



**COMMUNITY SERVICES – ENGINEERING SERVICES**  
TOWN OF NEWMARKET  
395 Mulock Drive  
P.O. Box 328  
Newmarket, ON L3Y 4X7

www.newmarket.ca  
info@newmarket.ca  
905.895.5193

March 14, 2014

**COMMUNITY SERVICES COMMISSION  
JOINT ENGINEERING SERVICES & PUBLIC WORKS SERVICES  
INFORMATION REPORT ES/PWS-2014-14**

TO: Mayor and Members of Council

COPY: Bob Shelton, P.Eng., CAO  
Rob Prentice, Commissioner of Development and Infrastructure Services  
Anita Moore, Commissioner of Corporate and Financial Services  
Members of OLT

SUBJECT: 2014 Pavement Management Program

ORIGIN: Director, Engineering Services & Director, Public Works Services

---

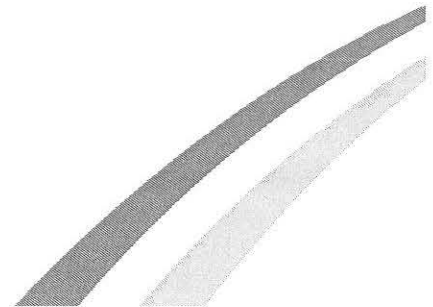
**COMMENTS**

The purpose of this report is to provide Town Council with information on the 2014 Pavement Management Program. The list of prioritized road resurfacing candidates to be completed in 2014 is appended to this report. The final list of candidate streets is subject to receipt of acceptable tender pricing within the approved capital budget.

At the Special Committee of the Whole's 2012 Budget meeting held on Thursday December 8<sup>th</sup>, 2011, the Committee of the Whole considered Joint CAO & Community Services Commission "Engineering Services and Public Works Services Report ES 2011-105" dated December 5, 2011 regarding the "Alternate Pavement Management Program".

In accordance with Town Council's adoption of the recommendations found in Joint CAO & CSC Report ES 2011-105, the attached list provides the road candidates for the 2014 Pavement Management Program. These were determined from the prioritized list of road resurfacing needs found in the current 2013 Roads Needs Study and were subsequently confirmed in the field by the Manager of Capital Projects, the Manager of Operations and the Roads Supervisor. The field confirmation also included a review of the known condition of underground services, specifically water and wastewater issues, to further refine the priorities.

Included in the pavement management work will be the repair and adjustment of existing catchbasins and manholes, spot repairs of the curbs to improve drainage, spot repairs to cracked sidewalk, removal and replacement of base course asphalt in selected areas, removal of the top course of asphalt, placement of a new lift of top course asphalt and restoration of disturbed areas. Other than sidewalk repair there is no new sidewalk installation included in the program.



It has been determined that ductile iron watermain pipe exists under six of the eleven candidates for resurfacing in 2014. In order to prolong the life of this type of watermain and also to minimize risk to the new surface of those roads once they are repaved, cathodic protection will be included in the program. Cathodic protection involves installing anodes made of a more vulnerable type of metal onto the existing watermain, thereby creating a "sacrificial" site for corrosion instead of the pipe itself. The sacrificial anode causes active corrosion sites on the pipe to become passive and therefore, the anode corrodes instead of the pipe. Anodes last between 15 to 25 years. After this, they should be replaced. Cathodic protection has been in use for several decades and it is an attractive alternative to the disruption and much higher cost of having to replace a watermain in its entirety as a result of corrosion.

In order to ensure that resurfacing is the right treatment for the roads identified, staff will be completing subsurface investigations to determine the integrity of the base underneath the road.

In addition to the Pavement Management Program, staff also needs to allocate funding to the 2014 Road Reconstruction program. Srigley Road and Second Street are both scheduled for reconstruction in 2014. Therefore, staff has re-allocated \$350,000 from the 2014 Road Resurfacing budget towards those two projects. This project is ready to be tendered and will be advertised in early April 2014

### **BUSINESS PLAN AND STRATEGIC PLAN LINKAGES**

- Well Equipped and Managed...provides a thorough and timely consideration of applications for development and redevelopment in accordance with all statutory requirements;
- Well Planned and Connected...continues to improve the quality of the road network within the Town of Newmarket.

### **CONSULTATION**

There is no public consultation required for this information report. All property owners and residents located on the final list of road resurfacing candidate streets will be notified in advance of the anticipated pavement resurfacing works schedule for their street.

### **BUDGET IMPACT**

The approved 2014 Pavement Management Program combines the budget amount of \$1,000,000.00, funded from the Asset Replacement Fund (ARF), and the 2014 Annual Road Resurfacing Program in the amount of \$310,000.00, funded from the Operating Budget. Subtracting the funds re-allocated to the 2014 Road Reconstruction projects provides a total 2014 Road Resurfacing Program budget of \$960,000. The final list of road resurfacing candidates is subject to receipt of acceptable tender pricing within the approved 2014 capital budget. In moving forward to the 2015 budget, staff will be requesting funds to include cathodic protection as part of the pavement management program on an annual basis.

**CONTACT**

For more information on this report, please contact: Rachel Prudhomme, M.Sc., P.Eng., Director, Engineering Services at Ext: 2501 or via email to [rprudhomme@newmarket.ca](mailto:rprudhomme@newmarket.ca) , or Chris Kalimootoo, P.Eng, Director, Public Works Services at Ext 2551, or via email to [ckalimootoo@newmarket.ca](mailto:ckalimootoo@newmarket.ca).



Rachel Prudhomme, M.Sc., P.Eng  
Director, Engineering Services



Chris Kalimootoo, BA, P.Eng., MPA, PMP  
Director, Public Works Services



R. Prentice  
Commissioner of Community Services

MJG

**2014 PAVEMENT MANAGEMENT PROGRAM**

**ROAD RESURFACING CANDIDATES\***

<b>PROJECT LOCATIONS</b>			
<b>STREET</b>	<b>TO</b>	<b>FROM</b>	<b>CATHODIC PROTECTION</b>
Adam Pl	End	End	Yes
Borland Crt	Alex Doner Dr.	End	
Brooks Howard Crt	Ashworth Dr	End	
Buckingham Rd	London Rd	London Rd	Yes
Chester Ave	Briston Rd	Burford St	Yes
Haines Rd	End	End	
Jacarandah Dr	North of Janette	170m West of Leslie	Yes
Luesby Lane	Jacarandah Dr	Leslie Valley Dr	
Otton Rd	Alex Doner Dr	Borland Dr	
Wakefield Pl	Harewood Blvd	End	Yes
William Roe Blvd	Sandford St	Cane Pkwy	Yes

**\*All subject to acceptable tender prices within approved 2014 capital budget.**