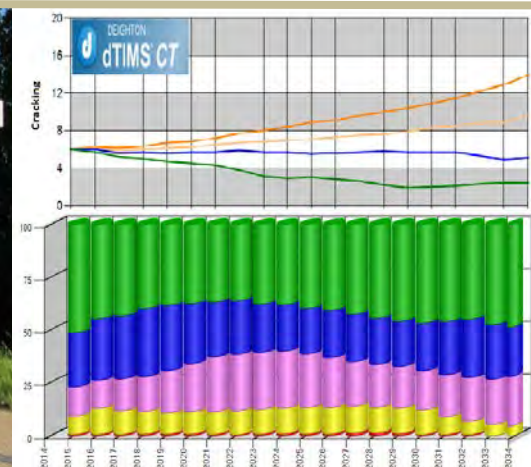
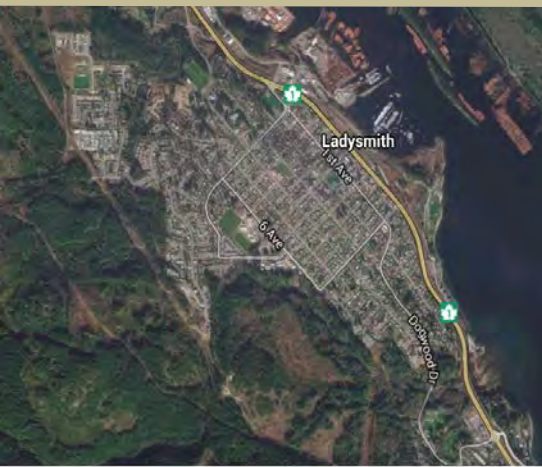


# PAVEMENT MANAGEMENT PLAN

## (FINAL REPORT)



PRESENTED TO  
**Town of Ladysmith**

AUGUST 21, 2015  
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## EXECUTIVE SUMMARY

Tetra Tech EBA Inc. (Tetra Tech EBA) was retained by the Town of Ladysmith (Town) to provide data collection services and a Pavement Management Program for the Town's paved road network including Collector and Local roads. The Town required the services of an engineering consultant to conduct pavement data collection, perform data analysis and to propose a comprehensive ten year pavement rehabilitation plan that includes remedial maintenance and funding strategies. This is the first comprehensive pavement evaluation and analysis since 1998.

The pavement condition of each of the Town's roads was assessed in April 2015 and included measurement of pavement surface distresses, roughness and rutting measurements, and collection of digital images at regular intervals. The road network was found to generally be in good condition with an average PCI of 82.3 and an average ACA of 6.3%. The PCI is the Pavement Condition Index as defined by ASTM on a scale from 100 to 0 where 100 represents a new road and zero represents a failed road surface. The ACA is used for life-cycle cost analysis and represents the percentage of the road surface with cracking. ACA is also used to compare to other municipalities.

There has been an increase in the length of the road network since 1998. The 1998 study included a total of 42.8 km of roads and the current study includes 57 km. This represents growth of 14.2 km, or 33%. In 1998, the roads were measured to have an average Surface Distress Index (SDI) of 8.51. The SDI scale is from 10 to 0 (new or recently resurfaced to very poor). The detailed determination of SDI is not known, however, many of the same distresses were inventoried in 1998. The PCI in 1998 can then be estimated as 85.1. The overall PCI has deteriorated slightly since 1998. The lack of significant deterioration in the average condition may be attributed to growth that has added new roads and resurfacing of a few other roads since 1998 which improve the average condition.

Roads that are deteriorated beyond the condition where they would be repaired if funding was available are referred to as backlog. These backlog roads begin to require increased reactive maintenance for patching and pothole filling. The backlog, in 2015, is 13% of the road network. The backlog is increased from 2% of the road network in 1998. This is consistent with changes in the Town's road network where growth has increased the average condition and older roads have deteriorated which increased the backlog.

Life-cycle cost analysis was conducted for each road segment so that the overall condition of the network could be forecast with alternative budget scenarios. Scenarios investigated were \$250,000 per year, \$500,000 per year, \$750,000 per year, and \$800,000 per year; these scenarios include both rehabilitation and routine maintenance. Funding of \$750,000 per year was found to be necessary to maintain the average condition of the road network over the next ten years. The deterioration that can be expected with lower funding levels was quantified as well as the improvement that can be expected at funding above \$750,000 per year.

A rehabilitation program for ten years based on the \$750,000 budget scenario is provided along with a map of the first five years of the program.

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## APPENDIX SECTIONS

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### APPENDICES

- Appendix A Tetra Tech EBA's General Conditions
- Appendix B 2015 Pavement Condition
- Appendix C Rehabilitation Program
- Appendix D Inventory Data

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## ACRONYMS & ABBREVIATIONS

APEGBC	Association of Professional Engineers & Geoscientists of British Columbia
dTIMS	Deighton Total Infrastructure Management System
FWD	FWD Falling Weight Deflectometer
HDM	Highway Development and Management
IFR	Issue For Review
IFU	Issue For Use
IRI	International Roughness Index
LCC	Life Cycle Cost
LCCA	Life Cycle Cost Analysis
LOS	Level of Service
PAVI	Pavement Asset Value Index
PCI	Pavement Condition Index
PMS	Pavement Management System
PSAB	Public Sector Accounting Board
PSP	Pavement Surface Profiler
QA	Quality Assurance
QC	Quality Control

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## LIMITATIONS OF REPORT

This report and its contents are intended for the sole use of Town of Ladysmith and their agents. Tetra Tech EBA Inc. (Tetra Tech EBA) does not accept any responsibility for the accuracy of any of the data, the analysis, or the recommendations contained or referenced in the report when the report is used or relied upon by any Party other than Town of Ladysmith, or for any Project other than the proposed development at the subject site. Any such unauthorized use of this report is at the sole risk of the user. Use of this report is subject to the terms and conditions stated in Tetra Tech EBA's Services Agreement. Tetra Tech EBA's General Conditions are provided in Appendix A of this report.



## 1.0 INTRODUCTION

### 1.1 General

Tetra Tech EBA Inc. (Tetra Tech EBA) was retained by the Town of Ladysmith (Town) to provide data collection services and Pavement Management Program for the Town’s road network including collector and Local roads. The Town required the services of an engineering consultant to conduct pavement data collection, perform data analysis and to propose a comprehensive ten year pavement rehabilitation plan that includes remedial maintenance and funding strategies.

This report documents the methodology followed to collect and analyze the road network data, and reports the existing network pavement condition and determines the funding required to maintain the network at current service levels. The report also provides a suggested treatment alternative for each management section as appropriate.

### 1.2 Authorization to Proceed

Authorization to proceed with this work was received from the Town. This work was completed under a Services Agreement, executed by the Town on March 26, 2015.

### 1.3 Project Definition

The Town of Ladysmith has approximately 57 centreline-km or 114.4 lane kilometers of streets consisting of collector and local roads (not including laneways and Provincial Highways). The extent of roadway is described in Table 1.

**Table 1: Extent of Roadway**

Road Class	Road centreline-km			Road lane-km
	Asphalt	Gravel	Total	Total
Collector	22.5	0.13	22.6	45.4
Local	33.7	0.75	34.4	69.0
<b>Network</b>	<b>56.2</b>	<b>0.88</b>	<b>57</b>	<b>114.4</b>

There is about 0.88 km gravel roads in the network as shown in Table 1, and, therefore, it was excluded in the analysis process and treatment recommendation.

### 1.4 Background

In 1998 the Town of Ladysmith, under the services of a consulting firm, developed a report which included a system condition summary of its entire paved road network. The 1998 study included a total of 42.8 km of roads; 12.6 km of collector roads and 30.2 km local roads. Compared to current centreline length, this represents growth of 14.1 km, or 33%.

The 1998 study used Surface Distress Index (SDI) on a scale from 10 to 0 (new or recently resurfaced to very poor). The method of determining SDI cannot be duplicated in the current study, however, very similar distresses were inventoried. The Town’s SDI in 1998 was an average of 8.51 which the report indicates as ‘generally very good condition’ (Uma Engineering Ltd., 1999). The report also states that over 90% of the network was above an SDI of 7, and 8% was between 6 and 7, a range in which maintenance or minor rehabilitation is required. The remaining 2% was stated as requiring some type of rehabilitation. This 2% can be compared to backlog in the current study.

## 2.0 PAVEMENT DATA COLLECTION PLATFORM

Tetra Tech EBA collected pavement condition data in April 2015 on 78.7 lane-km of the Town’s network. Georeferenced pavement condition assessments were conducted with the Pavement Surface Profiler (PSP-6000) vehicle. This vehicle was used to collect roughness (IRI), rutting, pavement surface distress and digital image log for the roadway.

The survey lane included a single lane on local roads and two lanes (one lane per direction) on collector roads and roads divided by a physical barrier. Table 2 shows length of lane-km collected for the road network.

**Table 2: Extent of Pavement Data Collection**

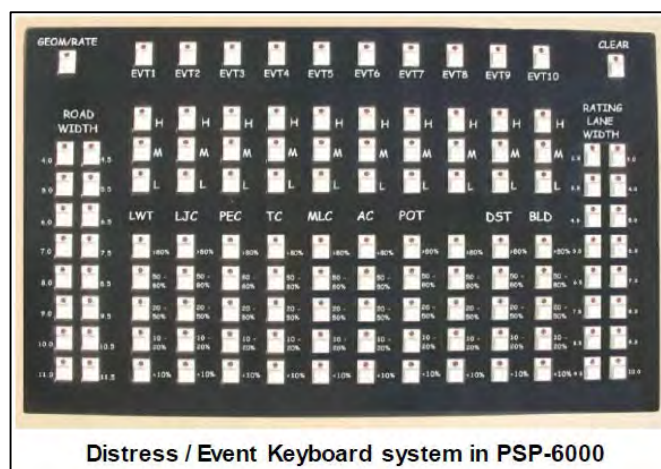
Road Class	Survey lane-km
Collector	45
Local	33.6
<b>Network</b>	<b>78.6</b>



### 2.1 Surface Distress Ratings

Tetra Tech EBA performed semi-automated pavement surface condition surveys using a Distress / Event Keyboard system in the PSP-6000 consistent to the most recent ASTM D6433 methodology. The PSP-6000 collects continuously and referencing is achieved through linear referencing by a vehicle based Distance Measuring Instrument (DMI) and high precision and inertial aided GPS locations. Tetra Tech EBA provided the data at a maximum interval of 50 m. This raw data was processed and loaded into the GIS. For this assignment, the set of distresses that were collected are:

- Alligator cracking (including longitudinal fatigue cracking);
- Transverse cracking;
- Longitudinal cracking (excluding fatigue cracking);
- Edge cracking;
- Block cracking;
- Patching and utility cut patching;
- Potholes;
- Weathering; and
- Ravelling;



According with ASTM D6433-11, each surface distress was measured for three severity classifications in each sample interval. Surface distresses were inventoried for the entire width of the surveyed lane.

## 2.2 Road Profile Measurements

The PSP-6000 vehicle’s longitudinal profile, roughness (IRI), transverse rut and cross-slope capabilities are provided by an inertial profiling system, which exceeds the industry standard ASTM E950 specifications.

The IRI and rutting data were collected only for collector roads on a continuous basis and reported at 50 m intervals during the 2015 pavement condition survey. Minimum survey speed of 25 km/hour is required for valid IRI/rut measurements and it is usually difficult to maintain or achieve on local roadways due to control section length or traffic control signage.

Transverse profile rut measurements were calculated much like manual rut measurements - using a straight edge and gauge block across each wheelpath. Rut measurements were calculated for the left and right wheelpath using a multi-point measurement, incorporating sensors near the centre of the vehicle, the wheelpath, and sensors outside the wheelpath.

## 2.3 Digital Right-of-Way Imagery

Tetra Tech EBA collected digital images using our integrated Digital Imaging System. This system provides a forward looking, full roadway view (the image spans from left side ROW to right side ROW) and is a permanent and fully referenced record of the roadway corridor at the time of survey.

For the Town, the image system captured images every 5 m. Digital imagery was collected on all local and collector routes surveyed.



## 2.4 Roadside Inventory Data Collection

To collect inventory data, Tetra Tech EBA developed a methodology using Thiessen polygons. The polygon segmentations were created based on the following rules:

- Intersections – Block to block segments based on distinct intersection locations.
- Pavement Homogeneity – Locations of obvious changes in roadway width and existence of concrete curb.
- Pavement Type – Changes in pavement surface type (Asphalt vs. Gravel or etc.).

For each pavement segment, attributes of surface type, road edge (existence of curb and sidewalk) and number of lanes were added to each polygon using the GIS Orthophotos and videolog imagery. In addition, the area and width of each polygon were calculated automatically by the GIS tools. Detailed tabular of 2015 Inventory data is provided in Appendix D.

## 2.5 Town’s Historical Construction Data

It is understood that the Town of Ladysmith has not completed any new pavement resurfacing projects in the past 10 years (since 2005) except for few segments.

In addition, there was some information regarding traffic volumes provided by the Town. Where information on traffic and pavement layer thickness was not available, assumptions were made based on road classification and standard pavement sections provided by the Town. Table 3 shows default values assumed for the road segments

without available data. The assumption of five times more volume on Collector than Local roads is consistent with the 1998 Study.

**Table 3: Assumed Historical Construction Data**

Road Class	Pavement Layer Thickness (mm)			Traffic
	Asphalt	Base	Subbase	AADT (vehicle/day)
Collector	75	100	250	2500
Local	50	100	250	500

### 3.0 PAVEMENT CONDITION INDICES

A pavement condition index is a value which expresses the overall condition of pavement by considering various factors such as surface distresses, structural defects, and ride quality. The proper pavement condition index depends upon the objectives of whatever system is used to manage a particular pavement network. The following indices were used in this project:

- World Bank’s HDM Indices;
- The Pavement Condition Index (PCI);
- Roughness and Rutting indices; and
- Overall Pavement Condition Index.

For the Town, these indices can help to determine the existing level of service (LOS) and can be used in the treatment selection process and pavement performance modeling.

#### 3.1 World Bank’s HDM Indices

Tetra Tech EBA uses indices as defined by the World Bank’s Highway Development and Management (HDM 4) models. Cracking is one of the most important distress in bituminous pavements. There are two types of cracking considered in HMD 4: Fatigue cracking and Thermal cracking. For each type of crack, separate index is given as described in below:

The fatigue crack index is defined as the percent area with load related fatigue cracks including alligator cracking; edge cracking; block cracking; potholes and patching (excluding low severity). The fatigue cracking is modelled as (Paterson, 1987):

- AFCL (%): Narrow Fatigue Cracking Area;
- AFCW (%): Wide Fatigue Cracking Area; and
- AFCA (%): All Fatigue Cracking Area (AFCL+ AFCW).

The thermal crack index is defined as the percent area with cracks that are affected by temperature including transverse cracking and Non-wheel path longitudinal cracking. It is defined as: (Paterson, 1987):

- TCL (%): Narrow Thermal Cracking Area;
- TCW (%): Wide Thermal Cracking Area; and
- TCA (%): All Thermal Cracking Area (TCL+ TCW).

The ACA Index is defined as total area of cracking including all fatigue cracks and thermal cracks:

- ACA (%): AFCA+ TCA.

Raveling can be related to poor mixture quality and inadequate compaction. The weathering distress is the wearing away of the asphalt binder and fine aggregate matrix primarily through oxidization of the bitumen due to age and environment. Since 2009, ASTM has treated these two distresses separately, because the mechanism causing these distresses is different. They have therefore also been recorded and analyzed separately in this report:

- RVL (%): Low severity Ravelling Area;
- RVH (%): Moderate to High severity Ravelling Area;
- WRL (%): Low severity Weathering Area; and
- WRH (%): Moderate to High severity Weathering Area.

### 3.2 Pavement Condition Index (PCI)

The Pavement Condition Index (PCI) is used to express the overall condition of the pavement surface as a function of the severity and extent of the observed surface distresses. The PCI is a numerical rating of the pavement condition that ranges from 0 to 100 with 0 being the worst possible condition and 100 being the best. The PCI is an indication of the overall health of the pavement segment and includes all of the measured surface distresses. The PCI was determined using the methodology documented in the ASTM-D6433 standard. The PCI is used to indicate the general condition of a pavement, however, it does not take into account pavement roughness or structural adequacy.

### 3.3 Pavement Roughness and Rutting Indices

Pavement roughness is a measure of the irregularities in the surface of a pavement that adversely affects the ride quality from a vehicle or user standpoint. The roughness is attributed to deviations of the surface from a true planar surface with characteristic dimensions that affect vehicle dynamics, ride quality, dynamic loads and drainage, expressed in the International Roughness Index (IRI). The IRI is the roughness index in millimeters per meter (mm /m) which is derived from measured longitudinal road profiles. Since its introduction in 1986, IRI has become the road roughness index most commonly used worldwide for evaluating and managing road systems.

Pavement surface ruts can pose a major safety concern and they affect the handling characteristics of a vehicle. The Rut index in millimetres (mm) is defined as average of inner and outer wheel path rutting depths.

### 3.4 Overall Pavement Condition Index

It is often desired to represent the overall condition of the pavement using one combined index that includes all of the pavement surface, roughness and structural integrity parameters. Tetra Tech has developed an overall index

called the Pavement Asset Value Index (PAVI). The PAVI is expressed as a percentage or ratio of the pavement asset's remaining value.

A pavement's asset value is considered to be comprised of the following components:

- The cost of excavation and subgrade preparation;
- The cost of sub-base placement and compaction;
- The cost of granular base placement and compaction; and
- The cost of the in-place wearing surface.

The value of the pavement structure is reduced by cracks, raveling, weathering, ride quality and structural adequacy. Therefore, the repair cost is defined as follows for this project:

Repair Cost (\$) =

$$\begin{aligned} & \text{AFCL} * (50 \text{ mm Mill and fill Cost}) + \text{AFCW} * (\text{Reconstruction Cost}) \\ & + \text{TCL} * (\text{Crack seal Cost}) + \text{TCW} * (50 \text{ mm Mill and fill Cost}) \\ & + \text{WRH} * (\text{Micro surfacing Cost}) + \text{RVH} * (\text{Patching Cost}) \\ & + \{ \text{Segment Area} * 50 \text{ mm Mill and fill Cost} \ ; \ \text{IF } (\text{IRI} > 3.5 \text{ mm/m or RUT} > 12) \} \end{aligned}$$

The Pavement Asset Value Index (PAVI) is derived by following formula:

$$PAVI = 100 * \left( 1 - \frac{\text{Repair Cost}}{\text{pavement's asset value}} \right)$$

A PAVI of 100 represents an as-new pavement while a PAVI of 0 indicates a pavement structure with no remaining value; needing complete reconstruction.

### 3.5 Pavement Condition Classification

According to the ASTM 6433 standard, a verbal description of pavement condition as a function of the PCI value that varies from "Failed" to "Good" as shown in Table 4.

**Table 4: PCI Ranges for Condition Descriptions According to ASTM standard**

Condition Description	Colour Code	PCI Pavement Index Range
Good		85 < PCI ≤ 100
Satisfactory		70 < PCI ≤ 85
Fair		55 < PCI ≤ 70
Poor		40 < PCI ≤ 55
Very Poor		25 < PCI ≤ 40
Serious		10 < PCI ≤ 25
Failed		0 < PCI ≤ 10

Pavement condition represented by AFCA, IRI, Rut and PAVI can be classified into five categories as very good, good, fair, poor or very poor. Table 5 provides the range of values used for each condition description.

**Table 5: Index Ranges for Condition Descriptions**

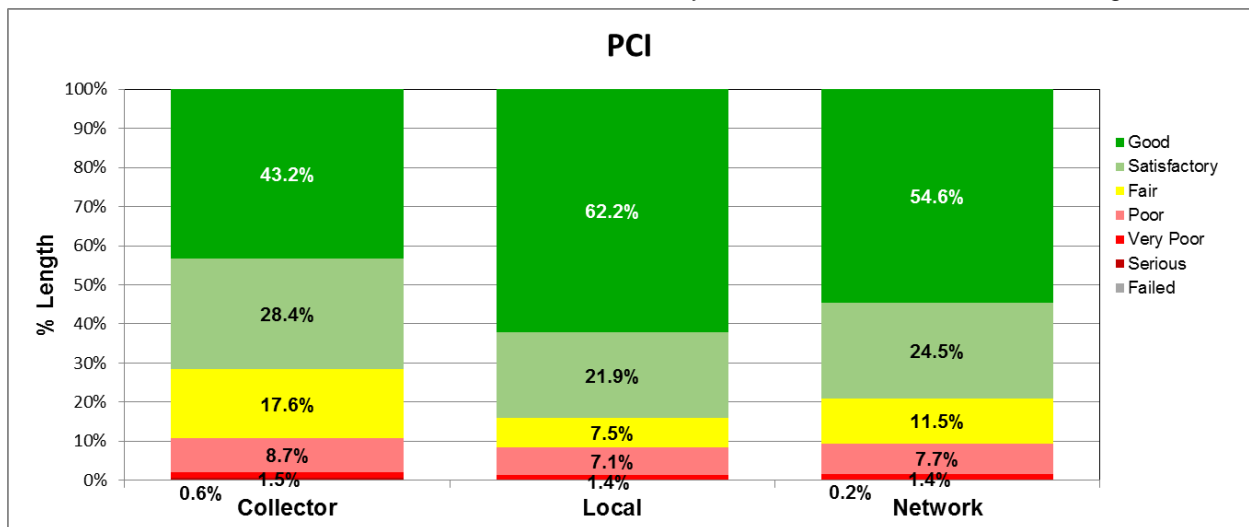
Rating	AFCA Index Range (%)	IRI Index Range (mm/m)	Rut (mm)	PAVI	Colour Code
Very Good	0-1	< 1.8	< 3	99-100	Green
Good	1-5	1.8 - 2.5	3-6	94-99	Blue
Fair	5-10	2.5 -3.5	6-12	83-94	Magenta
Poor	10-30	3.5 - 6.5	12-25	60-83	Yellow
Very Poor	30-100	> 6.5	>25	< 60	Red

## 4.0 2015 PAVEMENT CONDITION PRESENT STATUS

As described in Section 3, the pavement condition indices including HDM Indices, PCI, IRI, RUT and PAVI are used to report pavement condition status. Detailed tabular of 2015 pavement condition indices is provided in Appendix B.

### 4.1 Road Network PCI Condition

The distribution of PCI values for the network and for each roadway classification is shown below in Figure 1.



**Figure 1: 2015 Pavement Condition Distribution in Terms of PCI**

The 2015 paved network was found to have a mean PCI of 82.3 indicating that, on average, the surface is in Satisfactory condition (PCI from 70 to 85) overall. Approximately 9.4 % of the road network has PCI< 55. Pavements in poor condition more often result in citizen complaints and increased user maintenance costs for vehicle wear and tear.

A GIS map displaying the 2015 pavement condition index of the road network based on PCI is presented in Appendix B.

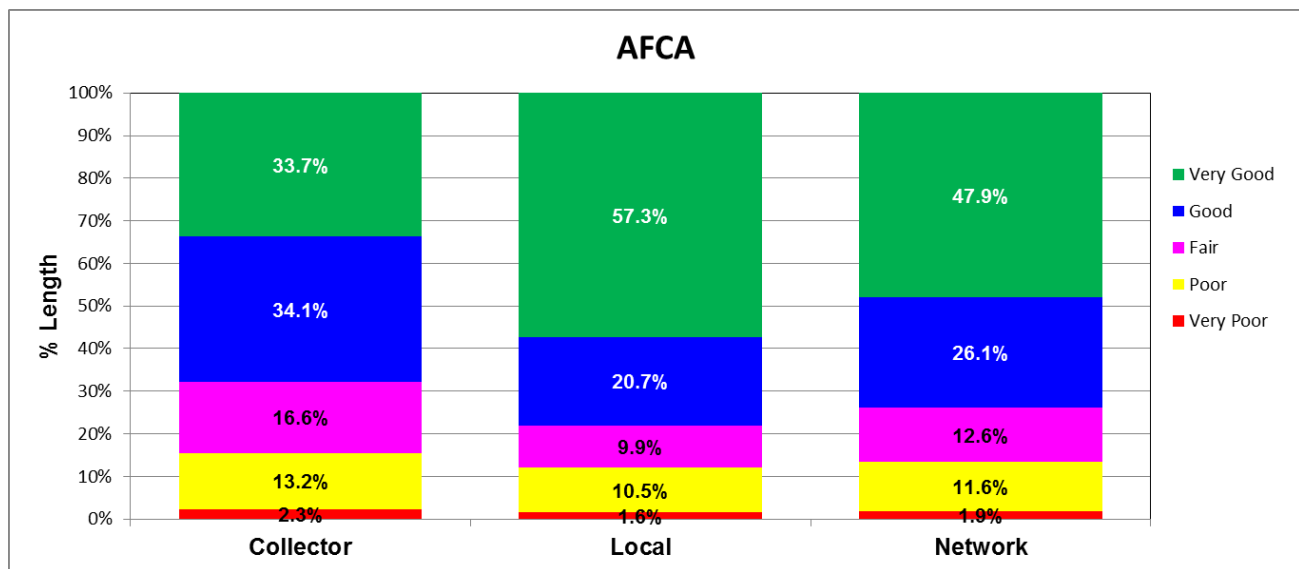
## 4.2 Pavement Percent Cracking

Table 6 provides a breakdown of the average pavement percent cracking (AFCA, TCA and ACA) in 2015 for each roadway classification.

**Table 6: Average 2015 Pavement Percent Cracking for Road Classes**

Road Class	AFCA (%)	TCA (%)	ACA (%) (AFCA+ TCA)
Collector	4.9	2.1	7.1
Local	3.8	2.0	5.8
<b>Network</b>	<b>4.3</b>	<b>2.1</b>	<b>6.3</b>

The distribution of AFCA values for the network and for each roadway classification is shown below in Figure 2. The figure indicates that 13.5% of the network was in poor or very poor condition in 2015.



**Figure 2: 2015 Pavement Condition Distribution in Terms of AFCA**

GIS maps displaying the 2015 pavement percent cracking based on the AFCA Index are presented in Appendix B.

### 4.2.1 Pavement Condition Comparison to Other Municipalities

Table 7 shows a comparison of the Town’s roadway network (Collector) to the roads of other municipalities in British Columbia in terms of ACA. Local roads have been excluded for the purposes of comparison with agencies because this list is for major roads only.



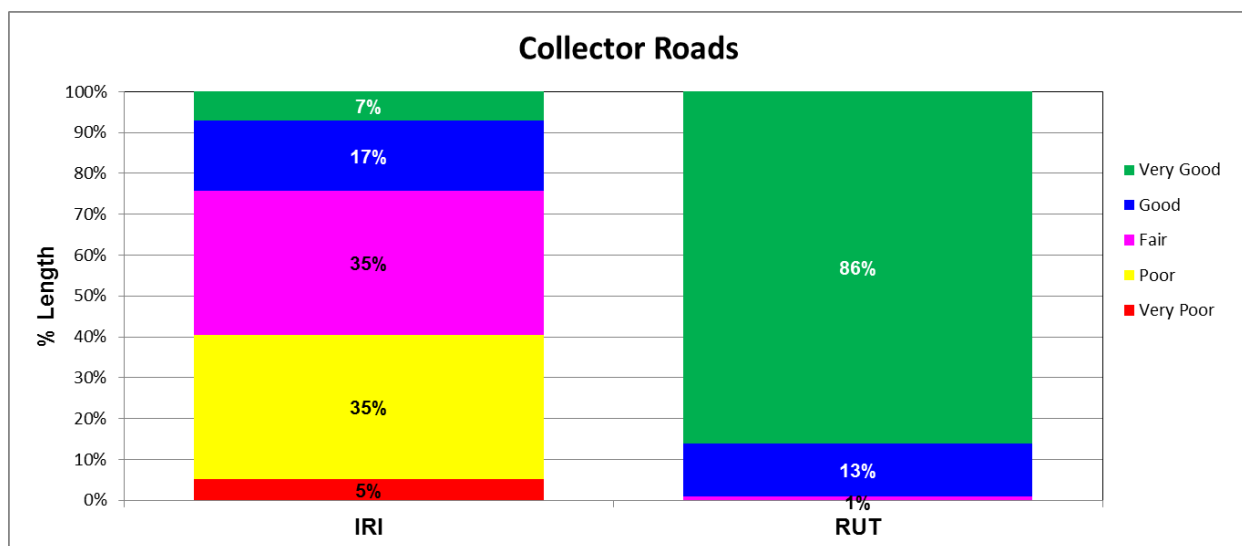
**Table 7: Pavement Condition Comparison in terms of ACA (Collector)**

Municipality	% Cracking	Length (km)
Hope (2006)	13.7	20
Fernie (2007)	13.6	11
Coquitlam (2010)	10.0	135
Maple Ridge (2008)	8.8	154
Surrey (2014)	8.7	538
North Vancouver (2009)	8.4	129
New Westminster (2011)	8.3	40
Langley City (2008)	8.2	50
Gibsons (2014)	8.1	11
Pitt Meadows (2011)	7.3	46
<b>Ladysmith (2015)</b>	<b>7.1</b>	<b>23</b>
Coquitlam (2014)	5.7	140
Delta (2011)	5.6	113
Langley Township (2008)	5.0	328
Oak Bay (2012)	5.0	37
Richmond (2004)	3.7	98
Victoria (2012)	2.1	106

### 4.3 Road Network Roughness and Rut Condition (Collector Roads)

As discussed previously, The IRI and Rut were collected only for collector roads. The average IRI and Rut values were 3.6 mm/m and 2.6 mm respectively in 2015.

The distribution of IRI and RUT values for collector roads is shown in Figure 3. The figure indicates that in 2015, a high percentage of the Collector roads was above the IRI threshold value of 3.5 mm/m (poor or very poor condition).



**Figure 3: 2015 Pavement Condition Distribution in Terms of IRI and RUT for Collector Roads**

The IRI that roadway users will consider to be above acceptable limits is a function of roadway operating speed and user expectations. The limit between fair and poor is therefore different in urban areas compared to high speed highways. The IRI threshold of 3.5 mm/m is consistent with a limit used by the South Coast British Columbia Transportation Authority (TransLink) which has a requirement that no more than 20% of the lower mainland’s designated Major Road Network be above 3.5 mm/m. The MRN roads are regional roads that are not maintained by the Province of BC.

Urban networks generally have shorter segments with curbed cross-sections, lower operating speed, frequent intersections, and numerous interfaces with utility access boxes which causes the IRI to increase. An IRI greater than 3.5 mm/m is relatively high but does not necessarily indicate that it is unacceptable or that the pavement surface has defects in need of repair. The high roughness may be in a location where vehicle speeds are generally low, such as the downtown. Because of this, roadways are not considered to be in backlog simply because of relatively high IRI.

GIS map displaying the 2015 pavement roughness and rutting are presented in Appendix B.

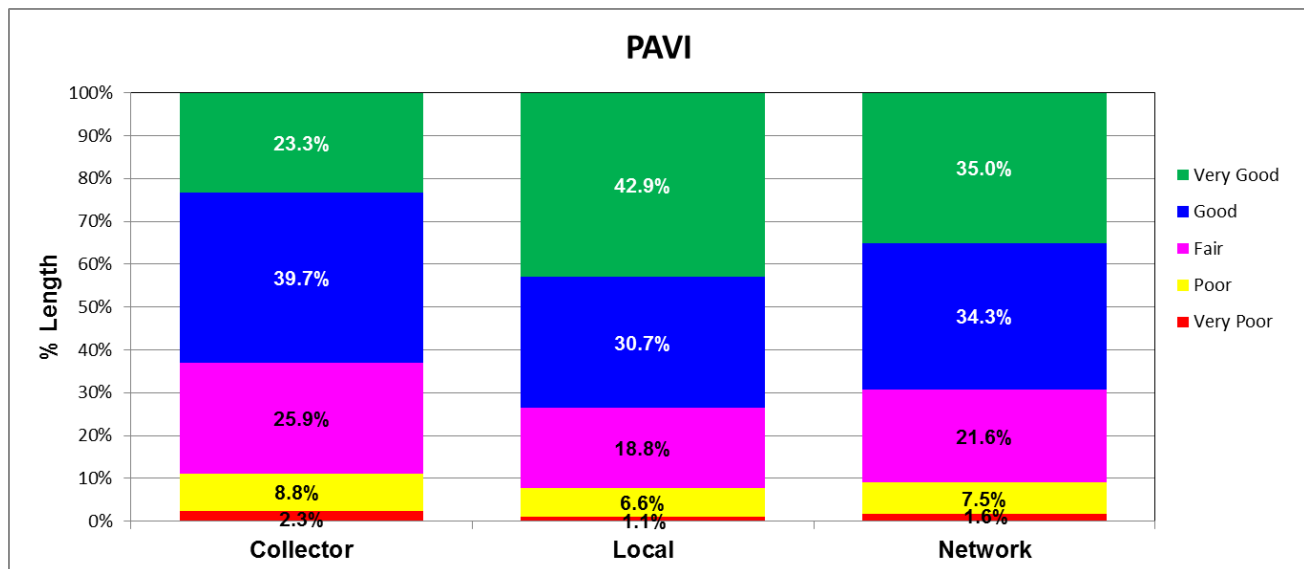
#### 4.4 Pavement Overall Condition (PAVI)

Table 8 provides a breakdown of the average PAVI for each roadway classification. The 2015 paved network was found to have a mean PAVI of 94.3 indicating that the surface is in good condition (PAVI from 94 to 99) overall.

**Table 8: Average 2015 PAVI for Road Classes**

Road Class	PAVI
Collector	93.6
Local	94.8
<b>Network</b>	<b>94.3</b>

The distribution of PAVI values for the network and for each roadway classification is shown below in Figure 4. The figure shows that approximately 9.1% of the road network was in poor or very poor condition in 2015.



**Figure 4: 2015 Pavement Condition Distribution in Terms of PAVI**

A GIS map displaying the 2015 overall pavement condition of the road network based on PAVI Index is presented in Appendix B.

#### 4.5 Length of Backlog Roads

The road segments in poor to very poor condition that have not yet been rehabilitated, are defined as “backlog roads”. A road is said to be in backlog when its AFCA is greater than 10% or RUT is greater than 12 mm indicating poor to very poor condition. As discussed, roughness (IRI) was excluded from the determination of backlog and there were no roadway sections with average RUT greater than 12 mm. Table 9 shows length of backlog roads in 2015 based on the AFCA index. This backlog represents approximately 13% of the road network and is an increase from the 2% inferred from discussion in the 1998 study.

**Table 9: Length of Backlog Roads in 2015**

Road Class	Centre-line Length of Backlog Roads (m)
Collector	3,494
Local	4,060
<b>Network</b>	<b>7,554</b>

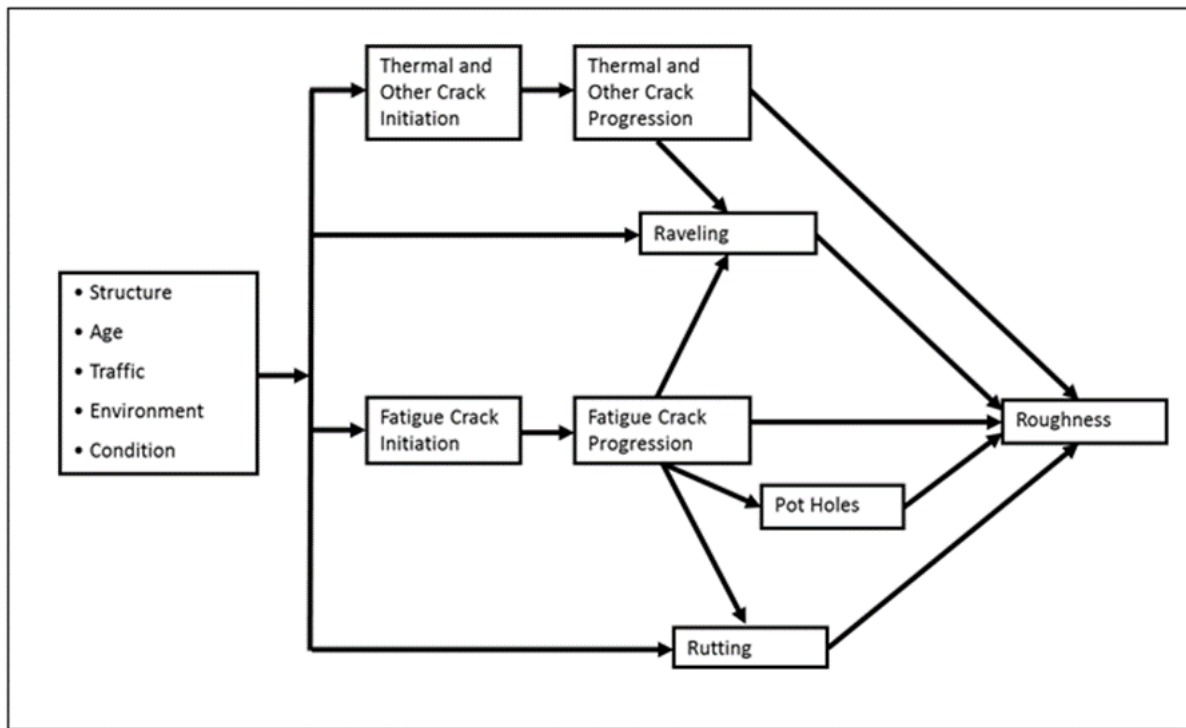
### 5.0 ANALYSIS METHODOLOGY

#### 5.1 Data Analysis Software

Tetra Tech EBA used Deighton’s Total Infrastructure Management System (dTIMS) software for data analysis and reporting. The software is unique in its ability to model pavement performance by any possible method including user-defined models and indices, which can be tailored to meet the Town’s specific needs with local conditions.

#### 5.2 Pavement Performance Modeling

Tetra Tech EBA used the World Bank’s Highway Development and Management (HDM IV) models that have been developed and updated by a worldwide team of experts over the past 20 years. These models are able to predict the propagation of individual distresses such as cracking, rutting, and roughness. Figure 5 illustrates the progression of these models from required inputs through to predicted condition.



**Figure 5: Predicting Pavement Performance**

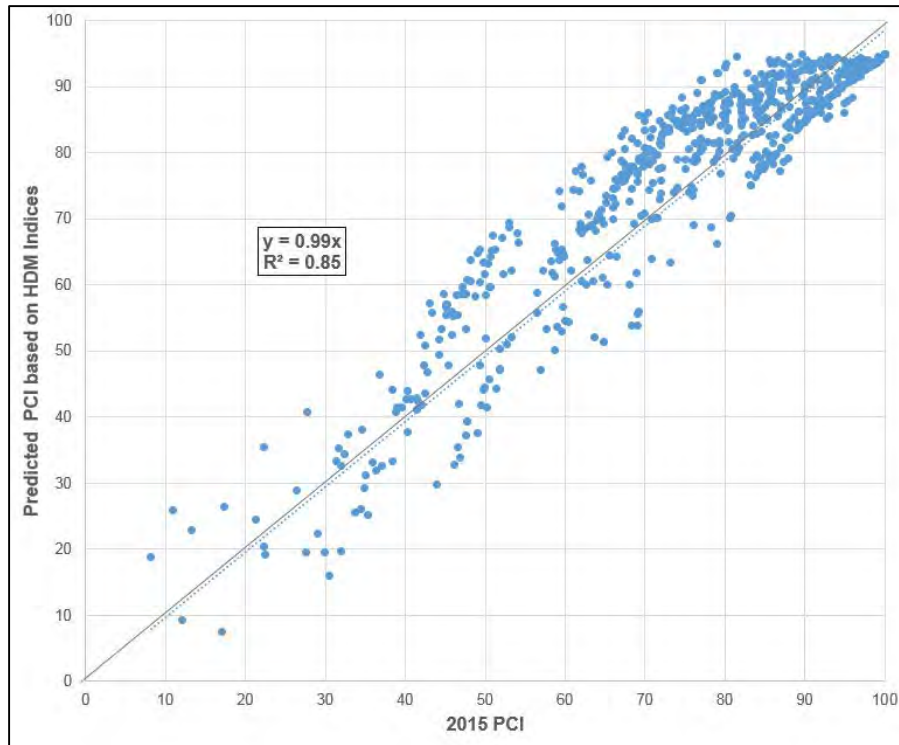
This enables systems using these models to select appropriate treatments, and to accurately assess current condition and value.

### 5.3 PCI Prediction Based on HDM Indices

In order to predict PCI during the analysis period, a relationship between 2015 PCI and HDM indices was developed as shown in the following formula:

$$PCI = e^{(-0.0208 \times AFCL - 0.0312 \times AFCW - 0.0144 \times TCA - 0.0106 \times RVH - 0.0692 \times RUT + 4.5536)}$$

A graphical comparison between the predicted and actual PCI values in 2015 is depicted in Figure 6. The purpose of this correlation is to be able to calculate PCI in future years using modelled HDM distresses. The figure indicates that PCI can be estimated from HDM indices with good accuracy.



**Figure 6: Relationship between 2015 PCI (ASTM methodology) and predicted PCI using HDM Indices**

## 5.4 Parametric Data

In addition to the inventory sections and condition data, additional data was required to define the parameters of potential improvements and interventions. The analysis required the following parametric data to be established:

- Analysis Sets;
- Treatments Types and Costs;
- Treatment Triggers;
- Treatment Resets; and
- Budget Scenarios.

A brief description of each of the parametric datasets is provided in the following sections.

### 5.4.1 Analysis Sets

The analysis constraints are the centre of a life cycle cost analysis. They define the boundary conditions for the analysis. Analysis constraints are parameters such as:

- How long the analysis will go into the future (the analysis period of 20 years was used);

- Which elements are being analyzed;
- Which list of treatments is involved; and
- Discount rate to be used to establish present value (Discount rate of 4% was used).

### 5.4.2 Treatments Types and Costs

A number of maintenance and rehabilitation treatments were established, based on input from Town. The treatments and their unit costs are shown in Table 10. Typically crack sealing and patching are considered maintenance treatments whereas the other treatments are considered rehabilitation treatments.

**Table 10: Treatments and unit costs used in the analysis**

Treatment	Unit Cost
Crack Sealing	\$5/L-m
Shallow Patching	\$15/m <sup>2</sup>
Overlay (50 mm)	\$22/m <sup>2</sup> +(Crack Area Patching Cost*)
Mill and Fill (50 mm)	\$30/m <sup>2</sup> + (Crack Area Patching Cost*)
Reclaim	\$50/m <sup>2</sup>
Reconstruction	\$100/m <sup>2</sup>
Subsequent Rehabilitations	\$22/m <sup>2</sup> (no curb) or \$30/m <sup>2</sup> (with curb)

\* Crack Area Patching Cost = \$30/m<sup>2</sup> \* AFCL + \$100/m<sup>2</sup> \* AFCW ,where:  
 AFCL= Narrow fatigue crack (%); AFCW= Wide fatigue cracking (%);

### 5.4.3 Treatment Triggers

The feasibility of applying a treatment on a given performance section is usually limited by physical or other constraints. For example, thick overlays cannot be directly applied to sections with curb and gutter. Similarly, a treatment should never be applied in the absence of any surface distress and an overlay should not be considered if the pavement is too severely distressed. A set of “triggers” are developed so that only feasible strategies are explored. The triggers (shown in Table 11) limit the number of strategies to those that can feasibly be applied.

**Table 13: Maintenance and Rehabilitation Triggers**

Treatment	Trigger Criteria	Variable
Crack Sealing	AFCL >1% Or TCL > 1%	AFCL: Narrow fatigue crack (%) AFCW: Wide fatigue cracking (%) AFCA: All fatigue cracking (%) TCL: Narrow thermal cracking (%) TCW: Wide thermal cracking (%)
Patching	AFCW + TCW > 1%	
Overlay (50 mm)	AFCA > 9% and AFCA < 30% and (No Curb)	
Mill and Fill (50 mm)	AFCA > 9% and AFCA < 30% and (Curb Exists)	
Reconstruction	AFCA >= 30% and (Curb Exists)	
Reclamation	AFCA >= 30% and (No Curb)	

### 5.4.4 Treatment Resets

With the selection and application of any given treatment, the performance of a road will improve. For example with a 50 mm overlay, ruts would be filled, cracking would be overlaid, roughness would decrease, and strength would increase. Therefore, to predict performance over time and account for and compare possible interventions, the performance models have to adjust the individual distress data to reflect the application of the treatment. These changes to the value of the analysis variables as a result of the application of a treatment are called resets. Some heavy rehabilitation treatments, such as reconstruction, might reset virtually all of the analysis variables.

### 5.4.5 Method to Measure Benefit

One method to derive the benefit is to multiply the area under the pavement performance curve and the length of the pavement section. The Area under the Curve was calculated by summing the present value of the difference between the condition index (such as AFCA) resulting from a strategy and the condition index for the do-nothing strategy (base case strategy) for each year in the analysis period. A strategy is a collection of treatments over time that addresses the deficiency of the road segment. Figure 7 shows an example of calculating the benefit based on AFCA Index, for an overlay strategy during the 20 year analysis period.

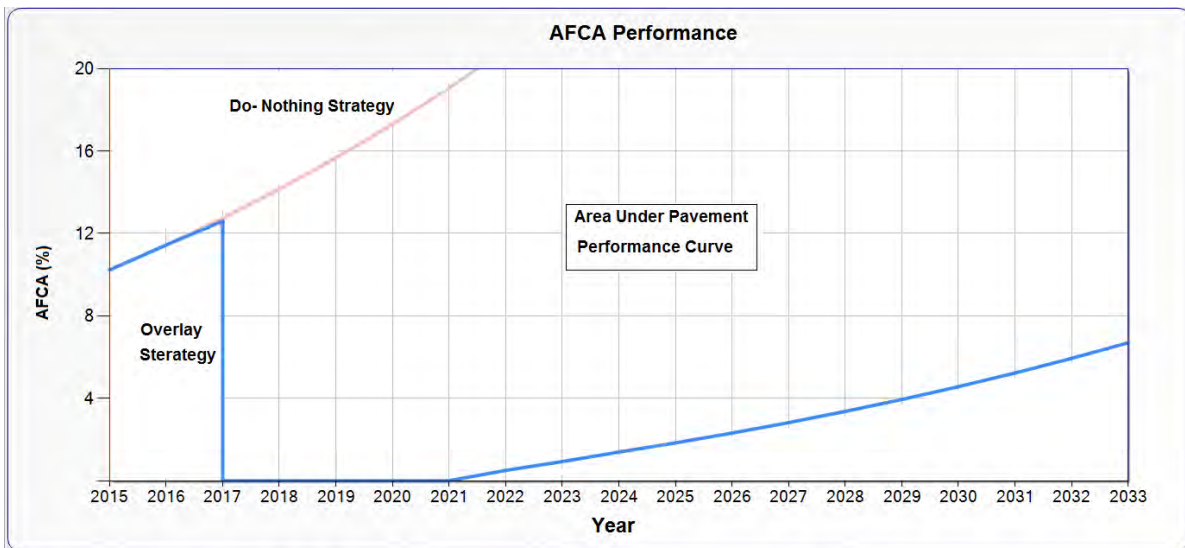


Figure 7: Example of calculating the benefit for an Overlay Strategy

Traffic (i.e. AADT) as a customer criteria could be considered in the benefit definition. For this project, the benefit was defined combining both condition and traffic, as shown in the following formula:

$$Benefit = Present\ Value\ of\ Area\ under\ Pavement\ Performance\ Curve \times \sqrt{AADT}$$

### 5.4.6 Budget Scenarios

For the purposes of this study, four funding level were used as budget constraint in order to assist the Town with its decision making process .The budget levels used are given in Table 12. Routine maintenance (Crack seal and Patching) costs were included in the total budgets.

**Table 14: Budget Scenarios used in the 2015 Analysis**

Budget Scenario	Average Annual Funding Average Over 10-Years	
	Rehabilitation	Maintenance
\$250,000	\$130,000	\$120,000
\$500,000	\$400,000	\$100,000
\$750,000	\$670,000	\$80,000
\$800,000	\$730,000	\$70,000

## 6.0 ANALYSIS RESULTS

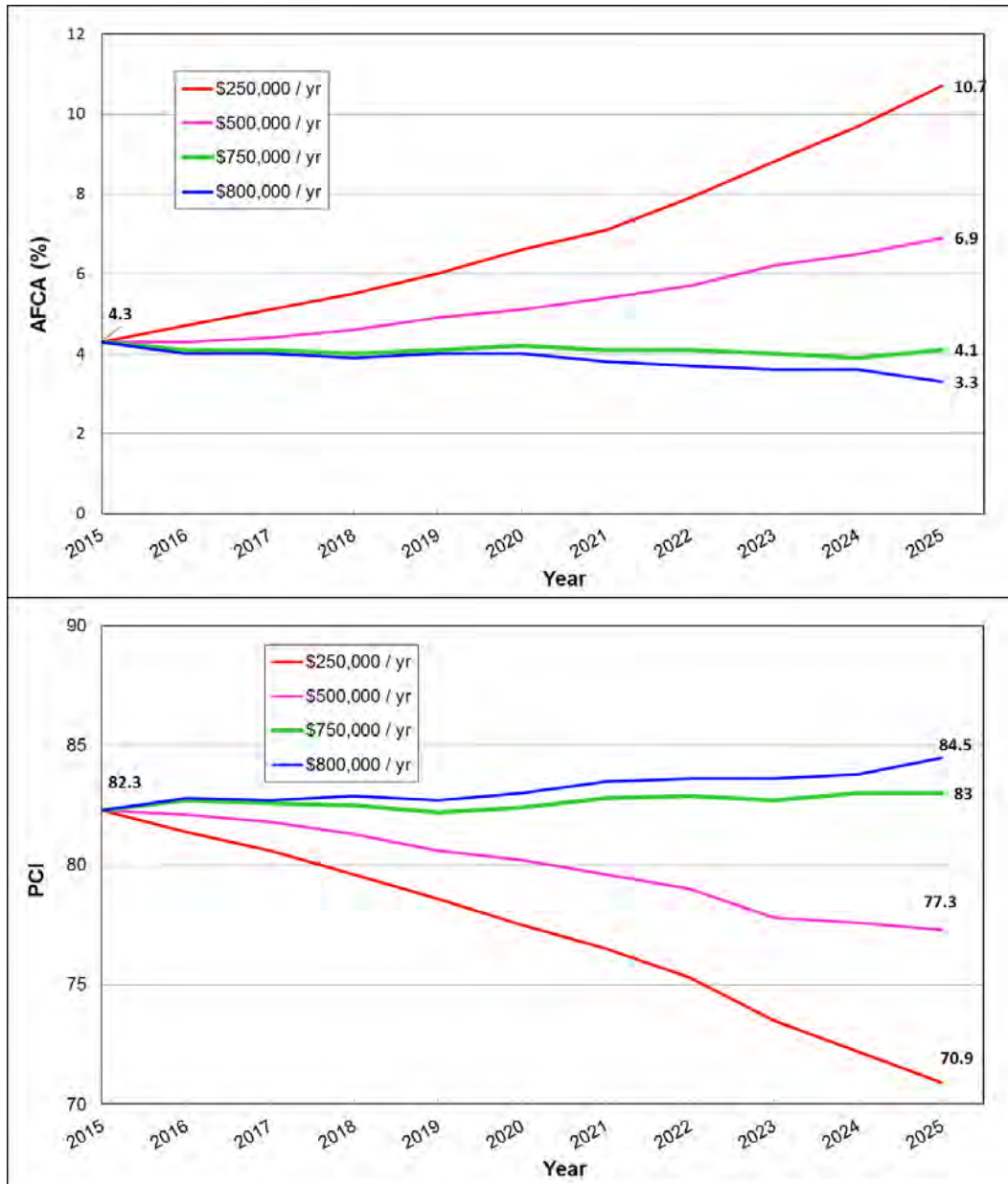
### 6.1 Priority List

Regardless of the budget constraints, a priority listing of road segments indicating the pavement condition in order of worst-to-best is provided Appendix C using only the pavement condition (i.e. PCI). A second priority listing combining both condition and traffic to establish user-benefit is also provided in Appendix C.

### 6.2 Required Annual Budget Analysis

Various scenarios were analyzed to measure the effects of alternative funding levels and to determine the funding needed keep current condition of the road network or improve it during 10 years. Figure 8 shows the average AFCA and PCI values of the road network for different budget scenarios over a 10-year period. As shown in the figure, the pavement percent cracking is expected to remain about 4.3% with \$750,000 per year. The PCI value is also remain about 82 with this scenario. Considering higher budget of \$800,000 per year could improve the road condition during 10 years.





**Figure 8: Predicting AFCA and PCI for different Budget Scenarios**

The effect of various funding levels in terms of backlog roads length is also shown in Figure 9. The figure indicates that the backlog length is reduced from 7.554 km in 2015 to 2.734 km in 2025 with \$750,000 annual budget. The figure also indicates that the backlog roads would be increased with lower funding.

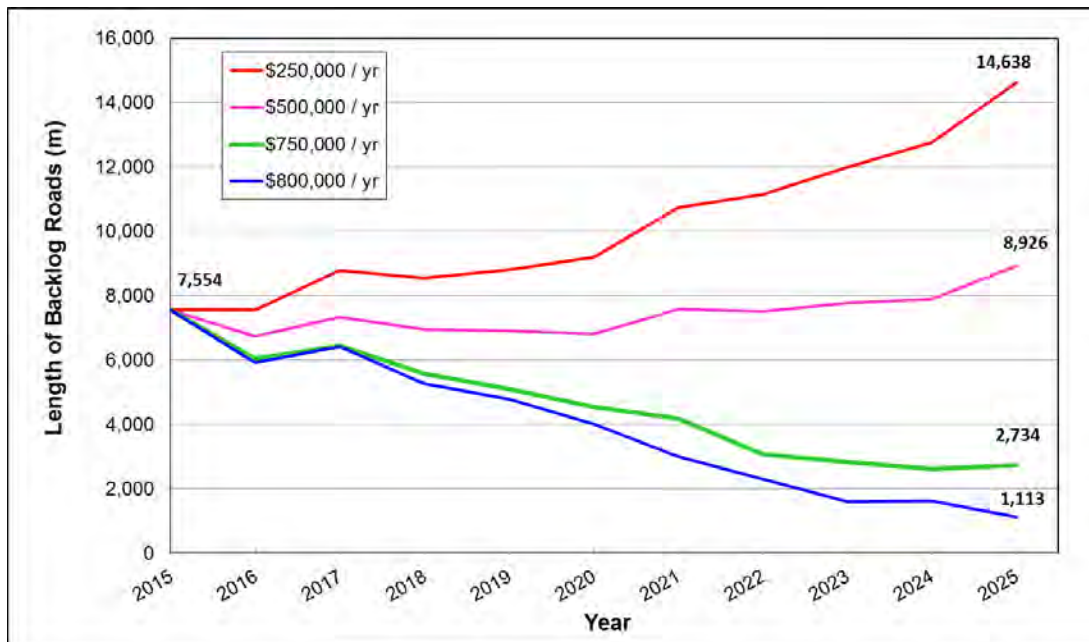


Figure 9: Future Backlog Projection based on Various Budget Scenarios

### 6.3 5-year Rehabilitation Program

GIS maps showing a five year paving program based upon \$750,000 annual budget for the road network is provided in Appendix C. This program includes only the major rehabilitation treatments chosen by the analysis. The rehabilitation program suggested should be confirmed by completing project level assessments and designs.

## 7.0 CONCLUSION

Life-cycle cost analysis was conducted for each road segment so that the overall condition of the network could be forecast with alternative budget scenarios. Scenarios investigated were \$250,000 per year, \$500,000 per year, \$750,000 per year, and \$800,000 per year; these scenarios include both rehabilitation and routine maintenance. Funding of \$750,000 per year was found to be necessary to maintain the average condition of the road network over the next ten years. This is based on the principle that the overall long-term life cycle cost of the network is minimized by rehabilitating pavements before reconstruction and/or extensive deep patching is required. This is achieved by setting the budget at a level that minimizes the cost of maintaining the network’s asset value. The deterioration that can be expected with lower funding levels was quantified as well as the improvement that can be expected at funding above \$750,000 per year.

## 8.0 CLOSURE

We trust this report meets your present requirements. If you have any questions or comments, please contact the undersigned.

Respectfully submitted,  
Tetra Tech EBA Inc.



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## REFERENCES

- Paterson, W. (1987). *Road Deterioration and Maintenance Effects*. Washington, D.C, USA: World Bank Publications.
- Uma Engineering Ltd. (1999). *1998 Road Network Information Report*. Town of Ladysmith, BC.

# APPENDIX A

## TETRA TECH EBA'S GENERAL CONDITIONS

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# GENERAL CONDITIONS

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## GEOTECHNICAL REPORT

This report incorporates and is subject to these “General Conditions”.

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### 1.0 USE OF REPORT AND OWNERSHIP

This geotechnical report pertains to a specific site, a specific development and a specific scope of work. It is not applicable to any other sites nor should it be relied upon for types of development other than that to which it refers. Any variation from the site or development would necessitate a supplementary geotechnical assessment.

This report and the recommendations contained in it are intended for the sole use of Tetra Tech EBA’s Client. Tetra Tech EBA does not accept any responsibility for the accuracy of any of the data, the analyses or the recommendations contained or referenced in the report when the report is used or relied upon by any party other than Tetra Tech EBA’s Client unless otherwise authorized in writing by Tetra Tech EBA. Any unauthorized use of the report is at the sole risk of the user.

This report is subject to copyright and shall not be reproduced either wholly or in part without the prior, written permission of Tetra Tech EBA. Additional copies of the report, if required, may be obtained upon request.

### 2.0 ALTERNATE REPORT FORMAT

Where Tetra Tech EBA submits both electronic file and hard copy versions of reports, drawings and other project-related documents and deliverables (collectively termed Tetra Tech EBA’s instruments of professional service), only the signed and/or sealed versions shall be considered final and legally binding. The original signed and/or sealed version archived by Tetra Tech EBA shall be deemed to be the original for the Project.

Both electronic file and hard copy versions of Tetra Tech EBA’s instruments of professional service shall not, under any circumstances, no matter who owns or uses them, be altered by any party except Tetra Tech EBA. Tetra Tech EBA’s instruments of professional service will be used only and exactly as submitted by Tetra Tech EBA.

Electronic files submitted by Tetra Tech EBA have been prepared and submitted using specific software and hardware systems. Tetra Tech EBA makes no representation about the compatibility of these files with the Client’s current or future software and hardware systems.

### 3.0 ENVIRONMENTAL AND REGULATORY ISSUES

Unless stipulated in the report, Tetra Tech EBA has not been retained to investigate, address or consider and has not investigated, addressed or considered any environmental or regulatory issues associated with development on the subject site.

### 4.0 NATURE AND EXACTNESS OF SOIL AND ROCK DESCRIPTIONS

Classification and identification of soils and rocks are based upon commonly accepted systems and methods employed in professional geotechnical practice. This report contains descriptions of the systems and methods used. Where deviations from the system or method prevail, they are specifically mentioned.

Classification and identification of geological units are judgmental in nature as to both type and condition. Tetra Tech EBA does not warrant conditions represented herein as exact, but infers accuracy only to the extent that is common in practice.

Where subsurface conditions encountered during development are different from those described in this report, qualified geotechnical personnel should revisit the site and review recommendations in light of the actual conditions encountered.

### 5.0 LOGS OF TESTHOLES

The testhole logs are a compilation of conditions and classification of soils and rocks as obtained from field observations and laboratory testing of selected samples. Soil and rock zones have been interpreted. Change from one geological zone to the other, indicated on the logs as a distinct line, can be, in fact, transitional. The extent of transition is interpretive. Any circumstance which requires precise definition of soil or rock zone transition elevations may require further investigation and review.

### 6.0 STRATIGRAPHIC AND GEOLOGICAL INFORMATION

The stratigraphic and geological information indicated on drawings contained in this report are inferred from logs of testholes and/or soil/rock exposures. Stratigraphy is known only at the locations of the testhole or exposure. Actual geology and stratigraphy between testholes and/or exposures may vary from that shown on these drawings. Natural variations in geological conditions are inherent and are a function of the historic environment. Tetra Tech EBA does not represent the conditions illustrated as exact but recognizes that variations will exist. Where knowledge of more precise locations of geological units is necessary, additional investigation and review may be necessary.

### **7.0 PROTECTION OF EXPOSED GROUND**

Excavation and construction operations expose geological materials to climatic elements (freeze/thaw, wet/dry) and/or mechanical disturbance which can cause severe deterioration. Unless otherwise specifically indicated in this report, the walls and floors of excavations must be protected from the elements, particularly moisture, desiccation, frost action and construction traffic.

### **8.0 SUPPORT OF ADJACENT GROUND AND STRUCTURES**

Unless otherwise specifically advised, support of ground and structures adjacent to the anticipated construction and preservation of adjacent ground and structures from the adverse impact of construction activity is required.

### **9.0 INFLUENCE OF CONSTRUCTION ACTIVITY**

There is a direct correlation between construction activity and structural performance of adjacent buildings and other installations. The influence of all anticipated construction activities should be considered by the contractor, owner, architect and prime engineer in consultation with a geotechnical engineer when the final design and construction techniques are known.

### **10.0 OBSERVATIONS DURING CONSTRUCTION**

Because of the nature of geological deposits, the judgmental nature of geotechnical engineering, as well as the potential of adverse circumstances arising from construction activity, observations during site preparation, excavation and construction should be carried out by a geotechnical engineer. These observations may then serve as the basis for confirmation and/or alteration of geotechnical recommendations or design guidelines presented herein.

### **11.0 DRAINAGE SYSTEMS**

Where temporary or permanent drainage systems are installed within or around a structure, the systems which will be installed must protect the structure from loss of ground due to internal erosion and must be designed so as to assure continued performance of the drains. Specific design detail of such systems should be developed or reviewed by the geotechnical engineer. Unless otherwise specified, it is a condition of this report that effective temporary and permanent drainage systems are required and that they must be considered in relation to project purpose and function.

### **12.0 BEARING CAPACITY**

Design bearing capacities, loads and allowable stresses quoted in this report relate to a specific soil or rock type and condition. Construction activity and environmental circumstances can materially change the condition of soil or rock. The elevation at which a soil or rock type occurs is variable. It is a requirement of this report that structural elements be founded in and/or upon geological materials of the type and in the condition assumed. Sufficient observations should be made by qualified geotechnical personnel during construction to assure that the soil and/or rock conditions assumed in this report in fact exist at the site.

### **13.0 SAMPLES**

Tetra Tech EBA will retain all soil and rock samples for 30 days after this report is issued. Further storage or transfer of samples can be made at the Client's expense upon written request, otherwise samples will be discarded.

### **14.0 INFORMATION PROVIDED TO TETRA TECH EBA BY OTHERS**

During the performance of the work and the preparation of the report, Tetra Tech EBA may rely on information provided by persons other than the Client. While Tetra Tech EBA endeavours to verify the accuracy of such information when instructed to do so by the Client, Tetra Tech EBA accepts no responsibility for the accuracy or the reliability of such information which may affect the report.

# APPENDIX B

## 2015 PAVEMENT CONDITION

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2015 Pavement Condition Indices Spreadsheet

GIS Map - 2015 PCI

GIS Map - 2015 AFCA

GIS Map - 2015 IRI

GIS Map - 2015 RUT

GIS Map - 2015 PAVI



ElementID	Road	From	To	Length (m)	Street_From	Street_To	Class	AFCA %	TCA%	ACA %	IRI (mm/m)	RUT (mm)	PCI	PAVI
Ana-001-010	1st Avenue	0	104	104	Dogwood Drive / Methuen Street	White Street	COL	6.1	3.4	9.6	3.5	2	75.6	93
Ana-001-020	1st Avenue	104	206	102	White Street	Baden-Powell Street	COL	5.1	1.9	7.0	1.7	2	76.7	98
Ana-001-030	1st Avenue	206	311	105	Baden-Powell Street	Roberts Street	COL	5.4	2.0	7.3	4.9	2	77.1	95
Ana-001-040	1st Avenue	311	413	102	Roberts Street	Gatacre Street	COL	0.6	1.9	2.5	4.9	7	84.3	99
Ana-001-050	1st Avenue	413	518	105	Gatacre Street	High Street	COL	0.0	0.4	0.4	3.3	6	78.5	100
Ana-001-060	1st Avenue	518	622	104	High Street	Buller Street	COL	5.1	1.6	6.7	4.4	3	72.2	95
Ana-001-070	1st Avenue	622	726	104	Buller Street	Kitchener Street	COL	3.5	1.2	4.7	4.2	3	83.0	97
Ana-001-080	1st Avenue	726	829	103	Kitchener Street	French Street	COL	2.6	1.2	3.8	3.4	4	73.2	99
Ana-001-090	1st Avenue	829	930	101	French Street	Warren Street	COL	2.5	1.1	3.6	4.5	4	68.4	97
Ana-001-100	1st Avenue	930	1036	106	Warren Street	Symonds Street	COL	1.0	0.9	1.9	3.3	5	86.1	100
Ana-001-110	1st Avenue	1036	1234	198	Symonds Street	Ludlow Road	COL	1.0	1.4	2.4	2.8	2	93.2	100
Ana-002-010	2nd Avenue	0	102	102	Methuen Street	White Street	LOC	4.6	1.4	6.1	-	-	70.6	97
Ana-002-020	2nd Avenue	102	206	104	White Street	Baden-Powell Street	LOC	0.5	1.9	2.4	-	-	92.2	100
Ana-002-030	2nd Avenue	206	310	104	Baden-Powell Street	Roberts Street	LOC	1.0	1.2	2.2	-	-	87.8	99
Ana-002-040	2nd Avenue	310	408	98	Roberts Street	Gatacre Street	LOC	2.6	0.8	3.3	-	-	85.1	99
Ana-002-050	2nd Avenue	408	519	111	Gatacre Street	High Street	LOC	12.6	0.0	12.6	-	-	52.8	84
Ana-002-060	2nd Avenue	519	623	104	High Street	Buller Street	LOC	0.0	0.5	0.5	-	-	99.2	100
Ana-002-070	2nd Avenue	623	723	100	Buller Street	Kitchener Street	LOC	4.0	4.5	8.4	-	-	77.8	98
Ana-002-080	2nd Avenue	723	1034	311	Kitchener Street	Symonds Street	LOC	22.1	2.8	24.9	-	-	59.8	69
Ana-002-090	2nd Avenue	1034	1598	564	Symonds Street	Strathcona Road	LOC	4.9	13.1	18.0	-	-	75.6	91
Ana-003-010	3rd Avenue	0	103	103	Methuen Street	White Street	LOC	2.7	1.9	4.6	-	-	72.9	97
Ana-003-020	3rd Avenue	103	207	104	White Street	Baden-Powell Street	LOC	6.0	1.0	6.9	-	-	59.8	91
Ana-003-030	3rd Avenue	207	310	103	Baden-Powell Street	Roberts Street	LOC	7.8	2.4	10.2	-	-	63.5	88
Ana-003-040	3rd Avenue	310	415	105	Roberts Street	Gatacre Street	LOC	0.0	0.5	0.5	-	-	70.1	96
Ana-003-050	3rd Avenue	415	521	106	Gatacre Street	High Street	LOC	0.2	1.1	1.4	-	-	61.3	93
Ana-003-060	3rd Avenue	521	622	101	High Street	Buller Street	LOC	6.9	2.5	9.4	-	-	59.4	93
Ana-003-070	3rd Avenue	622	723	101	Buller Street	Kitchener Street	LOC	3.9	0.6	4.5	-	-	75.3	96
Ana-003-080	3rd Avenue	723	828	105	Kitchener Street	French Street	LOC	26.0	1.9	27.9	-	-	27.5	59
Ana-003-090	3rd Avenue	828	934	106	French Street	Warren Street	LOC	4.0	2.8	6.8	-	-	76.4	97
Ana-003-100	3rd Avenue	934	1035	101	Warren Street	Symonds Street	LOC	10.7	0.0	10.7	-	-	55.1	90
Ana-003-110	3rd Avenue	1035	1424	389	Symonds Street	Walkem Road	LOC	0.0	0.3	0.3	-	-	99.7	100
Ana-003-120	3rd Avenue	1424	1554	130	Walkem Road	Christie Road	LOC	0.0	1.9	1.9	-	-	97.0	100
Ana-004-010	4th Avenue	0	104	104	4th Avenue Extension / Methuen Street	White Street	COL	9.8	3.0	12.8	7.0	3	48.6	83
Ana-004-020	4th Avenue	104	207	103	White Street	Baden-Powell Street	COL	3.7	4.8	8.5	4.8	2	69.2	91
Ana-004-030	4th Avenue	207	313	106	Baden-Powell Street	Roberts Street	COL	2.7	3.3	6.0	5.1	2	73.1	93
Ana-004-040	4th Avenue	313	416	103	Roberts Street	Gatacre Street	COL	1.0	2.3	3.3	5.2	3	61.3	93
Ana-004-050	4th Avenue	416	520	104	Gatacre Street	High Street	COL	3.8	1.2	5.0	4.3	2	77.6	94
Ana-004-060	4th Avenue	520	623	103	High Street	Buller Street	COL	2.5	2.6	5.1	3.9	2	73.3	92
Ana-004-070	4th Avenue	623	727	104	Buller Street	Kitchener Street	COL	5.0	7.4	12.4	3.6	2	67.7	86
Ana-004-080	4th Avenue	727	831	104	Kitchener Street	French Street	COL	1.5	8.9	10.4	4.5	4	59.4	92
Ana-004-090	4th Avenue	831	935	104	French Street	Warren Street	COL	2.2	1.8	4.0	5.0	3	76.6	96

ElementID	Road	From	To	Length (m)	Street_From	Street_To	Class	AFCA %	TCA%	ACA %	IRI (mm/m)	RUT (mm)	PCI	PAVI
Ana-004-100	4th Avenue	935	1039	104	Warren Street	Symonds Street	COL	3.4	1.7	5.1	5.5	2	68.0	94
Ana-004-110	4th Avenue	1039	1425	386	Symonds Street	Walkem Road	COL	16.8	1.1	17.9	3.0	3	49.5	80
Ana-004-120	4th Avenue	1425	1552	127	Walkem Road	Christie Road / Cook Street	COL	17.0	2.2	19.1	4.2	4	43.7	69
Ana-004-130	4th Avenue	1552	2155	603	Christie Road / Cook Street	Churchill Place / Greenhorn Place	COL	5.1	2.8	7.8	3.1	2	78.1	93
Ana-004-140	4th Avenue	2155	2243	88	Churchill Place / Greenhorn Place	Alderwood Drive	COL	0.1	1.9	2.0	3.3	1	90.0	99
Ana-004-150	4th Avenue	2243	2385	142	Alderwood Drive	Jim Cram Drive	COL	0.0	0.0	0.0	2.5	1	100.0	100
Ana-005-010	4th Avenue Extension	0	356	356	West End	Hartley Place	LOC	1.8	3.4	5.2	-	-	83.3	99
Ana-005-020	4th Avenue Extension	356	458	102	Hartley Place	Hambrook Street	LOC	2.6	0.5	3.1	-	-	87.3	99
Ana-005-030	4th Avenue Extension	458	558	100	Hambrook Street	Root Street	LOC	38.0	3.0	41.0	-	-	49.6	83
Ana-005-040	4th Avenue Extension	558	653	95	Root Street	Belaire Street	LOC	34.5	1.3	35.8	-	-	33.5	63
Ana-005-050	4th Avenue Extension	653	837	184	Belaire Street	4th Avenue / Methuen Street	LOC	26.7	1.2	27.9	-	-	47.0	66
Ana-005-060	4th Avenue To Dogwood	0	95	95	4th Avenue	Dogwood	LOC	2.0	1.0	3.0	-	-	90.0	98
Ana-006-010	5th Avenue	0	103	103	Methuen Street	White Street	LOC	0.0	9.4	9.4	-	-	82.9	99
Ana-006-020	5th Avenue	103	207	104	White Street	Baden-Powell Street	LOC	0.0	3.6	3.6	-	-	95.3	100
Ana-006-030	5th Avenue	207	310	103	Baden-Powell Street	Roberts Street	LOC	0.0	10.3	10.3	-	-	85.4	99
Ana-006-040	5th Avenue	310	414	104	Roberts Street	Gatacre Street	LOC	1.4	2.4	3.8	-	-	72.7	97
Ana-006-050	5th Avenue	414	520	106	Gatacre Street	High Street	LOC	0.9	2.0	2.9	-	-	76.0	97
Ana-006-060	5th Avenue	520	622	102	High Street	Buller Street	LOC	1.0	1.0	2.0	-	-	89.2	99
Ana-006-070	5th Avenue	622	727	105	Buller Street	Kitchener Street	LOC	3.1	1.0	4.0	-	-	76.1	88
Ana-006-080	5th Avenue	727	830	103	Kitchener Street	French Street	LOC	0.0	3.8	3.8	-	-	93.9	100
Ana-006-090	5th Avenue	830	932	102	French Street	Warren Street	LOC	0.5	3.4	3.9	-	-	88.6	99
Ana-006-100	5th Avenue	932	1036	104	Warren Street	Symonds Street	LOC	0.0	5.2	5.2	-	-	93.1	100
Ana-007-010	6th Avenue	0	103	103	Methuen Street	White Street	COL	3.3	1.5	4.8	3.4	2	78.1	95
Ana-007-020	6th Avenue	103	207	104	White Street	Baden-Powell Street	COL	0.0	2.2	2.2	3.5	2	91.2	100
Ana-007-030	6th Avenue	207	311	104	Baden-Powell Street	Roberts Street	COL	7.0	0.5	7.5	4.9	3	60.6	91
Ana-007-040	6th Avenue	311	363	52	Roberts Street	Malone Road	COL	31.7	0.9	32.6	7.0	3	41.8	43
Ana-007-050	6th Avenue	363	415	52	Malone Road	Gatacre Street	COL	30.8	1.3	32.1	8.6	4	28.9	41
Ana-007-060	6th Avenue	415	519	104	Gatacre Street	High Street	COL	14.9	1.4	16.3	7.6	4	47.5	75
Ana-007-070	6th Avenue	519	620	101	High Street	Buller Street	COL	11.4	2.8	14.2	5.8	3	61.2	78
Ana-007-080	6th Avenue	620	726	106	Buller Street	Kitchener Street	COL	4.9	2.1	7.0	4.8	4	62.9	90
Ana-007-090	6th Avenue	726	829	103	Kitchener Street	French Street	COL	8.3	3.4	11.7	3.9	2	63.5	84
Ana-007-100	6th Avenue	829	932	103	French Street	Warren Street	COL	4.9	1.6	6.4	2.7	2	77.7	98
Ana-007-110	6th Avenue	932	1036	104	Warren Street	Symonds Street	COL	8.4	2.7	11.1	3.8	1	69.6	90
Ana-008-010	Alderwood Drive	0	48	48	South End	Birchwood Road	LOC	0.0	12.5	12.5	-	-	86.0	99
Ana-008-020	Alderwood Drive	48	198	150	Birchwood Road	Cedarwood Road	LOC	11.7	9.9	21.6	-	-	50.4	85
Ana-008-030	Alderwood Drive	198	246	48	Cedarwood Road	4th Avenue	LOC	2.0	14.8	16.9	-	-	76.0	98
Ana-009-010	Arbutus Crescent	0	91	91	Dogwood Drive	Betram Place	LOC	2.4	1.8	4.2	-	-	70.9	95
Ana-009-020	Arbutus Crescent	91	472	381	Betram Place	Dogwood Drive	LOC	0.0	0.1	0.1	-	-	99.6	100
Ana-010-010	Ashwell Place	0	76	76	South End	Louise Road	LOC	0.0	1.7	1.7	-	-	97.2	100
Ana-011-010	Baden-Powell Street	0	135	135	6th Avenue	5th Avenue	COL	3.5	1.8	5.3	5.0	1	80.3	96
Ana-011-020	Baden-Powell Street	135	269	134	5th Avenue	4th Avenue	COL	2.4	2.6	5.0	4.3	1	82.2	95

ElementID	Road	From	To	Length (m)	Street_From	Street_To	Class	AFCA %	TCA%	ACA %	IRI (mm/m)	RUT (mm)	PCI	PAVI
Ana-011-030	Baden-Powell Street	269	403	134	4th Avenue	3rd Avenue	COL	5.5	2.1	7.6	3.1	2	72.0	97
Ana-011-040	Baden-Powell Street	403	535	132	3rd Avenue	2nd Avenue	COL	5.1	0.7	5.8	4.1	2	67.6	91
Ana-011-050	Baden-Powell Street	535	620	85	2nd Avenue	Northeast End	COL	3.4	0.9	4.3	12.2	1	86.9	97
Ana-011-060	Baden-Powell Street	621	760	139	1st Avenue	Esplanade Avenue	COL	2.0	1.0	3.0	10.5	2	77.4	95
Ana-012-010	Baker Road	0	150	150	Davis Road	Northwest End	COL	11.1	1.1	12.2	3.3	1	81.4	84
Ana-013-010	Ballou Place	0	125	125	West End	Russell Road	LOC	0.0	0.0	0.0	-	-	100.0	100
Ana-014-010	Battie Drive	0	363	363	Davis Road	Ryan Place	LOC	8.2	1.1	9.3	-	-	77.2	88
Ana-014-020	Battie Drive	363	457	94	Ryan Place	Davis Road	LOC	0.5	4.7	5.3	-	-	86.7	99
Ana-015-010	Battie Drive 1	0	209	209	Thetis Drive	Northwest End	LOC	0.5	1.0	1.6	-	-	93.3	100
Ana-016-010	Bayview Avenue	0	53	53	Southeast End	Stephenson Street	COL	8.1	3.4	11.5	5.7	4	80.7	84
Ana-016-020	Bayview Avenue	53	584	531	Stephenson Street	Gifford Road	COL	2.5	1.3	3.9	2.8	2	90.6	97
Ana-016-030	Bayview Avenue	584	753	169	Gifford Road	Dogwood Drive	COL	0.2	1.5	1.7	3.3	2	94.0	100
Ana-017-010	Belaire Street	0	113	113	Jamison Road	Lions Way	LOC	7.0	2.9	10.0	-	-	68.6	85
Ana-017-020	Belaire Street	113	222	109	Lions Way	4th Avenue Extension	LOC	1.6	6.4	8.0	-	-	87.6	94
Ana-017-030	Belaire Street	222	316	94	4th Avenue Extension	Rigby Place	LOC	37.3	1.9	39.1	-	-	54.8	83
Ana-017-040	Belaire Street	316	380	64	Rigby Place	Dogwood Drive	LOC	1.2	0.4	1.6	-	-	93.7	99
Ana-018-010	Betram Place	0	103	103	Southeast End	Arbutus Crescent	LOC	0.8	4.0	4.9	-	-	87.0	99
Ana-019-010	Bickle Drive	0	204	204	Dunsmuir Crescent	Coburn Place	LOC	22.0	2.4	24.5	-	-	45.3	69
Ana-020-010	Birchwood Road	0	69	69	Oakwood Road	Maplewood Way	LOC	8.2	1.5	9.7	-	-	67.4	92
Ana-020-020	Birchwood Road	69	268	199	Maplewood Way	Alderwood Drive	LOC	15.1	3.8	18.9	-	-	55.0	79
Ana-021-010	Blair Place	0	83	83	West End	Glen Avenue	LOC	0.0	1.9	1.9	-	-	95.2	100
Ana-021-020	Blair Place	83	127	44	Glen Avenue	East End	LOC	1.6	1.1	2.8	-	-	88.7	99
Ana-022-010	Brown Drive	0	132	132	Colonia Drive / Walkem Road	Stuart Place	LOC	1.7	4.8	6.5	-	-	80.5	98
Ana-022-020	Brown Drive	132	287	155	Stuart Place	Stillin Drive	LOC	2.1	3.8	5.9	-	-	80.6	99
Ana-023-010	Buller Street	0	136	136	6th Avenue	5th Avenue	COL	12.3	1.5	13.8	6.4	3	49.4	82
Ana-023-020	Buller Street	136	267	131	5th Avenue	4th Avenue	COL	13.4	1.1	14.6	5.9	3	56.6	80
Ana-023-030	Buller Street	267	402	135	4th Avenue	3rd Avenue	COL	30.4	0.6	31.0	8.4	8	22.0	45
Ana-023-040	Buller Street	402	533	131	3rd Avenue	2nd Avenue	COL	2.4	7.2	9.6	5.0	4	75.7	94
Ana-023-050	Buller Street	533	622	89	2nd Avenue	Market Lane	COL	5.8	4.4	10.1	6.7	3	70.0	93
Ana-023-060	Buller Street	622	669	47	Market Lane	1st Avenue	COL	6.2	3.1	9.3	10.6	4	68.9	89
Ana-023-070	Buller Street	669	807	138	1st Avenue	Esplanade Avenue	COL	1.7	3.2	4.9	5.1	2	87.2	97
Ana-024-010	Cameron Place	0	431	431	Colonia Drive	Colonia Drive	LOC	1.1	2.0	3.1	-	-	91.0	99
Ana-025-010	Captain Tristan de Konnick Way	0	495	495	Southeast End	Transfer Beach Boulevard	LOC	0.9	0.0	0.9	-	-	98.3	100
Ana-026-010	Carey Road	0	64	64	Davidson Road	North End	LOC	0.0	0.0	0.0	-	-	97.4	100
Ana-027-010	Cedarwood Road	0	198	198	Oakwood Road	Maplewood Way	LOC	1.8	0.3	2.1	-	-	89.2	97
Ana-027-020	Cedarwood Road	198	272	74	Maplewood Way	Alderwood Drive	LOC	24.1	1.3	25.5	-	-	43.7	76
Ana-028-010	Chemainus Road	0	385	385	Glen Avenue	Woodley Road	COL	0.0	0.3	0.3	1.6	2	99.4	100
Ana-028-020	Chemainus Road	385	1143	758	Woodley Road	Tyrrell Road	COL	0.0	0.0	0.0	1.7	2	100.0	100
Ana-028-030	Chemainus Road	1143	1232	89	Tyrrell Road	Gill Road	COL	0.0	0.8	0.8	1.9	3	98.6	100
Ana-028-040	Chemainus Road	1232	1369	137	Gill Road	King Road	COL	2.8	0.9	3.7	3.3	2	83.8	98
Ana-028-050	Chemainus Road	1369	1419	50	King Road	Davis Road	COL	3.4	0.5	3.9	10.6	2	87.0	93

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Ana-029-010	Christie Road	0	124	124	4th Avenue	3rd Avenue	COL	18.8	2.6	21.3	4.3	3	48.2	66
Ana-029-020	Christie Road	124	211	87	3rd Avenue	Strathcona Road	COL	0.0	0.0	0.0	1.9	1	99.2	100
Ana-029-030	Christie Road	211	534	323	Strathcona Road	Grouhel Road	COL	0.7	0.0	0.7	1.4	2	90.7	99
Ana-031-010	Clarke Road	0	148	148	Stephenson Street	East End	LOC	2.8	0.4	3.2	-	-	72.3	96
Ana-032-010	Cloke Road	0	243	243	Symonds Street	Wilrose Place	LOC	0.0	2.2	2.2	-	-	95.1	100
Ana-032-020	Cloke Road	243	373	130	Wilrose Place	Short Close	LOC	0.4	6.3	6.7	-	-	88.9	99
Ana-032-030	Cloke Road	373	499	126	Short Close	Walkem Road	LOC	9.1	3.5	12.6	-	-	71.7	84
Ana-032-040	Cloke Road	499	663	164	Walkem Road	Cook Street	LOC	0.6	9.1	9.7	-	-	85.7	99
Ana-032-050	Cloke Road	663	724	61	Cook Street	Taylor	LOC	0.0	11.2	11.2	-	-	86.5	99
Ana-032-060	Cloke Road	724	803	79	Taylor	Forrest Place / Giovando Way	LOC	0.0	12.3	12.3	-	-	85.8	99
Ana-032-070	Cloke Road	803	846	43	Forrest Place / Giovando Way	Churchill Place	LOC	0.0	12.2	12.2	-	-	86.3	99
Ana-033-010	Coburn Place	0	80	80	Southeast End	Bickle Drive	LOC	3.0	4.1	7.1	-	-	77.1	98
Ana-033-020	Coburn Place	80	154	74	Bickle Drive	Dunsmuir Crescent	LOC	0.7	4.2	4.9	-	-	87.4	99
Ana-034-010	Colonia Drive	0	141	141	Southeast End	Hanington Road	COL	0.0	0.0	0.0	3.2	1	99.8	100
Ana-034-020	Colonia Drive	141	230	89	Hanington Road	Hayden Place	COL	0.0	0.5	0.5	2.6	1	99.2	100
Ana-034-030	Colonia Drive	230	397	167	Hayden Place	Mackie Road	COL	0.0	3.4	3.4	2.8	1	96.1	100
Ana-034-040	Colonia Drive	397	490	93	Mackie Road	Malone Road	COL	0.7	6.5	7.1	3.5	2	84.3	99
Ana-034-050	Colonia Drive	490	575	85	Malone Road	Cameron Place	COL	1.4	2.2	3.6	2.3	1	86.4	99
Ana-034-060	Colonia Drive	575	658	83	Cameron Place	Therres Crescent	COL	2.1	1.8	3.9	1.9	1	84.0	99
Ana-034-070	Colonia Drive	658	751	93	Therres Crescent	Cameron Place	COL	1.7	4.1	5.9	2.1	1	84.0	98
Ana-034-080	Colonia Drive	751	840	89	Cameron Place	Therres Crescent	COL	1.6	3.7	5.4	2.2	1	83.7	97
Ana-034-090	Colonia Drive	840	991	151	Therres Crescent	Delcourt Avenue	COL	3.7	3.8	7.5	2.5	2	80.1	96
Ana-034-100	Colonia Drive	991	1089	98	Delcourt Avenue	Brown Drive / Walkem Road	COL	2.8	3.6	6.4	2.8	2	76.9	98
Ana-035-010	Cook Street	0	150	150	Cloke Road	Gilson Place	LOC	0.0	0.3	0.3	-	-	93.0	100
Ana-036-010	Craig Road	0	264	264	South End	Hillview Avenue	LOC	0.0	3.0	3.0	-	-	92.6	100
Ana-036-020	Craig Road	264	360	96	Hillview Avenue	Hillcrest Avenue	LOC	3.6	4.5	8.1	-	-	72.1	96
Ana-036-030	Craig Road	360	455	95	Hillcrest Avenue	Davis Road	LOC	0.0	9.7	9.7	-	-	87.0	99
Ana-037-010	Davidson Road	0	100	100	West End	McKinley Road	LOC	0.0	0.5	0.5	-	-	91.4	100
Ana-037-030	Davidson Road	100	170	70	McKinley Road	Carey Road	LOC	8.6	0.0	8.6	-	-	65.1	85
Ana-037-040	Davidson Road	170	401	231	Carey Road	Walkem Road	LOC	0.8	0.9	1.6	-	-	91.0	99
Ana-038-010	Davis Road	0	64	64	Baker Road	Farrell Road	COL	10.5	0.0	10.5	3.8	2	83.8	80
Ana-038-020	Davis Road	64	283	219	Farrell Road	Louise Road	COL	1.0	6.6	7.6	2.5	2	88.5	99
Ana-038-030	Davis Road	283	339	56	Louise Road	Russell Road	COL	6.1	9.8	15.9	3.7	4	58.9	86
Ana-038-040	Davis Road	339	438	99	Russell Road	McNiven Road	COL	1.1	9.8	10.9	2.8	4	72.2	99
Ana-038-050	Davis Road	438	538	100	McNiven Road	Craig Road	COL	5.4	7.4	12.8	3.3	3	66.7	93
Ana-038-060	Davis Road	538	750	212	Craig Road	Hall Road	COL	7.8	7.4	15.3	3.4	3	69.4	95
Ana-038-070	Davis Road	750	1166	416	Hall Road	Battie Drive	COL	6.7	2.9	9.6	2.5	4	63.1	92
Ana-038-080	Davis Road	1166	1416	250	Battie Drive	Battie Drive	COL	2.6	2.1	4.7	2.7	1	84.3	96
Ana-038-090	Davis Road	1416	1561	145	Battie Drive	Parkhill Terrace	COL	0.0	0.3	0.3	2.8	1	99.0	100
Ana-038-100	Davis Road	1561	1625	64	Parkhill Terrace	Dogwood Drive	COL	0.0	0.0	0.0	2.5	1	100.0	100
Ana-038-110	Davis Road	1625	1666	41	Dogwood Drive	Walker Avenue	COL	0.0	0.0	0.0	3.2	1	100.0	100

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Ana-038-120	Davis Road	1666	1915	249	Walker Avenue	Mylene Crescent	COL	0.0	0.2	0.2	2.9	1	99.8	100
Ana-038-130	Davis Road	1915	2004	89	Mylene Crescent	Chemainus Road	COL	0.4	0.6	1.0	3.0	2	95.6	100
Ana-039-010	De Frane Court	0	66	66	Southwest End	Delcourt Avenue	COL	0.0	1.6	1.6	2.0	0	97.3	100
Ana-040-010	Delcourt Avenue	0	76	76	Colonia Drive	Wallace Place	COL	2.5	2.4	4.9	4.9	2	80.5	95
Ana-040-020	Delcourt Avenue	76	150	74	Wallace Place	De Frane Court	COL	0.3	2.7	3.0	3.4	1	92.5	100
Ana-040-030	Delcourt Avenue	150	302	152	De Frane Court	Dunsmuir Crescent	COL	1.6	1.6	3.2	4.3	1	86.1	98
Ana-041-010	Dogwood Drive	0	110	110	Davis Road	Arbutus Crescent	COL	0.3	5.2	5.6	3.9	2	91.0	97
Ana-041-020	Dogwood Drive	110	373	263	Arbutus Crescent	Arbutus Crescent	COL	1.1	4.7	5.8	2.8	2	88.0	99
Ana-041-030	Dogwood Drive	373	1003	630	Arbutus Crescent	Holland Creek / Stephenson Street	COL	1.5	1.8	3.3	2.5	2	89.8	99
Ana-041-040	Dogwood Drive	1003	1526	523	Holland Creek / Stephenson Street	Gifford Road	COL	19.2	4.0	23.2	3.4	3	58.7	93
Ana-041-050	Dogwood Drive	1526	1637	111	Gifford Road	Belaire Street	COL	4.7	1.4	6.1	2.6	3	77.3	98
Ana-041-060	Dogwood Drive	1637	1782	145	Belaire Street	Bayview Avenue	COL	2.6	1.2	3.8	2.4	2	86.5	99
Ana-041-070	Dogwood Drive	1782	1880	98	Bayview Avenue	Forward Road	COL	2.4	2.4	4.8	2.8	2	83.9	99
Ana-041-080	Dogwood Drive	1880	1984	104	Forward Road	1st Avenue / Methuen Street	COL	13.4	2.7	16.0	4.1	2	68.7	88
Ana-042-010	Douglas Place	0	120	120	Douglas Place 1	Stirling Drive	COL	0.1	0.2	0.3	5.0	1	97.8	100
Ana-043-010	Douglas Place 1	0	58	58	South End	North End	COL	0.0	0.0	0.0	2.0	0	99.7	100
Ana-044-010	Dunsmuir Crescent	0	265	265	Malone Road	Bickle Drive	LOC	0.8	2.8	3.5	-	-	84.6	98
Ana-044-020	Dunsmuir Crescent	265	376	111	Bickle Drive	Delcourt Avenue	LOC	0.0	5.7	5.7	-	-	91.5	99
Ana-044-030	Dunsmuir Crescent	376	488	112	Delcourt Avenue	Coburn Place	LOC	1.3	3.0	4.3	-	-	83.7	97
Ana-044-040	Dunsmuir Crescent	488	528	40	Coburn Place	Stillin Drive / Symonds Street	LOC	0.0	0.0	0.0	-	-	99.5	100
Ana-046-010	Farrell Road	0	201	201	Southeast End	Stirling Drive	LOC	0.0	9.7	9.7	-	-	85.7	99
Ana-046-020	Farrell Road	201	374	173	Stirling Drive	Davis Road	LOC	0.4	0.0	0.4	-	-	96.2	100
Ana-047-010	Forrest Place	0	70	70	Southwest End	Cloke Road	LOC	1.3	3.5	4.8	-	-	77.9	98
Ana-048-010	Forward Road	0	119	119	Southeast End	Dogwood Drive	LOC	3.9	2.3	6.2	-	-	80.1	93
Ana-049-010	Fourmeaux Crescent	0	184	184	Halliday Place	Russell Road	LOC	0.0	0.0	0.0	-	-	99.7	100
Ana-050-010	French Street	0	134	134	6th Avenue	5th Avenue	LOC	0.0	4.4	4.4	-	-	93.0	100
Ana-050-020	French Street	134	268	134	5th Avenue	4th Avenue	LOC	2.8	4.2	7.0	-	-	78.8	98
Ana-050-030	French Street	268	400	132	4th Avenue	3rd Avenue	LOC	0.4	0.8	1.1	-	-	91.7	99
Ana-050-040	French Street	400	468	68	3rd Avenue	Northeast End	LOC	7.8	3.0	10.8	-	-	57.4	87
Ana-050-050	French Street	469	559	90	Southwest End	1st Avenue	LOC	3.3	2.6	5.9	-	-	69.7	94
Ana-050-060	French Street	559	647	88	1st Avenue	Northeast End	LOC	0.0	2.3	2.3	-	-	86.9	100
Ana-051-010	Gatacre Street	0	133	133	6th Avenue	5th Avenue	LOC	0.0	2.6	2.6	-	-	91.5	100
Ana-051-020	Gatacre Street	133	266	133	5th Avenue	4th Avenue	LOC	1.9	1.0	2.9	-	-	87.6	99
Ana-051-030	Gatacre Street	266	401	135	4th Avenue	3rd Avenue	LOC	3.4	2.5	5.9	-	-	81.9	97
Ana-051-040	Gatacre Street	402	473	71	Southwest End	2nd Avenue	LOC	17.0	0.0	17.0	-	-	59.7	92
Ana-051-050	Gatacre Street	473	559	86	2nd Avenue	Northeast End	LOC	0.6	1.2	1.8	-	-	91.2	100
Ana-051-060	Gatacre Street	560	699	139	1st Avenue	Esplanade Avenue	LOC	9.9	1.7	11.6	-	-	69.5	95
Ana-052-010	Gifford Road	0	153	153	Dogwood Drive	Bayview Avenue	LOC	7.8	0.8	8.6	-	-	75.7	89
Ana-052-020	Gifford Road	153	289	136	Bayview Avenue	Northeast End	LOC	0.0	3.3	3.3	-	-	88.7	99
Ana-053-010	Gill Road	0	95	95	Chemainus Road	Hawley Place	LOC	0.0	0.5	0.5	-	-	99.5	100
Ana-053-020	Gill Road	95	249	154	Hawley Place	North End	LOC	0.0	0.3	0.3	-	-	99.8	100

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Ana-054-010	Gilson Place	0	98	98	Cook Street	Southeast End	LOC	0.0	0.5	0.5	-	-	98.6	100
Ana-055-010	Giovando Way	0	135	135	Cloke Road	Northeast End	LOC	0.0	0.0	0.0	-	-	100.0	100
Ana-056-010	Gladden Road	0	314	314	Rocky Creek Road	East End	LOC	11.4	0.3	11.7	-	-	68.1	84
Ana-057-010	Glen Avenue	0	218	218	Chemainus Road	Blair Place	LOC	1.4	3.1	4.5	-	-	91.8	99
Ana-058-010	Gourlay Place	0	95	95	West End	Louise Road	LOC	0.0	0.0	0.0	-	-	100.0	100
Ana-059-010	Greenhorn Place	0	95	95	4th Avenue	Greenhorn Place 1	LOC	0.5	0.5	1.1	-	-	92.4	100
Ana-059-020	Greenhorn Place	95	210	115	Greenhorn Place 1	Northwest End	LOC	0.5	0.5	0.9	-	-	98.3	100
Ana-060-010	Greenhorn Place 1	0	51	51	Greenhorn Place	East End	LOC	0.0	2.0	2.0	-	-	96.9	100
Ana-061-010	Grouhel Road	0	225	225	Christie Road	East End	LOC	0.2	0.2	0.5	-	-	94.5	100
Ana-062-010	Hall Road	0	86	86	Hillcrest Avenue	Thetis Drive	LOC	0.0	0.6	0.6	-	-	91.8	100
Ana-062-020	Hall Road	86	141	55	Thetis Drive	Davis Road	LOC	0.0	7.7	7.7	-	-	87.5	99
Ana-062-030	Hall Road	141	252	111	Davis Road	Louise Road	LOC	0.0	0.0	0.0	-	-	100.0	100
Ana-063-010	Halliday Place	0	90	90	Russell Road	Fourmeaux Crescent	LOC	0.0	0.0	0.0	-	-	100.0	100
Ana-063-020	Halliday Place	90	214	124	Fourmeaux Crescent	Northeast End	LOC	0.0	0.0	0.0	-	-	99.9	100
Ana-064-010	Hambrook Street	0	58	58	Southwest End	Jamison Road	COL	0.0	3.8	3.8	3.0	0	94.4	100
Ana-064-020	Hambrook Street	58	279	221	Jamison Road	4th Avenue Extension	COL	0.2	2.4	2.6	2.3	0	94.8	100
Ana-065-010	Hanington Road	0	136	136	Northwest End	Colonia Drive	LOC	0.2	1.9	2.1	-	-	96.1	100
Ana-066-010	Hartley Place	0	174	174	Southwest End	4th Avenue Extension	LOC	0.0	0.3	0.3	-	-	98.3	100
Ana-067-010	Hawley Place	0	51	51	Northwest End	Gill Road	LOC	0.0	0.0	0.0	-	-	100.0	100
Ana-068-010	Hayden Place	0	54	54	Colonia Drive	Northeast End	LOC	0.0	0.0	0.0	-	-	100.0	100
Ana-069-010	High Street	0	135	135	6th Avenue	5th Avenue	COL	4.9	1.8	6.7	4.7	2	73.8	94
Ana-069-020	High Street	135	267	132	5th Avenue	4th Avenue	COL	5.1	2.4	7.5	4.7	2	72.2	93
Ana-069-030	High Street	267	402	135	4th Avenue	3rd Avenue	COL	1.9	3.2	5.1	4.0	2	82.5	97
Ana-069-040	High Street	402	534	132	3rd Avenue	2nd Avenue	COL	1.9	5.8	7.7	4.0	2	84.0	96
Ana-069-050	High Street	534	621	87	2nd Avenue	Market Lane	COL	1.7	6.2	7.9	3.4	2	88.0	99
Ana-069-060	High Street	621	669	48	Market Lane	1st Avenue	COL	6.7	0.5	7.2	5.2	2	78.5	94
Ana-069-070	High Street	669	808	139	1st Avenue	Esplanade Avenue	COL	11.2	2.8	14.0	4.3	3	67.8	90
Ana-070-010	Hillcrest Avenue	0	202	202	Hall Road	Craig Road	LOC	3.8	1.4	5.2	-	-	85.1	94
Ana-071-010	Hillside Avenue	0	214	214	Kitchener Street	Warren Street	LOC	0.9	0.5	1.4	-	-	91.8	99
Ana-072-010	Hillview Avenue	0	159	159	West End	Craig Road	LOC	16.8	4.8	21.6	-	-	53.8	71
Ana-073-010	Holland Creek	0	100	100	Southwest End	Dogwood Drive / Stephenson Street	LOC	0.0	0.0	0.0	-	-	99.5	100
Ana-074-010	Hooper Place	0	166	166	Russell Road	East End	LOC	7.5	2.2	9.7	-	-	72.6	93
Ana-075-010	Jamison Road	0	100	100	Hambrook Street	Root Street	LOC	0.8	1.0	1.8	-	-	90.4	100
Ana-075-020	Jamison Road	100	196	96	Root Street	Belaire Street	LOC	13.5	3.1	16.7	-	-	61.4	82
Ana-075-030	Jamison Road	196	296	100	Belaire Street	Northwest End	LOC	6.0	2.3	8.3	-	-	58.9	86
Ana-076-010	Jim Cram Drive	0	144	144	South End	Parks Place	COL	0.0	0.0	0.0	1.8	1	100.0	100
Ana-076-020	Jim Cram Drive	144	482	338	Parks Place	North End	COL	0.0	0.1	0.1	2.4	1	99.8	100
Ana-077-010	King Road	0	118	118	Chemainus Road	Roland Road	LOC	2.6	1.5	4.0	-	-	88.2	95
Ana-077-020	King Road	118	236	118	Roland Road	Roland Road	LOC	0.0	0.7	0.7	-	-	98.5	100
Ana-078-010	Kitchener Street	0	136	136	6th Avenue	5th Avenue	COL	23.3	1.4	24.7	3.3	2	54.4	66
Ana-078-020	Kitchener Street	136	268	132	5th Avenue	4th Avenue	COL	15.0	0.9	15.9	3.3	2	56.1	78

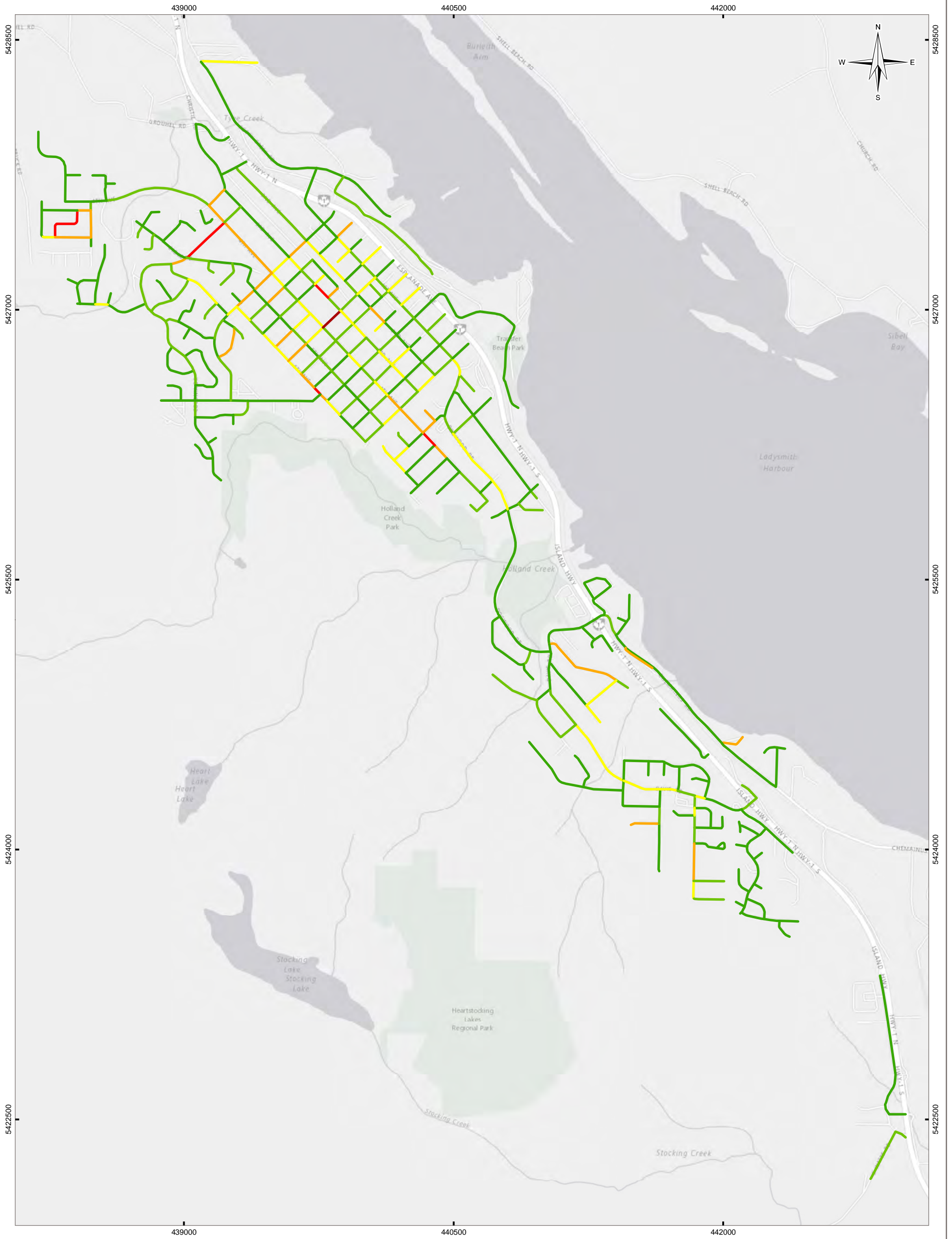
ElementID	Road	From	To	Length (m)	Street_From	Street_To	Class	AFCA %	TCA%	ACA %	IRI (mm/m)	RUT (mm)	PCI	PAVI
Ana-078-030	Kitchener Street	269	341	72	3rd Avenue	Hillside Avenue	COL	10.2	2.1	12.3	2.0	0	54.6	85
Ana-078-050	Kitchener Street	400	535	135	2nd Avenue	1st Avenue	COL	0.0	0.7	0.7	7.3	2	98.7	100
Ana-078-060	Kitchener Street	535	673	138	1st Avenue	Esplanade Avenue	COL	8.2	2.4	10.6	6.6	2	63.2	88
Ana-079-010	Lions Way	0	98	98	Belaire Street	Northwest End	LOC	2.5	3.3	5.8	-	-	75.6	97
Ana-080-010	Louise Road	0	136	136	Hall Road	Ashwell Place	LOC	0.0	0.8	0.8	-	-	97.7	100
Ana-080-020	Louise Road	136	224	88	Ashwell Place	Tassin Place	LOC	0.0	1.3	1.3	-	-	96.0	100
Ana-080-030	Louise Road	224	312	88	Tassin Place	McNiven Road	LOC	0.0	3.2	3.2	-	-	94.6	100
Ana-080-040	Louise Road	312	531	219	McNiven Road	Gourlay Place	LOC	0.0	1.1	1.1	-	-	97.5	100
Ana-080-050	Louise Road	531	625	94	Gourlay Place	Davis Road	LOC	0.0	2.2	2.2	-	-	92.2	100
Ana-081-010	Ludlow Road	0	162	162	1st Avenue	Rocky Creek Road	LOC	0.0	0.0	0.0	-	-	99.9	100
Ana-081-020	Ludlow Road	162	321	159	Rocky Creek Road	Oyster Bay	LOC	0.0	0.9	0.9	-	-	98.2	100
Ana-081-030	Ludlow Road	321	665	344	Oyster Bay	Southeast End	LOC	5.5	2.9	8.4	-	-	86.4	91
Ana-082-010	Mackie Road	0	214	214	Colonia Drive	Mackie Road 1	LOC	0.6	1.9	2.5	-	-	90.6	99
Ana-082-020	Mackie Road	214	354	140	Mackie Road 1	Malone Road	LOC	2.3	2.5	4.9	-	-	83.1	99
Ana-083-010	Mackie Road 1	0	49	49	South End	Mackie Road	LOC	0.0	1.1	1.1	-	-	98.7	100
Ana-084-010	Malone Road	0	110	110	West End	Sivers Road	COL	0.6	5.6	6.2	3.1	2	89.5	99
Ana-084-020	Malone Road	110	190	80	Sivers Road	Colonia Drive	COL	1.1	3.8	4.9	3.9	2	86.3	96
Ana-084-030	Malone Road	190	389	199	Colonia Drive	Dunsmuir Crescent	COL	0.8	0.9	1.7	2.7	1	89.9	99
Ana-084-040	Malone Road	389	483	94	Dunsmuir Crescent	Mackie Road	COL	0.5	1.8	2.4	2.4	1	90.0	99
Ana-084-050	Malone Road	483	900	417	Mackie Road	6th Avenue	COL	0.6	0.7	1.3	2.4	1	92.2	99
Ana-085-010	Maplewood Way	0	259	259	Birchwood Road	Cedarwood Road	LOC	47.4	0.9	48.3	-	-	33.3	34
Ana-086-010	Market Lane	0	103	103	High Street	Buller Street	LOC	3.1	4.3	7.4	-	-	78.7	98
Ana-087-010	McKinley Road	0	133	133	Davidson Road	Oliver Terrace	LOC	0.0	1.4	1.4	-	-	95.1	100
Ana-087-020	McKinley Road	133	337	204	Oliver Terrace	North End	LOC	0.5	3.7	4.2	-	-	92.7	100
Ana-088-010	McNiven Road	0	134	134	Davis Road	Louise Road	LOC	0.0	0.0	0.0	-	-	98.6	100
Ana-089-010	Methuen Street	0	133	133	6th Avenue	5th Avenue	COL	1.5	0.7	2.2	3.0	1	80.9	99
Ana-089-020	Methuen Street	133	266	133	5th Avenue	4th Avenue / 4th Avenue Extension	COL	6.1	1.8	7.9	4.2	2	65.5	91
Ana-089-030	Methuen Street	266	402	136	4th Avenue / 4th Avenue Extension	3rd Avenue	COL	1.0	1.8	2.8	3.4	3	83.6	99
Ana-089-040	Methuen Street	402	535	133	3rd Avenue	2nd Avenue	COL	5.6	2.0	7.6	2.2	3	65.6	96
Ana-089-050	Methuen Street	535	669	134	2nd Avenue	1st Avenue / Dogwood Drive	COL	2.1	3.7	5.8	2.0	3	76.2	97
Ana-089-060	Methuen Street	669	789	120	1st Avenue / Dogwood Drive	Northeast End	COL	0.3	3.7	4.0	4.2	1	87.0	98
Ana-090-010	Morgan Road	0	398	398	Northwest End	Southeast End	LOC	1.1	0.0	1.1	-	-	97.4	100
Ana-091-010	Mylene Crescent	0	49	49	South End	Strang Drive	LOC	0.0	0.0	0.0	-	-	98.9	100
Ana-091-020	Mylene Crescent	49	148	99	Strang Drive	Davis Road	LOC	0.0	0.0	0.0	-	-	99.5	100
Ana-092-010	Nash Place	0	109	109	Southwest End	Stillin Drive	LOC	3.2	1.6	4.8	-	-	84.7	94
Ana-093-010	Neville Street	0	217	217	Parkhill Terrace	Walker Avenue	LOC	7.5	5.1	12.6	-	-	63.4	92
Ana-094-010	Oakwood Road	0	151	151	Birchwood Road	Cedarwood Road	LOC	0.0	0.3	0.3	-	-	98.8	100
Ana-094-020	Oakwood Road	151	198	47	Cedarwood Road	4th Avenue	LOC	0.0	5.4	5.4	-	-	91.6	100
Ana-095-010	Oliver Terrace	0	113	113	Davidson Road	Poulain Road	LOC	0.0	0.5	0.5	-	-	99.5	100
Ana-095-020	Oliver Terrace	113	229	116	Poulain Road	McKinley Road	LOC	0.0	0.5	0.5	-	-	99.5	100
Ana-096-010	Oyster Bay	0	818	818	Ludlow Road	PCH	LOC	8.0	0.4	8.5	-	-	70.8	84

ElementID	Road	From	To	Length (m)	Street_From	Street_To	Class	AFCA %	TCA%	ACA %	IRI (mm/m)	RUT (mm)	PCI	PAVI
Ana-098-010	Parkhill Terrace	0	122	122	Southeast End	Neville Street	LOC	13.2	2.8	16.0	-	-	55.6	79
Ana-098-020	Parkhill Terrace	122	434	312	Neville Street	Davis Road	LOC	0.0	3.1	3.1	-	-	93.5	100
Ana-099-010	Parks Place	0	82	82	Jim Cram Drive	East End	LOC	0.0	0.0	0.0	-	-	100.0	100
Ana-100-020	Peerless Road	384	535	151	Westdown Road	East End	LOC	0.0	0.0	0.0	-	-	90.4	97
Ana-101-010	Poulain Road	0	62	62	Northwest End	Oliver Terrace	LOC	0.0	0.0	0.0	-	-	100.0	100
Ana-102-010	Resolution Place	0	122	122	Southeast End	Cook Street	LOC	0.0	0.0	0.0	-	-	93.7	100
Ana-103-010	Ridgway Place	0	256	256	Russell Road	West End	LOC	0.5	2.4	2.9	-	-	90.7	99
Ana-104-010	Rigby Place	0	82	82	Belaire Street	Northwest End	LOC	14.5	3.7	18.1	-	-	48.2	88
Ana-105-010	Roberts Street	0	133	133	6th Avenue	5th Avenue	COL	0.0	0.0	0.0	2.9	2	98.9	100
Ana-105-020	Roberts Street	133	266	133	5th Avenue	4th Avenue	COL	0.0	0.0	0.0	3.7	2	99.5	100
Ana-105-030	Roberts Street	266	401	135	4th Avenue	3rd Avenue	COL	5.1	3.1	8.1	5.2	2	72.5	93
Ana-105-040	Roberts Street	401	535	134	3rd Avenue	2nd Avenue	COL	4.0	1.4	5.4	4.6	4	72.7	96
Ana-105-050	Roberts Street	535	668	133	2nd Avenue	1st Avenue	COL	0.4	1.1	1.4	5.0	2	90.3	99
Ana-105-060	Roberts Street	668	807	139	1st Avenue	Boulevard	COL	0.2	1.4	1.6	4.2	2	96.1	99
Ana-106-010	Rocky Creek Road	0	942	942	Ludlow Road	Gladden Road	LOC	0.0	0.1	0.1	-	-	98.6	100
Ana-107-010	Roland Road	0	274	274	King Road	King Road	LOC	0.3	5.6	5.8	-	-	88.9	99
Ana-108-010	Root Street	0	221	221	Jamison Road	4th Avenue Extension	LOC	0.2	2.5	2.8	-	-	95.4	99
Ana-109-010	Rothdale Road	0	170	170	Russell Road	East End	LOC	2.3	2.6	4.9	-	-	80.2	97
Ana-110-010	Russell Road	0	100	100	Hooper Place	Rothdale Road	COL	16.5	2.1	18.5	2.3	2	62.9	90
Ana-110-020	Russell Road	100	308	208	Rothdale Road	Ridgway Place	COL	22.0	1.3	23.3	2.8	2	46.7	72
Ana-110-030	Russell Road	308	396	88	Ridgway Place	Halliday Place	COL	2.4	7.9	10.3	4.1	2	84.0	93
Ana-110-040	Russell Road	396	463	67	Halliday Place	Ballou Place	COL	4.0	8.9	12.9	4.2	3	71.9	88
Ana-110-050	Russell Road	463	505	42	Ballou Place	Fourmeaux Crescent	COL	2.4	7.0	9.4	5.5	2	69.4	93
Ana-110-060	Russell Road	505	572	67	Fourmeaux Crescent	Davis Road	COL	3.4	6.4	9.8	3.8	2	74.0	90
Ana-111-010	Ryan Place	0	288	288	Battie Drive	Northwest End	LOC	1.5	3.3	4.8	-	-	81.9	97
Ana-112-010	Sanderson Road	0	133	133	Stirling Drive	Spurling Crescent	LOC	0.0	0.0	0.0	-	-	99.3	100
Ana-112-020	Sanderson Road	133	219	86	Spurling Crescent	Sweetenham Place	LOC	0.0	0.0	0.0	-	-	100.0	100
Ana-112-030	Sanderson Road	219	323	104	Sweetenham Place	East End	LOC	0.0	0.0	0.0	-	-	99.8	100
Ana-113-010	Schubert Place	0	60	60	West End	Stirling Drive	LOC	0.0	0.0	0.0	-	-	100.0	100
Ana-114-010	Selinger Place	0	152	152	Stirling Drive	North End	LOC	0.0	0.0	0.0	-	-	99.2	100
Ana-115-010	Sharp Place	0	70	70	Symonds Street	Northwest End	LOC	0.0	0.8	0.8	-	-	99.2	100
Ana-116-010	Short Close	0	80	80	South End	Cloke Road	LOC	3.0	5.6	8.6	-	-	80.9	98
Ana-117-010	Sivers Road	0	141	141	Malone Road	Northwest End	LOC	0.0	0.8	0.8	-	-	97.4	100
Ana-118-010	Snaith Place	0	54	54	Northwest End	Stirling Drive	LOC	0.0	0.0	0.0	-	-	100.0	100
Ana-119-010	South Watts Road	100	462	362		East End	LOC	0.6	0.5	1.1	-	-	77.0	90
Ana-120-010	Spurling Crescent	0	170	170	Stirling Drive	Sanderson Road	LOC	0.0	0.3	0.3	-	-	99.4	100
Ana-121-010	Steele Place	0	47	47	Stirling Drive	Southeast End	LOC	0.0	0.0	0.0	-	-	100.0	100
Ana-122-010	Stephenson Street	0	68	68	Dogwood Drive / Holland Creek	Clarke Road	COL	0.0	12.0	12.0	4.1	1	87.5	94
Ana-122-020	Stephenson Street	68	166	98	Clarke Road	Bayview Avenue	COL	0.1	5.1	5.2	4.3	2	91.8	97
Ana-122-030	Stephenson Street	166	219	53	Bayview Avenue	Northeast End	COL	0.4	0.3	0.7	2.0	0	96.4	100
Ana-123-010	Stevens Place	0	59	59	Stirling Drive	Northeast End	LOC	0.0	1.8	1.8	-	-	96.7	100



ElementID	Road	From	To	Length (m)	Street_From	Street_To	Class	AFCA %	TCA%	ACA %	IRI (mm/m)	RUT (mm)	PCI	PAVI
Ana-124-010	Stillin Drive	0	89	89	Dunsmuir Crescent / Symonds Street	Nash Place	LOC	1.8	3.7	5.5	-	-	92.3	98
Ana-124-020	Stillin Drive	89	299	210	Nash Place	Brown Drive	LOC	10.2	0.2	10.4	-	-	69.2	89
Ana-124-030	Stillin Drive	299	442	143	Brown Drive	Walkem Road	LOC	10.0	0.4	10.4	-	-	72.1	87
Ana-125-010	Stirling Drive	0	47	47	South End	Snaith Place	COL	0.0	1.1	1.1	5.4	2	97.3	99
Ana-125-030	Stirling Drive	47	91	44	Snaith Place	Spurling Crescent	COL	0.0	0.0	0.0	4.9	2	96.6	100
Ana-125-040	Stirling Drive	91	133	42	Spurling Crescent	Selinger Place	COL	0.0	2.1	2.1	4.2	2	96.3	99
Ana-125-050	Stirling Drive	133	184	51	Selinger Place	Steele Place	COL	0.0	0.5	0.5	4.6	2	98.6	100
Ana-125-060	Stirling Drive	184	332	148	Steele Place	Stevens Place	COL	0.0	1.0	1.0	4.8	2	98.1	100
Ana-125-070	Stirling Drive	332	416	84	Stevens Place	Schubert Place	COL	0.0	0.2	0.2	3.4	2	99.3	100
Ana-125-080	Stirling Drive	416	509	93	Schubert Place	Douglas Place	COL	0.0	0.9	0.9	4.6	2	97.4	100
Ana-125-090	Stirling Drive	509	565	56	Douglas Place	Farrell Road	COL	0.0	0.0	0.0	6.6	1	98.3	100
Ana-126-010	Strang Drive	0	149	149	Southeast End	Mylene Crescent	LOC	0.4	0.0	0.4	-	-	88.6	99
Ana-127-010	Strathcona Road	0	94	94	Christie Road	2nd Avenue	LOC	0.0	0.0	0.0	-	-	100.0	100
Ana-127-020	Strathcona Road	94	157	63	2nd Avenue	Northeast End	LOC	0.0	6.5	6.5	-	-	91.8	100
Ana-128-010	Stuart Place	0	140	140	Brown Drive	Northwest End	LOC	0.4	0.8	1.1	-	-	86.9	99
Ana-129-010	Sweetenham Place	0	113	113	Southeast End	Sanderson Road	LOC	0.0	0.0	0.0	-	-	99.5	100
Ana-130-010	Symonds Street	0	66	66	Dunsmuir Crescent / Stillin Drive	6th Avenue	COL	7.5	0.0	7.5	3.3	2	67.1	89
Ana-130-020	Symonds Street	66	201	135	6th Avenue	5th Avenue / Cloke Road	COL	16.1	0.3	16.4	4.6	4	46.0	77
Ana-130-040	Symonds Street	201	337	136	5th Avenue / Cloke Road	4th Avenue	COL	8.6	2.4	11.0	4.9	6	45.8	87
Ana-130-050	Symonds Street	337	467	130	4th Avenue	3rd Avenue	COL	3.8	0.6	4.4	3.8	4	63.3	93
Ana-130-060	Symonds Street	467	601	134	3rd Avenue	2nd Avenue	COL	6.6	1.7	8.2	6.3	4	52.5	89
Ana-130-070	Symonds Street	601	736	135	2nd Avenue	1st Avenue	COL	0.7	2.8	3.5	5.6	4	85.3	98
Ana-130-080	Symonds Street	736	825	89	1st Avenue	Northeast End	COL	0.0	0.0	0.0	4.7	1	99.5	100
Ana-131-010	Tassin Place	0	72	72	South End	Louise Road	LOC	0.0	0.0	0.0	-	-	99.3	100
Ana-132-010	Taylor	0	119	119	Southwest End	Cloke Road	LOC	1.7	2.2	3.9	-	-	84.7	99
Ana-133-010	Therres Crescent	0	277	277	Colonia Drive	Colonia Drive	LOC	0.9	1.7	2.6	-	-	87.3	99
Ana-134-010	Thetis Drive	0	415	415	Northwest End	Battie Drive 1	LOC	0.0	0.1	0.1	-	-	99.9	100
Ana-134-020	Thetis Drive	415	635	220	Battie Drive 1	Hall Road	LOC	0.0	1.7	1.7	-	-	97.5	100
Ana-136-010	Transfer Beach Boulevard	0	359	359	Esplanade Avenue / Roberts Street	Oyster Bay	LOC	0.0	0.0	0.0	-	-	99.8	100
Ana-136-020	Transfer Beach Boulevard	359	569	210	Oyster Bay	Captain Tristan de Konnick Way	LOC	0.0	0.0	0.0	-	-	99.2	100
Ana-137-010	Tyrrell Road	0	190	190	Southeast End	Chemainus Road	LOC	15.3	1.4	16.7	-	-	40.1	75
Ana-138-010	Walkem Road	0	56	56	Brown Drive / Colonia Drive	Davidson Road	COL	3.8	1.8	5.6	4.7	1	83.7	92
Ana-138-020	Walkem Road	56	407	351	Davidson Road	Stillin Drive	COL	2.1	2.5	4.6	2.7	2	84.3	99
Ana-138-030	Walkem Road	407	502	95	Stillin Drive	Cloke Road	COL	13.2	1.6	14.8	3.9	4	45.8	80
Ana-138-040	Walkem Road	502	790	288	Cloke Road	4th Avenue	COL	37.8	0.8	38.7	3.8	5	33.0	55
Ana-138-050	Walkem Road	790	916	126	4th Avenue	3rd Avenue	COL	4.6	0.5	5.1	4.0	2	81.1	93
Ana-139-010	Walker Avenue	0	446	446	Davis Road	Neville Street	LOC	13.7	3.1	16.8	-	-	53.9	86
Ana-139-020	Walker Avenue	446	523	77	Neville Street	Southeast End	LOC	2.3	1.8	4.1	-	-	74.4	96
Ana-140-010	Wallace Place	0	167	167	Delcourt Avenue	Northeast End	LOC	0.0	1.2	1.2	-	-	98.3	100
Ana-141-010	Warren Street	0	133	133	6th Avenue	5th Avenue	LOC	3.3	2.6	5.9	-	-	73.7	96
Ana-141-020	Warren Street	133	267	134	5th Avenue	4th Avenue	LOC	15.4	1.9	17.3	-	-	49.7	73

ElementID	Road	From	To	Length (m)	Street_From	Street_To	Class	AFCA %	TCA%	ACA %	IRI (mm/m)	RUT (mm)	PCI	PAVI
Ana-141-030	Warren Street	267	398	131	4th Avenue	3rd Avenue	LOC	0.2	1.5	1.7	-	-	96.0	100
Ana-141-040	Warren Street	398	483	85	3rd Avenue	Hillside Avenue	LOC	3.9	2.2	6.1	-	-	79.9	97
Ana-141-050	Warren Street	484	614	130	Southwest End	1st Avenue	LOC	0.0	0.9	0.9	-	-	97.9	100
Ana-141-060	Warren Street	614	729	115	1st Avenue	Northeast End	LOC	25.9	0.4	26.3	-	-	46.7	61
Ana-142-010	Westdown Road	0	735	735	Peerless Road	North End	LOC	0.2	0.0	0.2	-	-	98.6	100
Ana-143-010	White Street	0	134	134	6th Avenue	5th Avenue	LOC	0.0	0.8	0.8	-	-	99.1	100
Ana-143-020	White Street	134	267	133	5th Avenue	4th Avenue	LOC	6.2	2.1	8.3	-	-	75.3	97
Ana-143-030	White Street	267	402	135	4th Avenue	3rd Avenue	LOC	0.4	1.0	1.4	-	-	90.8	99
Ana-143-040	White Street	402	534	132	3rd Avenue	2nd Avenue	LOC	0.8	0.8	1.5	-	-	93.8	100
Ana-143-050	White Street	534	669	135	2nd Avenue	1st Avenue	LOC	2.0	0.4	2.4	-	-	88.5	97
Ana-143-060	White Street	669	793	124	1st Avenue	Northeast End	LOC	0.0	1.2	1.2	-	-	94.1	100
Ana-144-010	Wilrose Place	0	148	148	Southwest End	Cloke Road	LOC	3.4	2.6	6.0	-	-	78.2	95
Ana-145-010	Woodley Road	0	134	134	Chemainus Road	Northeast End	LOC	19.7	2.4	22.1	-	-	46.1	67



**LEGEND**

- 2015 PCI**
- 86 - 100
  - 71 - 85
  - 56 - 70
  - 41 - 55
  - 26 - 40
  - 11 - 25
  - 0 - 10

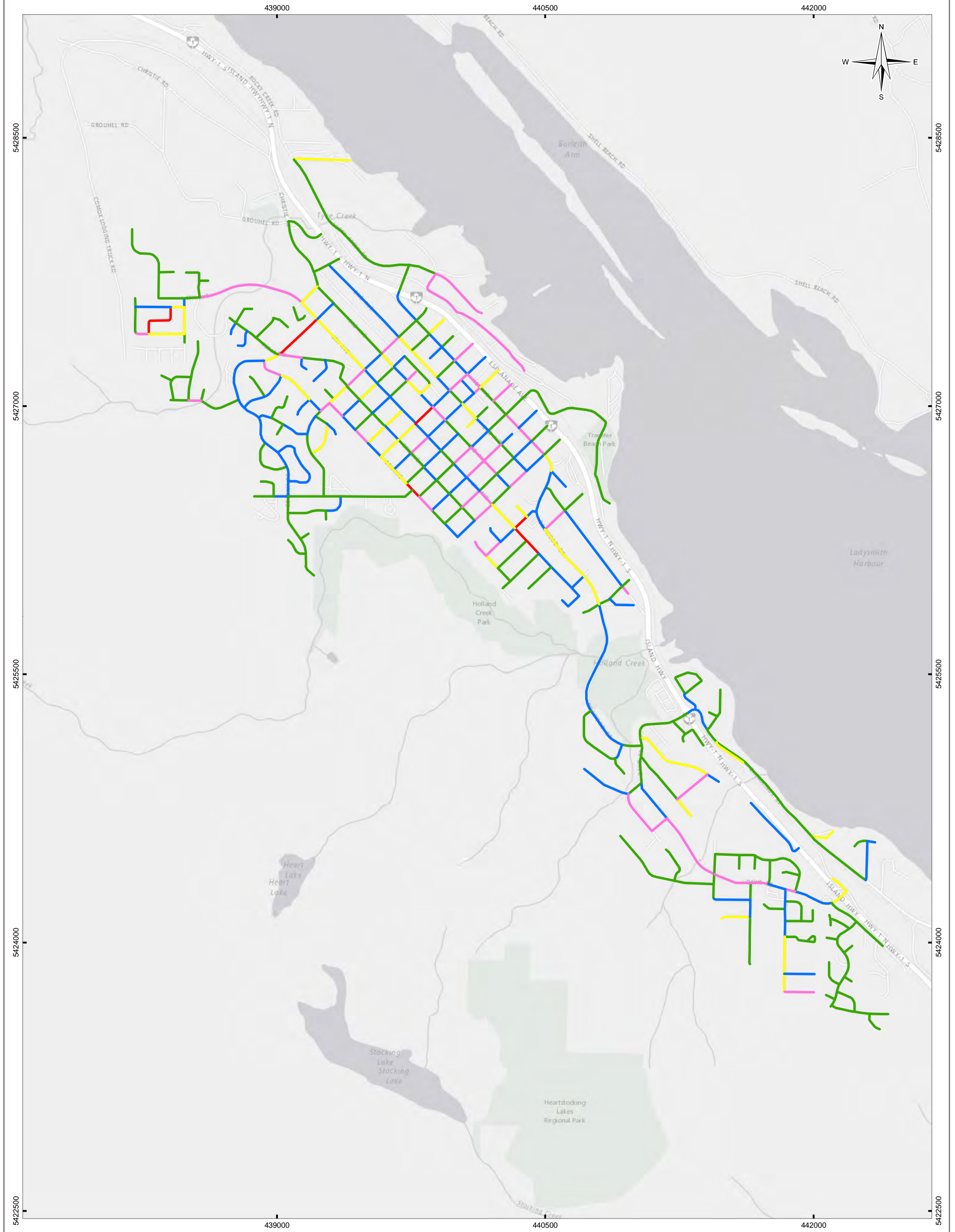
**NOTES**  
Base data source: ESRI Basemaps, 2015

**STATUS**  
ISSUED FOR USE

**PAVEMENT MANAGEMENT PLAN**

**2015 PCI Condition**

<b>PROJECTION</b> UTM Zone 10		<b>DATUM</b> NAD83		<b>CLIENT</b> Town of Ladysmith	
Scale: 1:20,000					
<b>FILE NO.</b> V33303118-01_Figure-B1_PCI.mxd					
<b>PROJECT NO.</b> 704-V33303118-01	<b>DWN</b> MR	<b>CKD</b> YL	<b>APVD</b> KR	<b>REV</b> 0	<b>Tt</b> TETRA TECH EBA
<b>OFFICE</b> TtEBA-VANC	<b>DATE</b> August 20, 2015				
					<b>Figure B1</b>



**LEGEND**

- 2015 AFCA**
- < 1% (Very Good)
  - 1 - 5% (Good)
  - 5 - 10% (Fair)
  - 10 - 30% (Poor)
  - 30 - 100% (Very Poor)

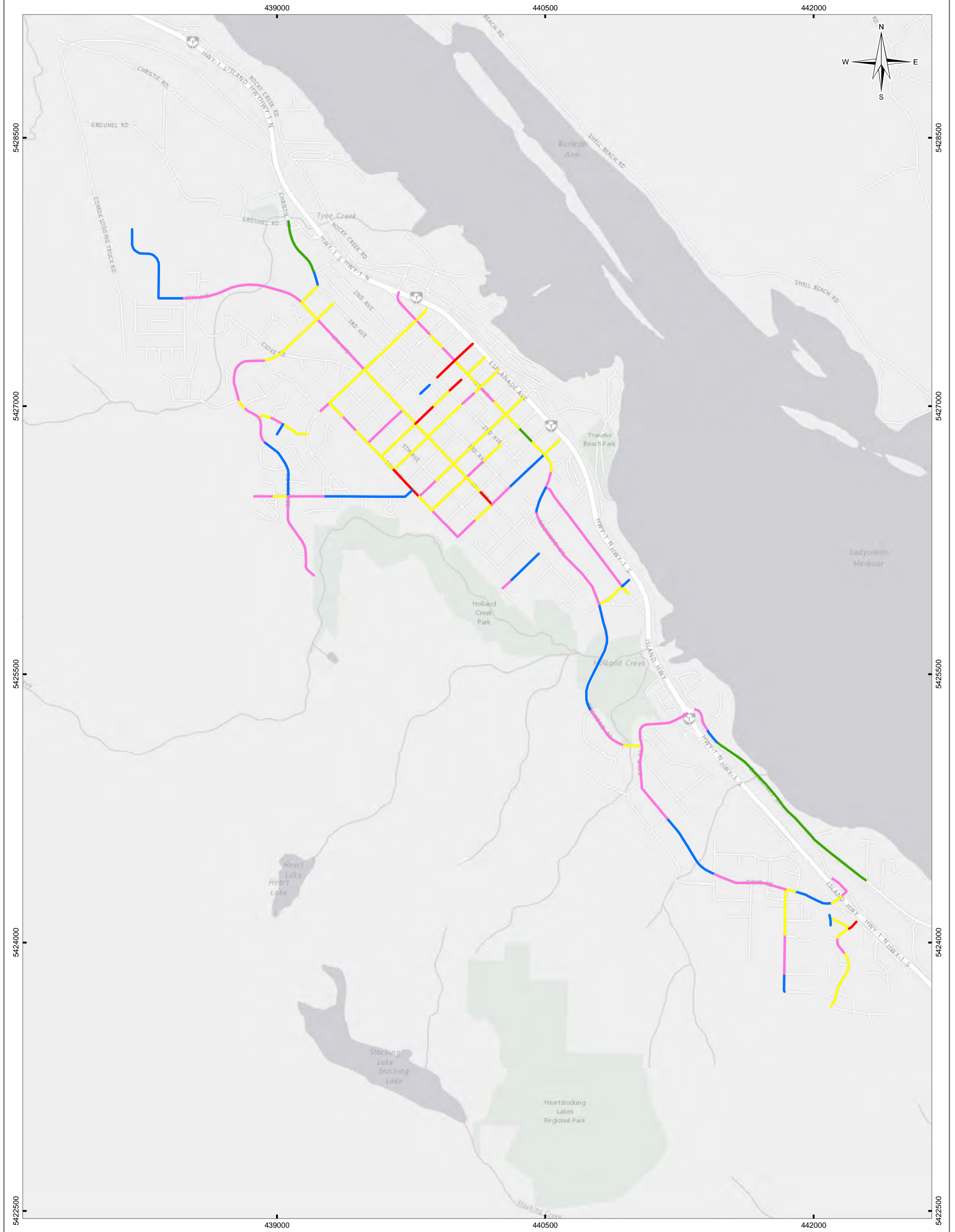
**NOTES**  
Base data source: ESRI Basemaps, 2015

**PAVEMENT MANAGEMENT PLAN**

**2015 AFCA Condition**

<b>PROJECTION</b> UTM Zone 10		<b>DATUM</b> NAD83		<b>CLIENT</b> Town of Ladysmith	
Scale: 1:20,000					
<b>FILE NO.</b> V33303118-01_Figure-B2_AFCA.mxd					
<b>PROJECT NO.</b> 704-V33303118-01		<b>DWN</b> MR	<b>CKD</b> YL	<b>APVD</b> KR	<b>REV</b> 0
<b>OFFICE</b> TlEBA-VANC			<b>DATE</b> August 20, 2015		
<b>STATUS</b> ISSUED FOR USE					<b>Figure B2</b>





**LEGEND**

- 2015 IRI (mm/m)**
- < 1.8
  - 1.9 - 2.5
  - 2.6 - 3.5
  - 3.6 - 6.5
  - > 6.5

**NOTES**  
Base data source: ESRI Basemaps, 2015

**PAVEMENT MANAGEMENT PLAN**

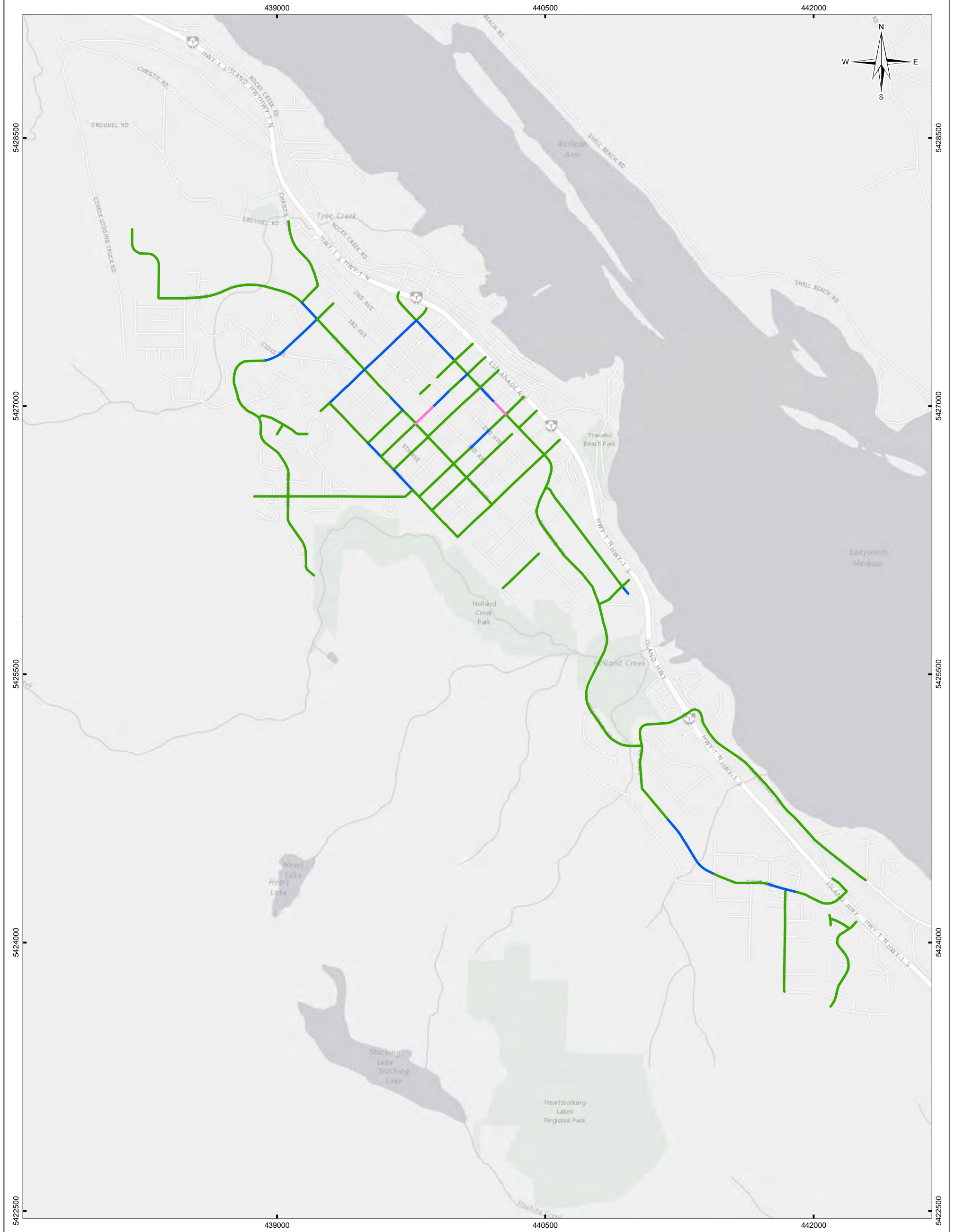
**2015 IRI Condition (Collector Roads)**

<b>PROJECTION</b> UTM Zone 10		<b>DATUM</b> NAD83		<b>CLIENT</b> <b>Town of Ladysmith</b>
Scale: 1:20,000				
<b>FILE NO.</b> V33303118-01_Figure-B3_IRI.mxd				
<b>PROJECT NO.</b> 704-V33303118-01	<b>DWN</b> MR	<b>CKD</b> YL	<b>APVD</b> KR	<b>REV</b> 0
<b>OFFICE</b> TlEBA-VANC	<b>DATE</b> August 20, 2015			



**Figure B3**

**STATUS**  
ISSUED FOR USE



**LEGEND**

**2015 RUT (mm)**

- 0 - 3
- 4 - 6
- 7 - 12
- 13 - 25
- > 25

**NOTES**  
Base data source: ESRI Basemaps, 2015

**PAVEMENT MANAGEMENT PLAN**

**2015 Rut Condition (Collector Roads)**

<b>PROJECTION</b> UTM Zone 10		<b>DATUM</b> NAD83		<b>CLIENT</b> Town of Ladysmith	
Scale: 1:20,000					
<b>FILE NO.</b> V33303118-01_Figure-B4_Rut.mxd					
<b>PROJECT NO.</b> 704-V33303118-01		<b>DWN</b> MR	<b>CKD</b> YL	<b>APVD</b> KR	<b>REV</b> 0
<b>OFFICE</b> TlEBA-VANC			<b>DATE</b> August 20, 2015		
<b>Figure B4</b>					

**STATUS**  
ISSUED FOR USE





# APPENDIX C

## REHABILITATION PROGRAM

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Priority List

Ten Year Rehabilitation Program Spreadsheet

GIS Map - 5 Year Paving Program



ElementID	Road	From	To	Length (m)	Street_From	Street_To	Class	PCI	Ranking 1 _PCI	AFCA (%)	AADT (vehicle/day)	Benefit2= AFCA * SQRT (AADT)	Ranking 2_Benefit2
Ana-138-040	Walkem Road	502	790	288	Cloke Road	4th Avenue	COL	33.0	4	37.8	2499	1891.0	1
Ana-007-040	6th Avenue	311	363	52	Roberts Street	Malone Road	COL	41.8	8	31.7	2499	1585.7	2
Ana-007-050	6th Avenue	363	415	52	Malone Road	Gatacre Street	COL	28.9	3	30.8	2499	1537.2	3
Ana-023-030	Buller Street	267	402	135	4th Avenue	3rd Avenue	COL	22.0	1	30.4	2499	1522.1	4
Ana-078-010	Kitchener Street	0	136	136	6th Avenue	5th Avenue	COL	54.4	32	23.3	2499	1165.2	5
Ana-130-020	Symonds Street	66	201	135	6th Avenue	5th Avenue / Cloke Road	COL	46.0	14	16.1	5030	1144.3	6
Ana-110-020	Russell Road	100	308	208	Rothdale Road	Ridgway Place	COL	46.7	17	22.0	2499	1099.3	7
Ana-085-010	Maplewood Way	0	259	259	Birchwood Road	Cedarwood Road	LOC	33.3	5	47.4	499	1058.5	8
Ana-041-040	Dogwood Drive	1003	1526	523	Holland Creek / Stephenson Street	Gifford Road	COL	58.7	41	19.2	2499	961.8	9
Ana-029-010	Christie Road	0	124	124	4th Avenue	3rd Avenue	COL	48.2	21	18.8	2499	937.6	10
Ana-004-110	4th Avenue	1039	1425	386	Symonds Street	Walkem Road	COL	49.5	24	16.8	3050	926.2	11
Ana-005-030	4th Avenue Extension	458	558	100	Hambrook Street	Root Street	LOC	49.6	25	38.0	499	848.9	12
Ana-017-030	Belaire Street	222	316	94	4th Avenue Extension	Rigby Place	LOC	54.8	34	37.3	499	832.2	13
Ana-110-010	Russell Road	0	100	100	Hooper Place	Rothdale Road	COL	62.9	54	16.5	2499	823.8	14
Ana-005-040	4th Avenue Extension	558	653	95	Root Street	Belaire Street	LOC	33.5	6	34.5	499	770.1	15
Ana-078-020	Kitchener Street	136	268	132	5th Avenue	4th Avenue	COL	56.1	38	15.0	2499	749.4	16
Ana-007-060	6th Avenue	415	519	104	Gatacre Street	High Street	COL	47.5	19	14.9	2499	744.2	17
Ana-004-120	4th Avenue	1425	1552	127	Walkem Road	Christie Road / Cook Street	COL	43.7	10	17.0	1750	710.3	18
Ana-023-020	Buller Street	136	267	131	5th Avenue	4th Avenue	COL	56.6	39	13.4	2499	672.2	19
Ana-041-080	Dogwood Drive	1880	1984	104	Forward Road	1st Avenue / Methuen Street	COL	68.7	75	13.4	2499	667.7	20
Ana-138-030	Walkem Road	407	502	95	Stillin Drive	Cloke Road	COL	45.8	13	13.2	2499	659.3	21
Ana-023-010	Buller Street	0	136	136	6th Avenue	5th Avenue	COL	49.4	23	12.3	2499	613.2	22
Ana-130-040	Symonds Street	201	337	136	5th Avenue / Cloke Road	4th Avenue	COL	45.8	12	8.6	5030	612.0	23
Ana-005-050	4th Avenue Extension	653	837	184	Belaire Street	4th Avenue / Methuen Street	LOC	47.0	18	26.7	499	595.5	24
Ana-003-080	3rd Avenue	723	828	105	Kitchener Street	French Street	LOC	27.5	2	26.0	499	580.9	25
Ana-141-060	Warren Street	614	729	115	1st Avenue	Northeast End	LOC	46.7	16	25.9	499	577.9	26
Ana-007-070	6th Avenue	519	620	101	High Street	Buller Street	COL	61.2	50	11.4	2499	568.3	27
Ana-069-070	High Street	669	808	139	1st Avenue	Esplanade Avenue	COL	67.8	70	11.2	2499	560.8	28
Ana-012-010	Baker Road	0	150	150	Davis Road	Northwest End	COL	81.4	154	11.1	2499	554.1	29
Ana-004-010	4th Avenue	0	104	104	4th Avenue Extension / Methuen Street	White Street	COL	48.6	22	9.8	3050	540.1	30
Ana-027-020	Cedarwood Road	198	272	74	Maplewood Way	Alderwood Drive	LOC	43.7	9	24.1	499	539.1	31
Ana-130-010	Symonds Street	0	66	66	Dunsmuir Crescent / Stillin Drive	6th Avenue	COL	67.1	66	7.5	5030	533.5	32
Ana-038-010	Davis Road	0	64	64	Baker Road	Farrell Road	COL	83.8	167	10.5	2499	527.2	33
Ana-078-030	Kitchener Street	269	341	72	3rd Avenue	Hillside Avenue	COL	54.6	33	10.2	2499	511.4	34
Ana-002-080	2nd Avenue	723	1034	311	Kitchener Street	Symonds Street	LOC	59.8	48	22.1	499	492.8	35
Ana-019-010	Bickle Drive	0	204	204	Dunsmuir Crescent	Coburn Place	LOC	45.3	11	22.0	499	491.8	36
Ana-130-060	Symonds Street	467	601	134	3rd Avenue	2nd Avenue	COL	52.5	28	6.6	5030	466.4	37
Ana-145-010	Woodley Road	0	134	134	Cheminus Road	Northeast End	LOC	46.1	15	19.7	499	439.7	38
Ana-007-110	6th Avenue	932	1036	104	Warren Street	Symonds Street	COL	69.6	82	8.4	2499	422.3	39
Ana-007-090	6th Avenue	726	829	103	Kitchener Street	French Street	COL	63.5	61	8.3	2499	412.5	40
Ana-078-060	Kitchener Street	535	673	138	1st Avenue	Esplanade Avenue	COL	63.2	57	8.2	2499	410.3	41
Ana-016-010	Bayview Avenue	0	53	53	Southeast End	Stephenson Street	COL	80.7	150	8.1	2499	405.5	42
Ana-038-060	Davis Road	538	750	212	Craig Road	Hall Road	COL	69.4	79	7.8	2499	391.3	43
Ana-051-040	Gatacre Street	402	473	71	Southwest End	2nd Avenue	LOC	59.7	46	17.0	499	380.2	44
Ana-072-010	Hillview Avenue	0	159	159	West End	Craig Road	LOC	53.8	30	16.8	499	375.7	45

ElementID	Road	From	To	Length (m)	Street_From	Street_To	Class	PCI	Ranking 1 _PCI	AFCA (%)	AADT (vehicle/day)	Benefit2= AFCA * SQRT (AADT)	Ranking 2_Benefit2
Ana-007-030	6th Avenue	207	311	104	Baden-Powell Street	Roberts Street	COL	60.6	49	7.0	2499	351.0	46
Ana-141-020	Warren Street	133	267	134	5th Avenue	4th Avenue	LOC	49.7	26	15.4	499	343.7	47
Ana-137-010	Tyrrell Road	0	190	190	Southeast End	Chemainus Road	LOC	40.1	7	15.3	499	341.2	48
Ana-020-020	Birchwood Road	69	268	199	Maplewood Way	Alderwood Drive	LOC	55.0	35	15.1	499	337.3	49
Ana-038-070	Davis Road	750	1166	416	Hall Road	Battie Drive	COL	63.1	56	6.7	2499	335.4	50
Ana-069-060	High Street	621	669	48	Market Lane	1st Avenue	COL	78.5	139	6.7	2499	332.9	51
Ana-104-010	Rigby Place	0	82	82	Belaire Street	Northwest End	LOC	48.2	20	14.5	499	323.3	52
Ana-023-060	Buller Street	622	669	47	Market Lane	1st Avenue	COL	68.9	76	6.2	2499	308.3	53
Ana-001-010	1st Avenue	0	104	104	Dogwood Drive / Methuen Street	White Street	COL	75.6	112	6.1	2499	306.4	54
Ana-038-030	Davis Road	283	339	56	Louise Road	Russell Road	COL	58.9	43	6.1	2499	306.2	55
Ana-139-010	Walker Avenue	0	446	446	Davis Road	Neville Street	LOC	53.9	31	13.7	499	305.6	56
Ana-089-020	Methuen Street	133	266	133	5th Avenue	4th Avenue / 4th Avenue Extension	COL	65.5	63	6.1	2499	304.6	57
Ana-105-030	Roberts Street	266	401	135	4th Avenue	3rd Avenue	COL	72.5	98	5.1	3620	304.6	58
Ana-075-020	Jamison Road	100	196	96	Root Street	Belaire Street	LOC	61.4	53	13.5	499	302.5	59
Ana-098-010	Parkhill Terrace	0	122	122	Southeast End	Neville Street	LOC	55.6	37	13.2	499	294.5	60
Ana-023-050	Buller Street	533	622	89	2nd Avenue	Market Lane	COL	70.0	84	5.8	2499	287.6	61
Ana-089-040	Methuen Street	402	535	133	3rd Avenue	2nd Avenue	COL	65.6	64	5.6	2499	281.9	62
Ana-002-050	2nd Avenue	408	519	111	Gatacre Street	High Street	LOC	52.8	29	12.6	499	281.7	63
Ana-004-070	4th Avenue	623	727	104	Buller Street	Kitchener Street	COL	67.7	69	5.0	3050	275.9	64
Ana-011-030	Baden-Powell Street	269	403	134	4th Avenue	3rd Avenue	COL	72.0	91	5.5	2499	274.1	65
Ana-038-050	Davis Road	438	538	100	McNiven Road	Craig Road	COL	66.7	65	5.4	2499	268.7	66
Ana-001-030	1st Avenue	206	311	105	Baden-Powell Street	Roberts Street	COL	77.1	127	5.4	2499	267.8	67
Ana-130-050	Symonds Street	337	467	130	4th Avenue	3rd Avenue	COL	63.3	58	3.8	5030	267.7	68
Ana-008-020	Alderwood Drive	48	198	150	Birchwood Road	Cedarwood Road	LOC	50.4	27	11.7	499	260.6	69
Ana-069-020	High Street	135	267	132	5th Avenue	4th Avenue	COL	72.2	96	5.1	2499	257.4	70
Ana-001-060	1st Avenue	518	622	104	High Street	Buller Street	COL	72.2	95	5.1	2499	255.1	71
Ana-056-010	Gladden Road	0	314	314	Rocky Creek Road	East End	LOC	68.1	72	11.4	499	253.9	72
Ana-001-020	1st Avenue	104	206	102	White Street	Baden-Powell Street	COL	76.7	123	5.1	2499	253.6	73
Ana-011-040	Baden-Powell Street	403	535	132	3rd Avenue	2nd Avenue	COL	67.6	68	5.1	2499	252.7	74
Ana-069-010	High Street	0	135	135	6th Avenue	5th Avenue	COL	73.8	107	4.9	2499	244.8	75
Ana-007-080	6th Avenue	620	726	106	Buller Street	Kitchener Street	COL	62.9	55	4.9	2499	244.8	76
Ana-007-100	6th Avenue	829	932	103	French Street	Warren Street	COL	77.7	132	4.9	2499	242.7	77
Ana-105-040	Roberts Street	401	535	134	3rd Avenue	2nd Avenue	COL	72.7	100	4.0	3620	240.4	78
Ana-003-100	3rd Avenue	934	1035	101	Warren Street	Symonds Street	LOC	55.1	36	10.7	499	238.1	79
Ana-041-050	Dogwood Drive	1526	1637	111	Gifford Road	Belaire Street	COL	77.3	129	4.7	2499	232.8	80
Ana-138-050	Walkem Road	790	916	126	4th Avenue	3rd Avenue	COL	81.1	153	4.6	2499	230.4	81
Ana-124-020	Stillin Drive	89	299	210	Nash Place	Brown Drive	LOC	69.2	78	10.2	499	228.2	82
Ana-124-030	Stillin Drive	299	442	143	Brown Drive	Walkem Road	LOC	72.1	93	10.0	499	223.1	83
Ana-051-060	Gatacre Street	560	699	139	1st Avenue	Esplanade Avenue	LOC	69.5	81	9.9	499	221.0	84
Ana-004-050	4th Avenue	416	520	104	Gatacre Street	High Street	COL	77.6	131	3.8	3050	212.4	85
Ana-004-130	4th Avenue	1552	2155	603	Christie Road / Cook Street	Churchill Place / Greenhorn Place	COL	78.1	136	5.1	1750	211.5	86
Ana-004-020	4th Avenue	104	207	103	White Street	Baden-Powell Street	COL	69.2	77	3.7	3050	205.7	87
Ana-032-030	Cloke Road	373	499	126	Short Close	Walkem Road	LOC	71.7	89	9.1	499	202.7	88
Ana-110-040	Russell Road	396	463	67	Halliday Place	Ballou Place	COL	71.9	90	4.0	2499	199.7	89
Ana-037-030	Davidson Road	100	170	70	McKinley Road	Carey Road	LOC	65.1	62	8.6	499	191.5	90

ElementID	Road	From	To	Length (m)	Street_From	Street_To	Class	PCI	Ranking 1 _PCI	AFCA (%)	AADT (vehicle/day)	Benefit2= AFCA * SQRT (AADT)	Ranking 2_Benefit2
Ana-138-010	Walkem Road	0	56	56	Brown Drive / Colonia Drive	Davidson Road	COL	83.7	166	3.8	2499	189.7	91
Ana-004-100	4th Avenue	935	1039	104	Warren Street	Symonds Street	COL	68.0	71	3.4	3050	189.3	92
Ana-034-090	Colonia Drive	840	991	151	Therres Crescent	Delcourt Avenue	COL	80.1	144	3.7	2499	186.7	93
Ana-020-010	Birchwood Road	0	69	69	Oakwood Road	Maplewood Way	LOC	67.4	67	8.2	499	183.9	94
Ana-014-010	Battie Drive	0	363	363	Davis Road	Ryan Place	LOC	77.2	128	8.2	499	183.1	95
Ana-096-010	Oyster Bay	0	818	818	Ludlow Road	PCH	LOC	70.8	87	8.0	499	179.3	96
Ana-011-010	Baden-Powell Street	0	135	135	6th Avenue	5th Avenue	COL	80.3	146	3.5	2499	174.0	97
Ana-052-010	Gifford Road	0	153	153	Dogwood Drive	Bayview Avenue	LOC	75.7	115	7.8	499	173.9	98
Ana-001-070	1st Avenue	622	726	104	Buller Street	Kitchener Street	COL	83.0	160	3.5	2499	173.9	99
Ana-003-030	3rd Avenue	207	310	103	Baden-Powell Street	Roberts Street	LOC	63.5	60	7.8	499	173.5	100
Ana-050-040	French Street	400	468	68	3rd Avenue	Northeast End	LOC	57.4	40	7.8	499	173.3	101
Ana-110-060	Russell Road	505	572	67	Fourmeaux Crescent	Davis Road	COL	74.0	108	3.4	2499	170.4	102
Ana-028-050	Chemainus Road	1369	1419	50	King Road	Davis Road	COL	87.0	204	3.4	2499	169.2	103
Ana-011-050	Baden-Powell Street	535	620	85	2nd Avenue	Northeast End	COL	86.9	199	3.4	2499	168.7	104
Ana-074-010	Hooper Place	0	166	166	Russell Road	East End	LOC	72.6	99	7.5	499	167.8	105
Ana-093-010	Neville Street	0	217	217	Parkhill Terrace	Walker Avenue	LOC	63.4	59	7.5	499	167.0	106
Ana-007-010	6th Avenue	0	103	103	Methuen Street	White Street	COL	78.1	135	3.3	2499	163.3	107
Ana-017-010	Belaire Street	0	113	113	Jamison Road	Lions Way	LOC	68.6	74	7.0	499	157.3	108
Ana-003-060	3rd Avenue	521	622	101	High Street	Buller Street	LOC	59.4	45	6.9	499	154.8	109
Ana-004-030	4th Avenue	207	313	106	Baden-Powell Street	Roberts Street	COL	73.1	103	2.7	3050	146.8	110
Ana-004-060	4th Avenue	520	623	103	High Street	Buller Street	COL	73.3	105	2.5	3050	140.5	111
Ana-034-100	Colonia Drive	991	1089	98	Delcourt Avenue	Brown Drive / Walkem Road	COL	76.9	124	2.8	2499	138.7	112
Ana-143-020	White Street	134	267	133	5th Avenue	4th Avenue	LOC	75.3	111	6.2	499	138.6	113
Ana-028-040	Chemainus Road	1232	1369	137	Gill Road	King Road	COL	83.8	168	2.8	2499	138.2	114
Ana-075-030	Jamison Road	196	296	100	Belaire Street	Northwest End	LOC	58.9	42	6.0	499	135.0	115
Ana-003-020	3rd Avenue	103	207	104	White Street	Baden-Powell Street	LOC	59.8	47	6.0	499	133.0	116
Ana-038-080	Davis Road	1166	1416	250	Battie Drive	Battie Drive	COL	84.3	177	2.6	2499	132.2	117
Ana-001-080	1st Avenue	726	829	103	Kitchener Street	French Street	COL	73.2	104	2.6	2499	131.8	118
Ana-041-060	Dogwood Drive	1637	1782	145	Belaire Street	Bayview Avenue	COL	86.5	195	2.6	2499	127.7	119
Ana-040-010	Delcourt Avenue	0	76	76	Colonia Drive	Wallace Place	COL	80.5	148	2.5	2499	126.7	120
Ana-016-020	Bayview Avenue	53	584	531	Stephenson Street	Gifford Road	COL	90.6	235	2.5	2499	126.4	121
Ana-001-090	1st Avenue	829	930	101	French Street	Warren Street	COL	68.4	73	2.5	2499	123.7	122
Ana-081-030	Ludlow Road	321	665	344	Oyster Bay	Southeast End	LOC	86.4	193	5.5	499	123.2	123
Ana-004-090	4th Avenue	831	935	104	French Street	Warren Street	COL	76.6	122	2.2	3050	121.9	124
Ana-011-020	Baden-Powell Street	135	269	134	5th Avenue	4th Avenue	COL	82.2	157	2.4	2499	121.2	125
Ana-041-070	Dogwood Drive	1782	1880	98	Bayview Avenue	Forward Road	COL	83.9	169	2.4	2499	120.8	126
Ana-110-030	Russell Road	308	396	88	Ridgway Place	Halliday Place	COL	84.0	173	2.4	2499	120.7	127
Ana-023-040	Buller Street	402	533	131	3rd Avenue	2nd Avenue	COL	75.7	116	2.4	2499	120.0	128
Ana-110-050	Russell Road	463	505	42	Ballou Place	Fourmeaux Crescent	COL	69.4	80	2.4	2499	119.0	129
Ana-002-090	2nd Avenue	1034	1598	564	Symonds Street	Strathcona Road	LOC	75.6	114	4.9	499	109.2	130
Ana-002-010	2nd Avenue	0	102	102	Methuen Street	White Street	LOC	70.6	86	4.6	499	103.7	131
Ana-034-060	Colonia Drive	575	658	83	Cameron Place	Therres Crescent	COL	84.0	172	2.1	2499	103.3	132
Ana-138-020	Walkem Road	56	407	351	Davidson Road	Stillin Drive	COL	84.3	174	2.1	2499	102.9	133
Ana-089-050	Methuen Street	535	669	134	2nd Avenue	1st Avenue / Dogwood Drive	COL	76.2	120	2.1	2499	102.6	134
Ana-011-060	Baden-Powell Street	621	760	139	1st Avenue	Esplanade Avenue	COL	77.4	130	2.0	2499	101.1	135

ElementID	Road	From	To	Length (m)	Street_From	Street_To	Class	PCI	Ranking 1 _PCI	AFCA (%)	AADT (vehicle/day)	Benefit2= AFCA * SQRT (AADT)	Ranking 2_Benefit2
Ana-069-030	High Street	267	402	135	4th Avenue	3rd Avenue	COL	82.5	158	1.9	2499	96.0	136
Ana-069-040	High Street	402	534	132	3rd Avenue	2nd Avenue	COL	84.0	171	1.9	2499	93.0	137
Ana-003-090	3rd Avenue	828	934	106	French Street	Warren Street	LOC	76.4	121	4.0	499	89.6	138
Ana-002-070	2nd Avenue	623	723	100	Buller Street	Kitchener Street	LOC	77.8	133	4.0	499	88.5	139
Ana-141-040	Warren Street	398	483	85	3rd Avenue	Hillside Avenue	LOC	79.9	142	3.9	499	87.7	140
Ana-048-010	Forward Road	0	119	119	Southeast End	Dogwood Drive	LOC	80.1	143	3.9	499	87.6	141
Ana-034-070	Colonia Drive	658	751	93	Therres Crescent	Cameron Place	COL	84.0	170	1.7	2499	87.3	142
Ana-003-070	3rd Avenue	622	723	101	Buller Street	Kitchener Street	LOC	75.3	110	3.9	499	86.9	143
Ana-069-050	High Street	534	621	87	2nd Avenue	Market Lane	COL	88.0	214	1.7	2499	86.2	144
Ana-070-010	Hillcrest Avenue	0	202	202	Hall Road	Craig Road	LOC	85.1	181	3.8	499	85.3	145
Ana-004-080	4th Avenue	727	831	104	Kitchener Street	French Street	COL	59.4	44	1.5	3050	85.2	146
Ana-023-070	Buller Street	669	807	138	1st Avenue	Esplanade Avenue	COL	87.2	205	1.7	2499	84.3	147
Ana-034-080	Colonia Drive	751	840	89	Cameron Place	Therres Crescent	COL	83.7	165	1.6	2499	81.7	148
Ana-036-020	Craig Road	264	360	96	Hillview Avenue	Hillcrest Avenue	LOC	72.1	92	3.6	499	81.4	149
Ana-040-030	Delcourt Avenue	150	302	152	De Frane Court	Dunsmuir Crescent	COL	86.1	190	1.6	2499	80.0	150
Ana-041-030	Dogwood Drive	373	1003	630	Arbutus Crescent	Holland Creek / Stephenson Street	COL	89.8	228	1.5	2499	76.9	151
Ana-051-030	Gatacre Street	266	401	135	4th Avenue	3rd Avenue	LOC	81.9	156	3.4	499	76.7	152
Ana-089-010	Methuen Street	0	133	133	6th Avenue	5th Avenue	COL	80.9	151	1.5	2499	76.1	153
Ana-144-010	Wilrose Place	0	148	148	Southwest End	Cloke Road	LOC	78.2	137	3.4	499	74.9	154
Ana-050-050	French Street	469	559	90	Southwest End	1st Avenue	LOC	69.7	83	3.3	499	73.5	155
Ana-141-010	Warren Street	0	133	133	6th Avenue	5th Avenue	LOC	73.7	106	3.3	499	73.5	156
Ana-092-010	Nash Place	0	109	109	Southwest End	Stillin Drive	LOC	84.7	179	3.2	499	71.9	157
Ana-086-010	Market Lane	0	103	103	High Street	Buller Street	LOC	78.7	140	3.1	499	69.1	158
Ana-006-070	5th Avenue	622	727	105	Buller Street	Kitchener Street	LOC	76.1	119	3.1	499	68.4	159
Ana-033-010	Coburn Place	0	80	80	Southeast End	Bickle Drive	LOC	77.1	126	3.0	499	67.9	160
Ana-034-050	Colonia Drive	490	575	85	Malone Road	Cameron Place	COL	86.4	194	1.4	2499	67.7	161
Ana-116-010	Short Close	0	80	80	South End	Cloke Road	LOC	80.9	152	3.0	499	67.3	162
Ana-031-010	Clarke Road	0	148	148	Stephenson Street	East End	LOC	72.3	97	2.8	499	63.1	163
Ana-050-020	French Street	134	268	134	5th Avenue	4th Avenue	LOC	78.8	141	2.8	499	62.5	164
Ana-003-010	3rd Avenue	0	103	103	Methuen Street	White Street	LOC	72.9	102	2.7	499	59.6	165
Ana-005-020	4th Avenue Extension	356	458	102	Hartley Place	Hambrook Street	LOC	87.3	206	2.6	499	57.5	166
Ana-002-040	2nd Avenue	310	408	98	Roberts Street	Gatacre Street	LOC	85.1	182	2.6	499	57.0	167
Ana-077-010	King Road	0	118	118	Chemainus Road	Roland Road	LOC	88.2	216	2.5	499	57.0	168
Ana-038-040	Davis Road	339	438	99	Russell Road	McNiven Road	COL	72.2	94	1.1	2499	56.4	169
Ana-079-010	Lions Way	0	98	98	Belaire Street	Northwest End	LOC	75.6	113	2.5	499	55.6	170
Ana-009-010	Arbutus Crescent	0	91	91	Dogwood Drive	Betram Place	LOC	70.9	88	2.4	499	54.2	171
Ana-041-020	Dogwood Drive	110	373	263	Arbutus Crescent	Arbutus Crescent	COL	88.0	215	1.1	2499	54.2	172
Ana-004-040	4th Avenue	313	416	103	Roberts Street	Gatacre Street	COL	61.3	51	1.0	3050	53.6	173
Ana-082-020	Mackie Road	214	354	140	Mackie Road 1	Malone Road	LOC	83.1	161	2.3	499	52.2	174
Ana-130-070	Symonds Street	601	736	135	2nd Avenue	1st Avenue	COL	85.3	183	0.7	5030	51.5	175
Ana-139-020	Walker Avenue	446	523	77	Neville Street	Southeast End	LOC	74.4	109	2.3	499	51.4	176
Ana-001-110	1st Avenue	1036	1234	198	Symonds Street	Ludlow Road	COL	93.2	266	1.0	2499	51.4	177
Ana-109-010	Rothdale Road	0	170	170	Russell Road	East End	LOC	80.2	145	2.3	499	50.8	178
Ana-038-020	Davis Road	64	283	219	Farrell Road	Louise Road	COL	88.5	218	1.0	2499	50.1	179
Ana-089-030	Methuen Street	266	402	136	4th Avenue / 4th Avenue Extension	3rd Avenue	COL	83.6	163	1.0	2499	50.0	180

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Ana-001-100	1st Avenue	930	1036	106	Warren Street	Symonds Street	COL	86.1	189	1.0	2499	49.7	181
Ana-022-020	Brown Drive	132	287	155	Stuart Place	Stillin Drive	LOC	80.6	149	2.1	499	47.3	182
Ana-143-050	White Street	534	669	135	2nd Avenue	1st Avenue	LOC	88.5	217	2.0	499	45.5	183
Ana-008-030	Alderwood Drive	198	246	48	Cedarwood Road	4th Avenue	LOC	76.0	117	2.0	499	45.5	184
Ana-084-020	Malone Road	110	190	80	Sivers Road	Colonia Drive	COL	86.3	192	1.1	1540	42.9	185
Ana-051-020	Gatacre Street	133	266	133	5th Avenue	4th Avenue	LOC	87.6	211	1.9	499	42.0	186
Ana-124-010	Stillin Drive	0	89	89	Dunsmuir Crescent / Symonds Street	Nash Place	LOC	92.3	258	1.8	499	41.2	187
Ana-027-010	Cedarwood Road	0	198	198	Oakwood Road	Maplewood Way	LOC	89.2	226	1.8	499	40.6	188
Ana-005-010	4th Avenue Extension	0	356	356	West End	Hartley Place	LOC	83.3	162	1.8	499	39.5	189
Ana-022-010	Brown Drive	0	132	132	Colonia Drive / Walkem Road	Stuart Place	LOC	80.5	147	1.7	499	38.7	190
Ana-132-010	Taylor	0	119	119	Southwest End	Cloke Road	LOC	84.7	180	1.7	499	37.8	191
Ana-021-020	Blair Place	83	127	44	Glen Avenue	East End	LOC	88.7	221	1.6	499	36.3	192
Ana-029-030	Christie Road	211	534	323	Strathcona Road	Grouhel Road	COL	90.7	238	0.7	2499	36.2	193
Ana-017-020	Belaire Street	113	222	109	Lions Way	4th Avenue Extension	LOC	87.6	212	1.6	499	36.1	194
Ana-111-010	Ryan Place	0	288	288	Battie Drive	Northwest End	LOC	81.9	155	1.5	499	33.1	195
Ana-034-040	Colonia Drive	397	490	93	Mackie Road	Malone Road	COL	84.3	175	0.7	2499	32.9	196
Ana-006-040	5th Avenue	310	414	104	Roberts Street	Gatacre Street	LOC	72.7	101	1.4	499	32.2	197
Ana-084-030	Malone Road	190	389	199	Colonia Drive	Dunsmuir Crescent	COL	89.9	229	0.8	1540	32.0	198
Ana-057-010	Glen Avenue	0	218	218	Chemainus Road	Blair Place	LOC	91.8	250	1.4	499	31.7	199
Ana-001-040	1st Avenue	311	413	102	Roberts Street	Gatacre Street	COL	84.3	176	0.6	2499	30.0	200
Ana-044-030	Dunsmuir Crescent	376	488	112	Delcourt Avenue	Coburn Place	LOC	83.7	164	1.3	499	28.9	201
Ana-047-010	Forrest Place	0	70	70	Southwest End	Cloke Road	LOC	77.9	134	1.3	499	27.9	202
Ana-017-040	Belaire Street	316	380	64	Rigby Place	Dogwood Drive	LOC	93.7	270	1.2	499	27.6	203
Ana-024-010	Cameron Place	0	431	431	Colonia Drive	Colonia Drive	LOC	91.0	240	1.1	499	25.0	204
Ana-084-050	Malone Road	483	900	417	Mackie Road	6th Avenue	COL	92.2	256	0.6	1540	24.5	205
Ana-090-010	Morgan Road	0	398	398	Northwest End	Southeast End	LOC	97.4	303	1.1	499	24.3	206
Ana-084-010	Malone Road	0	110	110	West End	Sivers Road	COL	89.5	227	0.6	1540	23.4	207
Ana-006-060	5th Avenue	520	622	102	High Street	Buller Street	LOC	89.2	225	1.0	499	21.9	208
Ana-002-030	2nd Avenue	206	310	104	Baden-Powell Street	Roberts Street	LOC	87.8	213	1.0	499	21.5	209
Ana-105-050	Roberts Street	535	668	133	2nd Avenue	1st Avenue	COL	90.3	232	0.4	3620	21.4	210
Ana-084-040	Malone Road	389	483	94	Dunsmuir Crescent	Mackie Road	COL	90.0	231	0.5	1540	21.3	211
Ana-006-050	5th Avenue	414	520	106	Gatacre Street	High Street	LOC	76.0	118	0.9	499	21.1	212
Ana-071-010	Hillside Avenue	0	214	214	Kitchener Street	Warren Street	LOC	91.8	251	0.9	499	21.0	213
Ana-122-030	Stephenson Street	166	219	53	Bayview Avenue	Northeast End	COL	96.4	292	0.4	2499	20.9	214
Ana-038-130	Davis Road	1915	2004	89	Mylene Crescent	Chemainus Road	COL	95.6	284	0.4	2499	20.6	215
Ana-025-010	Captain Tristan de Konnick Way	0	495	495	Southeast End	Transfer Beach Boulevard	LOC	98.3	312	0.9	499	20.6	216
Ana-133-010	Therres Crescent	0	277	277	Colonia Drive	Colonia Drive	LOC	87.3	207	0.9	499	20.1	217
Ana-018-010	Betram Place	0	103	103	Southeast End	Arbutus Crescent	LOC	87.0	201	0.8	499	18.6	218
Ana-037-040	Davidson Road	170	401	231	Carey Road	Walkem Road	LOC	91.0	242	0.8	499	17.3	219
Ana-075-010	Jamison Road	0	100	100	Hambrook Street	Root Street	LOC	90.4	234	0.8	499	17.3	220
Ana-041-010	Dogwood Drive	0	110	110	Davis Road	Arbutus Crescent	COL	91.0	241	0.3	2499	16.9	221
Ana-143-040	White Street	402	534	132	3rd Avenue	2nd Avenue	LOC	93.8	271	0.8	499	16.9	222
Ana-044-010	Dunsmuir Crescent	0	265	265	Malone Road	Bickle Drive	LOC	84.6	178	0.8	499	16.9	223
Ana-040-020	Delcourt Avenue	76	150	74	Wallace Place	De Frane Court	COL	92.5	260	0.3	2499	16.5	224
Ana-089-060	Methuen Street	669	789	120	1st Avenue / Dogwood Drive	Northeast End	COL	87.0	203	0.3	2499	15.7	225

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Ana-033-020	Coburn Place	80	154	74	Bickle Drive	Dunsmuir Crescent	LOC	87.4	208	0.7	499	15.4	226
Ana-119-010	South Watts Road	100	462	362		East End	LOC	77.0	125	0.6	499	14.3	227
Ana-051-050	Gatacre Street	473	559	86	2nd Avenue	Northeast End	LOC	91.2	243	0.6	499	13.7	228
Ana-032-040	Cloke Road	499	663	164	Walkem Road	Cook Street	LOC	85.7	186	0.6	499	13.6	229
Ana-082-010	Mackie Road	0	214	214	Colonia Drive	Mackie Road 1	LOC	90.6	236	0.6	499	13.2	230
Ana-059-010	Greenhorn Place	0	95	95	4th Avenue	Greenhorn Place 1	LOC	92.4	259	0.5	499	12.2	231
Ana-014-020	Battie Drive	363	457	94	Ryan Place	Davis Road	LOC	86.7	197	0.5	499	11.9	232
Ana-015-010	Battie Drive 1	0	209	209	Thetis Drive	Northwest End	LOC	93.3	267	0.5	499	11.6	233
Ana-103-010	Ridgway Place	0	256	256	Russell Road	West End	LOC	90.7	237	0.5	499	11.5	234
Ana-016-030	Bayview Avenue	584	753	169	Gifford Road	Dogwood Drive	COL	94.0	273	0.2	2499	11.3	235
Ana-064-020	Hambrook Street	58	279	221	Jamison Road	4th Avenue Extension	COL	94.8	278	0.2	2499	11.2	236
Ana-006-090	5th Avenue	830	932	102	French Street	Warren Street	LOC	88.6	220	0.5	499	11.0	237
Ana-087-020	McKinley Road	133	337	204	Oliver Terrace	North End	LOC	92.7	262	0.5	499	10.8	238
Ana-105-060	Roberts Street	668	807	139	1st Avenue	anade Avenue / Transfer Beach Boule	COL	96.1	289	0.2	3620	10.6	239
Ana-002-020	2nd Avenue	102	206	104	White Street	Baden-Powell Street	LOC	92.2	255	0.5	499	10.5	240
Ana-059-020	Greenhorn Place	95	210	115	Greenhorn Place 1	Northwest End	LOC	98.3	311	0.5	499	10.1	241
Ana-046-020	Farrell Road	201	374	173	Stirling Drive	Davis Road	LOC	96.2	290	0.4	499	9.9	242
Ana-032-020	Cloke Road	243	373	130	Wilrose Place	Short Close	LOC	88.9	224	0.4	499	9.0	243
Ana-050-030	French Street	268	400	132	4th Avenue	3rd Avenue	LOC	91.7	249	0.4	499	8.5	244
Ana-128-010	Stuart Place	0	140	140	Brown Drive	Northwest End	LOC	86.9	198	0.4	499	8.4	245
Ana-126-010	Strang Drive	0	149	149	Southeast End	Mylene Crescent	LOC	88.6	219	0.4	499	8.4	246
Ana-143-030	White Street	267	402	135	4th Avenue	3rd Avenue	LOC	90.8	239	0.4	499	8.3	247
Ana-107-010	Roland Road	0	274	274	King Road	King Road	LOC	88.9	223	0.3	499	6.2	248
Ana-122-020	Stephenson Street	68	166	98	Clarke Road	Bayview Avenue	COL	91.8	253	0.1	2499	6.0	249
Ana-004-140	4th Avenue	2155	2243	88	Churchill Place / Greenhorn Place	Alderwood Drive	COL	90.0	230	0.1	1750	5.9	250
Ana-061-010	Grouhel Road	0	225	225	Christie Road	East End	LOC	94.5	276	0.2	499	5.4	251
Ana-042-010	Douglas Place	0	120	120	Douglas Place 1	Stirling Drive	COL	97.8	307	0.1	2499	5.3	252
Ana-108-010	Root Street	0	221	221	Jamison Road	4th Avenue Extension	LOC	95.4	283	0.2	499	5.1	253
Ana-003-050	3rd Avenue	415	521	106	Gatacre Street	High Street	LOC	61.3	52	0.2	499	5.0	254
Ana-065-010	Hanington Road	0	136	136	Northwest End	Colonia Drive	LOC	96.1	288	0.2	499	4.5	255
Ana-141-030	Warren Street	267	398	131	4th Avenue	3rd Avenue	LOC	96.0	285	0.2	499	4.3	256
Ana-142-010	Westdown Road	0	735	735	Peerless Road	North End	LOC	98.6	320	0.2	499	4.2	257
Ana-021-010	Blair Place	0	83	83	West End	Glen Avenue	LOC	95.2	281	0.0	499	1.0	258
Ana-006-100	5th Avenue	932	1036	104	Warren Street	Symonds Street	LOC	93.1	265	0.0	499	0.3	259
Ana-003-040	3rd Avenue	310	415	105	Roberts Street	Gatacre Street	LOC	70.1	85	0.0	499	0.0	260
Ana-001-050	1st Avenue	413	518	105	Gatacre Street	High Street	COL	78.5	138	0.0	2499	0.0	261
Ana-006-010	5th Avenue	0	103	103	Methuen Street	White Street	LOC	82.8	159	0.0	499	0.0	262
Ana-006-030	5th Avenue	207	310	103	Baden-Powell Street	Roberts Street	LOC	85.4	184	0.0	499	0.0	263
Ana-046-010	Farrell Road	0	201	201	Southeast End	Stirling Drive	LOC	85.7	185	0.0	499	0.0	264
Ana-032-060	Cloke Road	724	803	79	Taylor	Forrest Place / Giovando Way	LOC	85.8	187	0.0	499	0.0	265
Ana-008-010	Alderwood Drive	0	48	48	South End	Birchwood Road	LOC	86.0	188	0.0	499	0.0	266
Ana-032-070	Cloke Road	803	846	43	Forrest Place / Giovando Way	Churchill Place	LOC	86.3	191	0.0	499	0.0	267
Ana-032-050	Cloke Road	663	724	61	Cook Street	Taylor	LOC	86.5	196	0.0	499	0.0	268
Ana-050-060	French Street	559	647	88	1st Avenue	Northeast End	LOC	86.9	200	0.0	499	0.0	269
Ana-036-030	Craig Road	360	455	95	Hillcrest Avenue	Davis Road	LOC	87.0	202	0.0	499	0.0	270

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Ana-122-010	Stephenson Street	0	68	68	Dogwood Drive / Holland Creek	Clarke Road	COL	87.5	209	0.0	2499	0.0	271
Ana-062-020	Hall Road	86	141	55	Thetis Drive	Davis Road	LOC	87.5	210	0.0	499	0.0	272
Ana-052-020	Gifford Road	153	289	136	Bayview Avenue	Northeast End	LOC	88.7	222	0.0	499	0.0	273
Ana-100-020	Peerless Road	384	535	151	Westdown Road	East End	LOC	90.4	233	0.0	499	0.0	274
Ana-007-020	6th Avenue	103	207	104	White Street	Baden-Powell Street	COL	91.2	244	0.0	2499	0.0	275
Ana-037-010	Davidson Road	0	100	100	West End	McKinley Road	LOC	91.4	245	0.0	499	0.0	276
Ana-044-020	Dunsmuir Crescent	265	376	111	Bickle Drive	Delcourt Avenue	LOC	91.5	246	0.0	499	0.0	277
Ana-051-010	Gatacre Street	0	133	133	6th Avenue	5th Avenue	LOC	91.5	247	0.0	499	0.0	278
Ana-094-020	Oakwood Road	151	198	47	Cedarwood Road	4th Avenue	LOC	91.6	248	0.0	499	0.0	279
Ana-127-020	Strathcona Road	94	157	63	2nd Avenue	Northeast End	LOC	91.8	252	0.0	499	0.0	280
Ana-062-010	Hall Road	0	86	86	Hillcrest Avenue	Thetis Drive	LOC	91.8	254	0.0	499	0.0	281
Ana-080-050	Louise Road	531	625	94	Gourlay Place	Davis Road	LOC	92.2	257	0.0	499	0.0	282
Ana-036-010	Craig Road	0	264	264	South End	Hillview Avenue	LOC	92.6	261	0.0	499	0.0	283
Ana-035-010	Cook Street	0	150	150	Cloke Road	Gilson Place	LOC	93.0	263	0.0	499	0.0	284
Ana-050-010	French Street	0	134	134	6th Avenue	5th Avenue	LOC	93.0	264	0.0	499	0.0	285
Ana-098-020	Parkhill Terrace	122	434	312	Neville Street	Davis Road	LOC	93.5	268	0.0	499	0.0	286
Ana-102-010	Resolution Place	0	122	122	Southeast End	Cook Street	LOC	93.7	269	0.0	499	0.0	287
Ana-006-080	5th Avenue	727	830	103	Kitchener Street	French Street	LOC	93.9	272	0.0	499	0.0	288
Ana-143-060	White Street	669	793	124	1st Avenue	Northeast End	LOC	94.1	274	0.0	499	0.0	289
Ana-064-010	Hambrook Street	0	58	58	Southwest End	Jamison Road	COL	94.4	275	0.0	2499	0.0	290
Ana-080-030	Louise Road	224	312	88	Tassin Place	McNiven Road	LOC	94.6	277	0.0	499	0.0	291
Ana-032-010	Cloke Road	0	243	243	Symonds Street	Wilrose Place	LOC	95.1	279	0.0	499	0.0	292
Ana-087-010	McKinley Road	0	133	133	Davidson Road	Oliver Terrace	LOC	95.1	280	0.0	499	0.0	293
Ana-006-020	5th Avenue	103	207	104	White Street	Baden-Powell Street	LOC	95.3	282	0.0	499	0.0	294
Ana-080-020	Louise Road	136	224	88	Ashwell Place	Tassin Place	LOC	96.0	286	0.0	499	0.0	295
Ana-034-030	Colonia Drive	230	397	167	Hayden Place	Mackie Road	COL	96.1	287	0.0	2499	0.0	296
Ana-125-040	Stirling Drive	91	133	42	Spurling Crescent	Selinger Place	COL	96.3	291	0.0	2499	0.0	297
Ana-125-030	Stirling Drive	47	91	44	Snaith Place	Spurling Crescent	COL	96.6	293	0.0	2499	0.0	298
Ana-123-010	Stevens Place	0	59	59	Stirling Drive	Northeast End	LOC	96.7	294	0.0	499	0.0	299
Ana-060-010	Greenhorn Place 1	0	51	51	Greenhorn Place	East End	LOC	96.9	295	0.0	499	0.0	300
Ana-003-120	3rd Avenue	1424	1554	130	Walkem Road	Christie Road	LOC	97.0	296	0.0	499	0.0	301
Ana-010-010	Ashwell Place	0	76	76	South End	Louise Road	LOC	97.2	297	0.0	499	0.0	302
Ana-039-010	De Frane Court	0	66	66	Southwest End	Delcourt Avenue	COL	97.3	298	0.0	2499	0.0	303
Ana-125-010	Stirling Drive	0	47	47	South End	Snaith Place	COL	97.3	299	0.0	2499	0.0	304
Ana-117-010	Sivers Road	0	141	141	Malone Road	Northwest End	LOC	97.4	300	0.0	499	0.0	305
Ana-125-080	Stirling Drive	416	509	93	Schubert Place	Douglas Place	COL	97.4	301	0.0	2499	0.0	306
Ana-026-010	Carey Road	0	64	64	Davidson Road	North End	LOC	97.4	302	0.0	499	0.0	307
Ana-134-020	Thetis Drive	415	635	220	Battie Drive 1	Hall Road	LOC	97.5	304	0.0	499	0.0	308
Ana-080-040	Louise Road	312	531	219	McNiven Road	Gourlay Place	LOC	97.5	305	0.0	499	0.0	309
Ana-080-010	Louise Road	0	136	136	Hall Road	Ashwell Place	LOC	97.7	306	0.0	499	0.0	310
Ana-141-050	Warren Street	484	614	130	Southwest End	1st Avenue	LOC	97.9	308	0.0	499	0.0	311
Ana-125-060	Stirling Drive	184	332	148	Steele Place	Stevens Place	COL	98.1	309	0.0	2499	0.0	312
Ana-081-020	Ludlow Road	162	321	159	Rocky Creek Road	Oyster Bay	LOC	98.2	310	0.0	499	0.0	313
Ana-140-010	Wallace Place	0	167	167	Delcourt Avenue	Northeast End	LOC	98.3	313	0.0	499	0.0	314
Ana-066-010	Hartley Place	0	174	174	Southwest End	4th Avenue Extension	LOC	98.3	314	0.0	499	0.0	315

ElementID	Road	From	To	Length (m)	Street_From	Street_To	Class	PCI	Ranking 1 _PCI	AFCA (%)	AADT (vehicle/day)	Benefit2= AFCA * SQRT (AADT)	Ranking 2_Benefit2
Ana-125-090	Stirling Drive	509	565	56	Douglas Place	Farrell Road	COL	98.3	315	0.0	2499	0.0	316
Ana-077-020	King Road	118	236	118	Roland Road	Roland Road	LOC	98.5	316	0.0	499	0.0	317
Ana-028-030	Chemainus Road	1143	1232	89	Tyrrell Road	Gill Road	COL	98.6	317	0.0	2499	0.0	318
Ana-088-010	McNiven Road	0	134	134	Davis Road	Louise Road	LOC	98.6	318	0.0	499	0.0	319
Ana-125-050	Stirling Drive	133	184	51	Selinger Place	Steele Place	COL	98.6	319	0.0	2499	0.0	320
Ana-106-010	Rocky Creek Road	0	942	942	Ludlow Road	Gladden Road	LOC	98.6	321	0.0	499	0.0	321
Ana-054-010	Gilson Place	0	98	98	Cook Street	Southeast End	LOC	98.6	322	0.0	499	0.0	322
Ana-078-050	Kitchener Street	400	535	135	2nd Avenue	1st Avenue	COL	98.7	323	0.0	2499	0.0	323
Ana-083-010	Mackie Road 1	0	49	49	South End	Mackie Road	LOC	98.7	324	0.0	499	0.0	324
Ana-094-010	Oakwood Road	0	151	151	Birchwood Road	Cedarwood Road	LOC	98.8	325	0.0	499	0.0	325
Ana-105-010	Roberts Street	0	133	133	6th Avenue	5th Avenue	COL	98.9	326	0.0	3620	0.0	326
Ana-091-010	Mylene Crescent	0	49	49	South End	Strang Drive	LOC	98.9	327	0.0	499	0.0	327
Ana-038-090	Davis Road	1416	1561	145	Battie Drive	Parkhill Terrace	COL	99.0	328	0.0	2499	0.0	328
Ana-143-010	White Street	0	134	134	6th Avenue	5th Avenue	LOC	99.1	329	0.0	499	0.0	329
Ana-136-020	Transfer Beach Boulevard	359	569	210	Oyster Bay	Captain Tristan de Konnick Way	LOC	99.2	330	0.0	499	0.0	330
Ana-114-010	Selinger Place	0	152	152	Stirling Drive	North End	LOC	99.2	331	0.0	499	0.0	331
Ana-034-020	Colonia Drive	141	230	89	Hanington Road	Hayden Place	COL	99.2	332	0.0	2499	0.0	332
Ana-115-010	Sharp Place	0	70	70	Symonds Street	Northwest End	LOC	99.2	333	0.0	499	0.0	333
Ana-029-020	Christie Road	124	211	87	3rd Avenue	Strathcona Road	COL	99.2	334	0.0	2499	0.0	334
Ana-002-060	2nd Avenue	519	623	104	High Street	Buller Street	LOC	99.2	335	0.0	499	0.0	335
Ana-131-010	Tassin Place	0	72	72	South End	Louise Road	LOC	99.3	336	0.0	499	0.0	336
Ana-125-070	Stirling Drive	332	416	84	Stevens Place	Schubert Place	COL	99.3	337	0.0	2499	0.0	337
Ana-112-010	Sanderson Road	0	133	133	Stirling Drive	Spurling Crescent	LOC	99.3	338	0.0	499	0.0	338
Ana-120-010	Spurling Crescent	0	170	170	Stirling Drive	Sanderson Road	LOC	99.4	339	0.0	499	0.0	339
Ana-028-010	Chemainus Road	0	385	385	Glen Avenue	Woodley Road	COL	99.4	340	0.0	2499	0.0	340
Ana-053-010	Gill Road	0	95	95	Chemainus Road	Hawley Place	LOC	99.5	341	0.0	499	0.0	341
Ana-129-010	Sweetenham Place	0	113	113	Southeast End	Sanderson Road	LOC	99.5	342	0.0	499	0.0	342
Ana-044-040	Dunsmuir Crescent	488	528	40	Coburn Place	Stillin Drive / Symonds Street	LOC	99.5	343	0.0	499	0.0	343
Ana-130-080	Symonds Street	736	825	89	1st Avenue	Northeast End	COL	99.5	344	0.0	5030	0.0	344
Ana-073-010	Holland Creek	0	100	100	Southwest End	Dogwood Drive / Stephenson Street	LOC	99.5	345	0.0	499	0.0	345
Ana-091-020	Mylene Crescent	49	148	99	Strang Drive	Davis Road	LOC	99.5	346	0.0	499	0.0	346
Ana-095-010	Oliver Terrace	0	113	113	Davidson Road	Poulain Road	LOC	99.5	347	0.0	499	0.0	347
Ana-095-020	Oliver Terrace	113	229	116	Poulain Road	McKinley Road	LOC	99.5	348	0.0	499	0.0	348
Ana-105-020	Roberts Street	133	266	133	5th Avenue	4th Avenue	COL	99.5	349	0.0	3620	0.0	349
Ana-009-020	Arbutus Crescent	91	472	381	Betram Place	Dogwood Drive	LOC	99.6	350	0.0	499	0.0	350
Ana-049-010	Fourmeaux Crescent	0	184	184	Halliday Place	Russell Road	LOC	99.7	351	0.0	499	0.0	351
Ana-003-110	3rd Avenue	1035	1424	389	Symonds Street	Walkem Road	LOC	99.7	352	0.0	499	0.0	352
Ana-043-010	Douglas Place 1	0	58	58	South End	North End	COL	99.7	353	0.0	2499	0.0	353
Ana-112-030	Sanderson Road	219	323	104	Sweetenham Place	East End	LOC	99.8	354	0.0	499	0.0	354
Ana-076-020	Jim Cram Drive	144	482	338	Parks Place	North End	COL	99.8	355	0.0	2499	0.0	355
Ana-038-120	Davis Road	1666	1915	249	Walker Avenue	Mylene Crescent	COL	99.8	356	0.0	2499	0.0	356
Ana-034-010	Colonia Drive	0	141	141	Southeast End	Hanington Road	COL	99.8	357	0.0	2499	0.0	357
Ana-053-020	Gill Road	95	249	154	Hawley Place	North End	LOC	99.8	358	0.0	499	0.0	358
Ana-136-010	Transfer Beach Boulevard	0	359	359	Esplanade Avenue / Roberts Street	Oyster Bay	LOC	99.8	359	0.0	499	0.0	359
Ana-063-020	Halliday Place	90	214	124	Fourmeaux Crescent	Northeast End	LOC	99.9	360	0.0	499	0.0	360



ElementID	Road	From	To	Length (m)	Street_From	Street_To	Class	PCI	Ranking 1 _PCI	AFCA (%)	AADT (vehicle/day)	Benefit2= AFCA * SQRT (AADT)	Ranking 2_Benefit2
Ana-134-010	Thetis Drive	0	415	415	Northwest End	Battie Drive 1	LOC	99.9	361	0.0	499	0.0	361
Ana-081-010	Ludlow Road	0	162	162	1st Avenue	Rocky Creek Road	LOC	99.9	362	0.0	499	0.0	362
Ana-028-020	Chemainus Road	385	1143	758	Woodley Road	Tyrrell Road	COL	100.0	363	0.0	2499	0.0	363
Ana-004-150	4th Avenue	2243	2385	142	Alderwood Drive	Jim Cram Drive	COL	100.0	367	0.0	1750	0.0	364
Ana-013-010	Ballou Place	0	125	125	West End	Russell Road	LOC	100.0	368	0.0	499	0.0	365
Ana-038-100	Davis Road	1561	1625	64	Parkhill Terrace	Dogwood Drive	COL	100.0	364	0.0	2499	0.0	366
Ana-038-110	Davis Road	1625	1666	41	Dogwood Drive	Walker Avenue	COL	100.0	365	0.0	2499	0.0	367
Ana-055-010	Giovando Way	0	135	135	Cloke Road	Northeast End	LOC	100.0	369	0.0	499	0.0	368
Ana-058-010	Gourlay Place	0	95	95	West End	Louise Road	LOC	100.0	370	0.0	499	0.0	369
Ana-062-030	Hall Road	141	252	111	Davis Road	Louise Road	LOC	100.0	371	0.0	499	0.0	370
Ana-063-010	Halliday Place	0	90	90	Russell Road	Fourmeaux Crescent	LOC	100.0	372	0.0	499	0.0	371
Ana-067-010	Hawley Place	0	51	51	Northwest End	Gill Road	LOC	100.0	373	0.0	499	0.0	372
Ana-068-010	Hayden Place	0	54	54	Colonia Drive	Northeast End	LOC	100.0	374	0.0	499	0.0	373
Ana-076-010	Jim Cram Drive	0	144	144	South End	Parks Place	COL	100.0	366	0.0	2499	0.0	374
Ana-099-010	Parks Place	0	82	82	Jim Cram Drive	East End	LOC	100.0	375	0.0	499	0.0	375
Ana-101-010	Poulain Road	0	62	62	Northwest End	Oliver Terrace	LOC	100.0	376	0.0	499	0.0	376
Ana-112-020	Sanderson Road	133	219	86	Spurling Crescent	Sweetenham Place	LOC	100.0	377	0.0	499	0.0	377
Ana-113-010	Schubert Place	0	60	60	West End	Stirling Drive	LOC	100.0	378	0.0	499	0.0	378
Ana-118-010	Snaith Place	0	54	54	Northwest End	Stirling Drive	LOC	100.0	379	0.0	499	0.0	379
Ana-121-010	Steele Place	0	47	47	Stirling Drive	Southeast End	LOC	100.0	380	0.0	499	0.0	380
Ana-127-010	Strathcona Road	0	94	94	Christie Road	2nd Avenue	LOC	100.0	381	0.0	499	0.0	381

Road	From	To	Length (m)	From Description	To Description	Width (m)	Class	Treatment	Year	Cost (\$)
1st Avenue	0	104	104	Dogwood Drive / Methuen Street	White Street	10.2	COL	Mill_50	2019	33,898
1st Avenue	104	206	102	White Street	Baden-Powell Street	11.8	COL	Mill_50	2020	39,123
1st Avenue	206	311	105	Baden-Powell Street	Roberts Street	15	COL	Mill_50	2020	51,196
1st Avenue	311	413	102	Roberts Street	Gatacre Street	14.9	COL			
1st Avenue	413	518	105	Gatacre Street	High Street	14.4	COL			
1st Avenue	518	622	104	High Street	Buller Street	15.1	COL	Mill_50	2020	51,046
1st Avenue	622	726	104	Buller Street	Kitchener Street	14.2	COL	Mill_50	2023	50,734
1st Avenue	726	829	103	Kitchener Street	French Street	14.3	COL	Mill_50	2024	51,615
1st Avenue	829	930	101	French Street	Warren Street	14.6	COL	Mill_50	2025	52,749
1st Avenue	930	1036	106	Warren Street	Symonds Street	12.8	COL			
1st Avenue	1036	1234	198	Symonds Street	Ludlow Road	15.9	COL			
2nd Avenue	0	102	102	Methuen Street	White Street	7.6	LOC			
2nd Avenue	102	206	104	White Street	Baden-Powell Street	7.4	LOC			
2nd Avenue	206	310	104	Baden-Powell Street	Roberts Street	7.6	LOC			
2nd Avenue	310	408	98	Roberts Street	Gatacre Street	10.02245	LOC	OL_50	2024	21,608
2nd Avenue	408	519	111	Gatacre Street	High Street	10.9	LOC			
2nd Avenue	519	623	104	High Street	Buller Street	7.488461	LOC			
2nd Avenue	623	723	100	Buller Street	Kitchener Street	6.3	LOC			
2nd Avenue	723	1034	311	Kitchener Street	Symonds Street	7.836334	LOC	Reclaim	2018	121,855
2nd Avenue	1034	1598	564	Symonds Street	Strathcona Road	7.7	LOC			
3rd Avenue	0	103	103	Methuen Street	White Street	7.6	LOC			
3rd Avenue	103	207	104	White Street	Baden-Powell Street	7.6	LOC			
3rd Avenue	207	310	103	Baden-Powell Street	Roberts Street	5.9	LOC			
3rd Avenue	310	415	105	Roberts Street	Gatacre Street	6.3	LOC			
3rd Avenue	415	521	106	Gatacre Street	High Street	15.5	LOC			
3rd Avenue	521	622	101	High Street	Buller Street	11.6	LOC			
3rd Avenue	622	723	101	Buller Street	Kitchener Street	7.1	LOC			
3rd Avenue	723	828	105	Kitchener Street	French Street	7.1	LOC	Mill_50	2021	49,209
3rd Avenue	828	934	106	French Street	Warren Street	6	LOC			
3rd Avenue	934	1035	101	Warren Street	Symonds Street	7.3	LOC			
3rd Avenue	1035	1424	389	Symonds Street	Walkem Road	7.202056	LOC			
3rd Avenue	1424	1554	130	Walkem Road	Christie Road	8	LOC			
4th Avenue	0	104	104	4th Avenue Extension / Methuen Street	White Street	6.8	COL	OL_50	2016	22,456
4th Avenue	104	207	103	White Street	Baden-Powell Street	6.7	COL	OL_50	2022	19,424
4th Avenue	207	313	106	Baden-Powell Street	Roberts Street	6.8	COL	OL_50	2024	23,321
4th Avenue	313	416	103	Roberts Street	Gatacre Street	7	COL			
4th Avenue	416	520	104	Gatacre Street	High Street	7.6	COL	OL_50	2022	22,229
4th Avenue	520	623	103	High Street	Buller Street	7.4	COL	OL_50	2024	23,160
4th Avenue	623	727	104	Buller Street	Kitchener Street	7.2	COL	Mill_50	2020	30,348

Road	From	To	Length (m)	From Description	To Description	Width (m)	Class	Treatment	Year	Cost (\$)
4th Avenue	727	831	104	Kitchener Street	French Street	13.9	COL			
4th Avenue	831	935	104	French Street	Warren Street	11	COL	OL_50	2025	33,957
4th Avenue	935	1039	104	Warren Street	Symonds Street	9.3	COL	OL_50	2023	27,410
4th Avenue	1039	1425	386	Symonds Street	Walkem Road	8.6	COL	Mill_50	2017	172,257
4th Avenue	1425	1552	127	Walkem Road	Christie Road / Cook Street	7.6	COL	Reconstruct	2022	96,520
4th Avenue	1552	2155	603	Christie Road / Cook Street	Churchill Place / Greenhorn Place	8.808	COL	OL_50	2022	191,231
4th Avenue	2155	2243	88	Churchill Place / Greenhorn Place	Alderwood Drive	13.8	COL			
4th Avenue	2243	2385	142	Alderwood Drive	Jim Cram Drive	10.9	COL			
4th Avenue Extension	0	356	356	West End	Hartley Place	12.2941	LOC			
4th Avenue Extension	356	458	102	Hartley Place	Hambrook Street	9.711764	LOC			
4th Avenue Extension	458	558	100	Hambrook Street	Root Street	7.6	LOC	Reclaim	2017	38,000
4th Avenue Extension	558	653	95	Root Street	Belaire Street	7.6	LOC	Reclaim	2017	36,100
4th Avenue Extension	653	837	184	Belaire Street	4th Avenue / Methuen Street	7.7	LOC	Reclaim	2017	70,840
5th Avenue	0	103	103	Methuen Street	White Street	11.2	LOC			
5th Avenue	103	207	104	White Street	Baden-Powell Street	11.2	LOC			
5th Avenue	207	310	103	Baden-Powell Street	Roberts Street	10.8	LOC			
5th Avenue	310	414	104	Roberts Street	Gatacre Street	6.6	LOC			
5th Avenue	414	520	106	Gatacre Street	High Street	7.4	LOC			
5th Avenue	520	622	102	High Street	Buller Street	7.1	LOC			
5th Avenue	622	727	105	Buller Street	Kitchener Street	6.8	LOC	OL_50	2023	26,591
5th Avenue	727	830	103	Kitchener Street	French Street	11.3	LOC			
5th Avenue	830	932	102	French Street	Warren Street	11.6	LOC			
5th Avenue	932	1036	104	Warren Street	Symonds Street	11.4	LOC			
6th Avenue	0	103	103	Methuen Street	White Street	8.5	COL	Mill_50	2023	36,579
6th Avenue	103	207	104	White Street	Baden-Powell Street	8.6	COL			
6th Avenue	207	311	104	Baden-Powell Street	Roberts Street	9.3	COL	Mill_50	2019	35,945
6th Avenue	311	363	52	Roberts Street	Malone Road	9.9	COL	Reconstruct	2017	51,480
6th Avenue	363	415	52	Malone Road	Gatacre Street	13.2	COL	Reconstruct	2017	68,640
6th Avenue	415	519	104	Gatacre Street	High Street	13.6	COL	Mill_50	2017	71,276
6th Avenue	519	620	101	High Street	Buller Street	9.7	COL	Mill_50	2019	50,480
6th Avenue	620	726	106	Buller Street	Kitchener Street	10.60094	COL	Mill_50	2021	46,608
6th Avenue	726	829	103	Kitchener Street	French Street	10.7	COL	Mill_50	2019	48,852
6th Avenue	829	932	103	French Street	Warren Street	10.8	COL	Mill_50	2021	36,806
6th Avenue	932	1036	104	Warren Street	Symonds Street	10.5	COL	Mill_50	2017	35,855
Alderwood Drive	0	48	48	South End	Birchwood Road	9.2	LOC			
Alderwood Drive	48	198	150	Birchwood Road	Cedarwood Road	9.1	LOC			
Alderwood Drive	198	246	48	Cedarwood Road	4th Avenue	9.1	LOC			
Arbutus Crescent	0	91	91	Dogwood Drive	Betram Place	8.1	LOC			
Arbutus Crescent	91	472	381	Betram Place	Dogwood Drive	8.4	LOC			

Road	From	To	Length (m)	From Description	To Description	Width (m)	Class	Treatment	Year	Cost (\$)
Ashwell Place	0	76	76	South End	Louise Road	11.9	LOC			
Baden-Powell Street	0	135	135	6th Avenue	5th Avenue	7.9	COL	Mill_50	2023	37,565
Baden-Powell Street	135	269	134	5th Avenue	4th Avenue	7.9	COL	Mill_50	2025	40,222
Baden-Powell Street	269	403	134	4th Avenue	3rd Avenue	7.6	COL	Mill_50	2020	33,864
Baden-Powell Street	403	535	132	3rd Avenue	2nd Avenue	7.8	COL	Mill_50	2021	41,596
Baden-Powell Street	535	620	85	2nd Avenue	Northeast End	7.7	COL	Mill_50	2023	22,485
Baden-Powell Street	621	760	139	1st Avenue	Esplanade Avenue	9.3	COL	Mill_50	2025	51,640
Baker Road	0	150	150	Davis Road	Northwest End	11.4	COL	Mill_50	2019	90,380
Ballou Place	0	125	125	West End	Russell Road	10.2	LOC			
Battie Drive	0	363	363	Davis Road	Ryan Place	6.357576	LOC	Reclaim	2024	115,390
Battie Drive	363	457	94	Ryan Place	Davis Road	10.9	LOC			
Battie Drive 1	0	209	209	Thetis Drive	Northwest End	9.8	LOC			
Bayview Avenue	0	53	53	Southeast End	Stephenson Street	9.9	COL	Mill_50	2016	22,384
Bayview Avenue	53	584	531	Stephenson Street	Gifford Road	7.3	COL	Mill_50	2024	152,688
Bayview Avenue	584	753	169	Gifford Road	Dogwood Drive	10.35207	COL			
Belaire Street	0	113	113	Jamison Road	Lions Way	9.4	LOC			
Belaire Street	113	222	109	Lions Way	4th Avenue Extension	9.4	LOC			
Belaire Street	222	316	94	4th Avenue Extension	Rigby Place	11.9	LOC			
Belaire Street	316	380	64	Rigby Place	Dogwood Drive	13	LOC			
Betram Place	0	103	103	Southeast End	Arbutus Crescent	10.9	LOC			
Bickle Drive	0	204	204	Dunsmuir Crescent	Coburn Place	8	LOC	Reclaim	2018	81,600
Birchwood Road	0	69	69	Oakwood Road	Maplewood Way	8.8	LOC	Mill_50	2022	22,908
Birchwood Road	69	268	199	Maplewood Way	Alderwood Drive	9	LOC			
Blair Place	0	83	83	West End	Glen Avenue	13.8	LOC			
Blair Place	83	127	44	Glen Avenue	East End	12.5	LOC			
Brown Drive	0	132	132	Colonia Drive / Walkem Road	Stuart Place	7.5	LOC			
Brown Drive	132	287	155	Stuart Place	Stillin Drive	7.6	LOC			
Buller Street	0	136	136	6th Avenue	5th Avenue	7.5	COL	OL_50	2016	34,052
Buller Street	136	267	131	5th Avenue	4th Avenue	7.5	COL	OL_50	2016	33,772
Buller Street	267	402	135	4th Avenue	3rd Avenue	11.9	COL	Reconstruct	2018	160,650
Buller Street	402	533	131	3rd Avenue	2nd Avenue	13	COL	Mill_50	2025	60,919
Buller Street	533	622	89	2nd Avenue	Market Lane	13.8	COL	Mill_50	2019	39,248
Buller Street	622	669	47	Market Lane	1st Avenue	16.3	COL	Mill_50	2020	30,791
Buller Street	669	807	138	1st Avenue	Esplanade Avenue	11.8	COL			
Cameron Place	0	431	431	Colonia Drive	Colonia Drive	9.4	LOC			
Captain Tristan de Konnick Way	0	495	495	Southeast End	Transfer Beach Boulevard	9.108686	LOC			
Carey Road	0	64	64	Davidson Road	North End	14.7	LOC			
Cedarwood Road	0	198	198	Oakwood Road	Maplewood Way	7.606061	LOC			
Cedarwood Road	198	272	74	Maplewood Way	Alderwood Drive	8.8	LOC	Mill_50	2021	30,960

Road	From	To	Length (m)	From Description	To Description	Width (m)	Class	Treatment	Year	Cost (\$)
Chemainus Road	0	385	385	Glen Avenue	Woodley Road	7.1	COL			
Chemainus Road	385	1143	758	Woodley Road	Tyrrell Road	8.299736	COL			
Chemainus Road	1143	1232	89	Tyrrell Road	Gill Road	8.1	COL			
Chemainus Road	1232	1369	137	Gill Road	King Road	11.5708	COL	Mill_50	2024	60,772
Chemainus Road	1369	1419	50	King Road	Davis Road	19.9	COL	Mill_50	2023	42,693
Christie Road	0	124	124	4th Avenue	3rd Avenue	9.8	COL	Mill_50	2017	70,236
Christie Road	124	211	87	3rd Avenue	Strathcona Road	10.8	COL			
Christie Road	211	534	323	Strathcona Road	Grouhel Road	11.3	COL			
Clarke Road	0	148	148	Stephenson Street	East End	5.3	LOC	OL_50	2023	17,257
Cloke Road	0	243	243	Symonds Street	Wilrose Place	11.15226	LOC			
Cloke Road	243	373	130	Wilrose Place	Short Close	9.4	LOC			
Cloke Road	373	499	126	Short Close	Walkem Road	7.5	LOC	Reclaim	2023	47,250
Cloke Road	499	663	164	Walkem Road	Cook Street	10.34878	LOC			
Cloke Road	663	724	61	Cook Street	Taylor	9.7	LOC			
Cloke Road	724	803	79	Taylor	Forrest Place / Giovando Way	8.8	LOC			
Cloke Road	803	846	43	Forrest Place / Giovando Way	Churchill Place	7.6	LOC			
Coburn Place	0	80	80	Southeast End	Bickle Drive	13.3	LOC	OL_50	2023	23,408
Coburn Place	80	154	74	Bickle Drive	Dunsmuir Crescent	7	LOC			
Colonia Drive	0	141	141	Southeast End	Hanington Road	18.4	COL			
Colonia Drive	141	230	89	Hanington Road	Hayden Place	18.5	COL			
Colonia Drive	230	397	167	Hayden Place	Mackie Road	10.41018	COL			
Colonia Drive	397	490	93	Mackie Road	Malone Road	12.1	COL			
Colonia Drive	490	575	85	Malone Road	Cameron Place	12.40471	COL			
Colonia Drive	575	658	83	Cameron Place	Therres Crescent	12.79639	COL	Mill_50	2025	38,791
Colonia Drive	658	751	93	Therres Crescent	Cameron Place	12.5	COL			
Colonia Drive	751	840	89	Cameron Place	Therres Crescent	12.6	COL			
Colonia Drive	840	991	151	Therres Crescent	Delcourt Avenue	12.5	COL	Mill_50	2022	74,146
Colonia Drive	991	1089	98	Delcourt Avenue	Brown Drive / Walkem Road	12.5	COL	Mill_50	2024	46,449
Cook Street	0	150	150	Cloke Road	Gilson Place	9.9	LOC			
Craig Road	0	264	264	South End	Hillview Avenue	7.1	LOC			
Craig Road	264	360	96	Hillview Avenue	Hillcrest Avenue	8	LOC			
Craig Road	360	455	95	Hillcrest Avenue	Davis Road	7.9	LOC			
Davidson Road	0	100	100	West End	McKinley Road	14.11212	LOC			
Davidson Road	100	170	70	McKinley Road	Carey Road	14.6	LOC			
Davidson Road	170	401	231	Carey Road	Walkem Road	13.27922	LOC			
Davis Road	0	64	64	Baker Road	Farrell Road	15.9	COL	OL_50	2017	41,596
Davis Road	64	283	219	Farrell Road	Louise Road	8.99452	COL			
Davis Road	283	339	56	Louise Road	Russell Road	9.1	COL	Mill_50	2019	19,172
Davis Road	339	438	99	Russell Road	McNiven Road	9.2	COL			

Road	From	To	Length (m)	From Description	To Description	Width (m)	Class	Treatment	Year	Cost (\$)
Davis Road	438	538	100	McNiven Road	Craig Road	11.1	COL	Mill_50	2020	44,952
Davis Road	538	750	212	Craig Road	Hall Road	11.6	COL	Mill_50	2018	84,818
Davis Road	750	1166	416	Hall Road	Battie Drive	7.9	COL	Mill_50	2020	136,153
Davis Road	1166	1416	250	Battie Drive	Battie Drive	12	COL	Mill_50	2025	127,483
Davis Road	1416	1561	145	Battie Drive	Parkhill Terrace	11.7	COL			
Davis Road	1561	1625	64	Parkhill Terrace	Dogwood Drive	11.5	COL			
Davis Road	1625	1666	41	Dogwood Drive	Walker Avenue	11.2	COL			
Davis Road	1666	1915	249	Walker Avenue	Mylene Crescent	12.2	COL			
Davis Road	1915	2004	89	Mylene Crescent	Chemainus Road	18.8	COL			
De Frane Court	0	66	66	Southwest End	Delcourt Avenue	14.9	COL			
Delcourt Avenue	0	76	76	Colonia Drive	Wallace Place	10.2	COL	Mill_50	2024	30,116
Delcourt Avenue	76	150	74	Wallace Place	De Frane Court	9.7	COL			
Delcourt Avenue	150	302	152	De Frane Court	Dunsmuir Crescent	9.7	COL			
Dogwood Drive	0	110	110	Davis Road	Arbutus Crescent	11.1	COL			
Dogwood Drive	110	373	263	Arbutus Crescent	Arbutus Crescent	11.7	COL			
Dogwood Drive	373	1003	630	Arbutus Crescent	Holland Creek / Stephenson Street	9.764762	COL			
Dogwood Drive	1003	1526	523	Holland Creek / Stephenson Street	Gifford Road	8.612046	COL	Mill_50	2016	138,144
Dogwood Drive	1526	1637	111	Gifford Road	Belaire Street	12.2	COL	Mill_50	2021	44,807
Dogwood Drive	1637	1782	145	Belaire Street	Bayview Avenue	11.6	COL	Mill_50	2024	58,942
Dogwood Drive	1782	1880	98	Bayview Avenue	Forward Road	11.5	COL	Mill_50	2025	40,315
Dogwood Drive	1880	1984	104	Forward Road	1st Avenue / Methuen Street	10.8	COL	Mill_50	2016	34,235
Douglas Place	0	120	120	Douglas Place 1	Stirling Drive	8.9	COL			
Douglas Place 1	0	58	58	South End	North End	11.21035	COL			
Dunsmuir Crescent	0	265	265	Malone Road	Bickle Drive	12	LOC			
Dunsmuir Crescent	265	376	111	Bickle Drive	Delcourt Avenue	12.6	LOC			
Dunsmuir Crescent	376	488	112	Delcourt Avenue	Coburn Place	10.1	LOC			
Dunsmuir Crescent	488	528	40	Coburn Place	Stillin Drive / Symonds Street	9.6	LOC			
Farrell Road	0	201	201	Southeast End	Stirling Drive	7.198507	LOC			
Farrell Road	201	374	173	Stirling Drive	Davis Road	6.9	LOC			
Forrest Place	0	70	70	Southwest End	Cloke Road	13.4	LOC			
Forward Road	0	119	119	Southeast End	Dogwood Drive	7.1	LOC	OL_50	2021	28,514
Fourmeaux Crescent	0	184	184	Halliday Place	Russell Road	7.9	LOC			
French Street	0	134	134	6th Avenue	5th Avenue	11.9	LOC			
French Street	134	268	134	5th Avenue	4th Avenue	11.9	LOC			
French Street	268	400	132	4th Avenue	3rd Avenue	15.2	LOC			
French Street	400	468	68	3rd Avenue	Northeast End	7.3	LOC	Mill_50	2024	22,038
French Street	469	559	90	Southwest End	1st Avenue	13.5	LOC			
French Street	559	647	88	1st Avenue	Northeast End	13.2	LOC			
Gatacre Street	0	133	133	6th Avenue	5th Avenue	11.5	LOC			

Road	From	To	Length (m)	From Description	To Description	Width (m)	Class	Treatment	Year	Cost (\$)
Gatacre Street	133	266	133	5th Avenue	4th Avenue	11.8	LOC			
Gatacre Street	266	401	135	4th Avenue	3rd Avenue	11.5	LOC			
Gatacre Street	402	473	71	Southwest End	2nd Avenue	6.4	LOC	OL_50	2016	9,997
Gatacre Street	473	559	86	2nd Avenue	Northeast End	8.8	LOC			
Gatacre Street	560	699	139	1st Avenue	Esplanade Avenue	16.1	LOC			
Gifford Road	0	153	153	Dogwood Drive	Bayview Avenue	5.9	LOC	Reclaim	2024	45,135
Gifford Road	153	289	136	Bayview Avenue	Northeast End	7	LOC			
Gill Road	0	95	95	Chemainus Road	Hawley Place	6.5	LOC			
Gill Road	95	249	154	Hawley Place	North End	6.3	LOC			
Gilson Place	0	98	98	Cook Street	Southeast End	10	LOC			
Giovando Way	0	135	135	Cloke Road	Northeast End	9.4	LOC			
Gladden Road	0	314	314	Rocky Creek Road	East End	5.9	LOC	Reclaim	2022	92,630
Glen Avenue	0	218	218	Chemainus Road	Blair Place	11.6	LOC			
Gourlay Place	0	95	95	West End	Louise Road	11.2	LOC			
Greenhorn Place	0	95	95	4th Avenue	Greenhorn Place 1	11.8	LOC			
Greenhorn Place	95	210	115	Greenhorn Place 1	Northwest End	15.2	LOC			
Greenhorn Place 1	0	51	51	Greenhorn Place	East End	14.7	LOC			
Grouhel Road	0	225	225	Christie Road	East End	12.3	LOC			
Hall Road	0	86	86	Hillcrest Avenue	Thetis Drive	10.1	LOC			
Hall Road	86	141	55	Thetis Drive	Davis Road	11.1	LOC			
Hall Road	141	252	111	Davis Road	Louise Road	9.6	LOC			
Halliday Place	0	90	90	Russell Road	Fourmeaux Crescent	7.8	LOC			
Halliday Place	90	214	124	Fourmeaux Crescent	Northeast End	12.7	LOC			
Hambrook Street	0	58	58	Southwest End	Jamison Road	8.8	COL			
Hambrook Street	58	279	221	Jamison Road	4th Avenue Extension	8.8	COL			
Hanington Road	0	136	136	Northwest End	Colonia Drive	9.7	LOC			
Hartley Place	0	174	174	Southwest End	4th Avenue Extension	9.2	LOC			
Hawley Place	0	51	51	Northwest End	Gill Road	6	LOC			
Hayden Place	0	54	54	Colonia Drive	Northeast End	18.5	LOC			
High Street	0	135	135	6th Avenue	5th Avenue	8.2	COL	OL_50	2020	29,425
High Street	135	267	132	5th Avenue	4th Avenue	8	COL	OL_50	2020	28,277
High Street	267	402	135	4th Avenue	3rd Avenue	12.8	COL			
High Street	402	534	132	3rd Avenue	2nd Avenue	14.4	COL			
High Street	534	621	87	2nd Avenue	Market Lane	15	COL			
High Street	621	669	48	Market Lane	1st Avenue	15.9	COL	Mill_50	2018	23,992
High Street	669	808	139	1st Avenue	Esplanade Avenue	16.2	COL	Mill_50	2016	68,635
Hillcrest Avenue	0	202	202	Hall Road	Craig Road	7.6	LOC			
Hillside Avenue	0	214	214	Kitchener Street	Warren Street	4.6	LOC			
Hillview Avenue	0	159	159	West End	Craig Road	8.3	LOC	Reclaim	2019	65,985

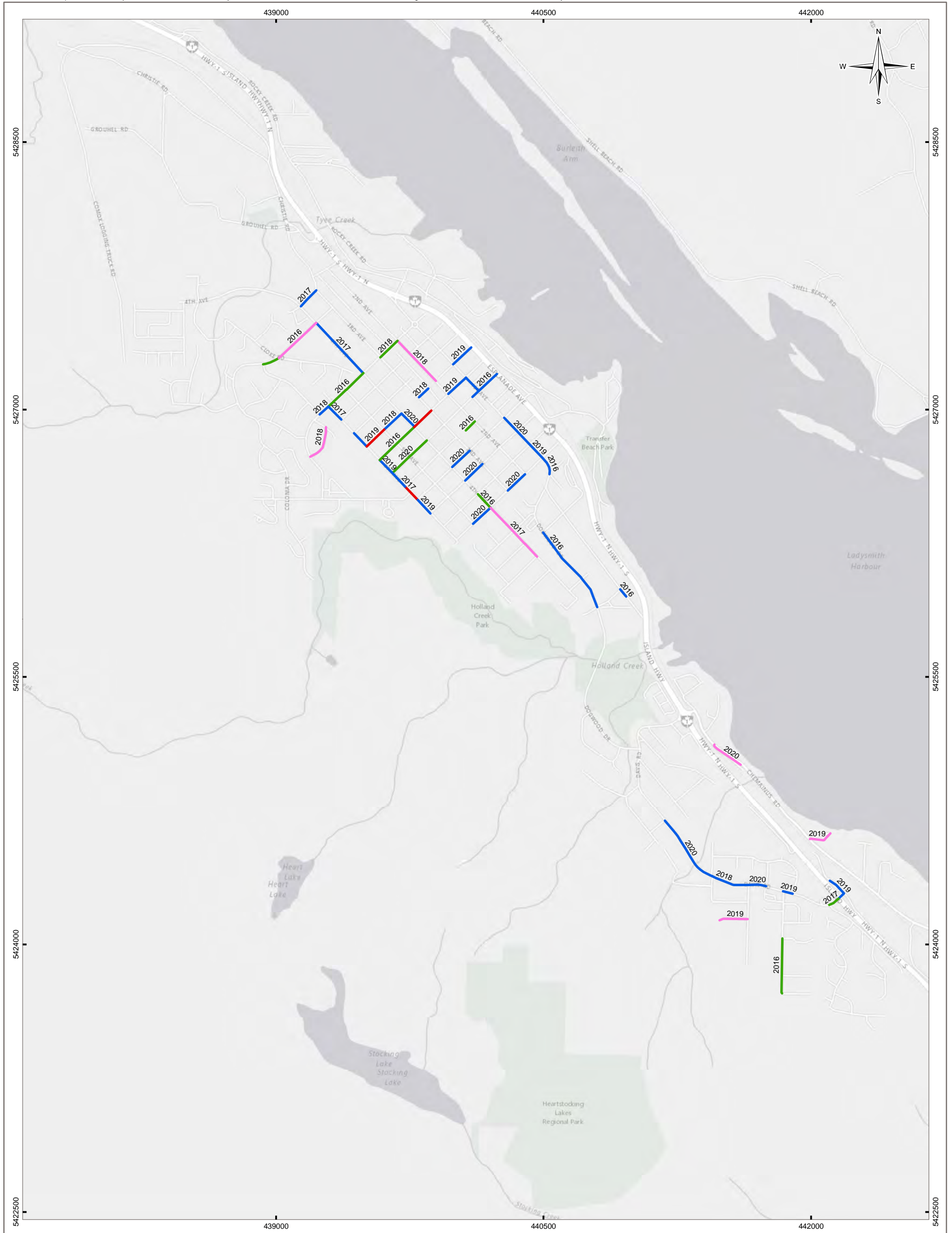
Road	From	To	Length (m)	From Description	To Description	Width (m)	Class	Treatment	Year	Cost (\$)
Holland Creek	0	100	100	Southwest End	Dogwood Drive / Stephenson Street	11.1	LOC			
Hooper Place	0	166	166	Russell Road	East End	10.7	LOC			
Jamison Road	0	100	100	Hambrook Street	Root Street	8.9	LOC			
Jamison Road	100	196	96	Root Street	Belaire Street	9.2	LOC	Reclaim	2021	44,160
Jamison Road	196	296	100	Belaire Street	Northwest End	11.9	LOC			
Jim Cram Drive	0	144	144	South End	Parks Place	10.6	COL			
Jim Cram Drive	144	482	338	Parks Place	North End	10.6	COL			
King Road	0	118	118	Chemainus Road	Roland Road	7.5	LOC	OL_50	2025	34,637
King Road	118	236	118	Roland Road	Roland Road	5.6	LOC			
Kitchener Street	0	136	136	6th Avenue	5th Avenue	12.6	COL	Reconstruct	2019	171,360
Kitchener Street	136	268	132	5th Avenue	4th Avenue	12.5	COL	Mill_50	2018	96,291
Kitchener Street	269	341	72	3rd Avenue	Hillside Avenue	8.1	COL	Mill_50	2018	28,974
Kitchener Street	400	535	135	2nd Avenue	1st Avenue	12.2	COL			
Kitchener Street	535	673	138	1st Avenue	Esplanade Avenue	13.5	COL	Mill_50	2019	72,738
Lions Way	0	98	98	Belaire Street	Northwest End	7.9	LOC	OL_50	2024	19,526
Louise Road	0	136	136	Hall Road	Ashwell Place	8.202941	LOC			
Louise Road	136	224	88	Ashwell Place	Tassin Place	8.6	LOC			
Louise Road	224	312	88	Tassin Place	McNiven Road	9.3	LOC			
Louise Road	312	531	219	McNiven Road	Gourlay Place	11.2	LOC			
Louise Road	531	625	94	Gourlay Place	Davis Road	8.8	LOC			
Ludlow Road	0	162	162	1st Avenue	Rocky Creek Road	23.2	LOC			
Ludlow Road	162	321	159	Rocky Creek Road	Oyster Bay	12.4761	LOC			
Ludlow Road	321	665	344	Oyster Bay	Southeast End	8.7	LOC			
Mackie Road	0	214	214	Colonia Drive	Mackie Road 1	8.98271	LOC			
Mackie Road	214	354	140	Mackie Road 1	Malone Road	9	LOC			
Mackie Road 1	0	49	49	South End	Mackie Road	14.9	LOC			
Malone Road	0	110	110	West End	Sivers Road	12.2	COL			
Malone Road	110	190	80	Sivers Road	Colonia Drive	12.1	COL			
Malone Road	190	389	199	Colonia Drive	Dunsmuir Crescent	12.4	COL			
Malone Road	389	483	94	Dunsmuir Crescent	Mackie Road	12.3	COL			
Malone Road	483	900	417	Mackie Road	6th Avenue	11.9	COL			
Maplewood Way	0	259	259	Birchwood Road	Cedarwood Road	9	LOC	Reconstruct	2023	233,100
Market Lane	0	103	103	High Street	Buller Street	6.3	LOC	OL_50	2023	14,276
McKinley Road	0	133	133	Davidson Road	Oliver Terrace	13	LOC			
McKinley Road	133	337	204	Oliver Terrace	North End	9.5	LOC			
McNiven Road	0	134	134	Davis Road	Louise Road	8.8	LOC			
Methuen Street	0	133	133	6th Avenue	5th Avenue	12.3	COL			
Methuen Street	133	266	133	5th Avenue	4th Avenue / 4th Avenue Extension	12.2	COL	Mill_50	2020	62,472
Methuen Street	266	402	136	4th Avenue / 4th Avenue Extension	3rd Avenue	11.8	COL			



Road	From	To	Length (m)	From Description	To Description	Width (m)	Class	Treatment	Year	Cost (\$)
Methuen Street	402	535	133	3rd Avenue	2nd Avenue	11.9	COL	Mill_50	2020	55,610
Methuen Street	535	669	134	2nd Avenue	1st Avenue / Dogwood Drive	11.9	COL			
Methuen Street	669	789	120	1st Avenue / Dogwood Drive	Northeast End	13.3	COL			
Morgan Road	0	398	398	Northwest End	Southeast End	10.1	LOC			
Mylene Crescent	0	49	49	South End	Strang Drive	10.4	LOC			
Mylene Crescent	49	148	99	Strang Drive	Davis Road	7.3	LOC			
Nash Place	0	109	109	Southwest End	Stillin Drive	9.2	LOC			
Neville Street	0	217	217	Parkhill Terrace	Walker Avenue	9.5	LOC			
Oakwood Road	0	151	151	Birchwood Road	Cedarwood Road	8.1	LOC			
Oakwood Road	151	198	47	Cedarwood Road	4th Avenue	7.8	LOC			
Oliver Terrace	0	113	113	Davidson Road	Poulain Road	11.7	LOC			
Oliver Terrace	113	229	116	Poulain Road	McKinley Road	11.8	LOC			
Oyster Bay	0	818	818	Ludlow Road	PCH	7.064548	LOC			
Parkhill Terrace	0	122	122	Southeast End	Neville Street	9	LOC	Reclaim	2021	54,900
Parkhill Terrace	122	434	312	Neville Street	Davis Road	8.7	LOC			
Parks Place	0	82	82	Jim Cram Drive	East End	11.2	LOC			
Peerless Road	384	535	151	Westdown Road	East End	12.2	LOC			
Poulain Road	0	62	62	Northwest End	Oliver Terrace	12.3	LOC			
Resolution Place	0	122	122	Southeast End	Cook Street	10.4	LOC			
Ridgway Place	0	256	256	Russell Road	West End	7.153906	LOC			
Rigby Place	0	82	82	Belaire Street	Northwest End	7.3	LOC	Mill_50	2021	21,288
Roberts Street	0	133	133	6th Avenue	5th Avenue	12.9	COL			
Roberts Street	133	266	133	5th Avenue	4th Avenue	12.9	COL			
Roberts Street	266	401	135	4th Avenue	3rd Avenue	8	COL	Mill_50	2020	36,898
Roberts Street	401	535	134	3rd Avenue	2nd Avenue	13.5	COL	Mill_50	2022	60,968
Roberts Street	535	668	133	2nd Avenue	1st Avenue	13.9	COL			
Roberts Street	668	807	139	1st Avenue	Esplanade Avenue / Transfer Beach Boulevard	13.7	COL			
Rocky Creek Road	0	942	942	Ludlow Road	Gladden Road	10.7	LOC			
Roland Road	0	274	274	King Road	King Road	5.2	LOC			
Root Street	0	221	221	Jamison Road	4th Avenue Extension	6.8	LOC			
Rothdale Road	0	170	170	Russell Road	East End	10.7	LOC			
Russell Road	0	100	100	Hooper Place	Rothdale Road	6.7	COL	OL_50	2016	18,833
Russell Road	100	308	208	Rothdale Road	Ridgway Place	6.7	COL	OL_50	2016	71,976
Russell Road	308	396	88	Ridgway Place	Halliday Place	6.9	COL	Mill_50	2025	23,548
Russell Road	396	463	67	Halliday Place	Ballou Place	9.6	COL	Mill_50	2022	27,419
Russell Road	463	505	42	Ballou Place	Fourmeaux Crescent	10.71429	COL	Mill_50	2025	17,870
Russell Road	505	572	67	Fourmeaux Crescent	Davis Road	11.3	COL	Mill_50	2023	32,112
Ryan Place	0	288	288	Battie Drive	Northwest End	9.2	LOC			
Sanderson Road	0	133	133	Stirling Drive	Spurling Crescent	7.9	LOC			

Road	From	To	Length (m)	From Description	To Description	Width (m)	Class	Treatment	Year	Cost (\$)
Sanderson Road	133	219	86	Spurling Crescent	Sweetenham Place	8	LOC			
Sanderson Road	219	323	104	Sweetenham Place	East End	8.1	LOC			
Schubert Place	0	60	60	West End	Stirling Drive	12.2	LOC			
Selinger Place	0	152	152	Stirling Drive	North End	9.7	LOC			
Sharp Place	0	70	70	Symonds Street	Northwest End	12.5	LOC			
Short Close	0	80	80	South End	Cloke Road	13.9	LOC			
Sivers Road	0	141	141	Malone Road	Northwest End	13.5	LOC			
Snaith Place	0	54	54	Northwest End	Stirling Drive	12.8	LOC			
South Watts Road	100	462	362		East End	8	LOC			
Spurling Crescent	0	170	170	Stirling Drive	Sanderson Road	7.9	LOC			
Steele Place	0	47	47	Stirling Drive	Southeast End	13.3	LOC			
Stephenson Street	0	68	68	Dogwood Drive / Holland Creek	Clarke Road	7.6	COL			
Stephenson Street	68	166	98	Clarke Road	Bayview Avenue	7.2	COL			
Stephenson Street	166	219	53	Bayview Avenue	Northeast End	7.3	COL			
Stevens Place	0	59	59	Stirling Drive	Northeast End	12.3	LOC			
Stillin Drive	0	89	89	Dunsmuir Crescent / Symonds Street	Nash Place	9	LOC			
Stillin Drive	89	299	210	Nash Place	Brown Drive	8.4	LOC			
Stillin Drive	299	442	143	Brown Drive	Walkem Road	8	LOC	Reclaim	2023	57,200
Stirling Drive	0	47	47	South End	Snaith Place	11.11277	COL			
Stirling Drive	47	91	44	Snaith Place	Spurling Crescent	10.4	COL			
Stirling Drive	91	133	42	Spurling Crescent	Selinger Place	10.6	COL			
Stirling Drive	133	184	51	Selinger Place	Steele Place	11.1	COL			
Stirling Drive	184	332	148	Steele Place	Stevens Place	10.00473	COL			
Stirling Drive	332	416	84	Stevens Place	Schubert Place	10.7	COL			
Stirling Drive	416	509	93	Schubert Place	Douglas Place	9.9	COL			
Stirling Drive	509	565	56	Douglas Place	Farrell Road	10.1	COL			
Strang Drive	0	149	149	Southeast End	Mylene Crescent	8.3	LOC			
Strathcona Road	0	94	94	Christie Road	2nd Avenue	8.2	LOC			
Strathcona Road	94	157	63	2nd Avenue	Northeast End	8.7	LOC			
Stuart Place	0	140	140	Brown Drive	Northwest End	9.6	LOC			
Sweetenham Place	0	113	113	Southeast End	Sanderson Road	10.5	LOC			
Symonds Street	0	66	66	Dunsmuir Crescent / Stillin Drive	6th Avenue	9.8	COL	Mill_50	2018	29,174
Symonds Street	66	201	135	6th Avenue	5th Avenue / Cloke Road	8.768888	COL	OL_50	2016	44,512
Symonds Street	201	337	136	5th Avenue / Cloke Road	4th Avenue	7.6	COL	OL_50	2016	30,354
Symonds Street	337	467	130	4th Avenue	3rd Avenue	7.8	COL	OL_50	2022	29,941
Symonds Street	467	601	134	3rd Avenue	2nd Avenue	12.2	COL	OL_50	2018	47,006
Symonds Street	601	736	135	2nd Avenue	1st Avenue	14.7	COL			
Symonds Street	736	825	89	1st Avenue	Northeast End	15.8	COL			
Tassin Place	0	72	72	South End	Louise Road	12	LOC			

Road	From	To	Length (m)	From Description	To Description	Width (m)	Class	Treatment	Year	Cost (\$)
Taylor	0	119	119	Southwest End	Cloke Road	12.3	LOC			
Therres Crescent	0	277	277	Colonia Drive	Colonia Drive	9.3	LOC			
Thetis Drive	0	415	415	Northwest End	Battie Drive 1	10	LOC			
Thetis Drive	415	635	220	Battie Drive 1	Hall Road	11.8	LOC			
Transfer Beach Boulevard	0	359	359	Esplanade Avenue / Roberts Street	Oyster Bay	12.5	LOC			
Transfer Beach Boulevard	359	569	210	Oyster Bay	Captain Tristan de Konnick Way	10.6	LOC			
Tyrrell Road	0	190	190	Southeast End	Chemainus Road	3.4	LOC	Reclaim	2020	32,300
Walkem Road	0	56	56	Brown Drive / Colonia Drive	Davidson Road	12.6	COL	Mill_50	2022	29,062
Walkem Road	56	407	351	Davidson Road	Stillin Drive	10.8	COL	Mill_50	2025	135,604
Walkem Road	407	502	95	Stillin Drive	Cloke Road	8.1	COL	OL_50	2016	25,760
Walkem Road	502	790	288	Cloke Road	4th Avenue	7.854167	COL	Reclaim	2016	113,100
Walkem Road	790	916	126	4th Avenue	3rd Avenue	7.7	COL	OL_50	2021	29,406
Walker Avenue	0	446	446	Davis Road	Neville Street	7.3	LOC	Reclaim	2021	162,790
Walker Avenue	446	523	77	Neville Street	Southeast End	6.9	LOC	OL_50	2025	11,689
Wallace Place	0	167	167	Delcourt Avenue	Northeast End	11.3	LOC			
Warren Street	0	133	133	6th Avenue	5th Avenue	7.5	LOC			
Warren Street	133	267	134	5th Avenue	4th Avenue	7.2	LOC			
Warren Street	267	398	131	4th Avenue	3rd Avenue	7.1	LOC			
Warren Street	398	483	85	3rd Avenue	Hillside Avenue	6.1	LOC			
Warren Street	484	614	130	Southwest End	1st Avenue	8.7	LOC			
Warren Street	614	729	115	1st Avenue	Northeast End	10.4	LOC	Mill_50	2021	75,769
Westdown Road	0	735	735	Peerless Road	North End	8.2	LOC			
White Street	0	134	134	6th Avenue	5th Avenue	7.4	LOC			
White Street	134	267	133	5th Avenue	4th Avenue	7.8	LOC			
White Street	267	402	135	4th Avenue	3rd Avenue	7.7	LOC			
White Street	402	534	132	3rd Avenue	2nd Avenue	7.8	LOC			
White Street	534	669	135	2nd Avenue	1st Avenue	8.1	LOC			
White Street	669	793	124	1st Avenue	Northeast End	10	LOC			
Wilrose Place	0	148	148	Southwest End	Cloke Road	12	LOC			
Woodley Road	0	134	134	Chemainus Road	Northeast End	6.2	LOC	Reclaim	2019	41,540
4th Avenue To Dogwood	0	95	95			-1	LOC			



**LEGEND**

- Treatment Type**
- Mill 50mm
  - Overlay 50mm
  - Reclaim
  - Reconstruct

**NOTES**  
Base data source: ESRI Basemaps, 2015

**PAVEMENT MANAGEMENT PLAN**

**5 Year Paving Plan  
Based on \$750,000 Annual Budget**

<b>PROJECTION</b> UTM Zone 10		<b>DATUM</b> NAD83		<b>CLIENT</b> Town of Ladysmith	
Scale: 1:20,000					
<b>FILE NO.</b> V33303118-01_Figure-C1_Treatment.mxd					
<b>PROJECT NO.</b> 704-V33303118-01		<b>DWN</b> MR	<b>CKD</b> YL	<b>APVD</b> KR	<b>REV</b> 0
<b>OFFICE</b> TlEBA-VANC			<b>DATE</b> August 20, 2015		
<b>Figure C1</b>					

**STATUS**  
ISSUED FOR USE



# APPENDIX D

## INVENTORY DATA

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Road	From	To	Length (m)	Street_From	Street_To	Width (m)	Class	Pavement_Type	Divided Road	Lanes_Num	Curb	Sidewalk
1st Avenue	0	104	104	Dogwood Drive / Methuen Street	White Street	10.2	COL	HMA	N	2	L	N
1st Avenue	1036	1234	198	Symonds Street	Ludlow Road	15.9	COL	HMA	N	2	B	B
1st Avenue	104	206	102	White Street	Baden-Powell Street	11.8	COL	HMA	N	2	L	N
1st Avenue	206	311	105	Baden-Powell Street	Roberts Street	15.0	COL	HMA	N	2	B	B
1st Avenue	311	413	102	Roberts Street	Gatacre Street	14.9	COL	HMA	N	2	B	B
1st Avenue	413	518	105	Gatacre Street	High Street	14.4	COL	HMA	N	2	B	B
1st Avenue	518	622	104	High Street	Buller Street	15.1	COL	HMA	N	2	B	B
1st Avenue	622	726	104	Buller Street	Kitchener Street	14.2	COL	HMA	N	2	B	B
1st Avenue	726	829	103	Kitchener Street	French Street	14.3	COL	HMA	N	2	B	B
1st Avenue	829	930	101	French Street	Warren Street	14.6	COL	HMA	N	2	B	B
1st Avenue	930	1036	106	Warren Street	Symonds Street	12.8	COL	HMA	N	2	B	B
2nd Avenue	0	102	102	Methuen Street	White Street	7.6	LOC	HMA	N	2	B	N
2nd Avenue	102	206	104	White Street	Baden-Powell Street	7.4	LOC	HMA	N	2	B	N
2nd Avenue	1034	1598	564	Symonds Street	Strathcona Road	7.7	LOC	HMA	N	2	L	N
2nd Avenue	206	310	104	Baden-Powell Street	Roberts Street	7.6	LOC	HMA	N	2	B	N
2nd Avenue	310	408	98	Roberts Street	Gatacre Street	10.0	LOC	HMA	N	2	N	N
2nd Avenue	408	519	111	Gatacre Street	High Street	10.9	LOC	HMA	N	2	B	B
2nd Avenue	519	623	104	High Street	Buller Street	7.5	LOC	HMA	N	2	B	N
2nd Avenue	623	723	100	Buller Street	Kitchener Street	6.3	LOC	HMA	N	2	L	N
2nd Avenue	723	1034	311	Kitchener Street	Symonds Street	7.8	LOC	HMA	N	2	N	N
3rd Avenue	0	103	103	Methuen Street	White Street	7.6	LOC	HMA	N	2	B	N
3rd Avenue	103	207	104	White Street	Baden-Powell Street	7.6	LOC	HMA	N	2	B	N
3rd Avenue	1035	1424	389	Symonds Street	Walkem Road	7.2	LOC	HMA	N	2	R	N
3rd Avenue	1424	1554	130	Walkem Road	Christie Road	8.0	LOC	HMA	N	2	B	N
3rd Avenue	207	310	103	Baden-Powell Street	Roberts Street	5.9	LOC	HMA	N	2	B	N
3rd Avenue	310	415	105	Roberts Street	Gatacre Street	6.3	LOC	HMA	N	2	B	N
3rd Avenue	415	521	106	Gatacre Street	High Street	15.5	LOC	HMA	N	2	B	B
3rd Avenue	521	622	101	High Street	Buller Street	11.6	LOC	HMA	N	2	B	B
3rd Avenue	622	723	101	Buller Street	Kitchener Street	7.1	LOC	HMA	N	2	B	N
3rd Avenue	723	828	105	Kitchener Street	French Street	7.1	LOC	HMA	N	2	B	N
3rd Avenue	828	934	106	French Street	Warren Street	6.0	LOC	HMA	N	2	B	N
3rd Avenue	934	1035	101	Warren Street	Symonds Street	7.3	LOC	HMA	N	2	B	N
4th Avenue	0	104	104	4th Avenue Extension / Methuen Street	White Street	6.8	COL	HMA	N	2	N	N
4th Avenue	1039	1425	386	Symonds Street	Walkem Road	8.6	COL	HMA	N	2	R	R
4th Avenue	104	207	103	White Street	Baden-Powell Street	6.7	COL	HMA	N	2	N	N
4th Avenue	1425	1552	127	Walkem Road	Christie Road / Cook Street	7.6	COL	HMA	N	2	R	R
4th Avenue	1552	2155	603	Christie Road / Cook Street	Churchill Place / Greenhorn Place	8.8	COL	HMA	N	2	N	N
4th Avenue	207	313	106	Baden-Powell Street	Roberts Street	6.8	COL	HMA	N	2	N	N
4th Avenue	2155	2243	88	Churchill Place / Greenhorn Place	Alderwood Drive	13.8	COL	HMA	N	2	B	R

Road	From	To	Length (m)	Street_From	Street_To	Width (m)	Class	Pavement_Type	Divided Road	Lanes_Num	Curb	Sidewalk
4th Avenue	2243	2385	142	Alderwood Drive	Jim Cram Drive	10.9	COL	HMA	N	2	B	R
4th Avenue	2385	2515	130	Jim Cram Drive	Oakwood Road	10.8	COL	Gravel	N	2	N	N
4th Avenue	313	416	103	Roberts Street	Gatacre Street	7.0	COL	HMA	N	2	N	N
4th Avenue	416	520	104	Gatacre Street	High Street	7.6	COL	HMA	N	2	N	N
4th Avenue	520	623	103	High Street	Buller Street	7.4	COL	HMA	N	2	N	N
4th Avenue	623	727	104	Buller Street	Kitchener Street	7.2	COL	HMA	N	2	R	R
4th Avenue	727	831	104	Kitchener Street	French Street	13.9	COL	HMA	N	2	R	R
4th Avenue	831	935	104	French Street	Warren Street	11.0	COL	HMA	N	2	N	N
4th Avenue	935	1039	104	Warren Street	Symonds Street	9.3	COL	HMA	N	2	N	N
4th Avenue Extension	0	356	356	West End	Hartley Place	12.3	LOC	HMA	N	2	B	N
4th Avenue Extension	356	458	102	Hartley Place	Hambrook Street	9.7	LOC	HMA	N	2	B	L
4th Avenue Extension	458	558	100	Hambrook Street	Root Street	7.6	LOC	HMA	N	2	N	N
4th Avenue Extension	558	653	95	Root Street	Belaire Street	7.6	LOC	HMA	N	2	N	N
4th Avenue Extension	653	837	184	Belaire Street	4th Avenue / Methuen Street	7.7	LOC	HMA	N	2	N	N
4th Avenue To Dogwood	0	95	95	4th Avenue	Dogwood	7.5	LOC	HMA	N	2	L	
5th Avenue	0	103	103	Methuen Street	White Street	11.2	LOC	HMA	N	2	B	N
5th Avenue	103	207	104	White Street	Baden-Powell Street	11.2	LOC	HMA	N	2	B	N
5th Avenue	207	310	103	Baden-Powell Street	Roberts Street	10.8	LOC	HMA	N	2	B	N
5th Avenue	310	414	104	Roberts Street	Gatacre Street	6.6	LOC	HMA	N	2	N	N
5th Avenue	414	520	106	Gatacre Street	High Street	7.4	LOC	HMA	N	2	N	N
5th Avenue	520	622	102	High Street	Buller Street	7.1	LOC	HMA	N	2	N	N
5th Avenue	622	727	105	Buller Street	Kitchener Street	6.8	LOC	HMA	N	2	N	N
5th Avenue	727	830	103	Kitchener Street	French Street	11.3	LOC	HMA	N	2	B	N
5th Avenue	830	932	102	French Street	Warren Street	11.6	LOC	HMA	N	2	B	N
5th Avenue	932	1036	104	Warren Street	Symonds Street	11.4	LOC	HMA	N	2	B	N
6th Avenue	0	103	103	Methuen Street	White Street	8.5	COL	HMA	N	2	L	L
6th Avenue	103	207	104	White Street	Baden-Powell Street	8.6	COL	HMA	N	2	L	L
6th Avenue	207	311	104	Baden-Powell Street	Roberts Street	9.3	COL	HMA	N	2	L	L
6th Avenue	311	363	52	Roberts Street	Malone Road	9.9	COL	HMA	N	2	B	B
6th Avenue	363	415	52	Malone Road	Gatacre Street	13.2	COL	HMA	N	2	L	L
6th Avenue	415	519	104	Gatacre Street	High Street	13.6	COL	HMA	N	2	L	L
6th Avenue	519	620	101	High Street	Buller Street	9.7	COL	HMA	N	2	L	L
6th Avenue	620	726	106	Buller Street	Kitchener Street	10.6	COL	HMA	N	2	L	L
6th Avenue	726	829	103	Kitchener Street	French Street	10.7	COL	HMA	N	2	L	L
6th Avenue	829	932	103	French Street	Warren Street	10.8	COL	HMA	N	2	L	L
6th Avenue	932	1036	104	Warren Street	Symonds Street	10.5	COL	HMA	N	2	L	L
Alderwood Drive	0	48	48	South End	Birchwood Road	9.2	LOC	HMA	N	2	B	N
Alderwood Drive	198	246	48	Cedarwood Road	4th Avenue	9.1	LOC	HMA	N	2	B	N
Alderwood Drive	48	198	150	Birchwood Road	Cedarwood Road	9.1	LOC	HMA	N	2	B	N

Road	From	To	Length (m)	Street_From	Street_To	Width (m)	Class	Pavement_Type	Divided Road	Lanes_Num	Curb	Sidewalk
Arbutus Crescent	0	91	91	Dogwood Drive	Betram Place	8.1	LOC	HMA	N	2	B	N
Arbutus Crescent	91	472	381	Betram Place	Dogwood Drive	8.4	LOC	HMA	N	2	B	N
Ashwell Place	0	76	76	South End	Louise Road	11.9	LOC	HMA	N	2	B	R
Baden-Powell Street	0	135	135	6th Avenue	5th Avenue	7.9	COL	HMA	N	2	B	N
Baden-Powell Street	135	269	134	5th Avenue	4th Avenue	7.9	COL	HMA	N	2	B	N
Baden-Powell Street	269	403	134	4th Avenue	3rd Avenue	7.6	COL	HMA	N	2	B	N
Baden-Powell Street	403	535	132	3rd Avenue	2nd Avenue	7.8	COL	HMA	N	2	B	N
Baden-Powell Street	535	620	85	2nd Avenue	Northeast End	7.7	COL	HMA	N	2	B	N
Baden-Powell Street	621	760	139	1st Avenue	Esplanade Avenue	9.3	COL	HMA	N	2	R	N
Baker Road	0	150	150	Davis Road	Northwest End	11.4	COL	HMA	N	2	R	N
Ballou Place	0	125	125	West End	Russell Road	10.2	LOC	HMA	N	2	B	R
Battie Drive	0	363	363	Davis Road	Ryan Place	6.4	LOC	HMA	N	2	N	N
Battie Drive	363	457	94	Ryan Place	Davis Road	10.9	LOC	HMA	N	2	B	N
Battie Drive 1	0	209	209	Thetis Drive	Northwest End	9.8	LOC	HMA	N	2	B	L
Bayview Avenue	0	53	53	Southeast End	Stephenson Street	9.9	COL	HMA	N	2	L	L
Bayview Avenue	53	584	531	Stephenson Street	Gifford Road	7.3	COL	HMA	N	2	L	L
Bayview Avenue	584	753	169	Gifford Road	Dogwood Drive	10.4	COL	HMA	N	2	L	L
Belaire Street	0	113	113	Jamison Road	Lions Way	9.4	LOC	HMA	N	2	L	L
Belaire Street	113	222	109	Lions Way	4th Avenue Extension	9.4	LOC	HMA	N	2	L	L
Belaire Street	222	316	94	4th Avenue Extension	Rigby Place	11.9	LOC	HMA	N	2	B	L
Belaire Street	316	380	64	Rigby Place	Dogwood Drive	13.0	LOC	HMA	N	2	B	L
Betram Place	0	103	103	Southeast End	Arbutus Crescent	10.9	LOC	HMA	N	2	B	N
Bickle Drive	0	204	204	Dunsmuir Crescent	Coburn Place	8.0	LOC	HMA	N	2	N	N
Birchwood Road	0	69	69	Oakwood Road	Maplewood Way	8.8	LOC	HMA	N	2	B	N
Birchwood Road	69	268	199	Maplewood Way	Alderwood Drive	9.0	LOC	HMA	N	2	B	N
Blair Place	0	83	83	West End	Glen Avenue	13.8	LOC	HMA	N	2	B	N
Blair Place	83	127	44	Glen Avenue	East End	12.5	LOC	HMA	N	2	B	N
Brown Drive	0	132	132	Colonia Drive / Walkem Road	Stuart Place	7.5	LOC	HMA	N	2	R	R
Brown Drive	132	287	155	Stuart Place	Stillin Drive	7.6	LOC	HMA	N	2	R	R
Buller Street	0	136	136	6th Avenue	5th Avenue	7.5	COL	HMA	N	2	N	N
Buller Street	136	267	131	5th Avenue	4th Avenue	7.5	COL	HMA	N	2	N	N
Buller Street	267	402	135	4th Avenue	3rd Avenue	11.9	COL	HMA	N	2	L	L
Buller Street	402	533	131	3rd Avenue	2nd Avenue	13.0	COL	HMA	N	2	R	R
Buller Street	533	622	89	2nd Avenue	Market Lane	13.8	COL	HMA	N	2	R	N
Buller Street	622	669	47	Market Lane	1st Avenue	16.3	COL	HMA	N	2	R	R
Buller Street	669	807	138	1st Avenue	Esplanade Avenue	11.8	COL	HMA	N	2	B	N
Cameron Place	0	431	431	Colonia Drive	Colonia Drive	9.4	LOC	HMA	N	2	B	N
Captain Tristan de Konnick Way	0	495	495	Southeast End	Transfer Beach Boulevard	9.1	LOC	HMA	N	2	N	N
Carey Road	0	64	64	Davidson Road	North End	14.7	LOC	HMA	N	2	B	R



Road	From	To	Length (m)	Street_From	Street_To	Width (m)	Class	Pavement_Type	Divided Road	Lanes_Num	Curb	Sidewalk
Cedarwood Road	0	198	198	Oakwood Road	Maplewood Way	7.6	LOC	HMA	N	2	B	N
Cedarwood Road	198	272	74	Maplewood Way	Alderwood Drive	8.8	LOC	HMA	N	2	B	N
Chemainus Road	0	385	385	Glen Avenue	Woodley Road	7.1	COL	HMA	N	2	B	R
Chemainus Road	1143	1232	89	Tyrrell Road	Gill Road	8.1	COL	HMA	N	2	B	R
Chemainus Road	1232	1369	137	Gill Road	King Road	11.6	COL	HMA	N	2	B	R
Chemainus Road	1369	1419	50	King Road	Davis Road	19.9	COL	HMA	N	3	B	B
Chemainus Road	385	1143	758	Woodley Road	Tyrrell Road	8.3	COL	HMA	N	2	B	R
Christie Road	0	124	124	4th Avenue	3rd Avenue	9.8	COL	HMA	N	2	B	B
Christie Road	124	211	87	3rd Avenue	Strathcona Road	10.8	COL	HMA	N	2	R	N
Christie Road	211	534	323	Strathcona Road	Grouhel Road	11.3	COL	HMA	N	2	N	N
Churchill Place	263	369	106		4th Avenue	14.3	LOC	Gravel	N	2	N	N
Clarke Road	0	148	148	Stephenson Street	East End	5.3	LOC	HMA	N	2	N	N
Cloke Road	0	243	243	Symonds Street	Wilrose Place	11.2	LOC	HMA	N	2	B	L
Cloke Road	243	373	130	Wilrose Place	Short Close	9.4	LOC	HMA	N	2	R	N
Cloke Road	373	499	126	Short Close	Walkem Road	7.5	LOC	HMA	N	2	N	N
Cloke Road	499	663	164	Walkem Road	Cook Street	10.3	LOC	HMA	N	2	R	R
Cloke Road	663	724	61	Cook Street	Taylor	9.7	LOC	HMA	N	2	R	R
Cloke Road	724	803	79	Taylor	Forrest Place / Giovando Way	8.8	LOC	HMA	N	2	B	R
Cloke Road	803	846	43	Forrest Place / Giovando Way	Churchill Place	7.6	LOC	HMA	N	2	R	N
Coburn Place	0	80	80	Southeast End	Bickle Drive	13.3	LOC	HMA	N	2	N	N
Coburn Place	80	154	74	Bickle Drive	Dunsmuir Crescent	7.0	LOC	HMA	N	2	L	L
Colonia Drive	0	141	141	Southeast End	Hanington Road	18.4	COL	HMA	N	2	B	B
Colonia Drive	141	230	89	Hanington Road	Hayden Place	18.5	COL	HMA	N	2	B	B
Colonia Drive	230	397	167	Hayden Place	Mackie Road	10.4	COL	HMA	N	2	B	B
Colonia Drive	397	490	93	Mackie Road	Malone Road	12.1	COL	HMA	N	2	B	N
Colonia Drive	490	575	85	Malone Road	Cameron Place	12.4	COL	HMA	N	2	B	N
Colonia Drive	575	658	83	Cameron Place	Therres Crescent	12.8	COL	HMA	N	2	B	N
Colonia Drive	658	751	93	Therres Crescent	Cameron Place	12.5	COL	HMA	N	2	B	N
Colonia Drive	751	840	89	Cameron Place	Therres Crescent	12.6	COL	HMA	N	2	B	N
Colonia Drive	840	991	151	Therres Crescent	Delcourt Avenue	12.5	COL	HMA	N	2	B	N
Colonia Drive	991	1089	98	Delcourt Avenue	Brown Drive / Walkem Road	12.5	COL	HMA	N	2	B	L
Cook Street	0	150	150	Cloke Road	Gilson Place	9.9	LOC	HMA	N	2	B	B
Craig Road	0	264	264	South End	Hillview Avenue	7.1	LOC	HMA	N	2	B	R
Craig Road	264	360	96	Hillview Avenue	Hillcrest Avenue	8.0	LOC	HMA	N	2	R	R
Craig Road	360	455	95	Hillcrest Avenue	Davis Road	7.9	LOC	HMA	N	2	R	R
Davidson Road	0	100	100	West End	McKinley Road	14.1	LOC	HMA	N	2	B	L
Davidson Road	100	170	70	McKinley Road	Carey Road	14.6	LOC	HMA	N	2	B	L
Davidson Road	170	401	231	Carey Road	Walkem Road	13.3	LOC	HMA	N	2	B	N
Davis Road	0	64	64	Baker Road	Farrell Road	15.9	COL	HMA	N	2	N	N

Road	From	To	Length (m)	Street_From	Street_To	Width (m)	Class	Pavement_Type	Divided Road	Lanes_Num	Curb	Sidewalk
Davis Road	1166	1416	250	Battie Drive	Battie Drive	12.0	COL	HMA	N	2	B	R
Davis Road	1416	1561	145	Battie Drive	Parkhill Terrace	11.7	COL	HMA	N	2	B	R
Davis Road	1561	1625	64	Parkhill Terrace	Dogwood Drive	11.5	COL	HMA	N	2	B	B
Davis Road	1625	1666	41	Dogwood Drive	Walker Avenue	11.2	COL	HMA	N	2	B	B
Davis Road	1666	1915	249	Walker Avenue	Mylene Crescent	12.2	COL	HMA	N	2	B	B
Davis Road	1915	2004	89	Mylene Crescent	Chemainus Road	18.8	COL	HMA	N	4	B	B
Davis Road	283	339	56	Louise Road	Russell Road	9.1	COL	HMA	N	2	B	B
Davis Road	339	438	99	Russell Road	McNiven Road	9.2	COL	HMA	N	2	B	B
Davis Road	438	538	100	McNiven Road	Craig Road	11.1	COL	HMA	N	2	B	B
Davis Road	538	750	212	Craig Road	Hall Road	11.6	COL	HMA	N	2	B	B
Davis Road	64	283	219	Farrell Road	Louise Road	9.0	COL	HMA	N	2	L	L
Davis Road	750	1166	416	Hall Road	Battie Drive	7.9	COL	HMA	N	2	L	L
De Frane Court	0	66	66	Southwest End	Delcourt Avenue	14.9	COL	HMA	N	2	B	N
Delcourt Avenue	0	76	76	Colonia Drive	Wallace Place	10.2	COL	HMA	N	2	B	N
Delcourt Avenue	150	302	152	De Frane Court	Dunsmuir Crescent	9.7	COL	HMA	N	2	B	N
Delcourt Avenue	76	150	74	Wallace Place	De Frane Court	9.7	COL	HMA	N	2	B	N
Dogwood Drive	0	110	110	Davis Road	Arbutus Crescent	11.1	COL	HMA	N	2	B	L
Dogwood Drive	1003	1526	523	Holland Creek / Stephenson Street	Gifford Road	8.6	COL	HMA	N	2	L	L
Dogwood Drive	110	373	263	Arbutus Crescent	Arbutus Crescent	11.7	COL	HMA	N	2	B	L
Dogwood Drive	1526	1637	111	Gifford Road	Belaire Street	12.2	COL	HMA	N	2	B	B
Dogwood Drive	1637	1782	145	Belaire Street	Bayview Avenue	11.6	COL	HMA	N	2	B	L
Dogwood Drive	1782	1880	98	Bayview Avenue	Forward Road	11.5	COL	HMA	N	2	B	L
Dogwood Drive	1880	1984	104	Forward Road	1st Avenue / Methuen Street	10.8	COL	HMA	N	2	B	L
Dogwood Drive	373	1003	630	Arbutus Crescent	Holland Creek / Stephenson Street	9.8	COL	HMA	N	2	B	L
Douglas Place	0	120	120	Douglas Place 1	Stirling Drive	8.9	COL	HMA	N	2	B	L
Douglas Place 1	0	58	58	South End	North End	11.2	COL	HMA	N	2	B	N
Dunsmuir Crescent	0	265	265	Malone Road	Bickle Drive	12.0	LOC	HMA	N	2	B	R
Dunsmuir Crescent	265	376	111	Bickle Drive	Delcourt Avenue	12.6	LOC	HMA	N	2	B	Y
Dunsmuir Crescent	376	488	112	Delcourt Avenue	Coburn Place	10.1	LOC	HMA	N	2	L	L
Dunsmuir Crescent	488	528	40	Coburn Place	Stillin Drive / Symonds Street	9.6	LOC	HMA	N	2	L	L
Farrell Road	0	201	201	Southeast End	Stirling Drive	7.2	LOC	HMA	N	2	N	N
Farrell Road	201	374	173	Stirling Drive	Davis Road	6.9	LOC	HMA	N	2	N	N
Forrest Place	0	70	70	Southwest End	Cloke Road	13.4	LOC	HMA	N	2	B	N
Forward Road	0	119	119	Southeast End	Dogwood Drive	7.1	LOC	HMA	N	2	N	N
Fourmeaux Crescent	0	184	184	Halliday Place	Russell Road	7.9	LOC	HMA	N	2	B	L
French Street	0	134	134	6th Avenue	5th Avenue	11.9	LOC	HMA	N	2	R	N
French Street	134	268	134	5th Avenue	4th Avenue	11.9	LOC	HMA	N	2	R	N
French Street	268	400	132	4th Avenue	3rd Avenue	15.2	LOC	HMA	N	2	B	B
French Street	400	468	68	3rd Avenue	Northeast End	7.3	LOC	HMA	N	2	B	N

Road	From	To	Length (m)	Street_From	Street_To	Width (m)	Class	Pavement_Type	Divided Road	Lanes_Num	Curb	Sidewalk
French Street	469	559	90	Southwest End	1st Avenue	13.5	LOC	HMA	N	2	L	L
French Street	559	647	88	1st Avenue	Northeast End	13.2	LOC	HMA	N	2	L	L
Gatacre Street	0	133	133	6th Avenue	5th Avenue	11.5	LOC	HMA	N	2	B	N
Gatacre Street	133	266	133	5th Avenue	4th Avenue	11.8	LOC	HMA	N	2	B	N
Gatacre Street	266	401	135	4th Avenue	3rd Avenue	11.5	LOC	HMA	N	2	B	N
Gatacre Street	402	473	71	Southwest End	2nd Avenue	6.4	LOC	HMA	N	2	N	N
Gatacre Street	473	559	86	2nd Avenue	Northeast End	8.8	LOC	HMA	N	2	B	N
Gatacre Street	560	699	139	1st Avenue	Esplanade Avenue	16.1	LOC	HMA	N	2	B	B
Gifford Road	0	153	153	Dogwood Drive	Bayview Avenue	5.9	LOC	HMA	N	2	N	N
Gifford Road	153	289	136	Bayview Avenue	Northeast End	7.0	LOC	HMA	N	2	L	L
Gill Road	0	95	95	Chemainus Road	Hawley Place	6.5	LOC	HMA	N	2	R	N
Gill Road	95	249	154	Hawley Place	North End	6.3	LOC	HMA	N	2	L	N
Gilson Place	0	98	98	Cook Street	Southeast End	10.0	LOC	HMA	N	2	B	R
Giovando Way	0	135	135	Cloke Road	Northeast End	9.4	LOC	HMA	N	2	B	L
Gladden Road	0	314	314	Rocky Creek Road	East End	5.9	LOC	HMA	N	2	N	N
Glen Avenue	0	218	218	Chemainus Road	Blair Place	11.6	LOC	HMA	N	2	B	N
Gourlay Place	0	95	95	West End	Louise Road	11.2	LOC	HMA	N	2	B	L
Greenhorn Place	0	95	95	4th Avenue	Greenhorn Place 1	11.8	LOC	HMA	N	2	B	L
Greenhorn Place	95	210	115	Greenhorn Place 1	Northwest End	15.2	LOC	HMA	N	2	B	N
Greenhorn Place 1	0	51	51	Greenhorn Place	East End	14.7	LOC	HMA	N	2	B	R
Grouhel Road	0	225	225	Christie Road	East End	12.3	LOC	HMA	N	2	N	N
Hall Road	0	86	86	Hillcrest Avenue	Thetis Drive	10.1	LOC	HMA	N	2	B	R
Hall Road	141	252	111	Davis Road	Louise Road	9.6	LOC	HMA	N	2	B	R
Hall Road	252	301	49	Louise Road	North End	10.4	LOC	Gravel	N	2	N	N
Hall Road	86	141	55	Thetis Drive	Davis Road	11.1	LOC	HMA	N	2	B	R
Halliday Place	0	90	90	Russell Road	Fourmeaux Crescent	7.8	LOC	HMA	N	2	B	L
Halliday Place	90	214	124	Fourmeaux Crescent	Northeast End	12.7	LOC	HMA	N	2	B	L
Hambrook Street	0	58	58	Southwest End	Jamison Road	8.8	COL	HMA	N	2	R	N
Hambrook Street	58	279	221	Jamison Road	4th Avenue Extension	8.8	COL	HMA	N	2	B	N
Hanington Road	0	136	136	Northwest End	Colonia Drive	9.7	LOC	HMA	N	2	B	L
Hartley Place	0	174	174	Southwest End	4th Avenue Extension	9.2	LOC	HMA	N	2	B	R
Hawley Place	0	51	51	Northwest End	Gill Road	6.0	LOC	HMA	N	2	N	N
Hayden Place	0	54	54	Colonia Drive	Northeast End	18.5	LOC	HMA	N	2	B	N
High Street	0	135	135	6th Avenue	5th Avenue	8.2	COL	HMA	N	2	N	N
High Street	135	267	132	5th Avenue	4th Avenue	8.0	COL	HMA	N	2	N	N
High Street	267	402	135	4th Avenue	3rd Avenue	12.8	COL	HMA	N	2	L	L
High Street	402	534	132	3rd Avenue	2nd Avenue	14.4	COL	HMA	N	2	B	B
High Street	534	621	87	2nd Avenue	Market Lane	15.0	COL	HMA	N	2	L	L
High Street	621	669	48	Market Lane	1st Avenue	15.9	COL	HMA	N	2	B	B

Road	From	To	Length (m)	Street_From	Street_To	Width (m)	Class	Pavement_Type	Divided Road	Lanes_Num	Curb	Sidewalk
High Street	669	808	139	1st Avenue	Esplanade Avenue	16.2	COL	HMA	N	2	B	B
Hillcrest Avenue	0	202	202	Hall Road	Craig Road	7.6	LOC	HMA	N	2	B	L
Hillside Avenue	0	214	214	Kitchener Street	Warren Street	4.6	LOC	HMA	N	2	L	N
Hillview Avenue	0	159	159	West End	Craig Road	8.3	LOC	HMA	N	2	N	N
Holland Creek	0	100	100	Southwest End	Dogwood Drive / Stephenson Street	11.1	LOC	HMA	N	2	B	L
Hooper Place	0	166	166	Russell Road	East End	10.7	LOC	HMA	N	2	B	N
Jamison Road	0	100	100	Hambrook Street	Root Street	8.9	LOC	HMA	N	2	N	N
Jamison Road	100	196	96	Root Street	Belaire Street	9.2	LOC	HMA	N	2	N	N
Jamison Road	196	296	100	Belaire Street	Northwest End	11.9	LOC	HMA	N	2	R	R
Jim Cram Drive	0	144	144	South End	Parks Place	10.6	COL	HMA	N	2	B	L
Jim Cram Drive	144	482	338	Parks Place	North End	10.6	COL	HMA	N	2	B	L
King Road	0	118	118	Chemainus Road	Roland Road	7.5	LOC	HMA	N	2	N	N
King Road	118	236	118	Roland Road	Roland Road	5.6	LOC	HMA	N	2	N	N
Kitchener Street	0	136	136	6th Avenue	5th Avenue	12.6	COL	HMA	N	2	B	N
Kitchener Street	136	268	132	5th Avenue	4th Avenue	12.5	COL	HMA	N	2	B	N
Kitchener Street	269	341	72	3rd Avenue	Hillside Avenue	8.1	COL	HMA	N	2	B	N
Kitchener Street	400	535	135	2nd Avenue	1st Avenue	12.2	COL	HMA	N	2	B	N
Kitchener Street	535	673	138	1st Avenue	Esplanade Avenue	13.5	COL	HMA	N	2	B	N
Lions Way	0	98	98	Belaire Street	Northwest End	7.9	LOC	HMA	N	2	N	N
Louise Road	0	136	136	Hall Road	Ashwell Place	8.2	LOC	HMA	N	2	B	R
Louise Road	136	224	88	Ashwell Place	Tassin Place	8.6	LOC	HMA	N	2	B	R
Louise Road	224	312	88	Tassin Place	McNiven Road	9.3	LOC	HMA	N	2	B	R
Louise Road	312	531	219	McNiven Road	Gourlay Place	11.2	LOC	HMA	N	2	B	R
Louise Road	531	625	94	Gourlay Place	Davis Road	8.8	LOC	HMA	N	2	B	R
Ludlow Road	0	162	162	1st Avenue	Rocky Creek Road	23.2	LOC	HMA	N	4	B	R
Ludlow Road	162	321	159	Rocky Creek Road	Oyster Bay	12.5	LOC	HMA	N	2	R	R
Ludlow Road	321	665	344	Oyster Bay	Southeast End	8.7	LOC	HMA	N	2	R	R
Mackie Road	0	214	214	Colonia Drive	Mackie Road 1	9.0	LOC	HMA	N	2	B	N
Mackie Road	214	354	140	Mackie Road 1	Malone Road	9.0	LOC	HMA	N	2	B	N
Mackie Road 1	0	49	49	South End	Mackie Road	14.9	LOC	HMA	N	2	B	N
Malone Road	0	110	110	West End	Sivers Road	12.2	COL	HMA	N	2	B	N
Malone Road	110	190	80	Sivers Road	Colonia Drive	12.1	COL	HMA	N	2	B	N
Malone Road	190	389	199	Colonia Drive	Dunsmuir Crescent	12.4	COL	HMA	N	2	B	L
Malone Road	389	483	94	Dunsmuir Crescent	Mackie Road	12.3	COL	HMA	N	2	B	L
Malone Road	483	900	417	Mackie Road	6th Avenue	11.9	COL	HMA	N	2	B	L
Maplewood Way	0	259	259	Birchwood Road	Cedarwood Road	9.0	LOC	HMA	N	2	B	N
Market Lane	0	103	103	High Street	Buller Street	6.3	LOC	HMA	N	2	N	N
McKinley Road	0	133	133	Davidson Road	Oliver Terrace	13.0	LOC	HMA	N	2	B	R
McKinley Road	133	337	204	Oliver Terrace	North End	9.5	LOC	HMA	N	2	B	R

Road	From	To	Length (m)	Street_From	Street_To	Width (m)	Class	Pavement_Type	Divided Road	Lanes_Num	Curb	Sidewalk
McNiven Road	0	134	134	Davis Road	Louise Road	8.8	LOC	HMA	N	2	B	R
Methuen Street	0	133	133	6th Avenue	5th Avenue	12.3	COL	HMA	N	2	B	L
Methuen Street	133	266	133	5th Avenue	4th Avenue / 4th Avenue Extension	12.2	COL	HMA	N	2	B	N
Methuen Street	266	402	136	4th Avenue / 4th Avenue Extension	3rd Avenue	11.8	COL	HMA	N	2	B	N
Methuen Street	402	535	133	3rd Avenue	2nd Avenue	11.9	COL	HMA	N	2	B	N
Methuen Street	535	669	134	2nd Avenue	1st Avenue / Dogwood Drive	11.9	COL	HMA	N	2	B	N
Methuen Street	669	789	120	1st Avenue / Dogwood Drive	Northeast End	13.3	COL	HMA	N	2	R	N
Morgan Road	0	398	398	Northwest End	Southeast End	10.1	LOC	HMA	N	2	N	N
Mylene Crescent	0	49	49	South End	Strang Drive	10.4	LOC	HMA	N	2	R	N
Mylene Crescent	49	148	99	Strang Drive	Davis Road	7.3	LOC	HMA	N	2	B	L
Nash Place	0	109	109	Southwest End	Stillin Drive	9.2	LOC	HMA	N	2	N	N
Neville Street	0	217	217	Parkhill Terrace	Walker Avenue	9.5	LOC	HMA	N	2	B	N
Oakwood Road	0	151	151	Birchwood Road	Cedarwood Road	8.1	LOC	HMA	N	2	B	N
Oakwood Road	151	198	47	Cedarwood Road	4th Avenue	7.8	LOC	HMA	N	2	B	N
Oliver Terrace	0	113	113	Davidson Road	Poulain Road	11.7	LOC	HMA	N	2	B	L
Oliver Terrace	113	229	116	Poulain Road	McKinley Road	11.8	LOC	HMA	N	2	B	L
Oyster Bay	0	818	818	Ludlow Road	PCH	7.1	LOC	HMA	N	2	N	N
Oyster Bay	818	1166	348	PCH	Transfer Beach Boulevard	11.4	LOC	Gravel	N	2	N	N
Parkhill Terrace	0	122	122	Southeast End	Neville Street	9.0	LOC	HMA	N	2	N	N
Parkhill Terrace	122	434	312	Neville Street	Davis Road	8.7	LOC	HMA	N	2	B	L
Parks Place	0	82	82	Jim Cram Drive	East End	11.2	LOC	HMA	N	2	B	L
Peerless Road	384	535	151	Westdown Road	East End	12.2	LOC	HMA	N	2	N	N
Poulain Road	0	62	62	Northwest End	Oliver Terrace	12.3	LOC	HMA	N	2	B	L
Resolution Place	0	122	122	Southeast End	Cook Street	10.4	LOC	HMA	N	2	B	N
Ridgway Place	0	256	256	Russell Road	West End	7.2	LOC	HMA	N	2	B	N
Rigby Place	0	82	82	Belaire Street	Northwest End	7.3	LOC	HMA	N	2	R	N
Roberts Street	0	133	133	6th Avenue	5th Avenue	12.9	COL	HMA	N	2	B	B
Roberts Street	133	266	133	5th Avenue	4th Avenue	12.9	COL	HMA	N	2	B	B
Roberts Street	266	401	135	4th Avenue	3rd Avenue	8.0	COL	HMA	N	2	B	N
Roberts Street	401	535	134	3rd Avenue	2nd Avenue	13.5	COL	HMA	N	2	R	R
Roberts Street	535	668	133	2nd Avenue	1st Avenue	13.9	COL	HMA	N	2	B	B
Roberts Street	668	807	139	1st Avenue	Canada Avenue / Transfer Beach Boule	13.7	COL	HMA	N	2	B	B
Rocky Creek Road	0	942	942	Ludlow Road	Gladden Road	10.7	LOC	HMA	N	2	B	L
Roland Road	0	274	274	King Road	King Road	5.2	LOC	HMA	N	2	N	N
Root Street	0	221	221	Jamison Road	4th Avenue Extension	6.8	LOC	HMA	N	2	N	N
Rothdale Road	0	170	170	Russell Road	East End	10.7	LOC	HMA	N	2	B	N
Russell Road	0	100	100	Hooper Place	Rothdale Road	6.7	COL	HMA	N	2	N	N
Russell Road	100	308	208	Rothdale Road	Ridgway Place	6.7	COL	HMA	N	2	N	N
Russell Road	308	396	88	Ridgway Place	Halliday Place	6.9	COL	HMA	N	2	R	N

Road	From	To	Length (m)	Street_From	Street_To	Width (m)	Class	Pavement_Type	Divided Road	Lanes_Num	Curb	Sidewalk
Russell Road	396	463	67	Halliday Place	Ballou Place	9.6	COL	HMA	N	2	B	B
Russell Road	463	505	42	Ballou Place	Fourmeaux Crescent	10.7	COL	HMA	N	2	B	B
Russell Road	505	572	67	Fourmeaux Crescent	Davis Road	11.3	COL	HMA	N	2	B	B
Ryan Place	0	288	288	Battie Drive	Northwest End	9.2	LOC	HMA	N	2	B	N
Sanderson Road	0	133	133	Stirling Drive	Spurling Crescent	7.9	LOC	HMA	N	2	B	L
Sanderson Road	133	219	86	Spurling Crescent	Sweetenham Place	8.0	LOC	HMA	N	2	B	L
Sanderson Road	219	323	104	Sweetenham Place	East End	8.1	LOC	HMA	N	2	B	L
Schubert Place	0	60	60	West End	Stirling Drive	12.2	LOC	HMA	N	2	B	L
Selinger Place	0	152	152	Stirling Drive	North End	9.7	LOC	HMA	N	2	B	R
Sharp Place	0	70	70	Symonds Street	Northwest End	12.5	LOC	HMA	N	2	B	B
Short Close	0	80	80	South End	Cloke Road	13.9	LOC	HMA	N	2	B	N
Sivers Road	0	141	141	Malone Road	Northwest End	13.5	LOC	HMA	N	2	B	N
Snaith Place	0	54	54	Northwest End	Stirling Drive	12.8	LOC	HMA	N	2	B	R
South Watts Road	100	462	362		East End	8.0	LOC	HMA	N	2	N	N
Spurling Crescent	0	170	170	Stirling Drive	Sanderson Road	7.9	LOC	HMA	N	2	B	R
Steele Place	0	47	47	Stirling Drive	Southeast End	13.3	LOC	HMA	N	2	B	R
Stephenson Street	0	68	68	Dogwood Drive / Holland Creek	Clarke Road	7.6	COL	HMA	N	2	L	L
Stephenson Street	166	219	53	Bayview Avenue	Northeast End	7.3	COL	HMA	N	2	N	N
Stephenson Street	68	166	98	Clarke Road	Bayview Avenue	7.2	COL	HMA	N	2	L	L
Stevens Place	0	59	59	Stirling Drive	Northeast End	12.3	LOC	HMA	N	2	B	N
Stillin Drive	0	89	89	Dunsmuir Crescent / Symonds Street	Nash Place	9.0	LOC	HMA	N	2	L	L
Stillin Drive	299	442	143	Brown Drive	Walkem Road	8.0	LOC	HMA	N	2	N	N
Stillin Drive	89	299	210	Nash Place	Brown Drive	8.4	LOC	HMA	N	2	L	L
Stirling Drive	0	47	47	South End	Snaith Place	11.1	COL	HMA	N	2	B	B
Stirling Drive	133	184	51	Selinger Place	Steele Place	11.1	COL	HMA	N	2	B	B
Stirling Drive	184	332	148	Steele Place	Stevens Place	10.0	COL	HMA	N	2	B	B
Stirling Drive	332	416	84	Stevens Place	Schubert Place	10.7	COL	HMA	N	2	B	B
Stirling Drive	416	509	93	Schubert Place	Douglas Place	9.9	COL	HMA	N	2	B	B
Stirling Drive	47	91	44	Snaith Place	Spurling Crescent	10.4	COL	HMA	N	2	B	B
Stirling Drive	509	565	56	Douglas Place	Farrell Road	10.1	COL	HMA	N	2	B	B
Stirling Drive	91	133	42	Spurling Crescent	Selinger Place	10.6	COL	HMA	N	2	B	B
Strang Drive	0	149	149	Southeast End	Mylene Crescent	8.3	LOC	HMA	N	2	B	N
Strathcona Road	0	94	94	Christie Road	2nd Avenue	8.2	LOC	HMA	N	2	B	N
Strathcona Road	94	157	63	2nd Avenue	Northeast End	8.7	LOC	HMA	N	2	B	N
Stuart Place	0	140	140	Brown Drive	Northwest End	9.6	LOC	HMA	N	2	N	N
Sweetenham Place	0	113	113	Southeast End	Sanderson Road	10.5	LOC	HMA	N	2	B	R
Symonds Street	0	66	66	Dunsmuir Crescent / Stillin Drive	6th Avenue	9.8	COL	HMA	N	2	L	L
Symonds Street	201	337	136	5th Avenue / Cloke Road	4th Avenue	7.6	COL	HMA	N	2	N	N
Symonds Street	337	467	130	4th Avenue	3rd Avenue	7.8	COL	HMA	N	2	N	N

Road	From	To	Length (m)	Street_From	Street_To	Width (m)	Class	Pavement_Type	Divided Road	Lanes_Num	Curb	Sidewalk
Symonds Street	467	601	134	3rd Avenue	2nd Avenue	12.2	COL	HMA	N	2	N	N
Symonds Street	601	736	135	2nd Avenue	1st Avenue	14.7	COL	HMA	N	2	B	B
Symonds Street	66	201	135	6th Avenue	5th Avenue / Cloke Road	8.8	COL	HMA	N	2	N	N
Symonds Street	736	825	89	1st Avenue	Northeast End	15.8	COL	HMA	N	2	B	B
Tassin Place	0	72	72	South End	Louise Road	12.0	LOC	HMA	N	2	B	R
Taylor	0	119	119	Southwest End	Cloke Road	12.3	LOC	HMA	N	2	B	N
Therres Crescent	0	277	277	Colonia Drive	Colonia Drive	9.3	LOC	HMA	N	2	B	N
Thetis Drive	0	415	415	Northwest End	Battie Drive 1	10.0	LOC	HMA	N	2	B	B
Thetis Drive	415	635	220	Battie Drive 1	Hall Road	11.8	LOC	HMA	N	2	B	N
Thicke Road	0	249	249	West End	East End	8.9	LOC	Gravel	N	2	N	N
Transfer Beach Boulevard	0	359	359	Esplanade Avenue / Roberts Street	Oyster Bay	12.5	LOC	HMA	N	2	B	R
Transfer Beach Boulevard	359	569	210	Oyster Bay	Captain Tristan de Konnick Way	10.6	LOC	HMA	N	2	B	R
Tyrrell Road	0	190	190	Southeast End	Chemainus Road	3.4	LOC	HMA	N	2	N	N
Walkem Road	0	56	56	Brown Drive / Colonia Drive	Davidson Road	12.6	COL	HMA	N	2	B	L
Walkem Road	407	502	95	Stillin Drive	Cloke Road	8.1	COL	HMA	N	2	N	N
Walkem Road	502	790	288	Cloke Road	4th Avenue	7.9	COL	HMA	N	2	N	N
Walkem Road	56	407	351	Davidson Road	Stillin Drive	10.8	COL	HMA	N	2	B	L
Walkem Road	790	916	126	4th Avenue	3rd Avenue	7.7	COL	HMA	N	2	N	N
Walker Avenue	0	446	446	Davis Road	Neville Street	7.3	LOC	HMA	N	2	N	N
Walker Avenue	446	523	77	Neville Street	Southeast End	6.9	LOC	HMA	N	2	N	N
Wallace Place	0	167	167	Delcourt Avenue	Northeast End	11.3	LOC	HMA	N	2	B	N
Warren Street	0	133	133	6th Avenue	5th Avenue	7.5	LOC	HMA	N	2	B	N
Warren Street	133	267	134	5th Avenue	4th Avenue	7.2	LOC	HMA	N	2	B	N
Warren Street	267	398	131	4th Avenue	3rd Avenue	7.1	LOC	HMA	N	2	B	N
Warren Street	398	483	85	3rd Avenue	Hillside Avenue	6.1	LOC	HMA	N	2	L	N
Warren Street	484	614	130	Southwest End	1st Avenue	8.7	LOC	HMA	N	2	B	R
Warren Street	614	729	115	1st Avenue	Northeast End	10.4	LOC	HMA	N	2	B	N
Westdown Road	0	735	735	Peerless Road	North End	8.2	LOC	HMA	N	2	N	N
White Street	0	134	134	6th Avenue	5th Avenue	7.4	LOC	HMA	N	2	B	L
White Street	134	267	133	5th Avenue	4th Avenue	7.8	LOC	HMA	N	2	B	L
White Street	267	402	135	4th Avenue	3rd Avenue	7.7	LOC	HMA	N	2	B	N
White Street	402	534	132	3rd Avenue	2nd Avenue	7.8	LOC	HMA	N	2	B	N
White Street	534	669	135	2nd Avenue	1st Avenue	8.1	LOC	HMA	N	2	B	N
White Street	669	793	124	1st Avenue	Northeast End	10.0	LOC	HMA	N	2	B	N
Wilrose Place	0	148	148	Southwest End	Cloke Road	12.0	LOC	HMA	N	2	B	N
Woodley Road	0	134	134	Chemainus Road	Northeast End	6.2	LOC	HMA	N	2	N	N