

## **COMMITTEE OF THE WHOLE - SEPTEMBER 29, 2009**

### **SLOPE FAILURE – CLARENCE STREET AT WYCLIFFE AVENUE**

#### **Recommendation**

The Commissioner of Engineering and Public Works recommends that:

1. URS Canada Inc. be retained to provide initial consulting services to undertake a review of the failed area and provide options to stabilize the slope failure until a detailed assessment of the ravine area can be completed and a slope stabilization plan for this area be developed; and,
2. Council be advised that the Public Works Operating budget for summer road maintenance may be overspent as a result of the emergency works that may be required to temporarily stabilize this slope failure.

#### **Contribution to Sustainability**

Undertaking these emergency repairs is essential to preventing further slope failure of the area.

#### **Economic Impact**

The total economic impact of this work is not yet known. The initial consulting costs have been estimated to be approximately \$20,000 to review the slope failure, provide a temporary remedial course of action, and cost estimates to stabilize the slope where it has currently failed. The Engineering Services Department has submitted a Capital Project request in the 2010 Draft Capital Budget in the estimated amount of approximately \$593,000 which is anticipated to be sufficient to undertake the works required to stabilize the entire slope area for the long term.

#### **Communications Plan**

N/A

#### **Purpose**

To approve the retention of URS Canada Inc. to provide consulting services to investigate the slope failure on Clarence Street, and to recommend appropriate temporary remedial measures. It is also the purpose of this report to advise Council that the expenditures necessary to temporarily stabilize the slope may have a negative impact on the Public Works Department's budget.

#### **Background - Analysis and Options**

At the intersection of Clarence Street and Wycliffe Avenue, the slope on the west side of Clarence Street has failed, resulting in the sidewalk and the embankment sliding into the ravine area. A site review of this area by Public Works and Engineering Services staff shows that a similar condition may occur slightly downstream from this area if left unattended.

As the sidewalk has already been impacted, and there is an immediate potential for the road to be impacted by this slope failure, it is essential that emergency temporary works be undertaken to stabilize the slope. A consultant is required to undertake a review and provide a plan of action to prevent further slope failure in the affected area. On a long term basis, the other area of potential failure also needs to be addressed before a similar conditions occurs downstream.

At this time, the costs to perform the temporary slope stabilization are not known; however, this failure was not a foreseeable issue and no funds have been specifically allotted to perform these emergency repairs. As such, it is important for Council to be aware that undertaking this emergency repair may negatively impact the Public Works 2009 Operating Budget. Once cost estimates are known, Council will be advised of the impact.

### **Relationship to Vaughan Vision 2020/Strategic Plan**

This report is consistent with the priorities previously set by Council and ties into Vaughan Vision 20/20 as follows:

Goal:	Service Excellence
Objective:	Enhance and Ensure Community Safety, Health & Wellness
Goal:	Management Excellence
Objective:	Maintain Assets & Infrastructure Integrity

### **Regional Implications**

There are no regional implications of this work being undertaken.

### **Conclusion**

In order to temporarily stabilize the failed slope on Clarence Street, it is recommended that URS Canada Inc. be retained to review the area and provide a course of action to temporarily stop further failure of the slope.

A more detailed review will need to be undertaken in order to develop the long term solution to dealing with this failure, and the areas of future failure, along this slope. Funds to address this long term solution have been submitted as part of the 2010 Capital Budget process.

As the costs to perform these emergency repairs are not yet known, and no funds were specifically budgeted to deal with this issue, it is prudent to advise Council now that these temporary emergency repairs may negatively impact the 2009 Public Works budget. Once the temporary stabilization costs are known, Council will be advised of this impact.

### **Attachments**

Location Map

### **Report prepared by:**

Brian T. Anthony  
Jack Graziosi

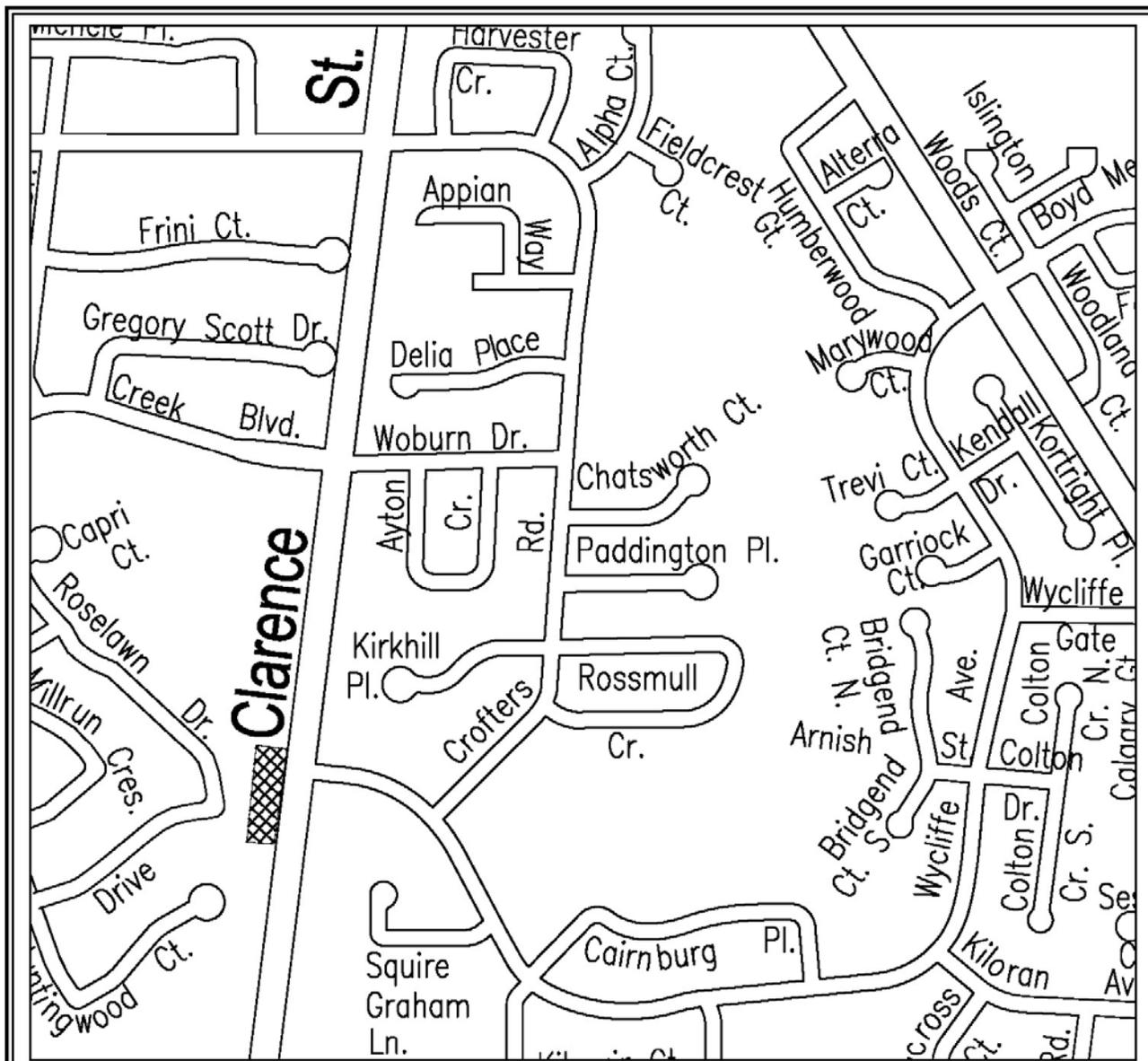
Respectfully submitted,

Bill Robinson, P. Eng  
Commissioner of Engineering and Public Works

Brian T. Anthony, CRS-S, C. Tech  
Director of Public Works

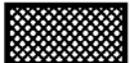
Jack Graziosi, P. Eng  
Director of Engineering Services

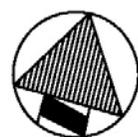
# LOCATION MAP



## CLARENCE STREET SLOPE FAILURE

### LEGEND

 SUBJECT LANDS



NOT TO SCALE