



# The Township of Asphodel-Norwood

## 5 Year Asphalt Plan - Maintenance/Replacement

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### Purpose and Background

During the presentation to Council of the 5 Year Surface Treatment Plan, it was asked by Council to consider the creation of an asphalt plan as well. It has been proven that the surface treatment plan has been a valuable tool annually providing a future scope of work, no surprises during budget preparations and a communication conduit between staff and Council.

Asphalt road surfaces are primarily located within the Village of Norwood, however there are some asphalt road surfaces in other areas of the Township. The first 5 years of the plan focuses on the Village of Norwood due to the fact that is where the majority of the deteriorating asphalt is located.

Objectives of the Plan:

- Bridge communication between Council and staff creating an efficient budget process
- Public awareness of projects
- Have “shovel ready” projects that will transcend transitions within Council.
- Preserve existing road surfaces extending the useful life.
- Replace some deteriorating road surfaces within the Township.

Information within the plan was collected and estimated by Public Works Staff. The plan will be revisited annually to ensure accurate estimates for budgeting purposes.

Group purchasing through Peterborough County will be utilized as much as possible. Similar to the surface treatment program, Townships are welcome to be included in the Counties tender for micro resurfacing.



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### 2018

The first year of the asphalt plan, will focus on maintenance and preservation with the use of a micro-asphalt. With that being said the following areas would be addressed:

#### **Victoria Street from Highway #7 to Alma Street**

- Crack seal any major cracking
- Fill any rutting or obvious low areas with hot mix asphalt
- First apply a scratch coat followed by a finish coat of micro surface
- **\$15,000**

#### **Elm Street from Highway 7 to Queen Street**

- Crack seal any major cracking
- Fill any rutting or obvious low areas with hot mix asphalt
- Adjust sanitary sewer manhole lids to fit road profile and repave around lid
- First apply scratch coat followed by a finish coat of micro surface
- **\$15,000**

Both above sections of asphalt road surface are approximately 225 meters in length. It is staffs opinion that the timing is perfect for these two areas. With no maintenance for preservation these two road surfaces would likely be scheduled for total replacement within the next 5-10 years.



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### 2019

At this point within the timeline, most of the asphalt surfaces are seen to be in reasonable condition and not quite ready to be considered eligible for a maintenance layer. Therefore, it would be possible to move the focus to the removal and replacement of some of the asphalt surfaces that are deteriorated beyond a maintenance layer or micro surface.

#### **Cedar Street from Highway #7 to Queen Street**

- Remove existing asphalt
- Re-gravel, regrade and reshape
- Repave with hot mix asphalt, 50 millimeters of HL 3
- **\$45,000 (approximately)**

#### **Legion Street from Cedar to End**

- Remove existing asphalt
- Re-gravel, regrade and reshape
- Repave with hot mix asphalt, 50 millimeters of HL3
- **\$31,000 (approximately)**

Although not included in the pricing the replacement of any existing water services that cross the named streets should be considered prior to resurfacing.



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### 2020

In 2020 a split between small replacements of existing asphalt and some significant overlays or maintenance layer micro coats for preservation is recommended. Two of the small stretches for replacement would be Mill Street from Highway 7 to just pass the train overpass and Wellington Street from Highway 7 to the construction joint just before County Road 40.

#### **Mill Street from Highway 7 to south of train overpass 75 meters**

- Removal of existing asphalt
- Re-gravel, re grade and re shape
- Repave with 50 mm of HL 3 hot mix asphalt
- **\$14,000 (approximately)**

#### **Wellington Street from Highway 7 to short of County Rd 40, 150 Meters**

- Removal of existing asphalt
- Re-gravel, re grade, and re shape
- Repave with 50mm of HL 3 hot mix asphalt
- **\$30,000 (approximately)**

#### **Micro Coat 2020**

As Queen Street was one of the earlier road reconstructions to be completed within the village that it would be due for an application of protective micro coat. On busier highways where a micro coat is applied the hope is to extend the life of the surface another five years. On a quieter street like Queen it is staffs opinion that a micro surface will surpass the five year extension.

- Crack seal any major cracking
- Fill any rutting's or obvious low areas with hot mix asphalt
- Adjust sanitary sewer manhole lids to fit road profile and repave around lid
- First apply scratch coat followed by a finish coat of micro surface
- **\$40,000 (approximately)**



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### 2021

At this stage of the plan, roads should be monitored and re-evaluated annually. Some road surfaces have the potential for deteriorating quicker than others.

With the Village roads being in relatively good condition it is staffs opinion that the asphalt surface in Asphodel be considered for a micro coat maintenance layer to help extend its lifespan.

#### **Asphodel 3<sup>rd</sup> Line West to County Rd. 38**

- Cut out and repave any rutting with hot mix asphalt
- Crack seal all cracks that are occurring
- Apply a micro scratch coat
- Apply a final micro surface coat
- **\$65,000 (approximately)**



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### 2022

This far out in the timeline, there are two potential candidates left for a micro surface, the, Douro-Dummer/Asphodel Boundary from County Road 40 to the 11<sup>th</sup> line and Alma Street from King Street to County Road 42.

The Boundary project is quite significant for a micro coat however the cost is shared with the neighboring Township.

Below is the pricing for each project, the completion would depend on the condition which would be judged the year prior for budget preparations. Also, the completion of the boundary road would also be dependent on the cooperation with Douro-Dummer for cost sharing.

#### **Douro-Dummer/Asphodel-Norwood Boundary**

- Install a perforated big “O” sub drain in swamp section from Ouse River west 300 meters
- Repair any rutting or severe pot holes with hot mix asphalt
- Crack seal all cracks occurring
- Apply scratch coat micro
- Apply final surface micro coat
- **Total Project: \$150,000 (approximately)**
- **Asphodel-Norwood’s Portion \$75,000 (approximately)**

#### **Alma Street from King Street to County Road 42**

- Repair any rutting or potholes with hot mix asphalt
- Crack seal all cracks occurring
- Apply Scratch coat micro
- Apply final surface micro coat
- **\$50,000**



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### Summary

The timing for this plan is considered to be good with the condition of the existing asphalts, and today's micro technologies help extend the lifespans so well.

The prices used to figure out the estimates for this plan were given to staff from Peterborough County representatives from their engineering department. It was also verified that the Township can be included in the Peterborough County Micro Surface Tender just like the Surface Treatment Tender.

This plan goes beyond the surface treatment plan by two years. The 2 plans will work side by side for budget purposes annually.

As stressed throughout the plan, the roads named will be monitored annually and may need to be altered based on condition.