

Gordie Howe International Bridge



Project Update and Technical Briefing
July 5, 2018

This presentation is for informational purposes only and may change as a result of the procurement process underway

Gordie Howe International Bridge Project

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Gordie Howe International Bridge Project

Canada – U.S. Trade

WORLD'S LARGEST TRADING PARTNERS
IN GOODS & SERVICES



CANADA
IS TOP EXPORT
DESTINATION FOR
30 STATES



\$1.6
MILLION
EVERY MINUTE

CANADA IS US'S LARGEST CUSTOMER



9 MILLION
U.S. JOBS ARE SUPPORTED BY
CANADA - U.S. TRADE

Gordie Howe International Bridge Project

Windsor-Detroit Gateway

WINDSOR-DETROIT CONSISTS OF
FOUR CROSSINGS



Windsor-Detroit Crossing

25%

Total Canada-U.S. trade

2.6
MILLION



TRUCKS
PER YEAR



Gordie Howe International Bridge Project

WDBA's Role:

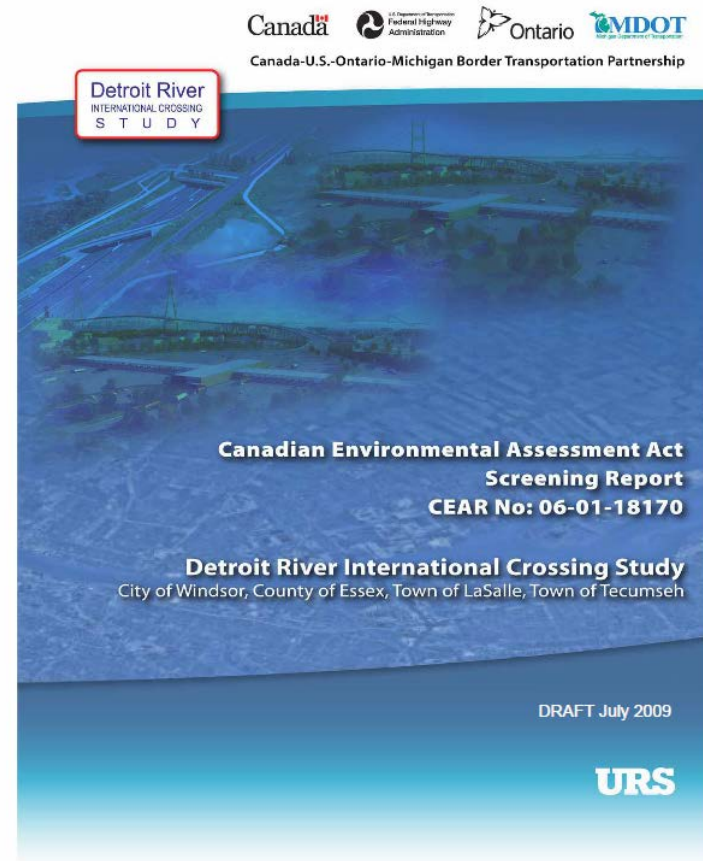
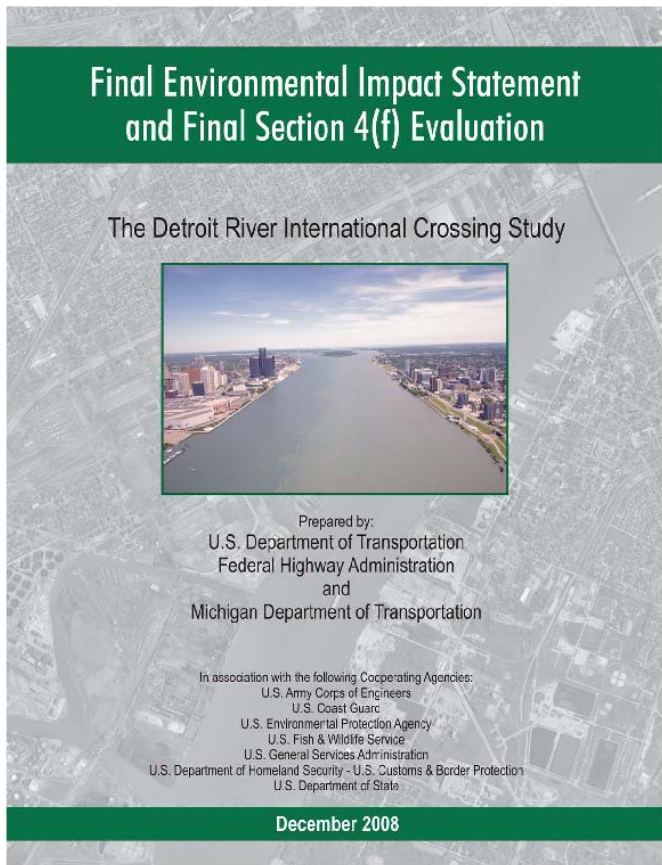
WDBA has a responsibility to manage the procurement process for the design, build, finance, operation and maintenance of the Gordie Howe International Bridge through a public-private partnership. It is also our responsibility to select the P3 partner, manage the project agreement and provide project oversight of construction and operation of the new crossing.

Who's involved?



Gordie Howe International Bridge Project

How We Got Here



Gordie Howe International Bridge Project

Project History

The Detroit River International Crossing (DRIC) Study Purpose

- To provide for the safe, efficient and secure movement of people and goods across the Canadian-U.S. border in the Detroit River area to support the economies of Ontario, Michigan, Canada and the U.S.
- To construct a new end-to-end transportation system that will link Highway 401 to the U.S. interstate system with Ports of Entry and a new river crossing in between.
- The location of the Gordie Howe International Bridge project was identified as a result of the extensive environmental study process.

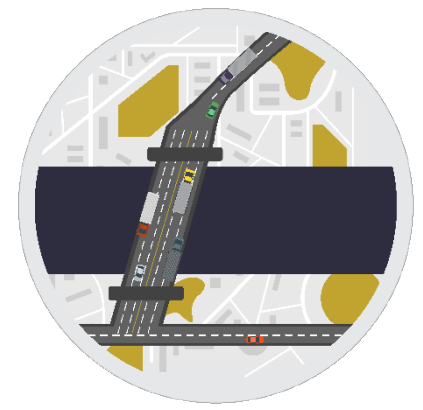
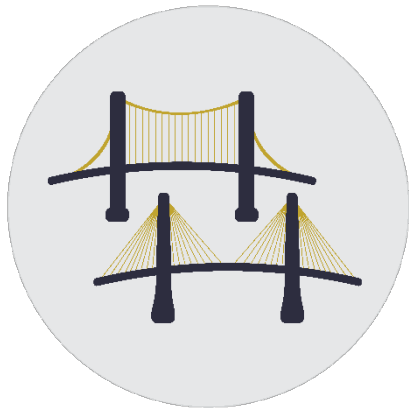
What is the need?

Redundancy

Capacity

Border processing capabilities

System connectivity



Gordie Howe International Bridge Project

Project History

Timeline	Activity
2001-04	<ul style="list-style-type: none"> Planning/Need and Feasibility Study
2005-09	<ul style="list-style-type: none"> Coordinated environmental study process completed by Canada and the US Canada determines that the Project will not have significant environmental impact, with mitigation measures US Record of Decision (ROD) obtained
2008-12	<ul style="list-style-type: none"> Canada land acquisition begins Preliminary Canadian and US Port of Entry design and other preparation work begins
2012	<ul style="list-style-type: none"> Canada-Michigan Crossing Agreement signed WDBA incorporated
2013	<ul style="list-style-type: none"> Presidential Permit issued
2014	<ul style="list-style-type: none"> Board of Directors and President and CEO are appointed for WDBA Members are appointed to the International Authority Board US Coast Guard Bridge Permit received
2015	<ul style="list-style-type: none"> International Authority approves United States land acquisition Selection of key advisor firms to assist with engineering, technical and legal work Selection of fairness monitor to oversee P3 procurement process Crossing officially named Gordie Howe International Bridge Start of preparatory activities at Canadian Port of Entry begins P3 Procurement process launches with Request for Qualifications Start of consultation for community benefits

Identified need for an additional crossing option

Detroit River International Crossing (DRIC) Study: 2005-2009

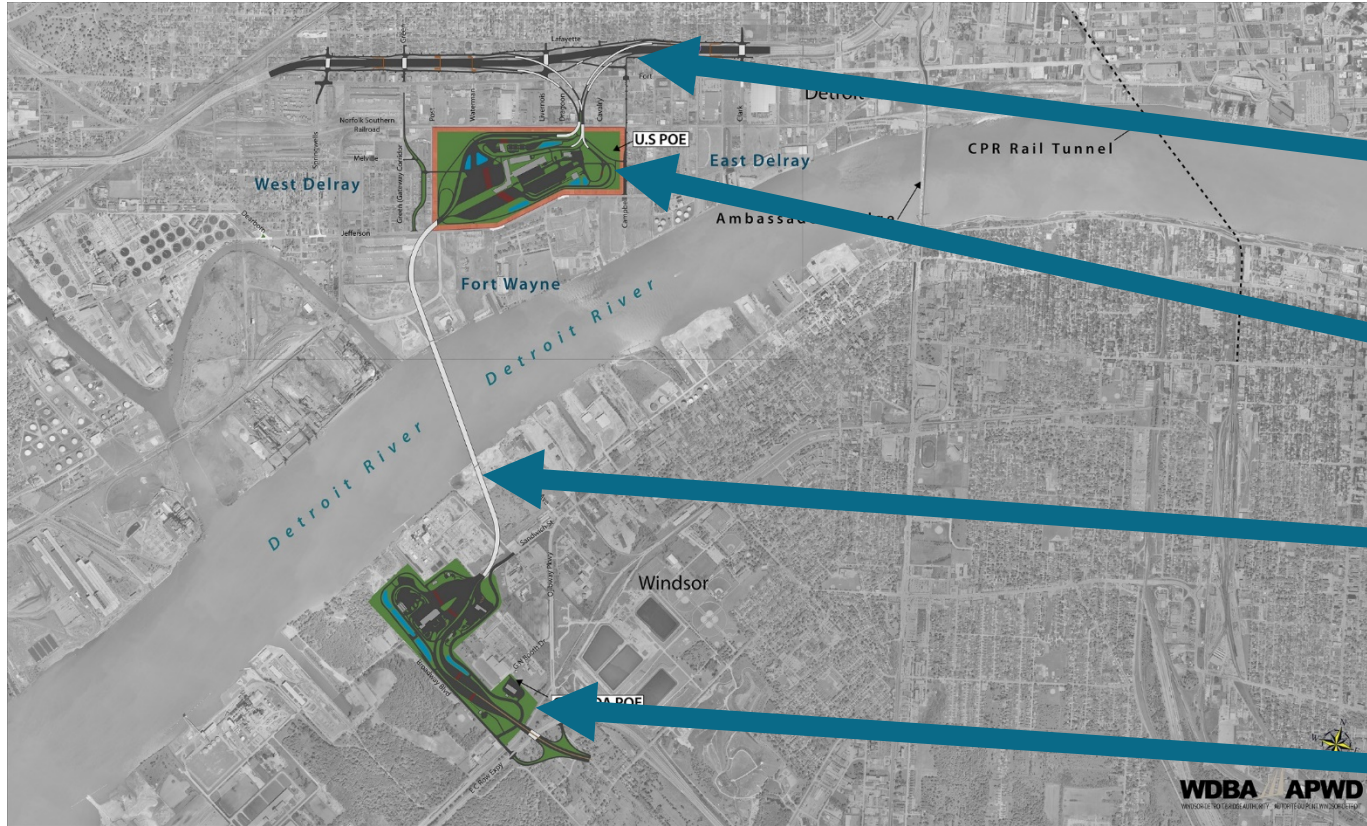
- A coordinated environmental study process completed by Canada, the US, Ontario and Michigan confirmed need and the location of five components:
 - Michigan Interchange to Interstate-75 (I-75)
 - A US Port of Entry (POE)
 - A river crossing, now known as the Gordie Howe International Bridge
 - A Canadian Port of Entry
 - An Ontario access road, now known as the Rt. Hon. Herb Gray Parkway (*delivered by Ontario*)

Project History

Timeline	Activity
2016	<ul style="list-style-type: none">• RFQ short-listed respondents announced• Issuance of the RFP to Proponents• Business-to-Business meetings held between Proponent teams and potential contractors in Windsor, Detroit and Walpole Island First Nation
2017	<ul style="list-style-type: none">• Announcement of multi-use path to be incorporated onto Bridge• Community Group-to-Business meetings held between Proponents and community agencies in Windsor and Detroit• Demolition of structures at US project site begin
2018	<ul style="list-style-type: none">• Proposals received in response to Request for Proposals (RFP)• Tree clearing at US project site begin• Owner's Engineer contract awarded

Gordie Howe International Bridge Project

Project Components



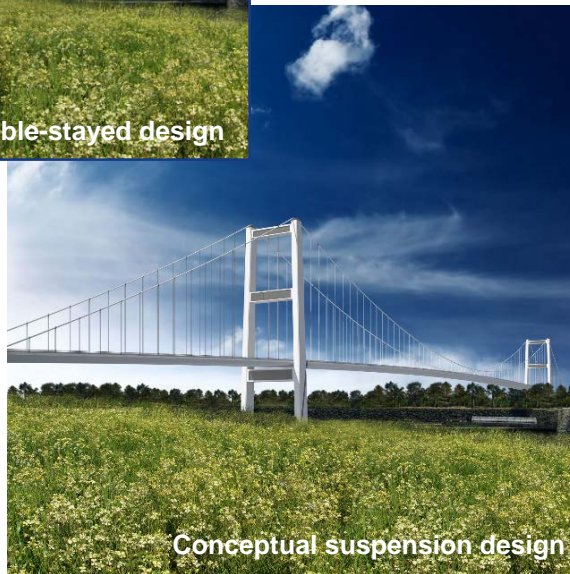
1. Michigan Interchange
2. US Port of Entry (POE)
3. Gordie Howe International Bridge
4. Canada Port of Entry (POE)

Gordie Howe International Bridge Project

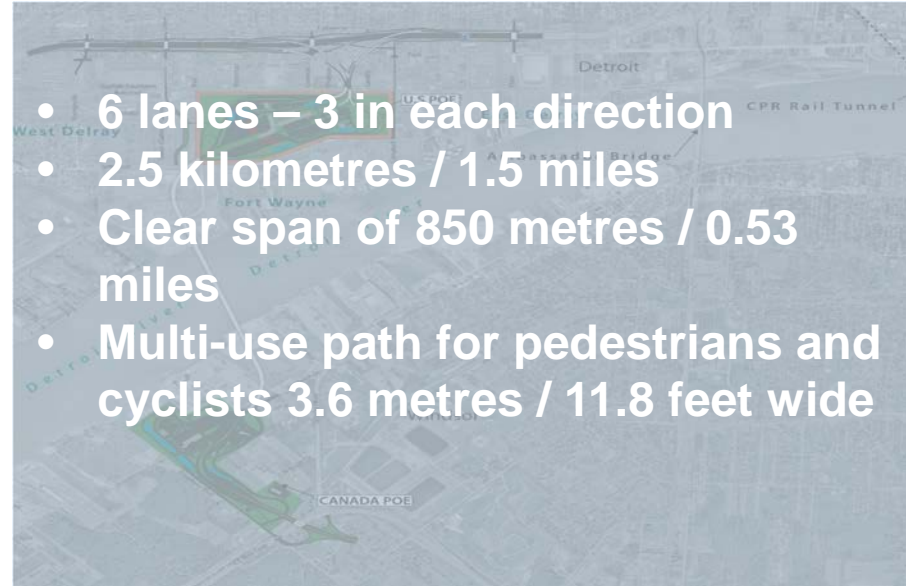
The Bridge



Conceptual cable-stayed design



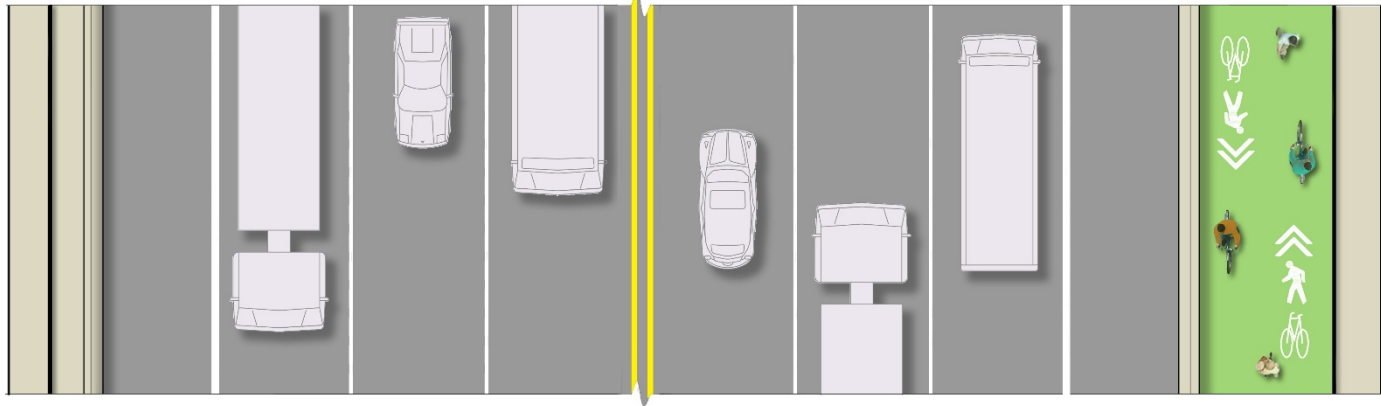
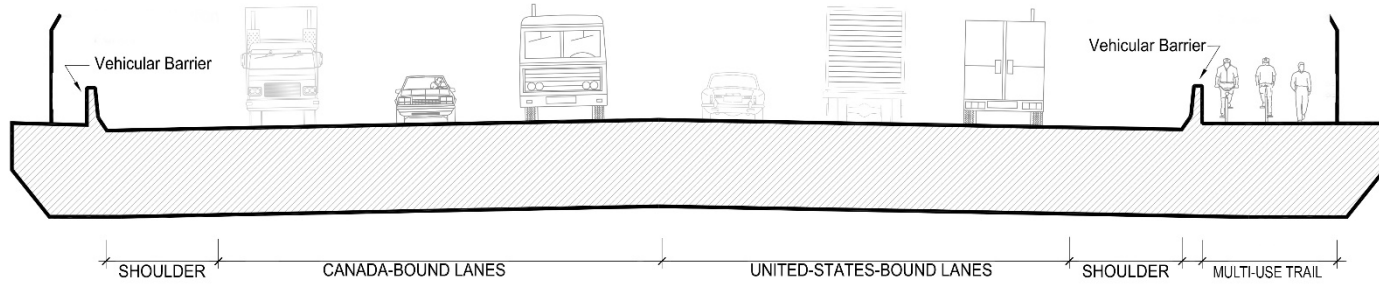
Conceptual suspension design



- 6 lanes – 3 in each direction
- 2.5 kilometres / 1.5 miles
- Clear span of 850 metres / 0.53 miles
- Multi-use path for pedestrians and cyclists 3.6 metres / 11.8 feet wide

Bridge Cross-Section

Fort Wayne



Canadian Port of Entry



Preliminary conceptual PIL booth design

- Will be the largest Canadian port along the Canada-US border and one of the largest anywhere in North America
- 53 hectares / 130 acres
- 24 primary inspection booths
- Outbound inspection facilities
- Toll collection facilities for both US- and Canada-bound traffic

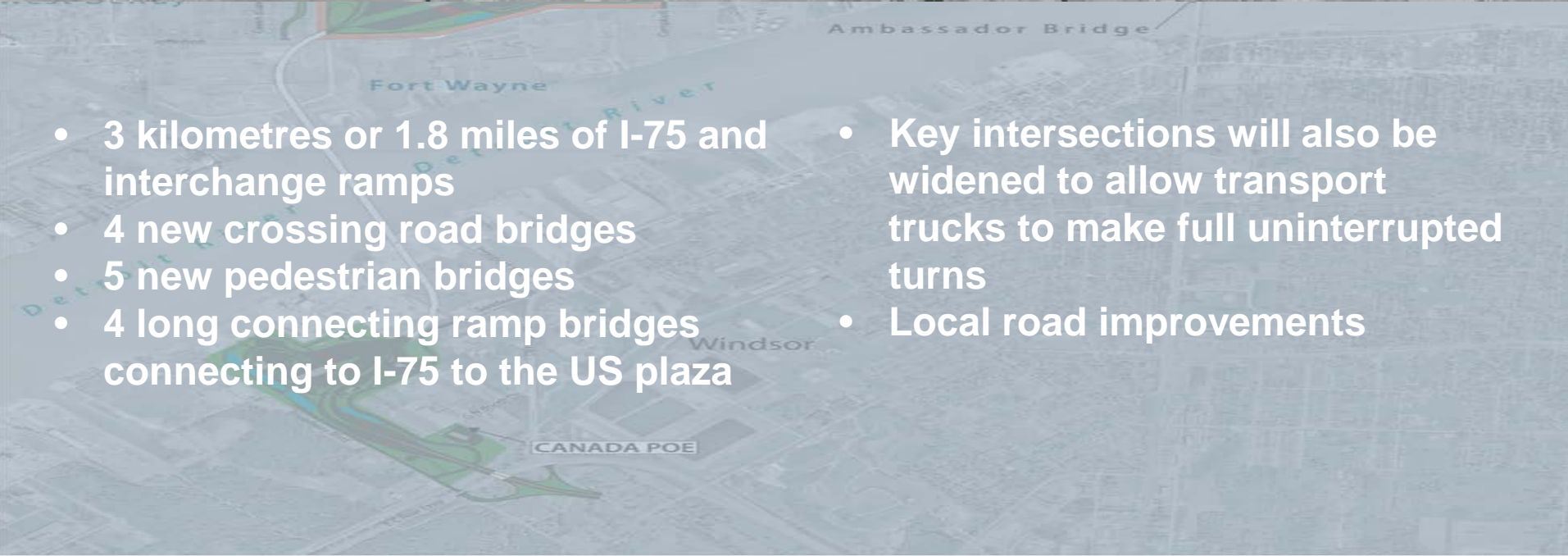
US Port of Entry



Preliminary conceptual view from primary inspection

- Will be one of the largest US ports along the US-Canada border and one of the largest anywhere in North America
- 68 hectares / 167 acres
- 36 primary inspection booths
- Outbound inspection facilities
- Commercial exit control booths

The Michigan Interchange



- 3 kilometres or 1.8 miles of I-75 and interchange ramps
- 4 new crossing road bridges
- 5 new pedestrian bridges
- 4 long connecting ramp bridges connecting to I-75 to the US plaza
- Key intersections will also be widened to allow transport trucks to make full uninterrupted turns
- Local road improvements

Community Features

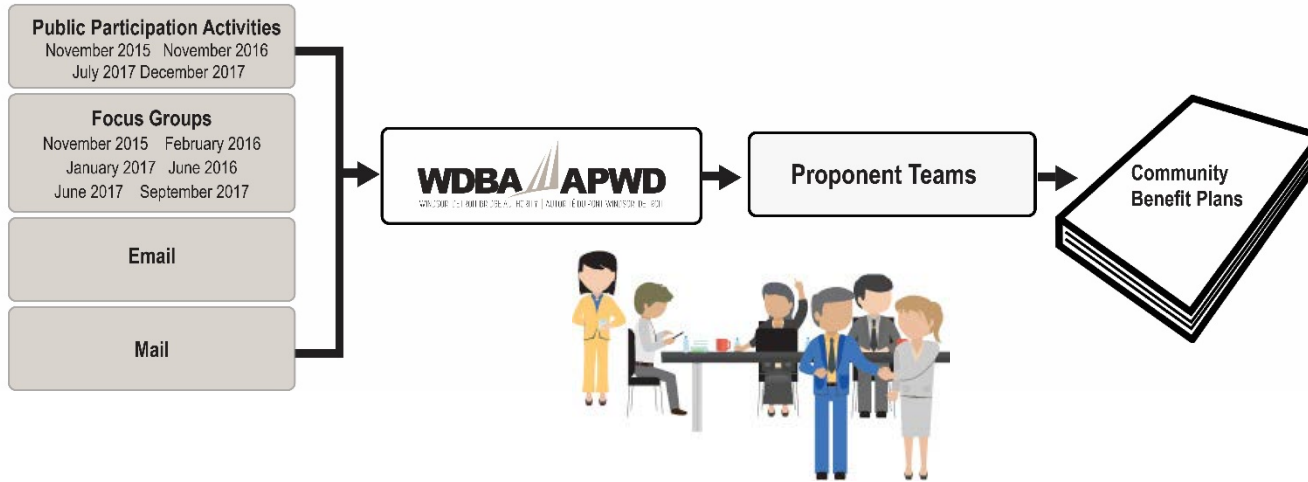
- City of Detroit
 - Local roads improvements/complete streets
 - Pedestrian bridge at Junction
- City of Windsor
 - Local road improvements
 - Integrated public art at the Canadian POE
- Noise mitigation measures
- Landscaping
- Environmental/species at risk mitigation measures
- Direct engagement with Canadian Indigenous Peoples

Community Benefits Plan

Canadian and US consultation suggests the following regional priorities:



Community Benefits



- Proponents developed and submitted community benefits plans to WDBA as part of the RFP submission.
- The private-sector partner will deliver the plan with oversight from WDBA.

WDBA in the Community



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WDBA in the Community



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Engaging Youth



WDBA APWD
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**Show Us Your Bridge
2018
Art Challenge**

www.GordieHoweInternationalBridge.com

Gordie Howe International Bridge Project

Project-related Job and Contracting Opportunities



Regional hiring is anticipated for jobs on both sides of the border



Local subcontractors offer the private-sector partner benefits such as proven experience with local labour pools and knowledge of local conditions



A local employment planning council completed a study of jobs most likely in demand for the project: www.workforcewindsorsex.com

WDBA APWD
WINDSOR DETROIT AREA PRIVATE-SECTOR PARTNER

Gordie Howe International Bridge Skilled Trade Job Opportunities

The Gordie Howe International Bridge project will bring job opportunities to the Windsor-Detroit area in many fields. Consisting of four components – the bridge, two Ports of Entry and the Michigan Interchange – the project will generate significant employment not just during the construction phase, but also during the operations phase that follows. Occupations anticipated to be in demand by WDBA's future private-sector partner are identified in bold and related training programs are in italics.

Building Technician <i>Architectural Technology</i>	CAD Designer/Specialist <i>Civil Engineering Technology</i> Mechanical Technician - CAD/CAM	Highway Electrician	Millwright <i>Mechanical Engineering Technician - Industrial</i>	Foreman
Carpenter <i>Carpentry and Renovation Techniques</i>	Telecommunications Technician <i>Computer Networking Technician</i>	Ironworker	Toolroom Attendant <i>Mechanical Engineering Technician - Industrial</i>	Pipe Fitter <i>Pipelining Techniques</i> Welding Techniques
Construction Site Logistics Planner <i>Civil Engineering Technology</i>	Highway Maintenance Technician <i>Construction Engineering Technician</i>	Painter	Electrical Estimator <i>Electrical Techniques</i>	Pipe Welder <i>Welding Techniques</i> Welding Techniques
Estimator <i>Civil Engineering Technology</i> Construction Engineering Technician	Sign Crew Member <i>Construction Engineering Technician</i>	Electrician <i>Electrical Techniques</i>	Field Technician	Mechanic <i>Power Engineering Technology - Mechanical</i>
Surveyor <i>Civil Engineering Technology</i> Mechanical Technician - CAD/CAM	Heavy Equipment Operator	HVAC <i>Heating, Refrigeration & Air Conditioning Technician</i>	Instrument Fitter	Mechanical Technologist <i>Power Engineering Technology - Mechanical</i>
	Concrete Finisher	Irrigation Technician <i>Horticulture Technician</i>	Testing and Commissioning Field Specialist	Heavy Mechanic <i>Truck and Coach Technician</i> Apprenticeship
		Concrete Paving Labourer and Cement Mason <i>Landscape Horticulture</i>	Technical Services Technician	

Some of these jobs require specialized training that is available at colleges and universities in Greater Detroit and Windsor-Essex. Contact your local college or university today to learn more about the training that may be needed to gain work on the project.
* List provided by Workforce WindsorEssex

Canada ^{INT}

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Stay Connected

There are many ways to stay up-to-date on the project.

- Follow us @gordiehowebtg
- Like us @gordiehowebridge
- Follow us @gordiehowebtg
- Connect with us WDBA-APWD
- Subscribe to YouTube.com/GordieHoweBridge
- Visit our website wdbridge.com
- Call us 519-946-3038
- Email us info@wdbridge.com

WDBA APWD

Gordie Howe International Bridge Project

Preparatory Works – Canada



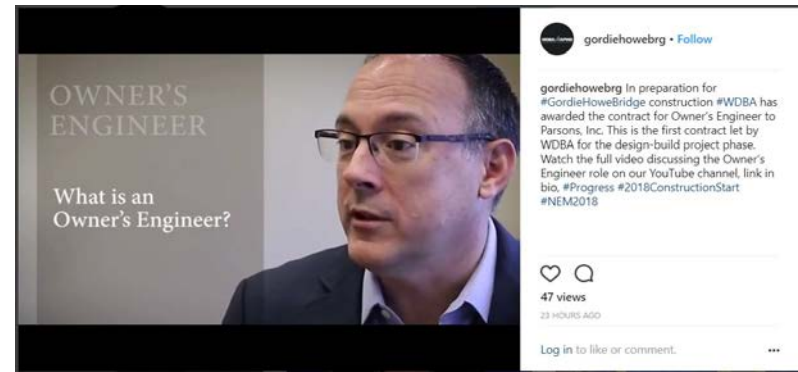
Preparatory Works – Canada



Preparatory Works – Canada

Selection of Owners Engineer

- \$61 million contract awarded to Parsons Inc.
- Parsons began its work as Owner's Engineer in April 2018
- In its role, Parsons will support the owner – WDBA – through design review, providing technical advice and monitoring and overseeing the construction activities of the private-sector partner through inspections, compliance reviews and audits.



Protection of Species At Risk

The area to host the Canadian Port of Entry is home to several species at risk (SAR). Environmental mitigation and protection are an important part of the project.



Kentucky Coffee Tree



Willowleaf



Blazing



Butler's Gartersnake



Additional preventative measures include:

- Snake SAR Surveys and Habitat Assessment
- Installation of temporary exclusion fencing
- Capture and relocation of snake SAR
- Plant SAR surveys and vegetation mapping
- Plant SAR removal and transplanting
- Breeding bird and SAR surveys.

US Property Acquisition

- 634 land parcels are required for the Gordie Howe International Bridge project.
- To date, MDOT has acquired and/or has control of 95 per cent of the required parcels.
- Relocation assistance and support will continue to be provided.
- The condemnation process will be carried out as needed on a parcel-by-parcel basis.

Property by the Numbers

634 total land parcels required

229 residential relocations required

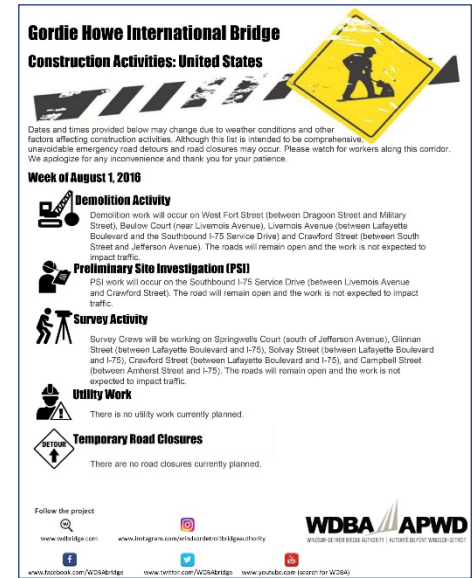
88 business relocations required

93 per cent of total property acquired/in control

255 structures demolished or in demolition process as of April 1, 2018

US Works: Utility Relocation

- Utilities located within the US Port of Entry footprint and the land required for the bridge footings require relocation.
- Many utilities are completing the relocation work themselves or through their preferred contractor.
- Private utility relocation work will occur with no anticipated service interruptions.
- All utility relocation work (Permitted Activity) must comply with municipal guidelines and procedures for notifications, hours of work, noise and disposal of materials as outlined in the permitting documents.



Gordie Howe International Bridge
Construction Activities: United States

Dates and times provided below may change due to weather conditions and other factors affecting construction activities. Although this list is intended to be comprehensive, unavoidable emergency road detours and road closures may occur. Please watch for workers along this corridor. We apologize for any inconvenience and thank you for your patience.

Week of August 1, 2016

- Demolition Activity**
Demolition work will occur on West Fort Street (between Dragon Street and Military Street), Shadow Court (near Livemore Avenue), Livemore Avenue (between Lafayette Boulevard and the Southbound I-75 Service Drive) and Crawford Street (between South Street and Jefferson Avenue). The roads will remain open and the work is not expected to impact traffic.
- Preliminary Site Investigation (PSI)**
PSI work will occur on the Southbound I-75 Service Drive (between Livemore Avenue and Crawford Street). The road will remain open and the work is not expected to impact traffic.
- Survey Activity**
Survey Crews will be working on Springville Court (south of Jefferson Avenue), Gliman Street (between Lafayette Boulevard and I-75), Solovy Street (between Lafayette Boulevard and I-75), Crawford Street (between Lafayette Boulevard and I-75), and Campbell Street (between Amherst Street and I-75). The roads will remain open and the work is not expected to impact traffic.
- Utility Work**
There is no utility work currently planned.
- Temporary Road Closures**
There are no road closures currently planned.

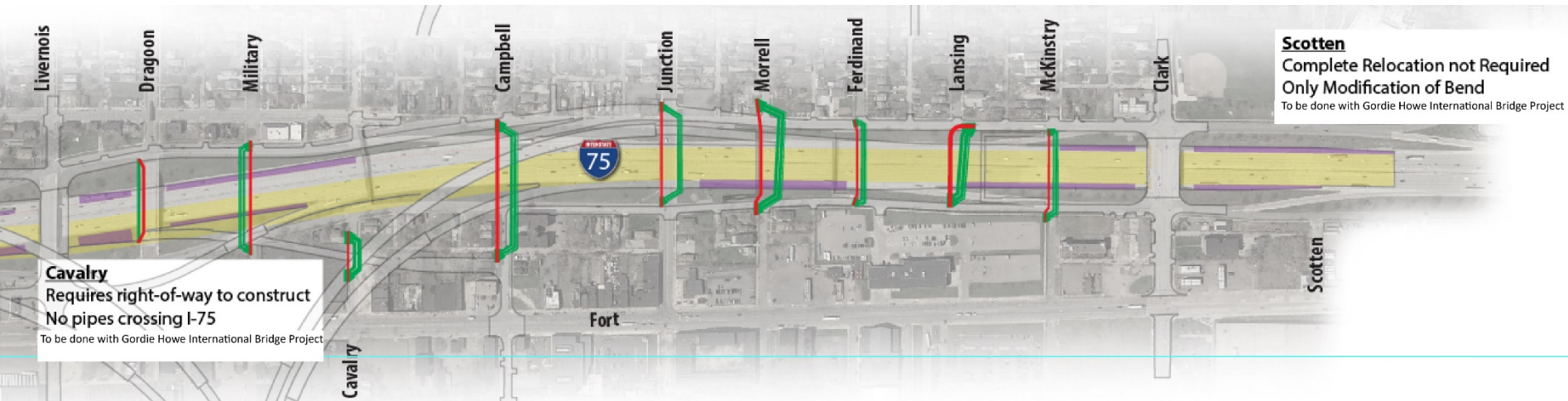
Follow the project
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www.instagram.com/detroitdetroitbridgeauthority
www.facebook.com/WCS484rfdp
www.youtube.com/channel/UCWCS484rfdp

WDBA APWD
WINDSOR DETROIT BRIDGE AUTHORITY | ACTIVE RELIABLE. UNITED STATES

WDBA posts weekly Construction Notices online and at various community locations in Windsor and Detroit regarding upcoming work

US Works: Siphons and Combined Sewers

Several siphons and combined sewer crossings beneath I-75 require relocation and replacement.



The locations of siphons and combined sewer crossings which will have their pipes under I-75 mainline pavement installed as part of the Inlay Project.

The Procurement Process: Overview

WDBA's procurement process is designed to choose a private-sector partner with the skills, experiences and resources necessary to design, build, finance, operate and maintain the Gordie Howe International Bridge project.



Public-Private Partnership (P3) Benefits

The benefits of a P3 include:

- Risks are appropriately shared between the government and the private sector. For instance, cost overruns and delays to projects are shifted from the taxpayer to the private sector.
- A 'whole life' approach is used in the delivery of the project with the private sector having responsibility for the design and delivery of the project and also the long-term operations and maintenance.
- The private sector's expertise, efficiencies and innovation are utilized in delivering large-scale infrastructure projects as specified by the public sector.
- The private sector is paid only on performance, aligning financial incentives for on- time, on-budget delivery and for the achievement of performance standards during the useful life of the asset.

Fairness Monitor Role

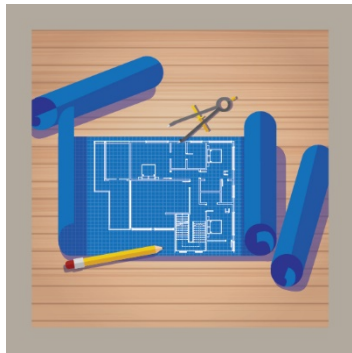
A Fairness Monitor (P1 Consulting) was selected through an open procurement process. They have been engaged by WDBA for the length of the procurement process to act as an objective, third party observer who monitors the procurement process to ensure that it is conducted in a fair, open and transparent manner and to monitor:

- Compliance with WDBA's procurement process, policies and guidelines
- Compliance with confidentiality and Conflict of Interest requirements
- Evaluation Criteria and procedures are defined and applied fairly, objectively and free of bias

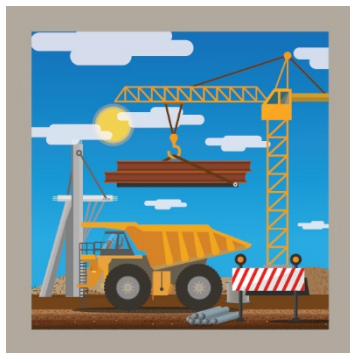
To ensure all Respondents/Proponents treated fairly and equitably, e.g. given access to the same information at the same time.

Private-Sector Partner Responsibilities

WDBA's private-sector partner will be responsible to design, build, finance, operate and maintain the Canadian and US Ports of Entry and the bridge and to design, build and finance the Michigan Interchange. Michigan will be responsible for the operations and maintenance of the Michigan Interchange.



Design



Build



Finance



Operate



Maintain

Request for Qualifications (RFQ) Stage

- July 20, 2015 – January 20, 2016
- Six different North American and international teams responded to the RFQ.
- All six responses underwent rigorous, objective, consensus-based evaluations and were considered to be qualified.
- All the Respondents were required to comply with all applicable laws and Public Services and Procurement Canada's Integrity Framework.
- The RFQ evaluation, conducted by both public- and private-sector experts, was overseen by an independent fairness monitor who concluded that the evaluation was fair, open and transparent.

Request for Qualifications Evaluation Criteria

Points/100	Evaluation Categories
15	Respondent Team and Approach to Partnering
20	Design Team – Approach and Experience
25	Construction Team – Approach and Experience
5	Tolling
10	Capacity and Experience
10	Approach
20	Financial and Financing

Request for Proposals Stage

- November 10, 2016
- Issued to the three Proponents
- The RFP sets out the conditions and specifications required to deliver the Gordie Howe International Bridge project.
- The Proponents were to prepare and submit their binding technical and financial proposals, including a fixed price and construction schedule.
- Throughout this stage, WDBA and the Proponents had ongoing dialogue through Commercially Confidential Meetings and a Request for Information process.

Request for Proposals – Technical Submission Requirements

Evaluation Categories
Executive Summary
Project Management
Bridge Design, Construction and OMR
Port of Entry Design, Construction and OMR
Michigan Interchange Design and Construction
Tolling and ITS
Community Benefits
Preliminary Aesthetic Design

Proposals Evaluation

- The technical and financial proposals were evaluated by subject-matter experts with extensive engineering and financial, and legal expertise.
- Technical score and financial score combined.
- WDBA looked for the proposal that best met the requirements set out in the RFP and provides the best value to deliver the project requirements.
- Proponent with highest overall score is the Preferred Proponent.

Evaluation Principals

- Independent and Unbiased
- Conducted by experts and overseen by professionals
- Segregation of Information
- Transparent and Confidential

Selection of Evaluators

- Independent and Unbiased
 - Must be independent, with no vested interest and not be directly responsible for the decision making or approval of the overall evaluation results
 - Free to conduct their work impartially and express their opinion in a free manner
- Knowledge, Expertise and Experience
 - Must possess requisite subject matter expertise relating to the content being reviewed
 - Directly engaged with the Project, requirement of the RFP/PA and evaluation methodology
 - Prior evaluation experience in public sector procurements

Evaluation of Point Rated Criteria

- Evaluators were required to:
 - Be fair, objective, unbiased and impartial
 - Apply a consistent approach to each criterion
 - Avoid acting in an arbitrary manner
 - Not consider any information other than what was submitted in the proposal
 - Not evaluate poor formatting or disorganization
 - Thoroughly document results and rationale

Next Steps

- **Early Work**
 - Advance construction in Michigan
 - Timing: July
- **Financial Close**
 - Negotiate partnership details
 - Execute Project Agreement (contract for next 30 years)
 - Timing: by end of September
- **Start of Construction**
 - Begin major construction
 - Timing: Fall 2018

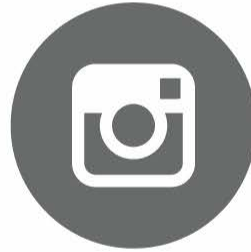
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