



Memorandum

Date: January 6, 2020 **Project No.:** 300043927.0000
Project Name: Addenda to Road Management Plan
Client Name: Township of Melancthon
To: Denise Holmes, AMCT – CAO/Clerk, Township of Melancthon
From: Henry Centen, P. Eng.

Burnside prepared a Road Management Plan (RMP) for the Township of Melancthon, dated October 2019. At the meeting of Township Council held on December 12, 2019, the Council requested that Burnside provide the following, relative to the RMP:

- That the Road Management Plan add the costing of the geo-grid and engineering costs for the 5th Line OS.
- That routine maintenance costs, that were not included in the RMP, be identified, including those that would be part of the second ten-year plan.

This memo provides our response to the Council's requests.

The October RMP proposed a ten-year plan that would result in an improvement to the condition of the **overall** hard-top road network. However, it was acknowledged that the Township's backlog of poorer condition roads was a consideration in not moving towards a more cost-effective lifecycle model (i.e., routine maintenance, preventive maintenance, resurfacing and ultimately rehabilitation improvements), at least in the short term. However, this approach also has the potential to result in increased maintenance costs to implement a "holding strategy" pending future budgets being available for some of the roads. In addition, it is considered desirable to implement the lifecycle improvement model as soon as possible for any of the roads that are rehabilitated within the plan, in order to protect the investment that has been made.

Considering the above factors, the ten-year improvement model in the RMP has been updated to provide a sensitivity analysis that reflects the increased maintenance requirements to achieve the most desirable cost-effective improvements for all hard-top road sections, considered on a section-by-section basis. The resulting budget requirements will vary from year-to-year, considering that the model is triggered by the theoretical "condition" needs (i.e., both maintenance and capital needs).

The revised ten-year improvement plan is attached to this memo, which reflects both of the items requested by Council.

The following is noted relative to the revised plan:

- An additional \$711,354 of costs have been identified for the ten-year plan (i.e. increase of about \$71,200 per year, on average), bringing the proposed budget for maintenance and capital improvements to about 600,000 per year, on average. The cost increase includes both the increased maintenance costs (i.e., routine maintenance and preventive maintenance) and the increased design standard (i.e., geogrid/engineering) for select road sections.

The sensitivity analysis has also been completed for the second ten-year plan (i.e., 2030 to 2039), with the following results:

- A total budget of about \$3,700,000 (i.e., about \$3,000,000 capital improvements and \$700,000 maintenance) is forecasted to be required for this subsequent ten-year plan, or about \$370,000 per year, on average).

We trust that this additional information will inform the Township's requirements as they consider their road improvement requirements and associated budgets going forward.

HBC:

Enclosure(s) Revised Ten-Year Plan

cc: Arunas Kalinauskas, B.Sc

**2019 Township of Melancthon Road Management Plan
Ten-Year Improvement Plan (2020 to 2029) Revised January 2020**

Line No.	Asset ID	Road Name	From	To	Road Length (m)	Road Width (m)	Road Material	Road Environment	Existing AADT Volume (vpd)	Existing AADT Range (vpd)	Count Year	Year 10 (2029) AADT Estimate (vpd)	Road Surface Remaining Useful Life	Pavement Condition Index (PCI)	Priority Guide Number (PGN)	Existing (2019) SCR	Existing (2019) BCR	Improvement Type	Improvement Benchmark Cost (\$/m2) *	Total Improvement Cost	Proposed Improvement Year	Notes	Annual Cost Subtotal
1	147	2nd Line SW	Hwy. 89	300	1,799	6.8	Asphalt	Rural	820	400-999	2019	1,000	2	61.3	51.4	3	3	Rehabilitation (Apply Base Asphalt Only)	\$25.25	\$308,902	2020	Includes geogrid, additional gravel and engineering for 500 metres	\$751,204
2	82	2nd Line SW	250	North Limit	2,350	6.5	Asphalt	Rural	1,127	1000-1999	2019	1,374	2	57.5	91.9	6	2	Rehabilitation (Apply Base Asphalt Only)	\$20.08	\$306,756	2020		
3	194	15th Sideroad	County Rd. 124	Main St.	227	6.5	Asphalt	Rural	125	50-199	Estimate	138	24	98.5	2.2	9	10	Routine Maintenance	\$0.75	\$1,107	2020		
4	176	15th Sideroad	3rd Line	County Rd. 124	1,142	6.5	Asphalt	Rural	125	50-199	Estimate	128	3	80.3	10.2	5	5	Patching	\$0.75	\$5,567	2020		
5	1491	15th Sideroad	Main St.	East	691	6.5	Cold Recycled	Rural	125	50-199	Estimate	138	3	56.8	8.1	10	2	Patching	\$0.75	\$3,369	2020		
6	205	Hunter Pkwy.	County Rd. 124	Apartment Building	291	6.5	Cold Recycled	Semi-Urban	100	50-199	Estimate	110	7	76.0	4.1	10	5	Patching	\$0.75	\$1,419	2020		
7	200	Church St.	Main St.	North Limit	242	4	Cold Recycled	Semi-Urban	60	50-199	Estimate	66	1	54.3	6.3	10	2	Patching	\$0.75	\$726	2020		
8	188	George St.	Addeson St.	Main St.	114	5.5	Cold Recycled	Semi-Urban	50	50-199	Estimate	55	4	76.3	2.4	10	5	Patching	\$0.75	\$470	2020		
9	187	Lloyd St.	Addeson St.	Main St.	110	4.5	Cold Recycled	Semi-Urban	50	50-199	Estimate	55	4	76.3	2.9	10	5	Patching	\$0.75	\$371	2020		
10	195	Mill Ln.	Main St.	End of Road	655	5	Cold Recycled	Semi-Urban	150	50-199	Estimate	166	4	66.3	9.5	10	4	Patching	\$0.75	\$2,456	2020		
11	207	5th Sideroad	3rd Line	County Rd. 124	1,371	6.5	Asphalt	Rural	653	400-999	2019	796	8	86.8	17.1	8	8	Patching	\$0.75	\$6,684	2020		
12	93	3rd Line OS	5th Sideroad	2 km N of 5th Sideroad	2,011	6.5	Asphalt	Rural	493	400-999	2019	601	12	89.3	9.7	8	9	Patching	\$0.75	\$9,804	2020		
13	544	3rd Line OS	County Rd. 17	2 km N of 5th Sideroad	1,048	6.5	Asphalt	Rural	493	400-999	2019	601	8	89.3	9.7	8	9	Patching	\$0.75	\$5,109	2020		
14	1351	2nd Line SW	300	County Rd. 17	1,981	6.7	Asphalt	Rural	812	400-999	Estimate	990	12	98.3	10.2	7	10	Routine Maintenance	\$0.75	\$9,955	2020		
15	1278	2nd Line SW	County Rd. 17	280	2,051	6.5	Asphalt	Rural	812	400-999	Estimate	990	15	87.8	22.8	5	9	Preventive Maintenance	\$4.00	\$53,326	2020		
16	117	2nd Line SW	280	270	2,028	6.5	Asphalt	Rural	812	400-999	2018	990	15	96.9	15.4	9	10	Routine Maintenance	\$0.75	\$9,887	2020		
17	29	260 (Main St.)	Geirson	2nd Line SW	1,526	6.5	Asphalt	Rural	450	400-999	Estimate	497	5	63.0	24.8	5	2	Patching	\$0.75	\$7,439	2020		
18	31	260 (Main St.)	4th Line SW	7th Line SW	2,013	6.5	Asphalt	Rural	250	200-399	Estimate	276	6	63.0	20	5	2	Patching	\$0.75	\$9,813	2020		
19	1507	3rd Line OS	Hwy. 10	5th Sideroad	1650	6.5	Asphalt	Rural	910	1000-1999	2019	1109	15	96.5		8	10	Routine Maintenance	\$0.75	\$8,044	2020		
20	94	5th Line OS	County Rd. 17	Sideroad 280	2,293	6.5	Asphalt	Rural	284	200-399	2019	346	1	41.0	15.6	2	1	Rehabilitation	\$29.70	\$442,610	2021	Includes geogrid, additional gravel and engineering for 750 metres	\$704,974
21	101	5th Line OS	Sideroad 280	4th Line NE	205	6.5	Asphalt	Rural	284	200-399	Estimate	346	1	41.0	15.6	2	1	Rehabilitation	\$20.00	\$26,650	2021		
22	1492	5th Line OS	4th Line NE	15th Sideroad	570	6.5	Asphalt	Rural	250	200-399	Estimate	305	1	41.0	13.8	2	1	Rehabilitation	\$20.00	\$74,100	2021		
23	95A	4th Line OS	County Road 17	Strada Pit North Entrance	1,651	6.5	Asphalt	Rural	125	50-199	Estimate	152	3	80.5	7.8	8	5	Rehabilitation	\$20.00	\$214,630	2021	Since the Strada Pit owner is responsible for paying for improvements to this section, the cost has been excluded from the "Annual Cost Subtotal".	
24	95B	4th Line OS	Strada Pit North Entrance	15th Sideroad	1,400	6.5	Asphalt	Rural	79	50-199	2019	96	3	54.3	4.6	1	1	Revert to Gravel	\$5.76	\$52,416	2021		
25	1490	3rd Line OS	20th Sideroad	County Rd. 21	3,055	6.5	Asphalt	Rural	107	50-199	2019	130	23	97.0	1.9	8	10	Routine Maintenance	\$0.75	\$14,893	2021		
26	1509	2nd Line SW	270	260	2,045	6.6	Asphalt	Rural	835	400-999	2017	1,018	15	95.0	15.6	9	10	Routine Maintenance	\$0.75	\$10,123	2021		
27	81	2nd Line SW	260	250	2,054	6.6	Asphalt	Rural	980	400-999	2016	1,195	15	95.0	18.3	9	10	Routine Maintenance	\$0.75	\$10,167	2021		
28	24	260 (Main St.)	Manitoba	Geirson	159	8	Asphalt	Urban	450	400-999	Estimate	497	11	90.8		9	8	Preventive Maintenance	\$4.00	\$5,088	2021		
29	25	260 (Main St.)	Poulton	Manitoba	74	8	Asphalt	Urban	450	400-999	Estimate	497	11	90.8		9	8	Preventive Maintenance	\$4.00	\$2,368	2021		
30	26	260 (Main St.)	Shook	Poulton	153	8	Asphalt	Urban	450	400-999	Estimate	497	11	90.8		9	8	Preventive Maintenance	\$4.00	\$4,896	2021		
31	107	260 (Main St.)	Hwy. 10	Shook	418	8	Asphalt	Semi-Urban	447	400-999	2019	494	11	90.8		9	8	Preventive Maintenance	\$4.00	\$13,376	2021		
32	147	2nd Line SW	Hwy. 89	300	1,799	6.8	Asphalt	Rural	820	400-999	2019	1,000	2	61.3	51.4	3	3	Resurface (Top Asphalt Only)	\$9.15	\$110,975	2022		
33	82	2nd Line SW	250	North Limit	2,350	6.5	Asphalt	Rural	256	200-399	2019	312	2	57.5	20.9	6	2	Resurface (Top Asphalt Only)	\$9.15	\$139,744	2022		
34	159	5th Line OS	15th Sideroad	Sideroad 270	1,930	6.5	Asphalt	Rural	237	200-399	2018	289	1	41.0	13	2	1	Rehabilitation	\$20.00	\$250,900	2022		
35	1493	5th Line OS	Sideroad 270	6th Line NE	654	6.5	Asphalt	Rural	230	200-399	Estimate	280	1	41.0	12.6	2	1	Rehabilitation	\$38.63	\$164,221	2022	Includes geogrid, additional gravel and engineering for 500 metres	\$686,042
36	1494A	4th Line OS	5th Sideroad	Lot 9/10	2,438	6.5	Asphalt	Rural	300	200-399	Estimate	366	24	98.3	5.7	9	10	Routine Maintenance	\$0.75	\$11,885	2022		
37	1494B	4th Line OS	Lot 9/10	County Rd. 17	750	6.5	Asphalt	Rural	300	200-399	Estimate	366	3	69.5	30.6	3	2	Patching	\$0.75	\$3,656	2022		
38	1274	4th Line OS	Abandon Rail	Hwy. 10	956	6.5	Asphalt	Rural	330	400-999	2017	402	17	88.3		5	9	Patching	\$0.75	\$4,661	2022		
39	1345	20th Sideroad	3rd Line	County Rd. 124	1,378	6.5	Asphalt	Rural	164	50-199	2019	181	24	99.0	2.9	9	10	Routine Maintenance	\$0.75	\$6,718	2023		
40	143	7th Line SW	Hwy. 89	County Rd. 17	853	6.5	Asphalt	Rural	218	200-399	2019	241	5	63.5	16.1	5	3	Revert to Gravel	\$5.76	\$31,936	2023		
41	142	7th Line SW	County Rd. 17	Sideroad 280	2,040	6.5	Asphalt	Rural	200	200-399	Estimate	221	5	63.5	14.8	5	3	Revert to Gravel	\$5.76	\$76,378	2023		
42	111	7th Line SW	Sideroad 280	Sideroad 270	2,033	6.5	Asphalt	Rural	200	200-399	Estimate	221	5	63.5	14.8	3	3	Revert to Gravel	\$5.76	\$76,116	2023		
43	1489A	7th Line SW	Sideroad 270	200 m S Sideroad 260	1,848	6.5	Asphalt	Rural	177	50-199	2019	196	5	63.5	17.3	5	3	Revert to Gravel	\$5.76	\$76,677	2023		
44	161	5th Line OS	20th Sideroad	County Rd. 21	1,577	6.5	Asphalt	Rural	226	200-399	2019	275	3	41.0	12.4	2	1	Rehabilitation	\$29.34	\$300,743	2023	Includes geogrid, additional gravel and engineering for 400 metres	\$704,153
45	160	5th Line OS	6th Line NE	20th Sideroad	466	6.5	Asphalt	Rural	230	200-399	Estimate	280	1	41.0	12.6	2	1	Rehabilitation	\$39.56	\$119,831	2023		
46	1495	4th Line OS	Hwy. 10	5th Sideroad	713	6.5	Asphalt	Rural	300	200-399	Estimate	366	24	98.3	5.7	9	10	Routine Maintenance	\$0.75	\$3,476	2023	Includes geogrid, additional gravel and engineering for entire section	\$524,770
47	185	High St.	William St.	Main St.	170	5.3	Asphalt	Semi-Urban	70	50-199	Estimate	77	24	98.8	1.5	9	10	Routine Maintenance	\$0.75	\$676	2023		
48	201	Charles St. W	Main St.	End of Road	141	7	Asphalt	Semi-Urban	30	0-49	Estimate	33	21	96.5	0.5	10	9	Routine Maintenance	\$0.75	\$740	2023		
49	32	260 (Main St.)	2nd Line SW	4th Line SW	2,228	6.5	Asphalt	Rural	263	200-399	2019	291	6	63.0	21.1	5	2	Patching	\$0.75	\$10,862	2023		
50	1494B	4th Line OS	Lot 9/10	County Rd. 17	750	6.5	Asphalt	Rural	300	200-399	Estimate	366	3	69.5	30.6	3	2	Rehabilitation	\$20.00	\$97,500	2024		
51	176	15th Sideroad	3rd Line	County Rd. 124	1,142	6.5	Asphalt	Rural	125	50-199	Estimate	128	3	80.3	10.2	5	5	Rehabilitation	\$15.38	\$114,200	2024		
52	1491	15th Sideroad	Main St.	East	691	6.5	Cold Recycled	Rural	125	50-199	Estimate	138	3	56.8	8.1	10	2	Rehabilitation	\$20.00	\$89,830	2024		
53	205	Hunter Pkwy.	County Rd. 124	Apartment Building	291	6.5	Cold Recycled	Semi-Urban	100	50-199	Estimate	110	7	76.0	4.1	10	5	Rehabilitation	\$15.38	\$29,100	2024		
54	184	Old Field Ct.	Main St.	End of Road	643	6.5	Asphalt	Semi-Urban	150	50-199	Estimate	166	17	75.6	8.6	5	8	Patching	\$0.75	\$3,135			

**2019 Township of Melancthon Road Management Plan
Ten-Year Improvement Plan (2020 to 2029) Revised January 2020**

Line No.	Asset ID	Road Name	From	To	Road Length (m)	Road Width (m)	Road Material	Road Environment	Existing AADT Volume (vpd)	Existing AADT Range (vpd)	Count Year	Year 10 (2029) AADT Estimate	Road Surface Remaining Useful Life	Pavement Condition Index (PCI)	Priority Guide Number (PGN)	Existing (2019) SCR	Existing (2019) BCR	Improvement Type	Improvement Benchmark Cost (\$/m2) *	Total Improvement Cost	Proposed Improvement Year	Notes	Annual Cost Subtotal
64	207	5th Sideroad	3rd Line	County Rd. 124	1,371	6.5	Asphalt	Rural	653	400-999	2019	796	8	86.8	17.1	8	8	Rehabilitation (Apply Base Asphalt Only)	\$20.08	\$178,943	2025		\$626,093
65	93	3rd Line OS	5th Sideroad	2 km N of 5th Sideroad	2,011	6.5	Asphalt	Rural	493	400-999	2019	601	12	89.3	9.7	8	9	Resurface	\$14.44	\$188,752	2025		
66	544	3rd Line OS	County Rd. 17	2 km N of 5th Sideroad	1,048	6.5	Asphalt	Rural	493	400-999	2019	601	8	89.3	9.7	8	9	Rehabilitation	\$31.54	\$214,840	2025	Includes vertical deficiency correction of \$30,000.	
67	1347	Main St.	County Rd. 124	Oldfield Ct.	692	6.5	Asphalt	Rural	890	400-999	2019	983	24	98.8	16.2	9	10	Routine Maintenance	\$0.75	\$3,374	2025		
68	1346	Main St.	County Rd. 124	Oldfield Ct.	277	6.5	Asphalt	Semi-Urban	900	400-999	Estimate	994	24	98.8	16.2	9	10	Routine Maintenance	\$0.75	\$1,350	2025		
69	1315	Main St.	Fieldway Ct.	High St.	323	6.5	Asphalt	Semi-Urban	900	400-999	Estimate	994	24	98.8	16.2	9	10	Routine Maintenance	\$0.75	\$1,575	2025		
70	1311	Main St.	High St.	Mill St.	120	6.5	Asphalt	Urban	900	400-999	Estimate	994	24	98.8	16.2	9	10	Routine Maintenance	\$0.75	\$585	2025		
71	1310	Main St.	Mill St.	Church St.	214	6.5	Asphalt	Urban	900	400-999	Estimate	994	24	98.8	16.2	9	10	Routine Maintenance	\$0.75	\$1,043	2025		
72	1312	Main St.	Church St.	Charles St.	153	6.5	Asphalt	Urban	900	400-999	Estimate	994	24	98.8	16.2	9	10	Routine Maintenance	\$0.75	\$746	2025		
73	1313	Main St.	Charles St.	George St.	126	6.5	Asphalt	Urban	900	400-999	Estimate	994	24	98.8	16.2	9	10	Routine Maintenance	\$0.75	\$614	2025		
74	1314	Main St.	George St.	Mill Ln.	212	6.5	Asphalt	Urban	900	400-999	Estimate	994	24	98.8	16.2	9	10	Routine Maintenance	\$0.75	\$1,034	2025		
75	193	Main St.	Mill Ln.	15th Sideroad	355	6.5	Asphalt	Semi-Urban	900	400-999	Estimate	994	24	98.8	16.2	9	10	Routine Maintenance	\$0.75	\$1,731	2025		
76	183	Main St.	15th Sideroad	County Rd. 124	366	6.5	Asphalt	Rural	900	400-999	Estimate	994	24	98.8	16.2	9	10	Routine Maintenance	\$0.75	\$1,784	2025		
77	102	3rd Line OS	1.5 km S of 20th Sideroad	20th Sideroad	1522	6.5	Asphalt	Rural	200	200-399	Estimate	244	7	79.3		5	8	Patching	\$0.75	\$7,420	2025		
78	1467	3rd Line OS	15th Sideroad	5 km S of 20th Sideroad	1523	6.5	Asphalt	Rural	200	200-399	Estimate	244	7	79.3		5	8	Patching	\$0.75	\$7,425	2025		
79	96	3rd Line OS	County Rd. 17	15th Sideroad	3052	6.5	Asphalt	Rural	229	200-399	2019	279	8	79.3		5	8	Patching	\$0.75	\$14,878	2025		
80	94	5th Line OS	County Rd. 17	Sideroad 280	2,293	6.5	Asphalt	Rural	284	200-399	2019	346	1	41.0	15.6	2	1	Routine Maintenance	\$0.75	\$11,178	2026		
81	101	5th Line OS	Sideroad 280	4th Line NE	205	6.5	Asphalt	Rural	284	200-399	Estimate	346	1	41.0	15.6	2	1	Routine Maintenance	\$0.75	\$999	2026		
82	1492	5th Line OS	4th Line NE	15th Sideroad	570	6.5	Asphalt	Rural	250	200-399	Estimate	305	1	41.0	13.8	2	1	Routine Maintenance	\$0.75	\$2,779	2026		
83	95A	4th Line OS	County Road 17	Strada Pit North Entrance	1,651	6.5	Asphalt	Rural	125	50-199	Estimate	152	3	80.5	7.8	8	5	Routine Maintenance	\$0.75	\$8,049	2026	Since the Strada Pit owner is responsible for paying for improvements to this section, the cost has been excluded from the "Annual Cost Subtotal".	\$597,518
84	1351	2nd Line SW	300	County Rd. 17	1,981	6.7	Asphalt	Rural	812	400-999	Estimate	990	12	98.3	10.2	7	10	Resurface	\$14.44	\$191,658	2026		
85	1278	2nd Line SW	County Rd. 17	280	2,051	6.5	Asphalt	Rural	812	400-999	Estimate	990	15	87.8	22.8	5	9	Resurface	\$14.44	\$192,507	2026		
86	117	2nd Line SW	280	270	2,028	6.5	Asphalt	Rural	812	400-999	2018	990	15	96.9	15.4	9	10	Resurface	\$14.44	\$190,348	2026		
87	147	2nd Line SW	Hwy. 89	300	1,799	6.8	Asphalt	Rural	820	400-999	2019	1,000	2	61.3	51.4	3	3	Routine Maintenance	\$0.75	\$9,175	2027		
88	82	2nd Line SW	250	North Limit	2,350	6.5	Asphalt	Rural	1,127	1000-1999	2019	1,374	2	57.5	91.9	6	2	Routine Maintenance	\$0.75	\$11,456	2027		
89	194	15th Sideroad	County Rd. 124	Main St.	227	6.5	Asphalt	Rural	125	50-199	Estimate	138	24	98.5	2.2	9	10	Preventive Maintenance	\$3.00	\$4,427	2027		
90	159	5th Line OS	15th Sideroad	Sideroad 270	1,930	6.5	Asphalt	Rural	237	200-399	2018	289	1	41.0	13	2	1	Routine Maintenance	\$0.75	\$9,409	2027		
91	1493	5th Line OS	Sideroad 270	6th Line NE	654	6.5	Asphalt	Rural	230	200-399	Estimate	280	1	41.0	12.6	2	1	Routine Maintenance	\$0.75	\$3,188	2027		
92	1509	2nd Line SW	270	260	2,045	6.6	Asphalt	Rural	835	400-999	2017	1,018	15	95.0	15.6	9	10	Resurface	\$14.44	\$194,897	2027		
93	81	2nd Line SW	260	250	2,054	6.6	Asphalt	Rural	980	400-999	2016	1,195	15	95.0	18.3	9	10	Resurface	\$14.44	\$195,754	2027		
94	207	5th Sideroad	3rd Line	County Rd. 124	1,371	6.5	Asphalt	Rural	653	400-999	2019	796	8	86.8	17.1	8	8	Resurface (Top Asphalt Only)	\$9.15	\$81,540	2027		
95	1507	3rd Line OS	Hwy. 10	5th Sideroad	1650	6.5	Asphalt	Rural	910	1000-1999	2019	1109	15	96.5		8	10	Preventive Maintenance	\$4.00	\$42,900	2027		
96	1490	3rd Line OS	20th Sideroad	County Rd. 21	3,055	6.5	Asphalt	Rural	107	50-199	2019	130	23	97.0	1.9	8	10	Preventive Maintenance	\$4.00	\$79,430	2028		
97	161	5th Line OS	20th Sideroad	County Rd. 21	1,577	6.5	Asphalt	Rural	226	200-399	2019	275	3	41.0	12.4	2	1	Routine Maintenance	\$0.75	\$7,688	2028		
98	160	5th Line OS	6th Line NE	20th Sideroad	466	6.5	Asphalt	Rural	230	200-399	Estimate	280	1	41.0	12.6	2	1	Routine Maintenance	\$0.75	\$2,272	2028		
99	32	260 (Main St.)	2nd Line SW	4th Line SW	2,228	6.5	Asphalt	Rural	263	200-399	2019	291	6	63.0	21.1	5	2	Rehabilitation	\$20.00	\$289,640	2028		
100	29	260 (Main St.)	Geirson	2nd Line SW	1,526	6.5	Asphalt	Rural	450	400-999	Estimate	497	5	63.0	24.8	5	2	Rehabilitation	\$20.00	\$198,380	2028		
101	31	260 (Main St.)	4th Line SW	7th Line SW	2,013	6.5	Asphalt	Rural	250	200-399	Estimate	276	6	63.0	20	5	2	Rehabilitation	\$20.00	\$261,690	2028		
102	1494A	4th Line OS	5th Sideroad	Lot 9/10	2,438	6.5	Asphalt	Rural	300	200-399	Estimate	366	24	98.3	5.7	9	10	Preventive Maintenance	\$4.00	\$63,388	2029		
103	1494B	4th Line OS	Lot 9/10	County Rd. 17	750	6.5	Asphalt	Rural	300	200-399	Estimate	366	3	69.5	30.6	3	2	Routine Maintenance	\$0.75	\$3,656	2029		
104	176	15th Sideroad	3rd Line	County Rd. 124	1,142	6.5	Asphalt	Rural	125	50-199	Estimate	128	3	80.3	10.2	5	5	Routine Maintenance	\$0.75	\$5,567	2029		
105	1491	15th Sideroad	Main St.	East	691	6.5	Cold Recycled	Rural	125	50-199	Estimate	138	3	56.8	8.1	10	2	Routine Maintenance	\$0.75	\$3,369	2029		
106	205	Hunter Pkwy.	County Rd. 124	Apartment Building	291	6.5	Cold Recycled	Semi-Urban	100	50-199	Estimate	110	7	76.0	4.1	10	5	Routine Maintenance	\$0.75	\$1,419	2029		
107	200	Church St.	Main St.	North Limit	242	4	Cold Recycled	Semi-Urban	60	50-199	Estimate	66	1	54.3	6.3	10	2	Routine Maintenance	\$0.75	\$726	2029		
108	188	George St.	Addeson St.	Main St.	114	5.5	Cold Recycled	Semi-Urban	50	50-199	Estimate	55	4	76.3	2.4	10	5	Routine Maintenance	\$0.75	\$740	2029		
109	186	Addeson St.	George St.	Lloyd St.	155	4.5	Cold Recycled	Semi-Urban	50	50-199	Estimate	55	4	76.3	2.9	10	5	Patching	\$0.75	\$523	2029		
110	186	Addeson St.	George St.	Lloyd St.	155	4.5	Cold Recycled	Semi-Urban	50	50-199	Estimate	55	4	76.3	2.9	10	5	Routine Maintenance	\$0.75	\$523	2029		
111	187	Lloyd St.	Addeson St.	Main St.	110	4.5	Cold Recycled	Semi-Urban	50	50-199	Estimate	55	4	76.3	2.9	10	5	Routine Maintenance	\$0.75	\$371	2029		
112	195	Mill Ln.	Main St.	End of Road	655	5	Cold Recycled	Semi-Urban	150	50-199	Estimate	166	4	66.3	9.5	10	4	Routine Maintenance	\$0.75	\$2,456	2029		
113	65	4th Line NE	5th Line OS	County Rd. 21	3,937	6.5	Asphalt	Rural	257	200-399	2019	284	15	68.8	14.2	6	5	Revert to Gravel	\$5.75	\$147,401	2029		
																				\$6,002,109			\$6,002,109

* Benchmark costs in this Table may differ from the benchmark costs shown in the Treatment Matrix. This is to reflect road-section-specific unit cost estimates in the detailed ten-year plan. See the "Notes" field for any specific adjustments.

** Section #72 (4th Line NE between County Road 9 and 1 km north of Sideroad 240) is not recommended for reversion to gravel in the next ten-year period, however is anticipated to warrant reversion to gravel in the 2040-2045 time horizon.