

Ontario's Rapid Installation of Concrete Rigid Frame Bridges

Featured Speakers: Dina Miron, P.E., Head, Structural Section, Ministry of Transportation, Ontario, Eastern Region

Trevor Small, P.E., Sr. Project Manager, Bridge Engineering, MMM Group Limited, a WSP Company

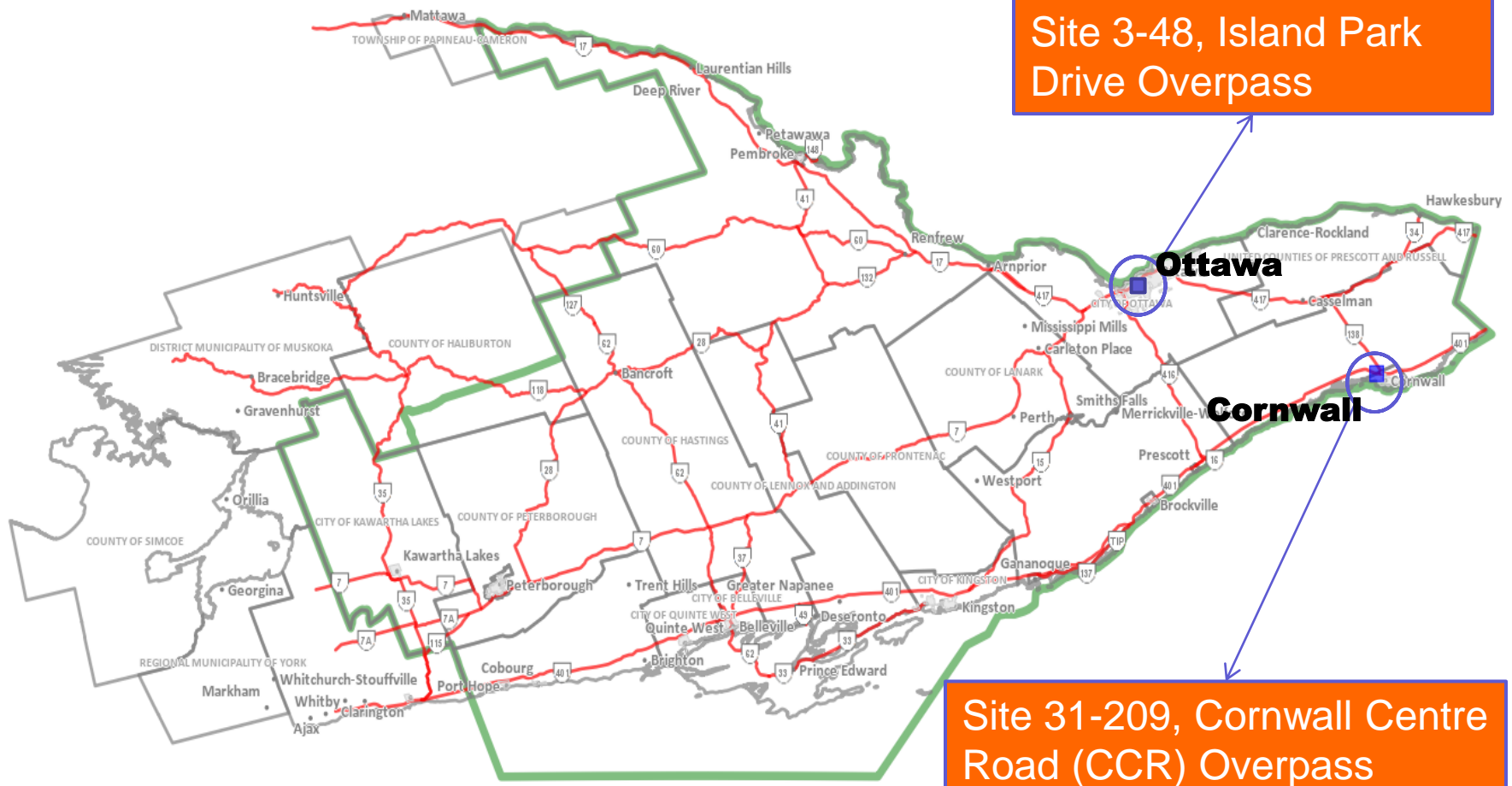


The Ministry of Transportation of Ontario (MTO)

- The highway authority for the Province of Ontario in Canada
- Split into 5 regions

Eastern Region

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History of Rapid Replacement in Eastern Region

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- Island Park Drive Overpass, site 3-48
- Site located along Highway 417 in Ottawa, Ontario
- First rapid superstructure replacement using SPMTs by MTO in 2007
- 17 hour full closure



History of Rapid Replacement in Eastern Region

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Single Span



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Multiple Span



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Rigid Frame

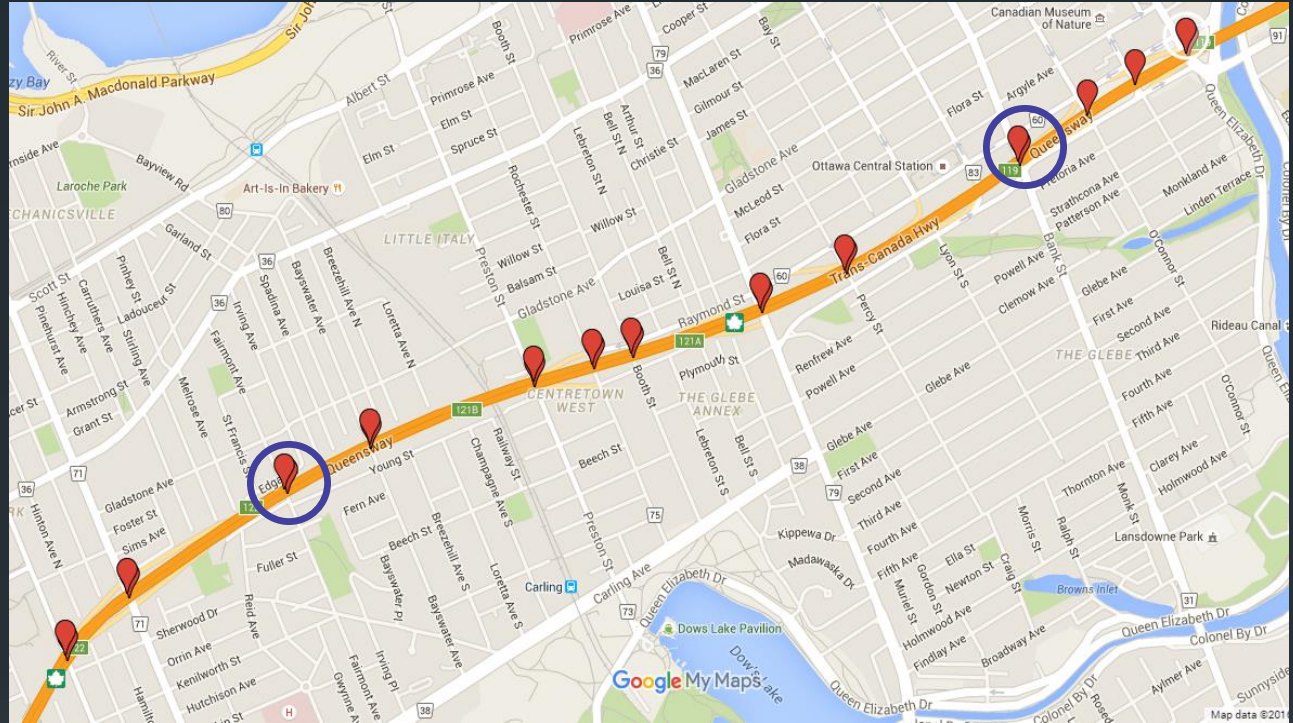
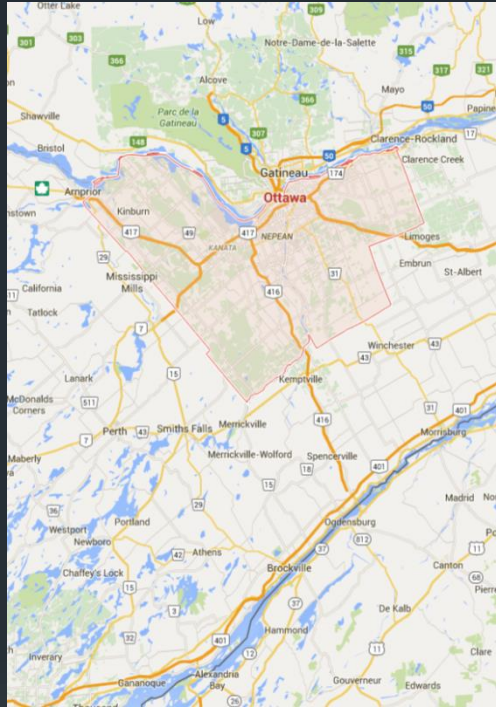


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Cornwall Centre Road

Project Background

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- 26 rigid frame overpass structures requiring replacement along Highway 417 in Ottawa, Ontario
- AADT is over 160,000 along this section of Highway 417

Cornwall Centre Road

Project Background

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Fairmont Ave. Overpass EBL



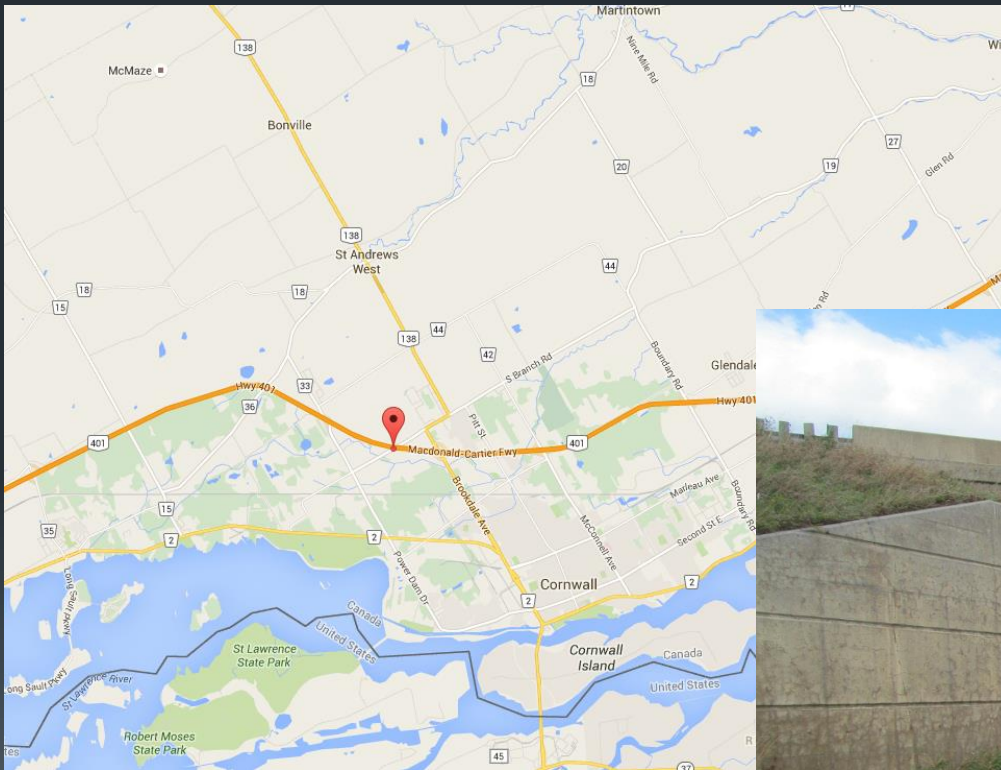
Bank St. Overpass WBL

Cornwall Centre Road

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Project Background

- Develop ABC methodology at lower risk site
- Gain experience for future rigid frame rapid replacements



Cornwall Centre Road History

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Structure Name	Cornwall Centre Road Overpass
Structure Type	Steel I Beam
Highway Number	401
Year Built (age)	1962
Rehab History	1994- WPR, Joint Modification, Barrier Wall 1997- Coating
AADT	23,000



Decision to replace based on condition of substructure and retaining walls