

## Pothole Repairs – Arterial Roadways (A. Sohi)

### Recommendation:

That the March 13, 2013, Transportation Services report 2013TS3886, be received for information.

### Report Summary

**This report responds to the inquiry made at the February 27, 2013, Transportation Committee meeting and outlines an arterial road mill and overlay program for 2013 and proposes a financing mechanism.**

### Previous Council/Committee Action

At the February 27, 2013, Transportation Committee meeting, Councillor A. Sohi made the following inquiry:

Due to the combination of early snowfall and freeze/thaw conditions, road conditions this spring have required an increased effort to address pothole repairs, particularly on arterial roadways. In past years with this combination of winter conditions, the City has undertaken a program of mill and overlay to address deteriorated roadways and ensure that the life of roadway infrastructure is cost effectively extended.

Please provide a report for Transportation Committee to refer to the March 20, 2013, City Council meeting, that outlines city wide locations for an arterial mill

and overlay program of \$10 to \$12 million that could be implemented in 2013.

### Report

The City has a roadway network totaling approximately 44 million square metres. In order to ensure overall roadway condition is maintained it is necessary to undertake rehabilitation, including mill and overlay work, at appropriate points in the infrastructure life cycle to optimize the life cycle costing. While it is necessary to supplement planned rehabilitation work with unscheduled maintenance, such as pothole repairs and spot paving, the most effective measures are appropriate rehabilitation programs at the appropriate intervals.

One of the most cost effective programs is mill and overlay, targeting roadways that have reached a point where significant unscheduled maintenance activity is required to maintain serviceable condition. In some cases the roadway condition may be deteriorated to a point where mill and overlay is necessary to extend the roadway life until funds are available for a more extensive reconstruction program. Mill and overlay programs, in addition to being cost effective, can be implemented quickly and require limited duration of traffic interruptions and closures to complete.

While the Neighbourhood Renewal Program provides a basis for meeting the needs for local roadways and collector/bus routes, funding for the arterial roadway rehabilitation program is limited and overall funding levels within the 2012-2014 approved capital budget are being stretched to meet the needs for mill and overlay, more

extensive roadway rehabilitation and reconstruction of a limited number of roadways. Injection of an additional \$10 to \$12 million will provide the opportunity for a significant improvement in condition on some of the worst roadways, and will avoid the ongoing requirement for pothole repairs on those roadways in 2013 and future years. Past programs implemented in 2007 and 2008 achieved significant benefit. It is possible to include these locations within the 2013 work program primarily through contracted work but also supplemented by City forces for certain locations and some deteriorated intersections.

The 2013 program has been developed considering the following objectives:

- Ensure city wide locations
- Ensure that any utility conflicts are addressed
- Minimize impact of construction on parallel routes and consider opportunities to align with other scheduled roadway work on the same corridor.

### **Corporate Outcomes**

- The Way We Move strategic goal of a well maintained infrastructure

### **Budget/Financial Implications**

Funding should come from within the Transportation Roads Projects approved in 2012 – 2014 Capital budget and should be identified as funding transfer in the Spring Supplementary Capital Budget Adjustment in April 2013. The funding levels for the Arterial Roadway Rehabilitation for 2015 – 2018 will be evaluated during the Capital Budget process.

### **Others Reviewing this Report**

- L. Rosen, Chief Financial Officer and Treasurer