# **DRAFT REPORT**

PREPARED BY HEMSON FOR THE TOWNSHIP OF SCUGOG

# **ASSET MANAGEMENT PLAN**

May 20, 2025





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# **EXECUTIVE SUMMARY**

The Asset Management Plan (2025 Plan) has been developed to be consistent with the requirements of *Ontario Regulation 588/17 Asset Management Planning for Municipal Infrastructure* (*O Reg. 588/17*) and meet the 2025 proposed level of service requirements. This 2025 Plan includes current level of service measures for all core and non-core infrastructure assets and defines proposed levels of service over a ten-year period. A summary of the key results is noted below along with relevant reporting outputs provided in the summary dashboard. Note that all figures are in constant 2025 dollars.

- The Township's infrastructure has an estimated replacement value of \$1.0 billion. The largest share is roads and accounts for about \$807.8 million (78%). The next highest share is buildings at \$103.2 million (10%) and is followed by bridges and culverts at \$41.4 million (4%). The other asset categories are made up of \$85.8 million (8%) for the computer equipment, equipment, parking lots, parks, vehicles, marine assets, streetlights, sidewalks, and storm sewer system.
- About \$331.5 million (32%) of the assets are in Good to Very Good condition while \$140.2 million (14%) of the assets are Fair condition. The remaining \$566.5 million (55%) are in Poor to Very Poor condition largely related to the road network.
- The proposed level of service is generally set to maintain the current level of service over the next 10-year period.
  - Paved roads on average have a PCI of 53 with the proposed level of service to maintain this level and make improvements where possible. Unpaved roads have an average surface condition of 44, however, ongoing gravel road maintenance is expected to maintain this average.
  - Currently, 13% of bridges and culverts in the Township have loading or dimensional restrictions while the current average BCI is 76.20. For structural culverts, the average BCI is 71.16. The average conditions for both bridges and culverts are proposed to be maintained over the ten-year period.
  - All other asset categories (buildings, vehicles, computer equipment, parks and recreation and fire) are proposed to be maintained at their current level of service or better.
- The total 10-year lifecycle costs to meet proposed levels of service amount to \$216.2 million (an average of \$21.6 million per year). To meet the proposed levels of service,



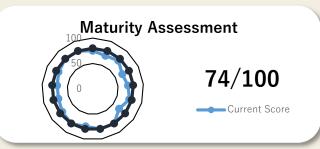
the Township would be required to maintain the existing 4% dedicated levy towards roads, facilities, and fleet over the ten-year period. While this strategy would still leave a cumulative funding gap by the end of the 10-year period of \$13.6 million, the dedicated levy will continue to help the Township in achieving the proposed levels of service.

 Monitoring of the funding gap will need to continue going forward to ensure that funding levels remain sufficient to meet level of service objectives.

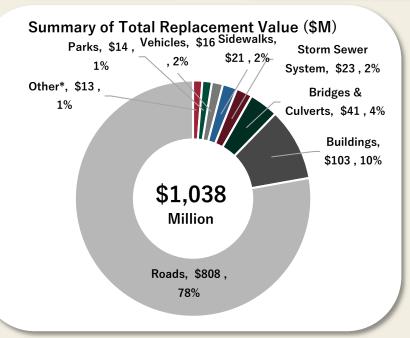


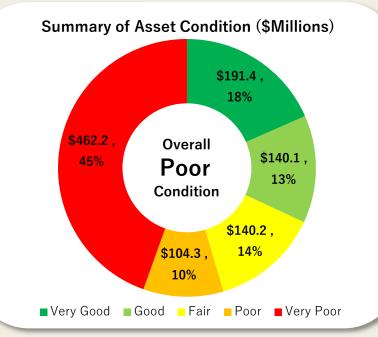
# **Summary of 2025 Asset Management Plan**











\*Other category includes computer equipment, marine assets, equipment, streetlights, and parking lots.



#### INTRODUCTION 1.

The Township of Scugog's 2025 Asset Management Plan (2025 AMP) provides the Township with a tool to assist in asset management financing decisions. The AMP covers all Township owned and operated assets and follows the format set out by the Ministry of Infrastructure through the Building Together: Guide for Municipal Asset Management Plans, the requirements of Ontario Regulation 588/17 Asset Management Planning for Municipal Infrastructure (O. Reg. 588/17) and the Township's Strategic Asset Management Policy.

An Excel based asset management financial model has been developed as part of the 2025 AMP. The model contains the Township's detailed asset inventory and financing strategy used to develop this AMP. The model is provided to municipal staff and is intended to be updated on a regular basis to inform future capital investment decisions.

#### PURPOSE OF THE ASSET MANAGEMENT PLAN Α.

The main purpose of the 2025 AMP is to advance the Township's asset management practices by developing a set of asset management strategies to the specific needs of each service area. At the same time, these strategies align with the objectives of the requirements of Ontario Regulation 588/17 (O. Reg. 588/17). This plan is focused on achieving several key objectives:

- Ensuring Long-Term Sustainability management of the Township's assets is a longterm commitment that must be sustainable to ensure effective service delivery for future generations.
- Lowest Cost of Ownership long-term sustainability is only possible by ensuring costs are minimized through efficient management of assets by developing service area and asset specific objectives.
- Minimizing Risk risk is minimized through the assessment, management and longterm planning of assets at more focused levels and through consultation with service area staff.
- **Enhancing Service Delivery** the Township strives for continual improvement in its asset management strategies as outlined in the Strategic Asset Management Policy and therefore tailored approaches to assessing long-term needs unique to each asset category is captured through this AMP.



 Supporting Informed Decision-Making – development of a set of asset management tools that help the decision-making process make evidence-based decisions. The Excel based financial model can be used to continually keep asset information up to date.

By following the key objectives above, the AMP establishes a "clear line of sight" from the service being provided to residents and businesses in the Township. Any investment requirements included in the AMP are clearly linked to a well-defined need. These needs over the 10-year period are set to meet the proposed level of service, which in the case of Scugog, is largely related to maintaining or exceeding the current levels of service. Furthermore, the needs should be aligned with strategic objectives through capital and operating decisions made in the budget process.

### B. REGULATORY CONTEXT

In 2015, the Province of Ontario passed the *Infrastructure for Jobs and Prosperity Act*. The purpose of this Act is to establish mechanisms to encourage principled, evidence-based and strategic long-term infrastructure planning that supports job creation and training opportunities, economic growth, protection of the environment, and incorporate design excellence into infrastructure planning.

In December 2017, Ontario Regulation 588/17 Asset Management Planning for Municipal Infrastructure (O. Reg 588/17) was passed under the Infrastructure for Jobs and Prosperity Act. The regulation requires municipalities to develop a Strategic Asset Management Policy, which will help municipalities document the relationship between their Asset Management Plan and existing policies and practices as well as provide guidance for future capital investment decisions. The regulation also contains more specific requirements on the type of analysis municipal asset management plans should contain, including policies, levels of service, lifecycle management and financing strategies. The aim is to provide guidance to municipalities so that asset management plans are more consistent across the Province. Furthermore, in March 2021 the Province amended the regulation to extend the regulatory timelines by one year. A summary timeline of the requirements of the regulation are outlined in Figure 1.

Figure 1 – Ontario Regulation 588/17 Requirements



A high-level summary of the technical requirements to be addressed for July 1, 2025 include<sup>1</sup>:

- An AMP for all municipal infrastructure assets that builds upon the previous requirements for all asset categories (core and non-core).
- Identification of the proposed levels of service for each of the next 10-years (core and non-core).
- The lifecycle activities required to meet proposed levels of service.
- The risks associated with the lifecycle activities to meet proposed levels of service and their associated costs.

The 2025 AMP meets the requirements of the regulation as it includes the proposed levels of service requirement to meet the 2025 deadline for all assets considered in this AMP. The 2025 AMP builds on the work completed in the Township's 2022 Asset Management Plan which included all asset categories (core and non-core) and reported on the current level of service. Through this update, the Township has updated the current level of service utilizing more recent engineering reports, updated inventories and datasets compiled through consultation with Township staff.

<sup>&</sup>lt;sup>1</sup> There are additional requirements of the regulation not explicitly stated here, however this AMP meets all requirements needed. Only the most relevant reporting requirements are listed for simplicity. See https://www.ontario.ca/laws/regulation/r17588#BK7.



# C. ASSET MANAGEMENT PLAN STRUCTURE

The 2025 AMP is developed to be consistent with the structure recommended through the 2013 Building Together: Guide for Municipal Asset Management Plans. At the same time, it has been developed to meet the requirements of O Reg. 588/17. Table 1 provides a guide to the sections of the 2025 AMP.

Table 1 - AMP Report Structure

| Section Requirement          |  |  |  |  |
|------------------------------|--|--|--|--|
| Main Body                    |  |  |  |  |
| Section 2 - State of Local   | Summarizes the state of the Township's infrastructure with reference       |  |  |  |
| Infrastructure               | to infrastructure quantity and quality. Additional details are provided in |  |  |  |
|                              | Appendix A.  |  |  |  |
| Section 3 - Level of Service | A summary of the current and proposed levels of service summarized         |  |  |  |
|                              | for each asset category. This section is consistent with the reporting     |  |  |  |
|                              | requirements of O. Reg. 588/17.  |  |  |  |
| Section 4 - Asset            | Sets out several strategies and lifecycle costs that will assist the       |  |  |  |
| Management Strategy          | Township in maintaining assets so that proposed levels of service can      |  |  |  |
|                              | be met. This section also includes a risk analysis of Township assets.     |  |  |  |
| Section 5 - Financing        | Establishes how asset management can be delivered in a financially         |  |  |  |
| Strategy                     | sustainable way for all services. Outlines the lifecycle costs and         |  |  |  |
|                              | funding strategy to meet proposed levels of service. Additional detailed   |  |  |  |
|                              | calculations are provided in Appendix B.                                   |  |  |  |
| Section 6 – Monitoring and   | Provides key recommendations on how to improve the asset                   |  |  |  |
| Improvement Plan             | management plan and related practices over the long-term.                  |  |  |  |
|                              | Appendices   |  |  |  |
| Appendix A – State of Local  | Detailed reports on the state of local infrastructure by asset category    |  |  |  |
| Infrastructure Report Cards  | including the asset portfolio, replacement values, age and condition.      |  |  |  |
| Appendix B – Detailed        | Additional detailed tables related to the lifecycle cost and financing     |  |  |  |
| Financing Strategy Tables    | strategy.  |  |  |  |

# 2. STATE OF LOCAL INFRASTRUCTURE

This section provides a summary of the Township's assets with reference to asset quantity and quality. Most assets have condition assessments based on engineering inspections, while the balance of asset conditions are based on the useful life of the asset relative to its age or a high-level condition assessment developed in consultation with Township staff. Detailed technical information on the asset inventory, remaining useful life and conditions for each asset category is provided in Appendix A.

## A. REPLACEMENT COST OF INFRASTUCTURE

The replacement cost for all Township assets considered in the 2025 AMP is estimated at \$1.0 billion (represented in constant 2025 dollars). The largest share is related to roads and accounts for about \$807.8 million (78%) of the total replacement value. The next highest share is attributed to buildings at \$103.2 million (10%) and this is followed by the bridges and culverts at \$41.4 million (4%). The other asset categories in the Township's asset portfolio are made up of \$22.8 million (2%) for storm sewer system, \$20.6 million (2%) for sidewalks, \$15.8 million (2%) for vehicles, \$13.6 million (1%) for parks, \$4.6 million (0.4%) for equipment, \$4.1 million (0.4%) for parking lots, \$1.7 million (0.2%) for marine assets, \$1.6 million (0.2%) for computer equipment, and \$1.1 million (0.1%) for streetlights.

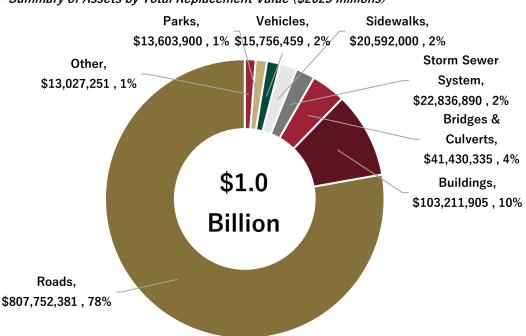


Figure 2 - Summary of Assets by Total Replacement Value (\$2025 millions)

Note: The "Other" category includes Computer Equipment, Marine, Equipment, Streetlights and Parking Lots.



Replacement values are used to estimate the cost of replacing an asset when it reaches the end of its engineered design life. For this reason, the replacement values represent an important input into the lifecycle cost analysis. The total replacement cost of assets of \$1.0 billion has been determined utilizing different methods that are appropriate for each asset category and dependent on data available at the time of developing this AMP.

Table 2 - Methodology Used for Replacement Values

| Asset Category                    | Methodology  |
|-----------------------------------|--|
| Roads                             | <ul> <li>Based on replacement costs provided in the 2024 Roads<br/>Asset Management Plan, inflated to 2025 dollars based on<br/>NRBCPI</li> </ul>  |
| Bridges & Culverts                | <ul> <li>Based on 2023 OSIM Report replacement values adjusted<br/>to 2025 dollars based on average NRBCPI</li> </ul>  |
| Buildings                         | <ul> <li>Combined approach between costs per square foot<br/>provided in the 2024 DC Study and 2023 BCA Reports<br/>where applicable. Otherwise, historical costs inflated to<br/>2025 dollars using NRBCPI</li> </ul> |
| All Remaining Asset<br>Categories | <ul> <li>Combined approach of inflating historical costs and<br/>benchmark unit costs from DC Study where possible</li> </ul>  |

# B. REMAINING USEFUL LIFE OF THE INFRASTRUCTURE

Figure 3 provides a summary of the assets by replacement value shown by their remaining useful life (years).<sup>2</sup> About \$17.7 million (8%) of the infrastructure has greater than 50 years of remaining useful life. About \$80.3 million (35%) has between 10 and 49 years of remaining useful life while about \$36.4 million (16%) has 0 to 9 years of remaining useful life.

The remaining \$96.0 million (42%) is considered overdue and past its design life. This is largely related to buildings, consisting of about \$49.0 million in assets overdue at this time. Although this infrastructure is considered past its design life, the infrastructure continues to be maintained and is in good working order.

<sup>&</sup>lt;sup>2</sup> The summary shows infrastructure totalling about \$230.5 million of the total Township replacement value of \$1.0 billion as roads have been excluded from the summary. Roads are excluded as no acquisition date or useful life information is available as the Township maintains the roads based on its condition and not on age.



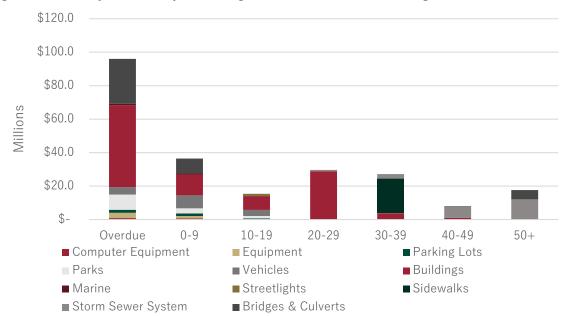


Figure 3 - Summary of Assets by Remaining Useful Life (\$2025) – excluding Roads

Note: Roads are excluded as no acquisition date or useful life information is available as the Township maintains the roads based on its condition and not on age.

#### C. CONDITION OF THE INFRASTRUCTURE

Consistent with the Canadian National Infrastructure Report Card, as well as other major organization and institution reporting formats, a five-point rating scale was used to assign a condition to all assets. This methodology provides a standard and easy to understand way of reporting on the condition of assets. Table 3 summarizes the assumed parameters.

Table 3 - Condition Assessment Parameters

| Condition Rating | Definition   |  |  |
|------------------|--|--|--|
| Very Good        | <ul> <li>Well maintained, good condition, new or recently rehabilitated</li> </ul> |  |  |
| ,                | asset.   |  |  |
| Good             | Good condition, few elements exhibit existing deficiencies.                        |  |  |
| Fair             | Some elements exhibit significant deficiencies. Asset requires                     |  |  |
| rair             | attention.   |  |  |
| Poor             | A large portion of the system exhibits significant deficiencies.                   |  |  |
| Poor             | Asset mostly below standard and approaching end of service life.                   |  |  |
| Vory Poor        | ■ Widespread signs of deterioration, some assets may be unusable.                  |  |  |
| Very Poor        | Service is affected.   |  |  |



Assets were categorized in the 5-tier rating system on an asset-by-asset basis. Three approaches have been utilized for the assets considered in this AMP. The approaches for each of these methods is outlined.

# 1. Engineered Conditions

Condition rating systems based on engineered and professional standards. These measures can then be translated into a 5-tier rating system. The Township aims to continually update the asset inventory to reflect changes in conditions or when assets are replaced.

Condition assessments for the roads are based on the engineered assessments
developed through the 2024 Roads Asset Management Plan. The Roads AMP rates the
roads utilizing a 100-point scale for surface condition. The condition of the roads has
been translated to the 5-point scale based on the scale in Table 4.

Table 4 - Road Surface Condition Parameters

| Condition Rating | Surface Condition Range |  |
|------------------|-------------------------|--|
| Very Good        | 80-100                  |  |
| Good             | 70-80                   |  |
| Fair             | 60-70                   |  |
| Poor             | 50-60                   |  |
| Very Poor        | Less than 50            |  |

Condition assessments for the bridges and culverts are based on the engineered assessments developed through the 2023 OSIM report (Ontario Structure Inspection Manual). The OSIM report rates the culverts utilizing a 100-point Bridge Condition Index scale (BCI). The condition of the culverts has been translated to the 5-point scale based on the scale in Table 5 below.

Table 5 - Culvert Condition Parameters

| Condition Rating | BCI Range    |  |
|------------------|--------------|--|
| Very Good        | 80 - 100     |  |
| Good             | 70 - 80      |  |
| Fair             | 60 - 70      |  |
| Poor             | 50 - 60      |  |
| Very Poor        | Less than 50 |  |

#### 2. Staff Consultation

For some assets where engineering conditions were not available, estimates were developed in consultation with Township staff. This approach is important where there is low confidence that age and useful life represents the condition of a particular asset. This method has been used for a series of assets in this 2025 AMP:

- Vehicles some vehicles are older based on their design life, however, they continue to be well maintained and are in working condition. It has been assumed that some fire vehicles are generally in a minimum of Fair condition whereas their age would suggest they would be in Very Poor or Poor condition.
- Equipment Similarly to vehicles, any fire-related equipment in Very Poor or Poor condition based on its age and design life has been assumed to be in Fair condition or better.
- Parks Parks assets in Very Poor or Poor condition based on its age have been adjusted by Township staff to reflect their true working condition currently.
- Buildings For select buildings, conditions for the structure and its components were sourced from the 2023/2024 Building Condition Assessment (BCA) Reports. For all the remaining buildings, their structures and components in Very Poor or Poor condition based on its age have been adjusted by Township staff to reflect their true working condition currently. The Township continues to maintain its buildings to ensure they are available for service. Generally, buildings are long-lived assets and can continue to be used well past their design life with proper ongoing maintenance.

# 3. Age Based Approach

For some asset types where the Township was not able to provide a condition assessment based on existing knowledge or inspection, the condition is estimated based on age and the remaining useful life of the asset. It is the intention that the Township move towards a condition assessment methodology using approach 1 and 2 wherever possible. The age-based condition methodology is more appropriate for lower valued assets that have a shorter useful life. Table 6 shows the methodology where the condition is assigned based on the remaining useful life of the assets.



Table 6 - Age Based Condition Parameters

| Condition Rating | Percentage of Remaining Useful |  |
|------------------|--------------------------------|--|
| Very Good        | 80% - 100%                     |  |
| Good             | 60% - 80%                      |  |
| Fair             | 40% - 60%                      |  |
| Poor             | 20% – 40%                      |  |
| Very Poor        | Less than 20%                  |  |

# **Summary of the Condition of Assets**

Figure 4 summarizes the condition of Township assets, excluding all roads, which are determined to be in Fair condition on average. Overall, \$105.1 million (46%) of the non-roads assets are in Good to Very Good condition while \$70.0 million (30%) of the assets are Fair condition. The remaining \$55.4 million (24%) are in Poor to Very Poor condition.

Figure 4 - Summary of Asset Condition Excluding Roads (\$2025)

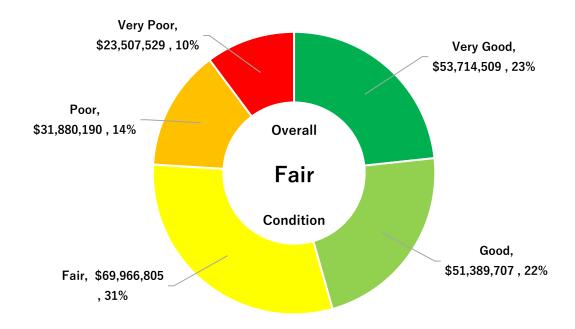


Figure 5 summarizes the condition of all Township roads, which are determined to be in Poor condition on average based on an overall PCI of roads of 53. Overall, about \$226.3 million (28%) of roads are in Good to Very Good condition while \$70.3 million (9%) of the roads are Fair condition. The remaining \$511.1 million (63%) are in Poor to Very Poor condition. The Township has made considerable progress in recent years increasing the condition of the roadway network from 48 PCI (very poor) in 2019 – the increase in PCI value can laregely be

attrributed to the 4% dedicated levy and commitment to undertake necessry capital improvements to address the road deficiencies.

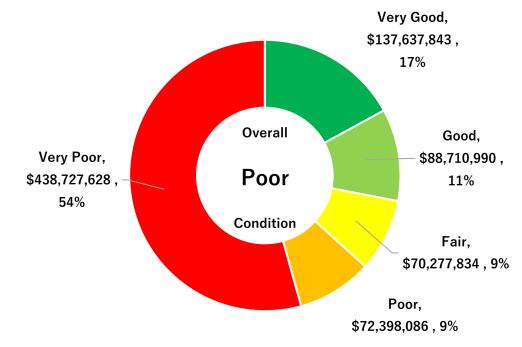


Figure 5 - Summary of Roads Condition (\$2025)

Figure 6 shows the condition of assets delineated by each asset category. Figure 6 shows the following:

- The Township's largest component in the asset portfolio of roads, making up 78% of the replacement value, has significant shares in Poor and Very Poor condition. As stated above, about \$511.1 million (63%) of Township roads are in Poor to Very Poor condition.
- Buildings are generally in Fair condition with about \$58.1 million (56%) of the building components falling in this category, \$18.7 million (18%) of the buildings in Poor or Very Poor condition. The remaining building components of about \$26.4 million (26%) are in Good to Very Good condition.
- The remaining assets with visually large shares of assets in Poor or Very Poor condition only makes up about 4.1% of the total replacement cost of \$1.0 billion. Hence, they are not the main drivers of the overall condition of the Township's assets.

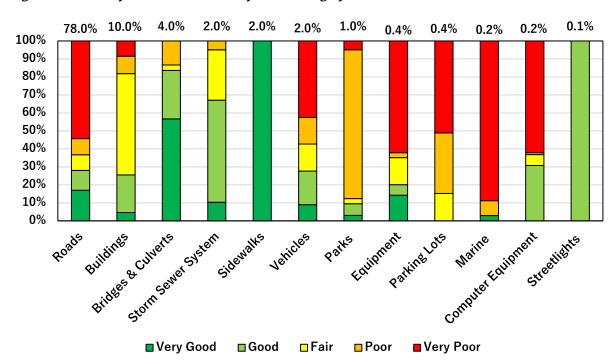


Figure 6 - Summary of Asset Condition by Asset Category

Note: The percentages above the bars represent the shares of replacement value relative to the total replacement value of Township assets at \$1.0 billion.

# 3. Level of Service

Levels of service (LOS) describe the outputs or objectives the Township intends to deliver to its residents, which includes measures from a customer, technical and community perspective. LOS provides a description of a particular activity or asset metric where performance may be measured to benchmark the current state and set targets to ensure resident's needs are met.

Levels of service measure how well the Township is meeting business needs and this information can be utilized as key drivers to inform future investment decisions. Having well-defined service levels will allow the Township to be transparent with its stakeholders to find the appropriate balance between affordability and service expectations.

#### A. THE TOWNSHIP'S LEVEL OF SERVICE GOALS

The LOS Framework helps support and achieve key asset management goals:

- Develop and continuously improve asset management related documentation to provide evidence-based level of service linkages between the customer and technical levels with integration directly into service-based activities as it relates to both the operational and capital expenditures. This objective is achieved through development of the AMP financial model, and the Township expects to continue to make improvements to its available asset data over the longer-term.
- Develop a clear relationship between the level of service and the costs associated to
  meeting level of service objectives by integrating the AMP LOS framework into the
  budget process. This integration is expected to be achieved over the longer-term
  however, the financing strategy makes recommendations on the financial needs to
  meet the proposed level of service which can be utilized to help inform the budget
  process.
- Meet the requirements of O. Reg. 588/17 for 2025 to define the proposed level of service, identify costs to meet the proposed level of service and identify any risks of not meeting these targets.



# B. CUSTOMER LEVELS OF SERVICE (CLOS)

Customer Levels of Service are specific parameters that describe the extent and quality of services that the Township provides to residents from the resident's perspective. CLOS is comprised of qualitative measures such as the description of assets or the related service provided. CLOS can be evaluated through an understanding of the wants and needs of residents while understanding the assets the Township owns and operates. The CLOS are documented as high-level qualitative statements that capture these characteristics. For the purposes of meeting *O. Reg.* 588/17 requirements, the Community Levels of Service (outlined in the regulation) are also included under the CLOS.

# C. TECHNICAL LEVELS OF SERVICE (TLOS)

Technical Levels of Service are specific parameters that measure asset performance. TLOS is comprised of quantitative measures such as asset age, condition or service performance. Part of the TLOS is to consider both the individual asset capability and how the assets are scheduled to be utilized as part of a system of service delivery. These measures are developed through a review of the Township's asset data, engineering reports and in consultation with staff.

The technical levels of service have been defined to meet the following criteria:

- TLOS measures are relevant to the operation of Township services
- TLOS are feasible to track and the data to inform the technical measures are readily available or will be tracked for future iterations of the AMP
- TLOS are developed recognizing the public as the main driver of service, they are designed to track internal asset specific performance, but the resulting quality of service will continue to be based on public input

TLOS measures are crucial for tracking levels of service as they provide quantifiable measures to evaluate the effectiveness and efficiency of service delivery. By systematically monitoring these measures, the Township can assess whether service standards are being met, identify areas for improvement, and allocate resources effectively. An iterative consultation process with staff helped in developing an internal tracking tool to capture the necessary data for calculating the current and proposed levels of service and monitoring the trends moving forward.



#### D. OVERVIEW OF THE TOWNSHIP'S LEVEL OF SERVICE

The Township's 2022 Asset Management Plan was prepared for all Township infrastructure assets under the "current level of service" framework as required by O. Reg. 588/17. The Township defined its current levels of service in accordance with qualitative and technical metrics that have been established through the regulation and in consultation with staff. In general, the measures were derived from data collected in 2022 and the process ensured that the current level of service accurately reflected the performance and condition of infrastructure assets given the available data of the day.

# **Current Level of Service**

For the purposes of this 2025 Asset Management Plan, the customer and technical level of service reporting measures remain generally consistent with those established through the 2022 process with some additional measures included for the 2025 Plan, however, the "current" baseline data has been updated with information that has been made available since 2022. Furthermore, improvements have been made to streamline the measures to focus in areas that are relevant and useful for service level monitoring and meeting the regulatory reporting requirements.

# **Proposed Level of Service**

O. Reg 588/17 requires municipalities to define its proposed levels of service by July 1st, 2025. These proposed levels of service (PLOS) are intended to provide the Township with a measurable future target state for the services it provides. The proposed level of service focuses on asset specific measures that capture the performance of infrastructure which forms part of the services provided by the Township. Best efforts have been made to maintain the focus of the proposed level of service to infrastructure assets that support the service rather than the overall services provided by any specific service area. However, it is noted that in general the proposed level of service outlined in this AMP are required to continue to provide the overall level of service objectives of the Township.

For every level of service that the Township measures, a corresponding set of PLOS measures have been developed. Consultation with Township staff was conducted to develop the proposed levels of service based on the needs of the community, existing data and assessing their appropriateness for the Township. Overall, the proposed levels of service outlined in this report have been carefully evaluated based on the following criteria:



- Options & Associated Risk Staff assess various options for the proposed levels of service and analyze the risks associated with each option to the long-term sustainability of the Township. This assessment considers factors such as service quality, operational efficiency, and financial sustainability.
- **Differences from Current Levels of Service** The analysis looks at a comparison of the proposed levels of service with the current levels to identify areas where adjustments or enhancements are necessary. While some proposed levels of service may mirror the current levels outlined in this AMP, adjustments or enhancements to the current procedures may still be necessary to ensure alignment with longer-term goals.
- Achievability The feasibility of achieving the proposed levels of service considering factors such as available resources, technological capabilities, and operational constraints have been evaluated. Efforts have been made to ensure that the proposed targets are realistic and attainable within the Township's operational capacity. Notwithstanding the Township's intended ability to achieve the targets, it is expected that the proposed levels of service continue to be reviewed and monitored further adjustments may be warranted moving forward.
- Affordability The affordability of the proposed levels of service is conducted in conjunction with the budget process, ensuring alignment with the financial resources and fiscal capacity available. This process inherently involves approval by Council and the organization, with affordability considerations integrated into budgetary decisions.

# Summary of the Level of Service

Table 7 summarizes the customer levels of service while Table 8 shows the technical levels of service. Table 8 shows:

- Local road lane kilometres as a proportion of the Township's land area is about 158%. The number of lane kilometres of collector roads as a proportion of the Township's land area is 26%. The Township does not maintain any arterial roads. The proposed level of service for both these measures is to maintain the current level of service as the Township does not expect to construct new roads for the foreseeable future as growth in the Township is limited.
- Paved roads in the Township are on average in Poor condition with an average PCI of 53 out of 100. This information is based on the Township's 2024 Roads AMP. The proposed level of service is to maintain the current average while also making improvements where possible.



- Unpaved roads are on average in Very poor condition with average PCI of 44. This information is based on the Township's 2024 Roads AMP. The proposed level of service is to maintain a minimum of the current PCI of 44 while also making improvements where possible. The PCI for unpaved roads is expected to fluctuate on an ongoing basis as gravel roads conditions will vary from year to year largely due to weather conditions. However, the Township's roads works recommendations from the 2024 Roads AMP would ensure that these fluctuations in conditions can be managed and the cost implications of achieving this target are included in the financing strategy section of this report.
- Township bridges and culverts are on average in Good condition (76.20 BCI) with two structures currently having loading or dimensional restrictions. Going forward, the Township aims to only have one structure with loading or dimensional restrictions by 2034. Township culverts are also in Good condition on average with a BCI of 71.16. The Township aims to ensure that the current condition is maintained for both bridges and culverts based on the recommendations of the OSIM reports completed every two years.
- For Township buildings, the Township is current completing 100% of their regulated health and safety inspection and aims to maintain this level of service. As repairs and maintenance are needed on buildings, the Township expects to be able to respond to these needs therefore the proposed level of service is to maintain buildings on average in Fair or better condition. Approximately 82% of buildings and their components are in Fair condition or better. The Township aims to maintain a minimum of 60% of buildings and their components in Fair or better condition over the ten-year period.
- The levels of service for the remaining asset categories were developed in collaboration with staff or are based on the average condition which was informed through consultation with Township staff which developed high-level assessments for these assets. Where information was not available, the age of the assets was used. The proposed level of service is to either maintain these assets in Fair or better condition or to have a minimum of 60% of assets in Fair or better condition in each asset category.



Table 7 - Customer Levels of Service

| Asset<br>Category | Customer LOS   | Сотт  | nunity Level of Service   |  |  |
|-------------------|--|---|---|--|--|
| Roads             | Maintain safe and reliable roads and to meet reporting requirements of O. Reg. 588/17.   | 1. Description, which may include maps, of the road network in the municipality and its level of connectivity.  | The 2024 Asset Management Plan for Roads completed by 4 Roads Management Services Inc includes the full listing of the paved and unpaved road segments in the Township of Scugog.   |  |  |
|                   |  | 2. Description or images that illustrate the different levels of road class pavement condition.   | The 2024 Asset Management Plan for Roads completed by 4 Roads Management Services Inc includes the full listing of the paved and unpaved road segments in the Township of Scugog. Details regarding the classification are also provided by road segment. |  |  |
| Culverts          | Maintain safe and reliable culverts and to meet reporting requirements of O. Reg. 588/17 | 1. Description of the traffic that is supported by municipal bridges (e.g., heavy transport vehicles, motor vehicles, emergency vehicles, pedestrians, cyclists). | Structure appraisal forms and images of each individual bridge maintained by the Town can be found in Appendix E of the 2023 OSIM Inventory and Inspection Report.  |  |  |
|                   |  | 2. Description or images of the condition of culverts and how this would affect use of the culverts.  | Structure appraisal forms and images of each individual culvert maintained by the Town can be found in Appendix E of the 2023 OSIM Inventory and Inspection Report.   |  |  |
| Fleet             | Maintain vehicles that are safe for use in the community.                                |   | The Township maintains various types of vehicles for recreation, transportation, protection, and general government services. Includes trailers, fire trucks, light/medium/heavy off road and light/medium/heavy licensed vehicles.                       |  |  |



| Asset<br>Category         | Customer LOS  | Community Level of Service  |  |
|---------------------------|---|---|--|
| Parks &                   | Dravida and reliable and officient  | The Township maintains parks amonities such as trails   |  |
| Recreation                | Provide safe, reliable, and efficient parks amenities and recreational programs.              | The Township maintains parks amenities such as trails, soccer fields, basketball courts, baseball fields, tennis courts, outdoor pools, playgrounds, splash pads, beach volleyball courts, and disk golf courses. In addition, they also maintain vehicles, equipment, and facilities related to providing recreational services. |  |
| Facilities                | Provide safe and reliable facilities.   | The Township maintains a variety of facilities used to deliver recreation, transportation, protection, and general government services. Some of these facilities includes, arenas, public works depots, salt/sand domes, libraries, and municipal office buildings.   |  |
| Information<br>Technology | Provide reliable IT equipment.  | The Township maintains IT hardware and software to facilitate service delivery.   |  |
| Fire                      | Maintain Fire-related assets in order to provide safe, reliable, and efficient Fire services. | The Township maintains vehicles and equipment related to protection services. In addition, the Township maintains and operates two fire stations.   |  |



Table 8 - Technical Levels of Service

| Asset<br>Category | Technical Level of Service   | Source         | Current LOS | Proposed LOS   |
|-------------------|--|----------------|-------------|--|
| Roads             | Number of lane-kilometres of arterial roads as a proportion of square kilometres of land area of the municipality (O. Reg. 588/17).  | 2024 Roads AMP | 0%          | Maintain Current<br>Level of Service                       |
|                   | Number of lane-kilometres of collector roads as a proportion of square kilometres of land area of the municipality (O. Reg. 588/17). | 2024 Roads AMP | 26%         | Maintain Current<br>Level of Service                       |
|                   | Number of lane-kilometres of local roads as a proportion of square kilometres of land area of the municipality (O. Reg. 588/17).     | 2024 Roads AMP | 158%        | Maintain Current<br>Level of Service                       |
|                   | 1. For paved roads in the municipality, the average pavement condition index value (O. Reg. 588/17).                                 | 2024 Roads AMP | 53          | Maintain Current LOS with improvements made where possible |
|                   | 2. For unpaved roads in the municipality, the average surface condition (O. Reg. 588/17).  | 2024 Roads AMP | 44          | Maintain Current LOS with improvements made where possible |
| Culverts          | Percentage of bridges in the municipality with loading or dimensional restrictions (O. Reg. 588/17).                                 | 2023 OSIM      | 13%         | 7%   |
|                   | For bridges in the municipality, the average bridge condition index value (O. Reg. 588/17).  | 2023 OSIM      | 76.20       | Maintain Current<br>LOS                                    |
|                   | For structural culverts in the municipality, the average bridge condition index value (O. Reg. 588/17).                              | 2023 OSIM      | 71.16       | Maintain Current<br>LOS                                    |



| Asset<br>Category     | Technical Level of Service   | Source                                       | Current LOS  | Proposed LOS   |
|-----------------------|--|--|--|--|
| Stormwater<br>Network | Percentage of properties in municipality resilient to a 100-year storm (O. Reg. 588/17).                         | 2025 Staff Consultation                      | Only a limited<br>number of<br>properties may be<br>affected | Only a limited<br>number of<br>properties may be<br>affected |
|                       | Percentage of the municipal stormwater management system resilient to a 5-year storm (O. Reg. 588/17).           | 2024 Roads AMP                               | 97%  | Maintain Current<br>LOS                                      |
|                       | % Of Total Catch basins cleaned annually   | 2025 Staff Consultation                      | 100%   | 50%  |
|                       | % of assets in "Fair" or Better condition  | 2025 AMP                                     | 95%  | Minimum of 95%   |
| Vehicles              | % of inspections completed required under the Highway Traffic Act  | 2025 Staff Consultation                      | 100%   | 100%   |
|                       | % of snowplows replaced every 10 years to maintain a sufficient backlog  | 2025 Staff Consultation                      | < 100%   | 100%   |
|                       | % of legislated MTO safety inspections completed   | 2025 Staff Consultation                      | 100%   | 100%   |
|                       | % of legislated MTO safety inspections met   | 2025 Staff Consultation                      | 100%   | 100%   |
|                       | % of assets in "Fair" or Better condition  | 2025 AMP                                     | 43%  | Minimum of 60%   |
| Parks & Recreation    | Percent of playgrounds that are fully compliant with current CSA standards.                                      | 2025 Staff Consultation                      | 100%   | 100%   |
|                       | Sports fields/diamond conditions meet Township standards to ensure proper performance and safety (grass cutting) | 2025 Staff Consultation                      | 100%   | 100%   |
|                       | Number of sports fields/courts per 1,000 population  | 2025 Staff Consultation<br>and 2024 DC Study | 1.6  | 1.6  |



| Asset<br>Category         | Technical Level of Service  | Source                                       | Current LOS | Proposed LOS    |
|---------------------------|---|--|-------------|-----------------|
|                           | Number of playgrounds per 1,000 population  | 2025 Staff Consultation<br>and 2024 DC Study | 0.68        | 0,68            |
|                           | Number of splashpads per 1,000 population   | 2025 Staff Consultation<br>and 2024 DC Study | 0.05        | 0.09            |
|                           | Kilometers of park trails per 1,000 population  | 2025 Staff Consultation<br>and 2024 DC Study | 0.45        | 0.45            |
|                           | Number of multi-purpose program rooms per 1,000 residents                                       | 2025 Staff Consultation<br>and 2024 DC Study | 0.14        | 0.14            |
|                           | Number of indoor ice pads   | 2025 Staff Consultation<br>and 2024 DC Study | 3           | 3               |
|                           | Average weighted condition assessment of Playgrounds  | 2025 AMP                                     | Fair        | Minimum of Fair |
|                           | Average weighted condition assessment of Sports Field/Courts                                    | 2025 AMP                                     | Poor        | Minimum of Fair |
|                           | Average weighted condition assessment of Parks & Recreation equipment, vehicles, and facilities | 2025 AMP                                     | Fair        | Minimum of Fair |
| Facilities                | % of regulated health and safety inspections completed (facilities are inspected monthly)       | 2025 Staff Consultation                      | 100%        | 100%            |
|                           | Square footage of library space per resident  | 2025 Staff Consultation                      | 0.74        | 0.7             |
|                           | % of assets in "Fair" or Better condition   | 2025 AMP                                     | 82%         | Minimum of 60%  |
| Information<br>Technology | % of assets in "Fair" or Better condition   | 2025 AMP                                     | 37%         | Minimum of 60%  |
| Fire                      | Regulated inspections are completed.  | 2025 Staff Consultation                      | 100%        | 100%            |
|                           | Front line trucks do not exceed 20 years of life.   | 2025 Staff Consultation                      | 100%        | 100%            |



| Asset<br>Category | Technical Level of Service  | Source                  | Current LOS | Proposed LOS    |
|-------------------|---|-------------------------|-------------|-----------------|
|                   | Average response time (min.) - Sub-urban Area (Port Perry)                        | 2025 Staff Consultation | N/A         | 10 min          |
|                   | Average response time (min.) - Rural Area (remainder of municipality)             | 2025 Staff Consultation | N/A         | 14 min          |
|                   | Average weighted condition assessment of Fire equipment, vehicles, and facilities | 2025 AMP                | Good        | Minimum of Fair |



# 4. Asset Management Strategy

This section sets out an action plan that will assist the Township in maintaining assets to meet proposed level of service objectives. The asset management strategy includes current practices and potential future practices related to non-infrastructure solutions, maintenance activities, renewal/rehabilitation, disposal, and expansion activities. It outlines the lifecycle costs needed to meet proposed levels of service over the next 10-years for each lifecycle activity and the methodology used to develop the costs. The final component of this section includes a risk analysis, which outlines a summary of assets that can be prioritized for repair/replacement if needed.

# A. OVERVIEW OF FULL LIFECYCLE COST MODEL

As part of the Asset Management Plan, the Township, along with Hemson, have identified the total full life cycle costs that corresponds to the requirements of the regulation. This would entail a cost estimation throughout the asset's life including planning, design, construction, acquisition, operation, maintenance, renewal (and disposal). In addition, the analysis also takes into consideration the inclusion of expansion related infrastructure into the lifecycle management strategy. This approach ensures that the additional lifecycle costs associated with newly constructed/acquired assets are accounted for in the long-term forecast, if any.

A "lifecycle management approach" in asset management planning not only includes estimating future lifecycle costs based on a set of lifecycle activities. These lifecycle activities can be segmented into six (6) categories: non-infrastructure solutions, operations/maintenance, renewal/rehabilitation, replacement, disposal, and expansion activities. Table 9 provides a description of each lifecycle category. The Township undertakes all the activities described in Table 9, however, the Township's budget generally accounts for these expenditures in different categories.



Table 9 - Overview of the Full Life Cycle Activities

| Category       | Description  |
|----------------|--|
| Non-           | Actions or policies that can lower costs or extend asset life (e.g., better integrated   |
| Infrastructure | infrastructure planning and land use planning, demand management, insurance,             |
| Solutions      | process optimization, etc.). Associated to work needed to manage assets but not          |
|                | necessarily direct work on those assets.   |
| Maintenance    | Servicing assets on a regular basis to fully realize the original service potential.     |
| Activities     | Maintenance will not extend the life of an asset or add to its value. Not performing     |
|                | regular maintenance may reduce an asset's useful life.                                   |
| Renewal/       | Mostly associated to significant repairs designed to extend the useful life of an        |
| Rehabilitation | asset. These types of activities are typically done at key points in the lifecycle of an |
| Activities     | asset to ensure the asset reaches it designed useful life.                               |
| Replacement    | Activities that are expected to occur once an asset has reached the end of its useful    |
| Activities     | life and renewal/rehabilitation is no longer an option.                                  |
| Disposal       | The activities associated with disposing of an asset once it has reached the end of      |
| Activities     | its useful life or is otherwise no longer needed.  |
| Expansion      | Planned activities required to extend or expand municipal services to accommodate        |
| Activities     | the demands of growth.   |

As the Township's infrastructure assets are long-lived, the starting point for the lifecycle costs analysis covers a 40-year planning period. However, consistent with *O. Reg. 588/17*, the planning period focuses on the first 10-years to meet proposed levels of service. In this period, various methodologies have been utilized to determine the long-term lifecycle costs to maintain, repair and replace assets under an "ideal" investment scenario. This means that the recommendations from all engineering reports are considered and assets are replaced at the end of their useful life with no adjustments or considerations for existing municipal asset practices or relationship to the target level of service. These costs are referred to as the "benchmark" lifecycle costs. Table 11 outlines the methodologies and 10-year costs to meet this ideal scenario. Over the 10-year period, the total lifecycle costs needed to maintain the infrastructure is estimated at \$417.6 million (an average of about \$41.8 million per year). Of the total lifecycle costs, most costs can be attributed to saving for the renewal, rehabilitation or replacement of infrastructure, making up about 78%. The 10-year average annual need specifically for renewal, rehabilitation or replacement of infrastructure is about \$32.6 million per year (see Table 10).

To determine the total lifecycle costs to meet proposed levels of service over the next 10-years, consultations with Township staff were undertaken to determine the best approach. Table 11 outlines the 10-year lifecycle costs needed to meet the proposed level of service. Over the 10-year period, a total need of about \$216.2 million is identified (an average of about \$21.6 million per year). Of the total lifecycle costs, most costs can be attributed to saving for the renewal, rehabilitation or replacement of infrastructure, making up about 58%. The 10-year average annual need specifically for renewal, rehabilitation or replacement of infrastructure is about \$12.5 million per year (see Table 10).

Table 10 – Average 10-Year Annual Renewal/Rehabilitation/ Replacement Need by Asset Category

| Accet Cotogowy     | 10-Year Benchmark | 10-Year PLOS   |
|--------------------|-------------------|----------------|
| Asset Category     | Annual Average    | Annual Average |
| Computer Equipment | \$332,000         | \$332,000      |
| Equipment          | \$660,000         | \$330,000      |
| Parking Lots       | \$498,000         | \$299,000      |
| Parks              | \$1,443,000       | \$866,000      |
| Vehicles           | \$2,309,000       | \$1,848,000    |
| Buildings          | \$6,446,000       | \$3,223,000    |
| Marine             | \$137,000         | \$69,000       |
| Streetlights       | \$65,000          | \$39,000       |
| Sidewalks          | \$502,000         | \$301,000      |
| Storm Sewer System | \$835,000         | \$501,000      |
| Bridges & Culverts | \$5,330,000       | \$1,009,000    |
| Roads              | \$14,084,000      | \$3,684,000    |
| Total              | \$32,641,000      | \$12,501,000   |

Table 11 - Overview of the Full Life Cycle Activities and AMP Approach

| Category   | Lifecycle Cost Approach to Meet PLOS   | 10-Year<br>Cumulative<br>Benchmark<br>Lifecycle Costs | 10-Year<br>Cumulative<br>Lifecycle Costs<br>to Meet PLOS |
|--|--|---|--|
| Non-Infrastructure Solutions                             | Provision of \$50,000 per year starting in 2026 to undertake activities to manage assets.  | \$450,000   | \$450,000  |
| Maintenance<br>Activities                                | <ul> <li>Based on a review of recent budgets by service area. Includes costs that can be reasonably attributed to asset specific maintenance – estimated at \$8.6 million per annum using the 2025 budget</li> <li>Includes incremental costs to maintain new infrastructure outlined in the Township's Development Charges Background Study.</li> <li>In most instances, does not include general operating costs associated to staffing (exp. staff that carry out recreational programs).</li> </ul>  | \$87 million  | \$87 million   |
| Renewal/<br>Rehabilitation/<br>Replacement<br>Activities | To provide some context on the roads PCI over time, the paved roads PCI has increased from 48 in the 2019 Roads AMP to 53 in the 2024 Roads AMP. Similarly, the unpaved roads PCI has increased from about 37 in the 2019 Roads AMP to 44 in the 2024 Roads AMP. Looking forward, renewal expenditures related to roads are based on the Long-Term and Short-Term Sustainability strategies identified in the 2024 Roads AMP. The Long-Term Sustainability strategy identifies annual funding need of \$15.4 million (including operating costs) to achieve a PCI of 73.6 by 2034. The Short-Term Sustainability strategy identifies annual funding of \$5.0 million (including operating costs) to achieve a PCI similar to current levels:  The benchmark lifecycle costs follow the Long-Term Sustainability strategy and assumes average annual expenditures of \$14.1 million (excluding operating costs) over the ten-year | \$326.4 million                                       | \$125.0 million  |
|  | period; this is incremental to what the Township currently budgets for the overall maintenance of roads.  o In order to maintain the Proposed Levels of Service of 53 PCI for Paved and Gravel Roads, it is assumed that the Township will budget \$3.7 million per year towards the renewal and rehab of roads; this is incremental to what the Township currently budgets for the Operations and Maintenance of roads.  • 10-year recommendations from 2023 OSIM report of about \$10.1 million.   |   |  |



| Category                | Lifecycle Cost Approach to Meet PLOS  | 10-Year Cumulative Benchmark Lifecycle Costs | 10-Year Cumulative Lifecycle Costs to Meet PLOS |
|-------------------------|---|--|---|
|                         | <ul> <li>Provisions for the long-term replacement of bridges and culverts beyond the 10-year period<br/>are included in the benchmark lifecycle costs but excluded from the PLOS costs. Future<br/>updates to lifecycle costs should be based on OSIM recommendations.</li> </ul>   |  |   |
|                         | Building lifecycle costs based on a combined approach of recommendations from 2023/2024 BCA plus the risk-based replacement schedule beyond the 10-year period.   |  |   |
|                         | <ul> <li>The benchmark lifecycle costs include the provisions for the long-term replacement of<br/>buildings and components beyond the 10-year period. This is in addition to the 10-year<br/>recommended needs of \$13.7 million from the 2023/2024 BCA.</li> </ul>  |  |   |
|                         | <ul> <li>For the proposed level of service, only 50% of the benchmark lifecycle costs has been used to<br/>recognize repair activities rather than full replacement.</li> </ul>   |  |   |
|                         | Risk based replacement schedule for all other asset categories.   |  |   |
|                         | <ul> <li>For equipment and marine assets, only 50% of the replacement value has been used to<br/>recognize repair activities rather than full replacement of some of the assets.</li> </ul>   |  |   |
|                         | <ul> <li>For parking lots, parks, streetlights, sidewalks and storm sewer system, only 60% of the replacement value has been used to recognize repair activities rather than full replacement. Many of the assets in these categories are long-lived and are not management based on a set replacement schedule, rather on an "as needed" basis.</li> </ul> |  |   |
|                         | <ul> <li>For vehicles, only 80% of the replacement value has been used to recognize that the         Township undertakes some repair activities that have extended the useful life of some         vehicles. Also recognizes not all vehicles are replaced at the end of their life.     </li> </ul>  |  |   |
| Expansion<br>Activities | Annual provisions for the future replacement of infrastructure related to expansion activities, as identified in the 2024 Development Charges Background Study, amounts to a total of \$3.8 million over the ten-year period.   | \$3.8 million                                | \$3.8 million                                   |



| Category   | Lifecycle Cost Approach to Meet PLOS  | 10-Year<br>Cumulative<br>Benchmark<br>Lifecycle Costs | 10-Year Cumulative Lifecycle Costs to Meet PLOS |
|--|---|---|---|
|  | No additional allocation has been made for contributed assets in this analysis. However, as infrastructure is emplaced through the subdivision agreement process, the Township should calculate the long-term repair and replacement requirements of that infrastructure. |   |   |
| Cumulative Total   |   | \$417.6 million                                       | \$216.2 million                                 |
| Average per Year   |   | \$41.8 million  | \$21.6 million                                  |
| Average per Year (for Renewal/ Rehabilitation/ Replacement Activities) |   | \$32.6 million  | \$12.5 million                                  |

Note: All costs expressed in constant 2025 dollars.



## B. RISK ANALYSIS

It is important to assess the risk associated with each asset and the likelihood of asset failure. Asset failure can occur as the asset reaches its limits and can affect the level of service. In addition, certain assets have a greater consequence of failure than others. A risk matrix can help prioritize which assets should be repaired/replaced, even those which the Township has already identified to be in Poor or Very Poor condition. The evaluation rating is then linked to the condition assessment parameter discussed in Section 2. The formula to determine asset risk is as follows:

## (Likelihood of Failure) X (Consequence of Failure) = (Risk Rating)

Each of the components of the Risk Rating methodology is defined as follows:

**Likelihood of Failure:** is directly linked to the condition of an asset. For example, an asset in Very Poor condition would have the probability of asset failure in the short-term be high. This type of asset may be near the end of its useful life or has deteriorated significantly. Conversely, it would be considered rare for an asset to fail in the short-term if it is in Good or Very Good condition. Table 12 outlines the definition of likelihood of failure used for the Township's assets.

Table 12 - Probability of Failure

| Condition | Probability of<br>Failure | Description    |
|-----------|---------------------------|----------------|
| Very Good | 1                         | Rare           |
| Good      | 2                         | Unlikely       |
| Fair      | 3                         | Possible       |
| Poor      | 4                         | Likely         |
| Very Poor | 5                         | Almost Certain |

Note: Definitions are based on the MFOA Asset Management Framework.

Consequence of Failure: refers to the impact on the Township if an asset were to fail to provide the desired level of service. The consequence of failure has been determined separately for each asset category, as the impact to the Township differs greatly by asset type. For example, if a fire emergency vehicle was not available for service, the potential impact could be severe compared to a vehicle used for administrative purposes. For the purposes of this analysis, assets were assigned a consequence of failure based on a review of the assets and the service area they are attributed to. Table 13 below outlines the definition of consequence of failure used for the Township's assets. The consequence of

failure, rated on a 1-5 scale, was weighted relative to each category in Table 13 depending on how impactful the consequence may be to the Township.

Table 13 - Consequence of Failure

| Consequence of Failure | Description  |
|------------------------|--|
| 1 - Insignificant      | No impact to operations.   |
| 2 - Minor              | Minor impact to operations, all major operations can continue to function. |
| 3 - Moderate           | Moderate impact to operations some critical operations may need to stop    |
| 5 - Moderate           | functioning temporarily.   |
| 4 - Major              | Major operations seize and some damage control necessary.                  |
| 5 - Significant        | All operations seize to function and major damage control is necessary.    |

**Risk Rating:** categorizes assets based on the level of risk to the Township. The risk rating provides a guide to prioritize assets by determining which assets require attention first and which capital works can be deferred. Higher risk assets should be prioritized for attention in the short term by determining which of the lifecycle actions is required to be performed on the asset. Table 14 below provides a summary of the risk matrix.

Table 14 - Risk Matrix

| Evaluation Poting    |   | Consequence of failure |    |    |    |    | Color Code     |
|----------------------|---|------------------------|----|----|----|----|----------------|
| Evaluation Rating    |   | 1                      | 2  | 3  | 4  | 5  | Color Code     |
| of                   | 1 | 1                      | 2  | 3  | 4  | 5  | Very Low Risk  |
| _                    | 2 | 2                      | 4  | 6  | 8  | 10 | Low Risk       |
| ikelihood<br>Failure | 3 | 3                      | 6  | 9  | 12 | 15 | Moderate Risk  |
| ikel<br>Fa           | 4 | 4                      | 8  | 12 | 16 | 20 | High Risk      |
| _                    | 5 | 5                      | 10 | 15 | 20 | 25 | Very High Risk |

Table 15 presents the findings of the risk analysis and illustrates the Township's asset risk rating. Most of the Township's assets continue to have relatively low risk, an indication of good maintenance practices overall.

The risk of each asset and asset category has been determined with reference to the parameters outlined in Table 14. It is important to note, that the Township will need to continue regular maintenance activities and capital works to ensure that the proposed level of service can be met, or otherwise additional risk can be expected. Please note roads, buildings and bridges and culverts have been excluded from the risk analysis in Table 15 as the infrastructure needs and timing of repair and replacement has been informed based on detailed engineered assessments outlined through the 2024 Roads AMP, the 2023/2024 BCA Reports and 2023 OSIM reports respectively.



Table 15 - Summary Risk Assessment (excluding Roads, Buildings, Bridges and Culverts)

| Asset Type         | Replacement Cost | Risk               |
|--------------------|------------------|--------------------|
|                    | 2025             | (Weighted Average) |
| Computer Equipment | \$1,597,360      | Low                |
| Equipment          | \$4,595,890      | Low                |
| Parking Lots       | \$4,050,880      | Moderate           |
| Parks              | \$13,603,900     | Low                |
| Vehicles           | \$15,756,459     | Moderate           |
| Marine             | \$1,680,060      | Low                |
| Streetlights       | \$1,103,061      | Very Low           |
| Sidewalks          | \$20,592,000     | Very Low           |
| Storm Sewer System | \$22,836,890     | Low                |
| Total              | \$85,816,500     | Very Low           |

Note: Roads, Buildings, Bridges and Culverts are excluded from the risk analysis as risk factors and prioritization have been addressed through the 2024 Roads AMP, 2023/2024 BCA Report, and 2023 OSIM reports respectively.

Further to Table 15, the 2025 AMP includes an estimate of the timing for replacement of all assets. Using the risk assessment, a schedule for the replacement of assets has been developed on an asset-by-asset basis. Assets with a higher risk rating are prioritized earlier in the schedule to reflect a higher priority, while assets with lower risk ratings are moved further out into the future forecast to reflect a more "smoothed" expenditure outlook. The timing is based on a percentage of the useful life of the asset. Table 16 below provides a summary of the risk thresholds used to calculate timing of replacement needs. Section 5 discusses the results of the lifecycle cost analysis and financing strategy.

Table 16 - Risk Threshold for Asset Life Extension

| Percentage of Useful Life Added |     |     |     |     | Color Code     |
|---------------------------------|-----|-----|-----|-----|----------------|
| 100%                            | 80% | 60% | 40% | 20% | Very Low Risk  |
| 80%                             | 65% | 50% | 30% | 16% | Low Risk       |
| 60%                             | 50% | 35% | 25% | 10% | Moderate Risk  |
| 40%                             | 30% | 25% | 15% | 2%  | High Risk      |
| 20%                             | 16% | 10% | 2%  | 0%  | Very High Risk |

### C. MANAGING RISK

It is important to recognize the risk associated with the Township's ability to deliver the plan while recognizing that any deviation may affect the overall ability to deliver service. Table 17 below provides a summary of the identified risks, potential impacts and mitigating actions



associated with the asset management program. Table 17 is intended to provide the Township with a framework that can be continually updated. This framework can be used to track potential asset related risks and document mitigation actions so that they can be implemented into the Township's asset management practices.

Table 17 -Risk Associated to the Plan

| Risk Associated to the Plan |  |   |  |  |
|-----------------------------|--|---|--|--|
| Identified Risk             | Potential Impact                                   | Mitigating Action                                     |  |  |
| Failed Infrastructure       | Delivery of service                                | Repair and rehabilitate as                            |  |  |
| (Condition or Level of      | <ul> <li>Asset and equipment damage</li> </ul>     | necessary   |  |  |
| Service Needs)              |  | <ul> <li>Increase investment</li> </ul>               |  |  |
| Inadequate Funding          | Delivery of service                                | <ul><li>Reductions of service by</li></ul>            |  |  |
|                             | <ul><li>Increased risk of failure</li></ul>        | reviewing the current level of                        |  |  |
|                             | ■ Shorten asset life                               | service   |  |  |
|                             | <ul> <li>Defer funding to future</li> </ul>        | <ul> <li>Find additional revenue sources</li> </ul>   |  |  |
|                             | generations  |   |  |  |
| Regulatory                  | Non-compliance                                     | <ul> <li>Find additional revenue sources</li> </ul>   |  |  |
| Requirements                | <ul><li>Mandatory investments</li></ul>            | <ul><li>Lobby actions</li></ul>                       |  |  |
|                             | <ul><li>Increased costs</li></ul>                  |   |  |  |
| Plan is not followed or     | <ul><li>Shorten asset life</li></ul>               | <ul> <li>Monitor and review levels of</li> </ul>      |  |  |
| not undertaking             | <ul><li>Inefficient investments</li></ul>          | service   |  |  |
| required lifecycle          | <ul> <li>Prioritization process failure</li> </ul> | <ul> <li>Implement process to implement</li> </ul>    |  |  |
| activities                  | <ul> <li>Failure to deliver service</li> </ul>     | AMP   |  |  |
|                             |  | <ul> <li>Investigate alternative lifecycle</li> </ul> |  |  |
|                             |  | management options                                    |  |  |

### D. FUTURE DEMAND

The 2025 Plan largely focuses on the assets that the Township currently owns and operates. According to Statistics Canada census, over the last 10 years (2011-2021) the Township's population has generally stayed constant (from 21,569 in 2011 to 21,581 people in 2021), representing little growth. However, the Township is expecting higher growth in the future which will create the need for additional infrastructure to service new development. Moving forward, by 2034, the Township's population is expected to increase to about 23,900 people with occupied households increasing to 9,200 over the same period. As per the Township's 2024 Development Charges Background Study<sup>3</sup>, the increase over the 10-year period from

<sup>&</sup>lt;sup>3</sup> The DC Background Study covers the planning period from 2024 to 2033. The development forecast has been prorated to align with the timing of this asset management plan to 2034.



2025 to 2034 is approximately 1,784 persons and 770 households. Lastly, Place of Work employment is projected to grow by about 604 employees over the period reaching about 9,000 by  $2034^4$ .

#### E. CLIMATE CHANGE INTEGRATION

The management of a municipal assets plays a fundamental role in the delivery of services, which depends on the infrastructure available to deliver the service. Corporate asset management in municipalities largely relates to the management of existing assets to keep them in a state of good repair while planning for future repair and/or replacement of their assets across all service areas. Impacts of climate change are already being experienced around the world, including Canada. It is important for municipalities to begin considering and planning for future climates to ensure the delivery of services, especially as it pertains to the maintenance of key municipal infrastructure. As per *Ontario Regulation 588/17* s3(5), municipalities must include a commitment in their asset management planning to address the vulnerabilities of climate change with respect to operations, levels of service and lifecycle management. There must also be consideration for anticipated costs, mitigation and adaptation approaches and disaster planning to meet all regulatory requirements in Ontario municipal asset management. In response to the regulatory requirements, the Township adopted its first Strategic Asset Management Policy in 2019 and committed to integrating climate change as part of its asset management planning.

Expected climate change impacts include hotter, drier summers, warmer winters with increased precipitation, increased frequency and intensity of storms and increased intensity of extreme winds. These changes in climate will likely lead to increased risks associated with flooding, heatwaves, risk of infrastructure damage, health and safety of residents, the alteration or loss of habitats, etc.

Many of these risks are associated with municipal assets and may impact the levels of service. Climate change mitigation and adaptation planning is an important step for municipalities to take to begin managing risks associated with climate change. Therefore, the Township is taking steps towards the integration of climate change considerations into their asset management planning framework moving forward.

<sup>&</sup>lt;sup>4</sup> Employment figures referenced are from the DC Study which utilizes place of work employment values. Place of work employment considers where people work irrespective of their residence. Work at home employment is excluded from these figures.



The table below considers municipal owned and operated assets, although, regional critical infrastructure related to roads or public health may also be impacted by the noted hazards. Table 18 provides a risk summary at this time for information purposes to help further propel climate change integration with asset management, although, recognizing the full utilization would still need to be applied and understood at the staff level. In asset management terms, this table shows the big picture effects that climate change hazards may have on the level of service for various service areas. The specific climate change impacts on levels of service could vary considerably and will need to be monitored over a longer time-period.

Through further understanding of the anticipated extent of climate change events, climate change adaptation projects at the Township will provide additional parameters as to the likelihood and severity of events. At its most simplistic form, the table below provides a range from a "rare" occurrence to "almost certain." A rare occurrence could be correlated to falling into the tenth percentile of probability, with an almost certain occurrence falling into the ninetieth percentile of probability.

Table 18 - Framework for Climate Change Integration with Risk

| Hazards/Risks Likelihood               |                        | Consequence  |   |  |  |
|--|------------------------|--|---|--|--|
| nazarus/ Risks                         | Likelihood             | Asset Category   | Possible Service Impacts  |  |  |
| Freezing Rain /<br>Ice Storm           | Rare to almost certain | <ul> <li>Roads</li> <li>Bridges and<br/>Culverts</li> <li>Buildings</li> <li>Storm Sewer<br/>System</li> </ul> | <ul> <li>Reduced road, bridge, and culvert conditions, potential for closures</li> <li>Potential impact to access to facilities or closures</li> <li>Strain on storm sewer capacity on thaw</li> </ul>              |  |  |
| Extreme<br>Temperatures –<br>Cold Wave | Rare to almost certain | <ul> <li>Roads</li> <li>Bridges and Culverts</li> <li>Buildings</li> <li>Land Improvements</li> </ul>          | <ul> <li>Closures of outdoor amenities due to extreme weather conditions</li> <li>Increased strain on indoor heating systems leading to reduced service life and functionality of components and systems</li> </ul> |  |  |
| Tornado                                | Rare to almost certain | All Services   | <ul> <li>Potential damage to various<br/>municipal assets due to high<br/>winds</li> </ul>  |  |  |

| Hananda /Diala                         | Likelihood             | Consequence   |   |  |  |
|--|------------------------|---|---|--|--|
| Hazards/Risks                          |                        | Asset Category  | Possible Service Impacts  |  |  |
| Intense Rain                           | Rare to almost certain | <ul> <li>Roads</li> <li>Bridges and Culverts</li> <li>Buildings</li> <li>Storm Sewer System</li> </ul>                            | <ul> <li>Flooding of bridges, culverts and roadways leading to closures</li> <li>Disruptions to service due to flooding of roads, leading to decreased levels of service</li> <li>Potential impact to access to facilities or closures</li> <li>Strain on storm sewer capacity causing floods</li> </ul>  |  |  |
| Flood – Urban                          | Rare to almost certain | <ul> <li>Roads</li> <li>Bridges and Culverts</li> <li>Buildings</li> <li>Land Improvements</li> <li>Storm Sewer System</li> </ul> | <ul> <li>Flooding of culverts and roadways leading to closures</li> <li>Disruptions to service due to flooding of roads, leading to decreased levels of service</li> <li>Potential impact to access to facilities or closures</li> <li>Flooding of parks leading to closures and reduced levels of service</li> <li>Strain on storm sewer capacity</li> </ul> |  |  |
| Extreme<br>Temperatures –<br>Heat Wave | Rare to almost certain | <ul><li>Buildings</li><li>Land</li><li>Improvements</li></ul>   | <ul> <li>Potential closure/reduce used of outdoor amenities due to high temperatures (reduced levels of service).</li> <li>Lost habitats leading to reduced environmental diversity.</li> <li>Increased strain on indoor cooling systems leading to reduced service life and functionality of components and systems</li> </ul>                               |  |  |
| Windstorm                              | Rare to almost certain | <ul><li>Buildings</li><li>Land</li><li>Improvements</li></ul>   | <ul> <li>Closure of outdoor assets due to potential hazards for residents</li> <li>Increased strain on facility assets leading to potential damages and reduced service life and functionality of components and systems</li> </ul>   |  |  |

Source: https://www.assetmanagementbc.ca/wp-content/uploads/Climate-Change-and-Asset-Management.pdf



### 5. FINANCING STRATEGY

The Township has continually undertaken both operating and capital expenditures necessary for to maintain tax funded services, however, the investments made fall short of the required need to meet the proposed levels of services. The Township will need to monitor funding levels over the next few years in relationship to the levels of service. This section of the 2025 Plan is intended to help the Township build on the existing asset management practices already in place. The financing strategies presented provide the Township with feasible options to increase capital funding in a sustainable manner to meet proposed levels of service. It is noted that all values are presented in constant 2025 dollars.

### A. ANALYSIS OF AVAILABLE REVENUES

The municipal revenue sources available to address the identified full lifecycle cost requirements outlined in Section 4 are limited. Generally, the type of capital project aligns to its funding source. In this regard, growth-related projects receive most of their funding through development charges in communities that impose DCs; replacement projects are predominantly funded through tax-based contributions for tax supported assets.

When assets require rehabilitation or are due for replacement, the source of funds are essentially limited to reserves or contributions from the operating budget regardless of how the initial first round capital asset was funded. The table below provides a summary of the revenues assumed in this analysis for tax supported assets.

Table 19 - Financing Strategy Key Assumptions for Tax Supported Assets

| Category       | Assumptions   | Cumulative 10-<br>Year Revenue at |
|----------------|---|-----------------------------------|
|                |   | Current Levels                    |
| Operations and | The service areas provide ongoing maintenance and                 | \$87 million                      |
| Maintenance    | support activities that preserve the condition or                 |                                   |
| from Taxation  | performance of assets and ensures the longevity of assets         |                                   |
|                | in line with their design and operational requirements.           |                                   |
|                | These maintenance activities are funded through the               |                                   |
|                | Township's regular operating budget and it has been               |                                   |
|                | assumed that revenues from taxation/user fees will                |                                   |
|                | continue to fully fund existing asset maintenance needs.          |                                   |
| Dedicated Levy | ■ The 2025 Total Tax Levy is \$19.3 million. Of this total, \$5.1 | \$51.3 million                    |
| (3% Roads;     | million is dedicated towards the capital costs associated         |                                   |



| Category                                       | Assumptions  | Cumulative 10-<br>Year Revenue at<br>Current Levels |
|--|--|---|
| 0.5% Facilities and 0.5% Fleet)                | with maintaining Roads, Facilities, and Fleet in a state of good repair funded through the 4% dedicated levy. This value is assumed to be the starting point and base case for increasing annual capital contributions. This includes the capital from operating funding and contributions to reserves net of transfers from reserves or capital related grant funding.  To calculate the base revenue, the \$5.1 million is maintained over the 10-year period. |   |
| Canada<br>Community<br>Building Fund<br>(CCBF) | Gas tax funding for 2025 is equal to approximately \$707,000. This amount has been assumed in 2025 and 2026. For the remainder of the ten-year period, gas tax funding of \$735,000 is assumed annually. These values are informed based on the AMO allocations.   | \$7.3 million                                       |
| Other Grants                                   | <ul> <li>OCIF annual allocations of \$819,000 are included only over the first 5 years</li> <li>Solar Fund revenue is assumed over the 10-year period at \$50,000 annually</li> </ul>  | \$4.6 million                                       |
| OLG  | <ul> <li>OLG funds of \$1.1 million are budgeted for 2025. For the<br/>remainder of the ten-year period, the annual funding is<br/>assumed to be equal to the 5-year historical average of<br/>OLG money received, amounting to \$980,000 annually.</li> </ul>   | \$9.9 million                                       |
| Existing<br>Reserves                           | <ul> <li>Existing asset management related reserve funds of \$6.3 million have been accounted for and are applied against the lifecycle cost expenditures over a 10-year period for the purposes of the analysis.</li> <li>The reserves included in the analysis only capture funds available for capital and generally exclude operating reserves.</li> </ul>   | \$6.3 million                                       |
| Total  |  | \$166.3 million                                     |

### B. BENCHMARK INFRASTRUCTURE FUNDING GAP

To implement sustainable asset management practices the Township needs to understand the current "benchmark infrastructure funding gap" that would arise should the required full lifecycle costs related to capital be delayed. The funding gap shown in Figure 7 represents



the difference between the benchmark lifecycle costs and the funding available for tax supported assets over the 10-year period from 2025 to 2034. The benchmark funding gap represents a measure of the "ideal" spending that would need to be undertaken if all assets were repaired or replaced as outlined in the engineered reports used to inform the 2025 AMP or on their design life, versus the case if funding levels were maintained at current levels (see Table 19). Figure 7 indicates that existing funding levels are insufficient to cover projected costs over the 10-year planning period, as a result, a notional gap of \$251.3 million exists over the same period.



Figure 7 – 10-Year Need vs Funding (Benchmark Funding Gap for Tax Supported Assets)

If the Township were to implement a funding strategy to eliminate the benchmark funding gap, the Township would be required to increase the yearly dedicated tax levy to about 23% (up from the current 4%), translating to about a \$4.6 million increase in capital contributions in 2026 and an average increase of approximately a \$5.8 million on an annual basis over the ten-year period. For 2025, the increase would be in addition to the funding sources already identified in Table 19. A detailed table of this strategy can be found in Appendix B.

It is unrealistic to expect the Township to address the total benchmark funding gap in the short-term. Eliminating the gap by 2034 is an aggressive objective - a few reasons include:

The required increase to the dedicated tax levy, and subsequently the capital contributions (to eliminate the gap) are beyond a reasonable measure, considering the Township has historically maintained a dedicated tax levy of 4%;

- The Township would need to decrease or limit funding of other key services or initiatives in lieu for capital repair and replacement activity;
- Importantly, closing the benchmark funding gap would ultimately result in a service level increase beyond those targeted in this report over the long-term;
- Assets can remain in use past their engineered design life and can perform to meet the Township's level of service under these circumstances. Therefore, in such instances, the asset does not necessarily need to be replaced by virtue of exceeding their design life;
   and
- Prudent asset management strategies, which are currently employed by the Township
  can often extend the requirement of major repair or replacement of capital assets and
  may prolong the life of the asset.

Therefore, a long-term lifecycle cost and funding strategy that reflects the proposed level of service shown in Section 4 would need to be developed.

## C. PROPOSED LEVEL OF SERVICE INFRASTRUCTURE FUNDING GAP

The 2025 AMP combines the analysis on proposed levels of service developed in Section 3 with the corresponding lifecycle costs in Section 4 to develop a 10-year adjusted funding gap analysis that considers a more manageable set of costs to meet proposed levels of service (PLOS funding gap). The funding gap shown in Figure 8 represents the difference between the lifecycle costs needed to meet proposed levels of service and the funding available for tax supported assets over the 10-year period from 2025 to 2034.

The PLOS funding gap represents a measure of the spending that would need to be undertaken to meet proposed levels of service as shown in Section 4 versus the case if funding levels were maintained at current levels. Figure 8 still indicates that existing funding levels are insufficient to cover projected costs over the 10-year planning period, as a result, a funding gap of \$49.9 million exists over the same period. Notably, the funding gap under the proposed level of service target is significantly reduced from the benchmark gap of \$251.3 million over the planning period (see Table 11 for adjustments to the 10-year Need).





Figure 8 – 10-Year Need vs Funding (Proposed Level of Service Funding Gap for Tax Supported Assets)

#### FINANCING STRATEGY TO MEET PROPOSED LEVEL OF SERVICE D.

A financing strategy was developed to meet the full lifecycle cost needs to meet proposed levels of service as show in Figure 8. Figure 9 shows the financing strategy and the resulting funding gap the figure illustrates a funding strategy that maintains the Township's current dedicated tax levy of 4%. If the Township maintains the 4% dedicated levy, it would generate and additional \$36.3 million over the 10-year period. The cumulative funding gap would then be \$13.6 million by the end of the ten-year period. In the absence of the 4% dedicated levy, this gap would result in the \$49.9 million gap in Figure 8 and could result in the Township failing to achieve the proposed levels of service and potentially decreasing in the service levels the Township provides its community. Therefore, it is highly recommended that the Township continue to maintain a dedicated levy of 4% towards the renewal and rehabilitation of its assets going forward while the residual gap will be monitored so the Township can adjust its practices over the planning to meet the levels of service.

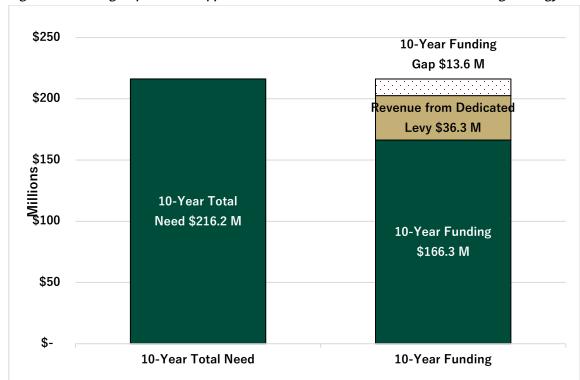


Figure 9 – Funding Gap for Tax Supported Assets under the Recommended Financing Strategy

## E. FINANCING STRATEGIES AND THE RELATIONSHIP TO THE PROPOSED LEVEL OF SERVICE

The information illustrated previously emphasizes the need for the Township to continue the utilization of these funding programs to meet service levels over the long-term. However, as the Township's asset management program further advances, it can be expected that the cost analysis be improved to better reflect asset risks, levels of service and a better understanding of the condition of the infrastructure. Overall, the financing strategies presented in Section 5.D. do not close the cumulative funding gap required to achieve the proposed levels of service identified in Section 3 of the AMP for both core and non-core infrastructure assets. Thus, other qualitative improvements and financial solutions need to be explored to aid in achieving the proposed levels of service. Table 20 outlines several approaches to closing the funding gap.

Table 20 – Approaches to Closing the Funding Gap

| Category           | Description  |
|--------------------|--|
|                    | As the Township matures its asset management practices,          |
|                    | improving data quality across service areas will help to achieve |
| Improved Data      | a proper assessment of the condition of assets. Improved         |
| Quality            | lifecycle cost data will facilitate evidence-based decision      |
|                    | making and support in achieving lowest lifecycle costing         |
|                    | through prioritization of repair and replacement activities.     |
| Levels of Service  | As part of the 2025 AMP, levels of services measures by asset    |
| Measures           | category have been established. Tracking LOS measures may        |
|                    | identify areas where funding needs could be recalibrated based   |
|                    | on performance.  |
| Assessing Risk     | Further detailed risk analysis including defining risk tolerance |
| Tolerance          | level for individual asset classes will help to further refine   |
|                    | prioritization of the investment needs and levels of service.    |
|                    | Although not always desirable, it may be possible to accept a    |
|                    | higher degree of asset risk to help lower ongoing asset costs.   |
| Seek Funding       | The Township continues to demonstrate a significant              |
| Support from Upper | commitment to asset management and developing a set of           |
| Levels of          | renewal practices to ensure that services are delivered in the   |
| Government         | most cost-efficient manner.                                      |
|                    | Despite the efforts, upper level of government support is        |
|                    | required to supplement the Township's practices to balance       |
|                    | affordability. For long-term financial planning and accurately   |
|                    | assessing the infrastructure gap, it is equally important that   |
|                    | upper-level government funding is stable and predictable.        |
| Continued Project  | In exploring opportunities with the Durham Region, overall cost  |
| Co-ordination with | efficiencies may be achieved during linear asset rehabilitation  |
| the Regional       | and replacement (e.g. storm sewers, roads, bridges, culverts)    |
| Infrastructure     | by better aligning capital ventures (if applicable).             |
| Projects           |  |

### 6. Monitoring and Improvement Plan

The major premise of a comprehensive asset management plan is that a municipality will seldom have perfect processes and data to manage the asset portfolio. Instead, the underlying culture of continuous improvement and reliability is its key to success. The monitoring and improvement plan forms part of the Township's evolving asset management planning moving forward. It has been developed using an asset management maturity scale to assess areas for improvement.

#### A. ASSET MANAGEMENT MATURITY ASSESSMENT

The purpose of an asset management maturity assessment is to identify a municipality's current maturity and to establish a target maturity that can be reasonably achieved in the near future. Using the International Infrastructure Management Manual (IIMM) tool, information on asset maturity was assessed under three categories:

- 1. Understanding and Defining the Requirements
- 2. Development of Asset Management Lifecycle Strategies
- 3. Asset Management Enablers

The three maturity categories are broken down into 16 elements that are assessed in the individual Asset Maturity Radar Graph in Figure 10. The elements in each maturity category are outlined in Table 21.

Table 21 - Asset Management Maturity Assessment Elements

| Category   | AM Element   |
|--|--|
|  | Analysing the Strategic Initiatives (AM Policy and Objectives) |
| Understanding and                                  | Levels of Service Framework                                    |
| Understanding and Defining the                     | Demand Forecasting and Management                              |
| Requirements                                       | Resilience to Climate Change                                   |
| Requirements                                       | Asset Condition and Performance                                |
|  | The Strategic Asset Management Plan                            |
| Davidaning Asset                                   | Managing Risk and Resilience                                   |
| Developing Asset  Management  Lifecycle Strategies | Operational Planning   |
|  | Capital Works Planning   |
|  | Asset Financial Planning and Management                        |

| Category         | AM Element                                  |
|------------------|---|
|                  | AM Plans (for the Asset Portfolio Assets)   |
|                  | AM People and Leaders                       |
|                  | Asset Data and Information                  |
| Asset Management | Asset Information Management Systems (AIMS) |
| Enablers         | AM Process Management                       |
|                  | Outsourcing and Procurement                 |
|                  | Continual Improvement                       |

Each element is assessed independently and assigned a score based on criteria outlined in Table 22 which scores each criteria between 0 and 100 for each element. In general, a municipality in the "Aware" category recognizes that there are regulatory or service requirements that need to be met to maintain levels of service. However, no formal plans are in place to meet these objectives and asset management planning may be done on an ad hoc basis. A municipality in the "Advanced" category has integrated the asset management plan into its budget process and budget planning is well informed by the asset management plan. In general, most municipalities would fall in the "Core" or better category, for this reason the target score would be to achieve an "Intermediate" score over the longer-term.

Table 22 – Maturity Assessment Scoring Scale

| Maturity Level | Score  |
|----------------|--------|
| Aware          | 0-20   |
| Basic          | 21-40  |
| Core           | 41-60  |
| Intermediate   | 61-80  |
| Advanced       | 81-100 |

Figure 10 outlines the results of the Asset Maturity Rating. The Current Score accounts for all advancements in individual maturity as part of this 2025 AMP. Overall, the following were achieved:

- Understanding of levels of service focused on the condition of assets which is appropriate for the size and services provided by the Township;
- Enhancement in understanding the Township's asset management practices and general alignment with other key planning documents like the 2024 Roads AMP, BCA reports and OSIM reports; and



 General understanding of the Township's assets and the data available through consolidation of various data sources into the AMP financial model.

Figure 10 – Asset Maturity Rating



#### B. IMPROVEMENT PLAN

Continuous improvement is a fundamental aspect of municipal asset management. This process involves systematically identifying areas for enhancement, implementing changes, monitoring outcomes, and adjusting strategies based on feedback and new insights. The goal of the municipal asset management planning regulation (O. Reg. 588/17) is to promote municipalities to take incremental steps to maximize benefits, manage risk and provide satisfactory levels of service to the public in a cost-effective manner.

Improvement initiatives have been identified that will enhance the effectiveness of the Township's asset management program. The following table provides recommended improvement initiatives with associated priorities and timelines. While some areas for improvement can be addressed more immediately, others could be undertaken over the long-term.



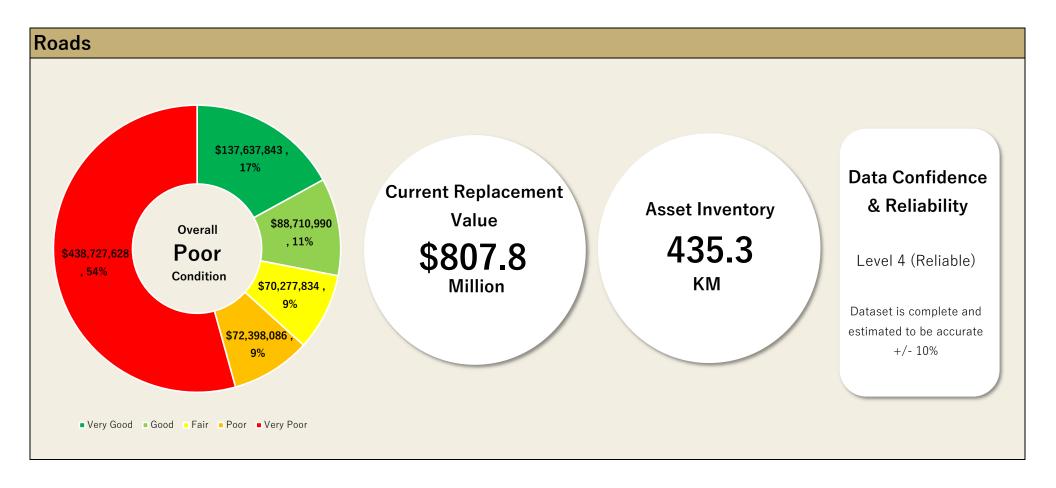
Table 23 – Improvement Plan Initiatives

| Area of                          | Action  | Outcome   | Timeline | Priority | Comments   |
|----------------------------------|---|---|----------|----------|--|
| Improvement                      | 7.00.011  | - Cuttoniio   |          |          |  |
| Levels of<br>Service             | Align AMP with budget process   | Determine capital contributions   | Medium   | Medium   | Ensuring that the AMP remains up today will help guide tax funded capital contributions needs to meet long-term asset management needs                       |
| Climate<br>Change<br>Integration | Further development of mitigation and adaptation strategies into asset management | Further understanding of climate change risks on Township's delivery of services and support informed prioritization of strategies. | Long     | Medium   | The Strategic Asset Management Policy requires a commitment to integrate climate change considerations through capital planning.                             |
| Asset Data                       | Continually<br>update the asset<br>inventory                                      | More informed decision making for capital budget purposes   | Medium   | Medium   | The AMP needs to be updated every 5-years as per regulation after 2025, this is an opportunity to ensure asset data including conditions remains up to date. |

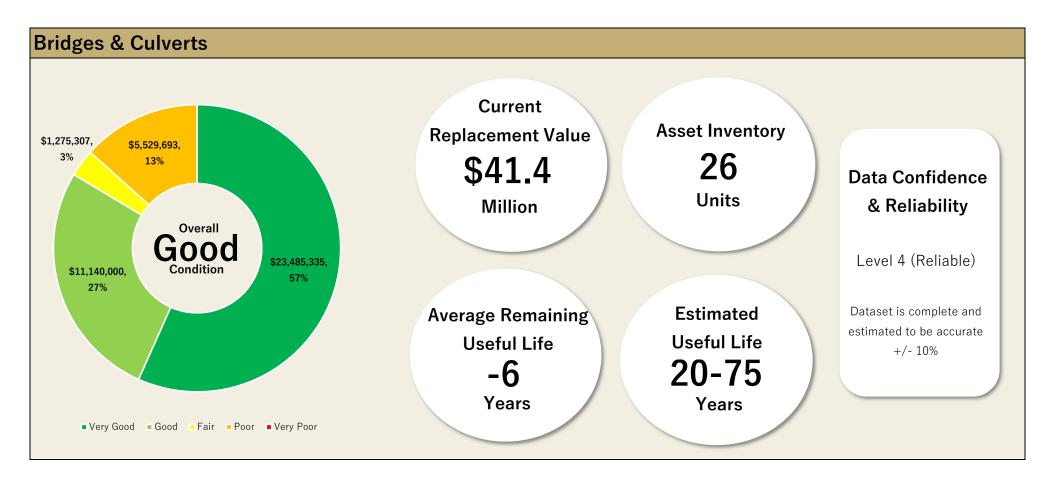
| Area of Improvement   | Action   | Outcome   | Timeline | Priority | Comments  |
|-----------------------|--|---|----------|----------|---|
| Financing<br>Strategy | Continue to monitor infrastructure gap               | Continue to monitor funding needs to meet proposed level of service     | Medium   | Medium   | While infrastructure gap has been monitored as part of this plan, it will need to be updated along with regular reviews of the AMP in the future. |
|                       | Seek funding support from upper levels of government | Continue bridging of funding gap for improved financial sustainability. | Long     | High     | The Township expects to continue to rely on grant funding for capital projects.   |

# APPENDIX A STATE OF LOCAL INFRASTRUCTURE

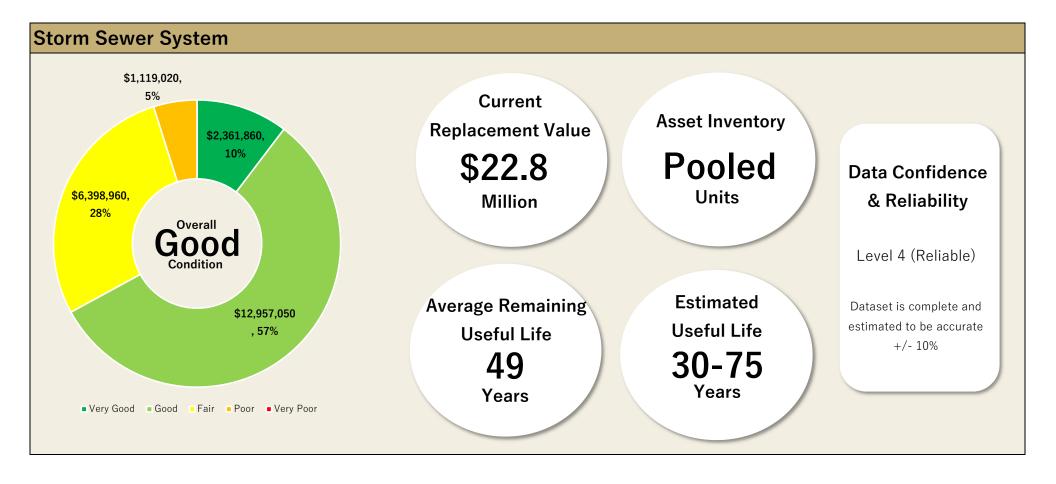




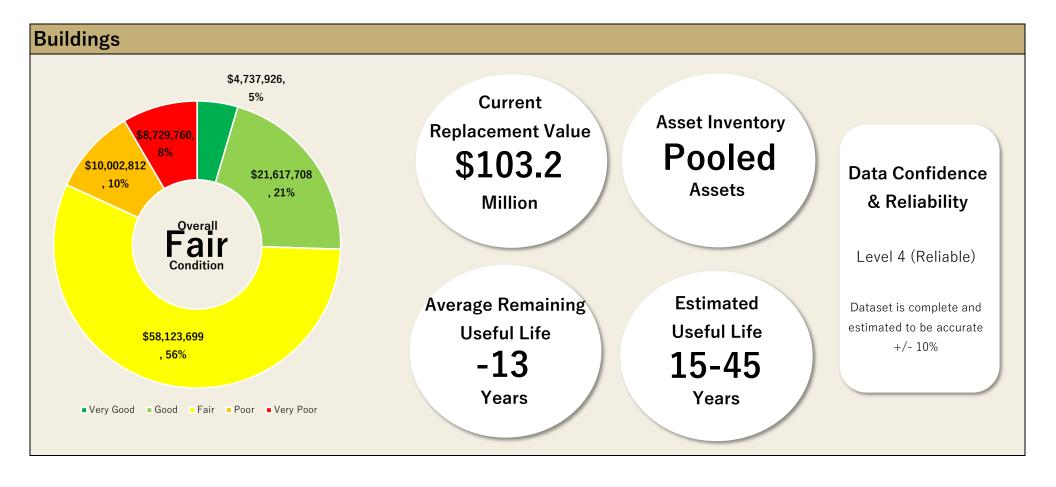




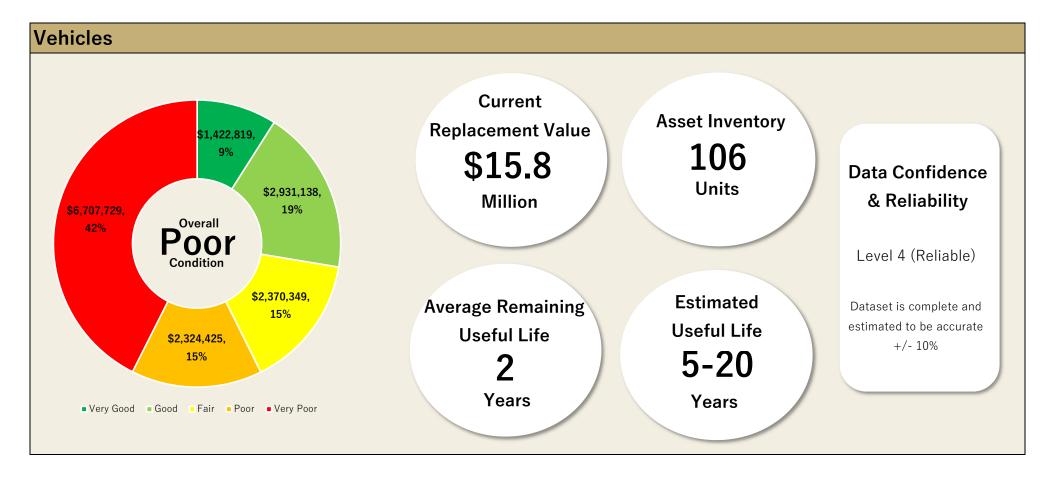




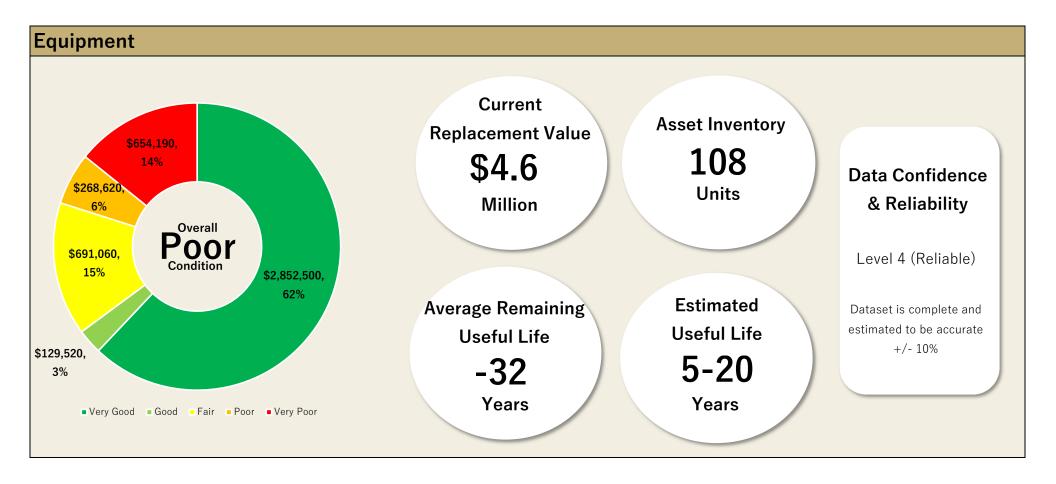




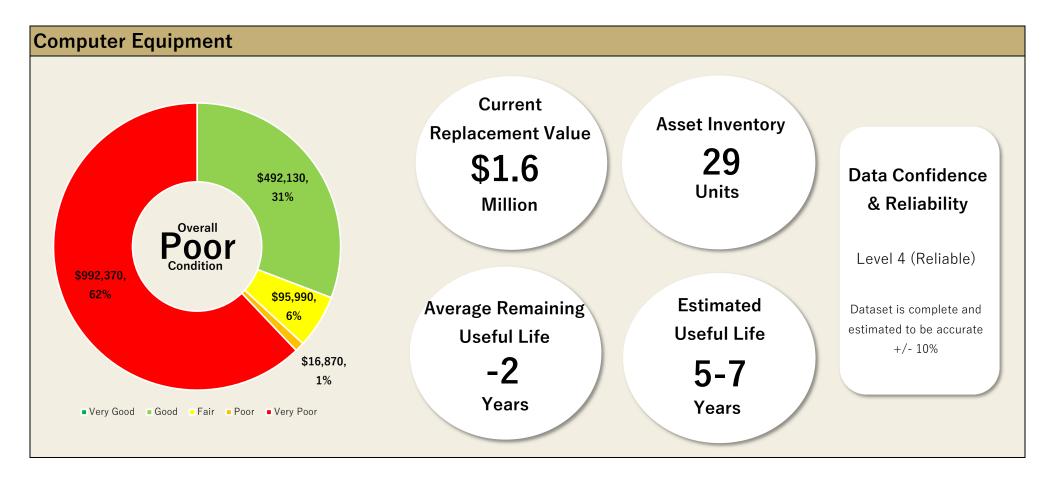




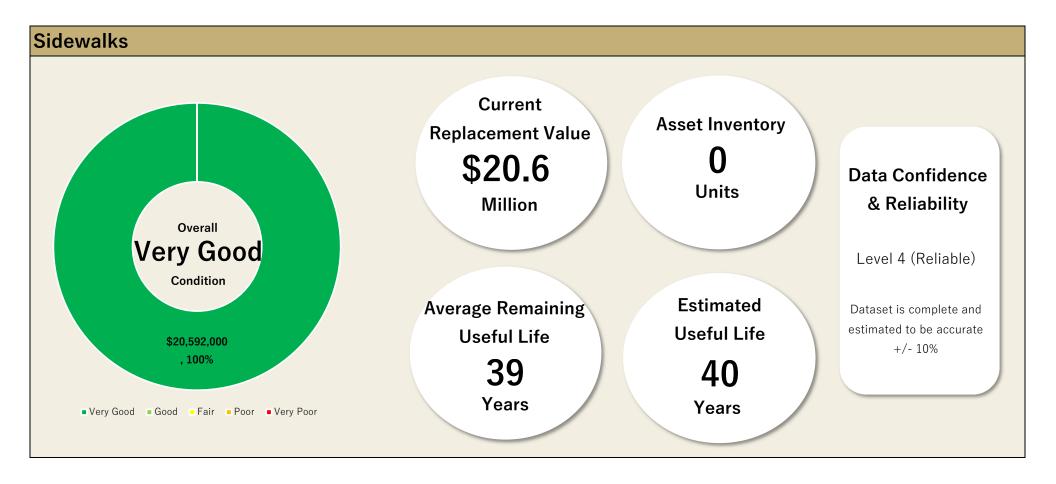




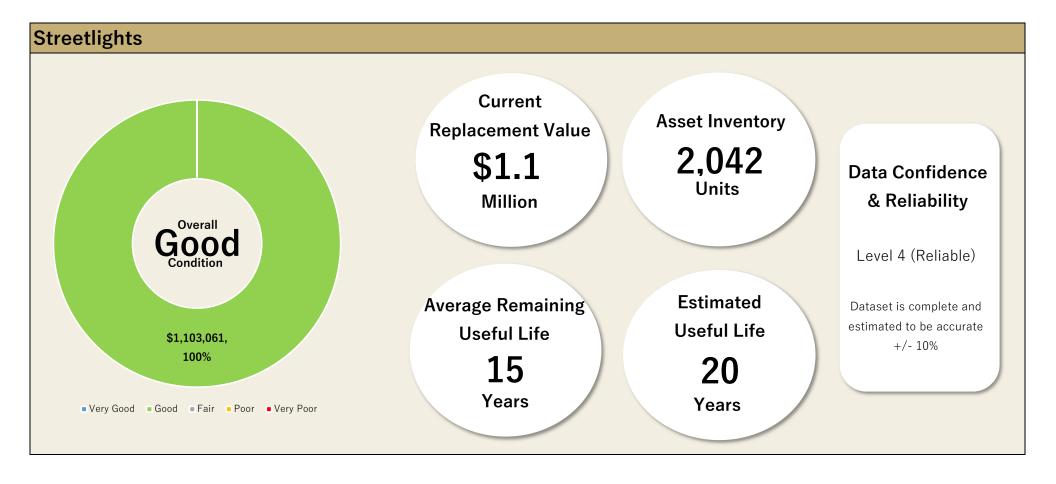




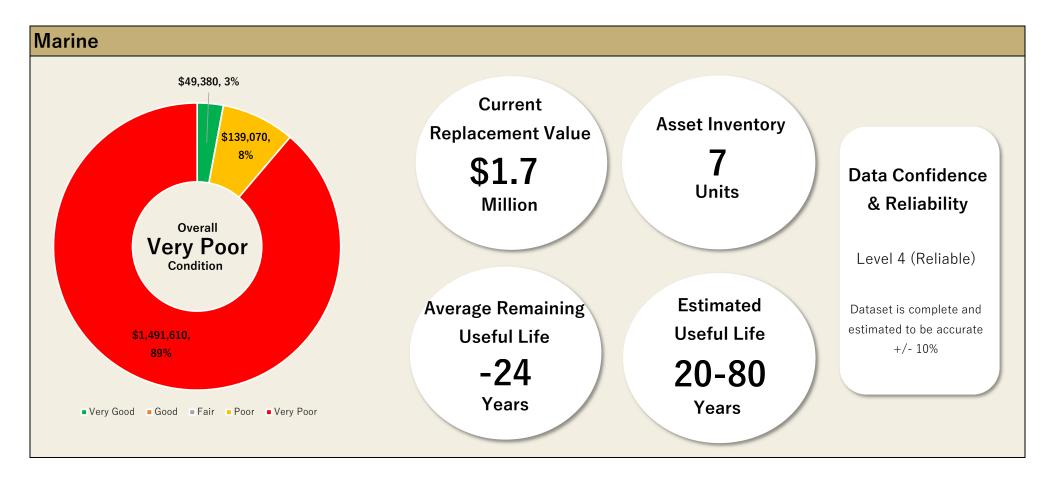




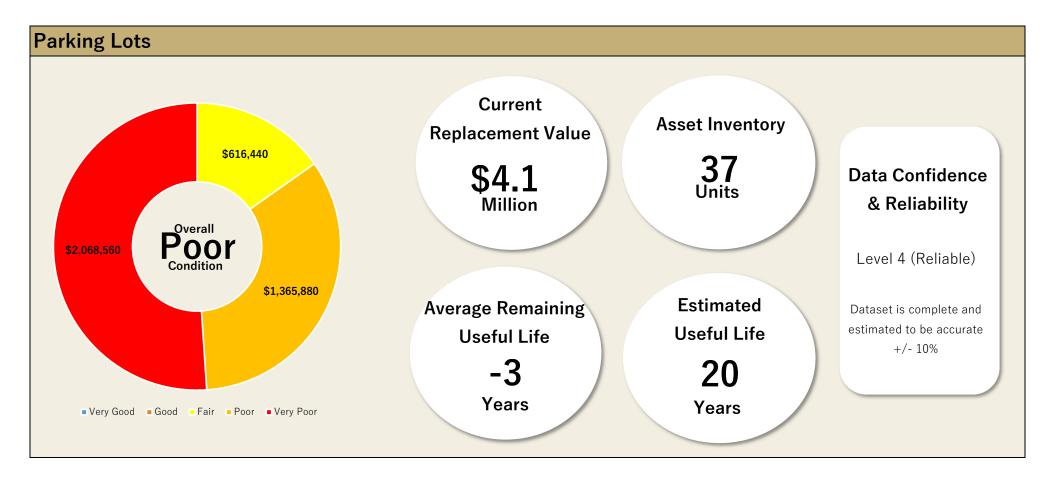




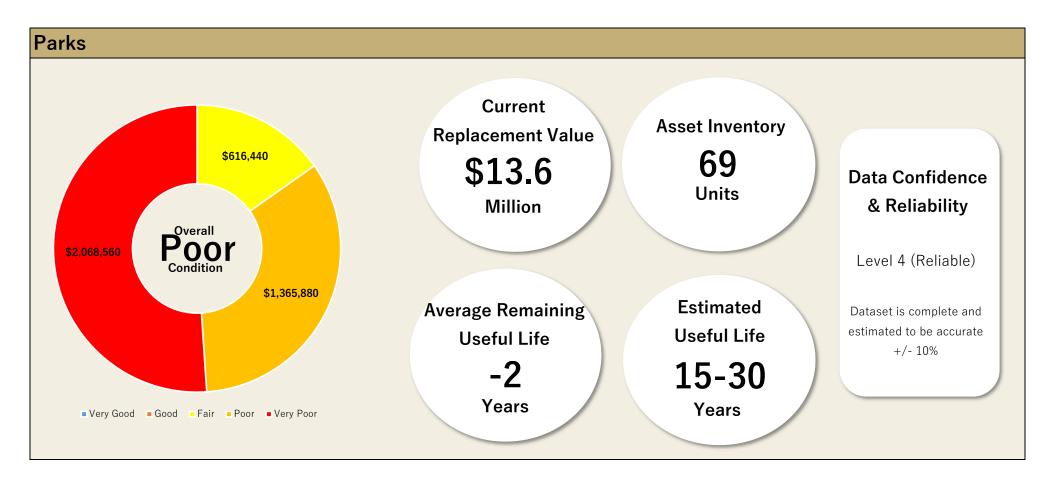














# APPENDIX B DETAILED FINANCING STRATEGY TABLES



Table B.1
Township of Scugog
Asset Management Plan Financing Strategy
Benchmark Lifecycle Costs: 10-Year Benchmark Gap with No Additional Funding

| Legend | gend 1. Lifecycle Costs     |       |                                   |                |                         |                  |   |                          |                   |   |  | 2. Forecast                           | t of Revenues   |   |              |                                    | 3. Funding Gap Calculation |                       |   |
|--------|-----------------------------|-------|-----------------------------------|----------------|-------------------------|------------------|---|--------------------------|-------------------|---|--|---------------------------------------|---|---|--------------|------------------------------------|----------------------------|-----------------------|---|
| Year   | Non-Infrastruc<br>Solutions | cture | Total Operations &<br>Maintenance | Roads          | Bridges and<br>Culverts | All Other Assets | Expansion Activities<br>(Annual Provision<br>for Replacement) | Total Lifecycle<br>Costs | O&M from Taxation | Capital from<br>Taxation (Including<br>Transfers) | Yearly Increase in<br>Tax Funding (\$) | Yearly Increase in<br>Tax Funding (%) | Canada Community<br>Building Fund<br>CCBF (formerly Gas<br>Tax) | Other Grants<br>(Solar Funds and<br>OCIF) | OLG          | Existing Reserves<br>(for Capital) | Total Funding              | Annual Funding<br>Gap | Cumulative<br>Infrastructure<br>Deficit |
| 2025   | \$                          | -     | \$ 8,571,000                      | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ -  | \$ 41,212,334            | \$ 8,571,000      | \$ 5,128,800                                      |  |                                       | \$ 706,780  | \$ 869,000                                | \$ 1,055,000 | \$ 6,284,665                       | \$ 22,615,245              | \$ 18,597,089         | \$ 18,597,089                           |
| 2026   | \$ 50                       | 0,000 | \$ 8,598,758                      | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 84,059   | \$ 41,374,151            | \$ 8,598,758      | \$ 5,128,800                                      |  | 0.0%                                  | \$ 706,780  | \$ 869,000                                | \$ 980,000   | \$ -                               | \$ 16,283,338              | \$ 25,090,813         | \$ 43,687,901                           |
| 2027   | \$ 50                       | 0,000 | \$ 8,626,516                      | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 168,118  | \$ 41,485,968            | \$ 8,626,516      | \$ 5,128,800                                      | S -                                    | 0.0%                                  | \$ 735,052  | \$ 869,000                                | \$ 980,000   | \$ -                               | \$ 16,339,368              | \$ 25,146,600         | \$ 68,834,501                           |
| 2028   | \$ 50                       | 0,000 | \$ 8,654,274                      | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 252,177  | \$ 41,597,785            | \$ 8,654,274      | \$ 5,128,800                                      | \$ -                                   | 0.0%                                  | \$ 735,052  | \$ 869,000                                | \$ 980,000   | \$ -                               | \$ 16,367,126              | \$ 25,230,659         | \$ 94,065,160                           |
| 2029   | \$ 50                       | 0,000 | \$ 8,682,032                      | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 336,237  | \$ 41,709,602            | \$ 8,682,032      | \$ 5,128,800                                      | \$ -                                   | 0.0%                                  | \$ 735,052  | \$ 869,000                                | \$ 980,000   | \$ -                               | \$ 16,394,884              | \$ 25,314,718         | \$ 119,379,878                          |
| 2030   | \$ 50                       | 0,000 | \$ 8,709,790                      | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 420,296  | \$ 41,821,419            | \$ 8,709,790      | \$ 5,128,800                                      | \$ -                                   | 0.0%                                  | \$ 735,052  | \$ 50,000                                 | \$ 980,000   | \$ -                               | \$ 15,603,642              | \$ 26,217,777         | \$ 145,597,655                          |
| 2031   | \$ 50                       | 0,000 | \$ 8,737,548                      | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 504,355  | \$ 41,933,236            | \$ 8,737,548      | \$ 5,128,800                                      | \$ -                                   | 0.0%                                  | \$ 735,052  | \$ 50,000                                 | \$ 980,000   | \$ -                               | \$ 15,631,400              | \$ 26,301,836         | \$ 171,899,492                          |
| 2032   | \$ 50                       | 0,000 | \$ 8,765,306                      | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 588,414  | \$ 42,045,053            | \$ 8,765,306      | \$ 5,128,800                                      | \$ -                                   | 0.0%                                  | \$ 735,052  | \$ 50,000                                 | \$ 980,000   | \$ -                               | \$ 15,659,158              | \$ 26,385,895         | \$ 198,285,387                          |
| 2033   | \$ 50                       | 0,000 | \$ 8,793,064                      | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 672,473  | \$ 42,156,871            | \$ 8,793,064      | \$ 5,128,800                                      | \$ -                                   | 0.0%                                  | \$ 735,052  | \$ 50,000                                 | \$ 980,000   | \$ -                               | \$ 15,686,916              | \$ 26,469,955         | \$ 224,755,342                          |
| 2034   | \$ 50                       | 0,000 | \$ 8,820,822                      | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 756,532  | \$ 42,268,688            | \$ 8,820,822      | \$ 5,128,800                                      | \$ -                                   | 0.0%                                  | \$ 735,052  | \$ 50,000                                 | \$ 980,000   | \$ -                               | \$ 15,714,674              | \$ 26,554,014         | \$ 251,309,355                          |
| Total  | \$ 450                      | 0,000 | \$ 86,959,110                     | \$ 140,840,500 | \$ 53,302,835           | \$ 132,270,000   | \$ 3,782,661  | \$ 417,605,106           | \$ 86,959,110     | \$ 51,288,000                                     |  |                                       | \$ 7,293,976  | \$ 4,595,000                              | \$ 9,875,000 | \$ 6,284,665                       | \$ 166,295,751             |                       |   |

 Summary Tax Increase

 Annual Increase
 \$ 

 2025 Total Tax Levy
 \$ 19,300,800

 Inc. as % of Tax Levy
 0.00%



Table B.2
Township of Scugog
Asset Management Plan Financing Strategy
Benchmark Lifecycle Costs: Close Infrastructure Gap

| Legend |                                 |                                |                | 1. Lifecycle Costs      |                  |   |                          |                   |   |  | 2. Forecast        | of Revenues  |   |              |                                    | 3. Funding Gap Calculation |                       |   |  |
|--------|---------------------------------|--------------------------------|----------------|-------------------------|------------------|---|--------------------------|-------------------|---|--|--------------------|--|---|--------------|------------------------------------|----------------------------|-----------------------|---|--|
| Year   | Non-Infrastructure<br>Solutions | Total Operations & Maintenance | Roads          | Bridges and<br>Culverts | All Other Assets | Expansion Activities<br>(Annual Provision<br>for Replacement) | Total Lifecycle<br>Costs | O&M from Taxation | Capital from<br>Taxation (Including<br>Transfers) | Yearly Increase in<br>Tax Funding (\$) | Yearly Increase in | Canada Community Building Fund CCBF (formerly Gas Tax) | Other Grants<br>(Solar Funds and<br>OCIF) | OLG          | Existing Reserves<br>(for Capital) | Total Funding              | Annual Funding<br>Gap | Cumulative<br>Infrastructure<br>Deficit |  |
| 2025   | \$ -                            | \$ 8,571,000                   | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ -  | \$ 41,212,334            | \$ 8,571,000      | \$ 5,128,800                                      |  |                    | \$ 706,780   | \$ 869,000                                | \$ 1,055,000 | \$ 6,284,665                       | \$ 22,615,245              | \$ 18,597,089         | \$ 18,597,089                           |  |
| 2026   | \$ 50,000                       | \$ 8,598,758                   | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 84,059   | \$ 41,374,151            | \$ 8,598,758      | \$ 9,705,841                                      | \$ 4,577,041                           | 89.2%              | \$ 706,780   | \$ 869,000                                | \$ 980,000   | \$ -                               | \$ 20,860,379              | \$ 20,513,772         | \$ 39,110,860                           |  |
| 2027   | \$ 50,000                       | \$ 8,626,516                   | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 168,118  | \$ 41,485,968            | \$ 8,626,516      | \$ 15,213,940                                     | \$ 5,508,099                           | 56.8%              | \$ 735,052   | \$ 869,000                                | \$ 980,000   | \$ -                               | \$ 26,424,508              | \$ 15,061,460         | \$ 54,172,320                           |  |
| 2028   | \$ 50,000                       | \$ 8,654,274                   | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 252,177  | \$ 41,597,785            | \$ 8,654,274      | \$ 20,983,583                                     | \$ 5,769,643                           | 37.9%              | \$ 735,052   | \$ 869,000                                | \$ 980,000   | \$ -                               | \$ 32,221,909              | \$ 9,375,876          | \$ 63,548,197                           |  |
| 2029   | \$ 50,000                       | \$ 8,682,032                   | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 336,237  | \$ 41,709,602            | \$ 8,682,032      | \$ 26,859,072                                     | \$ 5,875,490                           | 28.0%              | \$ 735,052   | \$ 869,000                                | \$ 980,000   | \$ -                               | \$ 38,125,156              | \$ 3,584,446          | \$ 67,132,643                           |  |
| 2030   | \$ 50,000                       | \$ 8,709,790                   | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 420,296  | \$ 41,821,419            | \$ 8,709,790      | \$ 32,804,546                                     | \$ 5,945,474                           | 22.1%              | \$ 735,052   | \$ 50,000                                 | \$ 980,000   | \$ -                               | \$ 43,279,388              | \$ (1,457,969)        | \$ 65,674,674                           |  |
| 2031   | \$ 50,000                       | \$ 8,737,548                   | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 504,355  | \$ 41,933,236            | \$ 8,737,548      | \$ 38,812,094                                     | \$ 6,007,548                           | 18.3%              | \$ 735,052   | \$ 50,000                                 | \$ 980,000   | \$ -                               | \$ 49,314,694              | \$ (7,381,457)        | \$ 58,293,216                           |  |
| 2032   | \$ 50,000                       | \$ 8,765,306                   | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 588,414  | \$ 42,045,053            | \$ 8,765,306      | \$ 44,880,327                                     | \$ 6,068,234                           | 15.6%              | \$ 735,052   | \$ 50,000                                 | \$ 980,000   | \$ -                               | \$ 55,410,685              | \$ (13,365,632)       | \$ 44,927,584                           |  |
| 2033   | \$ 50,000                       | \$ 8,793,064                   | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 672,473  | \$ 42,156,871            | \$ 8,793,064      | \$ 51,009,386                                     | \$ 6,129,059                           | 13.7%              | \$ 735,052   | \$ 50,000                                 | \$ 980,000   | \$ -                               | \$ 61,567,502              | \$ (19,410,631)       | \$ 25,516,953                           |  |
| 2034   | \$ 50,000                       | \$ 8,820,822                   | \$ 14,084,050  | \$ 5,330,284            | \$ 13,227,000    | \$ 756,532  | \$ 42,268,688            | \$ 8,820,822      | \$ 57,199,768                                     | \$ 6,190,382                           | 12.1%              | \$ 735,052   | \$ 50,000                                 | \$ 980,000   | \$ -                               | \$ 67,785,642              | \$ (25,516,955)       | \$ (2)                                  |  |
| Total  | \$ 450,000                      | \$ 86,959,110                  | \$ 140,840,500 | \$ 53,302,835           | \$ 132,270,000   | \$ 3,782,661  | \$ 417,605,106           | \$ 86,959,110     | \$ 302,597,357                                    |  |                    | \$ 7,293,976   | \$ 4,595,000                              | \$ 9,875,000 | \$ 6,284,665                       | \$ 417,605,108             |                       |   |  |

| Summary Tax Increa    | se |            |
|-----------------------|----|------------|
| Annual Increase       | \$ | 4,577,041  |
| 2025 Total Tax Levy   | \$ | 19,300,800 |
| Inc. as % of Tax Levy |    | 23.71%     |



### Table B.3 Township of Scugog Asset Management Plan Financing Strategy Proposed Level of Service Lifecycle Costs: 10-Year Benchmark Gap with No Additional Funding

| Legend |                                |                                |               | 1. Lifecycle Costs      |                  |   |                          |                   |   |  | 2. Forecast        | of Revenues   |                     |              |                                    | 3. Funding Gap Calculation |                       |   |
|--------|--------------------------------|--------------------------------|---------------|-------------------------|------------------|---|--------------------------|-------------------|---|--|--------------------|---|---------------------|--------------|------------------------------------|----------------------------|-----------------------|---|
| Year   | Non-Infrastructur<br>Solutions | Total Operations & Maintenance | Roads         | Bridges and<br>Culverts | All Other Assets | Expansion Activities<br>(Annual Provision<br>for Replacement) | Total Lifecycle<br>Costs | O&M from Taxation | Capital from<br>Taxation (Including<br>Transfers) | Yearly Increase in<br>Tax Funding (\$) | Yearly Increase in | Canada Community<br>Building Fund<br>CCBF (formerly Gas<br>Tax) | Other Grants (Solar | OLG          | Existing Reserves<br>(for Capital) | Total Funding              | Annual Funding<br>Gap | Cumulative<br>Infrastructure<br>Deficit |
| 2025   | \$ -                           | \$ 8,571,000                   | \$ 3,684,050  | \$ 1,008,642            | \$ 7,806,500     | \$ -  | \$ 21,070,192            | \$ 8,571,000      | \$ 5,128,800                                      |  |                    | \$ 706,780  | \$ 869,000          | \$ 1,055,000 | \$ 6,284,665                       | \$ 22,615,245              | \$ (1,545,053)        | \$ (1,545,053)                          |
| 2026   | \$ 50,000                      | \$ 8,598,758                   | \$ 3,684,050  | \$ 1,008,642            | \$ 7,806,500     | \$ 84,059   | \$ 21,232,009            | \$ 8,598,758      | \$ 5,128,800                                      |  | 0.0%               | \$ 706,780  | \$ 869,000          | \$ 980,000   | \$ -                               | \$ 16,283,338              | \$ 4,948,671          | \$ 3,403,618                            |
| 2027   | \$ 50,000                      | \$ 8,626,516                   | \$ 3,684,050  | \$ 1,008,642            | \$ 7,806,500     | \$ 168,118  | \$ 21,343,826            | \$ 8,626,516      | \$ 5,128,800                                      | \$ -                                   | 0.0%               | \$ 735,052  | \$ 869,000          | \$ 980,000   | \$ -                               | \$ 16,339,368              | \$ 5,004,458          | \$ 8,408,076                            |
| 2028   | \$ 50,000                      | \$ 8,654,274                   | \$ 3,684,050  | \$ 1,008,642            | \$ 7,806,500     | \$ 252,177  | \$ 21,455,643            | \$ 8,654,274      | \$ 5,128,800                                      | \$ -                                   | 0.0%               | \$ 735,052  | \$ 869,000          | \$ 980,000   | \$ -                               | \$ 16,367,126              | \$ 5,088,517          | \$ 13,496,593                           |
| 2029   | \$ 50,000                      | \$ 8,682,032                   | \$ 3,684,050  | \$ 1,008,642            | \$ 7,806,500     | \$ 336,237  | \$ 21,567,460            | \$ 8,682,032      | \$ 5,128,800                                      | \$ -                                   | 0.0%               | \$ 735,052  | \$ 869,000          | \$ 980,000   | \$ -                               | \$ 16,394,884              | \$ 5,172,576          | \$ 18,669,170                           |
| 2030   | \$ 50,000                      | \$ 8,709,790                   | \$ 3,684,050  | \$ 1,008,642            | \$ 7,806,500     | \$ 420,296  | \$ 21,679,278            | \$ 8,709,790      | \$ 5,128,800                                      | \$ -                                   | 0.0%               | \$ 735,052  | \$ 50,000           | \$ 980,000   | \$ -                               | \$ 15,603,642              | \$ 6,075,636          | \$ 24,744,805                           |
| 2031   | \$ 50,000                      | \$ 8,737,548                   | \$ 3,684,050  | \$ 1,008,642            | \$ 7,806,500     | \$ 504,355  | \$ 21,791,095            | \$ 8,737,548      | \$ 5,128,800                                      | \$ -                                   | 0.0%               | \$ 735,052  | \$ 50,000           | \$ 980,000   | \$ -                               | \$ 15,631,400              | \$ 6,159,695          | \$ 30,904,500                           |
| 2032   | \$ 50,000                      | \$ 8,765,306                   | \$ 3,684,050  | \$ 1,008,642            | \$ 7,806,500     | \$ 588,414  | \$ 21,902,912            | \$ 8,765,306      | \$ 5,128,800                                      | \$ -                                   | 0.0%               | \$ 735,052  | \$ 50,000           | \$ 980,000   | \$ -                               | \$ 15,659,158              | \$ 6,243,754          | \$ 37,148,254                           |
| 2033   | \$ 50,000                      | \$ 8,793,064                   | \$ 3,684,050  | \$ 1,008,642            | \$ 7,806,500     | \$ 672,473  | \$ 22,014,729            | \$ 8,793,064      | \$ 5,128,800                                      | \$ -                                   | 0.0%               | \$ 735,052  | \$ 50,000           | \$ 980,000   | \$ -                               | \$ 15,686,916              | \$ 6,327,813          | \$ 43,476,067                           |
| 2034   | \$ 50,000                      | \$ 8,820,822                   | \$ 3,684,050  | \$ 1,008,642            | \$ 7,806,500     | \$ 756,532  | \$ 22,126,546            | \$ 8,820,822      | \$ 5,128,800                                      | \$ -                                   | 0.0%               | \$ 735,052  | \$ 50,000           | \$ 980,000   | \$ -                               | \$ 15,714,674              | \$ 6,411,872          | \$ 49,887,939                           |
| Total  | \$ 450,000                     | \$ 86,959,110                  | \$ 36,840,500 | \$ 10,086,419           | \$ 78,065,000    | \$ 3,782,661  | \$ 216,183,690           | \$ 86,959,110     | \$ 51,288,000                                     |  | •                  | \$ 7,293,976  | \$ 4,595,000        | \$ 9,875,000 | \$ 6,284,665                       | \$ 166,295,751             |                       |   |

 Summary Tax Increase

 Annual Increase
 \$ 

 2025 Total Tax Levy
 19,300,800

 Inc. as % of Tax Levy
 0.00%



### Table B.4 Township of Scugog Asset Management Plan Financing Strategy Proposed Level of Service Lifecycle Costs: Maintain 4% Dedicated Levy

| Legend | end 1. Lifecycle Costs          |                                |        |            |                         |                  |   |                          |                   |   |  | 2. Forecast        | of Revenues  |  |              |                                    | 3. Funding Gap Calculation |                       |   |
|--------|---------------------------------|--------------------------------|--------|------------|-------------------------|------------------|---|--------------------------|-------------------|---|--|--------------------|--|--|--------------|------------------------------------|----------------------------|-----------------------|---|
| Year   | Non-Infrastructure<br>Solutions | Total Operations & Maintenance | Road   | s          | Bridges and<br>Culverts | All Other Assets | Expansion Activities<br>(Annual Provision<br>for Replacement) | Total Lifecycle<br>Costs | O&M from Taxation | Capital from<br>Taxation (Including<br>Transfers) | Yearly Increase in<br>Tax Funding (\$) | Yearly Increase in | Canada Communi<br>Building Fund<br>CCBF (formerly Garan) | Other Grants (Solar<br>Funds and OCIF) | OLG          | Existing Reserves<br>(for Capital) | Total Funding              | Annual Funding<br>Gap | Cumulative<br>Infrastructure<br>Deficit |
| 2025   | \$ -                            | \$ 8,571,000                   | \$ 3,  | 584,050 \$ | 1,008,642               | \$ 7,806,500     | \$ -  | \$ 21,070,192            | \$ 8,571,000      | \$ 5,128,800                                      |  |                    | \$ 706,78  | \$ 869,000                             | \$ 1,055,000 | \$ 6,284,665                       | \$ 22,615,245              | \$ (1,545,053)        | \$ (1,545,053)                          |
| 2026   | \$ 50,000                       | \$ 8,598,758                   | \$ 3,  | 84,050     | 1,008,642               | \$ 7,806,500     | \$ 84,059   | \$ 21,232,009            | \$ 8,598,758      | \$ 5,913,832                                      | \$ 785,032                             | 15.3%              | \$ 706,78  | \$ 869,000                             | \$ 980,000   | \$ -                               | \$ 17,068,370              | \$ 4,163,639          | \$ 2,618,586                            |
| 2027   | \$ 50,000                       | \$ 8,626,516                   | \$ 3,  | 84,050     | 1,008,642               | \$ 7,806,500     | \$ 168,118  | \$ 21,343,826            | \$ 8,626,516      | \$ 6,706,874                                      | \$ 793,042                             | 13.4%              | \$ 735,05  | 2 \$ 869,000                           | \$ 980,000   | \$ -                               | \$ 17,917,442              | \$ 3,426,384          | \$ 6,044,970                            |
| 2028   | \$ 50,000                       | \$ 8,654,274                   | \$ 3,  | 584,050 \$ | 1,008,642               | \$ 7,806,500     | \$ 252,177  | \$ 21,455,643            | \$ 8,654,274      | \$ 7,507,853                                      | \$ 800,979                             | 11.9%              | \$ 735,05  | 2 \$ 869,000                           | \$ 980,000   | \$ -                               | \$ 18,746,179              | \$ 2,709,464          | \$ 8,754,434                            |
| 2029   | \$ 50,000                       | \$ 8,682,032                   | \$ 3,  | 584,050 \$ | 1,008,642               | \$ 7,806,500     | \$ 336,237  | \$ 21,567,460            | \$ 8,682,032      | \$ 8,316,843                                      | \$ 808,989                             | 10.8%              | \$ 735,05  | 2 \$ 869,000                           | \$ 980,000   | \$ -                               | \$ 19,582,927              | \$ 1,984,534          | \$ 10,738,968                           |
| 2030   | \$ 50,000                       | \$ 8,709,790                   | \$ 3,  | 84,050     | 1,008,642               | \$ 7,806,500     | \$ 420,296  | \$ 21,679,278            | \$ 8,709,790      | \$ 9,133,922                                      | \$ 817,079                             | 9.8%               | \$ 735,05  | 2 \$ 50,000                            | \$ 980,000   | \$ -                               | \$ 19,608,764              | \$ 2,070,514          | \$ 12,809,482                           |
| 2031   | \$ 50,000                       | \$ 8,737,548                   | \$ 3,  | 84,050     | 1,008,642               | \$ 7,806,500     | \$ 504,355  | \$ 21,791,095            | \$ 8,737,548      | \$ 9,959,171                                      | \$ 825,250                             | 9.0%               | \$ 735,05  | 2 \$ 50,000                            | \$ 980,000   | \$ -                               | \$ 20,461,771              | \$ 1,329,323          | \$ 14,138,805                           |
| 2032   | \$ 50,000                       | \$ 8,765,306                   | \$ 3,  | 584,050 \$ | 1,008,642               | \$ 7,806,500     | \$ 588,414  | \$ 21,902,912            | \$ 8,765,306      | \$ 10,792,674                                     | \$ 833,502                             | 8.4%               | \$ 735,05  | 2 \$ 50,000                            | \$ 980,000   | \$ -                               | \$ 21,323,032              | \$ 579,880            | \$ 14,718,685                           |
| 2033   | \$ 50,000                       | \$ 8,793,064                   | \$ 3,  | 584,050 \$ | 1,008,642               | \$ 7,806,500     | \$ 672,473  | \$ 22,014,729            | \$ 8,793,064      | \$ 11,634,511                                     | \$ 841,837                             | 7.8%               | \$ 735,05  | 2 \$ 50,000                            | \$ 980,000   | \$ -                               | \$ 22,192,627              | \$ (177,898)          | \$ 14,540,787                           |
| 2034   | \$ 50,000                       | \$ 8,820,822                   | \$ 3,  | 84,050     | 1,008,642               | \$ 7,806,500     | \$ 756,532  | \$ 22,126,546            | \$ 8,820,822      | \$ 12,484,767                                     | \$ 850,256                             | 7.3%               | \$ 735,05  | 2 \$ 50,000                            | \$ 980,000   | \$ -                               | \$ 23,070,641              | \$ (944,095)          | \$ 13,596,692                           |
| Total  | \$ 450,000                      | \$ 86,959,110                  | \$ 36, | 340,500 \$ | 10,086,419              | \$ 78,065,000    | \$ 3,782,661  | \$ 216,183,690           | \$ 86,959,110     | \$ 87,579,247                                     |  |                    | \$ 7,293,97  | 5 \$ 4,595,000                         | \$ 9,875,000 | \$ 6,284,665                       | \$ 202,586,998             |                       |   |

| Summary Tax Increa    | se |            |
|-----------------------|----|------------|
| Annual Increase       | \$ | 785,032    |
| 2025 Total Tax Levy   | \$ | 19,300,800 |
| Inc. as % of Tax Levy |    | 4.07%      |

