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**Asset  
Management  
Plan**

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**TOWNSHIP OF SOUTH GLENGARRY**

## EXECUTIVE SUMMARY:

Some of the key strategic priorities for South Glengarry involve municipal infrastructure, so maintaining our infrastructure is key to achieving our goals. The Township has a significant amount of assets and this plan covers roads, bridges, culverts, water and wastewater infrastructure. The plan details the state of these infrastructure as well as provides a ten year financial plan. To be sustainable, the financial plan does require secure and stable funding from the Provincial and Federal Governments.

## INTRODUCTION:

The following assets are included as part of this asset management plan: bridges and culverts, roads, and water and wastewater infrastructure. The Township is not responsible for social housing. All assets will ultimately be added to this asset management plan, with fleet, fire department infrastructure, and facilities nearly ready to be added. Maintaining these assets is related to as well as key to achieve the strategic priorities guiding the governance and operation of the Township.

The Township's mission statement is as follows:

*The Council and Administration of the Township of South Glengarry, a proud rural community with a vibrant heritage, are committed to excellence in the delivery of municipal services and shall, with a competitive tax rate and focused on our prescribed legislative mandate, balance the demands of the Corporation and provide the efficient delivery of services that maximizes the quality of life of its diverse communities and residents.*

The Township's strategic areas and priorities are:

*Roads and Bridges  
Water & Wastewater  
Customer Service  
Communications  
Economic Development*

The County Official Plan identifies the following goals:

*To achieve a compact and energy efficient land use pattern that optimizes the use of available or planned infrastructure (roads, water, sewage, waste disposal, utilities) and public service facilities (schools, health care, recreation and cultural facilities, fire, police and emergency services) and which uses densities and development standards which are cost effective and compatible with the prevailing and emerging character of settlement areas.*

*To achieve a level of public services and infrastructure that is accessible, available, cost-effective and efficient in meeting the needs of existing and new development.*

*To manage the community's renewable and non-renewable resources in a responsible manner through the development of policies, tools and practices designed to identify, protect, conserve, enhance or utilize these resources over the short and long-term and which provide for the transition to other land uses where a non-renewable resource has been depleted.*

*To safeguard the public and the natural environment from natural and human-made hazards through the development of policies, tools and processes to identify, evaluate, prevent or protect against such hazards.*

*To manage the community's heritage resources in a responsible manner through the development of policies, tools and processes to identify, recognize, document, protect, rescue and conserve these resources.*

One can see from these strategic goals and priorities that infrastructure is a key focus of the Township. Indeed, all three asset types included in this plan have previously been identified as strategic priorities for the Township.

|                                 |   |
|---------------------------------|---|
| ASSET:                          | Bridges and culverts  |
| STATE OF THE INFRASTRUCTURE:    |   |
| Inventory -                     | 63  |
| Replacement Cost -              | \$20,000,000  |
| Valuation -                     | \$7,500,000   |
| Asset Life Cycle -              | Estimated useful life: bridge – 75 years, average age – 46 (1920-1995); concrete culvert – 75 years, average age – 47 (1940-2009); steel culvert – 40 years, average age – 40 (1960-1982)   |
| Asset Condition/Urgency -       | See Appendix A  |
| REHAB & REPLACEMENT CRITERIA:   | Consideration will be given to historical life cycle, bridge condition index, traffic counts, safety issues, repair costs, changes due to technology, localized population growth, economic development opportunities, available funding, etc.  |
| REHAB & REPLACEMENT STRATEGIES: | It is anticipated that the current inventory will continue and no new bridges or culverts will be constructed or added. The current inventory will be included in biennial inspections completed by external experts. Optimal timing of maintenance and rehabilitation efforts is key to maximizing life expectancy. Priorities are identified in the 2011 Bridge Inspection Report. Annual budgeting will achieve the recommended results. Best practices will be monitored and implemented where appropriate. |
| LIFE CYCLE CONSEQUENCES:        | End of life risks: deterioration of structures, increased safety concerns, increased repair and maintenance costs, may cause impacts to other local services (garbage collection, emergency services, etc.), travel disruptions and increased costs to area businesses and residents.   |
| INTEGRATED:                     | Rehabilitation and replacement may be integrated with road resurfacing or road widening projects but generally not with other infrastructure.   |
| FINANCING STRATEGY:             | See Appendix C  |
| PERFORMANCE MEASURES:           | Establish benchmarks as part of the implementation of the asset management plan which can then be used as performance measures. Monitor and review rehabilitation and replacement strategies regularly to determine cost vs performance adjustments. Achieve reserve contribution targets in order to have funding available for large, infrastructure partnership projects. Achieve net funding levels from local taxes.   |

|                                 |   |
|---------------------------------|---|
| ASSET:                          | Roads   |
| STATE OF THE INFRASTRUCTURE:    |   |
| Inventory -                     | High Class Bituminous: 147.77 lane kilometres. Low Class Bituminous: 43.55 lane kilometers. Granular: 198 kilometers. Widths: Varies.   |
| Replacement Cost -              | \$50,000,000  |
| Valuation -                     | \$20,000,000  |
| Asset Life Cycle -              | Estimated useful life: High Class Bituminous – 25 years, Low Class Bituminous – 25 years, Granular: indefinite with proper maintenance  |
| Asset Condition/Urgency -       | Appendix B  |
| REHAB & REPLACEMENT CRITERIA:   | Consideration will be given to historical life cycle, original construction/design, traffic counts, safety issues, drainage, repair costs, changes to technology, available land for optimal road widths, localized population growth, optimal timing, condition rating, economic development opportunities, available funding, etc.  |
| REHAB & REPLACEMENT STRATEGIES: | Optimal timing of maintenance and rehabilitation efforts is key to maximizing life expectancy of existing road system. Traffic counts are important in establishing road classifications for Minimum Maintenance Standards as well as determining the appropriate the appropriate road design when the road is rehabilitated or reconstructed. Paving of shoulders increases safety, esthetics and reduces loss of gravel. The Township’s Design Guidelines detail the right of way required. Substandard vertical and horizontal curves may be addressed, fully or in part, only when the road is reconstructed and possibly when rehabilitated. |
| LIFE CYCLE CONSEQUENCES:        | End of life risks: deterioration or failure of roadways, reduced overall system adequacy, increased repair and maintenance costs, health and safety concerns, may cause impacts to other local services (garbage collection, emergency services, etc.), travel disruptions and increased costs to area businesses and residents, missing optimal timing will result in increased reconstruction costs.  |
| INTEGRATED:                     | Activities are coordinate with the upper tier municipality, hydro, phone, natural gas, pipeline, cable, rail companies and local water and wastewater services.   |
| FINANCING STRATEGY:             | See Appendix C  |
| PERFORMANCE MEASURES:           | Establish benchmarks as part of the implementation of the asset management plan which can then be used as performance measures. Monitor and review rehabilitation and replacement strategies regularly to determine cost vs performance adjustments. Achieve reserve contribution targets in order to have  |

funding available for large, infrastructure partnership projects. Achieve net funding levels from local taxes.

|                                 |  |
|---------------------------------|--|
| ASSET:                          | Water and Wastewater Infrastructure  |
| STATE OF THE INFRASTRUCTURE:    |  |
| Inventory -                     | See Appendix E - Township of South Glengarry Infrastructure Capital Planning Study   |
| Replacement Cost -              | See Appendix E - Township of South Glengarry Infrastructure Capital Planning Study   |
| Valuation -                     | See Appendix E - Township of South Glengarry Infrastructure Capital Planning Study   |
| Asset Life Cycle -              | See Appendix E - Township of South Glengarry Infrastructure Capital Planning Study   |
| Asset Condition/Urgency -       |  |
| REHAB & REPLACEMENT CRITERIA:   | Consideration will be given to break history, infiltration, age of infrastructure, soil conditions, localized population growth, economic development, camera inspections, ratings, coordination with road construction, etc.  |
| REHAB & REPLACEMENT STRATEGIES: | Water line rehabilitation and replacement is based on the current condition of the pipe, break history, age, size, material. Rehabilitation and replacement may involve complete replacement, cleaning, slip lining and pipe bursting. Wastewater line rehabilitation and replacement is based on inspection and rating. Rehabilitation and replacement may involve complete replacement, cleaning, lining, spot repairs and joint sealing. Plant rehabilitation and replacement is based on operational requirements, deferred maintenance costs vs current replacement value, available funding. |
| LIFE CYCLE CONSEQUENCES:        | End of life risks: catastrophic failures at undetermined and unexpected times with impacts on lower tier, upper tier, provincial and private infrastructure, infiltration of groundwater into wastewater lines which can contribute to accumulation of debris and sediment at sags and increase treatment costs and hydraulic loads at the plant which result in increased costs, deterioration of building, health and safety, inefficient operations and higher operating costs, accelerated depreciation, etc.  |
| INTEGRATED:                     | Activities are coordinate with the upper tier municipality, hydro, phone, natural gas, pipeline, cable, rail companies and local water and wastewater services.  |
| FINANCING STRATEGY:             | See Appendix D   |
| PERFORMANCE MEASURES:           | Establish benchmarks as part of the implementation of the asset management plan which can then be used as performance measures. Monitor and review rehabilitation and replacement strategies regularly to determine cost vs performance adjustments. Achieve reserve contribution targets in order to have funding available for large, infrastructure partnership projects.   |





**30008 Rae Road**

Re-surfacing roadway 6~10 55 35

Install SBGR with end treatments 1~5

**30009 Rae Road**

Re-surfacing roadway 6~10 35

Install SBGR with end treatments 1~5 55

**30010 Glen Road**

Re-surfacing roadway 6~10 35

Install SBGR with end treatments 1~5 55

| No. | Description | Urgency (yrs) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|-------------|---------------|---|---|---|---|---|---|---|---|---|----|
|-----|-------------|---------------|---|---|---|---|---|---|---|---|---|----|

**30011 Cashion Road**

Pave and waterproofing on deck and approaches 1~5 75

|              |  |     |      |       |
|--------------|--|-----|------|-------|
|              | Structural Evaluation  |     |      |       |
|              | Environmental Assessment   | 1~5 |      | 15    |
|              | Installation of Thrie Beam across the structure with SBGR & appropriate end treatments | 1~5 |      | 4.5   |
|              |  | 1~5 |      | 115.5 |
| <b>30012</b> | <b>Glen Falloch Road</b>   |     |      |       |
|              | Replacement Design   | 1~5 | 27.5 |       |
|              | Construction and CA  | 1~5 | 365  |       |
| <b>30013</b> | <b>Nine Mile Road</b>  |     |      |       |
|              | Install SBGR with end treatments   | 1~5 |      | 55    |
| <b>30014</b> | <b>McGillivray Road</b>  |     |      |       |
|              | Install SBGR with end treatments   | 1~5 |      | 55    |
| <b>30015</b> | <b>Glenbrook Road</b>  |     |      |       |
|              | Extend existing SBGR and install appropriate end                                       | 1~5 |      | 40    |

treatments

**30016 Squire Road**

Replacement  
Design

6~10

27.5

Construction and  
CA

6~10

300

| No. | Description | Urgency<br>(yrs) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|-------------|------------------|---|---|---|---|---|---|---|---|---|----|
|-----|-------------|------------------|---|---|---|---|---|---|---|---|---|----|

**30018 Chapel Road**

Detailed deck  
condition survey

1~5

29

Rehabilitation  
design

1~5

20

Construction and  
CA

1~5

100

Install SBGR with

|              |  |      |    |      |
|--------------|--|------|----|------|
|              | end treatments                             | 1~5  | 55 |      |
| <b>30019</b> | <b>Glen Donald Road</b>                    |      |    |      |
|              | Concrete repair                            | 1~5  | 40 |      |
|              | Installation of appropriate end treatments | 1~5  | 25 |      |
| <b>30020</b> | <b>Spring Creek Road</b>                   |      |    |      |
|              | Replacement Design                         | 6~10 |    | 27.5 |
|              | Construction and CA                        | 6~10 |    | 250  |
| <b>30021</b> | <b>Airport Road</b>                        |      |    |      |
|              | Install SBGR with end treatments           | 1~5  | 55 |      |
| <b>30022</b> | <b>Kraft Road</b>                          | TBD  |    |      |
| <b>30023</b> | <b>Glen Roy Road</b>                       |      |    |      |
|              | Detailed deck condition survey             | 1~5  | 20 |      |
|              | Structure evaluation                       | 1~5  | 15 |      |
|              | Pave and                                   |      |    |      |

|  |                                      |     |    |
|--|--------------------------------------|-----|----|
|  | waterproofing on deck and approaches | 1~5 | 70 |
|--|--------------------------------------|-----|----|

**30024 Glen Roy Road**

|  |                 |     |    |
|--|-----------------|-----|----|
|  | Concrete repair | 1~5 | 25 |
|--|-----------------|-----|----|

|  |  |     |    |
|--|--|-----|----|
|  | Replace existing SBGR with Thrie Beam across the structure, install SBGR with appropriate end treatments | 1~5 | 90 |
|--|--|-----|----|

| No. | Description | Urgency (yrs) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|-------------|---------------|---|---|---|---|---|---|---|---|---|----|
|-----|-------------|---------------|---|---|---|---|---|---|---|---|---|----|

**30025 Loyalist Road**

|  |   |      |  |  |  |  |  |  |  |  |  |    |
|--|---|------|--|--|--|--|--|--|--|--|--|----|
|  | Detailed deck condition survey & coating condition survey | 6~10 |  |  |  |  |  |  |  |  |  | 20 |
|--|---|------|--|--|--|--|--|--|--|--|--|----|

|  |  |      |  |  |  |  |  |  |  |  |  |    |
|--|--|------|--|--|--|--|--|--|--|--|--|----|
|  | Upgrade non-standard end treatments and replace curve rail | 6~10 |  |  |  |  |  |  |  |  |  | 35 |
|--|--|------|--|--|--|--|--|--|--|--|--|----|

**30026 Frog Hollow Road**

|  |                                |     |  |      |  |  |  |  |  |  |  |  |
|--|--------------------------------|-----|--|------|--|--|--|--|--|--|--|--|
|  | Detailed deck condition survey | 1~5 |  | 26.5 |  |  |  |  |  |  |  |  |
|--|--------------------------------|-----|--|------|--|--|--|--|--|--|--|--|

|  |                      |     |  |    |  |  |  |  |  |  |  |  |
|--|----------------------|-----|--|----|--|--|--|--|--|--|--|--|
|  | Structure evaluation | 1~5 |  | 25 |  |  |  |  |  |  |  |  |
|--|----------------------|-----|--|----|--|--|--|--|--|--|--|--|

Pave and waterproofing on deck and approaches 1~5 110

Upgrade existing barrier to meet current standards 1~5 330

Install appropriate end treatments 1~5 25

**30027 Cedar Grove Road**

Minor rehabilitation 6~10 30

Installation of SBGR with end treatments 1~5 55

**30028 Fallowfield Road**

Replacement design 1~5 26.5

Construction and CA 1~5 200

**30030 Concession Road 2**

Major



**30035 First Line Road**

Replacement design 1~5 27.5

Construction and CA 1~5 300

**30036 First Line Road**

Replacement design 6~10 27.5

Construction and CA 6~10 200

**30037 First Line Road**

Replacement design 1~5 27.5

Construction and CA 1~5 185

**30039 South Service Road**

Major Rehabilitation 6~10 40

**30041 Roy's Road**

Install SBGR with end treatments 1~5 55





Repair expansion joints      1~5      16.5

Extend existing SBGR & install proper end treatments      1~5      40

**30046 Roy's Road**

Install SBGR with end treatments      1~5      55

**30047 Roy's Road**

Major Rehabilitation      6~10      40

Installation of SBGR with appropriate end treatments      1~5      55

**30049 Concession Road 4**

Install SBGR with end treatments      1~5      55

| No. | Description | Urgency (yrs) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|-------------|---------------|---|---|---|---|---|---|---|---|---|----|
|-----|-------------|---------------|---|---|---|---|---|---|---|---|---|----|

**30050 Butternut Lane**

Structural Evaluation      1~5      20

|              |   |     |     |
|--------------|---|-----|-----|
|              | Environmental Assessment                                  | 1~5 | 8   |
|              | Options Study   | 1~5 | 20  |
| <b>30051</b> | <b>Third Line Road</b>                                    |     |     |
|              | Structural Evaluation                                     | 1~5 | 20  |
|              | Concrete overlay and waterproofing                        |     | 380 |
|              | Replace expansion joint seals                             | 1~5 | 10  |
|              | Extend existing SBGR & install appropriate end treatments | 1~5 | 40  |
| <b>30052</b> | <b>Roy's Road</b>   |     |     |
|              | Concrete Repairs to ends of culvert                       | 1~5 | 65  |
|              | Install SBGR with end treatments                          | 1~5 | 55  |
| <b>30053</b> | <b>Third Line Road</b>                                    |     |     |



|              |  |      |    |    |
|--------------|--|------|----|----|
|              | current standards  |      | 65 |    |
|              | Repair and extend existing SBGR & install appropriate end treatments | 1~5  | 30 |    |
| <b>30055</b> | <b>Third Line Road</b>   |      |    |    |
|              | Install SBGR with end treatments                                     | 1~5  | 55 |    |
| <b>30056</b> | <b>South Service Road</b>  |      |    |    |
|              | Re-coat structural steel   | 6~10 |    | 70 |
| <b>30057</b> | <b>Concession Road 7</b>   |      |    |    |
|              | Detailed deck condition survey                                       | 1~5  | 25 |    |
|              | Structural Evaluation  | 1~5  | 16 |    |
| <b>30058</b> | <b>North Service Road</b>  |      |    |    |
|              | Install SBGR with end treatments                                     | 1~5  | 55 |    |
| <b>30059</b> | <b>North Service Road</b>  |      |    |    |
|              | Detailed deck  |      |    |    |

condition survey 1~5 15.8

Upgrade existing barrier to meet current standards 1~5 35

Install SBGR with end treatments 55

1~5

**30060 Concession Road 2**

Install SBGR with end treatments 1~5 55

| No. | Description | Urgency (yrs) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|-------------|---------------|---|---|---|---|---|---|---|---|---|----|
|-----|-------------|---------------|---|---|---|---|---|---|---|---|---|----|

**30061 Concession Road 3**

Install SBGR with end treatments 1~5 55

**30063 Loyalist Road**

Install SBGR with end treatments 1~5 55

**Enhanced OSIM** 80 80

**OSIM Inspection** 4.5 26 4.5 32 4.5 26 4.5 32 4.1 26

**Appendix B-1**

| No.    | STREET          | FROM                 | TO                         | Km   | ROADSIDE ENVIRONMENT | CLASS | CONDITION RATING | BOUNDARY ROAD | SURFACE TYPE |
|--------|-----------------|----------------------|----------------------------|------|----------------------|-------|------------------|---------------|--------------|
| 100100 | Kenyon Rd       | Angel Road           | Chapel Rd                  | 6.50 | R                    | 4     | 8                | YES           | GRAVEL       |
| 100700 | Kenyon Conc 1   | Kenyon Conc 1        | 0.7 km North               | 0.70 | R                    | 4     | 5                | YES           | LCB          |
| 100900 | Kenyon Conc 1   | Loch Garry Rd        | 0.9km E of Loch Garry Rd   | 0.90 | R                    | 4     | 5                | YES           | LCB          |
| 101100 | Pineridge Rd    | S Stormont Bndy      | Cty Rd 20                  | 3.00 | R                    | 4     | 6                | YES           | GRAVEL       |
| 101700 | Squire Rd       | Cty Rd 25            | Kenyon Rd                  | 2.10 | R                    | 4     | 6                | NO            | GRAVEL       |
| 102100 | Connertown Rd   | Lot 27               | Chapel Rd                  | 1.00 | R                    | 6     | 6                | NO            | GRAVEL       |
| 102300 | Chapel Rd       | Cty Rd 25            | Kenyon Rd                  | 2.10 | R                    | 4     | 6                | NO            | GRAVEL       |
| 102500 | Robertson Rd    | N Branch Rd          | Pineridge Rd               | 3.20 | R                    | 4     | 7                | NO            | GRAVEL       |
| 102900 | Richer Rd       | Robertson Rd         | Cty Rd 20                  | 2.10 | R                    | 4     | 6                | NO            | GRAVEL       |
| 103100 | Squire Rd       | Cty Rd 25            | Southerly                  | 0.60 | R                    | 6     | 6                | NO            | GRAVEL       |
| 103300 | Munroes Mill Rd | Cty Rd 25            | Chapel Rd                  | 1.80 | R                    | 4     | 6                | NO            | GRAVEL       |
| 103700 | Chapel Rd       | Cty Rd 18            | 2.3km S of Cty Rd 25       | 3.10 | R                    | 4     | 7                | NO            | HCB          |
| 103701 | Chapel Rd       | 3.1km N of Cty Rd 18 | Cty Rd 25                  | 2.30 | R                    | 4     | 10               | NO            | HCB          |
| 104700 | Neville Rd      | Chapel Rd            | Lot 29/30                  | 2.00 | R                    | 4     | 6                | NO            | GRAVEL       |
| 104900 | Island Rd       | Cemetery Rd          | S Stormont Bndy            | 1.00 | R                    | 4     | 6                | NO            | GRAVEL       |
| 105100 | Cemetery Rd     | Cty Rd 18            | Nh Branch Rd               | 1.10 | R                    | 4     | 7                | NO            | GRAVEL       |
| 105500 | North Branch Rd | Cty Rd 20            | S Stormont Bndy            | 3.00 | R                    | 4     | 7                | NO            | GRAVEL       |
| 105900 | Beaver Brook Rd | Cty Rd 20            | Chapel Rd                  | 4.30 | R                    | 4     | 6                | NO            | GRAVEL       |
| 106100 | Woodland Rd     | Beaver Brook Rd      | Northerly                  | 0.30 | R                    | 6     | 5                | NO            | GRAVEL       |
| 106400 | Desjardin St    | Cty Rd 18            | Andre St                   | 0.10 | S                    | 5     | 5                | NO            | HCB          |
| 106600 | Juliette St     | Cty Rd 18            | Andre St                   | 0.10 | S                    | 5     | 5                | NO            | HCB          |
| 106800 | Andre St        | Desjardin St         | Juliette St                | 0.20 | S                    | 5     | 4                | NO            | HCB          |
| 106900 | Nine Mile Rd    | Cty Rd 18            | McCaw St.                  | 0.10 | S                    | 5     | 5                | NO            | HCB          |
| 106901 | Nine Mile Rd    | McCaw St             | Raisin River               | 0.10 | S                    | 5     | 5                | NO            | GRAVEL       |
| 107100 | McCaw St        | Nine Mile Rd         | Water St                   | 0.20 | S                    | 5     | 7                | NO            | HCB          |
| 107300 | Andrew St       | McCaw St             | Cty Rd 18                  | 0.20 | S                    | 5     | 7                | NO            | HCB          |
| 107700 | Bums Church St  | Cty Rd 20            | Cty Rd 18                  | 0.20 | S                    | 5     | 7                | NO            | HCB          |
| 107900 | McMartin St     | Cty Rd 18            | Southerly                  | 0.20 | S                    | 5     | 8                | NO            | HCB          |
| 108100 | River Rd        | Cty Rd 18            | Kirk St                    | 0.40 | S                    | 5     | 7                | NO            | HCB          |
| 108300 | Andrew St       | Cty Rd 18            | River Rd                   | 0.20 | S                    | 5     | 7                | NO            | HCB          |
| 108700 | Grant St        | Cty Rd 18            | Kirk St                    | 0.20 | S                    | 5     | 7                | NO            | HCB          |
| 109100 | Kirk St         | Nine Mile Rd         | MacGillivray Rd            | 0.30 | S                    | 5     | 7                | NO            | HCB          |
| 109300 | Nine Mile Rd    | Cty Rd 18            | Southerly                  | 0.30 | S                    | 5     | 4                | NO            | HCB          |
| 110100 | Glen Falloch Rd | S Stormont Bndy      | Nine Mile Rd               | 3.50 | R                    | 4     | 7                | NO            | GRAVEL       |
| 110400 | Nine Mile Rd    | Cty Rd 19            | North to Martintown Limits | 5.70 | R                    | 4     | 4                | NO            | HCB          |
| 110900 | MacGillivray Rd | Martintown           | Cty Rd 27                  | 5.80 | R                    | 4     | 7                | NO            | GRAVEL       |
| 111300 | Rosebush Dr     | Cty Rd 18            | Northerly                  | 0.20 | R                    | 6     | 6                | NO            | GRAVEL       |
| 111500 | Pine Stone Rd   | Cty Rd 19            | Cul-de-Sac                 | 0.70 | S                    | 5     | 6                | NO            | HCB          |
| 111700 | Grandview Cres  | Cty Rd 19            | Pinestone Dr               | 0.40 | S                    | 5     | 7                | NO            | HCB          |
| 111900 | Grandview Ct    | Grandview Cres       | Northerly                  | 0.05 | S                    | 6     | 7                | NO            | HCB          |
| 200100 | Kenyon Conc 1   | Lot 24/25            | Cty Rd 34                  | 9.90 | R                    | 4     | 5                | NO            | LCB          |
| 200200 | MacDonald Rd    | Valley View Road     | Dead End                   | 0.10 | R                    | 6     | 6                | NO            | GRAVEL       |
| 200600 | Valley View Rd  | Kenyon Conc 1        | Dead End                   | 0.60 | R                    | 6     | 5                | NO            | GRAVEL       |
| 201300 | Kennedy Rd      | 0.7km N of Cty Rd 25 | 0.7 km N of Cty Rd 25      | 1.40 | R                    | 6     | 6                | NO            | GRAVEL       |
| 201500 | Glen Roy Rd     | Cty Rd 25            | Kenyon Rd                  | 2.10 | R                    | 4     | 6.5              | NO            | LCB          |
| 201900 | Luc St          | Cty Rd 34            | Delia St                   | 0.10 | S                    | 5     | 6                | NO            | HCB          |
| 202100 | Delia St        | Luc St               | North & South              | 0.20 | S                    | 5     | 6                | NO            | HCB          |
| 202101 | Roy Cres        | Dead End             | Dead End                   | 0.10 | S                    | 5     | 7                | NO            | HCB          |
| 202300 | Station Rd      | Cty Rd 34            | Westerly                   | 0.20 | S                    | 5     | 6                | NO            | GRAVEL       |
| 202500 | Menard Rd       | Cty Rd 34            | MacKinnon St               | 0.20 | S                    | 5     | 6                | NO            | HCB          |
| 202700 | MacKinnon St    | Menard St            | Southerly                  | 0.20 | S                    | 5     | 7                | NO            | HCB          |
| 202900 | Third St        | Cty Rd 34            | Charlotte St               | 0.20 | S                    | 5     | 6                | NO            | HCB          |
| 203100 | Charlotte St    | Third St             | Southerly                  | 0.20 | S                    | 5     | 6                | NO            | HCB          |
| 203300 | Park Cres       | Cty Rd 34            | Charlotte St               | 0.20 | S                    | 5     | 6                | NO            | HCB          |
| 204100 | Caber Rd        | Chapel Rd            | Glen Roy Rd                | 5.10 | R                    | 6     | 6                | NO            | GRAVEL       |
| 204700 | Glen Roy Rd     | Cty Rd 18            | Cty Rd 25                  | 4.70 | R                    | 4     | 4                | NO            | HCB          |
| 205500 | Cuthbert Rd     | Glen Roy Rd          | Easterly                   | 0.30 | R                    | 6     | 6                | NO            | GRAVEL       |
| 205700 | Emberg Rd       | Glen Roy Rd          | Westerly                   | 0.20 | R                    | 6     | 6                | NO            | GRAVEL       |
| 205900 | Beaupre Rd      | Frogghollow Rd       | Westerly                   | 0.60 | R                    | 4     | 6                | NO            | GRAVEL       |
| 206100 | Frogghollow Rd  | Cty Rd 18            | Cty Rd 25                  | 3.70 | R                    | 4     | 6                | NO            | GRAVEL       |
| 206500 | Beaupre Rd      | Frogghollow Rd       | Cty Rd 34                  | 2.60 | R                    | 4     | 6                | NO            | GRAVEL       |
| 206700 | Beaver Brook Rd | Chapel Rd            | Lot 41/42                  | 1.20 | R                    | 4     | 6                | NO            | HCB          |
| 206800 | Regent Dr       | Beaver Brook Rd      | Landfill Site              | 0.80 | R                    | 5     | 5                | NO            | GRAVEL       |
| 206900 | Beaver Brook Rd | Cty Rd 18            | Lot 41/42                  | 1.90 | R                    | 4     | 7                | NO            | GRAVEL       |
| 207100 | Clover Dale Rd  | Cty Rd 19            | Westerly                   | 0.10 | R                    | 6     | 7                | NO            | GRAVEL       |
| 207300 | Doonan Rd       | Cty Rd 19            | McLeod Rd                  | 1.00 | R                    | 6     | 5                | NO            | GRAVEL       |
| 207500 | McLeod Rd       | Doonan Rd            | Cty Rd 18                  | 0.40 | R                    | 6     | 6                | NO            | GRAVEL       |
| 207700 | Maple Rd        | Cty Rd 19            | 1.0km W of Cty Rd 34       | 4.10 | R                    | 4     | 6                | NO            | GRAVEL       |
| 207701 | Maple Rd        | 4.1km E of Cty Rd 19 | Cty Rd 34                  | 1.00 | R                    | 4     | 5                | NO            | LCB          |

Appendix B-2

|        |                    |                         |                       |      |   |   |   |    |        |
|--------|--------------------|-------------------------|-----------------------|------|---|---|---|----|--------|
| 309300 | Lalonde Blvd       | Jason St                | Dead End              | 0.30 | S | 6 | 7 | NO | HCB    |
| 309400 | Warring Rd         | Cty Rd 27               | Cul-de-Sac            | 0.10 | S | 6 | 7 | NO | HCB    |
| 310100 | Gilmour Hill Rd    | Cty Rd 2                | Elm St                | 0.40 | S | 5 | 8 | NO | HCB    |
| 310200 | Sutherland Ave     | Gilmour Hill Rd         | Dead End              | 1.10 | S | 5 | 8 | NO | HCB    |
| 310500 | Elm Ave            | Gilmour Hill Rd         | Sutherland Dr         | 0.10 | S | 5 | 8 | NO | HCB    |
| 310700 | Kilkenny Cres      | Cty Rd 2                | 310701                | 0.30 | S | 5 | 7 | NO | HCB    |
| 310701 | Kilkenny Cres      | 310700                  | 310702                | 0.10 | S | 5 | 6 | NO | HCB    |
| 310702 | Kilkenny Cres      | 310701                  | 310800                | 0.05 | S | 5 | 7 | NO | GRAVEL |
| 310800 | Kilkenny Cres      | Bay Street              | Dead End              | 0.30 | S | 5 | 7 | NO | GRAVEL |
| 310900 | Lawrence St        | 0.1km E of Kilkenny St  | Kilkenny St           | 0.60 | S | 5 | 5 | NO | HCB    |
| 311000 | Kilkenny Cres      | Bay St                  | St Lawrence St        | 0.10 | S | 5 | 3 | NO | HCB    |
| 311100 | Yatch Boulevard    | Cty Rd 22               | Cul-de-Sac            | 0.50 | S | 6 | 5 | NO | HCB    |
| 311200 | Galleon Crescent   | Yatch Boulevard         | Cul-De-Sac            | 0.10 | S | 6 | 6 | NO | HCB    |
| 311300 | Bray St            | Purcell Rd              | Lawrence St. W.       | 0.40 | S | 5 | 7 | NO | HCB    |
| 311500 | Page Dr            | Cty Rd 2                | Northerly             | 0.50 | S | 5 | 5 | NO | HCB    |
| 311700 | Sabourin Dr        | Cty Rd 2                | Northerly             | 0.20 | S | 5 | 4 | NO | HCB    |
| 311900 | Anderson Dr        | Sabourin Dr             | Westerly              | 0.10 | S | 6 | 5 | NO | HCB    |
| 312000 | Stone House Pt Rd  | Cty Rd 2                | Southeasterly         | 0.55 | S | 6 | 6 | NO | HCB    |
| 312001 | Prevost Pt Rd      | Cty Rd 2                | Dead End              | 0.10 | S | 6 | 4 | NO | HCB    |
| 312100 | Boisvenue Dr       | Cty Rd 2                | Northerly             | 0.30 | S | 5 | 5 | NO | HCB    |
| 312300 | Alice St           | Boisvenue Dr            | Easterly              | 0.10 | S | 6 | 5 | NO | HCB    |
| 313100 | Orchard Rd         | Cty Rd 2                | Northerly             | 0.20 | R | 6 | 4 | NO | HCB    |
| 313500 | Purcell Rd         | Cty Rd 2                | 1.7km S of Tyotown    | 0.80 | R | 4 | 6 | NO | HCB    |
| 313501 | Purcell Rd         | 0.8km N of Cty Rd 2     | 0.8km S of Tyotown    | 0.90 | R | 4 | 5 | NO | HCB    |
| 313502 | Purcell Rd         | 1.7km N of Cty Rd 2     | Tyotown               | 0.80 | R | 4 | 7 | NO | HCB    |
| 314100 | Purcell Rd         | Tyotown Rd              | Cul-de-sac            | 1.10 | R | 4 | 4 | NO | HCB    |
| 315100 | Laura Ave          | Purcell Rd              | Easterly              | 0.10 | S | 5 | 7 | NO | HCB    |
| 315300 | Clifford St        | Laura Ave               | Marlene Ave           | 0.50 | S | 5 | 5 | NO | HCB    |
| 315500 | Marlene Ave        | Samuel Dr               | Laura Ave             | 0.40 | S | 5 | 7 | NO | HCB    |
| 315700 | Samuel Dr          | Purcell Rd              | 315702                | 0.20 | S | 5 | 6 | NO | HCB    |
| 315701 | Adrian Ct          | Samuel Dr               | Dead End              | 0.70 | S | 5 | 7 | NO | HCB    |
| 315702 | Samuel Dr          | 315700                  | Sapphire Dr           | 0.30 | S | 5 | 8 | NO | HCB    |
| 315703 | Samuel Dr          | 315702                  | Dead End              | 0.30 | S | 5 | 8 | NO | HCB    |
| 315704 | Sapphire Dr        | Samuel Dr East          | Dead End              | 0.30 | S | 5 | 7 | NO | HCB    |
| 315705 | Sapphire Dr        | Samuel Dr West          | Dead End              | 0.30 | S | 5 | 9 | NO | HCB    |
| 315900 | Wendy St           | Samuel Dr               | Wine Cres             | 0.70 | S | 5 | 5 | NO | HCB    |
| 315901 | Laurette St        | Samuel Dr               | Dead End              | 0.20 | S | 5 | 8 | NO | HCB    |
| 316300 | Wine Cres          | Wendy St                | Wendy St              | 0.50 | S | 5 | 4 | NO | HCB    |
| 316500 | Vivian Circle      | Wendy St                | Wendy St              | 0.50 | S | 5 | 3 | NO | HCB    |
| 316700 | Randy St           | Purcell Rd              | Wendy St              | 0.40 | S | 5 | 4 | NO | HCB    |
| 400300 | William St         | CPR                     | Cty Rd 19             | 0.70 | S | 5 | 4 | NO | HCB    |
| 400500 | William St         | Cty Rd 19               | Easterly              | 0.10 | S | 5 | 4 | NO | HCB    |
| 400700 | St. Mary St        | William St              | 0.1km NW of Cty Rd 19 | 0.20 | S | 5 | 5 | NO | GRAVEL |
| 400701 | St. Mary St        | 0.1km NW of Cty Rd 19   | Cty Rd 19             | 0.10 | S | 5 | 6 | NO | HCB    |
| 400900 | Church Ave         | Cty Rd 17               | Cty Rd 19             | 0.30 | S | 5 | 4 | NO | HCB    |
| 401100 | Wellington St      | Church St               | Easterly              | 0.10 | S | 6 | 6 | NO | GRAVEL |
| 401300 | Warren St          | 401900                  | Bridge St             | 0.30 | S | 5 | 5 | NO | HCB    |
| 401301 | Warren St          | Bridge St               | Church St             | 0.20 | S | 5 | 4 | NO | HCB    |
| 401700 | Middle St          | Cty Rd 17               | Warren St             | 0.10 | S | 5 | 6 | NO | HCB    |
| 401900 | Warren St          | Cty Rd 17               | 401300                | 0.10 | S | 5 | 5 | NO | HCB    |
| 402100 | Fairview Rd        | Cty Rd 17               | CPR                   | 0.30 | S | 6 | 6 | NO | GRAVEL |
| 403100 | Greer Rd           | Cty Rd 17               | Easterly              | 0.50 | R | 6 | 6 | NO | GRAVEL |
| 403300 | Arlington Rd       | Cty Rd 34               | Lot 59/60             | 1.00 | R | 6 | 6 | NO | GRAVEL |
| 403900 | Leitch Rd          | Cty Rd 27               | Dead End              | 1.40 | R | 4 | 6 | NO | GRAVEL |
| 404100 | Glen Rd            | Cty Rd 27               | Kraft Rd              | 3.50 | R | 4 | 8 | NO | HCB    |
| 404500 | Spring Creek Rd    | Glen Rd                 | Southerly             | 0.30 | R | 6 | 6 | NO | GRAVEL |
| 404501 | Spring Creek Rd    | Gore Rd                 | Northerly             | 0.40 | R | 6 | 6 | NO | GRAVEL |
| 404700 | Gore Rd            | Cty Rd 27               | Kraft Rd              | 3.50 | R | 4 | 6 | NO | GRAVEL |
| 405100 | Sand Rd & Short Rd | Cty Rd 27               | Cty Rd 27             | 0.40 | S | 5 | 4 | NO | GRAVEL |
| 405500 | Hay Rd             | Cty Rd 27               | Westerly              | 0.10 | S | 5 | 4 | NO | GRAVEL |
| 405700 | Hay Rd             | Cty Rd 27               | Midway Rd             | 0.90 | R | 4 | 8 | NO | HCB    |
| 405800 | Midway Rd          | Hay Rd                  | CNR                   | 0.10 | S | 4 | 5 | NO | HCB    |
| 405900 | Hay Rd             | Midway Rd               | Dead End              | 1.30 | R | 6 | 7 | NO | GRAVEL |
| 406100 | Lapierre Rd        | Fraser Rd               | Lot 6                 | 2.10 | R | 4 | 6 | NO | GRAVEL |
| 406300 | Diversion Rd       | Fraser Rd               | Kraft Rd              | 1.00 | R | 4 | 6 | NO | GRAVEL |
| 406500 | Kraft Rd           | Diversion Rd            | 0.3km S of Glen Rd    | 2.60 | R | 4 | 7 | NO | GRAVEL |
| 406501 | Kraft Rd           | 2.6km N of Diversion Rd | Glen Rd               | 0.30 | R | 4 | 6 | NO | HCB    |
| 406900 | Kraft Rd           | Glen Donald Rd          | Cty Rd 19             | 0.70 | R | 4 | 6 | NO | HCB    |
| 407100 | Loyalist Rd        | Kraft Rd                | 2.7km E of Kraft Rd   | 2.70 | R | 4 | 8 | NO | LCB    |
| 407101 | Loyalist Rd        | 2.7km E of Kraft Rd     | Cul-De-Sac            | 1.60 | R | 4 | 4 | NO | LCB    |
| 407700 | Celtic Lane        | Village Boundary        | CNR                   | 1.10 | R | 4 | 5 | NO | GRAVEL |
| 407800 | Wentworth Rd       | Cty Rd 17               | CNR                   | 0.60 | R | 6 | 6 | NO | GRAVEL |

### Appendix B-3



|        |                 |                          |                          |      |   |  |   |     |    |        |
|--------|-----------------|--------------------------|--------------------------|------|---|--|---|-----|----|--------|
| 501300 | Conc 2          | Cty Rd 26                | First Line Rd            | 2.70 | R |  | 4 | 6   | NO | LCB    |
| 501400 | Conc 2          | First Line Rd            | Cty Rd 34                | 2.20 | R |  | 4 | 6   | NO | LCB    |
| 501500 | Dubeau Rd       | Cty Rd 26                | Dead End                 | 1.10 | R |  | 6 | 6   | NO | GRAVEL |
| 501600 | Roys Rd         | Cty Rd 26                | Third Line Rd            | 3.50 | R |  | 4 | 7   | NO | GRAVEL |
| 501700 | Conc 3          | Cty Rd 23                | Quebec Border            | 2.40 | R |  | 4 | 6   | NO | LCB    |
| 501800 | Concession 3    | County Road 23           | County Road 26           | 6.90 | R |  | 4 | 7   | NO | GRAVEL |
| 501900 | Conc 3          | First Line Rd            | Dead End                 | 0.25 | R |  | 6 | 6   | NO | GRAVEL |
| 502000 | Conc 3          | First Line Rd            | Cty Rd 34                | 2.10 | R |  | 4 | 7   | NO | LCB    |
| 502100 | Conc 4          | Cty Rd 34                | Bordeau Rd               | 2.80 | R |  | 4 | 9   | NO | LCB    |
| 502200 | Conc 4          | First Line Rd            | Third Line Rd            | 5.70 | R |  | 4 | 7   | NO | LCB    |
| 502300 | Conc 4          | Third Line Rd            | Quebec Border            | 3.60 | R |  | 4 | 6   | NO | GRAVEL |
| 502400 | Bordeau Rd      | Conc 4                   | Conc 4                   | 1.40 | R |  | 4 | 6   | NO | GRAVEL |
| 502500 | First Line Rd   | Conc 2                   | Conc 2                   | 1.85 | R |  | 4 | 6   | NO | GRAVEL |
| 502600 | First Line Rd   | Conc 3                   | Conc 4                   | 1.20 | R |  | 4 | 7   | NO | LCB    |
| 502700 | Third Line Rd   | South Service Rd         | Conc 4                   | 6.00 | R |  | 4 | 4   | NO | LCB    |
| 502800 | Third Line Rd   | Conc 4                   | Cty Rd 18                | 5.10 | R |  | 4 | 6   | NO | GRAVEL |
| 502900 | Third Line Rd   | Cty Rd 18                | Conc 8                   | 5.00 | R |  | 4 | 7   | NO | LCB    |
| 502901 | Third Line Rd   | Conc 8                   | Cty Rd 25                | 1.60 | R |  | 4 | 5   | NO | LCB    |
| 502902 | Derouche Rd     | 3rd Line Rd              | Dead End                 | 0.10 | R |  | 6 | 3   | NO | GRAVEL |
| 503000 | Third Line Rd   | Cty Rd 25                | Conc 10                  | 2.10 | R |  | 4 | 6   | NO | GRAVEL |
| 503100 | Second Line Rd  | Cty Rd 18                | Cty Rd 25                | 6.60 | R |  | 4 | 7   | NO | LCB    |
| 503200 | Second Line Rd  | Cty Rd 25                | Conc 10                  | 2.10 | R |  | 4 | 7   | NO | GRAVEL |
| 503300 | First Line Rd   | Cty Rd 18                | Dead End                 | 1.70 | R |  | 6 | 6   | NO | GRAVEL |
| 503400 | First Line Rd   | Cty Rd 18                | Beaudette River          | 3.20 | R |  | 4 | 7   | NO | GRAVEL |
| 503500 | First Line Rd   | Beaudette River          | Conc 8                   | 1.20 | R |  | 4 | 7   | NO | LCB    |
| 503600 | First Line Rd   | Conc 8                   | Cty Rd 25                | 1.70 | R |  | 4 | 6   | NO | GRAVEL |
| 503700 | First Line Rd   | Cty Rd 25                | Dead End                 | 0.65 | R |  | 6 | 6   | NO | GRAVEL |
| 503701 | Deguirre Rd     | Cty Rd 25                | Dead End                 | 0.30 | R |  | 6 | 8   | NO | LCB    |
| 503702 | Patricia Road   | Cty Rd 25                | Cty Rd 25                | 0.80 | R |  | 6 | 7   | NO | LCB    |
| 503800 | Little Fifth    | Cty Rd 34                | Cty Rd 18                | 2.60 | R |  | 4 | 6   | NO | GRAVEL |
| 503900 | Conc 6          | Second Line Rd           | Cty Rd 23                | 5.70 | R |  | 4 | 7   | NO | GRAVEL |
| 503901 | St. Anne St     | Cty Rd 23                | Dead End                 | 0.20 |   |  |   | 6   |    | GRAVEL |
| 504000 | Conc 7          | Cty Rd 34                | 1.2km E of First Line Rd | 2.00 | R |  | 4 | 4   | NO | LCB    |
| 504001 | Conc 7          | 2.0km W of Cty Rd 34     | First Line Rd            | 1.20 | R |  | 4 | 8   | NO | LCB    |
| 504100 | Conc 7          | First Line Rd            | 5.1km W of Third Line Rd | 0.80 | R |  | 4 | 5   | NO | LCB    |
| 504101 | Conc 7          | 0.8km E of First Line Rd | Third Line Rd            | 5.10 | R |  | 4 | 7   | NO | GRAVEL |
| 504200 | Conc 7          | Third Line Rd            | Quebec Border            | 2.60 | R |  | 4 | 6   | NO | LCB    |
| 504300 | Conc 8          | Cty Rd 34                | First Line Rd            | 3.10 | R |  | 4 | 7   | NO | LCB    |
| 504400 | Conc 8          | First Line Rd            | Second Line Rd           | 2.80 | R |  | 4 | 6   | NO | GRAVEL |
| 504500 | Conc 8          | Second Line Rd           | Third Line Rd            | 2.70 | R |  | 4 | 6   | NO | GRAVEL |
| 504600 | Conc 8          | Third Line Rd            | Quebec Border            | 2.30 | R |  | 4 | 6.5 | NO | LCB    |
| 504700 | Conc 10         | Second Line Rd           | N Glengary Rd            | 8.90 | R |  | 4 | 6   | NO | GRAVEL |
| 504800 | Conc 9          | Cty Rd 23                | Beauchamps Dr            | 0.60 | R |  | 4 | 8   | NO | LCB    |
| 504900 | Morrison Rd     | Cty Rd 23                | Quebec Border            | 0.45 | R |  | 4 | 7   | NO | GRAVEL |
| 505000 | Bathurst Rd     | Cty Rd 23                | Dead End                 | 0.10 | S |  | 5 | 6   | NO | GRAVEL |
| 505100 | Round Church Rd | Cty Rd 23                | Dead End                 | 0.30 | R |  | 4 | 7   | NO | GRAVEL |
| 505200 | Butternut Lane  | Third Line               | Dead End                 | 0.70 | S |  | 6 | 8   | NO | LCB    |
| 505300 | First Line Rd   | Conc 2                   | Dead End                 | 0.20 | R |  | 4 | 6   | NO | GRAVEL |
| 505400 | First Line Rd   | Conc 4                   | Conc 4                   | 0.35 | R |  | 4 | 9   | NO | LCB    |
| 505500 | First Line Rd   | Conc 8                   | Conc 8                   | 0.60 | R |  | 4 | 6   | NO | GRAVEL |
| 600100 | Pineview        | Cty Rd 34                | Dead End                 | 0.10 | S |  | 6 | 4   | NO | LCB    |
| 600200 | Gabrielle       | Cty Rd 34                | Lelebures                | 0.10 | S |  | 6 | 7   | NO | LCB    |
| 600300 | Lefebvre        | Gabrielle S Limits       | East and West            | 0.20 | S |  | 6 | 7   | NO | LCB    |
| 600400 | First St        | Cty Rd 34                | Lancaster St             | 0.18 | S |  | 5 | 5   | NO | LCB    |
| 600500 | Second St       | Cty Rd 34                | Lancaster St             | 0.10 | S |  | 5 | 5   | NO | LCB    |
| 600600 | Third St        | Cty Rd 34                | Lancaster St             | 0.10 | S |  | 5 | 5   | NO | LCB    |
| 600700 | Lancaster St    | Conc 8                   | First St                 | 0.70 | S |  | 5 | 5   | NO | LCB    |
| 601000 | Beauchamps Dr   | Conc 9                   | Quebec Border            | 1.80 | S |  | 5 | 7   | NO | LCB    |
| 601100 | Bernard Dr      | Beauchamps Dr            | Dead End                 | 0.20 | S |  | 6 | 7   | NO | GRAVEL |
| 601200 | Lakeside Dr     | Parkhill Circle          | Beauchamps Dr            | 1.00 | S |  | 5 | 7   | NO | GRAVEL |
| 601300 | Parkhill Circle | Lakeview Dr              | Lakeview Dr              | 1.10 | S |  | 5 | 7   | NO | GRAVEL |
| 601400 | Sandy Hill Dr   | Lakeview Dr              | Beauchamps Dr            | 0.50 | S |  | 6 | 7   | NO | GRAVEL |
| 602000 | Park Dr         | Third Line Rd            | Dead End                 | 0.15 | S |  | 6 | 7   | NO | LCB    |
| 602100 | MacCuaig        | Third Line Rd            | Jared St                 | 0.10 | S |  | 6 | 8   | NO | LCB    |
| 602101 | MacCuaig        | Jared St                 | Florence St              | 0.20 | S |  | 6 | 6   | NO | GRAVEL |
| 602102 | Florence St.    | MacCuaig Dr.             | Foxwell Dr               | 0.20 | S |  | 6 | 6   | NO | GRAVEL |
| 602200 | Jared St        | MacCuaig Dr              | Dead End                 | 0.04 | S |  | 6 | 8   | NO | LCB    |
| 602300 | MacGregor Dr    | Third Line Rd            | MacBain Rd               | 0.15 | S |  | 6 | 8   | NO | LCB    |
| 602301 | MacGregor Dr    | MacBain Rd               | Florence St              | 0.15 | S |  | 6 | 7   | NO | GRAVEL |
| 602400 | MacBain St      | MacGregor Dr             | Foxwell Dr               | 0.20 | S |  | 6 | 8   | NO | LCB    |
| 602500 | Foxwell Dr      | 3rd Line Rd              | MacBain Rd               | 0.15 | S |  | 6 | 7   | NO | LCB    |
| 602501 | Foxwell Dr      | MacBain                  | Florence                 | 0.15 | S |  | 6 | 7   | NO | GRAVEL |

## Appendix C

|                          |         | 2014             | 2015             | 2016             | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             | 2023             |
|--------------------------|---------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>ROAD EXPENSES</b>     |         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Roads                    |         | 800,000          | 816,000          | 832,320          | 2,122,416        | 2,164,864        | 2,208,162        | 2,252,325        | 918,949          | 937,328          | 956,074          |
| <b>BRIDGE EXPENSES</b>   |         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Bridges & Structures     |         | 908,208          | 1,023,233        | 970,899          | 897,120          | 861,735          | 326,362          | 331,281          | 340,367          | 250,133          | 116,048          |
| <b>RESERVE EXPENSES</b>  |         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Contribution to Reserve  |         | 160,000          | 163,200          | 166,464          | 169,793          | 173,189          | 176,653          | 180,186          | 183,790          | 187,466          | 191,215          |
| <b>TOTAL EXPENSES</b>    |         | <b>1,868,208</b> | <b>2,002,433</b> | <b>1,969,683</b> | <b>3,189,329</b> | <b>3,199,789</b> | <b>2,711,176</b> | <b>2,763,792</b> | <b>1,443,105</b> | <b>1,374,926</b> | <b>1,263,337</b> |
| <b>REVENUES</b>          |         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Other                    |         | -                | -                | -                | -                | -                | -                | -                | -                | -                | -                |
| Provincial Gas Tax/Other |         | 400,000          | 408,000          | 416,160          | 424,483          | 432,973          | 441,632          | 450,465          | 459,474          | 468,664          | 478,037          |
| Federal Gas Tax          |         | 400,000          | 408,000          | 416,160          | 424,483          | 432,973          | 441,632          | 450,465          | 459,474          | 468,664          | 478,037          |
| Infrastructure Programs  |         |                  |                  |                  | 848,966          | 865,946          | 883,265          | 900,930          |                  |                  |                  |
| Property Taxes (Net)     |         | 885,000          | 902,700          | 920,754          | 939,169          | 957,952          | 977,112          | 996,654          | 1,016,587        | 1,036,919        | 1,057,657        |
| <b>TOTAL REVENUES</b>    |         | <b>1,685,000</b> | <b>1,718,700</b> | <b>1,753,074</b> | <b>2,637,102</b> | <b>2,689,844</b> | <b>2,743,641</b> | <b>2,798,514</b> | <b>1,935,535</b> | <b>1,974,246</b> | <b>2,013,731</b> |
| <b>DEFICIT</b>           |         | <b>-183,208</b>  | <b>-283,733</b>  | <b>-216,609</b>  | <b>-552,227</b>  | <b>-509,945</b>  | <b>32,464</b>    | <b>34,722</b>    | <b>492,430</b>   | <b>599,320</b>   | <b>750,394</b>   |
| <b>RESERVE BALANCE</b>   | 556,227 | 373,019          | 89,286           | -127,324         | -679,551         | -1,189,495       | -1,157,031       | -1,122,309       | -629,879         | -30,559          | 719,835          |

Assumes 2% annual inflation.

## Appendix D

|                            | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021          | 2022          | 2023          |
|----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|
| <b>Glen Walter</b>         |                |                |                |                |                |                |                |               |               |               |
| Revenues                   | \$ 389,761.81  | \$ 396,436.88  | \$ 403,224.51  | \$ 407,364.37  | \$ 412,295.99  | \$ 416,635.59  | \$ 420,801.95  | \$ 425,009.97 | \$ 429,260.07 | \$ 433,552.67 |
| Operating Expenses         | \$ 274,669.28  | \$ 280,162.67  | \$ 285,765.92  | \$ 291,481.24  | \$ 297,310.87  | \$ 303,257.08  | \$ 309,322.22  | \$ 315,508.67 | \$ 321,818.84 | \$ 328,255.22 |
| Capital Costs (@2/3)       | \$ 247,112.64  | \$ 247,112.64  | \$ 247,112.64  | \$ 247,112.64  | \$ 247,112.64  | \$ 247,112.64  | \$ 247,112.64  | \$ 41,531.76  | \$ 41,531.76  | \$ 41,531.76  |
| Surplus/Deficit            | -\$ 132,020.12 | -\$ 130,838.43 | -\$ 129,654.05 | -\$ 131,229.51 | -\$ 132,127.51 | -\$ 133,734.13 | -\$ 135,632.92 | \$ 67,969.54  | \$ 65,909.47  | \$ 63,765.69  |
| <b>Lancaster</b>           |                |                |                |                |                |                |                |               |               |               |
| Revenues                   | \$ 564,946.13  | \$ 575,906.26  | \$ 587,068.08  | \$ 594,557.97  | \$ 753,142.25  | \$ 642,425.74  | \$ 651,475.68  | \$ 660,642.38 | \$ 669,927.26 | \$ 679,331.77 |
| Operating Expenses         | \$ 347,944.30  | \$ 354,903.18  | \$ 362,001.25  | \$ 369,241.27  | \$ 376,626.10  | \$ 384,158.62  | \$ 391,841.79  | \$ 399,678.63 | \$ 407,672.20 | \$ 415,825.64 |
| Capital Costs (@2/3)       | \$ 29,217.42   | \$ 29,217.42   | \$ 29,217.42   | \$ 29,217.42   | \$ 29,217.42   | \$ 29,217.42   | \$ 29,217.42   | \$ 320,843.28 | \$ 320,843.28 | \$ 320,843.28 |
| Surplus/Deficit            | \$ 187,784.41  | \$ 191,785.66  | \$ 195,849.41  | \$ 196,099.28  | \$ 347,298.73  | \$ 229,049.70  | \$ 230,416.47  | -\$ 59,879.53 | -\$ 58,588.22 | -\$ 57,337.15 |
| <b>Green Valley</b>        |                |                |                |                |                |                |                |               |               |               |
| Revenues                   | \$ 62,144.69   | \$ 63,271.54   | \$ 64,220.61   | \$ 65,062.39   | \$ 65,713.02   | \$ 66,573.74   | \$ 67,239.47   | \$ 68,119.55  | \$ 68,800.74  | \$ 69,700.61  |
| Operating Expenses         | \$ 63,654.12   | \$ 64,927.20   | \$ 66,225.75   | \$ 67,550.26   | \$ 68,901.27   | \$ 70,279.29   | \$ 71,684.88   | \$ 73,118.58  | \$ 74,580.95  | \$ 76,072.57  |
| Capital Costs (@2/3)       | \$ 6,560.10    | \$ 6,560.10    | \$ 6,560.10    | \$ 6,560.10    | \$ 6,560.10    | \$ 6,560.10    | \$ 6,560.10    | \$ 33,832.80  | \$ 33,832.80  | \$ 33,832.80  |
| Surplus/Deficit            | -\$ 8,069.53   | -\$ 8,215.76   | -\$ 8,565.23   | -\$ 9,047.97   | -\$ 9,748.35   | -\$ 10,265.66  | -\$ 11,005.50  | -\$ 38,831.83 | -\$ 39,613.00 | -\$ 40,204.76 |
| <b>Redwood/Kennedy</b>     |                |                |                |                |                |                |                |               |               |               |
| Revenues                   | \$ 29,193.19   | \$ 29,948.15   | \$ 30,397.37   | \$ 31,026.38   | \$ 62,052.73   | \$ 62,702.81   | \$ 62,702.81   | \$ 63,352.88  | \$ 63,352.88  | \$ 64,002.96  |
| Operating Expenses         | \$ 26,632.20   | \$ 27,164.84   | \$ 27,708.14   | \$ 28,262.30   | \$ 28,827.55   | \$ 29,404.10   | \$ 29,992.18   | \$ 30,592.03  | \$ 31,203.87  | \$ 31,827.94  |
| Capital Costs (@2/3)       | \$ 23,116.86   | \$ 23,116.86   | \$ 23,116.86   | \$ 23,116.86   | \$ 23,116.86   | \$ 23,116.86   | \$ 23,116.86   | \$ -          | \$ -          | \$ -          |
| Surplus/Deficit            | -\$ 20,555.87  | -\$ 20,333.56  | -\$ 20,427.63  | -\$ 20,352.79  | \$ 10,108.32   | \$ 10,181.85   | \$ 9,593.77    | \$ 32,760.86  | \$ 32,149.02  | \$ 32,175.02  |
| <b>Net Surplus/Deficit</b> | \$ 27,138.89   | \$ 32,397.91   | \$ 37,202.50   | \$ 35,469.01   | \$ 215,531.19  | \$ 95,231.77   | \$ 93,371.82   | \$ 2,019.04   | -\$ 142.74    | -\$ 1,601.20  |

Assumes 2% annual inflation.

Assumes funding from senior levels of government to cover 1/3 of total capital costs.