

For Information Only

Arterial And Collector Roads - Financial Plan

Presented To:	Operations Committee
Presented:	Monday, Jul 06, 2015
Report Date	Thursday, Jun 18, 2015
Type:	Managers' Reports

Recommendation

For Information Only

Background

There have been recent requests from Councillors for information pertaining to the Roads Infrastructure budget deficit. This interest has been particularly directed at the condition and maintenance of arterial and collector roads.

In order to better understand the severity of the roads infrastructure deficit, a financial plan was developed with assistance from KPMG in 2012 (Appendix A and B). The financial plan (Financial Planning for Municipal Roads, Structures and Related Infrastructure) was intended to address the roads infrastructure deficit by defining the requirements through an analysis of road conditions. The plan outlines the annual operating requirements as well as the 10 year capital requirements for the assets under the administration of the Roads Division.

Signed By

Report Prepared By

Kelsi Bernier
Co-ordinator of Finance (Roads)
Digitally Signed Jun 19, 15

Division Review

David Shelsted
Director of Roads & Transportation
Services
Digitally Signed Jun 18, 15

Recommended by the Department

Tony Cecutti
General Manager of Infrastructure
Services
Digitally Signed Jun 22, 15

Recommended by the C.A.O.

Bob Johnston
Interim Chief Administrative Officer
Digitally Signed Jun 23, 15

Arterial and Collector Roads

The City of Greater Sudbury maintains 741 and 616 lane kilometers of arterial and collector roads respectively. This accounts for 38% of CGS's road network. The characteristics of arterial roads include moderate to high traffic volumes with medium to high speed limits and typically contain two to six lanes. Radar Road, Municipal Road 55, and Paris Street are examples of arterial roads. Collector roads have low to moderate traffic volumes with medium speed limits and contain two to four lanes. Southview Drive, Auger Avenue and Errington Avenue are examples of collector roads.

The entire road network is reviewed every two years using sophisticated equipment to measure the condition of the pavement. A Pavement Condition Index (PCI) is calculated which rates a road from 0-100. Based on the PCI, roads can be assigned one of five categories ranging from very poor (0-25) to excellent (85-100). The average PCI for arterial and collector roads in the financial plan is approximately 65, which is in the good category. While PCI provides an indication as to the current condition of the municipal road network, it is also one component for prioritizing capital spending.

The 2012 KPMG report recommended capital expenditures of \$36 million for arterial and collector roads. In contrast, budgeted expenditures for the same year were approximately \$19.6 million or 54% of the recommended expenditure for these road categories.

Overall, the recommendations from the financial plan will drastically reduce the replacement cycle of the roads infrastructure. If followed, the replacement cycle for City roads will be reduced from 83 years to 40 years. This will be a closer reflection of the useful life of a road.

Appendices

A. Appendix

A; Council Report 20120710 - Financial Plan for Roads and Transportation Services

B. Appendix

B; KPMG Report on Financial Planning for Municipal Roads, Structures and Related Infrastructure

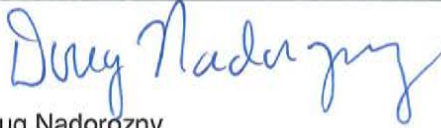
Request for Recommendation
Finance and Administration Committee



Type of Decision							
Meeting Date	July 10, 2012				Report Date	July 10, 2012	
Decision Requested	x	Yes		No	Priority		High
	Direction Only				Type of Meeting	x	Open
							Closed

Report Title
Financial Plan for Roads and Transportation Services

Budget Impact/Policy Implication	Recommendation
 This report has been reviewed by the Finance Division and the funding source has been identified.	Whereas the City of Greater Sudbury maintains approximately 3,600 lane kilometres of roads infrastructure that has a replacement value of approximately \$3.0B, and requires an annual investment in operating and capital of approximately \$117M to be sustainable; Whereas the City of Greater Sudbury - Strategic Plan includes roads infrastructure as a key priority, and specifically an action item to complete the Roads 10-Year Financial Plan; Therefore, be it resolved that Council accept the report dated July 10, 2012 from the Chief Financial Officer and General Manager of Infrastructure Services outlining the financial requirements over the next 10 years to ensure municipal roads and related infrastructure are sustainable.
Background Attached	Recommendation Continued

Recommended by the Department	Recommended by the C.A.O.
 Lorella Hayes Chief Financial Officer/Treasurer  Greg Clausen General Manager of Infrastructure Services	 Doug Nadorozny Chief Administrative Officer

Report Prepared By	Division Review
 Shawn Turner Manager of Financial and Support Services	 David Shelsted, MBA, P.Eng Director of Roads and Transportation Services

Background

During the presentation of the Summer Maintenance – Zero Base Budget to the Finance Committee on November 21, 2011, Council was advised that the Infrastructure Services Department and Finance Department were developing a Ten Year Fiscal Sustainability Plan for Roads. With the assistance of KPMG, the financial plan has been developed and outlines the annual operating requirements as well as the 10 year capital requirements for the assets under the administration of the Roads Division.

The 3,600 lane kilometre municipal road network is the City's largest asset class with an estimated replacement value of approximately \$3.0B and includes (in millions of dollars):

Land	\$11
Drains	\$23
Streetlights	\$18
Bridges & Culverts	\$253
Urban & Rural Roads	\$2,527
Signals & Signs	\$23

In recognition of the significance of future investment requirements, the plan considers two scenarios:

Scenario 1: Capital funding is increased in order to preserve the current infrastructure until a sustainable funding level is reached. The only growth in the asset base considered in this scenario is Maley Drive. The summer maintenance zero-base budget is phased in over five years and the winter roads budget remains constant, excluding inflationary adjustments.

Scenario 2: In addition to the assumptions in the first scenario, Scenario 2 includes additional growth projects including but not limited to MR 35 (Azilda to Chelmsford), Kingsway Boulevard realignment and various storm water management projects.

The resulting funding requirement for each scenario and subsequent funding gap can be seen in Table 1 below.

TABLE 1					
Operating and Capital Funding Required (in 2012 dollars) (in millions of dollars)					
	Funding Required	Current Funding	Funding Gap	Operating Funding Gap	Capital Funding Gap
Scenario 1	117	75	42	4	38
Scenario 2	122	75	47	4	43

The complete Roads Financial Plan is attached. Some of the highlights of the plan are listed below.

Highlights of the Roads Financial Plan

- \$700M immediate infrastructure deficit, a further \$480M required within 5 years and \$90M in the next 10 years when applying Ontario Good Roads Association guidance.

- Approximately \$75M recommended for sustainable capital expenditures at the present time, as compared to the 2012 Roads capital budget of approximately \$37M. Over time, this difference will increase due to the effects of inflation.

- Investment of \$117M annually under scenario 1. Roads will require an additional \$6.2M in capital funding each year for the next 10 years to close the identified capital funding gap and address the impacts of inflation. Without other sources of funding this would equate to a 3.3% annual increase to the tax levy.

- Investment of \$122M annually under scenario 2. Roads will require an additional \$6.7M in capital funding each year for the next 10 years to close the identified capital funding gap and address the impacts of inflation. Without other sources of funding this would equate to a 3.5% annual increase to the tax levy.

- Replacement cycle for City roads reduced from 83 to 40 years which is a closer reflection of the useful life of a road.

- Summer roads maintenance - zero-based budget phased in over 5 years.

- Winter Roads budget maintained at current levels, excluding inflationary increases.

- Financial sustainability reached by 2022 if plan implemented for 10 years commencing 2013.

-Financial plan contemplates a required investment for 2013 of approximately \$80M. This is a \$5M increase over 2012 and is comprised of a \$3M increase in the capital budget and a \$2M increase in the operating budget including the phase in of the summer maintenance zero-based budget. Without other sources of funding this would equate to a 3.5% increase to the tax levy.

The Financial Plan for Roads and Transportation Services does not address the allocations within the Roads Capital Budget. Staff will report on and review the allocations with Council in September 2012.

Summary

It is recommended that Council accept the Financial Plan for Roads and Transportation Services. The financial plan may differ from the annual Roads budget to the degree to which Council approves the annual budget. It is recommended that Council use the information and assumptions inherent in the financial plan, including future amendments to assist with budget decisions and strategies to achieve fiscal sustainability. Staff will continue to pursue funding from senior levels of government and seek to maximize efficiencies and reduce costs.



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CITY OF GREATER SUDBURY

Financial Planning for Municipal Roads, Structures and Related Infrastructure

Final Report

July 10, 2012



Financial Planning for Roads

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Financial Planning for Roads

Executive Summary

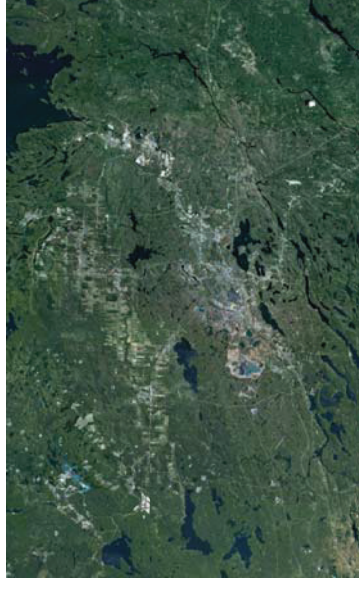
With a total area of over 3,600 square kilometres, the City of Greater Sudbury (the “City”) and its predecessor municipalities have invested heavily in the municipal road network and related infrastructure. Overall, the City maintains approximately 3,600 lane kilometres of roadways, the equivalent of a single lane highway connecting Greater Sudbury to the US-Mexican border at El Paso, Texas.

Total spending on the City’s road network during 2012 (operating and capital) is expected to amount to \$75 million, representing the largest single expense item for the City and accounting for 13% of the total municipal budget. The significance of the municipal road network is also demonstrated by the investment in the underlying infrastructure. With a historical cost of \$1.1 billion and estimated replacement cost of \$3.0 billion, the municipal road network represents the largest single asset class for the City.

With the implementation of accounting for tangible capital assets, municipalities, including the City, have a better understanding of the cost and investment requirements associated with their infrastructure, allowing for enhanced planning for the funding and rehabilitation of key infrastructure components. The City has already introduced sustainable capital asset management for its water and wastewater services, increasing the amount of capital funding in response to impending needs. This financial plan outlines a similar strategy for the City’s road network.

Prepared in conjunction with staff from the City’s Infrastructure and Financial Services Divisions, the financial plan for roads is intended to address a growing infrastructure and operational deficit, one that manifests itself through an increasing deterioration of the City’s road network. In 2012, the City will spend approximately \$35 million on capital expenditures for roads, compared to the estimated \$75 million that it is required to invest in order to maintain the road network at the recommended standard. The gap between actual and required spending has resulted in an immediate roads infrastructure deficit of approximately \$700 million, with a further \$570 million to be required on existing infrastructure over the next ten years. In addition, new infrastructure requirements arising from growth amount to a further \$241 million.

The financial plan recognizes that the magnitude of the roads infrastructure deficit cannot be addressed in a short timeframe. Rather, the financial plan considers a ten year phase-in period during which the City will increase funding for capital purposes by \$7 million per year each year to deal with the infrastructure shortfall, with an additional \$4 million invested in summer roads maintenance over five years. The increase in financial resources contemplated under the financial plan will allow the City to reduce its maintenance cycle from the current 83 years to approximately 40 years, which is a much closer reflection of the useful life of the road network. While the City intends to continue its efforts to secure support from senior levels of government for reinvestment in its roads network, the financial plan anticipates that, in the absence of senior government assistance, the City would be required to increase the municipal levy by 3.3% to 3.5% each year over the next ten years to fund its operating and capital requirements associated with roads.



Financial Planning for Roads

Background to the Study

During 2011, the City completed a ten year financial plan for water and wastewater services. While the impetus for the plan was Provincial licensing requirements, it represented the continuation of the City's efforts to appropriately address its infrastructure issues for water and wastewater services, which began with the implementation of sustainable capital asset management for water and wastewater services in 2001.

The completion of the financial plan for water and wastewater services was made possible through the adoption of tangible capital asset accounting by the City, which reflected a change in accounting policies for Canadian municipalities. For the first time in many years, municipalities have a perspective on the historical cost of their underlying infrastructure which, when combined with other elements such as useful life and replacement values, form the basis for effective asset management, recognizing that effective asset management involves not only the acquisition of assets, but also their maintenance and eventual replacement.

In recognition of the value of long-term financial planning, as well as concerns over the sufficiency of funding for both operating and capital requirements associated with its road network and related infrastructure (structures, signage, streetlights, storm sewers), the City has embarked on the preparation of a financial plan for the municipal road network and has retained KPMG to assist City staff with the development of the financial plan.

The financial plan outlined in this document is intended to assist Council and City staff to achieve a level of annual financing that will provide sustainability for the municipal road network. For the purposes of the financial plan, sustainability is defined as the condition whereby the level of financial resources allocated to roads is sufficient to provide for the recommended level of operational maintenance as well as the required capital reinvestment in the roads infrastructure.

It is important to recognize that the financial plan is simply that – a plan. It does not represent a binding multi-year budget and Council retains the authority and responsibility to establish budgets and tax rates on an annual basis, which may vary from those outlined in the financial plan.

In addition to this introductory section, the financial plan includes:

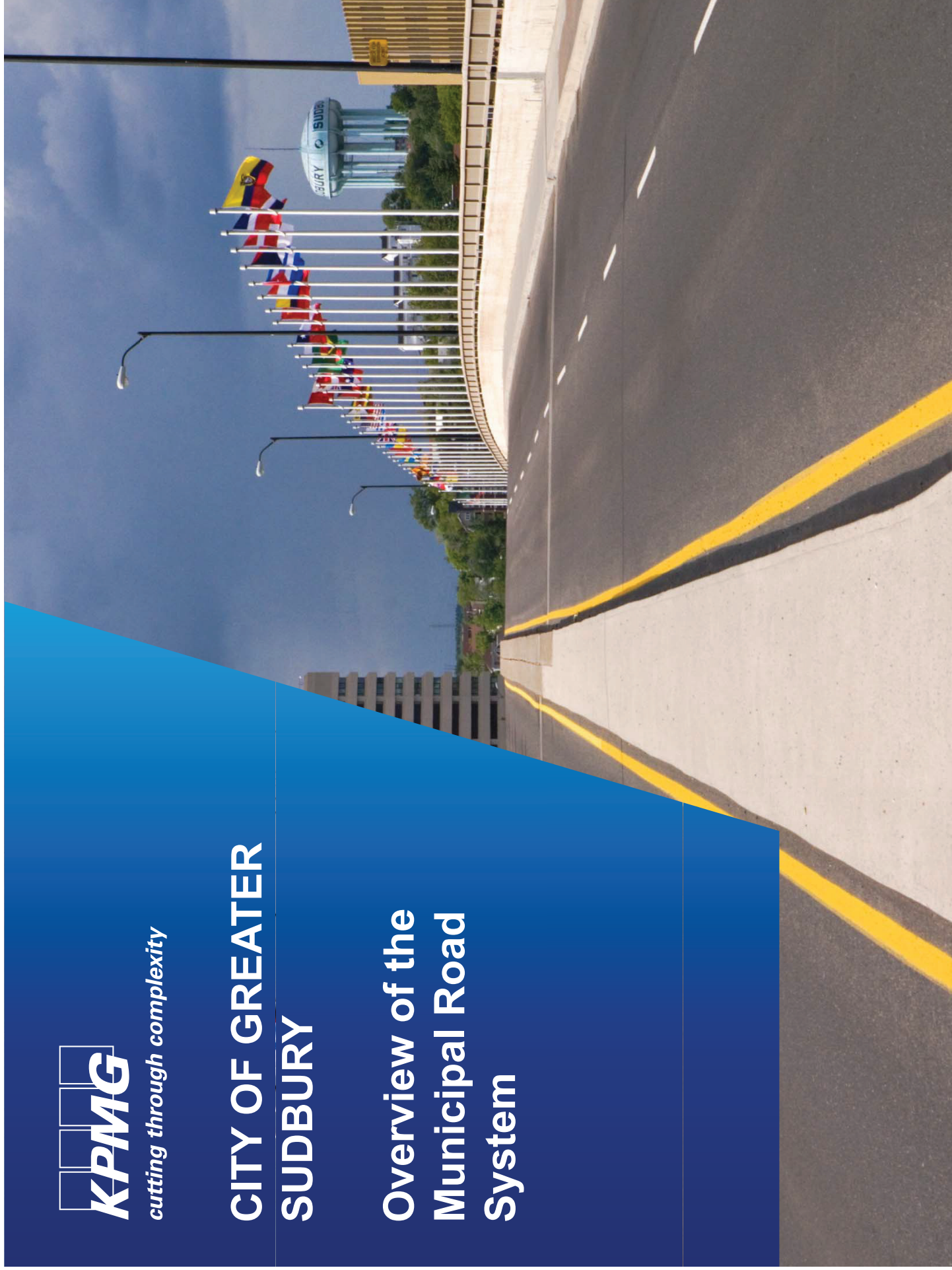
- An overview of the City's road network
- An analysis of historical and budgeted road expenditures (operating and capital)
- Observations concerning key challenges facing the City from a roads perspective
- An overview of the financial planning process, including key assumptions and outcomes



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CITY OF GREATER SUDBURY

Overview of the Municipal Road System



Overview of the Municipal Road System

Roads Categories

For the purposes of managing its road network, the City has categorized municipal roads into three groups – arterial, collector and local – based on traffic volumes, speeds and other considerations, with local roads representing the majority (62%) of all roads in Greater Sudbury. In addition, the City's road network is also classified by type of construction, with asphalt surfaced roads representing two-thirds of all roads infrastructure in the City (based on total lane kilometres¹).

Category	Characteristics	Lane kilometres				% of Total Road Network	Examples
		Asphalt	Surface Treatment	Gravel	Total		
Arterial roads	- Moderate to high traffic volumes - Medium to high speed - Two to six lanes - Limited to no on-street parking - Limited or controlled direct access	741	–	–	741	20.8%	Paris Street Garson-Falconbridge Road Barry Downe Road
Collector roads	- Low to moderate traffic volumes - Medium speed - Two to four lanes - Controlled on-street parking - Direct access (normally controlled)	616	–	–	616	17.3%	Errington Street (Chelmsford) Southview Drive Auger Avenue
Local roads	- Low traffic volumes - Low speed - Two lanes - On-street parking - Uncontrolled direct access	985	601	618	2,204	61.9%	Baker Street Laura Avenue Michael Street
Total		2,342	601	618	3,561	100.0%	
Percentage of total		65.8%	16.9%	17.3%	100.0%		

¹ A lane kilometre refers to one kilometre of single lane roadway. One kilometre of two lane road represents two lane kilometres, while five kilometres of four lane road represents 20 lane kilometres (four lanes x five kilometres = 20 lane kilometres).

Overview of the Municipal Road System

Assessing the Physical State of Greater Sudbury's Roads

Since 2000, the City has also classified its road network based on a Pavement Condition Index ("PCI"), which ranks roads based on four factors – structural cracking, non-structural cracking, rutting and roughness. Based on the PCI, roads can be assigned one of five rankings ranging from excellent to very poor, as noted below.

Category	PCI Score		Description
	Low	High	
Excellent	85	100	Sound pavement with few defects perceived by drivers
Good	60	85	Slight rutting and/or cracking and /or roughness that is noticeable to drivers
Fair	40	60	Multiple cracks are apparent and/or rutting may pull at the wheel and/or roughness necessitates drivers to make minor steering corrections
Poor	25	40	Significant cracks may cause potholes and/or rutting pulls at the vehicles and/or roughness is uncomfortable to occupants. Drivers may need to correct steering to avoid road defects.
Very poor	0	25	Significant cracks with potholes and/or rutting pulls at the vehicle and/or roughness is uncomfortable to occupants. Drivers will need to correct steering to avoid road defects.

Overview of the Municipal Road System

Assessing the Physical State of Greater Sudbury's Roads (continued)

While PCI provides an indication as to the current condition of the municipal road network, it also provides a framework for prioritizing capital spending. Guidance provided by the Ontario Good Roads Association attempts to link PCI to the timing and nature of capital spending on roads, recognizing that municipalities will adopt their own standards.

	Arterial	Collector	Local
Road condition is adequate	PCI > 85	PCI > 80	PCI > 80
Improvement required within six to 10 years	PCI of 76 to 85	PCI of 71 to 80	PCI of 66 to 80
Improvement required within one to five years	PCI of 56 to 75	PCI of 51 to 70	PCI of 46 to 65
Immediate rehabilitation	PCI of 50 to 55	PCI of 45 to 50	PCI of 40 to 45
Immediate reconstruction	PCI < 50	PCI < 45	PCI < 40

The most recent PCI rankings indicate that just over half of the City's road network is in either excellent or good condition. However, arterial and collector roads are in generally better condition than local roads. Two-thirds of arterial and collector roads is ranked as excellent or good as compared to 42% of local roads. Overall, the average PCI for the City's road network is in the order of 65 for arterial and collector roads and 57 for local roads¹.

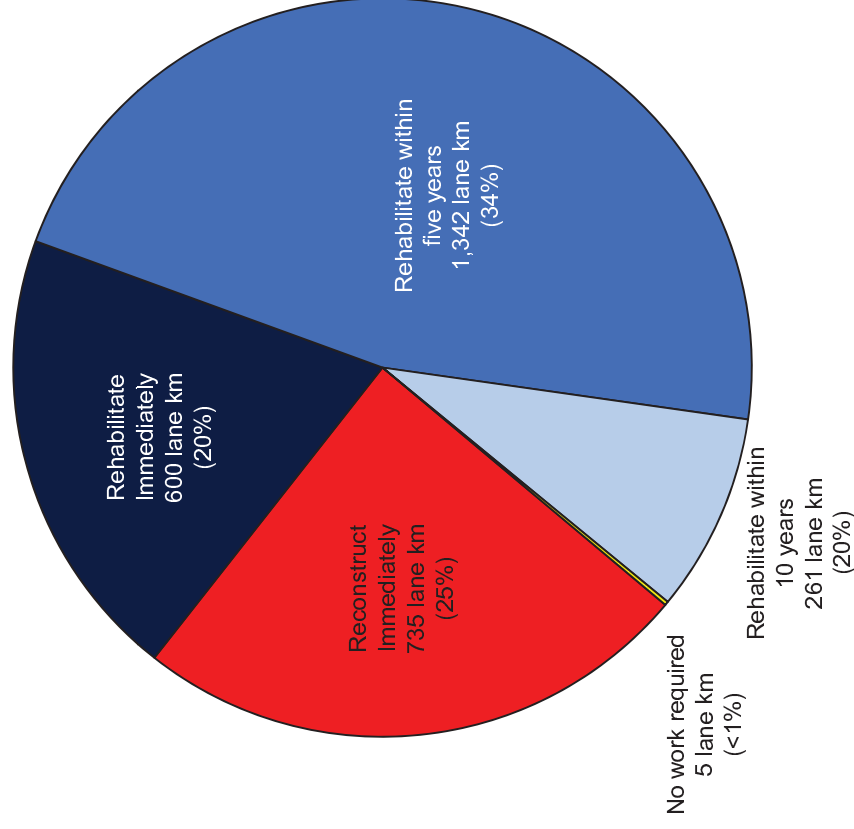
Category	PCI Index		Lane Kilometres				Percentage of Total	
	From	To	Arterial	Collector	Local	Total		
Excellent	85	100	39	–	4	43	1.5%	
Good	60	85	702	177	659	1,538	52.3%	
Fair	40	60	–	399	729	1,128	38.3%	
Poor	25	40	–	39	173	212	7.2%	
Very poor	0	25	–	1	21	22	0.7%	
Total – asphalt and surface treatment			741	616	1,586	2,943	100.0%	
Gravel						618		
Total						3,561		

Overview of the Municipal Road System

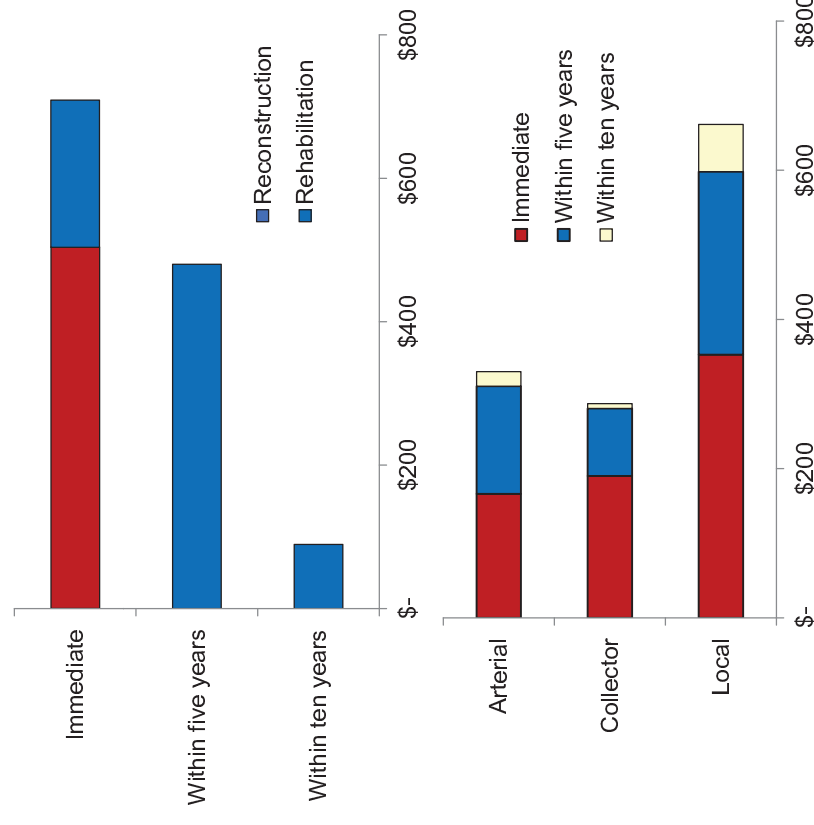
Assessing the Physical State of Greater Sudbury's Roads (continued)

Application of the guidance provided by the Ontario Good Roads Association to the City's municipal road network in 2009 identifies an immediate infrastructure deficit (representing roads that are considered to be in immediate need of rehabilitation or reconstruction) of approximately \$700 million, with an additional \$480 million and \$90 million in capital reinvestment required over the next five years. While the City has invested significantly in road infrastructure since 2009, the magnitude of this infrastructure deficit likely has not changed significantly as the ongoing aging of roads continues to add to the investment requirement.

Calculated capital investment requirement in 2009 (in lane kilometres)



Calculated capital investment requirement in 2009 (in millions of dollars)



Overview of the Municipal Road System Road Expenditures and Funding

The 2012 municipal budget anticipates just under \$75 million in spending on roads, comprised of \$38 million in operating costs and \$37 million in capital. Overall, road expenditures in 2012 are approximately 2.5% lower than the 2011 budgeted amounts, reflecting decreases in both operation and capital expenditures.

The municipal levy represents the largest source of funding for roads costs, amounted to over 80% of total revenues. Other funding sources for roads are primarily capital in nature and include Federal Gas Tax revenues, reserve contributions and advances from future years' capital envelopes.

Summary of roads expenditures and revenues¹

(in thousands)	2011 Budget		2012 Budget	
	Amount	Percentage	Amount	Percentage
Winter roads maintenance	\$15,294	20.0%	\$15,298	20.5%
Summer roads maintenance	\$14,522	19.0%	\$14,036	18.8%
Other costs	\$7,989	10.5%	\$8,252	11.1%
Total operating expenditures	\$37,805	49.5%	\$37,586	50.4%
Capital expenditures	\$38,619	50.5%	\$36,957	49.6%
Total roads expenditures	\$76,424	100.0%	\$74,543	100.0%
Municipal levy – operating purposes	\$36,555	47.8%	\$36,740	49.3%
Municipal levy – capital purposes	\$24,017	31.4%	\$24,498	32.9%
Gas tax grants	\$8,072	10.6%	\$7,960	10.7%
Other capital revenues	\$6,530	8.5%	\$4,499	6.0%
Other operating revenues	\$1,250	1.7%	\$846	1.1%
Total revenues	\$76,424	100.0%	\$74,543	100.0%

¹ Budgeted information for 2012 does not include the announced \$15 million contribution from Vale Canada Limited for the Municipal Road No. 4 capital project.

Overview of the Municipal Road System Capital Reinvestment

As part of its capital budgeting process, the City has prepared a multi-year outlook that forecasts capital spending over a five year period (2012 to 2016). While the City plans to continue investment in the municipal road network, including increasing capital fund envelopes by the non-residential construction rate of inflation, the total planned capital expenditures over the next five years (\$172 million) represents only 7% of the calculated infrastructure requirements over the next five years for existing assets only (\$2.5 billion).

In addition to its planned expenditures, the City has identified new road and drainage projects that are currently unfunded, meaning that sufficient financing has not been allocated to the projects. The cost of these unfunded capital projects is currently estimated to be in the order of \$241 million. As these projects reflect new and not existing infrastructure, they are not included in the calculated infrastructure deficit.

Unfunded roads and drainage projects (2012 cost estimates)

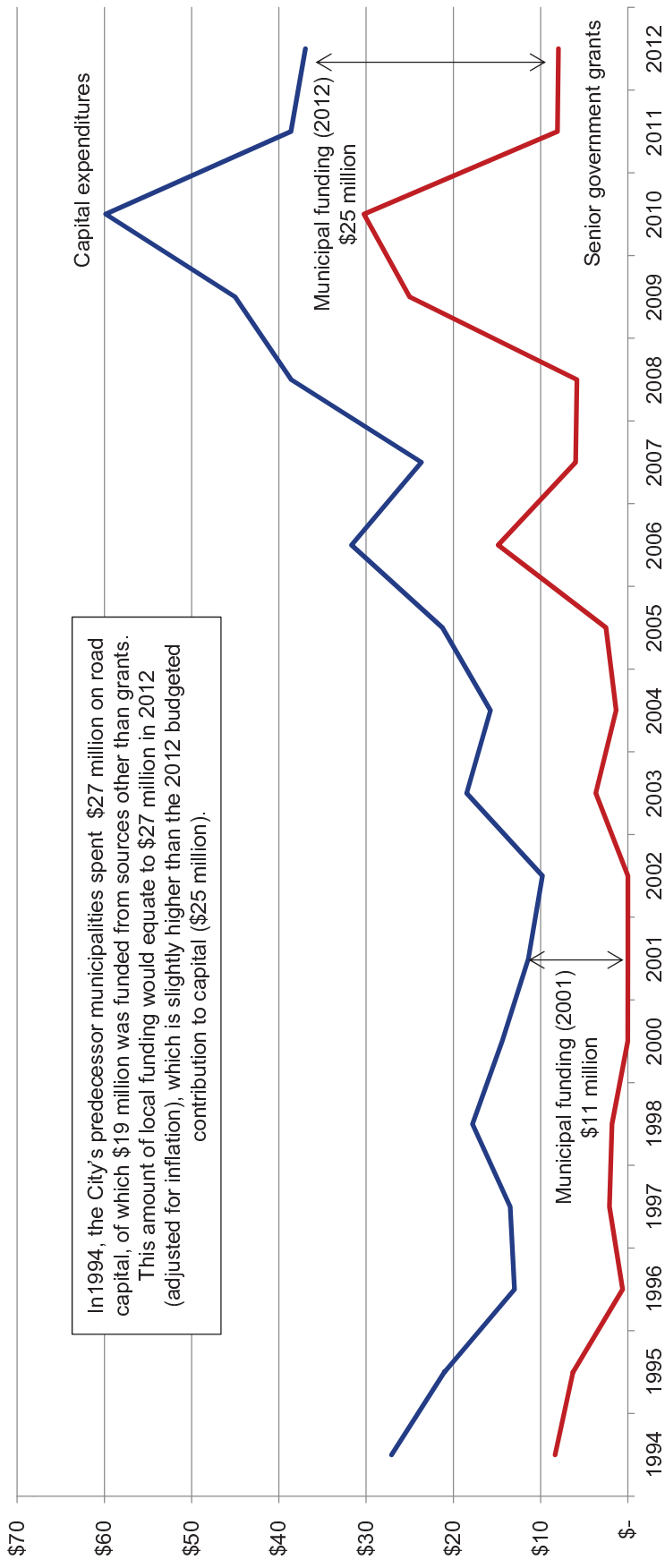
Project	Estimated Cost
A. Maley Drive Extension	
Total cost	\$115 million
Identified funding for Maley Drive extension	\$21 million
Maley Drive extension (unfunded component)	\$94 million
B. Other Growth Related Projects	
Municipal Road 35 widening (Azilda to Chelmsford)	\$29 million
Kingsway Boulevard realignment	\$25 million
Construction of new University link road	\$16 million
Notre Dame Avenue widening (Lasalle to Kathleen)	\$16 million
Lake Ramsey drainage system improvements	\$25 million
Junction Creek stormwater management	\$10 million
Other projects (each \$5 million or less)	\$26 million
Other capital projects	\$147 million
Total identified unfunded capital projects	\$241 million

Overview of the Municipal Road System

Historical Capital Expenditures and Grants

Historically, the level of capital expenditures available for roads and related infrastructure has been significantly influenced by the availability of grants from senior levels of government. In 1994, the predecessor municipalities spent a total of \$27 million on roads capital projects, including \$8 million in grants from senior levels of government. With the incorporation of conditional roads grants into municipal support grants in 1998, capital-specific grants for roads decreased to nil, with a corresponding reduction in capital expenditures by municipalities due to other external influences and financial pressures. Since that time, the City has significantly increase in capital expenditures for roads, due in large part to the availability of stimulus funding as well as the additional capital financing generated by the City's capital levy, both of which reflect the importance of roads infrastructure. The City's contribution to roads capital in 2012 is budgeted to be \$25 million, compared to \$11 million in 2001.

Roads capital expenditures and grant revenues – City of Greater Sudbury and predecessor municipalities (in millions)



Overview of the Municipal Road System Concerns and Challenges

As part of the financial planning process as well as other communications to Council, City staff have expressed concerns over the insufficiency of funding for the City's road network, both from an operational and capital perspective:

- Staff recommend that the City attempt to maintain an average PCI of 70 for arterial and collector roads, with an average PCI of 60 recommended for local roads. To achieve this standard, staff advised that total annual capital expenditures need to increase to \$65 million for arterial, collector and local roads, with additional funding required for drainage, structures, streetlights, signage and other components of the road network. As noted below, the capital budget for 2012 provides approximately 38% of the recommended roads funding on an overall basis, with arterial and collector roads receiving a higher percentage of the recommended funding (54%) than local roads (18%).

	Budgeted Expenditures (2012)	Recommended Expenditures	Difference	Percentage of Recommended Expenditures Provided
Arterial and collector roads	\$19.6 million	\$36.0 million	\$16.4 million	54.4%
Local roads	\$5.1 million	\$29.0 million	\$23.9 million	17.6%
Total	\$24.7 million	\$65.0 million	\$40.3 million	38.0%

- In November 2011, City staff prepared a Zero Based Budget analysis for summer roads maintenance programs which indicated that a total of \$18,041 million would be required to staff's recommended standard of maintenance for roads, an increase of approximately \$4.0 million above the 2012 budgeted expenditures. The majority of this increase results from three specific changes to service levels:
 - Increasing the amount of asphalt patching undertaken by contractors from 8,000 m² per year (representing 0.08% of the municipal road network) to 25,000 m² per year (0.24%) +\$700,000
 - Decrease the cycle for gravel resurfacing from 80 years to 20 years +\$800,000
 - Increasing the frequency of catchbasin and manhole repairs from a 29 year cycle to a 20 year cycle and cleaning from a six year cycle to a two year cycle +\$1,000,000



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CITY OF GREATER SUDBURY

Financial Planning for the Municipal Road System



Financial Planning for the Municipal Road System

Key Assumptions

The financial plan for the City's road network considers a ten year planning period (2013 to 2022) and establishes as its starting point the City's 2012 budget (operating and capital). Recognizing the significance of future infrastructure investment requirements, the financial plan considers two scenarios:

- **Scenario 1** assumes that the City will adopt a sustainable capital asset management plan for roads whereby capital contributions will increase over a 10-year period until such time as the level of capital funding is sufficient to provide for sustainable reinvestment in road infrastructure. Additionally, this scenario assumes that the Maley Drive extension will be the only significant investment in growth-related infrastructure, with other growth-related projects deferred. The Maley Drive extension is forecasted to be funded through a combination of grants, capital fund contributions and debt financing, with the debt servicing cost reflected in the financial model.
- **Scenario 2** is based on the first scenario but assumes that additional growth infrastructure projects (with a total forecasted cost of \$146 million) will also be undertaken by the City. These additional growth infrastructure projects are forecasted to be financed through a combination of grants and debt, with the debt servicing cost reflected in the financial model.

For both scenarios, the following assumptions have been considered:

- Operating costs have been increased by 3% annually, which reflects the assumed rate of inflation.
- Summer maintenance costs have been projected to increase by an additional amount to reflect a gradual increase in service levels consistent with those identified in the Zero Based Budget scenario prepared by staff. For the purpose of the financial plan, we have assumed that the service level increases will be phased-in over a five year period (2013 to 2017).
- Excluding inflationary increases, no adjustments (positive or negative) have been made to winter maintenance costs to reflect changing climatic conditions. To the extent that surpluses or deficits are experienced, it is assumed that the City will utilize its existing winter roads maintenance reserves to compensate for the budgetary variances.
- No changes in the method of allocating administrative costs or internal recoveries have been considered in the financial plan.
- Operating expenditures have not been adjusted to reflect the forecasted increases in capital spending, which will require additional resources for project management and other administrative responsibilities.

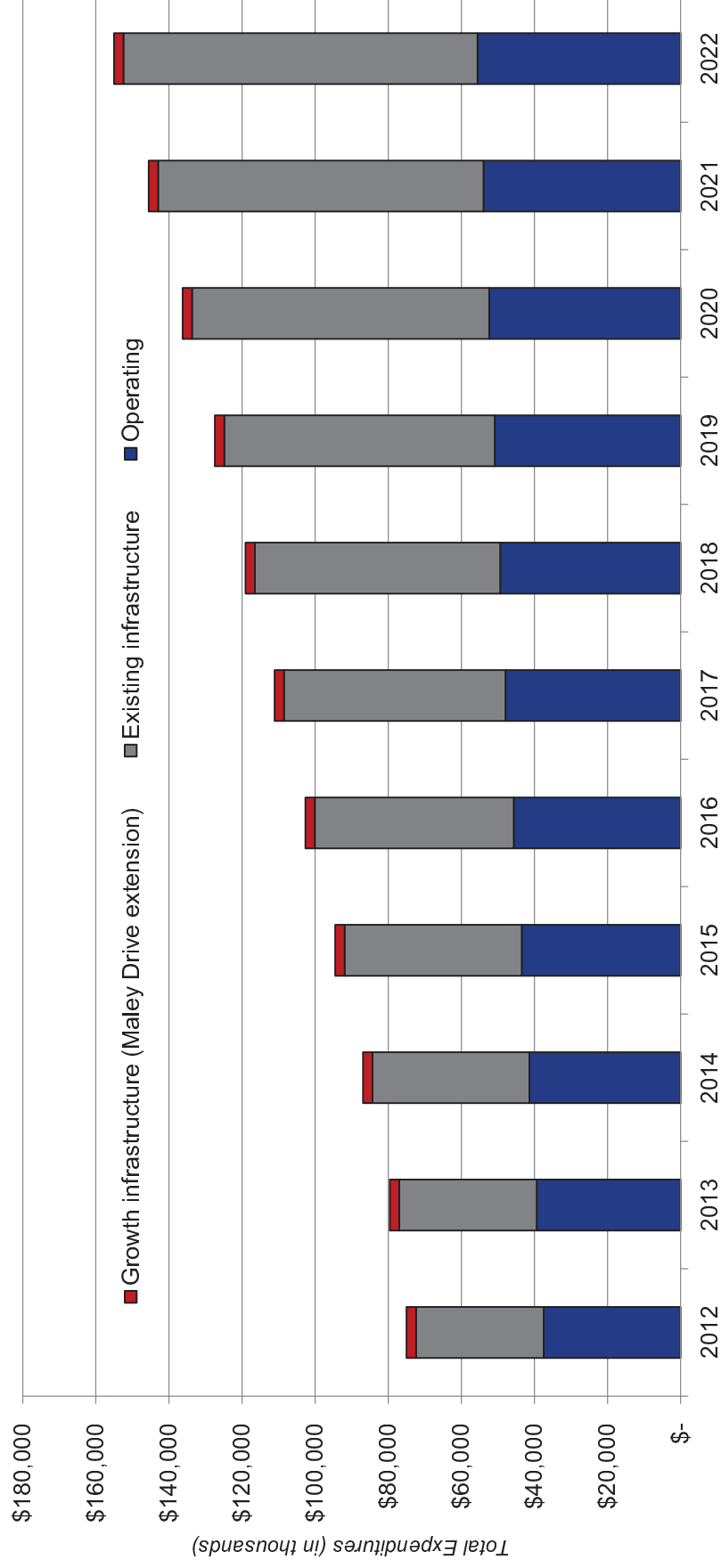
A summary of the financial plan is provided in the following pages, with detailed schedules included as appendices to this report.

Financial Planning for the Municipal Road System

Projected Road Costs – Scenario 1

The financial plan envisions operating costs increasing from \$37 million in 2012 to \$56 million in 2022, reflecting inflation and increases in service levels for summer roads maintenance. Capital spending on existing infrastructure is projected to increase from \$35 million to \$97 million, representing the required level of funding for sustainable capital maintenance. Capital spending for growth infrastructure represent the City's funding for the Maley Drive extension, comprised of debt servicing on the amounts borrowed to fund the City's local share of the project costs.

On an average annual basis, the increase in the overall municipal levy associated with this increase in roads expenditures (operating and capital) is 3.3% over the ten year planning period.

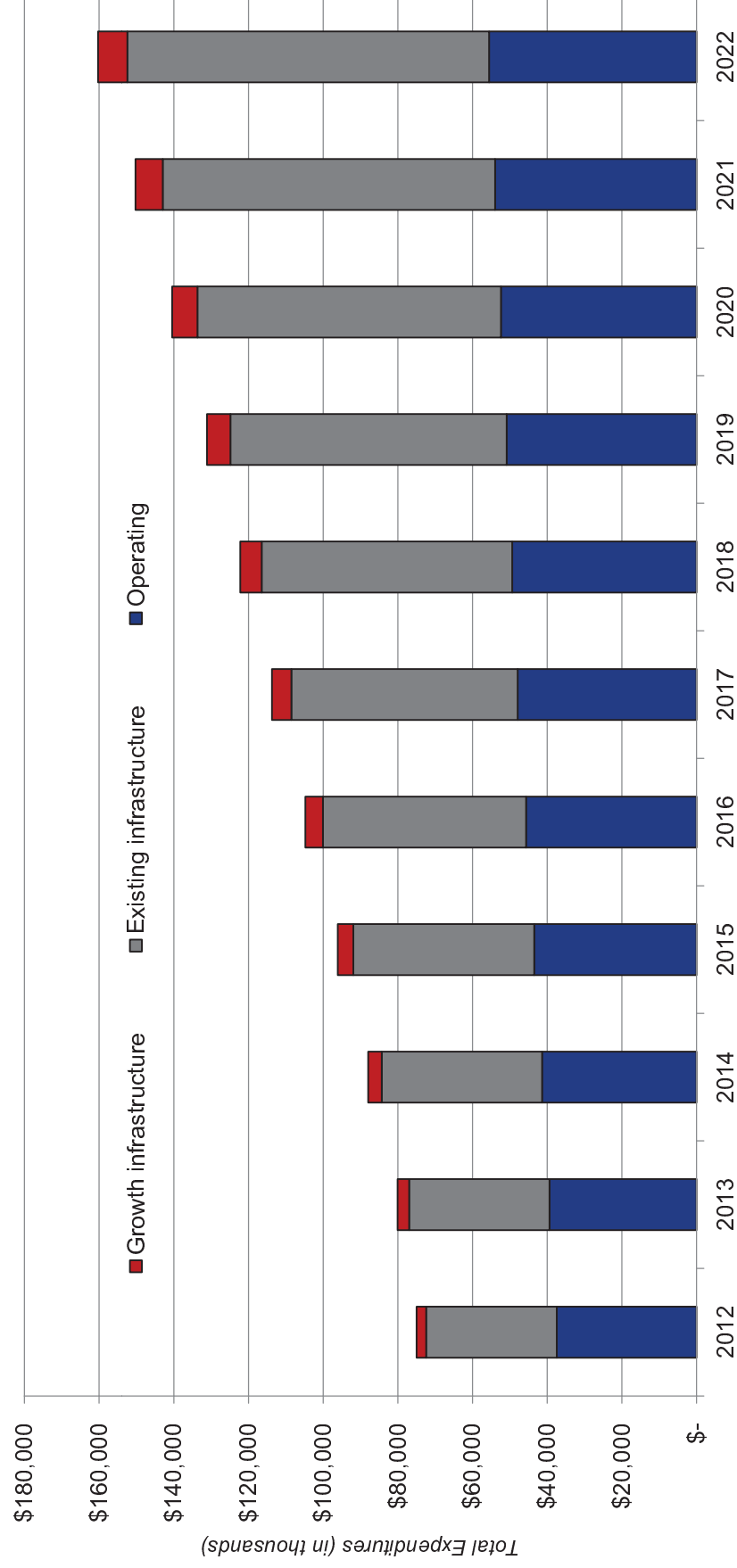


Financial Planning for the Municipal Road System

Projected Road Costs – Scenario 2

The second scenario reflects a higher level of funding for growth infrastructure, with additional growth-related projects undertaken during the planning period at a total cost of \$147 million. For the purposes of the financial model, it is assumed that the City's share of these project costs (i.e. total costs less grants received) will be funded through debt, with the City required to fund ongoing debt servicing costs.

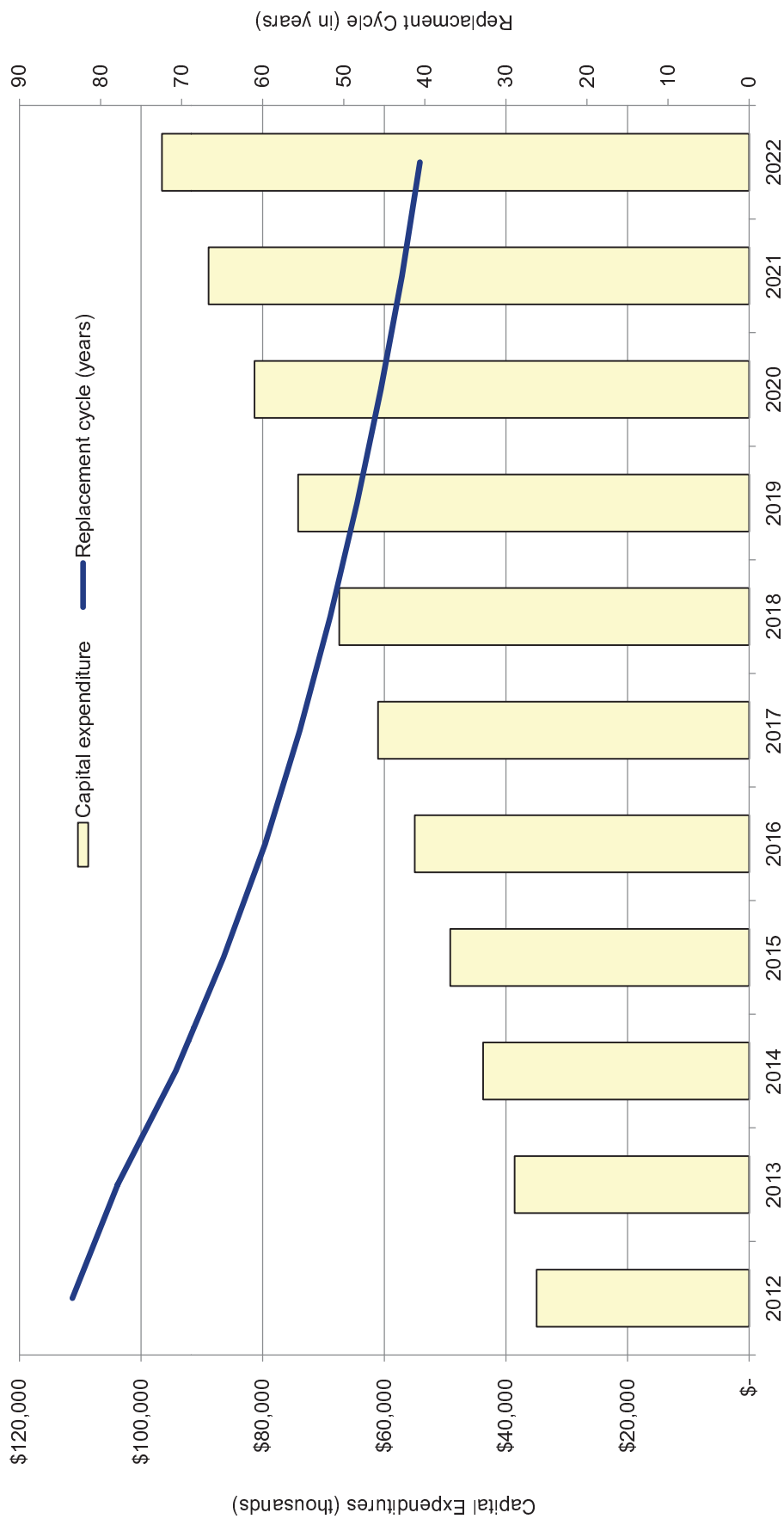
With the increased level of growth-related capital spending, the increase in the overall municipal levy associated with this scenario is 3.5% over the 10 year planning period, which is slightly higher than the forecasted increases in taxes under the first scenario (3.5%).



Financial Planning for Municipal Road System

Projected Capital Financing and Replacement Cycle

As the City's capital funding for its existing roads infrastructure increases by \$7 million per year, the replacement cycle is expected to decrease accordingly. Currently, the City's capital funding is sufficient to reconstruct/rehabilitate a road once every 80 years. At the end of the financial planning period, the reconstruct/rehabilitate cycle for roads is expected to approximate 40 years, which is reflective of the average useful life of a road.



Financial Planning for the Municipal Road System

Concluding Comments

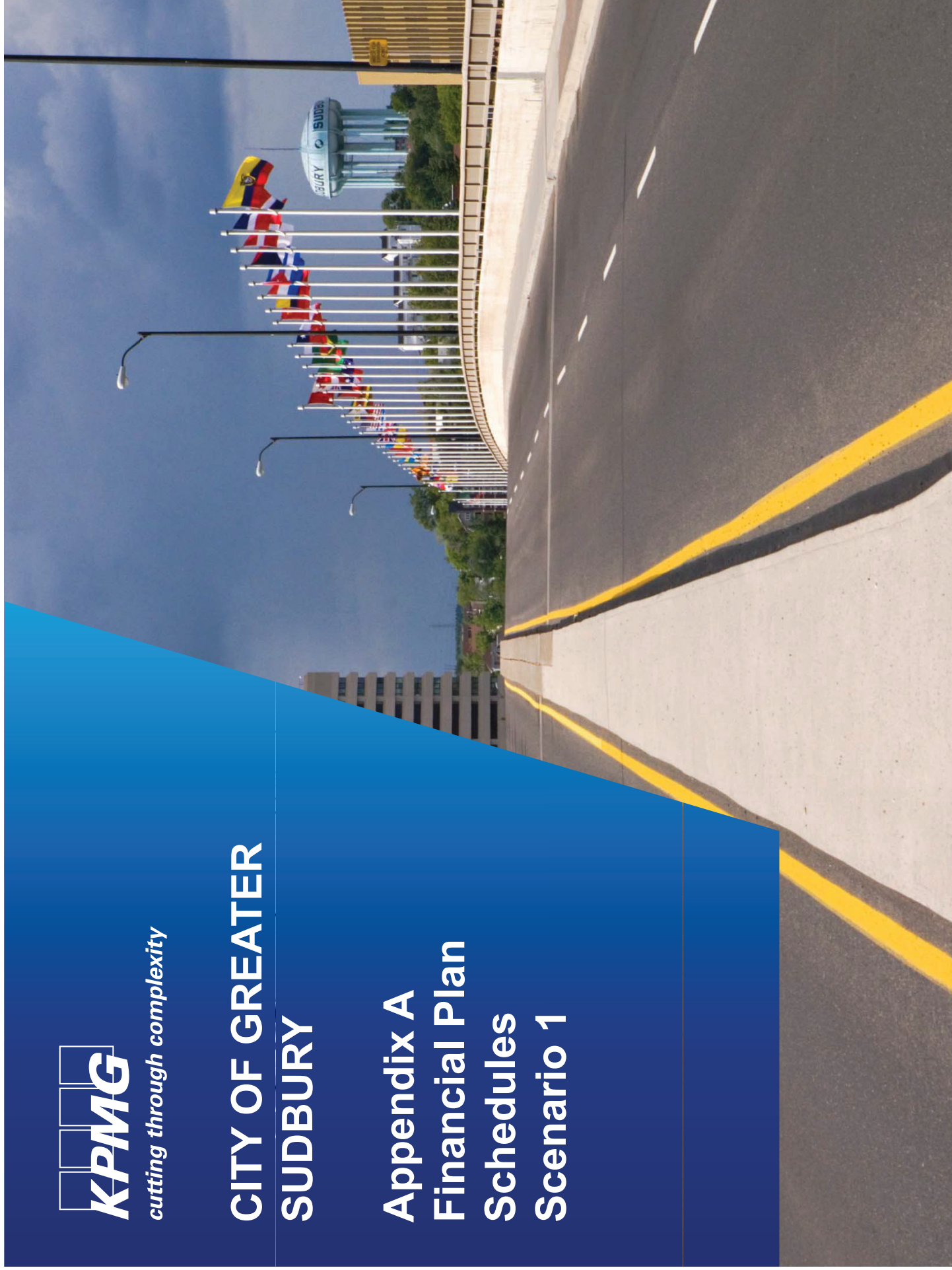
- Based on guidance from the Ontario Good Roads Association, the current infrastructure deficit for roads is estimated to be \$700 million, with an additional \$480 million to be invested within the next five years and a further \$90 million within the next 10 years.
- Achieving a sustainable level of capital investment would require the City to increase its annual capital expenditures from the currently level of \$35 million to \$75 million. Based on a ten-year phase-in period and after considering the effects of inflation, the City would be required to increase its annual capital funding by \$6.2 million per year in each of the next ten years to achieve this level of capital reinvestment.
- From an operating perspective, attaining the recommended standard of summer roads maintenance would require an additional investment of \$4 million in the City's roads budget.
- The City intends to pursue funding from senior levels of government to finance the cost of its roads infrastructure requirement. In the absence of other sources of funding, the City would be required to increase the municipal levy by 3.3% to 3.5% each year over the next 10 years to meet the financial requirements outlined in the financial plan. The range of levy increases reflects different assumptions concerning the City's investment in growth infrastructure.



cutting through complexity

CITY OF GREATER SUDBURY

Appendix A Financial Plan Schedules Scenario 1



CITY OF GREATER SUDBURY

Schedule 1

Statement of Projected Roads Financial Requirement
For the Years Ending December 31
(in thousands)

Reference	Budgeted 2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
(A) Operating expenditures											
Road maintenance and operating costs	37,458	39,383	41,388	43,480	45,661	47,933	49,370	50,851	52,377	53,949	55,566
	37,458	39,383	41,388	43,480	45,661	47,933	49,370	50,851	52,377	53,949	55,566
(B) Capital expenditures and allocations											
Existing infrastructure	34,949	37,598	42,914	48,448	54,415	60,578	67,103	74,005	81,300	89,005	96,877
Malley Drive expansion	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585
Other growth projects	-	-	-	-	-	-	-	-	-	-	-
	37,534	40,183	45,499	51,033	57,000	63,163	69,688	76,590	83,885	91,590	99,462
(C) TOTAL EXPENDITURES (A) + (B)	74,992	79,566	86,887	94,513	102,661	111,096	119,058	127,441	136,262	145,539	155,028
(D) Non-taxation operating revenue											
Grant revenue	(40)	(40)	(40)	(40)	(40)	(40)	(40)	(40)	(40)	(40)	(40)
User fees and other charges	(751)	(751)	(751)	(751)	(751)	(751)	(751)	(751)	(751)	(751)	(751)
Contributions from reserves and reserve funds	(60)	(60)	(60)	(60)	(60)	(60)	(60)	(60)	(60)	(60)	(60)
	(851)	(851)	(851)	(851)	(851)	(851)	(851)	(851)	(851)	(851)	(851)
(E) Capital grant revenue											
Existing infrastructure	(7,559)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)
Malley Drive expansion	-	-	-	-	-	-	-	-	-	-	-
Other growth projects	-	-	-	-	-	-	-	-	-	-	-
	(7,559)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)
(F) Other capital revenues											
Future year financing	(700)	350	200	150	-	-	-	-	-	-	-
Contribution from reserves	(3,800)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)
	(4,500)	(1,650)	(1,800)	(1,850)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)
(G) TOTAL NON-TAXATION REVENUE (D) + (E) + (F)	(13,310)	(10,386)	(10,536)	(10,586)	(10,736)	(10,736)	(10,736)	(10,736)	(10,736)	(10,736)	(10,736)
ROADS FUNDING FROM MUNICIPAL LEVY (C) - (G)	61,682	69,180	76,351	83,927	91,925	100,360	108,322	116,705	125,526	134,803	144,292
Total increase in roads funding from municipal levy											
- Operating	1,925	2,005	2,092	2,092	2,181	2,272	1,437	1,481	1,526	1,572	1,617
- Capital	5,573	5,166	5,484	5,484	5,817	6,163	6,525	6,902	7,295	7,705	8,172
	7,498	7,171	7,576	7,576	7,998	8,435	7,962	8,383	8,821	9,277	9,789
Percentage increase in roads funding from municipal levy:											
- Operating	3.1%	2.9%	2.7%	2.7%	2.6%	2.5%	1.4%	1.4%	1.3%	1.3%	1.2%
- Capital	9.0%	7.5%	7.2%	7.2%	6.9%	6.7%	6.5%	6.4%	6.3%	6.1%	5.8%
	12.2%	10.4%	9.9%	9.9%	9.5%	9.2%	7.9%	7.7%	7.6%	7.4%	7.0%
Percentage increase in municipal levy:											
- Operating	0.9%	0.9%	0.9%	0.9%	0.9%	0.9%	0.6%	0.6%	0.6%	0.6%	0.6%
- Capital	2.6%	2.3%	2.4%	2.4%	2.5%	2.5%	2.6%	2.6%	2.7%	2.8%	2.7%
	3.5%	3.2%	3.3%	3.3%	3.4%	3.5%	3.2%	3.2%	3.3%	3.3%	3.3%
Average annual tax increase											3.3%

Notes:

- (1) Represents contributions to capital for Malley Drive project costs and debt servicing costs.
- (2) Under this scenario, no growth projects other than Malley Drive have been considered.
- (3) Malley Drive and other growth projects are reflected on a net basis, with the cost of the projects netted against grant revenues and debt proceeds. Accordingly, the financial model reflects the debt servicing cost associated with growth-related borrowings.

CITY OF GREATER SUDBURY

Schedule 2

Statement of Projected Roads Operating Costs
For the Years Ending December 31
(In thousands)

Reference	Budget 2012	2013	2014	2015	2016	Projected					2021	2022
						2017	2018	2019	2020			
Administration (note 1)	\$ 462	476	490	505	520	536	552	569	586	604	622	
Summer maintenance (note 1)	13,926	14,344	14,774	15,217	15,674	16,144	16,628	17,127	17,641	18,170	18,715	
Winter maintenance (note 1)	15,283	15,741	16,213	16,699	17,200	17,716	18,247	18,794	19,358	19,939	20,537	
Streetslighting (note 1)	2,363	2,434	2,507	2,582	2,659	2,739	2,821	2,906	2,993	3,083	3,175	
Engineering (note 1)	4,966	5,115	5,268	5,426	5,589	5,757	5,930	6,108	6,291	6,480	6,674	
Other (note 1)	458	472	486	501	516	531	547	563	580	597	615	
Operating costs before undereported items	37,458	38,582	39,738	40,930	42,158	43,423	44,725	46,067	47,449	48,873	50,338	
Service level increases for summer roads maintenance (note 2) :												
Cumulative annual increase, beginning of year	-	-	801	1,650	2,550	3,503	4,510	4,645	4,784	4,928	5,076	
Inflationary increase on prior year's cumulative increase	-	-	24	50	77	105	135	139	144	152	158	
Current year's increase	-	801	825	850	876	902	928	954	980	1,006	1,032	
Cumulative annual increase, end of year	-	801	1,650	2,550	3,503	4,510	4,645	4,784	4,928	5,076	5,228	
Total projected roads operating costs	\$ 37,458	39,383	41,388	43,480	45,661	47,933	49,370	50,851	52,377	53,949	55,566	

Notes:

- (1) Based on the approved 2012 budget levels, adjusted for inflation at a rate of 3% per year. Amounts included all operating costs except for transfer to capital fund.
- (2) Represents the incremental summer maintenance costs required as per the City's zero-based budget analysis. For the purpose of our analysis, we have assumed a five-year phase-in period.

CITY OF GREATER SUDBURY

Statement of Projected Roads Capital Financing Requirement
For the Years Ending December 31
(in thousands)

Schedule 3

References	Budget		Projected									
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Sustainable capital investment requirement, beginning of year	(note 1)	\$ 69,986	72,086	74,249	76,476	78,770	81,133	83,567	86,074	88,656	91,316	
Inflationary adjustment	(note 2)	2,100	2,163	2,227	2,294	2,363	2,434	2,507	2,582	2,660	2,739	
Sustainable capital investment requirement, end of year		72,086	74,249	76,476	78,770	81,133	83,567	86,074	88,656	91,316	94,055	
Less:												
Provision for Federal and Provincial gas tax grants	Schedule 1	(7,869)	(7,869)	(7,869)	(7,869)	(7,869)	(7,869)	(7,869)	(7,869)	(7,869)	(7,869)	
Contributions from reserves and other non-taxation capital revenue	Schedule 1	(3,800)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	
Net local requirement for roads capital before phase-in provisions		60,327	64,364	66,591	68,885	71,248	73,682	76,189	78,771	81,431	84,170	
Phase-in percentage	(note 3)	37.3%	43.6%	49.9%	56.2%	62.5%	68.8%	75.1%	81.4%	87.7%	94.0%	
Net roads capital spending before debt		22,490	28,063	33,229	38,713	44,530	50,693	57,218	64,120	71,415	79,120	
Less: Debt financing	(note 4)	-	-	-	-	-	-	-	-	-	-	
Contribution to capital fund		\$ 22,490	\$ 28,063	\$ 33,229	\$ 38,713	\$ 44,530	\$ 50,693	\$ 57,218	\$ 64,120	\$ 71,415	\$ 79,120	
Estimated replacement value of roads infrastructure, prior year:												
Land	(note 5)	11,411	11,753	12,106	12,469	12,843	13,228	13,625	14,034	14,455	14,889	
Drains	(note 5)	22,658	23,338	24,038	24,759	25,502	26,267	27,055	27,867	28,703	29,564	
Streetlighting	(note 5)	17,613	18,141	18,685	19,246	19,823	20,418	21,031	21,662	22,312	22,981	
Bridges and culverts	(note 5)	252,909	260,496	268,311	276,390	284,651	293,191	301,987	311,047	320,378	329,889	
Gravel roads	(note 5)	163,601	168,509	173,564	178,771	184,134	189,658	195,348	201,208	207,244	213,461	
Arterial roads (urban and rural)	(note 5)	623,652	642,362	661,633	681,462	701,926	722,984	744,674	767,014	789,024	811,725	
Collector roads (urban and rural)	(note 5)	563,335	580,235	597,642	615,571	634,038	653,059	672,651	692,831	713,616	735,024	
Local roads (urban and rural)	(note 5)	1,176,728	1,212,000	1,248,391	1,285,913	1,324,418	1,364,151	1,405,076	1,447,228	1,490,684	1,535,384	
Traffic signals and signs	(note 5)	22,866	23,552	24,286	24,966	25,737	26,508	27,301	28,119	28,933	29,727	
Inflationary increase		2,854,716	2,940,416	3,028,628	3,119,487	3,213,072	3,309,464	3,408,748	3,511,010	3,616,340	3,724,830	
Estimated replacement value of roads infrastructure, current year		85,643	88,212	90,859	93,585	96,392	99,284	102,262	105,330	108,490	111,745	
Contribution to capital fund	Schedule 1	2,940,416	3,028,628	3,119,487	3,213,072	3,309,464	3,408,748	3,511,010	3,616,340	3,724,830	3,836,575	
Future year financing	(note 6)	22,490	28,063	33,229	38,713	44,530	50,693	57,218	64,120	71,415	79,120	
Contributions from reserves and other non-taxation capital revenue	Schedule 1	(3,800)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	
Federal and Provincial gas tax grants	Schedule 1	7,869	7,869	7,869	7,869	7,869	7,869	7,869	7,869	7,869	7,869	
Total capital financing		\$ 34,949	\$ 37,558	\$ 42,914	\$ 48,448	\$ 54,415	\$ 60,578	\$ 67,103	\$ 74,005	\$ 81,300	\$ 89,077	
Capital financing as a percentage of replacement value		1.2%	1.2%	1.4%	1.5%	1.6%	1.8%	1.9%	2.0%	2.2%	2.3%	
Projected replacement cycle (in years)		84	81	73	66	61	56	52	49	46	43	

Notes:

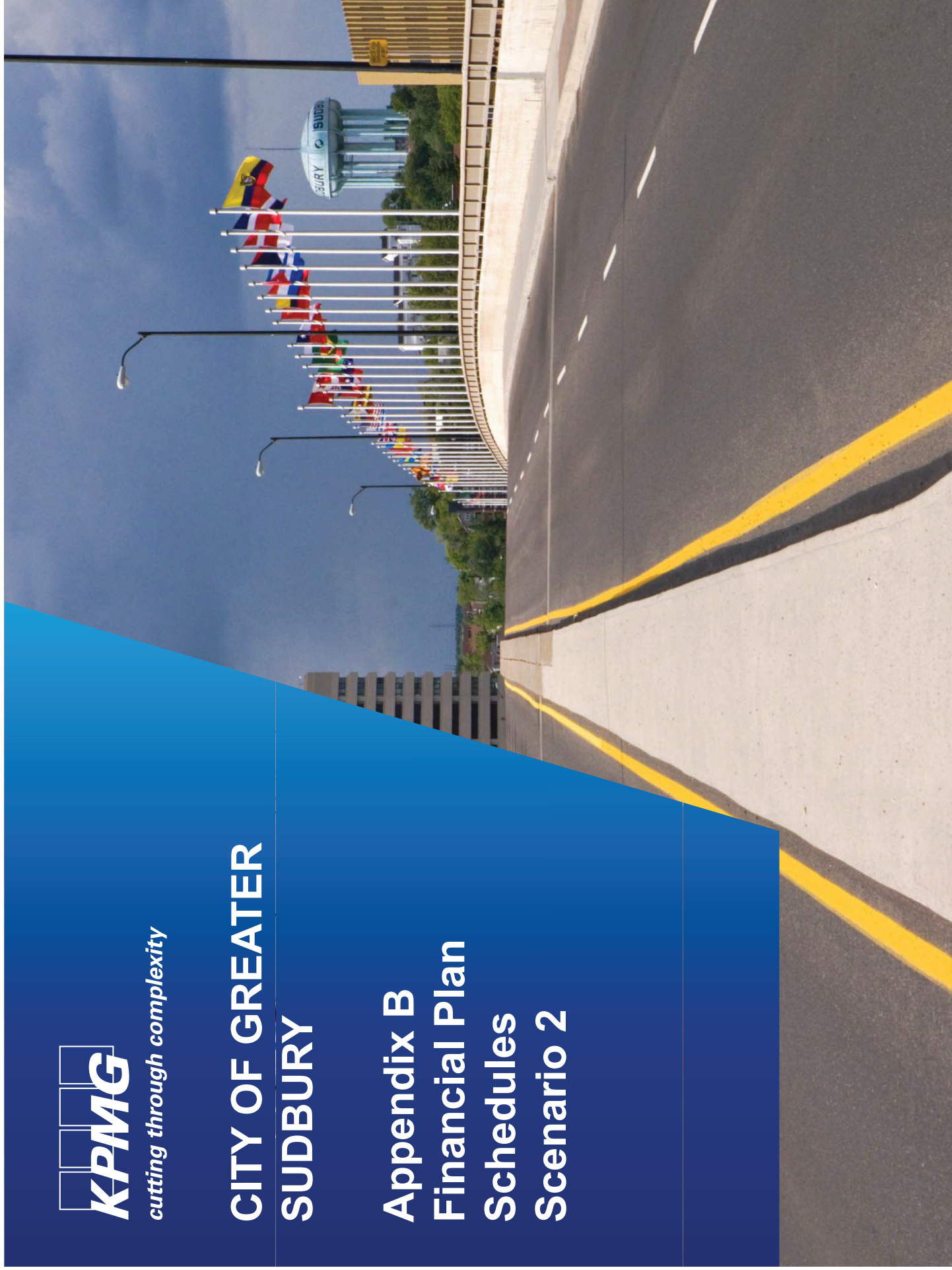
- (1) KPMG calculation based on estimated replacement value and useful lives of municipal road infrastructure.
- (2) Assumes a 10-year capital phase-in period.
- (3) Assumes a 10-year capital phase-in period.
- (4) For the purposes of our analysis, no debt financing has been considered for capital expenditures relating to existing infrastructure.
- (5) Based on tangible capital asset information provided by the City.



cutting through complexity

CITY OF GREATER SUDBURY

Appendix B Financial Plan Schedules Scenario 2



CITY OF GREATER SUDBURY

Schedule 1

Statement of Projected Roads Financial Requirement
For the Years Ending December 31
(in thousands)

Reference	Budgeted 2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
(A) Operating expenditures											
Road maintenance and operating costs	37,458	39,383	41,388	43,480	45,661	47,933	49,370	50,851	52,377	53,949	55,566
	37,458	39,383	41,388	43,480	45,661	47,933	49,370	50,851	52,377	53,949	55,566
(B) Capital expenditures and allocations											
Existing infrastructure	34,949	37,598	42,914	48,448	54,415	60,578	67,103	74,005	81,300	89,005	96,877
Malley Drive expansion	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585
Other growth projects	524	524	1,048	1,572	2,096	2,620	3,144	3,668	4,192	4,716	5,242
	37,534	40,707	46,547	52,605	59,096	65,783	72,832	80,258	88,077	96,306	104,704
(C) TOTAL EXPENDITURES (A) + (B)	74,992	80,090	87,935	96,085	104,757	113,716	122,202	131,109	140,454	150,255	160,270
(D) Non-taxation operating revenue											
Grant revenue	(40)	(40)	(40)	(40)	(40)	(40)	(40)	(40)	(40)	(40)	(40)
User fees and other charges	(751)	(751)	(751)	(751)	(751)	(751)	(751)	(751)	(751)	(751)	(751)
Contributions from reserves and reserve funds	(60)	(60)	(60)	(60)	(60)	(60)	(60)	(60)	(60)	(60)	(60)
	(851)	(851)	(851)	(851)	(851)	(851)	(851)	(851)	(851)	(851)	(851)
(E) Capital grant revenue											
Existing infrastructure	(7,859)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)
Malley Drive expansion	-	-	-	-	-	-	-	-	-	-	-
Other growth projects	-	-	-	-	-	-	-	-	-	-	-
	(7,859)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)
(F) Other capital revenues											
Future year financing	(700)	350	200	150	-	-	-	-	-	-	-
Contribution from reserves	(3,800)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)
	(4,500)	(1,650)	(1,800)	(1,850)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)
(G) TOTAL NON-TAXATION REVENUE (D) + (E) + (F)	(13,310)	(10,386)	(10,536)	(10,586)	(10,736)	(10,736)	(10,736)	(10,736)	(10,736)	(10,736)	(10,736)
ROADS FUNDING FROM MUNICIPAL LEVY (C) - (G)	61,682	69,704	77,389	85,489	94,021	102,980	111,466	120,373	129,718	139,519	149,534
Total increase in roads funding from municipal levy	-	-	-	-	-	-	-	-	-	-	-
- Operating	1,925	1,925	2,005	2,092	2,181	2,272	1,437	1,481	1,526	1,572	1,617
- Capital	6,097	6,097	5,690	6,008	6,341	6,687	7,049	7,426	7,819	8,229	8,398
	8,022	8,022	7,695	8,100	8,522	8,959	8,486	8,907	9,345	9,801	10,015
Percentage increase in roads funding from municipal levy:											
- Operating	3.1%	2.9%	2.7%	2.7%	2.6%	2.4%	1.4%	1.3%	1.3%	1.2%	1.2%
- Capital	9.9%	8.2%	7.8%	7.4%	7.4%	7.1%	6.8%	6.7%	6.5%	6.3%	6.0%
	13.0%	11.0%	10.5%	10.0%	10.0%	9.5%	8.2%	8.0%	7.8%	7.6%	7.2%
Percentage increase in municipal levy:											
- Operating	0.9%	0.9%	0.9%	0.9%	0.9%	0.9%	0.6%	0.6%	0.6%	0.6%	0.6%
- Capital	2.9%	2.6%	2.7%	2.8%	2.7%	2.7%	2.8%	2.8%	2.9%	2.9%	2.9%
	3.8%	3.5%	3.6%	3.6%	3.6%	3.6%	3.4%	3.4%	3.4%	3.5%	3.4%
Average annual tax increase											3.5%

Notes:

- (1) Represents contributions to capital for Malley Drive project costs and debt servicing costs.
- (2) Under this scenario, growth projects totaling \$247 million are anticipated to be undertaken during the financial planning period.
- (3) Malley Drive and other growth projects are reflected on a net basis, with the cost of the projects netted against grant revenues and debt proceeds. Accordingly, the financial model reflects the debt servicing cost associated with growth-related borrowings.

CITY OF GREATER SUDBURY

Schedule 2

Statement of Projected Roads Operating Costs
For the Years Ending December 31
(In thousands)

Reference	Budget 2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Administration (note 1)	\$ 462	476	490	505	520	536	552	569	586	604	622
Summer maintenance (note 1)	13,926	14,344	14,774	15,217	15,674	16,144	16,628	17,127	17,641	18,170	18,715
Winter maintenance (note 1)	15,283	15,741	16,213	16,699	17,200	17,716	18,247	18,794	19,358	19,939	20,537
Streetslighting (note 1)	2,363	2,434	2,507	2,582	2,659	2,739	2,821	2,906	2,993	3,083	3,175
Engineering (note 1)	4,966	5,115	5,268	5,426	5,589	5,757	5,930	6,108	6,291	6,480	6,674
Other (note 1)	453	472	486	501	516	531	547	563	580	597	615
Operating costs before undemoted items	37,458	38,582	39,738	40,930	42,158	43,423	44,725	46,067	47,449	48,873	50,338
Service level increases for summer roads maintenance (note 2) :											
Cumulative annual increase, beginning of year	-	-	801	1,650	2,550	3,503	4,510	4,645	4,784	4,928	5,078
Inflationary increase on prior year's cumulative increase	-	-	24	105	77	105	135	139	144	148	152
Current year's increase	-	801	825	850	876	902	928	954	980	1,006	1,032
Cumulative annual increase, end of year	-	801	1,650	2,550	3,503	4,510	4,645	4,784	4,928	5,078	5,228
Total projected roads operating costs	\$ 37,458	39,383	41,388	43,480	45,661	47,933	49,370	50,851	52,377	53,949	55,566

Notes:

- (1) Based on the approved 2012 budget levels, adjusted for inflation at a rate of 3% per year. Amounts included all operating costs except for transfer to capital fund.
- (2) Represents the incremental summer maintenance costs required as per the City's zero-based budget analysis. For the purpose of our analysis, we have assumed a five-year phase-in period.

CITY OF GREATER SUDBURY

Statement of Projected Roads Capital Financing Requirement
For the Years Ending December 31
(in thousands)

Schedule 3

References	Budget		Projected									
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Sustainable capital investment requirement, beginning of year												
Inflationary adjustment												
Sustainable capital investment requirement, end of year												
Less:												
Provision for Federal and Provincial gas tax grants												
Contributions from reserves and other non-taxation capital revenue												
Net local requirement for roads capital before phases-in provisions												
Phase-in percentage												
Net roads capital spending before debt												
Less: Debt financing												
Contribution to capital fund												
Estimated replacement value of roads infrastructure, prior year												
Land												
Drains												
Streetlighting												
Bridges and culverts												
Gravel roads												
Arterial roads (urban and rural)												
Collector roads (urban and rural)												
Local roads (urban and rural)												
Traffic signals and signs												
Inflationary increase												
Estimated replacement value of roads infrastructure, current year												
Contribution to capital fund												
Utility area financing												
Contributions from reserves and other non-taxation capital revenue												
Federal and Provincial gas tax grants												
Total capital financing												
Capital financing as a percentage of replacement value												
Projected replacement cycle (in years)												

Notes:

- (1) KPMG calculation based on estimated replacement value and useful lives of municipal road infrastructure.
- (2) Assumed a 10-year replacement cycle.
- (3) Assumes a 10-year capital phase-in period.
- (4) For the purposes of our analysis, no debt financing has been considered for capital expenditures relating to existing infrastructure.
- (5) Based on tangible capital asset information provided by the City.

Financial Planning for Roads Restrictions

The financial plan outlined in this report represents a forecast of the financial performance of the City's roads services under a series of assumptions that are documented within the plan. The financial plan does not represent a formal, multi-year budget for roads. The approval of operating and capital budgets for roads is undertaken as part of the City's overall annual budgeting process. Accordingly, the financial performance outlined in this document is subject to change based on future decisions of Council with respect to operating and capital costs, tax increases and unforeseen revenues and expenses. It is the intention of the City to adjust the financial plan on an annual basis to reflect the most recent budgetary decisions made by Council.

The information contained in this report has been compiled from information provided by the City. We have not audited, reviewed or otherwise attempted to verify the accuracy or completeness of such information. Readers are cautioned that this information may not be appropriate for their purposes. We reserve the right (but will be under no obligation) to amend this report and advise accordingly in the event that, in our opinion, new material information comes to our attention that may be contrary to or different from that which is set out in this document. Comments in this report should not be interpreted to be legal advice or opinion.

The contents of this report reflect our understanding of the facts derived from the examination of documents provided to us. This report includes or makes reference to future oriented financial information. We have not audited or otherwise reviewed the financial information or supporting assumptions and as such, express no opinion as to the reasonableness of the information provided.

The individuals that prepared this report did so to the best of their knowledge, acting independently and objectively. KPMG LLP's compensation is not contingent on any action or event resulting from the use of this report.

This report, including any attached appendices, must be considered in its entirety by the reader.



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