

CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF SEPTEMBER 17, 2013

Item 13, Report No. 35, of the Committee of the Whole, which was adopted without amendment by the Council of the City of Vaughan on September 17, 2013.

**13 LOAD RESTRICTION BY-LAW ON BRIDGE NO. 014401
 KING-VAUGHAN ROAD BRIDGE
 IN THE VICINITY OF KIPLING AVENUE AND KING-VAUGHAN ROAD
 WARD 1**

The Committee of the Whole recommends approval of the recommendation contained in the following report of the Commissioner of Engineering and Public Works and the Director of Engineering Services, dated September 3, 2013:

Recommendation

The Commissioner of Engineering and Public Works and the Director of Engineering Services recommend:

1. That a by-law be enacted to limit the loading on the existing concrete bridge being Bridge No. 014401, (Humber River on King-Vaughan Road, approximately 1.0 km west of Kipling Avenue) to a maximum of 5 tonnes; and
2. That the by-law be in effect for the statutory period of 2 years.

Contribution to Sustainability

Not Applicable.

Economic Impact

There is no economic impact to the City as a result of the recommendations from this report.

Communications Plan

A Communication Plan is not required for this activity.

Purpose

To pass a by-law to impose a load restriction on an existing concrete bridge for a period of 2 years, in accordance with regulations under the Highway Traffic Act (Section 123(2)) and the Bridges Act (Section 2).

Background - Analysis and Options

The King-Vaughan Road Bridge In Lot 35, Concession VIII, (Bridge No. 014401), is located on King-Vaughan Road over the Humber River, approximately 1.0km west of Kipling Avenue. (See Attachment No.1).

The existing bridge was constructed in 1920 and is a 13.7m single span earth filled concrete arch bridge with a concrete deck and surface treated wearing surface. The bridge provides a roadway width of 3.7m and accommodates a single lane for 2-way vehicular traffic.

Regulations under the Highway Traffic Act (Section 123(2)) and the Bridges Act (Section 2) requires the City to ensure that the bridges are kept safe and in good repair. This requirement is completed through the performance of regular biennial structure inspections in accordance with

CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF SEPTEMBER 17, 2013

Item 13, CW Report No. 35 – Page 2

the Ontario Structure Inspection Manual. Under these regulations, municipalities are still responsible for passing load limit by-laws. In place of the Ministry of Transportation of Ontario review, the recommendations to support the load limit and the duration for which it is valid, must now be stamped by two professional engineers.

Based on our most recent inspection of the structure, completed by AECOM in August 2013, the 5 tonnes load limit currently posted is recommended to remain in effect. The current By-law will expire on December 31, 2013 and a new by-law is required for its renewal.

A Class Environmental Assessment will be undertaken in 2013/2014 to determine the feasibility of widening Bridge No. 014401 (King-Vaughan Road Bridge) from a single lane to two lanes. The bridge replacement has been identified, within the 2014 – 2017 capital plan, for construction in 2016. It is anticipated that a load limit will not be required once the construction of the bridge has been completed. It is appropriate to impose the recommended load limit until the bridge construction is complete.

Conclusion

A load limit by-law is required to renew a load restriction of 5 tonnes for a period of 2 years, in accordance with regulations under the Highway Traffic Act (Section 123(2)) and the Bridges Act (Section 2).

Relationship to Vaughan Vision 2020/Strategic Plan

In consideration of the strategic priorities related to Vaughan Vision 2020, the recommendations of the report will assist in enhancing and maintaining community safety, health and wellbeing, by ensuring that an appropriate level of service for bridge conditions are maintained for the citizens of Vaughan.

Regional Implications

There are no Regional Implications for this activity.

Attachments

1. Location Map

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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.)