

Gordie Howe International Bridge



Quarterly Public Meeting - Detroit
April 18, 2018

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

Gordie Howe International Bridge Project



What is Windsor-Detroit Bridge Authority?

- A not-for-profit Canadian Crown corporation created in 2012
- Reports to the Canadian Government through the Minister of Infrastructure and Communities
- Manages the procurement process for the design, construction, financing, operation and maintenance of the new bridge through a public-private partnership (P3)
- Will oversee the work of the P3 partner and will manage the project agreement and payments

Project Collaboration: Working with Michigan

- MDOT and the Governor's Office are active participants in the planning and in advance of the Gordie Howe International Bridge.
- Michigan's participation in the project is vital and MDOT plays a key role in the delivery of the project which includes supporting WDBA in:
 - US property acquisition
 - US utility relocation
 - Coordinating activities
 - P3 procurement process
 - US stakeholder interactions and community outreach initiatives.
- The Gordie Howe International Bridge will be publicly-owned by the Government of Canada and the State of Michigan.



Project History and Accomplishments

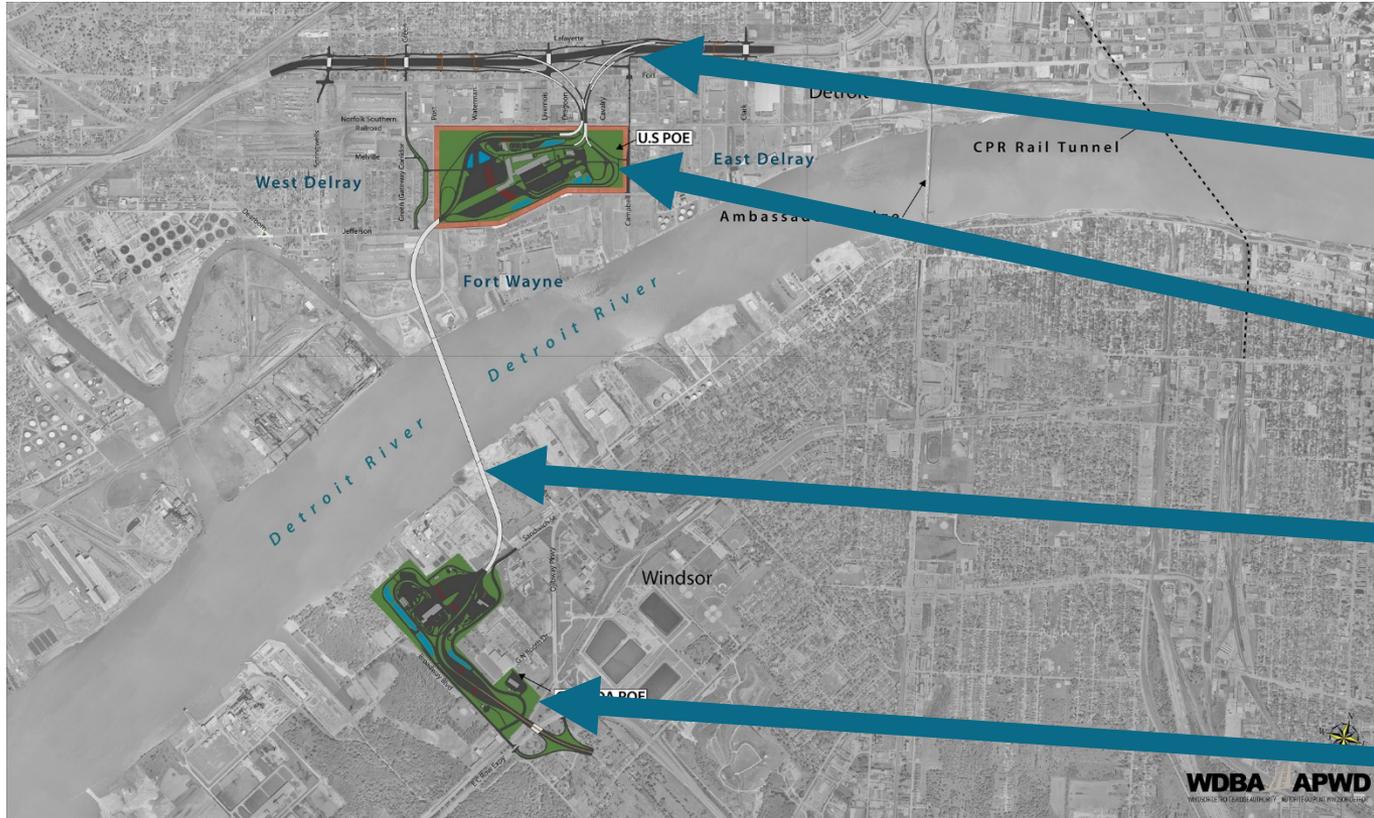
Timeline	Activity
2001-04	<ul style="list-style-type: none"> Planning/Need and Feasibility Study
2005-09	<ul style="list-style-type: none"> Coordinated environmental study process completed by Canada and the US Canada determines that the Project will not have significant environmental impact, with mitigation 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
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 Early Works at Canadian Port of Entry begins P3 Procurement process launches with Request for Qualifications
2016	<ul style="list-style-type: none"> RFQ short-listed respondents were 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 More than 50 positions filled at WDBA Windsor office

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 Components



Legend

1. Michigan Interchange

2. US Port of Entry (POE)

3. Gordie Howe International Bridge

4. Canada Port of Entry (POE)

Consultation and Communication

Public consultation will continue in Canada and the US throughout the project phases. The DRIC study identified many items that require public consultation prior to implementation.

Topics

Aesthetics, Lighting, Visual Effects
Sediment Erosion
Air Quality
Species at Risk/Invasive Species/Wildlife/Migratory Birds
Archaeology
Traffic/Local Roads
Fish/Aquatics
Vegetation/Trees
Infrastructure
Vibration
Noise
Waste/Spills/Excavated Materials
Pedestrians/Bicycling Bridges at Michigan Interchange
Water Quality/Groundwater/Stormwater/Surface Water

When?

Consultation will occur throughout the Design and Build phases of the project

Design Phase

Build Phase

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.



The Procurement Process: P3 Milestones

2018 is a pivotal year for the project with several anticipated milestones

May 2018



Close of RFP Open Period:
Proponents submit
proposals for evaluation

June 2018



Identification of Preferred
Proponent

Summer 2018



Start of advance
construction in US

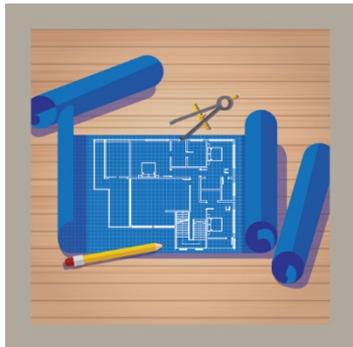
September 2018



Financial close

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

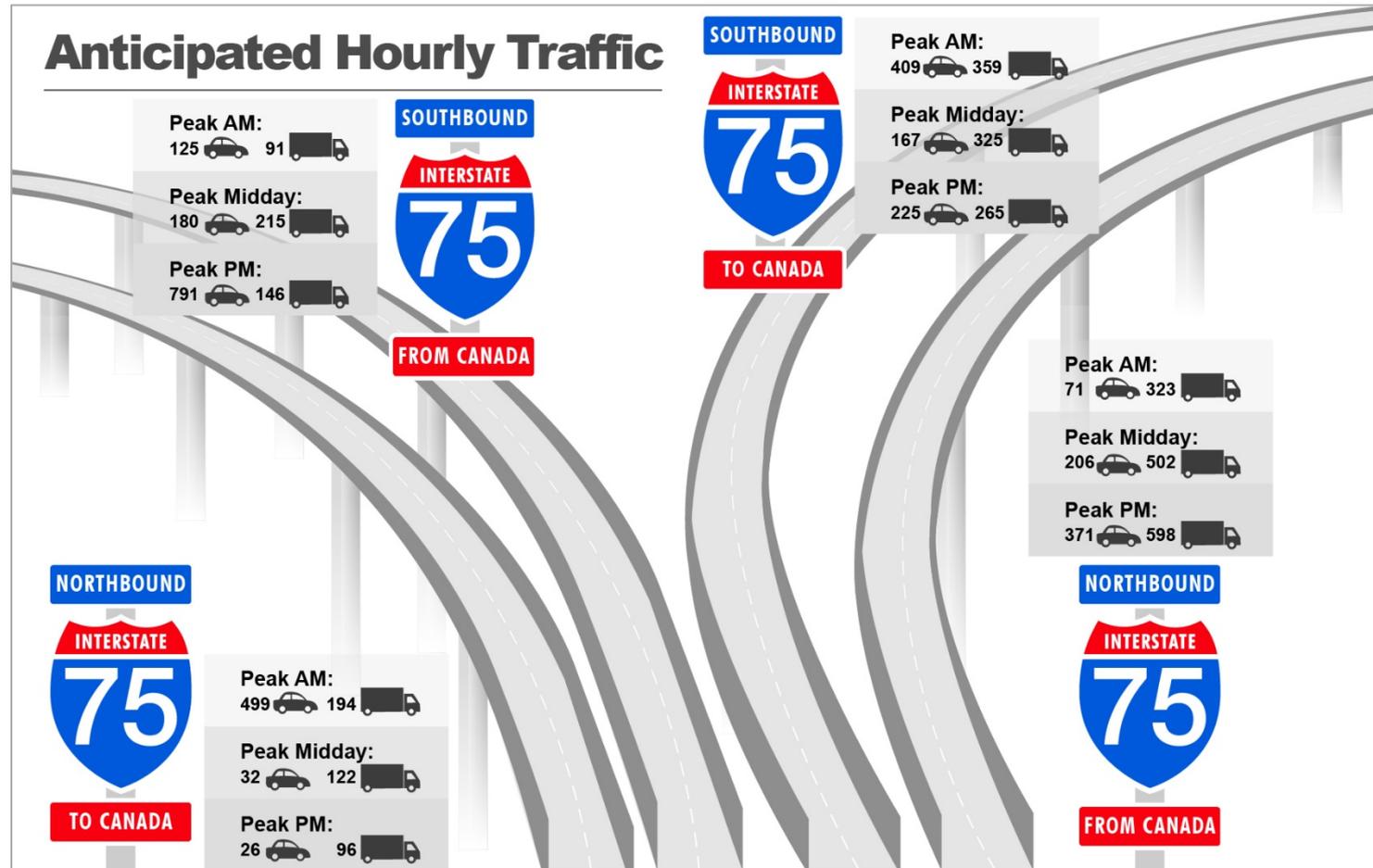


Operate



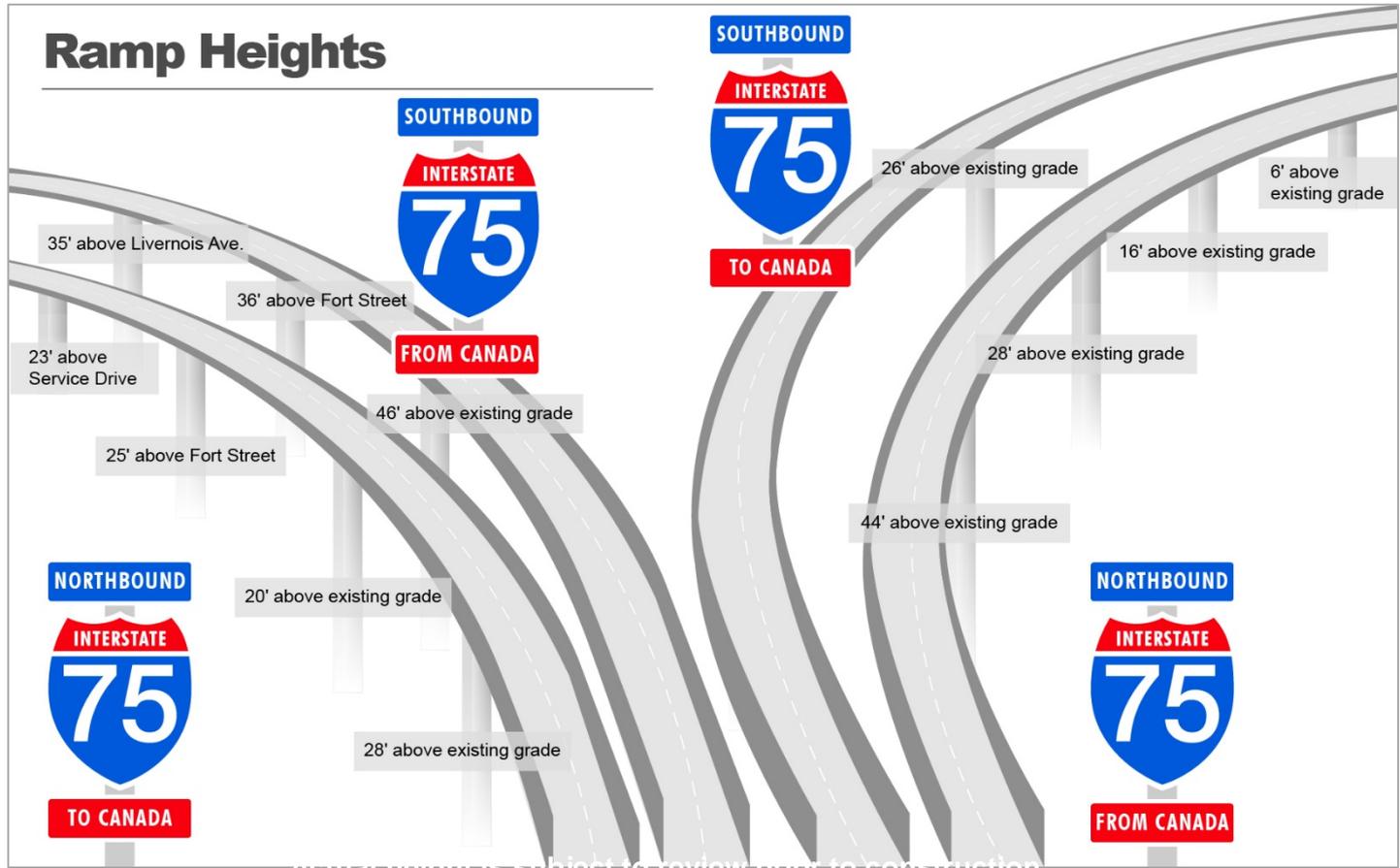
Maintain

I-75 Traffic Design: Anticipated Hourly Traffic



Anticipated traffic estimates are under review and may be adjusted pending survey results.

View from I-75 Interchange: Ramp Heights



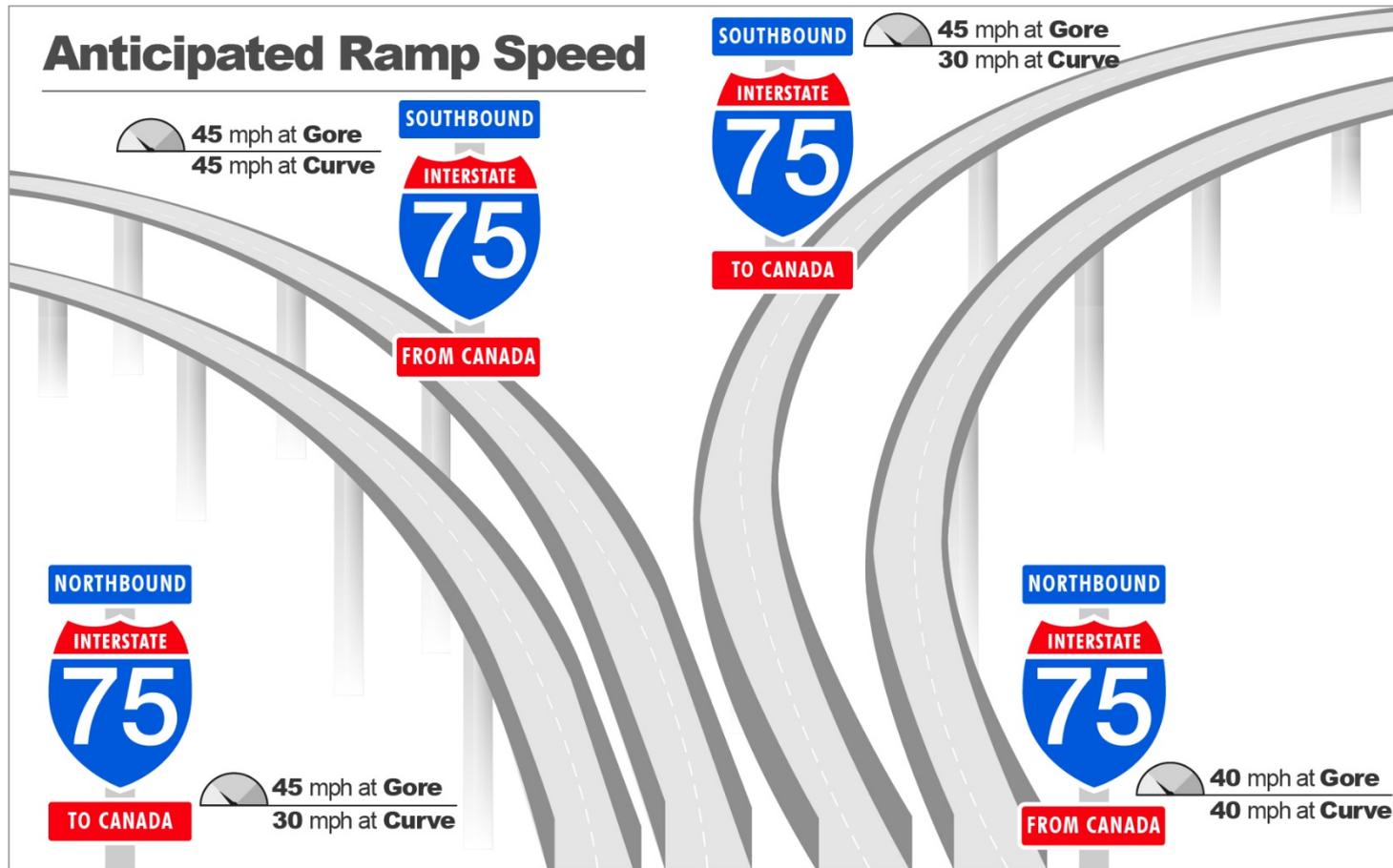
Ramp heights will begin below grade for vehicles exiting I-75 and quickly elevate to a maximum of 44-46 feet above street-level prior to descending to ground level at the Port of Entry.

Actual height is subject to review prior to construction.



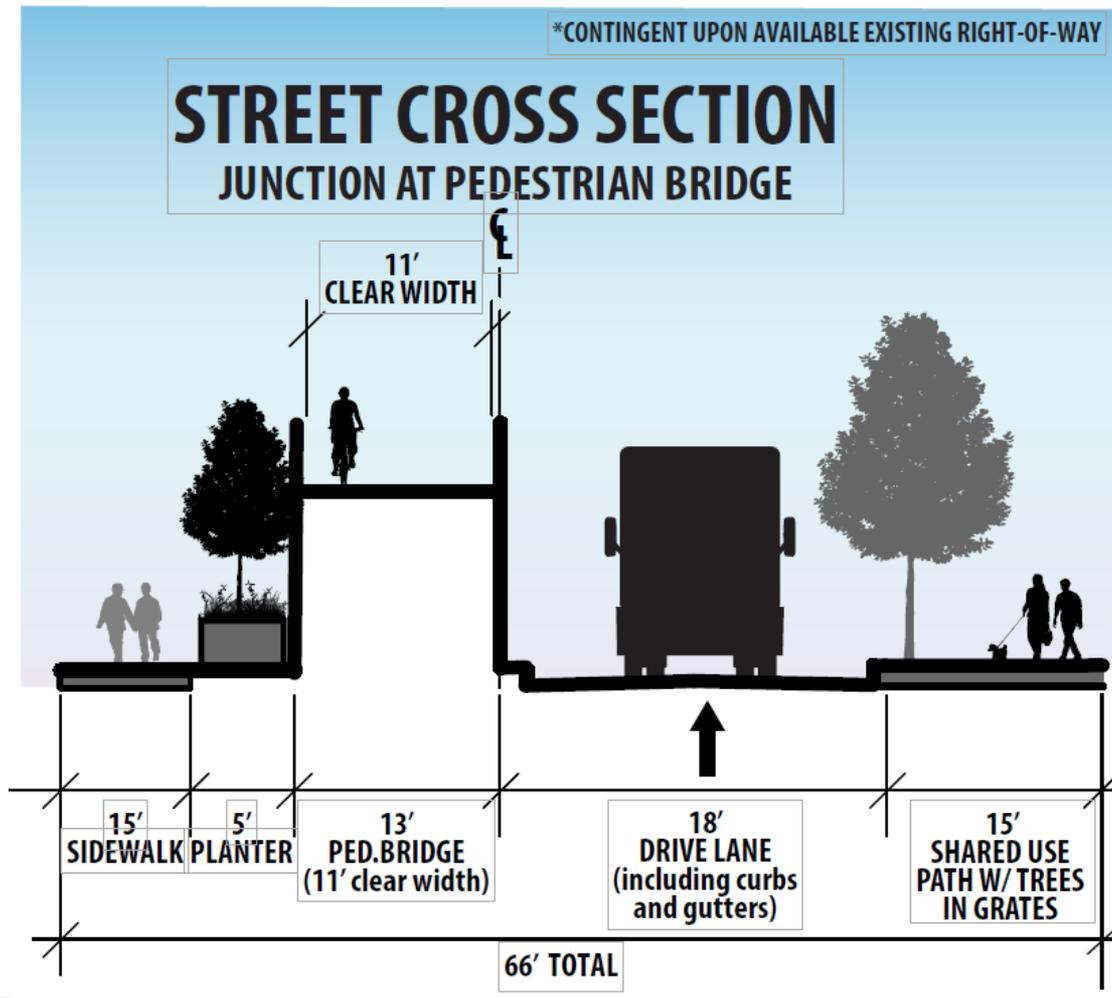
For discussion purposes only

I-75 Traffic Design: Anticipated Ramp Speed

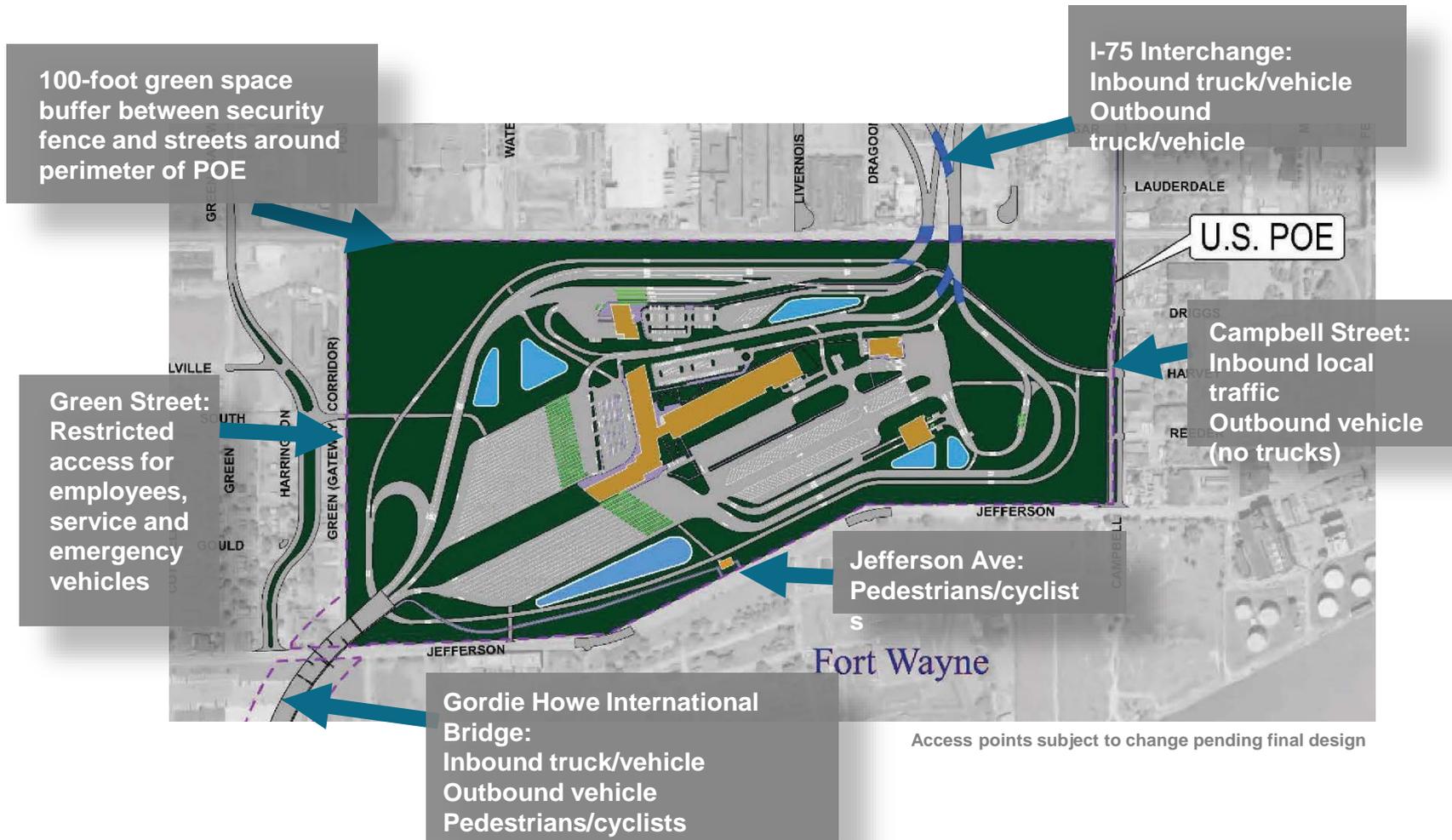


Anticipated ramp speeds are subject to change and may be adjusted prior to implementation.

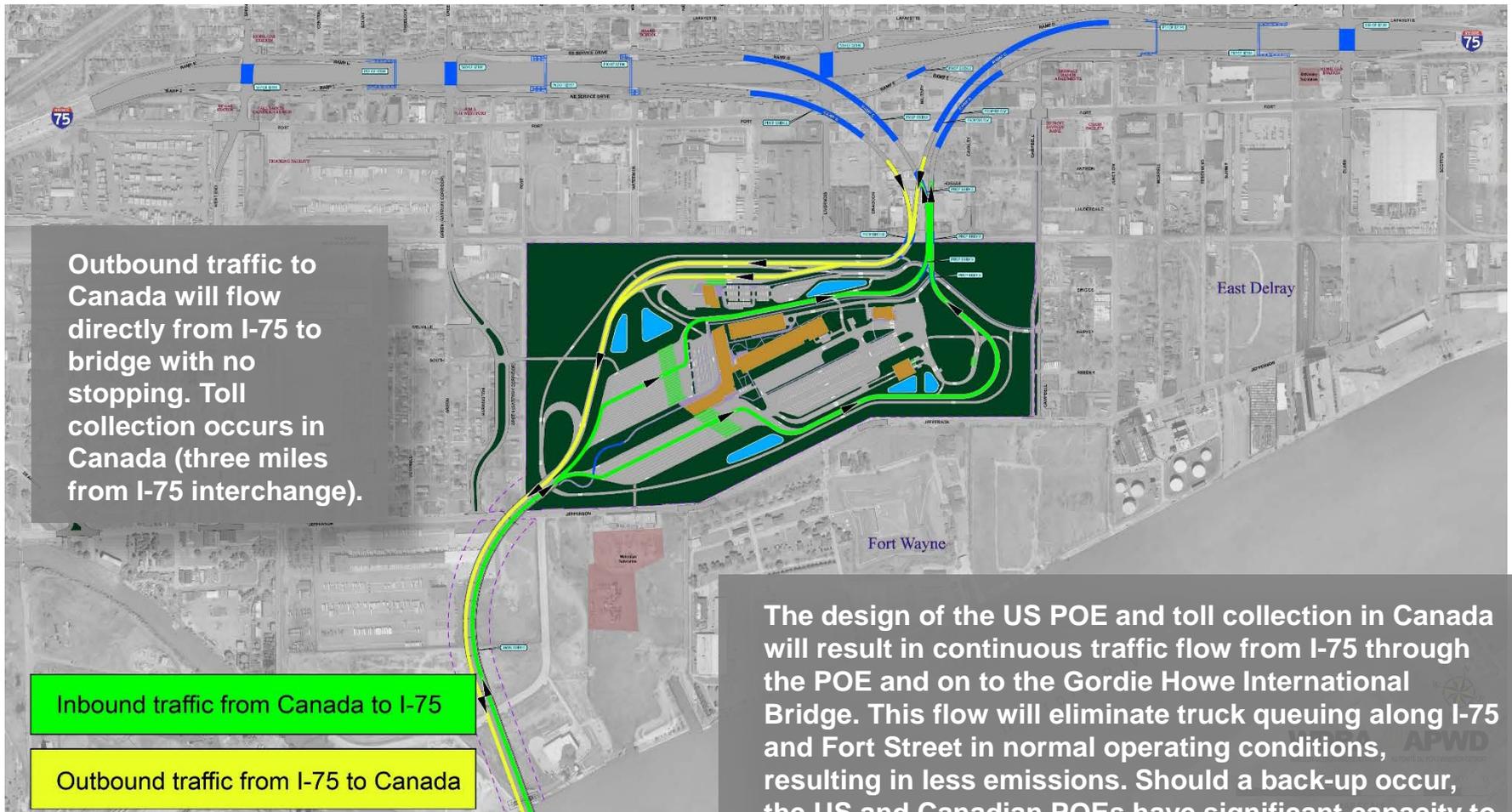
Neighborhood Connectivity



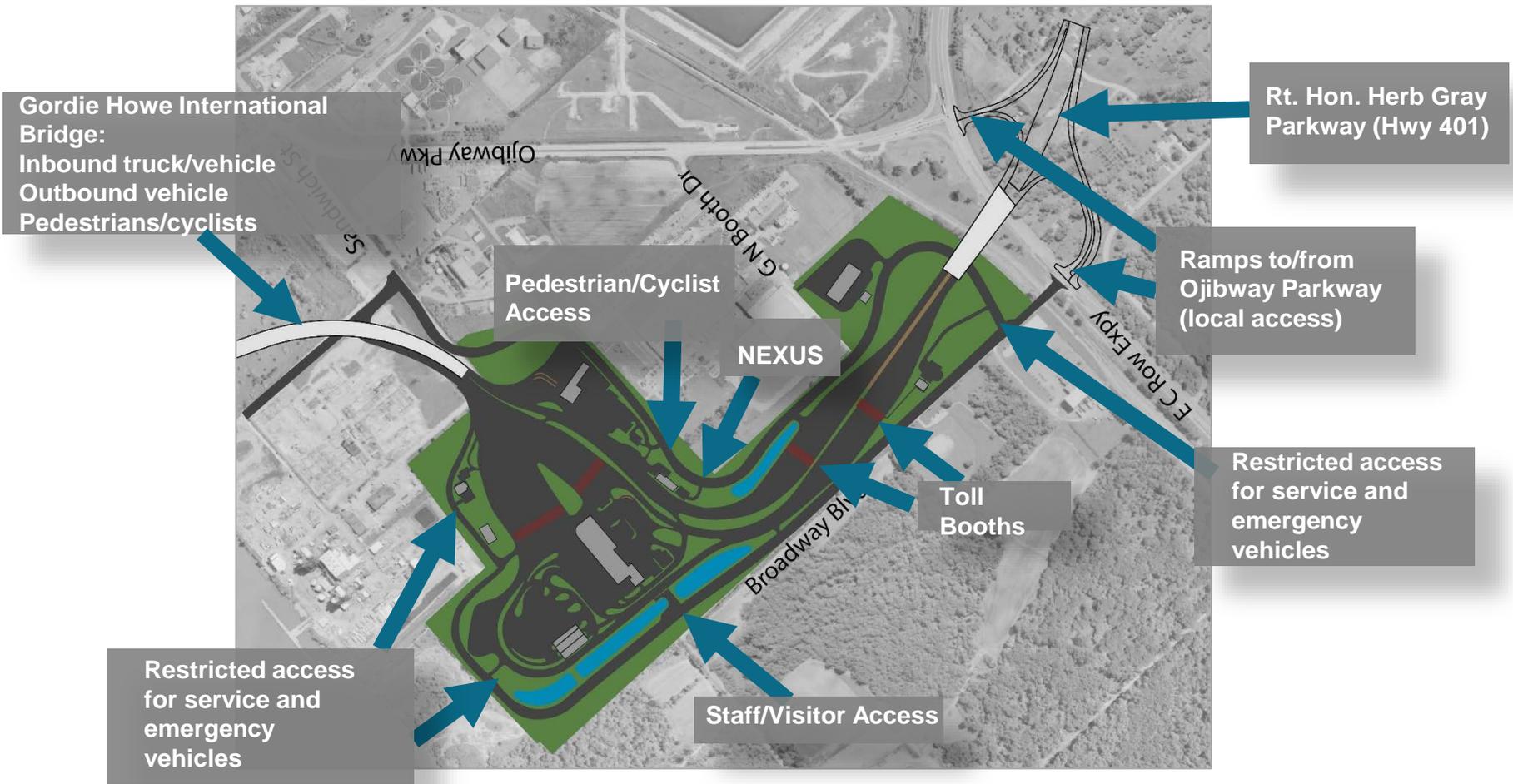
US Traffic Patterns: Anticipated Access Points



US Traffic Flow to US POE



Canadian Traffic Patterns: Anticipated Access Points



US Works: Property Acquisition

- 636 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
636 total land parcels required
211 residential relocations required
36 business relocations required
95 per cent of total property acquired/in control
235 structures demolished or in demolition process as of April 1, 2018



US Works: Demolition

- Demolition is advancing quickly with 236 completed to date.
- Contractors are expected to follow mitigation measures, in accordance with MDOT Standard Specifications, including:
 - Provision of Sanitation Facilities
 - Protection and Restoration of Property
 - Compliance with State, federal and local laws, rules, ordinances
 - Dust Control
 - Sweeping
 - Removing debris or material from traffic lanes

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.
- If you have questions or concerns regarding utility work in your neighbourhood, please contact the utility directly.

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.

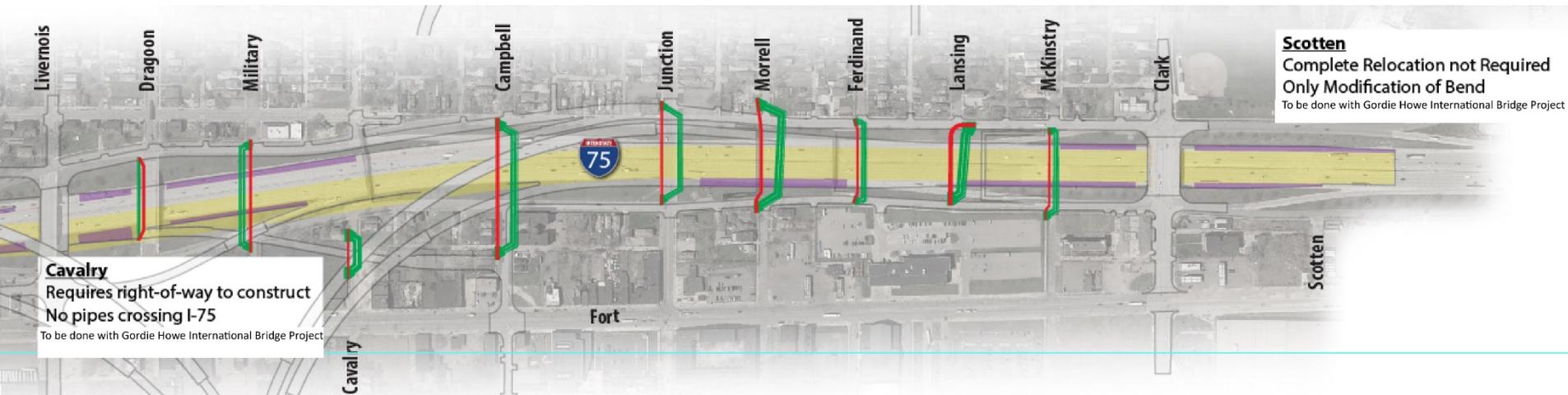
Follow the project
www.usbridge.com
www.instagram.com/detroitfordetroitbridgeauthority
www.facebook.com/WCS48rfdps
www.youtube.com/channel/UCWCS48rfdps

WDBA | APWD
WINDSOR DETROIT BRIDGE AUTHORITY | ACTIVE RELIABLE WINDSOR SERVICE

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.

US Works: Tree Removal

- Removal of approximately 4000+ trees on properties required for the US Port of Entry footprint are being removed in preparation for construction.
- MDOT has conducted an extensive tree survey and no species at risk (SAR) vegetation has been identified.
- Tree removal will be conducted by a private contractor, Owen Tree Services and by DTE's contractor for trees within 15 feet proximity of utility lines.
- Work began in March and is expected to last 10 weeks. Tree removal will be done as-needed following this time.



Upon completion of the Gordie Howe International Bridge project, the community will benefit from thousands of new native trees and vegetation that will be planted as part of the project's landscape design.

Mitigation Elements: What to Expect

In accordance with commitments made during the Detroit River International Crossing (DRIC) study, the following mitigation elements were identified for inclusion during construction of the US components of the Gordie Howe International Bridge:

- 100- ft landscaped buffer to be incorporated in the lands surrounding the perimeter fencing of the Port of Entry.
- Existing trees will be preserved where possible and landscaping will emphasize the incorporation of native species.
- Fence installation surrounding the Port of Entry lands.
- Noise barriers to be installed in locations identified through the DRIC study.
- Port of Entry lighting will minimize impacts to adjacent residents and wildlife.
- Stormwater management facilities will be constructed within the project footprint to ensure adequate site drainage.



The community will continue to have consultation opportunities with the P3 partner during design and construction phases of the Gordie Howe International Bridge project.

Construction Zone Safety

- Construction is underway, and truck drivers, motorists, pedestrians and cyclist alike need to be prepared.
- Construction zones are dangerous places whether workers are present or not.
- Any entry into the construction site is considered trespassing.
- For your safety and the safety of the workers, please do not enter from adjacent sidewalks, parks or neighbourhoods.



Preparing the Canadian Site



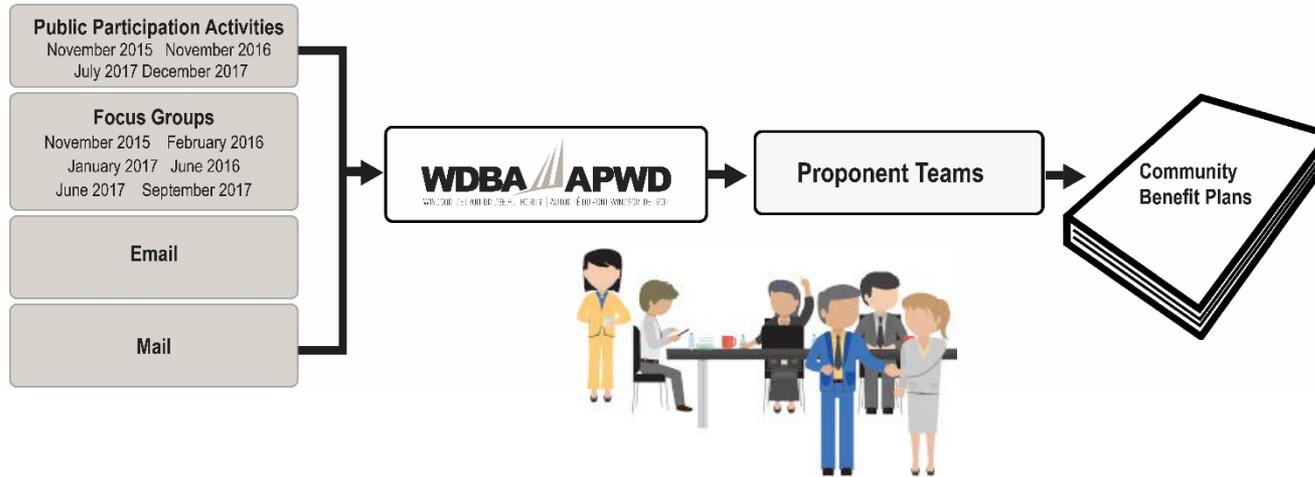
Gordie Howe International Bridge Project

Community Benefits

Canadian and US consultation suggests the following regional priorities:



Community Benefits



- Proponents will develop and submit 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



Gordie Howe International Bridge Project

WDBA in the Community



Gordie Howe International Bridge Project

Engaging Youth



WDBA APWD
WINDSOR-DETROIT BRIDGE AUTHORITY | AUTORITÉ DU PONT WINDSOR-DETROIT



**Show Us Your Bridge
2018
Art Challenge**

www.GordieHoweInternationalBridge.com

Gordie Howe International Bridge Project

Preparing for Jobs



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, Mechanical Technician - CAD/CAM</i>	Highway Electrician	Milwright <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, Welding Techniques</i>
Construction Site Logistics Planner <i>Civil Engineering Technology</i>	Highway Maintenance Technician <i>Construction Engineering Technician</i>	Painter	Fleet Mechanic <i>Mobile Power Technician/ Apprenticeship</i>	Pipe Welder <i>Welding Techniques</i>
Estimator <i>Civil Engineering Technology, Construction Engineering Technician</i>	Sign Crew Member <i>Construction Engineering Technician</i>	Electrical Estimator <i>Electrical Techniques</i>	Electrician <i>Electrical Techniques</i>	Mechanic <i>Power Engineering Technology - Mechanical</i>
Surveyor <i>Civil Engineering Technology, Mechanical Technician - CAD/CAM</i>	Heavy Equipment Operator <i>Construction Engineering Technician</i>	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/ Apprenticeship</i>
		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}

#GORDIEHOWEBRIDGE

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



Preparing for Jobs: Construction and Beyond

- Construction jobs will last several years
- Operations jobs will be ongoing and include roles such as landscaping, security, maintenance, etc.
- Both phases will provide opportunities for businesses that supply goods, materials and services for the project

Workforce preparation:

- Security clearances
- Trade certification
- Health and safety awareness/training
- Past experience in similar roles
- References of past jobs/contacts



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