



Committee of the Whole Report

Report Number: ENG2023-018
Meeting Date: June 6, 2023
Title: Life Cycle Extension, Local Asphalt Road Section Candidates
Description: 9832307 Local Asphalt Work
Author and Title: Mike Farquhar, Supervisor Technical Services

Recommendation(s):

That Report ENG2021-011, **Life Cycle Extension, Local Asphalt Road Section Candidates**, be received; and

That this recommendation be brought forward to Council for consideration at the next Regular Council meeting.

Department Head: _____

Financial/Legal/HR/Other: _____

Chief Administrative Officer: _____

Background:

This report updates Council on the identified projects for the Life Cycle extension program. The intent of the Life Cycle Extension program as outlined in the 2023 Capital program 9832307, is to maintain and preserve roads sections. This is done through the following programs:

Table 1:

Program Types
Local Asphalt Paving
Local Surface Treatment
Micro-Resurfacing
Slurry Sealing
Crack Sealing

The program utilizes these methods in order to sustain road section segments in a reasonable state until such time as a future capital project is implemented.

The main methods of preservation being used in 9832307 for 2023 will be Crack Sealing, Local Asphalt Paving and Slurry Sealing at different locations throughout the City.

The City's crack sealing program as of the time of writing of this report has been completed on CKL Road 46 and CKL Road 6 north of CKL Road 8 (Glenarm Road). This program focuses on arterial roads within segments that have recently received shoulder rehabilitation.

The slurry seal program focuses on existing hard top roads within a life span of 1-8 years based on condition, to coat and seal in order to extend the surface life. The locations being done this year include Balsam Lake Road, Lifford Road, St. Mary's Road and Hillhead Road.

This report follows the yearly practice of informing Council on the projects within the Life Cycle program as outlined in the resolution below.

CW2020-009

That Report MAYOR 2019-001, Deputy Mayor's 2019 Round Table Meetings on Roads, be received;

That staff report to Council each spring regarding life cycle extension needs in relation to the approved budget.

Carried
CR2021-263

This report will also address the resolution below from the February 14th, 2023 Special Council meeting requiring consideration be given for the following roads

CR2023-104

Moved By Councillor Yeo

Seconded By Deputy Mayor Richardson

That Killarney Bay Road (from Glenarm Road to Balsam Lake), Anderson Drive and Lagoon Drive be brought forward for consideration in the 2023 Lifecycle Extension Program and the five (5) year Capital Roads Needs Study.

Carried

Rationale:

This report is in response to Council resolutions as described in the background of this report, and to identify locations for local asphalt repair under the Life Cycle Extension program 9832207.

Table 2 is a list of hard topped roads identified by Public Works as requiring repair from spring breakup conditions. In addition to those roads are road segments that have been reviewed through Council resolutions and requests and/or are extensions of work started in 2022.

The scope of work for these road sections involve spot repair by resurfacing with an overlay of hot mix asphalt in spot segments of the roads, but is not limited to and can include pulverizing adding gravel and paving. The majority of the work will be done on segments within the described sections in Table 2.

Life Cycle Extension, Local Asphalt Road Section Candidates**Table 2:**

Localized Resurfacing Locations 2023			
Road	From	To	Length (m)
Lagoon Drive	Francis Street E	North End	488
Wychwood Drive E	Francis Street E	Lagoon Drive	251
Ridge Hill Court	Francis Street E	North End	262
Duke Street	Balaclava Street	Head Street	250
Balaclava Street	Duke Street	Dunn Street	305
Sturgeon Crescent	Snug Harbour Road	Balsam Road	325
Mary Street	Cross Street	#66	115
Mary Street	#52	#30	200
Mary Street	#10	Sturgeon Street	75
Sandy Hook Road	125m East of John Street	#678	280
Sandy Hook Road	#711	50m West of #711	50
Sugar Bush Road	CKL 5	West to Gravel	230
Victoria Road (CKL 35)	North Mountain Road	500m North of North Mountain Road	500
French Settlement Road	Bexley/Laxton Boundary	100m North of Bexley/Laxton Boundry	100
French Settlement Road	150m South of Powell Lane	150m North of Powell Lane	300
The Glen Road	Just West of #730	East for 150m	150
The Glen Road	Just West of #730	West for 100m	100
The Glen Road	60m West of #698	80m East of #698	140
Chambers Road	Hwy 35	200m West of Cameron Road	1158
Mark Road	Chambers Road	75m North of Chambers Road	75
Quaker Road	175m West of Taylors Road	400m East to the Bridge	400
Cresswell Road	#45	850m West of #45	850
		Total	6604

The process involved in creating this list involved the review of all road segments as referenced in the Council resolutions mentioned in this report, as well as, lists of road segments submitted by Public Works based on areas of high maintenance concerns. The resolutions and recommendations were then reviewed against the City's current 5 year roads program for timing, as well as, condition need and effectiveness of treatment. Based on this, the list in Table 2 was produced which comprises 6.604 Km of road segments of the 14.093 Km Public Works had identified. Any additional road segments will be considered based on available budget.

The following road sections were reviewed based on the previously mentioned criteria and were not included in Table 2; Anderson Drive and Killarney Bay road. Both of these road sections are included in the City's 5-year plan for resurfacing of roads within the Rural resurfacing program. Anderson Drive in 2026 and Killarney Bay Road in 2027. Consequently, both of these sections can be reviewed on a yearly basis through the capital budget process to assess if the timing of resurfacing needs to change within the 5-year plan. Lagoon Drive was not within the 5 year plan however was identified as a maintenance priority within the list submitted by Public Works and is subsequently within Table 2 for works within the Life Cycle program.

Other Alternatives Considered:

Beginning in 2021, Engineering has tendered the Rural Resurfacing program and Life Cycle Extension program within one tender for reasons of pricing and administration efficiencies as well as coordination of similar work. This tender was issued as a 1-year with 2-year optional renewal to also allow for pricing efficiencies and expediency with commencing with yearly work. Being this is year 3 of this contract, this work has been scheduled. If there are no changes to Table 2 Staff would then implement all Table 2 works through existing contracts.

Alternatively, if Council chooses to fund additional work to be completed within the Life Cycle Extension program, staff would review the next priority sections that had been identified through Council resolutions or by Public Works but not included in Table 2 (due to available budget or priority).

Alignment to Strategic Priorities

The strategic priorities within the 2020-2023 Kawartha Lakes Strategic Plan that report adheres to are:

1. Healthy Environment
2. A Vibrant and Growing Economy
3. Good Government

Financial/Operation Impacts:

The work as listed in Table 2 is estimated to cost approximately \$800,000.00, the budget in 983220701 for asphalt overlay in the Life cycle program is \$865,000.00. We have left the balance for any required Asphalt Cement (AC) price adjustments as stipulated in the contractor's contract. Any balance will be used on the next required priority(s).

Consultations:

Public Works

Department Head email: irojas@kawarthalakes.ca

Department Head: Juan Rojas