#### **EXTRACT FROM COUNCIL MEETING MINUTES OF MARCH 20, 2018**

Item 4, Report No. 10, of the Committee of the Whole, which was adopted without amendment by the Council of the City of Vaughan on March 20, 2018.

# 4 KING-VAUGHAN ROAD BRIDGE REPLACEMENT CLASS ENVIRONMENTAL ASSESSMENT STUDY NOTICE OF STUDY COMPLETION

The Committee of the Whole recommends approval of the recommendation contained in the following report of the Deputy City Manager, Public Works, dated March 6, 2018:

#### <u>Purpose</u>

To inform Council of the findings and recommendations of the King-Vaughan Road Bridge Replacement Class Environmental Assessment study in advance of filing the Notice of Study Completion.

#### Recommendations

1. That this report be received for information purposes.

## Report Highlights

- The City of Vaughan has completed a Schedule 'C' Municipal Class Environmental Assessment (Class EA) to assess an appropriate rehabilitation / replacement strategy for the King-Vaughan Road Bridge.
- This Environmental Study Report (ESR) documents the rationale for the project, the background to the study, existing and future conditions within the study area, the planning, design and consultation process leading to the preferred alternative, anticipated positive and negative impacts, and proposed mitigation measures.
- The preferred alternative is to replace the existing temporary bridge with a new two-lane bridge structure at the existing location.

# **Background**

The King-Vaughan Road Bridge was an arch bridge originally constructed in 1920, and carries one lane of vehicular traffic across the East Humber River. The crossing experiences low traffic activity, with average daily traffic of 704 vehicles per day. The speed limit at this location is 60 km per hour, with a posted load limit of 12 metric tonnes.

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On April 21, 2015, Council approved the recommendations to award Amec Foster Wheeler Environment and Infrastructure to undertake the Class Environmental Assessment Study (Class EA) and preliminary design for the King-Vaughan Road Bridge replacement. Subsequently, a Notice of Study Commencement was issued on July 2, 2015.

During routine inspections in the summer of 2015, structural deficiencies were identified on the bridge that required immediate attention. Consequently, a temporary single-lane bridge structure was constructed over the existing concrete bridge structure in and opened in December 2015 to provide safe access across the bridge to the travelling public, while the Class EA study is being completed.

#### **Previous Reports/Authority**

April 14, 2015, Committee of the Whole (Item11, Report No.17)

July 2, 2015, King-Vaughan Road Bridge EA; Notice of Study Commencement

## **Analysis and Options**

# The Class EA Study examined the problem and opportunities with the existing bridge structure

The purpose of the Class EA study is to confirm the structural condition, along with the hydraulic and safety concerns related to the existing single-lane bridge, and to determine the appropriate structural rehabilitation/replacement strategy that will address the concerns and accommodate the future traffic demands. Based on initial investigation and consultation, the following deficiencies and opportunities with the bridge structure were identified:

- significantly deteriorated structural condition of the existing concrete bridge;
- sub-standard (single lane) travel width;
- sub-standard hydraulics; and
- opportunity to improve structure opening to enhance the natural environment.

# Public Information Centres were held to inform and obtain input from the public and stakeholders

As part of the Class EA process, Public Information Centres (PIC) were held where the project team presented the study background and alternate planning solutions to the

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issue(s). The first PIC was held on April 7, 2016 and the second public consultation was held on March 2, 2017. Comments received at these PICs have been incorporated in the Class EA Study.

# A new two-lane bridge is the recommended option for the replacement of the existing bridge

Through an evaluation of the planning alternatives based on a set of criteria that broadly represents the specific environments for the study area (land use, transportation, road network, existing and future traffic demands, natural and socio-economic environment, bridge conditions, etc.) it was determined that:

- The replacement of the existing structure with a new two-lane bridge at the existing location would be the preferred alternative. The bridge will consist of two 3.25 m lanes with a 1.5 m shoulder. The preferred alternative will provide a new bridge that meets current design standards, as well as two lanes for traffic, improve hydraulic capacity of the East Humber River, and provide opportunity to enhance the local natural environment. By maintaining the existing alignment, it alleviates the need for property acquisition and mitigates environmental impacts.
- For rural arterial roads, in accordance with the MTO criteria, the acceptable
  requirement for bridge structures is to pass a 50 year storm event with a
  minimum freeboard requirement of 0.5 m. A concrete precast girder bridge with
  the vertical profile at the bridge raised by 1.0 metre provides adequate vertical
  clearance and will increase the hydraulic capacity from the existing 10 year storm
  event to a 100 year storm event. The backwater impact resulting from the
  proposed design increases marginally from the previously accepted impact by
  the affected upstream property owners caused by the current temporary bridge.

# Filing the Environmental Study Report (ESR) for Agency and Public Review is the next step in the study process

The next steps in the study are as follows:

- Finalize the ESR and Technical Reports based on comments from reviewers, regulatory agencies and stakeholders.
- Issue a Notice of Study Completion and place the ESR for the minimum 30-day public review period. During this period, the public may further review and submit comments and/or concerns to the City and the Minister of Environment and Climate Change (MOECC). Staff will address these comments and should any member of the public not be satisfied with the responses, a Part II Order request may be submitted directly to the Minister of the Environment and Climate Change thereby initiating an independent Ministry review.

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#### **Financial Impact**

There are no financial impacts at this time.

#### **Broader Regional Impacts/Considerations**

The recommendations of the King-Vaughan Road Bridge Municipal Class EA Study has considered the impacts of the York Region's Regional Official Plan and the Greater Toronto Area West Corridor Class EA.

# Greater Toronto Area West (GTA West) Corridor Study has been suspended by the Province

In December 2015, the Ministry of Transportation (MTO) suspended its work on the environmental assessment of the GTA West highway corridor to conduct an internal review of the work undertaken since 2007. The GTA West Corridor Planning Study Area includes King-Vaughan Road between Pine Valley Drive and Highway 27.

On February 9, 2018 MTO issued an update advising the Ministry has accepted an expert advisory panel's recommendation that a proposed highway in the GTA West corridor is not the best way to address changing transportation needs. It also noted that in light of the panel's recommendation, the transportation needs of the corridor will be evaluated from a regional perspective through the Greater Golden Horseshoe (GGH) Transportation Plan, which considers the many ways people and goods move around the region, and will incorporate new and emerging transportation technologies into future projects.

In this regard, staff will continue to communicate with MTO for the implementation of the preferred alternative in the Municipal Class EA study for the King-Vaughan Road Bridge.

## **Conclusion**

The Municipal Class EA study for the King-Vaughan Road Bridge is now complete and the Notice of Study Completion will be advertised as per the Municipal Class EA process. Stakeholders and the general public have been engaged throughout the study process. Staff will continue to work with all partners to address any comments receive during the review period.

The preferred alternative is to replace the existing bridge with a two-lane precast concrete girder bridge at its current location.

Following filing of this Environmental Study Report, subject to resolution of any issues raised during the filing period, the City may proceed to detailed design and construction of this project.

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**For more information,** please contact: Jack Graziosi, Director Infrastructure Delivery, Ext.8201

### **Attachments**

- 1. Location Map
- 2. Municipal Class Environmental Assessment King-Vaughan Bridge Replacement Draft Executive Summary

#### **Prepared by**

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(A copy of the attachments referred to in the foregoing have been forwarded to each Member of Council and a copy thereof is also on file in the office of the City Clerk.)