

DETROIT RIVER INTERNATIONAL CROSSING STUDY ENVIRONMENTAL ASSESSMENT

MAG Meeting

April 11th, 2006

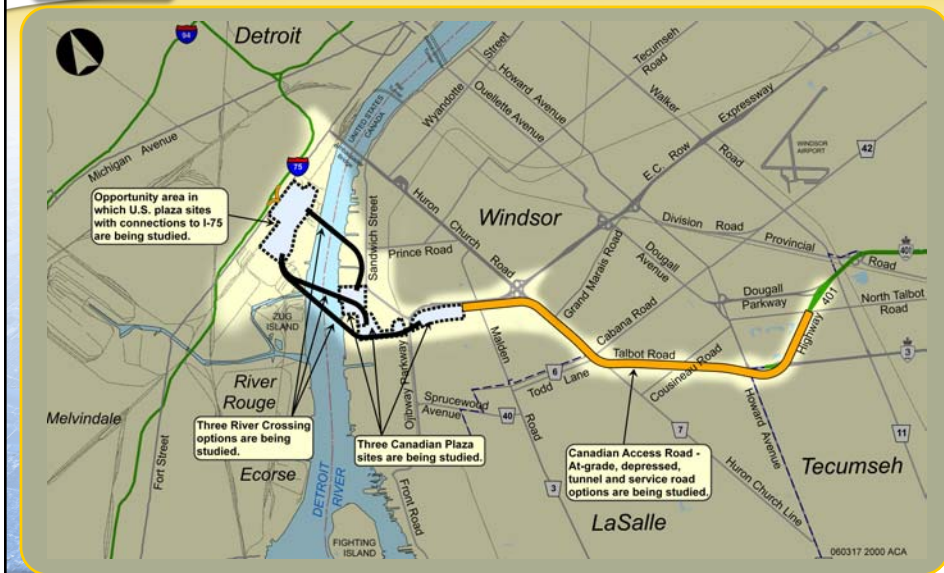
Agenda

1. Introduction
2. Transportation Context
3. Summary of Practical Alternatives
 - a. Plazas and Crossings
 - b. Routes
4. PIOH#3 Consultation Summary
5. Next Steps

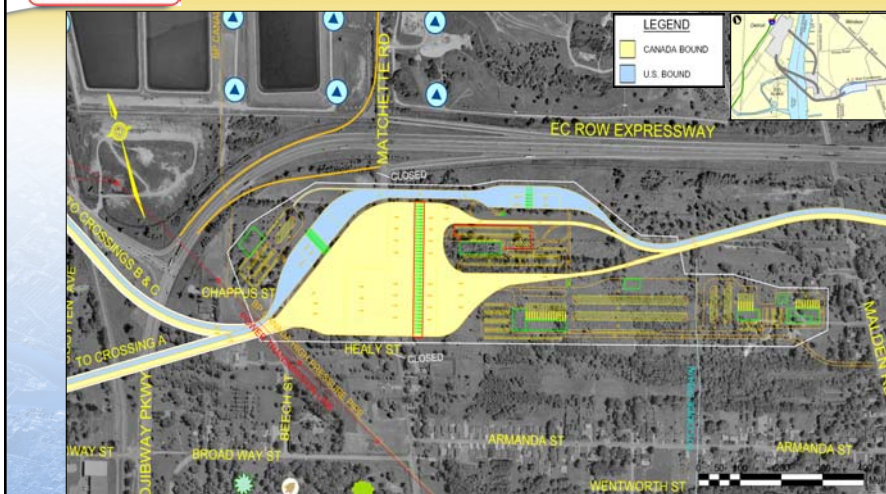
Study Area Features, Opportunities & Constraints	April '05	Initial Public Outreach
Initial Set of Crossing Alternatives, Plaza Locations & Connecting Routes in Canada and the U.S.	June '05	PIOH1
Area of Continued Analysis	December '05	PIOH2
Specific Crossing, Plaza and Access Road Options	March '06	PIOH3
Results of Social, Economic, Environmental and Engineering Assessments	December '06	PIOH4
Preferred Crossing Location, Plaza Locations & Connecting Routes in Canada and the U.S.	Spring '07	PIOH5
Finalize Engineering and Mitigation Measures	Summer '07	PIOH6
Document Study and Submit for Approvals	End of '07	Public Review



Crossing, Plaza & Route Alternatives



Inspection Plaza Alternative A



Area: Approx. 35 ha (85 acres)

Primary Inspection Lanes: 20 Passenger; 19 Commercial.

Other Major Functions: Secondary Inspection (Passenger/Commercial); Vehicle and Inspection System (VACIS); Agriculture Inspection; Toll Facilities.

Can Connect with: Crossings A, B & C

Land Uses Directly Affected: Residential; Industrial; Commercial.

Displacements: 66 Residential Existing; 19 Residential Under Construction

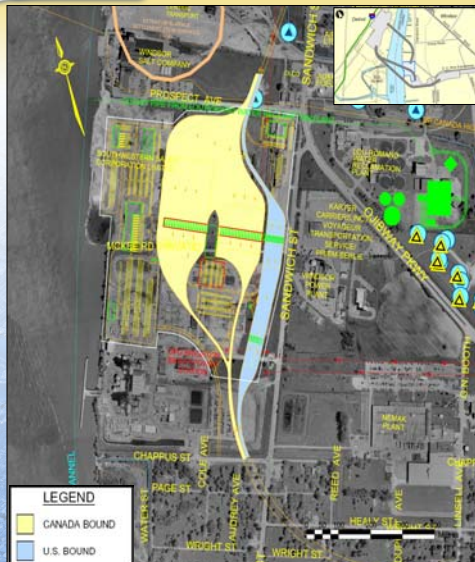
Utility Easements/ROWS: Power Transmission Line; BP Canada High Pressure Pipe

Realignments/Closures: Chappuis St.; Beech Street; Healy St.; Matchette Rd.



Area: Approx. 35 ha (85 acres)
Primary Inspection Lanes: 20 Passenger; 19 Commercial.
Other Major Functions: Secondary Inspection (Pass/Comm); Supplementary (VACIS); Agriculture Inspection; Toll Facilities.
Can Connect with: Crossings B & C

Land Uses Directly Affected: Brighton Beach; OPG Parking; Transformer Station; Nemak; Ojibway Natural Area.
Displacements: 12 Residential; 1 Manufacturing; 1 Utilities
Existing Easements/ROWS: Power Transmission Line
Realignments/Closures: Water St; Scott Ave; Cole Ave; Audrey Ave; Sandwich St; Chappus St.; Page St.; Wright St.; Broadway St.; Healy St.; Reed Ave.;
 Dupont St



- Area:** Approx. 35 ha (85 acres)
- Primary Inspection Lanes:** 20 Passenger; 19 Commercial.
- Other Major Functions:** Secondary Inspection(Pass/Comm); Supplementary Vehicle Inspection (VACIS); Agriculture Inspection; Toll Facilities.
- Land Uses Directly Affected:** Hydro One Transformer Station; Aggregate Operation; Windsor Salt; OPG Parking
- Displacements:** Hydro One Transformer Station, Aggregate Operation; OPG Parking
- Easements/ROWS Relocation:** Power Transmission Lines
- Realignments/Closures:** Prospect Ave.; McKee St.; Euclid Ave.



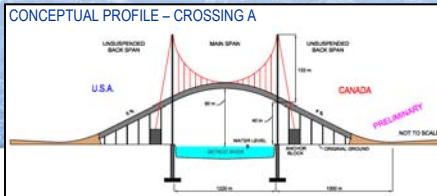
Crossing A from Plaza A



SUSPENSION BRIDGE



CONCEPTUAL PROFILE – CROSSING A

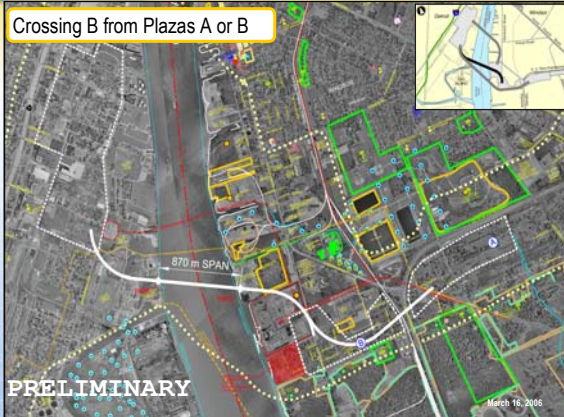


Connecting to
PLAZA A

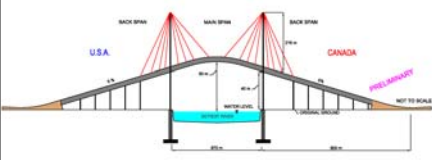
Main Span Length:	1220 m
Number of Lanes:	6
Distance to Touchdown:	1000 m
Maximum Height over River:	50 m
Approx Height over River at Shoreline:	40 m
Approx. Height of Towers:	160 m
Distance from River to Plaza:	1740 m

Crossing Alternative B

Crossing B from Plazas A or B



CONCEPTUAL PROFILE – CROSSING B AS CABLE-STAYED BRIDGE



SUSPENSION BRIDGE



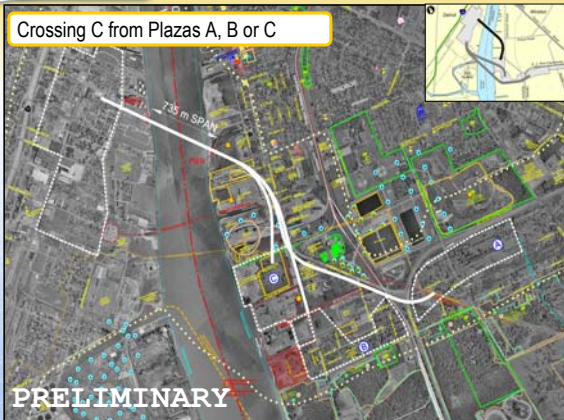
CABLE-STAYED BRIDGE



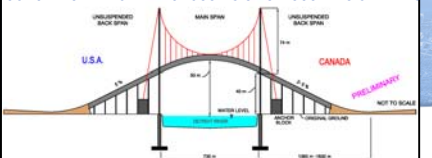
	Connecting to PLAZA A	Connecting to PLAZA B
Main Span Length:	870 m	870 m
Number of Lanes:	6	6
Distance to Touchdown:	1120 m	975 m
Maximum Height over River:	50 m	50 m
Height over River at Shoreline:	40 m	40 m
Height of Towers:	125–260 m	125–260 m
Distance from River to Plaza :	2120 m	760 m

Crossing Alternative C

Crossing C from Plazas A, B or C



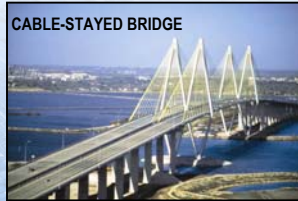
CONCEPTUAL PROFILE – CROSSING C AS A SUSPENSION BRIDGE



SUSPENSION BRIDGE

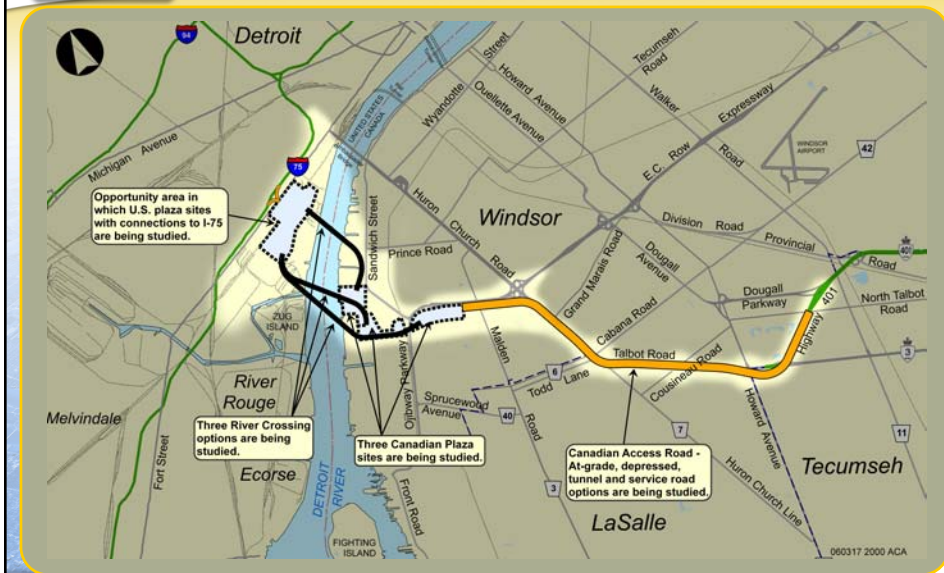


CABLE-STAYED BRIDGE



	Connecting to PLAZA A	Connecting to PLAZA B	Connecting to PLAZA C
Main Span Length:	735 m	735 m	735 m
Number of Lanes:	6	6	6
Distance to Touchdown:	1830 m	1920 m	1360 m
Maximum Height over River:	50 m	50 m	50 m
Height over River at Shoreline:	45 m (CAN)	45 m (CAN)	45 m (CAN)
Height of Towers:	115 – 225 m	115 – 225 m	115 – 225 m
Distance from River to Plaza:	2935 m	1955 m	1275 m

Crossing, Plaza & Route Alternatives



Access Route Alternatives



1a

One-way service roads on either side of 6-lane freeway at grade.



1b

One-way service roads either side of 6-lane freeway depressed.



2a

Six-lane freeway at grade, along side Huron Church/Highway 3.



2b

Six-lane freeway depressed, parallel to Huron Church/Highway 3.



3

Cut and cover tunnel below rebuilt Huron Church Road/Highway 3 Corridor.

Public Information Open House Sessions:

Tuesday March 28, 2006

4:00 p.m. to 8:00 p.m.

Ciociaro Club

Thursday March 30, 2006

4:00 p.m. to 8:00 p.m.

Novelletto Rosati Complex

- Notices placed in local newspapers:

Tuesday March 14th

Windsor Star*
Amherstburg Echo
Kingsville Reporter
Harrow News

Wednesday March 15th

Essex Free Press
LaSalle Post
Leamington Post
Le Rempart

Saturday March 18th

Windsor Star

- Notices sent to those on the project contact lists (1,200 ± individuals), as well as residents and businesses within 500m of the access road and plaza alternatives (7,500 ± addresses in the area of the ACA).
- Notices posted on electronic bulletin boards, in addition to public service announcements.
- Information is posted on the project website at www.partnershipborderstudy.com.

Public Input Received at PIOH #3 Sessions

Common Themes - Plazas and Crossings

- Locate a crossing outside of Windsor; Amherstburg, LaSalle, Fighting Island; eastern areas
- Locate a crossing as far south from Sandwich as possible
- Minimize air and noise impacts
- Preserve natural areas (Ojibway, Black Oak)
- Keep plazas away from residential areas

Common Themes - Routes

- Illustrative Alternatives Evaluation Process; Consideration of Other Alternatives; Travel Demand;
- Consider Tunnel Options;
- Impacts of Alternatives to the Area Communities; Protecting Community Features;
- Safety; Emergency Access;
- Air Quality and Noise Impacts.

What's Next? - Additional Analysis

Acoustical and Vibration

Consult with Agencies and Stakeholders
Conduct Practical Routes Noise Assessment
Develop Noise Mitigation Strategies

Air Quality

Consult with Agencies and Stakeholders
Conduct Practical Routes Air Quality Assessment
Present Results of Air Quality Assessment

Natural Heritage

Field Surveys – i.e. fisheries, migratory birds, and vegetation
Conduct Effects Assessment
Consult with Agencies and Stakeholders
Develop Mitigation Strategies

Social

Individual Household Interviews
Consultation with Residential Community Associations/Groups

What's Next? – Additional Analysis

Archaeological

- Prepare Stage One Documentary Survey
- Consult with Agencies and Stakeholders
- Conduct Stage Two Field Surveys at specific locations
- Develop Mitigation Strategies

Built Heritage

- Conduct Built Heritage Inventory
- Consult with Agencies and Stakeholders
- Develop Mitigation Strategies

Waste and Waste Management

- Field Surveys – i.e. sites
- Consult with Agencies and Stakeholders
- Develop Waste Management Strategies

Economic

- Individual Business Interviews
- Consultation with Business Associations/Groups

What's Next? - Additional Analysis

Technical

- Conduct Geotechnical Surveys
- Develop Preliminary Geometric Design
- Consult with Municipalities, Agencies, and Stakeholders
- Develop Geometric Design Mitigation Strategies

Factors	Performance Measures
Changes to Air Quality	<ul style="list-style-type: none"> • Effect on concentration of particulate matter • Effect on concentration of gaseous pollutants
Protection of Community and Neighborhood Characteristics	<ul style="list-style-type: none"> • Displacement of Residences and Social Features • Direct Impacts on Existing Businesses • Disruption to Residents and Social Features • Noise and Vibration Impacts • Community and Neighbourhood Impacts • Traffic Impacts • Municipal Impacts • Displacement of Businesses • Disruption of Businesses • Other Effects on Businesses
Maintain Consistency with Existing and Planned Land Use	<ul style="list-style-type: none"> • Impacts to Land Use (existing and planned) • Impacts to Development Plans • Impacts to Contaminated Sites/Disposal Sites
Protect Cultural Resources	<ul style="list-style-type: none"> • Impacts to Built Heritage Features • Impacts to Cultural Landscape Units • Impacts to Parklands • Impact to Archaeological Features
Protect the Natural Environment	<ul style="list-style-type: none"> • Impacts to Ecological Landscapes • Communities/Ecosystems • Population/Species • Surface Water/Groundwater Recharge Areas • Other Natural Resources
Improve Regional Mobility	<ul style="list-style-type: none"> • Assessment of Highway Network Effectiveness • Assessment of Continuous/ongoing River Crossing Capacity • Operational Considerations of Crossing System (River Crossing and Plaza)
Minimize Cost	<ul style="list-style-type: none"> • Primary Construction Cost • Assessment of Constructability

Consultation with Municipalities, Agencies, First Nations Interest Groups and U.S. Project Team	Ongoing
Obtain Comments on Crossing, Plaza and Access Road Options	March - April '06
PIOH3 Meeting at Ciociaro Club	March 28
PIOH3 Meeting at Novelletto Rosati Complex	March 30
Workshop at Ciociaro Club <i>(Please Register to Attend)</i>	April 11
Workshop at Novelletto Rosati Complex <i>(Please Register to Attend)</i>	April 12
Assess Options	Spring/Summer '06
Meetings to be scheduled for May, June and August	
Other meetings upon request	
Present Results of Assessment	Nov./Dec. '06
PIOH 4 and Workshops	To be Scheduled
Present Selection of Technically and Environmentally Preferred Alternative	Spring '07
PIOH5 and Workshops	