

COMMITTEE OF THE WHOLE - OCTOBER 1, 2007

LOAD RESTRICTION BY-LAW ON BRIDGE NO. 011601, MCEWEN BRIDGE, HUMBER RIVER

Recommendation

The Commissioner of Engineering and Public Works recommends:

1. That a by-law be enacted on the existing concrete bridge being Bridge No. 011601, McEwen Bridge, Humber River on Kirby Road approximately 0.2 km east of Huntington Road to limit the loading to 5 tonnes; and
2. That the by-law be in effect for a 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.

Communications Plan

A Communications 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 two years in accordance with regulations under the Highway Traffic Act (Section 123(2)) and the Bridges Act (Section 2).

Background - Analysis and Options

The Bridge No. 011601, McEwen Bridge, Humber River is located on Kirby Road approximately 0.2 km east of Huntington Road. (See Attachment No.1).

The existing bridge was constructed in 1923 and is an 18.3 metre single span cast in place concrete bowstring arch bridge with a concrete deck and gravel wearing surface. The bridge provides a roadway width of 3.4 metres and accommodates a single lane for two 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, in 2006, completed by Engineered Management Systems, the 5 tonnes load limit currently posted is recommended to remain in effect.

The current Bylaw expires in October of 2007 and a new by-law is required for renewal and continued enforcement of the posted load limit on this structure.

Relationship to Vaughan Vision 2007

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

Regional Implications

There are no Regional Implications for this activity.

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).

Attachments

1. Location Map

Report prepared by:

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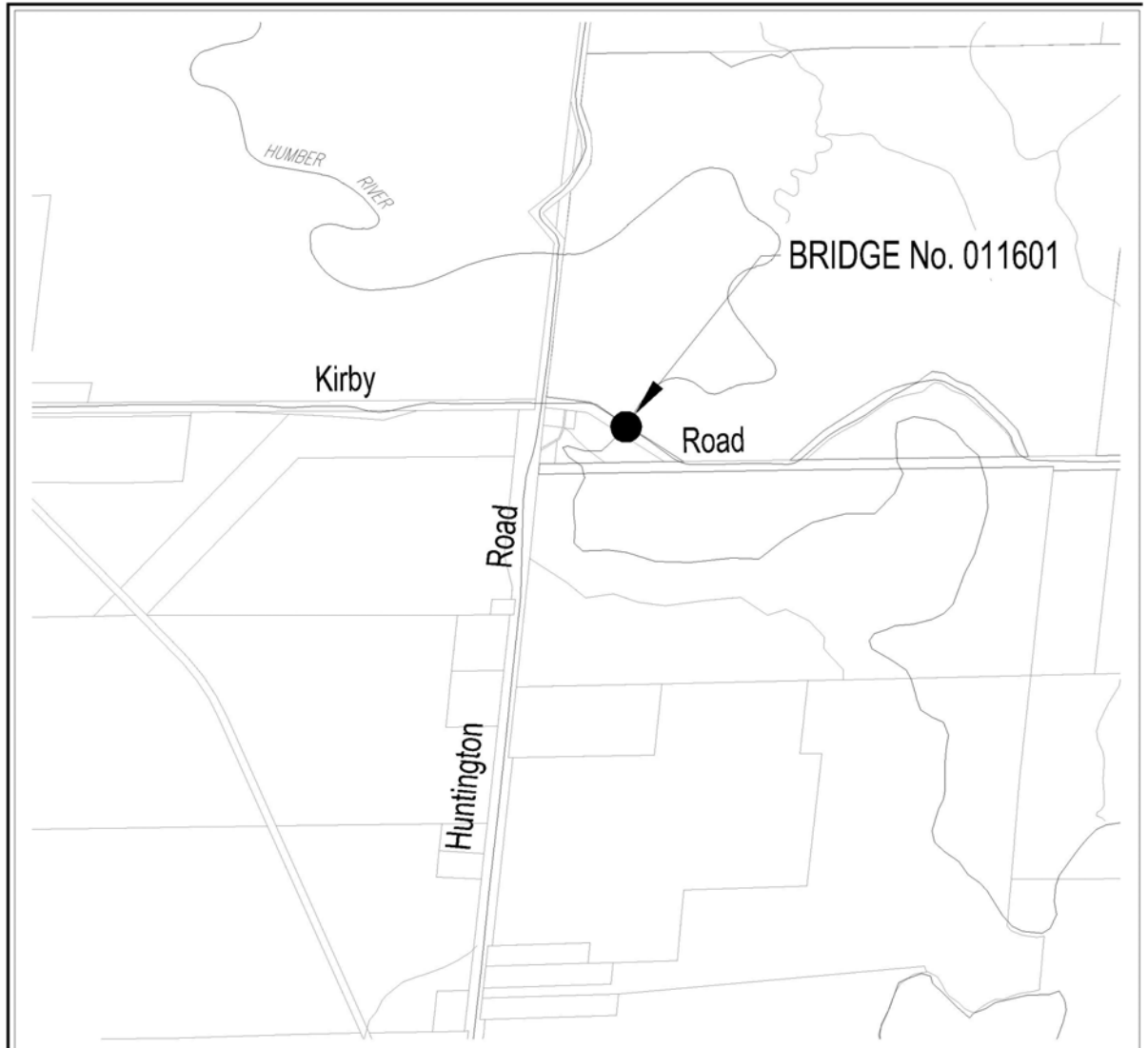
Respectfully submitted,

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

Gary P. Carroll, P. Eng.
Director of Engineering Services

DB:mc

ATTACHMENT No. 1

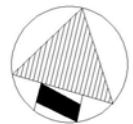


LOAD RESTRICTIONS BY-LAW
BRIDGE No. 011601
McEWEN BRIDGE - HUMBER RIVER

LOCATION : Part of Lots 30 & 31,
Concession 9

LEGEND

● SUBJECT BRIDGE



NOT TO SCALE