

## **COMMITTEE OF THE WHOLE – JANUARY 11, 2011**

### **TEMPORARY ROAD CLOSURE HUNTINGTON ROAD FROM RUTHERFORD ROAD TO MCGILLIVRAY ROAD TRUNK SANITARY SEWER CONSTRUCTION WARD 2**

#### **Recommendation**

The Commissioner of Engineering and Public Works recommends that the necessary by-law be enacted authorizing the temporary closure of Huntington Road between Rutherford Road and McGillivray Road from approximately February 1, 2011 to May 31, 2011 to facilitate the timely construction of a segment of the proposed trunk sanitary sewer extension that will ultimately service development in the West Vaughan Employment Area and portions of Kleinburg/Nashville Community by Huntington Landowners Trustee Inc., subject to the City and the Region of York being satisfied that the proposed construction staging of the sewer works will not impact the construction of the proposed Regional trunk watermain on Huntington Road, which is to be in-service by January 2012.

#### **Economic Impact**

There are no immediate economic impacts resulting from the adoption of this report. All costs associated with the proposed sewer works and road closure will be borne by the developers group (Huntington Landowners Trustee Inc.).

#### **Communications Plan**

A comprehensive communication plan will be implemented to inform all stakeholders of the proposed temporary Huntington Road closure and related detour routes. This communication plan will include written notification of the road closure to the area property owners and stakeholders including emergency public service agencies (police, fire and ambulance) and public and school transit authorities. In addition, an appropriate advanced notice will be advertised in the local newspapers advising the general public of the proposed road closure.

Access Vaughan will be provided with information regarding the closure and associated contact information in order to effectively respond to inquiries from the general public. The contractor will be responsible for the installation and maintenance of all barricades and construction signage in order to provide pedestrian safety and local access around the construction area. The appropriately worded road side signage will be installed a minimum of two weeks prior to the road closure as a means of informing motorists of the temporary road closure in accordance with the Ontario Traffic Manual, Book 7.

Access to six properties along this section of Huntington Road will be directly affected by the road closure. The owners of these properties will be contacted directly and arrangements made to ensure that local access is maintained at all times during the road closure period.

The proposed sewer construction and the associated temporary road closure are being coordinated with the Region of York.

#### **Purpose**

The purpose of this report is to seek Council's approval of the temporary closure of Huntington Road between Rutherford Road and McGillivray Road to facilitate the timely construction of a proposed deep trunk sanitary sewer on Huntington Road in advance of the Regional trunk watermain construction.

## **Background – Analysis and Options**

The western part of the West Vaughan Employment Area and a portion of the development in the Kleinburg/Nashville Community are proposed to be serviced by the northerly extension of the existing 750 mm diameter trunk sanitary sewer located on Huntington Road at Trade Valley Road as shown on Attachment No.1. This trunk sewer extension will generally be located approximately 1.5 metres east of the existing center line of the road and have a depth ranging between 10 and 12 metres deep. The development in the Kleinburg/Nashville Community is also dependant on the completion of water system improvements including the installation of a new Regional 750mm diameter trunk supply watermain on Huntington Road. This trunk watermain is to be connected to the York-Peel Feedermain at Rutherford Road and extended northerly on Huntington Road to Nashville Road. The Region of York intends to tender the construction contract for this trunk watermain in January 2011 and award the contract in February 2011. Construction of the watermain should commence at the end of February and take 250 working days (eleven months) to complete. Accordingly, the expected in-service date of this Regional trunk watermain is January 2012.

Given the location and depth of the proposed trunk sanitary sewer on Huntington Road, the size of the open cut excavation will, in many locations, extend the full width of the traveled roadway. Accordingly, it is advantageous to construct the trunk sanitary sewer in advance of the trunk watermain. If the watermain was installed before the sewer then there is a real risk that the watermain could be exposed to undermining during the sewer construction, which could result in a watermain break. In addition, the construction of the sewer would require the use of vertical trenching techniques, which would greatly increase the cost of the sewer works and the duration of its construction.

Given this situation, a number of developers/landowners in the Kleinburg/Nashville Community have formed a developers group which is prepared to advance the construction of the trunk sanitary sewer on Huntington Road to avoid any potential conflicts with the Region trunk watermain construction. The developers group umbrella company is called the Huntington Landowners Trustee Inc. and includes the following firms: Nashville Developments Inc., Pinestaff Developments Inc., Molise Kleinburg Estates Inc., and Lake Rivers Inc. The sewer construction will be carried out by TACC Construction and is estimated to cost approximately \$7.0 million including engineering assuming it can be constructed in advance of the Regional trunk watermain. As previously noted, this cost will be borne by the developers group.

### **Construction Methodology**

As noted previously, the size of the open cut excavation associated with the sewer construction will extend the full width of the traveled roadway. Accordingly, it will be necessary to close the road to general traffic during the period of construction. The closure of the road will establish a safer work environment for the construction workers and will significantly shorten the construction time frame for the project. A shorter construction period will minimize the disruption to the immediate property owners and motorists.

### **Huntington Road Closure**

Huntington Road between Rutherford and McGillivray Road is a two lane rural gravel road. This stretch of roadway contains several private driveways, which serve residential dwellings, farm operations and a small truck storage operation. Recent traffic/transportation studies indicate that between 300 and 350 vehicles travel this roadway daily. At the request of the City, the Huntington Landowners group retained the transportation engineering firm of Poulos and Chung to assess the impact on traffic as a result of the proposed temporary closure of Huntington Road. Poulos and Chung submitted a traffic impact study on January 5, 2011 that concludes the following:

- The existing traffic volumes are very low on Huntington Road between Rutherford Road and Major Mackenzie Drive;
- Huntington Road is not orientated or situated in the path to serve any vehicles that may be disrupted due to the planned construction on Highway 50 and Langstaff Road;
- If Huntington Road were temporarily closed from February to June 2011, the existing adjacent primary roadway network and existing traffic controls can satisfactorily accommodate all re-orientated Huntington Road traffic flows without any measurable change to existing levels of service and operating conditions.

Accordingly, the proposed temporary closure of Huntington Road between Rutherford Road and McGillivray Road is not expected to negatively impact the area transportation system. The contractor will be required to ensure that local access along Huntington Road is maintained at all times during the road closure period.

### Construction Schedule

Construction of this segment of the trunk sanitary sewer is estimated to take about six months to complete, weather permitting. The sewer work will need to be thoroughly coordinated with the Region of York so it is in sequence with the construction of the trunk watermain which is scheduled to commence in February 2011. The Region has indicated that they will include a provision in their watermain contract that restricts the watermain contractor from working south of Major Mackenzie Drive before June 2011. This will provide sufficient time for the trunk sewer to be constructed without impacting the in-service date of the trunk watermain, which is January 2012. In the event that the sewer construction isn't completed by the end of May 2011, then Huntington Landowners Trustee Inc. will be required to pay any contractor delay claims or standby expenses incurred by the Region.

Before construction begins, the contractor shall provide a detailed construction schedule that demonstrates to the satisfaction of the City and Region that the sanitary sewer can be constructed without impacting the construction timing of the Regional trunk watermain or result in a "constructor" issue between contractors. In addition, all necessary permits and approvals must be in place prior to the commencement of construction.

Given the sewer will be constructed during the winter months by way of open cut, the Huntington Landowners group will be required to provide full-time geotechnical inspection/testing to ensure suitability and compaction of the back-fill material. In addition, a more rigorous construction inspection program will be required on this project to ensure a high level of quality assurance and control. The new sewer commissioning standards, which are being recommended by the joint Regional and Municipal Water and Wastewater Task Force, will be applicable to this sewer work.

Following the sewer installation, Huntington Road will be restored to its existing rural road condition. Ultimately, Huntington Road will be reconstructed to an urban standard to support the development of the surrounding industrial lands. The necessary Class Environmental Assessment will be undertaken by the City in 2011 to establish the width and preferred design of the Huntington Road improvements.

The construction of the balance of the trunk sewer on Huntington Road south of Rutherford will be carried out under a separate project in the near future.

### Road Closure Logistics

Road closure signage and barricades will be installed by the contractor at the intersections of Rutherford Road and Huntington Road, and McGillivray Road and Huntington Road along with the appropriate detour route information signage to the satisfaction of the City and Region. During the road closure, emergency access will be maintained to the area at all times. Access to the existing six properties along Huntington Road will be maintained during the construction

period and every effort will be made to inform all affected residents as the work progresses to lessen and mitigate any construction related impacts.

### Servicing Agreement

Prior to the commencement of construction, the Huntington Landowners group (Huntington Landowners Trustee Inc.) will be required to enter into a servicing agreement with the City to address matters such as securities, insurance, fees, construction specifications, sewer commissioning standards and staging.

The servicing agreement will include an acknowledgement from the Huntington Landowners Trustee Inc. confirming that they are undertaking this sewer work solely at their own risk and expense, and that there is no commitment on behalf of the City or Region at this time to include the sewer in a future Development Charge by-law or allocate servicing capacity to the proposed development.

### Relationship to Vaughan Vision 2020

In consideration of the strategic priorities related to Vaughan Vision 2020, the recommendations of this report will assist in:

- The pursue of excellence in service delivery;
- Enhancing and ensuring Community Safety;
- Promoting effective governance; and
- Planning and managing growth, and economic vitality.

This report is therefore consistent with the priorities previously set by Council.

### Regional Implications

The Region of York is intending to tender the construction of a new trunk watermain on Huntington Road from Rutherford Road to Nashville Road in late January 2011 to meet an in-service date of January 2012. Regional staff has advised that they have no objections to the trunk sanitary sewer being constructed in advance of the watermain so long as it doesn't impact the construction and schedule for the trunk watermain.

The proposed sewer construction and the associated temporary road closure are being coordinated with the Region of York.

### Conclusion

To facilitate the timely construction of the sanitary trunk sewer on Huntington Road, it is recommended that a by-law be passed to implement the temporary road closure of Huntington Road from Rutherford Road to McGillivray Road from approximately February 1, 2011 to May 31, 2011 inclusive, subject to the City and the Region of York being satisfied that the construction staging of the sewer works will not impact the timing or construction of the Regional trunk watermain.

A comprehensive communication plan will be implemented to inform all stakeholders of this temporary road closure as set out in this report. In addition, City Development Engineering staff will continue to monitor the construction and staging of the sewer and watermain works with the Region of York to ensure the works are completed in a timely and coordinated manner.

**Attachments**

1. Attachment No. 1 – Location Plan

**Report prepared by:**

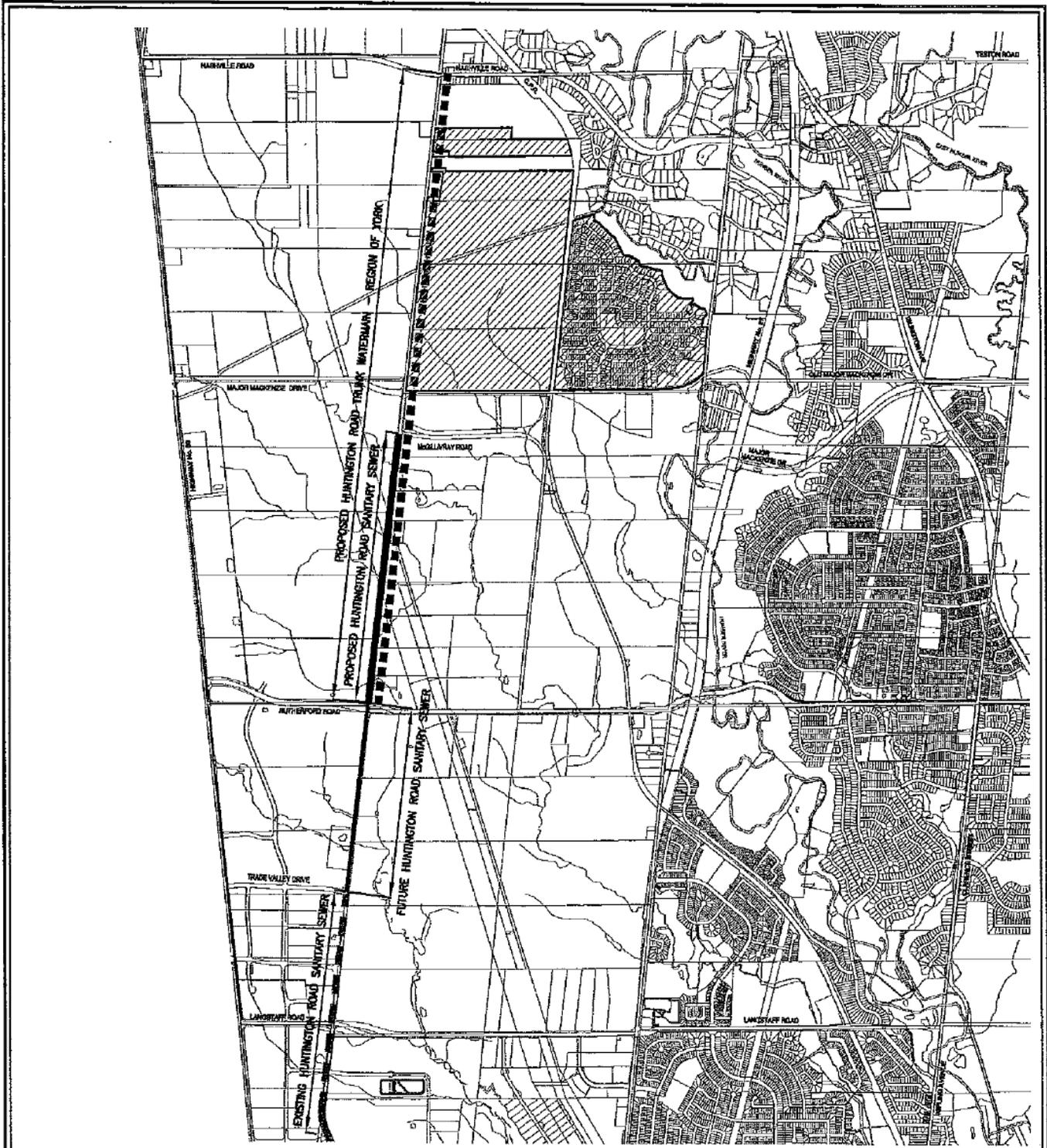
Andrew Pearce, Director of Development & Transportation Engineering, ext. 8255.

Respectfully submitted,

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

Andrew Pearce, C.E.T.  
Director of Development/  
Transportation Engineering

# ATTACHMENT No. 1



**TEMPORARY ROAD CLOSURE**  
**HUNTINGTON ROAD FROM RUTHERFORD ROAD TO MCGILLIVRAY ROAD**  
**TRUNK SANITARY SEWER CONSTRUCTION**

**LEGEND**



HUNTINGTON LANDOWNERS TRUSTEE INC.



N.T.S.