

# Gordie Howe International Bridge



Quarterly Public Meeting - Windsor  
March 26, 2019

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

Gordie Howe International Bridge Project

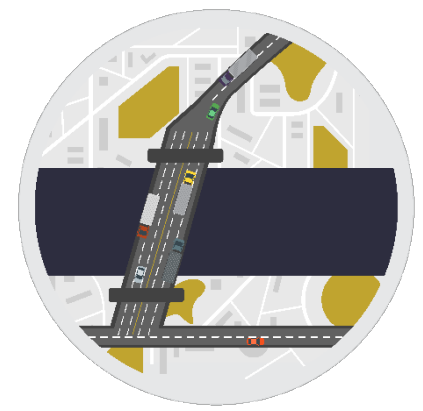
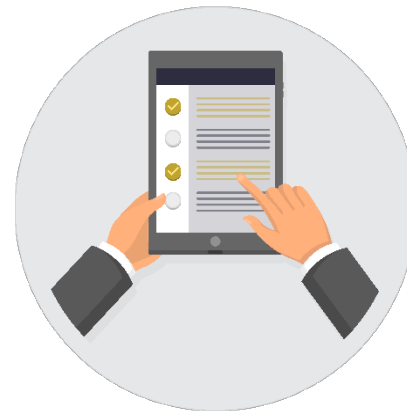
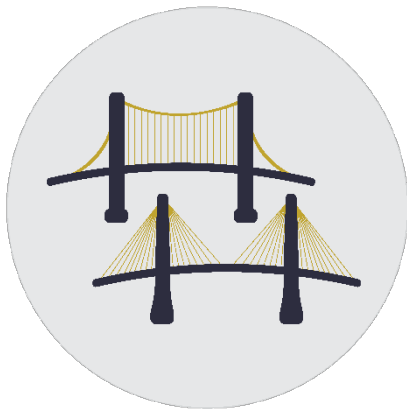
# What is the need?

Redundancy

Capacity

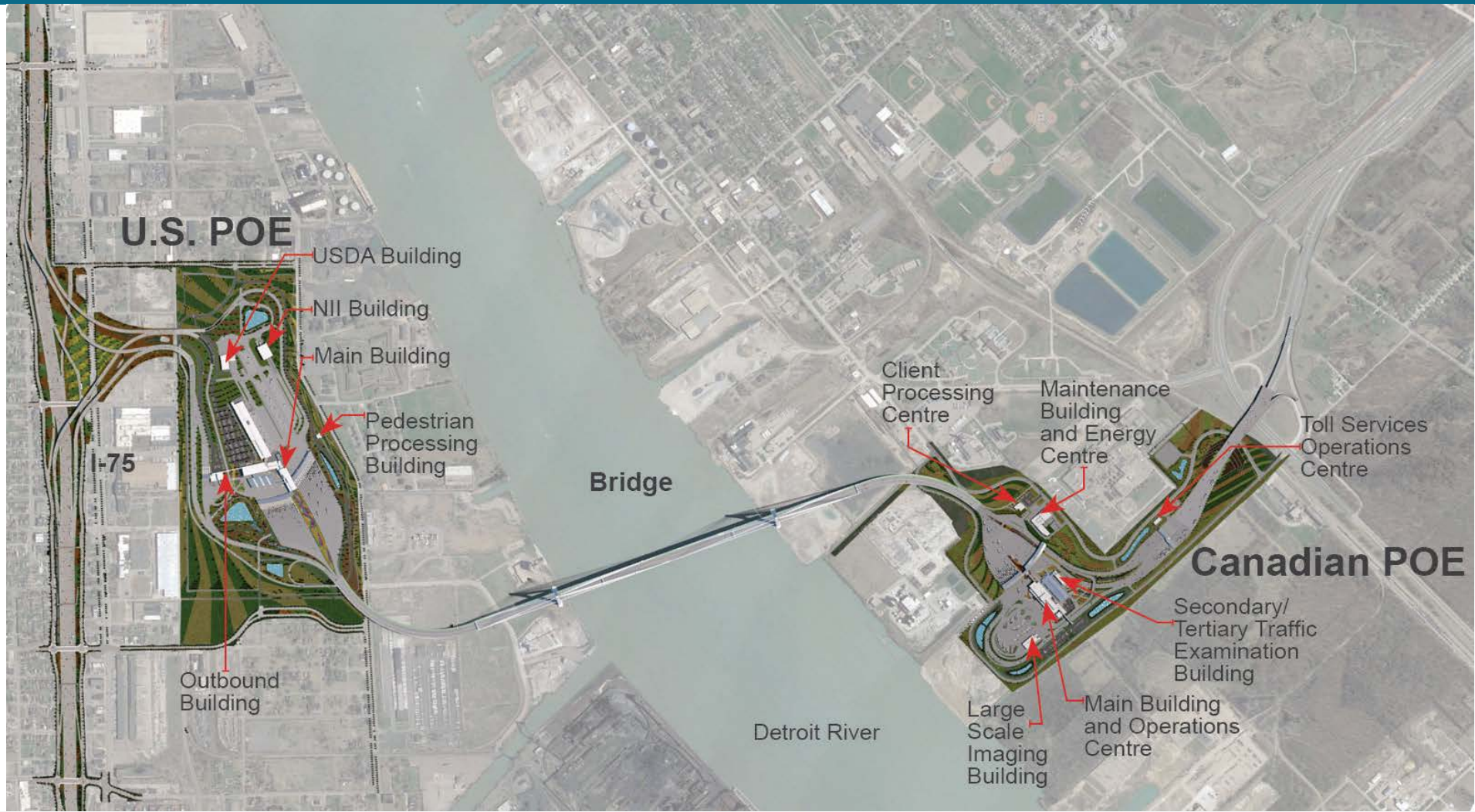
Border processing capabilities

System connectivity



Gordie Howe International Bridge Project

# Project Components



## Gordie Howe International Bridge Project

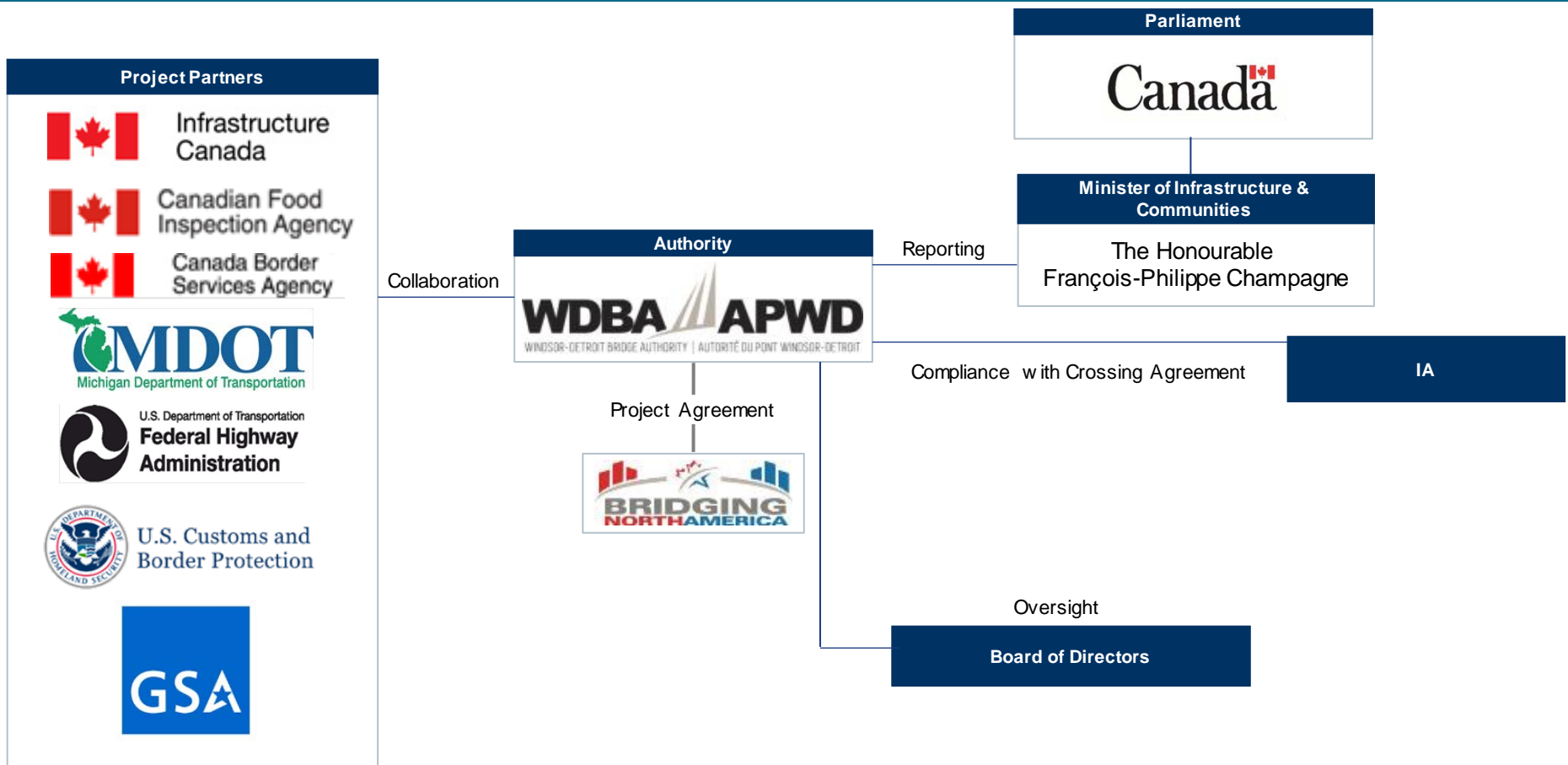
# Multi-Use Path



Multi-use path  
will be toll-free

Gordie Howe International Bridge Project

# WDBA's Organizational Structure



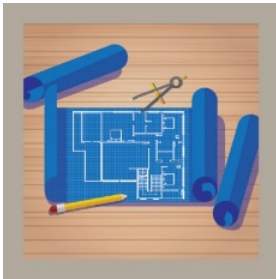
## Gordie Howe International Bridge Project

# Fixed Price Contract

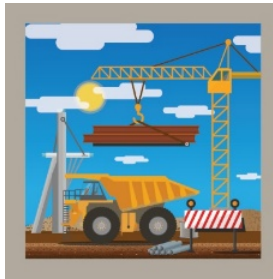
The fixed contract value for the Gordie Howe International Bridge project is \$5.7 billion (nominal)



**Design**



**Build**



**Finance**



\$3.8 billion

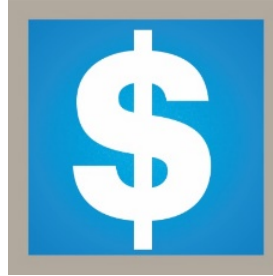
**Operate**



**Maintain**



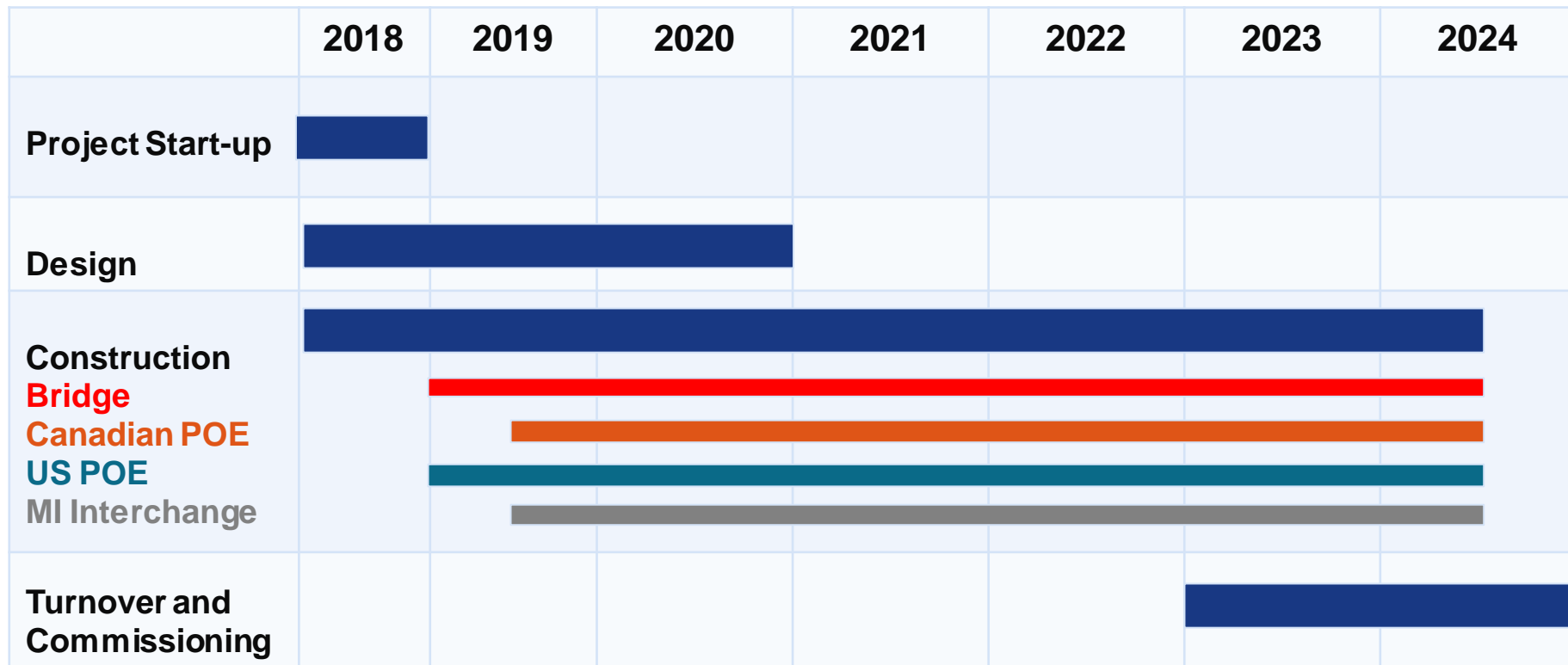
**Finance**



\$1.9 billion

Gordie Howe International Bridge Project

# Construction Schedule



- Estimated construction duration 74 months
- 70% of construction hours will occur between 2021 – 2023
- It is anticipated that the Gordie Howe International Bridge open to traffic by the end of 2024

# Canadian Preparatory Works Update

- Over **\$200 million** has been invested to date in readying the Canadian lands required for construction
- **3 km** of new access road for adjacent businesses and properties completed
- Over **1 million** tonnes of fill has been placed to grade and sculpt the site
- More than **27 km** of electric cabling has been relocated
- Over **902 tonnes** of waste material has been collected
- **Three** transmission towers have been constructed as part of hydro transmission and distribution activities
- Construction of **two** new stormwater management ponds and rehabilitation of the Broadway Drain is complete
- Over **6 km** of gas lines have been installed
- More than **4.6 km** of exclusion fence has been installed



Gordie Howe International Bridge Project



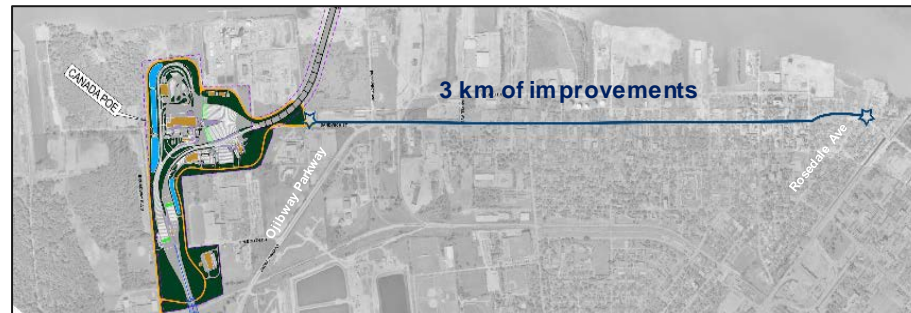
# Rt. Hon. Herb Gray Parkway Completion



## Gordie Howe International Bridge Project























# Sandwich Street Improvements

- Approximately 3 km of Sandwich St. from the intersection of Sandwich St and Ojibway Pkwy to Detroit Street will see infrastructure improvements
- Estimated to be a \$12 million investment
- Construction is anticipated to begin in 2021 subject to consultation
- Improvements will align with Sandwich Town Heritage plans and guidelines
- Sandwich will be fully re-paved in accordance with municipal standards
- Attractive streetscaping will be considered.
- All sidewalks within the corridor will be replaced and will meet accessibility standards.
- Bump outs will be incorporated at some intersections to enhance pedestrian safety.



# Construction Look Ahead

## Upcoming Activities in Spring 2019

-   Design continues: Advancing design from 30% to construction ready
-   Survey work continues: Crews review property lines, site details, verify conditions
-   Utility surveys and relocations
-   Site clearing & pre-construction activities
-   Fence installation: chain-link and construction fencing to be installed at CDN and US POEs
-   Establish field offices and staging areas: Install fencing and office trailers
-   Test piles for bridge foundation: Integrity and quality assurance of pile and soil conditions
-   Seawall investigation activities
-  I-75 Interchange early works
-  US POE road closures
-  Sewer and siphon work near US POE: Rehabilitating existing lines near and within the POE and I-75 Interchange
-  Fill placement at Phase 1 US POE and installation of wick drains
-   Construction monitoring and mitigation

# Canada & US Test Shaft Work

Construction of test piles for the main bridge are anticipated to begin in 2019 on both sides of the border. This work will provide a test program to inform and finalize the design of the tower foundations.

- Installation of a 'full-size' (three metre) test shaft that will mimic the future work to be performed on the permanent tower foundation drilled shafts.
- Once installed and concrete has cured to the specified strength, testing of the shaft will commence.
- The test is comprised of a system of hydraulic jacks sitting on the base of the drilled shaft that is embedded six metres into bedrock.
- Once the system is pressurized, the intent is to measure the force required to mobilize the shaft upward.
- Measurements will then be correlated with the load resistance to be incorporated into the final design.



# Mitigation Elements: What to Expect

In accordance with commitments made during the Detroit River International Crossing (DRIC) study, numerous mitigation elements were identified for inclusion during construction in the US and/or Canada. Some include:

- 100- ft landscaped buffer to be incorporated in the lands surrounding the perimeter fencing of the US Port of Entry.
- Limit noisy activities to daytime hours and in accordance with municipal bylaws.
- Noise barriers to be installed in locations identified US EIS.
- Ports of Entry and bridge lighting will minimize impacts to adjacent residents and wildlife.
- Stormwater management facilities will be constructed within the project footprint to ensure adequate site drainage.
- Sweep or flush entrances to construction zones to minimize dust.
- Ensure alternate routes are available during traffic disruptions.
- Provide regular updates to nearby residents and businesses on activities that will affect them.



**The community will continue to have consultation opportunities Bridging North America during design and construction phases of the Gordie Howe International Bridge project.**

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.



# 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**

# Building Elegance Through Aesthetics

The following project goals define the desired outcome to be achieved through the project aesthetic design:

- An impressive and inspiring new gateway symbol for Canada and United States
- A distinctive design that reinforces the brand and responds to its unique Windsor/Detroit context
- A bridge design that achieves a high level of aesthetic quality, at a distance and up close, by day and by night
- Port of Entry architecture and landscape design that showcases functionality, design excellence, sustainability and barrier-free accessibility



Gordie Howe International Bridge Project



# Community Benefits



Gordie Howe International Bridge Project

# Community Benefits: Plan Components

## WORKFORCE DEVELOPMENT & PARTICIPATION STRATEGY



Geared toward engaging businesses and providing employment opportunities. The strategy to be finalized and implemented will centre on workforce, training and pre-apprenticeships/apprenticeships.

This strategy includes these subsections:

- **at least \$250 million of the total value of the work during the design-build phase in Canada will be performed by, contracted to, or supplied by the workers or contractors located in the City of Windsor or within 100 kilometres of the City of Windsor**
- **engaging and employing Canadian Indigenous Peoples in and around the City of Windsor, Essex County and Walpole Island, Ontario and contracting their businesses**
- **engaging, employing and contracting Detroit residents and Detroit-based and Detroit-headquartered businesses.**

The Disadvantaged Business Enterprise (DBE) goal established for this project is 2.15% of the cost of the construction and engineering work needed to complete the Michigan Interchange and the portion of the Bridge that is located in Michigan.

## NEIGHBOURHOOD INFRASTRUCTURE STRATEGY



A \$20 million community infrastructure investment focused on priorities identified through previous community benefit consultation with communities, businesses, First Nations and other stakeholders in Windsor and Detroit.

The Neighbourhood Infrastructure Strategy will include initiatives that are consistent with the Crossing Agreement and the key regional priorities identified:

- **community partnerships**
- **lessening the effects of construction and operation issues**
- **community safety and connections**
- **economic benefits**
- **aesthetics and landscaping**

Taking feedback previously received from the community into account, further consultation will occur to select the initiatives that will be included in the final Neighbourhood Infrastructure Strategy.

# Community Benefits Initiatives Evaluation

TIME →  
STEPS IN EVALUATION PROCESS →

**NUMBER OF ALTERNATIVES**

**AMOUNT OF ANALYSIS**

Collect input on community benefits initiatives.

Public Participation Activities  
Focus Groups

2015

Continue collecting input on community benefits initiatives and share with proponent teams developing proposals.

Community-to-Business  
Business-to-Business  
Focus groups  
Public Participation Activities  
Stakeholder meetings  
Open submission period

2016 - 2017

Three Proponent teams refine and assess proposed initiatives for inclusion in community benefits RFP submission.

Proponents RFP submission evaluation begins in May 2018.

2018

Community Benefits Plan initiatives issued at Financial Close for further consultation. Six-month consultation period with community and relevant authorities begins.

September 2018

Finalized Community Benefits Plan to be presented to the public.

Early 2019

Gordie Howe International Bridge Project

# Neighbourhood Infrastructure Survey Results

**40+** Meetings held on both sides of border

Met with **700+** stakeholders

**400+** Surveys received

As a result of Neighbourhood Infrastructure Strategy consultation a number of priorities have been identified for Windsor and Detroit communities. Themes emerging from the feedback received include:

## CANADA

- Trail System Connections
- Economic Development
- Sandwich Street Beautification
- Support for Community Programming
- Recognition of Area History
- Recognition for Environmentally Sensitive Areas Adjacent to Port of Entry

## US

- Trail System Connections
- Economic Development
- Home Repairs Program
- Support for Community Programming
- Recognition of Area History
- Environment Conditions Relating to Tree Cover

Gordie Howe International Bridge Project

# Bridging North America's Approach to Workforce Development & Labour

- Construction and operation of the bridge will bring thousands of jobs to the region
- BNA anticipates the creation of 2,500 direct jobs during construction
- BNA is currently meeting with national and provincial labour associations to review workforce requirements during construction and operation phases
- Peak years for construction: 2021 – 2023
- Work during that three-year period will account for 70% of total man-hours on the project

# Workforce Development Initiatives

- Employment Opportunities
  - Require subcontractors hire atleast 20% new hires from local region
  - Participate in job fairs/employment sessions
  - Identify and select pre-apprentices and apprentices
  - Enhance the community/employment groups awareness of the project and skills required
- Business Opportunities
  - Host Business-to-Business info sessions
  - Provide two-way communication with local subcontractors
  - Provide online system to invite local businesses to submit information on capabilities and capacity
  - Foster growth of small companies by purchasing goods, supplies and services under \$25,000

# Workforce Development Initiatives

- Training/Education Opportunities
  - Partner with local educational institutions to identify research opportunities
  - Participate in speaker series and offer mentorship
  - Partner with apprenticeship organizations and local unions
  - Provide ESL and job training sessions
  - Partner with educational institutions to provide co-op/work placements
- Indigenous Peoples Opportunities
  - Explore business partnership opportunities
  - Implement First Nations policy
  - Commission local artists to create community/art murals
  - Partner with training organizations to arrange onsite training
  - Increase awareness of skilled trades careers and support apprenticeship programs

# Next Steps: Community Benefits

1. Continue analyzing data and completing additional consultation efforts as needed
2. Complete draft Community Benefits Plan
3. Bridging North America to submit draft plan to WDBA for approval
4. Finalize the Community Benefits Plan and share the plan with the public in April 2019.
5. Implement the plan in accordance with timelines identified

A local Community Group composed of stakeholders will be formed to work as informal partners in the implementation of the Community Benefits Plan. These stakeholders will represent:

- Windsor-Essex County
- Delray community
- Greater Detroit municipalities
- Bridge users
- Educational institutions
- Economic Development organizations
- Canadian Indigenous Peoples

WDBA will issue open call for applicants in spring 2019

16 participants for the Local Community Group will be identified by WDBA with support from Michigan

Local Community Group will meet quarterly



# Bridging Our Workforce



Gordie Howe International Bridge Project

# Community Offices

## Sandwich Community Office



3201 Sandwich St.,  
Windsor, Ontario  
N9C 1A8

Opening Soon

## Southwest Detroit Community Office



7744 W Vernor Hwy,  
Detroit, Michigan  
48209

See hours of operation on our website

Gordie Howe International Bridge Project

# FOLLOW US ON



@GordieHoweBrg



@GordieHoweBridge



@GordieHoweBrg



@WDBA-APWD



YouTube.com/GordieHoweBridge

**GordieHoweInternationalBridge.com**

**1-844-322-1773**