

Good Neighbourly Relations Committee

Major reinforcement work on the metal structure of the Jacques Cartier Bridge

January 31, 2017

Good Neighbourly Relations

Agenda

- + Work overview
- Mitigation measures
- + Upcoming work
- + Discussion period
- + Next meeting





Work overview

Major reinforcement work on the metal structure of the Jacques Cartier Bridge

Reinforcement of the metal structure of IIII the Jacques Cartier Bridge

The largest steel contract in the bridge's history

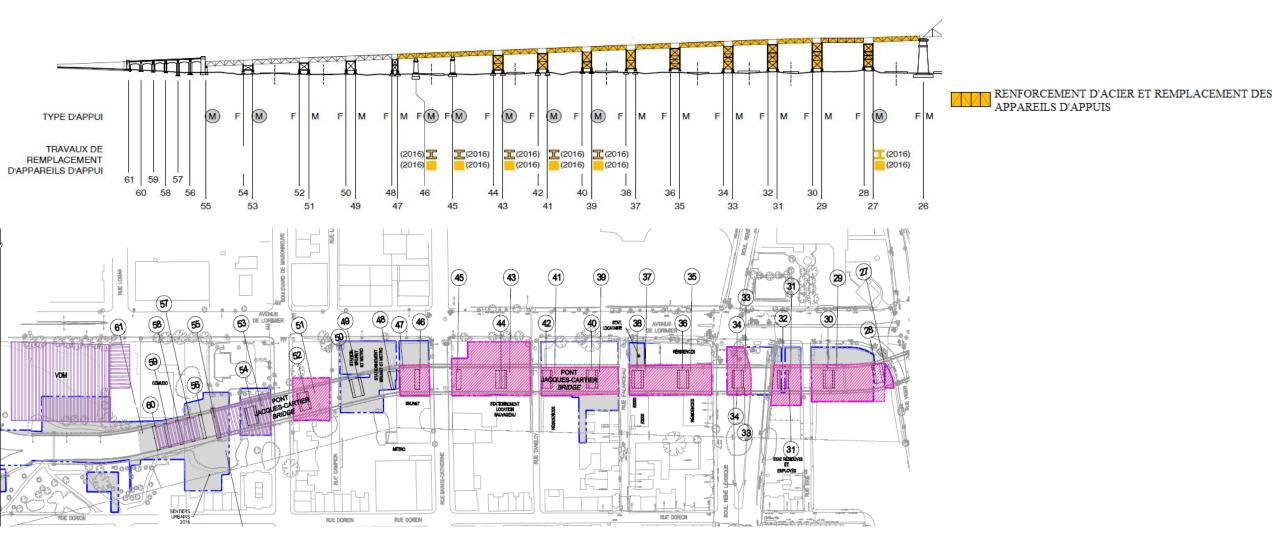
- + Replacement of braces
- + Reinforcement of:
 - Steel towers
 - Verticals
 - Diagonals
 - Vertical gusset plates
 - Main bottom chords
 - Jacking struts

Another nearby worksite is currently installing lighting fixtures on the Jacques-Cartier Bridge (illumination project).



Ponts JACQUES CARTIER + CHAMPLAIN Bridges

III Work locations





III Replacement of braces





Ponts JACQUES CARTIER + CHAMPLAIN Bridges

Reinforcement of a vertical IIII gusset plate





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IIII Replacement of a bottom chord



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III Work types

- + Removal of metal rivets
- + Temporary and permanent boltings
- + Installation of scaffolding
- + Installation of steel plates
- + Bridge jacking
- + Painting of some sections

Preparatory work is always done during the day.

Structural elements are replaced during the evening, night and weekend as traffic lanes must be closed above the work areas.



IIII Traffic

A number of partial and complete bridge closures

- + Partial closures during the evening and night (8:00 p.m. to 5:00 a.m.)
- + Complete closures at night (12:00 a.m. to 4:00 a.m.)
- + Partial lane closures on local network for mobilization and delivery activities







Mitigation measures

Major reinforcement work on the metal structure of the Jacques Cartier Bridge

IIII Sound level testing

+ Report from a specialized firm

- Noise mitigation measures campaign before the work
- Findings: Regular ambient noise is quite loud
 - Average between 58.4 dB and 64.6 dB over a 24-hr period



III Noise surveys



Pont Jacques-Cartier - René-Lévesq coin René-Lévesque et De Lorimier Distance des maisons : 15m Hauteur de la station : 2.6m

GPS: N 45° 31.4060' W 73° 32.8760'

Results: René-Lévesque Station

	Authorized limits	Recordings outside of work	Recordings during work	Curre Satellie
Day (7 am to 7 pm)	75	75.2	82	Location Savvageabling
Evening (7 to 11 pm)	69	71.3	72.5	Holog 97
Night (11 pm to 7 am)	67	69.9	70	And Design



	Authorized limits	Recordings outside of work	Recordings during work
Day (7 am to 7 pm)	75	Below the threshold	84.8
Evening (7 to 11 pm)	69	Below the threshold	Below the threshold
Night (11 pm to 7 am)	68	68.3	71



IIII Noise management program

- + Work done mainly during the day, between 7:00 a.m. and 7:00 p.m.
- + Traffic restrictions in residential sectors
- + Installation of acoustic barriers and sound absorption panels
- + Installation of soundproofed shelters around sensitive areas
- + Adjustment of Contractor's Work Methods
- + Equipment with noise reducers
- + Installation of two sound level meters near the work areas
- + Continuous noise surveys and monitoring of threshold overruns

IIII Acoustic barriers









IIII Soundproofed shelters







III Mitigation measures





Tools with noise reduction devices

Sound level meters

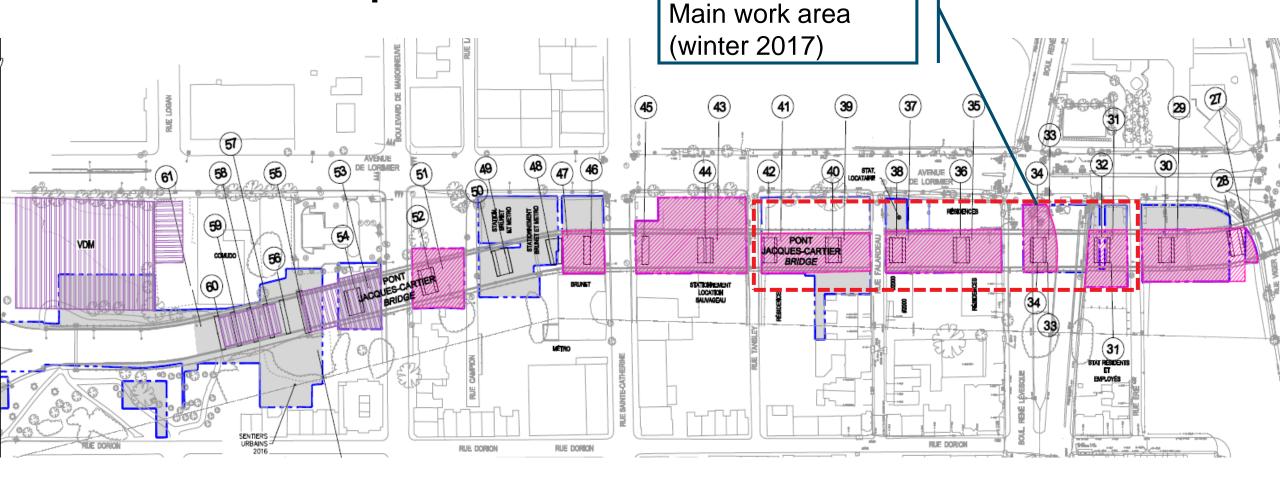


Ponts JACQUES CARTIER + CHAMPLAIN Bridges

IIII Upcoming work phases



30% of work completed







Discussion period

Communication with waterfront IIII residents

- Notices to residents
- + Work advisories available online and via e-mail alerts
- Media contacts
- + Good Neighbourly Relations Committee
- + Twitter account dedicated to the Jacques Cartier Bridge @pontJCBridge
- + www.JacquesCartierChamplain.ca

Questions, complaints or comments

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