2407 Surface)	Asphalt	1988	60	26	33	$ 39,630.04	$ 22,457.02	$ 17,173.02	$ 92,173
2658	Mill St - Church St - David St (2425 Surface)	Asphalt	1985	60	23	36	$ 40,327.58	$ 24,868.71	$ 15,458.87	$ 109,005
2576	Mill St - David St - Station St (2399 Surface)	Asphalt	1970	60	8	51	$ 7,459.22	$ 6,464.66	$ 994.56	$ 62,667
2622	Mill St - Station St - Henry St (2422 Surface)	Asphalt	1970	60	8	51	$ 3,472.69	$ 3,009.68	$ 463.01	$ 29,175
2624	Mill St. - Church St - Church St (2424 Surface)	Asphalt	1970	60	8	51	$ 16,157.29	$ 14,003.00	$ 2,154.29	$ 135,741
2607	Peter Court - Peter St - end of Peter Court (3044 Surface)	Asphalt	2006	60	44	15	$ 48,740.11	$ 12,997.37	$ 35,742.74	$ 74,203
2611	Peter St - Russel Hill Rd - Peter Court (2420 Surface)	Asphalt	1994	60	32	27	$ 76,774.56	$ 35,828.16	$ 40,946.40	$ 150,108
2612	Peter St - St. John St - Russel Hill Rd (2421 Surface)	Asphalt	1994	60	32	27	$ 28,371.08	$ 13,239.83	$ 15,131.25	$ 55,471
2706	Russel Hill Rd - Peter St - Peter St (2418 Surface)	Asphalt	1994	60	32	27	$ 102,529.23	$ 47,846.97	$ 54,682.26	$ 200,463
2610	Russel Hill Rd - St. John Street - Peter St (2419 Surface)	Asphalt	1994	60	32	27	$ 63,830.23	$ 29,787.46	$ 34,042.77	$ 124,799
2697	Shannon Court - 3rd Line - end of Shannon Court (2409 Surface)	Asphalt	1991	60	29	30	$ 144,249.05	$ 74,528.67	$ 69,720.38	$ 289,431
2705	St. John St. - Russel Hill Road - Peter St. (2417 Surface)	Asphalt	1994	60	32	27	$ 108,130.42	$ 50,460.83	$ 57,669.59	$ 211,414
2704	St. John St. - Station St. - Russel Hill Road (2416 Surface)	Asphalt	1994	60	32	27	$ 43,007.28	$ 20,070.08	$ 22,937.20	$ 84,087
3559	Station St (86m) Paving - east of curve	Asphalt	2012	60	50	9	$ 7,078.66	$ 1,179.80	$ 5,898.86	$ 9,236
3182	Station Street (82m) base reconstruction - east of curve	Asphalt	2012	60	50	9	$ 4,454.34	$ 742.40	$ 3,711.94	$ 5,812
2684	Station Street from .3km E of Peter St to 9th Line (4119 Surface)	Asphalt	2003	60	41	18	$ 147,560.85	$ 46,727.62	$ 100,833.23	$ 236,260
2574	Station Street from 19th Line/Mill St to St John St	Asphalt	1988	60	26	33	$ 69,940.64	$ 39,633.05	$ 30,307.59	$ 162,671
2703	Station Street from Peter St to .3km E of Peter St (2415 Surface)	Asphalt	2003	60	41	18	$ 63,691.18	$ 20,168.88	$ 43,522.30	$ 137,806
2575	Station Street from St John St to Peter St	Asphalt	1988	60	26	33	$ 53,225.40	$ 30,161.06	$ 23,064.34	$ 123,794
2617	Sylvanwood Rd - Highway 89 - Maplewood Drive (2304 Surface)	Asphalt	1971	60	9	50	$ 14,007.11	$ 11,906.03	$ 2,101.08	$ 114,341
2667	Woodland Road - Maplewood Drive - end of Woodland Drive (2452 Surface)	Asphalt	1971	60	9	50	$ 23,795.23	$ 20,225.97	$ 3,569.26	$ 194,242

Bridge Inventory - tax funded

FIXED ASSET ID	OSIM Bridge No	Asset Name	Structure Type	Load Posting	Recommended Posting (OSIM)	No of Spans	Deck Length (m)	Deck Width (m)	Install Year	TCA Useful Life	Remaining Useful Life	Age	Historic Cost	2021 Accumulated Amortization	2021 Net Book Value	Replacement Cost 2021	Condition Based On Useful Life	Condition Estimate from 2020 Inspection Information	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure
										70	32	45	$ 7,009,904	$ 1,804,018	$ 5,205,887	$ 33,022,500			7.3			
2300	1	Bridge 1 MTO(4-106) - 6th Line - just north of Highway 109	I-beam or Girders			1	12.4	9.95	2007	75	61	14	345,958	$69,192	$276,766	$1,310,000	8	9.5	10	Very Good	Rare	Major
2299	2	Bridge 2 MTO(4-105) - 7th Line - north of Highway 109	Guardian Bridge			1	16.9	8	2022	50	50	0	1,000,000	$0	$1,000,000	$1,045,000	10	9.5	10	Very Good	Rare	Major
2293	3	Bridge 3 MTO(4-104) - 8th Line - just north of old rail line now trail	T-Beam		16	1	9.3	5.4	1920	75	0	101	$25,058	$25,058	$0	$990,000	0	6.0	6	Average	Possible	Major
2294	4	Bridge 4 MTO(4-103) - 9th Line - just north of Station St.	Arch Culvert			1	10.5	10.2	1995	50	24	26	161,595	$58,174	$103,421	$605,000	5	7.0	7	Good	Unlikely	Major
2302	5	Bridge 5 MTO(4-155) - Station St / Mill St	Box Beams of Girders			2	20.8/20.8	8	1980	75	34	41	526,120	$294,627	$231,493	$3,305,000	5	7.0	7	Good	Unlikely	Major
2292	6	Bridge 6 MTO(4-101) - 10th Line - south of 5th SR	I-beam or Girders			3	20.5	8.6	1968	75	22	53	755,604	$278,832	$476,772	$5,405,000	3	9.5	10	Very Good	Rare	Major
2291	7	Bridge 7 MTO(4-102) - 5th SR - east of 10th Line	Rigid Frame, Vertical Legs			1	18.3	7.5	1991	75	45	30	453,778	$187,562	$266,216	$1,520,000	6	7.5	8	Good	Unlikely	Major
2295	8	Bridge 8 MTO(4-66) - 9th Line - just north of 5th SR	Rigid Frame, Vertical Legs			1	18	7.5	1993	75	47	28	465,186	$179,872	$285,314	$1,520,000	6	7.5	8	Good	Unlikely	Major
2298	9	Bridge 9 MTO(4-65) ** - 8th Line - just north of 10th SR	I-beam or Girders			1	26	8	2008	75	62	13	903,765	$168,703	$735,062	$2,360,000	8	9.0	9	Very Good	Rare	Major
2296	10	Bridge 10 MTO(4-72) - 7th Line - north of 10th SR	Through Girder	16	16	1	15.2	4.9	1900	75	0	121	$16,233	$16,233	$0	$1,467,500	0	4.0	4	Poor	Likely	Major
2289	11	Bridge 11 MTO(4-73) - 15th SR - west of 6th Line	Through Girder	12	12	1	15.2	4.6	1900	75	0	121	16,115	$16,115	$0	$1,467,500	0	4.0	4	Poor	Likely	Major
2479	12	Bridge 12 MTO(4-76) - 6th Line - just south of 15th SR	Bowstring Arch	12	12	1	15.2	5.5	1910	75	0	111	20,256	$20,256	$0	$1,467,500	0	4.5	5	Average	Possible	Major
2480	13	Bridge 13 MTO(4-75) - 6th Line - just north of 15th SR	Bowstring Arch	14	14	1	15.2	3.9	1910	75	0	111	15,360	$15,360	$0	$1,467,500	0	4.0	4	Poor	Likely	Major
2481	14	Bridge 14 MTO(4-74) - 6th Line - second bridge north of 15th SR	Rigid Frame, Vertical Legs			1	14	8	2000	75	54	21	431,256	$126,502	$304,754	$1,310,000	7	9.0	9	Very Good	Rare	Major
4303	15	Bridge 15 MTO(4-71) - 7th Line - 15 SR to 20 SR (WIP original ID 2297)	Closed										16,548	$16,548	$0	$1,467,500						
2482	16	Bridge 16 MTO(4-69) - 7th Line - south of 20th SR	Cast in Place Box Culvert			2	8 / 8	12.1	1988	75	42	33	303,072	$137,393	$165,679	$1,415,000	6	8.5	9	Very Good	Rare	Major
4308	17	Bridge 17 - 20th SR east of 7th Line MTO(4-70)	I-beam or Girders			1	23.2	9.2	2018	75	72	3	979,045	$47,530	$931,515	$1,940,000	10	9.5	10	Very Good	Rare	Major
2290	18	Bridge 18 MTO(4-50) - 25th SR - west of 6th Line	Rigid Frame, Vertical Legs			1	12	8	2007	75	61	14	340,527	$68,105	$272,422	$1,205,000	8	9.5	10	Very Good	Rare	Major
2301	19	Bridge 19 MTO(4-49) - 6th Line - just north of 25th SR	Rigid Frame, Vertical Legs			1	8	8	2002	75	56	19	145,291	$38,744	$106,547	$990,000	7	9.0	9	Very Good	Rare	Major
2484	20	Bridge 20 MTO(4-78) - 4th Line - south of 15th SR	Arch Culvert			2	3.8 / 3.8	8	1980	50	9	41	56,370	$31,567	$24,803	$715,000	2	5.0	5	Average	Possible	Major
4260		Arch Culvert - 15th Sideroad for Drain #20	Arch Culvert			0	n/a	0	2015	50	44	6	32,769	$7,646	$25,123	$50,000	9		9	Very Good	Rare	Major

Bridge Inventory - tax funded

FIXED ASSET ID	OSIM Bridge No	Asset Name	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score		Proposed Rehabilitation Cost (2021 $)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current + Condition better then expected for age	Revised Levels Service With Risk Replacement Year	Revised Remaining Useful Life
				2.1						$ 900,160					
2300	1	Bridge 1 MTO(4-106) - 6th Line - just north of Highway 109	M	2	2062	10	2070	2070		$10,000	2030		5	2074	52
2299	2	Bridge 2 MTO(4-105) - 7th Line - north of Highway 109	M	2	2067	10	2072	2072					0	2072	50
2293	3	Bridge 3 MTO(4-104) - 8th Line - just north of old rail line now trail	H	3	1920	10	1928	2021		$200,000	2031	30	50	2059	37
2294	4	Bridge 4 MTO(4-103) - 9th Line - just north of Station St.	M	2	2017	10	2022	2022		$11,000	2024		10	2035	13
2302	5	Bridge 5 MTO(4-155) - Station St / Mill St	M	2	2011	10	2019	2021		$210,000	2023	30	10	2053	31
2292	6	Bridge 6 MTO(4-101) - 10th Line - south of 5th SR	M	2	1988	10	1996	2021					50	2059	37
2291	7	Bridge 7 MTO(4-102) - 5th SR - east of 10th Line	M	2	2032	10	2040	2040		$20,000	2028		5	2044	22
2295	8	Bridge 8 MTO(4-66) - 9th Line - just north of 5th SR	M	2	2035	10	2043	2043					5	2047	25
2298	9	Bridge 9 MTO(4-65) ** - 8th Line - just north of 10th SR	M	2	2064	10	2072	2072					5	2076	54
2296	10	Bridge 10 MTO(4-72) - 7th Line - north of 10th SR	H	3	1900	10	1908	2021						2027	5
2289	11	Bridge 11 MTO(4-73) - 15th SR - west of 6th Line	H	3	1900	10	1908	2021						2029	7
2479	12	Bridge 12 MTO(4-76) - 6th Line - just south of 15th SR	H	3	1910	10	1918	2021						2025	3
2480	13	Bridge 13 MTO(4-75) - 6th Line - just north of 15th SR	H	3	1910	10	1918	2021						2024	2
2481	14	Bridge 14 MTO(4-74) - 6th Line - second bridge north of 15th SR	M	2	2049	10	2057	2057					10	2065	43
4303	15	Bridge 15 MTO(4-71) - 7th Line - 15 SR to 20 SR (WIP original ID 2297)													
2482	16	Bridge 16 MTO(4-69) - 7th Line - south of 20th SR	M	2	2026	10	2034	2034					10	2042	20
4308	17	Bridge 17 - 20th SR east of 7th Line MTO(4-70)	M	2	2083	10	2091	2091					0	2091	69
2290	18	Bridge 18 MTO(4-50) - 25th SR - west of 6th Line	M	2	2062	10	2070	2070					5	2074	52
2301	19	Bridge 19 MTO(4-49) - 6th Line - just north of 25th SR	M	2	2052	10	2060	2060		$30,000	2027		10	2068	46
2484	20	Bridge 20 MTO(4-78) - 4th Line - south of 15th SR	H	3	1988	10	1993	2021					20	2031	9
4260		Arch Culvert - 15th Sideroad for Drain #20	M	2	2055	10	2060	2060					0	2060	38

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Appendix B

Draft Data Verification and Condition Assessment Policy

APPENDIX B: Draft Data Verification and Condition Assessment Policy

Data Verification

1. The main source of asset data updating and editing will be through the Township of Amaranth's PSAB 3150 compliance procedures and/or annual reporting process.

2. Asset additions, disposals, betterments, and write-offs will be recorded based on the Township's PSAB 3150 Compliance Policies and/or general updates to the Asset Management Spreadsheets.

3. Verification of the correct treatment of asset revisions will be completed through frequent annual reviews by Township staff, as well as an annual review by the Township's auditor.

4. During years which condition assessments are not being performed, asset replacement cost will be determined based on a combination of inflating previous values or through the use of the current year's historical invoice data. Where indices are being used, the Non-Residential Building Construction Price Index (NRBCP) shall be used for construction related assets (i.e., infrastructure) and Consumer Price Index (CPI) shall be used for all other assets (i.e., furniture, interior finishes, appliances, etc.).

Condition Assessment

1. Condition assessments shall be performed as outlined in Table B-1 below.

2. Condition assessments shall be performed by qualified individuals (or companies) and shall include a review of the following:

   a) Current asset condition (consistent with the rating format used within this report, unless the Township stipulates a new format, or a regulatory body required format);
      i. Identify any unusual wear from asset use that may hinder asset performance and eventually reduce useful life.
      ii. Assess asset performance and identify (if any) capital improvements that can be applied to extend the asset's useful life and/or bring the asset back to appropriate service levels.

   b) Current asset replacement cost. This is to be based on replacing the asset under current legislation/requirements using Township specification; and

   c) Remaining service life, assuming current identified maintenance and usage levels.

Table B-1

Condition Assessment Timetable

Asset Type	Frequency of Condition Assessment	Comments
Bridges	Every two years	As per Provincial Regulation using current OSIM Inspection format
Equipment (Office, Other)		As identified by Staff, so Equipment is safe and in good working order
Facilities	Every ten - fifteen years	Complete detailed assessment every ten years but annual staff and specialized inspection/cleaning of some components (e.g., HVAC, Fans, Pumps, etc.)
Land Improvements (Playing Surfaces, Parking Lots, Parks, Landscaping)	Annually	Staff assessment annually. Playgrounds as per Provincial Standards.
Roads	Every five - ten years	Complete Roads Needs study every five years but internal staff review annually
Road Signs		As per Regulation 239 Minimum Maintenance Standards
Sidewalks		As per Regulation 239 Minimum Maintenance Standards
Software & Hardware		As identified by Staff, so software and hardware operating well
Storm Water Mains	Every 15 years after ½ Useful Life	CCTV scans and review of Storm Water system
Storm Water (Catch Basins, Manholes)	Annually	To be assessed while doing a clean out
Street Lights	Every month	To ensure they are working in accordance with Regulation 239 Minimum Maintenance Standards
Vehicles		As per Manufacturer's Warranty and Maintenance Program
Generators	Every season	Minimum four times per year

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Appendix C

10-Year Detailed Asset Management Strategy & Financing Strategy

Township of Amaranth
2023 Asset Management Plan
Financing Strategy

Table of Contents:

Section 1: Capital Forecast and Funding Analysis

Asset Class	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Capital Replacement											
Road Surface - Asphalt	276,094	76,758	-	52,341	11,041	149,024	-	152,316	427,787	291,204	**1,436,565**
Road Surface - Gravel	229,500	234,090	238,772	243,547	248,418	253,387	258,454	263,623	268,896	274,274	**2,512,961**
Road Base	20,400	20,808	21,224	21,649	22,082	22,523	22,974	23,433	23,902	24,380	**223,375**
Bridge & Culverts	8,160	1,526,787	1,565,812	-	1,629,071	-	1,694,886	-	864,052	-	**7,288,768**
Storm Water Mains	-	-	-	-	-	-	-	-	-	-	**-**
Catch Basin	-	-	-	-	-	-	-	-	-	-	**-**
Storm Manholes	-	-	-	-	-	-	-	-	-	-	**-**
Crossroad Culverts	20,400	20,808	21,224	21,649	22,082	22,523	22,974	23,433	23,902	42,665	**241,660**
Storm Ponds	-	-	-	-	-	-	-	-	-	-	**-**
Discharge Points	-	-	-	-	-	-	-	-	-	-	**-**
Wastewater	-	-	-	-	-	-	-	-	-	-	**-**
Subtotal - Capital Replacement	**554,554**	**1,879,251**	**1,847,032**	**339,186**	**1,932,694**	**447,457**	**1,999,288**	**462,805**	**1,608,539**	**632,523**	**11,703,329**
Capital Rehabilitation											
Road Surface - Asphalt	-	-	-	-	-	-	-	-	-	-	**-**
Road Surface - Gravel	-	-	-	-	-	-	-	-	-	-	**-**
Road Base	-	-	-	-	-	-	-	-	-	-	**-**
Bridge & Culverts	214,200	11,444	-	-	33,122	22,523	-	11,717	239,019	-	**532,025**
Storm Water Mains	-	-	-	-	-	-	-	-	-	-	**-**
Catch Basin	-	-	-	-	-	-	-	-	-	-	**-**
Sotm Manholes	-	-	-	-	-	-	-	-	-	-	**-**
Crossroad Culverts	-	-	-	-	-	-	-	-	-	-	**-**
Storm Ponds	-	-	-	-	-	-	2,872	-	-	-	**2,872**
Discharge Points	-	-	-	-	-	-	-	-	-	-	**-**
Wastewater	-	-	-	-	-	-	-	-	-	-	**-**
Subtotal - Capital Rehabilitation	**214,200**	**11,444**	**-**	**-**	**33,122**	**22,523**	**2,872**	**11,717**	**239,019**	**-**	**534,897**
Levels of Service Costs											
Road Surface - Asphalt	39,780	40,576	41,387	42,215	43,059	43,920	44,799	45,695	46,609	47,541	**435,581**
Road Surface - Gravel	235,110	239,812	244,608	249,501	254,491	259,580	264,772	270,067	275,469	280,978	**2,574,388**
Road Base	-	-	-	-	-	-	-	-	-	-	**-**
Bridge & Culverts	20,400	20,808	21,224	21,649	22,082	22,523	22,974	23,433	23,902	24,380	**223,375**
Storm Water Mains	-	-	-	-	-	-	-	-	-	-	**-**
Catch Basin	1,530	1,561	1,592	1,624	1,656	1,689	1,723	1,757	1,793	1,828	**16,753**
Storm Manholes	-	-	-	-	-	-	-	-	-	-	**-**
Crossroad Culverts	40,800	41,616	42,448	43,297	44,163	45,046	45,947	46,866	47,804	48,760	**446,747**
Storm Ponds	-	-	-	-	-	-	-	-	-	-	**-**
Discharge Points	-	-	-	-	-	-	-	-	-	-	**-**
Wastewater	-	-	849	-	-	901	-	-	956	-	**2,706**
Subtotal - Levels of Service	**337,620**	**344,373**	**352,108**	**358,286**	**365,451**	**373,659**	**380,215**	**387,818**	**396,533**	**403,487**	**3,699,550**

Asset Class	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Totals by Asset Class (Replacement, Rehabilitation and Levels of Service)											
Road Surface - Asphalt	**315,874**	**117,334**	**41,387**	**94,556**	**54,100**	**192,944**	**44,799**	**198,011**	**474,396**	**338,745**	**1,872,146**
Road Surface - Gravel	**464,610**	**473,902**	**483,380**	**493,048**	**502,909**	**512,967**	**523,226**	**533,690**	**544,365**	**555,252**	**5,087,349**
Road Base	**20,400**	**20,808**	**21,224**	**21,649**	**22,082**	**22,523**	**22,974**	**23,433**	**23,902**	**24,380**	**223,375**
Bridge & Culverts	**242,760**	**1,559,039**	**1,587,036**	**21,649**	**1,684,275**	**45,046**	**1,717,860**	**35,150**	**1,126,973**	**24,380**	**8,044,168**
Storm Water Mains	-	-	-	-	-	-	-	-	-	-	-
Catch Basin	**1,530**	**1,561**	**1,592**	**1,624**	**1,656**	**1,689**	**1,723**	**1,757**	**1,793**	**1,828**	**16,753**
Storm Manholes	-	-	-	-	-	-	-	-	-	-	-
Crossroad Culverts	**61,200**	**62,424**	**63,672**	**64,946**	**66,245**	**67,569**	**68,921**	**70,299**	**71,706**	**91,425**	**688,407**
Storm Ponds	-	-	-	-	-	-	**2,872**	-	-	-	**2,872**
Discharge Points	-	-	-	-	-	-	-	-	-	-	-
Wastewater	-	-	**849**	-	-	**901**	-	-	**956**	-	**2,706**
Total	**1,106,374**	**2,235,068**	**2,199,140**	**697,472**	**2,331,267**	**843,639**	**2,382,375**	**862,340**	**2,244,091**	**1,036,010**	**15,937,776**

Funding Analysis	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Total Funding by Source											
Canada Community Building Fund (Gas Tax)	134,991	134,991	134,991	134,991	134,991	134,991	134,991	134,991	134,991	134,991	**1,349,910**
OCIF Funding	166,135	166,135	166,135	166,135	166,135	166,135	166,135	166,135	166,135	166,135	**1,661,350**
Transfer from Operations (for Core Infrastructure capital)	-	-	-	-	-	-	-	-	-	-	-
Transfer from/(to) Capital Reserves:											
Bridges & Asset Management Reserves	(89,760)	450,000	250,000	38,056	700,000	169,743	950,000	173,384	1,350,000	331,384	**4,322,807**
Canada Community Building Fund (Gas Tax) Reserve	557,388	105,882	-	-	-	-	-	-	-	-	**663,270**
Operating Funding (LOS Impacts)	337,620	344,370	351,260	358,290	365,460	372,770	380,230	387,830	395,590	403,500	**3,696,920**
Debt Funding (see section 2)	-	1,033,690	1,296,754	-	964,681	-	751,019	-	197,375	-	**4,243,519**
Total	**1,106,374**	**2,235,068**	**2,199,140**	**697,472**	**2,331,267**	**843,639**	**2,382,375**	**862,340**	**2,244,091**	**1,036,010**	**15,937,776**
Total Cost less Funding	-	-	-	-	-	-	-	-	-	-	-

Section 2: Future Debt

Year	Principal Amount	New Annual Payments									
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
2024	-		-	-	-	-	-	-	-	-	-
2025	1,033,690			82,950	82,950	82,950	82,950	82,950	82,950	82,950	82,950
2026	1,296,754				104,050	104,050	104,050	104,050	104,050	104,050	104,050
2027	-					-	-	-	-	-	-
2028	964,681						77,410	77,410	77,410	77,410	77,410
2029	-							-	-	-	-
2030	751,019								60,260	60,260	60,260
2031	-									-	-
2032	197,375										15,840
2033	-										
Total	**4,243,519**	**-**	**-**	**82,950**	**187,000**	**187,000**	**264,410**	**264,410**	**324,670**	**324,670**	**340,510**

Assumptions:

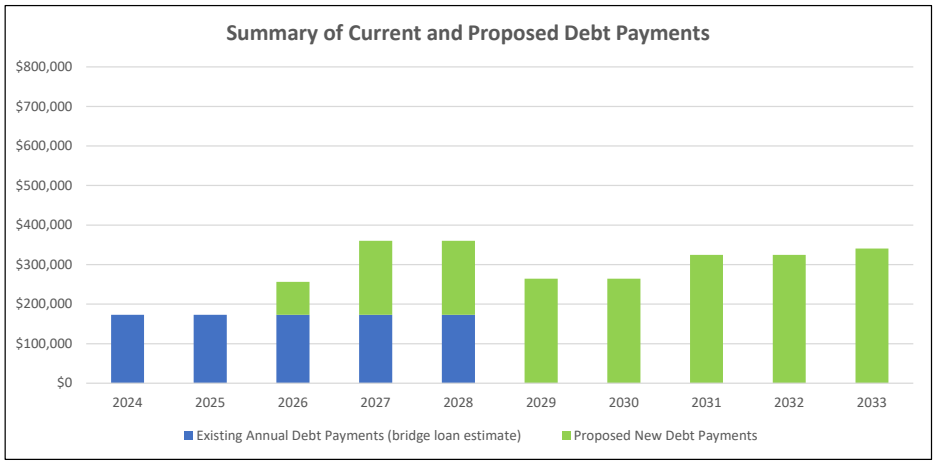
Term:	20	years
Rate:	5%	per year
Timing:	Debt is incurred at the end of the given year, with principal & interest payments starting in the following year.	

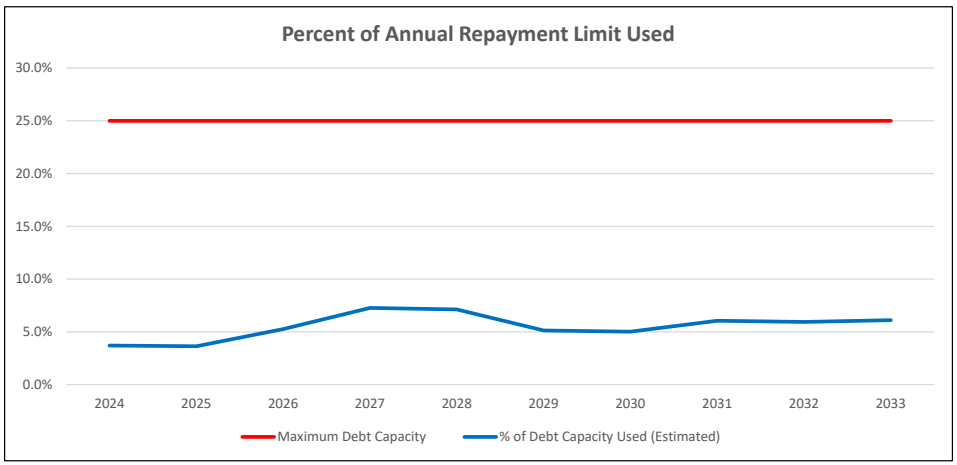
Debt Capacity Analysis

* Ontario municipalities must maintain annual debt principal and interest payments below the equivalent of 25% of revenues.

Debt Analysis	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Existing Annual Debt Payments (bridge loan estimate)	173,200	173,200	173,200	173,200	173,200	-	-	-	-	-
Proposed New Debt Payments	-	-	82,950	187,000	187,000	264,410	264,410	324,670	324,670	340,510
Total Anticipated Debt Payments	**173,200**	**173,200**	**256,150**	**360,200**	**360,200**	**264,410**	**264,410**	**324,670**	**324,670**	**340,510**
Estimated Revenues*	4,670,338	4,763,745	4,859,020	4,956,200	5,055,324	5,156,430	5,259,559	5,364,750	5,472,045	5,581,486
Maximum Debt Capacity	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%
% of Debt Capacity Used (Estimated)	**3.7%**	**3.6%**	**5.3%**	**7.3%**	**7.1%**	**5.1%**	**5.0%**	**6.1%**	**5.9%**	**6.1%**

* Annual revenue estimate assumes inflation of 2% annually.





Section 3: Reserve Schedules

Bridges & Asset Management Reserves	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Opening Balance	220,244	398,294	153,959	147,634	373,857	66,601	490,382	242,116	821,746	339,714
Add: Contributions from Operating	88,290	205,665	243,674	264,279	392,744	593,525	701,734	753,014	867,968	970,613
Less: Contributions to/(from) Capital	89,760	(450,000)	(250,000)	(38,056)	(700,000)	(169,743)	(950,000)	(173,384)	(1,350,000)	(331,384)
Interest Earned (if applicable)	-	-	-	-	-	-	-	-	-	-
Ending Balance	**398,294**	**153,959**	**147,634**	**373,857**	**66,601**	**490,382**	**242,116**	**821,746**	**339,714**	**978,943**

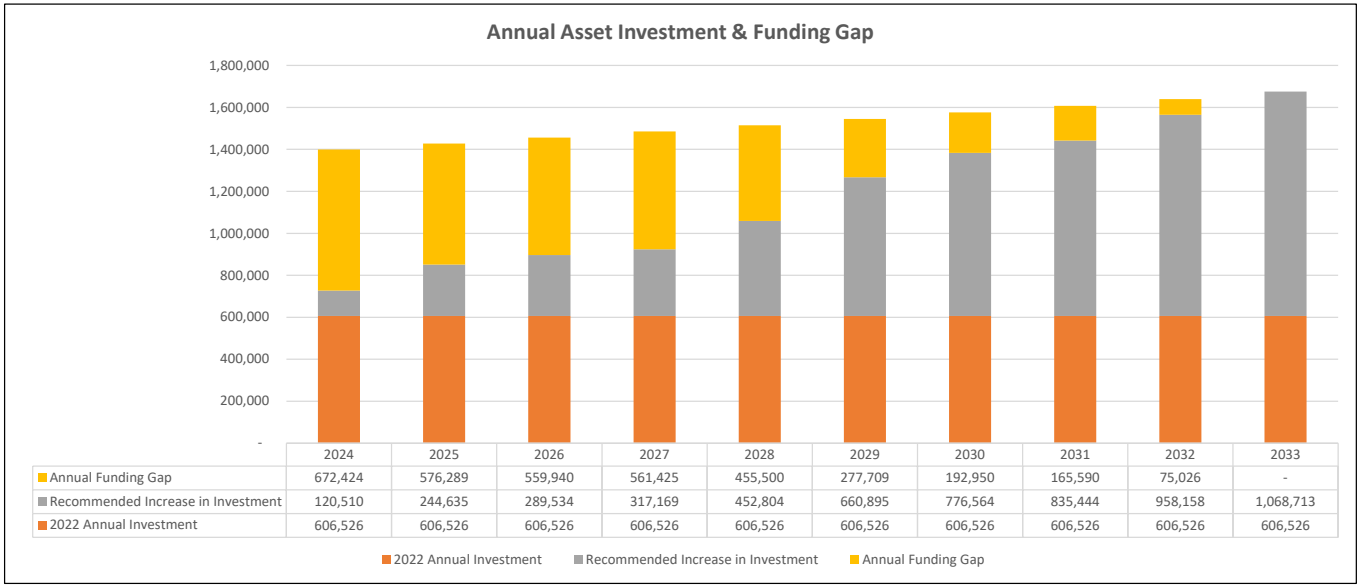
Section 4: Budget Impacts & Funding Gap

Impact Analysis	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Replacement, Rehabilitation & LOS Impacts (Capital)										
Optimal Investment - Capital	1,061,840	1,083,080	1,104,740	1,126,830	1,149,370	1,172,360	1,195,810	1,219,730	1,244,120	1,269,000
Optimal Investment - Operating LOS	337,620	344,370	351,260	358,290	365,460	372,770	380,230	387,830	395,590	403,500
Total Optimal Investment	**1,399,460**	**1,427,450**	**1,456,000**	**1,485,120**	**1,514,830**	**1,545,130**	**1,576,040**	**1,607,560**	**1,639,710**	**1,672,500**
Recommended Investment - Capital										
Canada Community Building Fund (Gas Tax)	134,991	134,991	134,991	134,991	134,991	134,991	134,991	134,991	134,991	134,991
OCIF Funding	166,135	166,135	166,135	166,135	166,135	166,135	166,135	166,135	166,135	166,135
Transfer from Operations (for Core Infrastructure capital)	-	-	-	-	-	-	-	-	-	-
Transfer from/(to) Capital Reserves:										
Bridges & Asset Management Reserves	88,290	205,665	243,674	264,279	392,744	593,525	701,734	753,014	867,968	970,613
Total Recommended Investment - Capital	**389,416**	**506,791**	**544,800**	**565,405**	**693,870**	**894,651**	**1,002,860**	**1,054,140**	**1,169,094**	**1,271,739**
% of Optimal Investment (Capital) Reached	*37%*	*47%*	*49%*	*50%*	*60%*	*76%*	*84%*	*86%*	*94%*	*100%*
LOS Impacts - Operating										
Recommended Investment	337,620	344,370	351,260	358,290	365,460	372,770	380,230	387,830	395,590	403,500
Total Recommended Investment - LOS Operating	**337,620**	**344,370**	**351,260**	**358,290**	**365,460**	**372,770**	**380,230**	**387,830**	**395,590**	**403,500**
Total Recommended Investment - Capital & Operating	**727,036**	**851,161**	**896,060**	**923,695**	**1,059,330**	**1,267,421**	**1,383,090**	**1,441,970**	**1,564,684**	**1,675,239**
% of Optimal Investment (Operating & Capital) Reached	*52%*	*60%*	*62%*	*62%*	*70%*	*82%*	*88%*	*90%*	*95%*	*100%*
Funding (Gap) / Surplus	**(672,424)**	**(576,289)**	**(559,940)**	**(561,425)**	**(455,500)**	**(277,709)**	**(192,950)**	**(165,590)**	**(75,026)**	**2,739**

Investment in Capital	2023
Canada Community Building Fund (Gas Tax)	134,991
OCIF Funding	166,135
Transfer from Operating (Core Infrastructure)	-
Transfer to Reserves	-
Total Investment	**301,126**

Investment in capital "starting point" for the capital forecast.

	Impact on Funding	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
	Total Recommended Investment - Capital	**389,416**	**506,791**	**544,800**	**565,405**	**693,870**	**894,651**	**1,002,860**	**1,054,140**	**1,169,094**	**1,271,739**
	Previous Year's Investment	**301,126**	**389,416**	**506,791**	**544,800**	**565,405**	**693,870**	**894,651**	**1,002,860**	**1,054,140**	**1,169,094**
	Annual Increase in Capital Investment										
	Grants	-	-	-	-	-	-	-	-	-	-
	Tax Supported	88,290	117,375	38,009	20,605	128,465	200,781	108,210	51,280	114,954	102,645
	Total Change	**88,290**	**117,375**	**38,009**	**20,605**	**128,465**	**200,781**	**108,210**	**51,280**	**114,954**	**102,645**
	Total Recommended Investment - Operating LOS	337,620	344,370	351,260	358,290	365,460	372,770	380,230	387,830	395,590	403,500
	Previous Year's Investment	**305,400**	**337,620**	**344,370**	**351,260**	**358,290**	**365,460**	**372,770**	**380,230**	**387,830**	**395,590**
	Annual Increase/(Decrease) in Capital Investment										
	Tax Supported	32,220	6,750	6,890	7,030	7,170	7,310	7,460	7,600	7,760	7,910
	Total Change	**32,220**	**6,750**	**6,890**	**7,030**	**7,170**	**7,310**	**7,460**	**7,600**	**7,760**	**7,910**
A	**Total Change - Capital & LOS (excluding Grant Increase)**	**120,510**	**124,125**	**44,899**	**27,635**	**135,635**	**208,091**	**115,670**	**58,880**	**122,714**	**110,555**
B	**Net Increase (Decrease) in Debt Payments**	**-**	**-**	**82,950**	**104,050**	**-**	**(95,790)**	**-**	**60,260**	**-**	**15,840**
A + B	**Total Impact on Annual Tax Supported Budget**	**120,510**	**124,125**	**127,849**	**131,685**	**135,635**	**112,301**	**115,670**	**119,140**	**122,714**	**126,395**
	Estimated Taxation Impact (1% in 2023 = $45,000)	**2.60%**	**2.60%**	**2.60%**	**2.60%**	**2.60%**	**2.09%**	**2.09%**	**2.09%**	**2.09%**	**2.09%**
	1% assessment growth annually										



	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Annual Funding Gap	672,424	576,289	559,940	561,425	455,500	277,709	192,950	165,590	75,026	-
Recommended Increase in Investment	120,510	244,635	289,534	317,169	452,804	660,895	776,564	835,444	958,158	1,068,713
2022 Annual Investment	606,526	606,526	606,526	606,526	606,526	606,526	606,526	606,526	606,526	606,526