

COMMITTEE OF THE WHOLE - JANUARY 22, 2007

LOAD RESTRICTION BY-LAW ON BRIDGE NO. 014401, HUMBER RIVER, KING-VAUGHAN ROAD

Recommendation

The Commissioner of Engineering and Public Works recommends:

1. That a by-law be enacted for the existing concrete bridge being Bridge No. 014401, Humber River on King-Vaughan Road approximately 1.0 km west of Kipling Avenue to limit the loading to 12 tonnes; and
2. That the by-law be in effect for the statutory period of 2 years.

Economic Impact

There is no additional economic impact to the City of Vaughan as the necessary resources have been allocated and approved.

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 Humber River 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 their bridges are kept safe and in good repair. This has to be done through the performance of regular structure inspections (every 2 years) in accordance with the Ontario Structure Inspection Manual. Also under these regulations, municipalities are still responsible for passing load limit bylaws. In place of the Ministry of Transportation of Ontario review, engineering 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, circa 2006, completed by Totten Sims Hubicki Associates, the 12 tonne load limit currently posted is recommended to remain in effect.

The current By-law expired in November of 2006 and a new by-law is required for it's renewal.

Relationship to Vaughan Vision 2007

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

Conclusion

A load limit by-law is required to renew a load restriction of 12 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).

Attachments

1. Location Map

Report prepared by:

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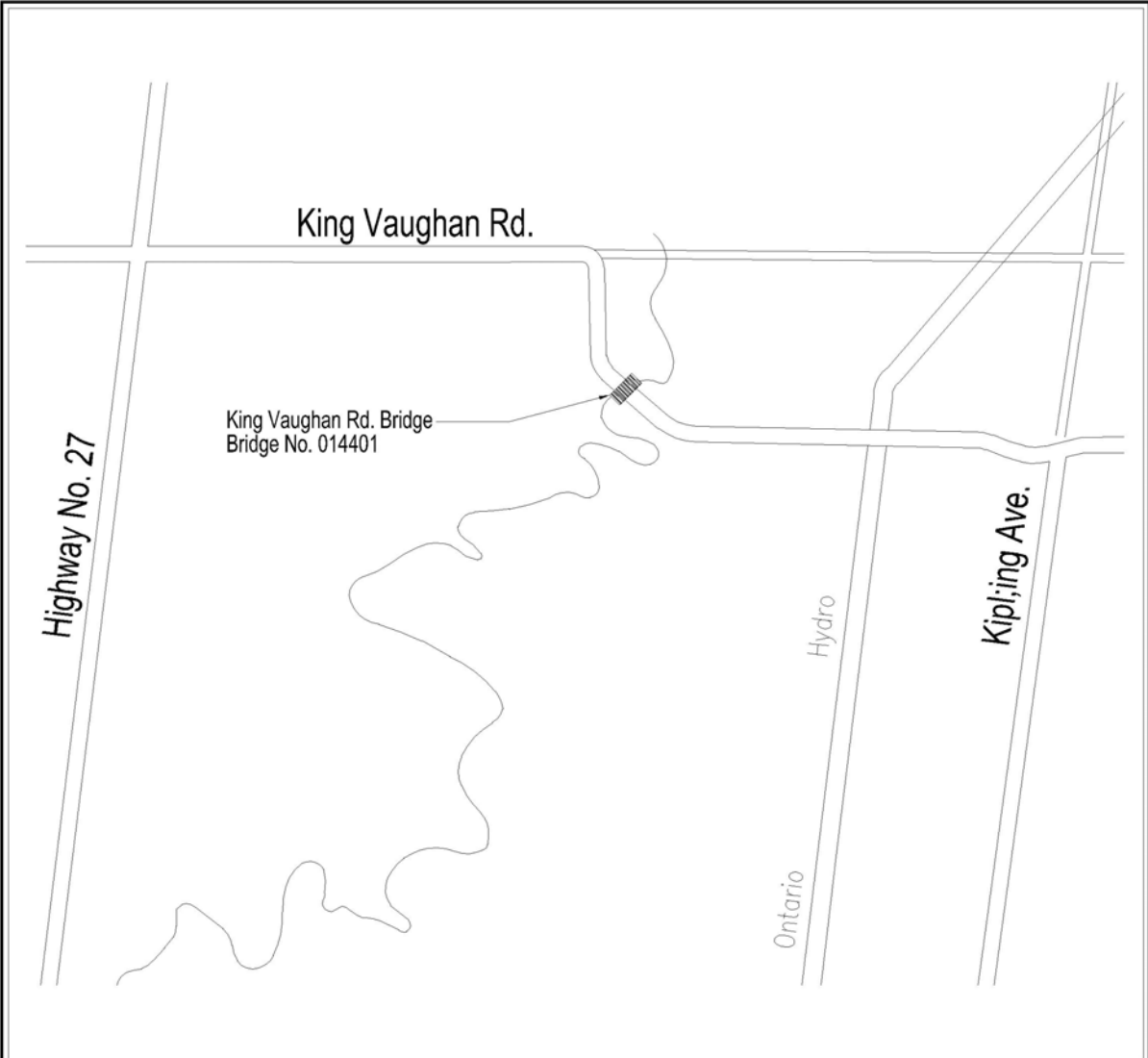
Respectfully submitted,

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

Gary Carroll, P. Eng.
Director of Engineering Services

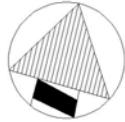
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ATTACHMENT No. 1



KING VAUGHAN ROAD BRIDGE BRIDGE NO. 014401

LOCATION : Part of Lot 35,
Concession 8



NOT TO SCALE