



Outline of Presentation

- Review of evaluation leading to the area of continued analysis
- Update on development of alternatives for:
 - River Crossing;
 - Inspection Plaza; and
 - Access Road.
- Next Steps









DETROIT RIVER INTERNATIONAL CROSSING ENVIRONMENTAL ASSESSMENT





Purpose of the DRIC Study

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.

In order to meet the purpose, this study must address the following regional transportation and mobility needs:

- Provide new border crossing capacity to meet increased long-term travel demand;
- -Improve system connectivity to enhance the continuous flow of people and goods;
- -Improve operations and processing capabilities at the border; and
- -Provide reasonable and secure crossing options (i.e. network redundancy)

Given the importance of this trade corridor to the local, regional and national economies and recognizing the negative effects associated with poor traffic operations and congestion, the partnering governments must take all reasonable steps to reduce the likelihood of disruption to transportation service in this corridor.





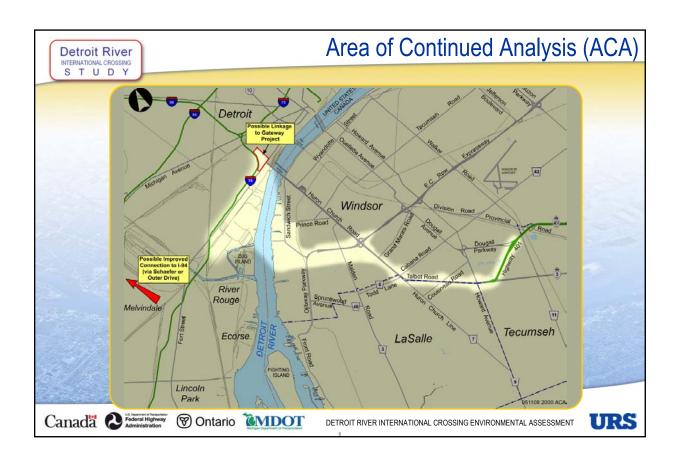


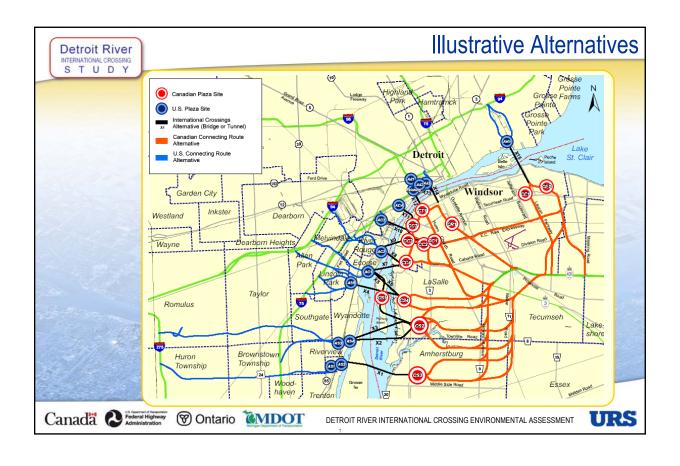


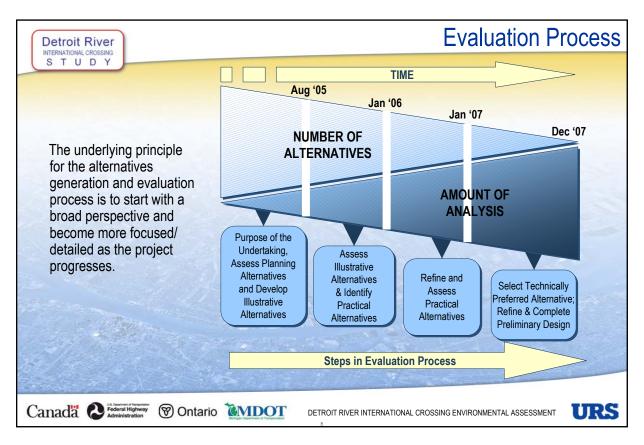




| Detroit River | k | (ey Milestones |
|--|--------------------------------|----------------------------|
| STUDY | | |
| Study Area Features, Opportunities & Constraints | April '05 | Initial Public Outreach |
| Initial Set of Crossing Alternatives, Plaza Locations & Connecting Routes in Canada and 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 |
| | y | |
| Canada O rederal Highway Ontario MDOT DETROIT RIVER IN | TERNATIONAL CROSSING ENVIRONMI | ENTAL ASSESSMENT URS |









Evaluation Factors

- **Changes to Air Quality**
- Protection of Community and Neighbourhood Characteristics (includes assessment of residential and business property impacts, impacts to noise levels, access and community features)
- Consistency with Existing & Planned Land Use
- Protection of Cultural Resources (includes parks, historic sites and areas of archaeological significance)
- Protection of Natural Environment (includes plant and animal species and habitat features)
- Improve Regional Mobility
- Minimize Cost (includes assessment of constructability issues).









DETROIT RIVER INTERNATIONAL CROSSING ENVIRONMENTAL ASSESSMENT





Factor Weighting Results

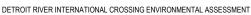
| Factor | Project Team | | Pul | olic | CCG | |
|---|--------------|------------|--|------------|---|------------|
| Factor | Rating | Weight (%) | Avg. Rating* (reflects 60 responses received) | Weight (%) | Avg. Rating (reflects 15 responses received) | Weight (%) |
| Changes in Air Quality | 70 | 12.39 | 85 | 17.31 | 91 | 17.30 |
| Protection of Community & Neighbourhood Characteristics | 90 | 15.93 | 80 | 15.49 | 73 | 13.88 |
| Maintain Consistency with Existing & Planned Land Use | 70 | 12.39 | 62 | 12.89 | 72 | 13.69 |
| Protection of Cultural Resources | 70 | 12.39 | 66 | 13.14 | 69 | 13.12 |
| Protection of Natural Environment | 90 | 15.93 | 78 | 16.34 | 90 | 17.11 |
| Improve Regional Mobility | 100 | 17.70 | 76 | 15.28 | 78 | 14.83 |
| Minimize Cost | 75 | 13.27 | 47 | 9.54 | 53 | 10.07 |
| | | 100 | | 100 | | 100 |





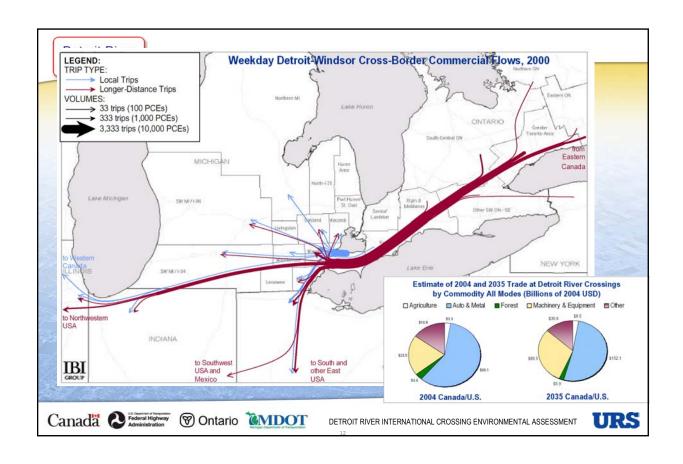








| | It River | | M | obility N | leeds | - Passe | enger T | raffic |
|--------|--|---------------|--------|-----------|---------------------------|------------------|------------------|--------|
| | U D Y | | | | | | | |
| | | | | Cros | ssing | | | |
| | Trip Type | Ambas Brid | | | Detroit-Windsor Tunnel | | t River sings | |
| | | Volum | e % | Volum | e % | Volum | e % | |
| | LOCAL to LOCAL | 13,450 | 71 | 15,000 | 88 | 28,450 | 79 | |
| | LOCAL (Southeast Michigan) to/from LONG-DISTANCE (beyond Windsor-Essex) | 1,850 | 10 | 900 | 5 | 2,700 | 8 | |
| | LOCAL (Windsor-Essex) LONG-DISTANCE (beyond Southeast Michigan) | 1,700 | 9 | 900 | 5 | 2,600 | 7 | |
| | LONG-DISTANCE to LONG- DISTANCE | 1,800 | 10 | 150 | 0.9 | 2,000 | 6 | |
| | OTHER | 70 | 0.4 | 50 | 0.3 | 120 | 0.3 | |
| 3.17 | TOTAL TRIPS | 18,850 | 100 | 17,000 | 60 | 38,850 | 100 | |
| | | 745 J | | | 7 | | | |
| Canada | St. Ontarior of Inspectation September 11 Springer 1 S | ario MD | OT DET | | ATIONAL CROSSII | NG ENVIRONMENTAL | ASSESSMENT | URS |





Mobility Needs - Commercial Traffic

| | | Crossing | | | | | |
|---|----------------------|----------|------|-----------------------|--------|------------------|--|
| Trip Type | Ambassador Bridge | | | oit-Windsor Funnel | | t River sings | |
| | Volume | e % | Volu | ume % | Volum | ne % | |
| LOCAL to LOCAL | 2,100 | 17 | 350 | 59 | 2,450 | 19 | |
| LOCAL (Southeast Michigan) to/from LONG-DISTANCE (beyond Windsor-Essex) | 1,950 | 16 | 100 | 19 | 2,100 | 16 | |
| LOCAL (Windsor-Essex) to/from LONG-DISTANCE (beyond Southeast Michigan) | 1,750 | 14 | 100 | 15 | 1,850 | 14 | |
| LONG-DISTANCE to LONG- DISTANCE | 6,450 | 52 | 50 | 6 | 6,500 | 50 | |
| OTHER | 130 | 1.0 | 5 | 0.8 | 130 | 1.0 | |
| TOTAL TRIPS | 12,400 | 100 | 600 | 100 | 13,000 | 100 | |









DETROIT RIVER INTERNATIONAL CROSSING ENVIRONMENTAL ASSESSMENT





Evaluation Results

South Alternatives

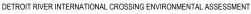
- Underutilized new crossing
 - Existing crossings and approach roads remain congested in the long-term
- Impacts on U.S. side
- Not a practical long-term solution















Evaluation Results

East Alternatives

- Underutilized new crossing
- Existing crossings and approach roads remain congested in the long-term
- North of E.C. Row
 - · Impacts to community cohesion and character
 - · Inconsistency with existing/future land use
- · Impacts on U.S. side

Not a practical long-term solution









DETROIT RIVER INTERNATIONAL CROSSING ENVIRONMENTAL ASSESSMENT





Evaluation Results

Rail Corridor

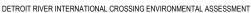
- As a two-lane truckway to refurbished rail tunnels:
 - inadequate capacity to meet the long term needs of the region
- As a freeway with a new downtown crossing:
 - · unacceptably high impacts to central and southern Windsor
 - not consistent with the City's plans and land uses.
- Not a practical long-term solution













Evaluation Results

Twinned Ambassador Bridge

- Impacts on community cohesion and character (including historical/cultural features)
 - · In the area of the Plaza
 - · On Huron Church North of E.C. Row
- · Construction staging risks and complexities
- · Limited ability to provide continuous /ongoing river crossing capacity
- Not a practical long-term solution
- U.S. customs plaza of the Ambassador Bridge included in the area of continued analysis

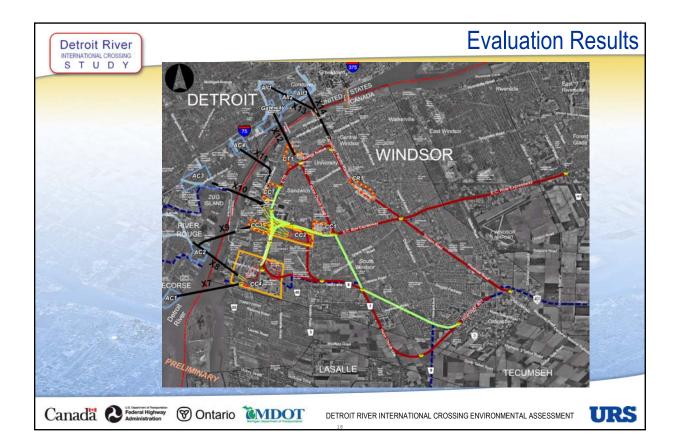






DETROIT RIVER INTERNATIONAL CROSSING ENVIRONMENTAL ASSESSMENT







Detroit River

Highway 3 By-Pass Analysis

| | Factor | Highway 3 (Segment CC-CI) | Highway 3 Bypass (Segment CC-CE-CI) |
|----------|---------------------|--|---|
| | Changes to Air | No to Low impact on regional basis; | No to Low impact on a regional basis; |
| | Quality | 990+ households within 200 m (includes 90+ homes in | 915+ households within 200 m (includes 770+ homes in |
| | | planned developments) | planned developments); |
| | Community and | Displacements: | Displacements: |
| | Neighbourhood | 95+ households | 85+ households |
| | Impacts | 5+ Businesses | 5+ Businesses |
| | | Disruption: | Disruption: |
| | | 990+ households within 200 m (includes 90+ homes in | 915+ households within 200 m (includes 770+ homes in |
| | | planned developments); | planned developments); |
| | | 5 social features (e.g. schools, places of worship) | 7 social features (e.g. schools, places of worship) |
| | | Community cohesion, character, function: | Community cohesion, character, function: |
| | | Currently significantly impacted due to high levels of | Significant impact on current community and future |
| | | existing traffic on Highway 3; impacts to a high number | community; existing community between Highway 3 and |
| | | of residences | Huron Church Line would be 'encircled' two major |
| | | | roadways |
| | | Overall high impact | Overall high impact |
| | Consistency with | Consistent as existing provincial highway and route to | Not consistent with current/future residential community |
| | Land Use | Ambassador Bridge; not consistent as freeway: Talbot | development: Significant urban planning implications for |
| | | Road runs along boundary of Windsor and LaSalle. | Town of LaSalle. Existing, planned and future urban |
| | | Land use along this corridor includes institutional (St. | development would need to be re-oriented with this option; |
| | | Clair College), commercial and low density residential. | a new roadway corridor by-passing Talbot Road would |
| | | Planned land use in LaSalle identifies Talbot Road | result in physical separation of Heritage Estates community |
| | | corridor as transportation corridor; Windsor Gateway | from the rest of LaSalle. |
| | | Study also identified Talbot Road as preferred route for | |
| ZARANI S | | access to new border crossing. | |
| | | Overall moderate impact | Overall high impact |
| | Impacts to Cultural | 1 locally designated heritage site impacted | No known significant archaeological sites impacted |
| | Resources | | |
| | | Overall, low impact | Overall low impact; slightly preferred |













Highway 3 By-Pass Analysis

| Factor | Highway 3 (Segment CC-CI) | Highway 3 Bypass(Segment CC-CE-CI) |
|---------------------------|--|--|
| Natural Environment | Impacts to edges of sensitive natural areas, notably the St. Clair College Prairie ESA and the Lennon Drain crossing Displacements: | No direct impacts to ESA or CNHS; low impacts to other features |
| | ESA ² = 1.66 ha CNHS ³ = 2.92 ha SSH ⁴ = 3.62 ha | Displacements: PNHF = 0.85 ha |
| | Areas of impact are considered relatively minor; overall low impact | Overall low impact; slightly preferred |
| Improve Regional Mobility | Provides new freeway route; can separate int'l traffic and provide choice for local traffic | Provides new freeway route, can separate int'l traffic and provide choice for local traffic; Talbot Road available for local use |
| | Travel distance = 6.4 km | Travel distance = 8.2 km |
| | Overall low benefit | Overall low benefit |
| Minimize Cost | Construction cost = \$396 M | Construction cost = \$447 M |
| | Traffic management and detours required on Talbot Road and at Highway 3 interchange; relocation of municipal infrastructure in LaSalle and Windsor. | Traffic management and detours required on Huron Church Line and at Highway 3 interchange; relocation of municipal infrastructure in LaSalle |
| | Overall low impact | Overall low impact |









DETROIT RIVER INTERNATIONAL CROSSING ENVIRONMENTAL ASSESSMENT





Summary of Assessment

- •Both options provide similar benefits to regional mobility
- •Both options have high impacts to community and neighbourhood features
- •Highway 3 By-Pass option:
 - •greater impacts to community characteristics
 - •greater impacts to land use
 - slightly higher costs
 - •slightly lower impacts to cultural and natural features

Highway 3 option is preferred













| Detroit River | Arith | ımet | ic E | valı | uatio | on – | - Hi | ghw | ay 3 By-Pass |
|------------------------|--|-----------|----------|--------------------|--------|-------------------|---------|-------------------|--------------|
| INTERNATIONAL CROSSING | Project Team Weighting | | CC-CI-CI | M-CN-CR | CC-CI- | -CJ-CO | CC-CI-C | J-CK-CR | |
| STUDY | | Weighting | Score | Weight x Score | Score | Weight x Score | Score | Weight x Score | |
| | Changes in Air Quality | 12.39 | 3 | 37.17 | 3 | 37.17 | 3 | 37.17 | |
| | Protect Community/ Neighborhood Characteristics | 15.93 | 2 | 31.86 | 1 | 15.93 | 1 | 15.93 | |
| | Maintain Consistency with Existing and Planned Land Use | 12.39 | 2 | 24.78 | 1 | 12.39 | 1 | 12.39 | |
| | Protect Cultural Resources | 12.39 | 2 | 24.78 | 3 | 37.17 | 3 | 37.17 | |
| | Protect the Natural Environment | 15.93 | 2 | 31.86 | 1 | 15.93 | 1 | 15.93 | |
| | Improve Regional Mobility | 17.70 | 5 | 88.50 | 5 | 88.50 | 5 | 88.50 | |
| | Minimize Cost | 13.27 | 1 | 13.27 | 2 | 26.54 | 2 | 26.54 | |
| | Total Weighted Score | 100.00 | | 252.22 | | 233.63 | | 233.63 | |
| | Ranking | | | 1 | | 2 | | 2 | |
| | Public Weighting | | CC-CI-CI | M-CN-CR | CC-CI- | -CJ-CO | CC-CI-C | J-CK-CR | |
| | | Weighting | Score | Weight x Score | Score | Weight x Score | Score | Weight x Score | |
| | Changes in Air Quality | 17.32 | 3 | 51.96 | 3 | 51.96 | 3 | 51.96 | |
| | Protect Community/ Neighborhood Characteristics | 15.49 | 2 | 30.98 | 1 | 15.49 | 1 | 15.49 | |
| | Maintain Consistency with Existing and Planned Land Use | 12.89 | 2 | 25.78 | 1 | 12.89 | 1 | 12.89 | |
| | Protect Cultural Resources | 13.14 | 2 | 26.28 | 3 | 39.42 | 3 | 39.42 | |
| | Protect the Natural Environment | 16.34 | 2 | 32.68 | 1 | 16.34 | 1 | 16.34 | |
| | Improve Regional Mobility | 15.28 | 5 | 76.40 | 5 | 76.40 | 5 | 76.40 | |
| | Minimize Cost | 9.54 | 1 | 9.54 | 2 | 19.08 | 2 | 19.08 | |
| | ////////////////////////////////////// | | | | | | | | |
| | Total Weighted Score | 100.00 | | 253.62 | | 231.58 | | 231.58 | |
| | | 100.00 | | 253.62 1 | | 231.58 | | 231.58 | |







Changes in Air Quality Protect Community/ Neighborhood

Characteristics Maintain Consistency with Existing

and Planned Land Úse Protect Cultural Resources

rotect the Natural Environm Improve Regional Mobility Minimize Cost



Weighting

17.30

13.88

13.69

14.83 10.07 100.00 2

51.90

27.76

27.38

34.22 74.15 10.07

251.72

DETROIT RIVER INTERNATIONAL CROSSING ENVIRONMENTAL ASSESSMENT

Weight x Score

51.90

13.88

13.69

17.11 74.15 20.14

1

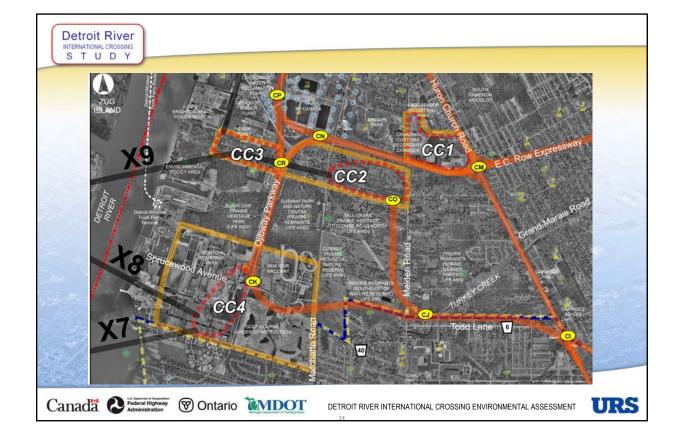
51.90

13.88

13.69

17.11 74.15 20.14





| INTERNATIONAL S T U | Factor | Highway 3/Huron Church/EC | Highway 3/Todd | ch/Ojibway Op | |
|------------------------|--|--|---|--|--|
| 3 1 0 | | Row (Segment CC-CI-CM-CN-CR) | Lane/Malden Road/EC Row (Segment CC-CI-CJ-CO-CR) | Lane/Ojibway Parkway (Segment CC-CI-CJ-CK-CR) | |
| | Changes to Air Quality | Overall no to low impact on a system- wide basis; | Overall no to low impact on a system-wide basis; | Overall no to low impact on a system- wide basis; | |
| | | 1370+ households within 200 m | 1225+ households within 200 m | 1165+ households within 200 m | |
| | Community and Neighbourhood Impacts | Displacements: 130+ households 35+ Businesses Disruption: 1370+ households within 200 m; 10 social features (e.g. schools, places of worship) | Displacements: 115+ households 10- Businesses Disruption: 1225+ households within 200 m; 7 social features (e.g. schools, places of worship) | Displacements: 120+ households 10+ Businesses Disruption: 1165+ households within 200 m; 7 social features (e.g. schools, places of worship) | |
| | | Cohesion and Character: The Highway 3 segment is common to all three alternatives; This alternative largely follows the existing transportation corridor formed by Huron Church Road/EC Row Expressway/Ojibway Parkway; moderate impact on community cohesion and character. | Cohesion and Character: The Highway 3 segment is common to all three alternatives; a new transportation corridor paralleling Todd Lane/Malden Road would sever residential areas from adjacent natural areas and impact highly valued community natural areas/open space; significant impact on community cohesion and character. | Cohesion and Character: The Highway 3 segment is common to all three alternatives; a new transportation corridor paralleling Todd Lane/Sprucewood Ave. would sever residential areas from adjacent natural areas and impact highly valued community natural areas/open space; significant impact on community cohesion and character. | |
| | Consistency with Land Use | Overall moderate impact Consistent as existing route to Ambassador Bridge; not consistent as freeway Option utilizes existing transportation corridors, reducing impacts to current and future land uses in this area of the City compared to the other options Overall moderate impact | Overall high impact Highway 3 section consistent as existing use to Ambassador Bridge, not consistent as freeway; New route through Spring Garden Planning Area not consistent with existing and planned land use; A new route is also not consistent with federal or provincial land use initiatives in this area to protect and perpetuate special and protected species and habitat in this area. Overall high impact | Overall high impact Highway 3 section consistent as existing use to Ambassador Bridge, not consistent as freeway; New route through Spring Garden Planning Area and Ojibway/Black Oak Natural Heritage Areas not consistent with existing and planned land use; A new route is also not consistent with federal or provincial initiatives in this area to protect and perpetuate special and protected species and habitat in this area. Overall high impact | |

| Detroit Riv | er | | Huron Cl | nurch/Ojibwa | у О | ptions |
|-----------------|---------------------|---|--|---|-----|---|
| INTERNAT S T | Factor | Highway 3/Huron Church/EC | Highway 3/Todd | Highway 3/Todd | | |
| 3 1 | | Row | Lane/Malden Road/EC Row | Lane/Ojibway Parkway | | |
| | | (Segment CC-CI-CM-CN-CR) | (Segment CC-CI-CJ-CO-CR) | (Segment CC-CI-CJ-CK-CR) | | |
| 100 | Impacts to Cultural | 1 locally designated Heritage site; | 1 locally designated Heritage site; | 1 locally designated Heritage site; 1 | | |
| | Resources | 2 known significant archaeological | no known significant archaeological | known significant archaeological site | | |
| | | sites impacted | sites impacted | impacted | | |
| | Natural Environment | Overall moderate impact | Overall low impact | Overall low impact | | |
| | Natural Environment | Displacements: ANSI = 0.49 ha | Displacements: ANSI = 16.94 ha | Displacements: ANSI = 23.14 ha | | |
| | | ESA = 2.54 ha | ESA = 23.68 ha | ESA = 30.14 ha | | |
| | | CNHS = 10 10 ha | CNHS = 28.5 ha | CNHS = 21.7 ha | | |
| | | SSH = 10.98 ha | SSH = 32.44 ha | SSH = 35.43 ha | | |
| | | Disruptions: (i.e. within 500m of | Disruptions: (i.e. within 500m of | Disruptions: (i.e. within 500m of | | |
| | | ROW) | ROW) | ROW) | | |
| | | ANSI = 31.06 ha | ANSI = 125.31 ha | ANSI = 198.41 ha | | |
| | | ESA = 52.48 ha | ESA = 151.72 ha | ESA = 219.54 ha | | |
| | | CNHS = 214.76ha | CNHS = 184.63 ha | CNHS = 131.99 ha | | |
| | | Overall moderate impact to | Overall high impact to designated | Overall high impact to designated | | |
| | | designated features | features | features | | |
| | Improve Regional | Provides new freeway route; can | Provides new freeway route; can | Provides new freeway route; can | | |
| | Mobility | separate int'l traffic and provide choice | separate int'l traffic and provide | separate int'l traffic and provide | | |
| | | for local traffic; Utilizes existing key | choice for local traffic; Huron Church | choice for local traffic Huron Church | | |
| | | links in local network for int'l traffic | Road available for local use Travel | Road available for local use Travel | | |
| | | Travel distance = 12.5 km | distance = 12.7 km | distance = 12.2 km | | |
| | | Considered overall low benefit to | Considered overall low benefit to | Considered overall low benefit to | | |
| | | regional mobility as this is only the | regional mobility as this is only the | regional mobility as this is only the | | 210 |
| | | access road portion | access road portion; slightly | access road portion; slightly preferred | | |
| | | access road portion | preferred over HCR/EC Row option | over HCR/EC Row option | | |
| | Cost | Construction Cost = \$759 M | Construction Cost = \$651 M | Construction Cost = \$606 M | | |
| | | Traffic staging required along | Traffic staging required along Talbot | Traffic staging required along Talbot | | |
| | | complete length; existing interchanges | Road section; existing interchange | Road section and Ojibway Parkway | | |
| | | on HCR/Talbot Rd at Highway 3 and | on HCR/Talbot Rd at Highway 3 will | section; existing interchange on | | |
| | | E.C. Row will require reconfiguration; | require reconfiguration; | HCR/Talbot Rd at Highway 3 will | | |
| 1/3/1/3 | | reconstruction of west end of EC Row | reconstruction of portion of EC Row | require reconfiguration; detours at | | |
| | | assumed; detours at crossing | assumed; detours at crossing | crossing roads/intersections may be | | |
| | | roads/intersections may be required; | roads/intersections may be required; | required; relocation of utilities and | | San I |
| | | relocation of utilities and municipal | relocation of utilities and municipal | municipal infrastructure required | | |
| | | infrastructure required | infrastructure required | relocation of utilities and municipal | | |
| Canac | | | l <u>.</u> | infrastructure required | | URS |
| Canac | | Overall high impact | Overall moderate impact | Overall moderate impact | | OLO |



Summary of Assessment

- •All three options have high community impacts with similar direct/indirect impacts to residential areas
- •Huron Church/EC Row option:
 - higher impacts to businesses
 - •greater impacts to cultural features
 - •slightly lower benefits to regional mobility
 - •greater construction costs and more complex construction
 - •lower impacts to community characteristics
 - •lower impacts to land use
 - •lower direct/indirect impacts to natural features west of Huron Church

Overall, the advantages of Huron Church/EC Row option were considered to be more significant than the disadvantages









DETROIT RIVER INTERNATIONAL CROSSING ENVIRONMENTAL ASSESSMENT



Detroit River

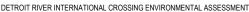
| | | | | | C-CE-CI | |
|--|-----------|-------|-------------------|-------|-------------------|--|
| Project Team Weighting | Weighting | Score | Weight x Score | Score | Weight x Score | |
| Changes in Air Quality | 12.39 | 3 | 37.17 | 3 | 37.17 | |
| Protect Community/ Neighborhood Characteristics | 15.93 | 1 | 15.93 | 1 | 15.93 | |
| Maintain Consistency with Existing and Planned Land Use | 12.39 | 2 | 24.78 | 1 | 12.39 | |
| Protect Cultural Resources | 12.39 | 3 | 37.17 | 3 | 37.17 | |
| Protect the Natural Environment | 15.93 | 3 | 47.79 | 3 | 47.79 | |
| Improve Regional Mobility | 17.70 | 5 | 88.50 | 5 | 88.50 | |
| Minimize Cost | 13.27 | 3 | 39.81 | 3 | 39.81 | |
| Total Weighted Score | 100.00 | | 291.15 | | 278.76 | |
| Ranking | | | 1 | | 2 | |
| | | CC | -CI | CC-(| CE-CI | |
| Public Weighting | Weighting | Score | Weight x Score | Score | Weight x Score | |
| Changes in Air Quality | 17.32 | 3 | 51.96 | 3 | 51.96 | |
| Protect Community/ Neighborhood Characteristics | 15.49 | 1 | 15.49 | 1 | 15.49 | |
| Maintain Consistency with Existing and Planned Land Use | 12.89 | 2 | 25.78 | 1 | 12.89 | |
| Protect Cultural Resources | 13.14 | 3 | 39.42 | 3 | 39.42 | |
| Protect the Natural Environment | 16.34 | 3 | 49.02 | 3 | 49.02 | |
| Improve Regional Mobility | 15.28 | 5 | 76.40 | 5 | 76.40 | |
| Minimize Cost | 9.54 | 3 | 28.62 | 3 | 28.62 | |
| Total Weighted Score | 100.00 | | 286.69 | | 273.80 | |
| Ranking | 100.00 | | 1 | | 2 | |
| | | CC | -CI | CC- | CE-CI | |
| CCG Weighting | Weighting | Score | Weight x Score | Score | Weight x Score | |
| Changes in Air Quality | 17.30 | 3 | 51.90 | 3 | 51.90 | |
| Protect Community/ Neighborhood Characteristics | 13.88 | 1 | 13.88 | 1 | 13.88 | |
| Maintain Consistency with Existing and Planned Land Use | 13.09 | 2 | 27.38 | 1 | 13.69 | |
| Protect Cultural Resources | 13.12 | 3 | 39.36 | 3 | 39.36 | |
| Protect the Natural Environment | 17.11 | 3 | 51.33 | 3 | 51.33 | |
| Improve Regional Mobility | 14.83 | 5 | 74.15 | 5 | 74.15 | |
| Minimize Cost | 10.07 | 3 | 30.21 | 3 | 30.21 | |
| Total Weighted Score | 100.00 | | 288.21 | | 274.52 | |
| Panking | | | 1 | | 2 | |



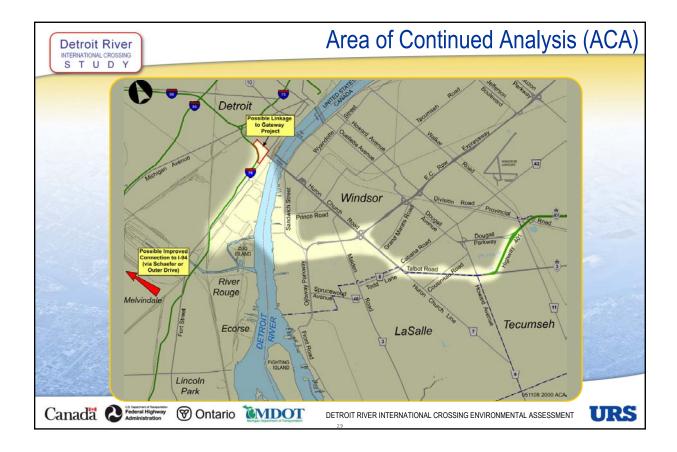














Tunneling

Bored Tunnels

- The layer of soft ground available for boring is generally 25 m to 30 m, which is not thick enough for a 3-lane bored tunnel.
 - Bored Tunnel Requirements:

· Ground to top of tunnel 15m Tunnel 15 m Bottom of tunnel to bedrock 5m

- The new freeway would have some sub-standard shoulder areas
- Access/egress by ramps would be difficult because of tunnel depth
 - · Constructability concerns at tunnel portals
 - Risks with respect to dewatering and groundwater
 - Risks with respect to stability
- Conclusion: Bored tunnels are not considered practical

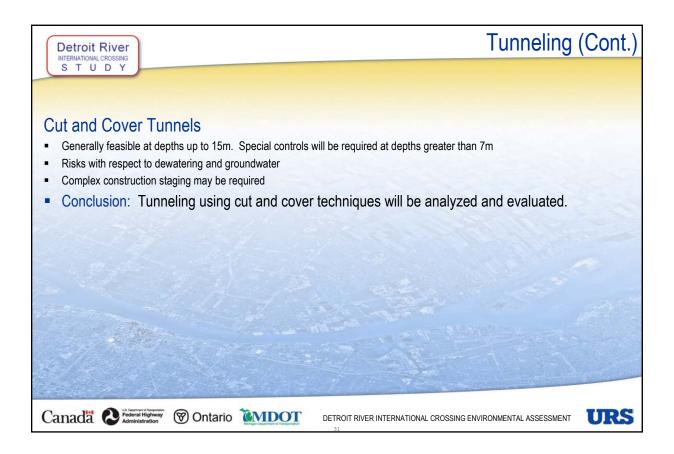


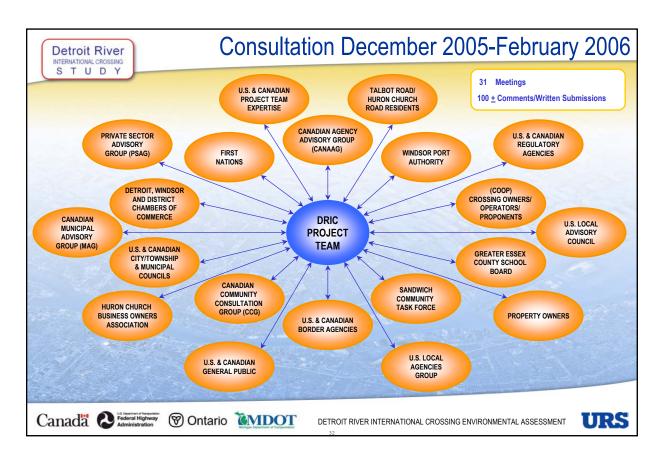












Consultation January 2005-Present

- 35 Public Information Open Houses & Workshops, Public Meetings, Community Consultation Group, and Community Group Meetings
- **27** Advisory Group Meetings
- 24 Other Study Area/Interest Group Meetings
- Municipal Council Meetings









DETROIT RIVER INTERNATIONAL CROSSING ENVIRONMENTAL ASSESSMENT





Community Objectives – Plaza and Crossing

Feedback was received through workshops, meetings and question and answer sessions with the public, businesses, agencies, interested individuals, as well as written submissions.

Inspection Plazas and River Crossings

- Concern with air and noise impacts; keep away from residential areas
- Concern with impacts to Sandwich community; keep plaza and crossing south of Prospect Avenue
- Keep away from natural features (Ojibway Prairie Area, Spring Garden ANSI, Black Oak Woods)
- Favourable plaza location is Brighton Beach industrial area
- Consider security/safety (spills) in the design of the plaza and crossing

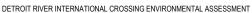
Consultation, workshops and meetings will continue as the Project Team proceeds with the assessment of alternatives to incorporate refinements and design enhancement to reduce imports and increase benefits of the project.





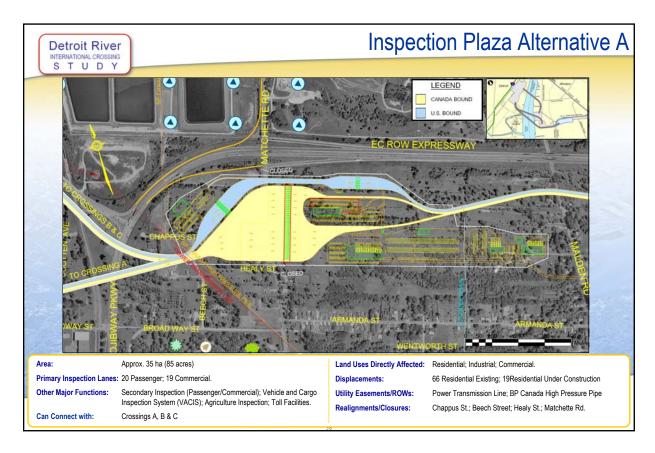




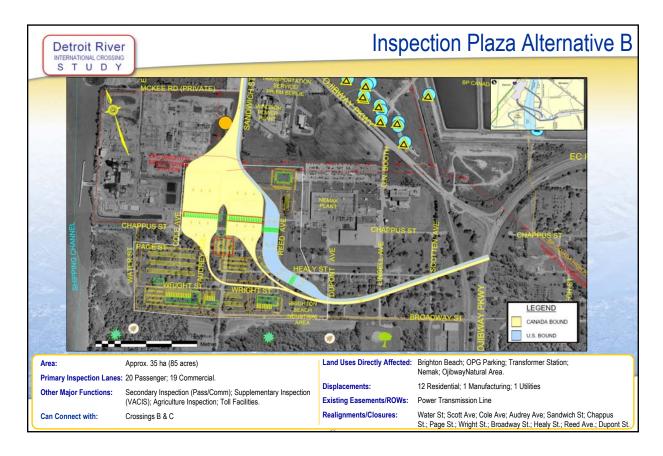




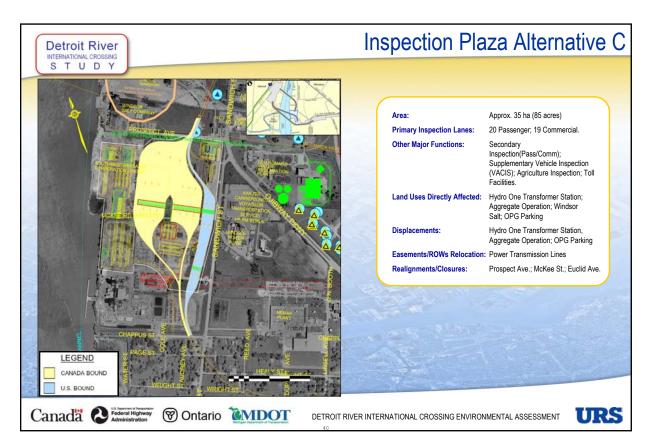




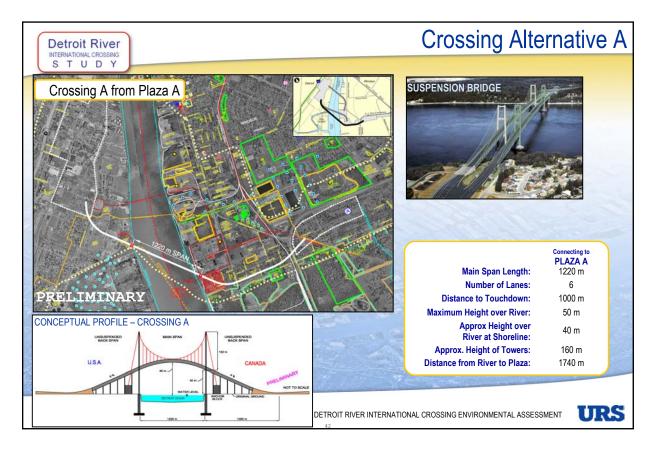


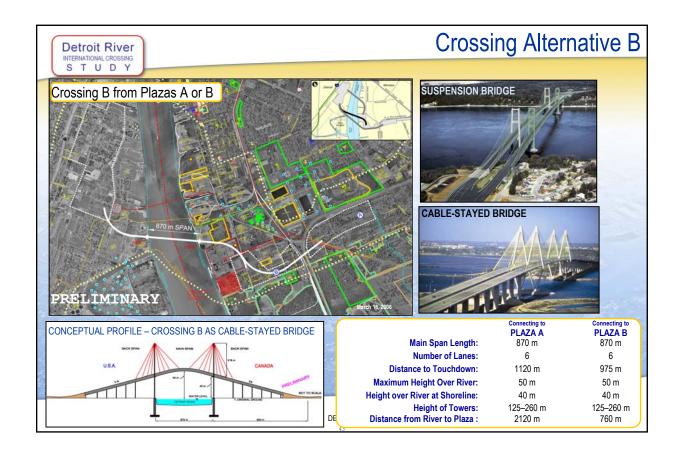


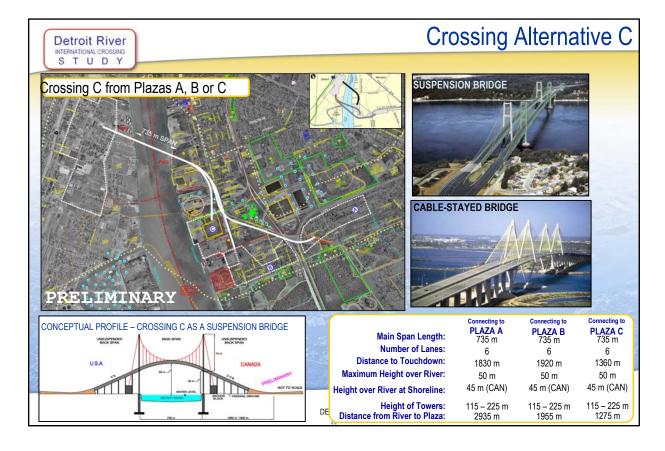












Community Objectives – Access Road

Feedback was received through workshops, meetings and question and answer sessions with the public, businesses, agencies, interested individuals, as well as written submissions

- Minimize the direct and indirect impacts to properties;
 - i.e. Property Takings; Air, Noise, Dust impacts on sensitive areas such as residences and schools
- 2. Separate international and local traffic:
- Maintain the local and regional function of the Huron Church Rd./Highway 3 Corridor: and
- 4. Keep the existing traffic within the existing corridor during construction.

Consultation, workshops and meetings will continue as the Project Team proceeds with the assessment of alternatives to incorporate refinements and design enhancement to reduce imports and increase benefits of the project.









DETROIT RIVER INTERNATIONAL CROSSING ENVIRONMENTAL ASSESSMENT



Detroit River STUDY

Access Route Alternatives

4 Basic Operational Concepts:

- Separate freeway paralleled by one-way service roads:
- 2. Separate freeway paralleled by existing Huron Church Road/Highway 3;
- 3. Tunnel below a rebuilt Huron Church/Highway 3 Corridor; and
- 4. Integrated freeway with interchanges. Service roads provided, as needed, to maintain local access.

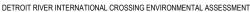
Not Carried Forward



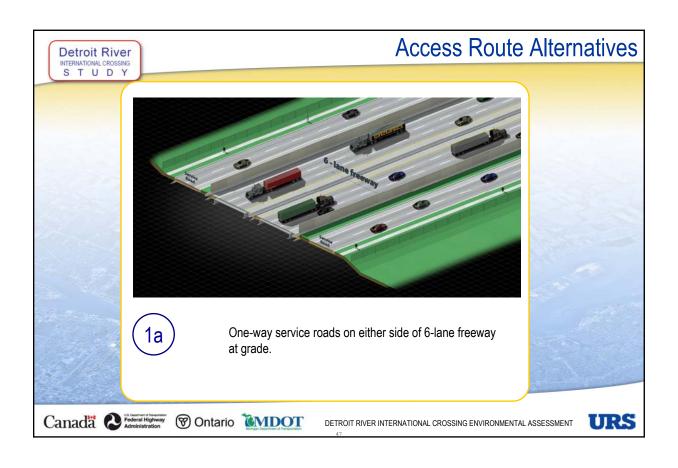


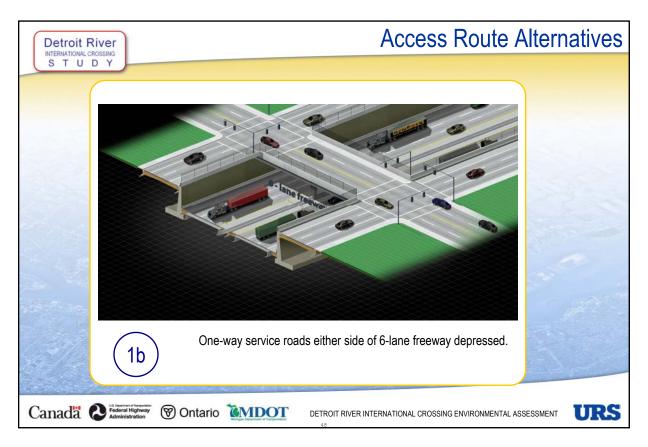


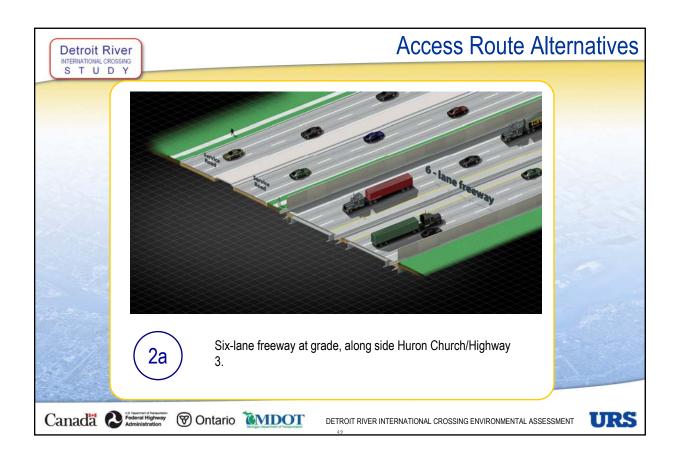


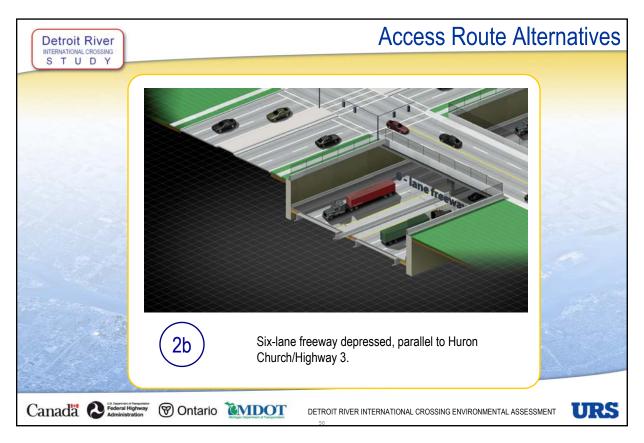


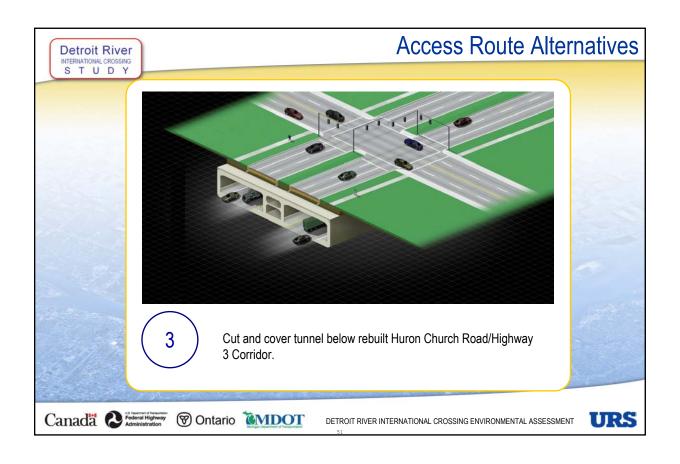


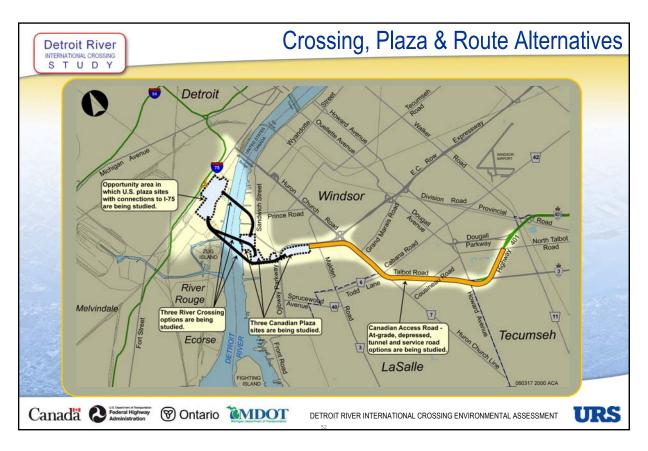












Public Information Open House Sessions:

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.
- Follow-up workshops scheduled as follows:

ACCESS ROADS Tuesday April 11, 2006 6:30 p.m. to 9:00 p.m. Ciociaro Club

PLAZAS AND CROSSINGS Wednesday April 12, 2006 6:30 p.m. to 9:00 p.m. Novelletto Rosati Complex









DETROIT RIVER INTERNATIONAL CROSSING ENVIRONMENTAL ASSESSMENT



Detroit River INTERNATIONAL CROSSING STUDY

What's Next? – Additional Analysis

Acoustical and Vibration

Site Surveys

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 Impact

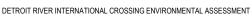
Individual Household Interviews Consultation with Residential Community Associations/Groups















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 Impact

Individual Business Interviews Consultation with Business Associations/Groups









DETROIT RIVER INTERNATIONAL CROSSING ENVIRONMENTAL ASSESSMENT



Detroit River

What's Next? – Additional Analysis

Technical Considerations

Conduct Geotechnical Surveys

Develop Preliminary Geometric Design

Develop Preliminary Construction Staging Plans

Develop Preliminary Cost Estimates

Consult with Municipalities, Agencies, and Stakeholders

Develop Geometric Design Mitigation Strategies













Evaluation Factors

The assessment of Crossing, Plaza and Access Road options will be conducted in accordance with the Environmental and Technical Work Plans and will be based on the following factors and measures:

| Factors | Factors Performance Measures | | | | | | |
|---|---|---|--|--|--|--|--|
| Changes to Air Quality | Effect on concentration of particulate matter Effect on concentration of gaseous pollutants | | | | | | |
| Protect Community and Neighborhood Characteristics | 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 | Impacts to Land Use (existing and planned) Impacts to Development Plans Impacts to Contaminated Sites/Disposal Sites | | | | | | |
| Protect Cultural Resources | Impacts to Built Heritage Features Impacts to Cultural Landscape Units | Impacts to Parklands Impact to Archaeological Features | | | | | |
| Protect the Natural Environment | Impacts to Ecological Landscapes Communities/Ecosystems Population/Species | Surface Water/Groundwater Recharge Areas Other Natural Resources | | | | | |
| Improve Regional Mobility | Assessment of Highway Network Effectiveness Assessment of Continuous/ongoing River Crossing Capacity Operational Considerations of Crossing System (River Crossing and Plaza) | | | | | | |
| Minimize Cost | Primary Construction Cost | Assessment of Constructability | | | | | |

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Next Steps

| 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 (Please Register to Attend) | April 11 |
| Workshop at Novelletto Rosati Complex (Please Register to Attend) | 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 | |



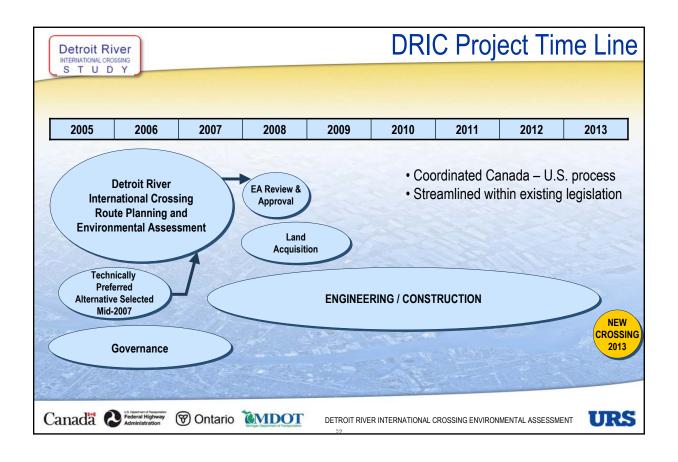


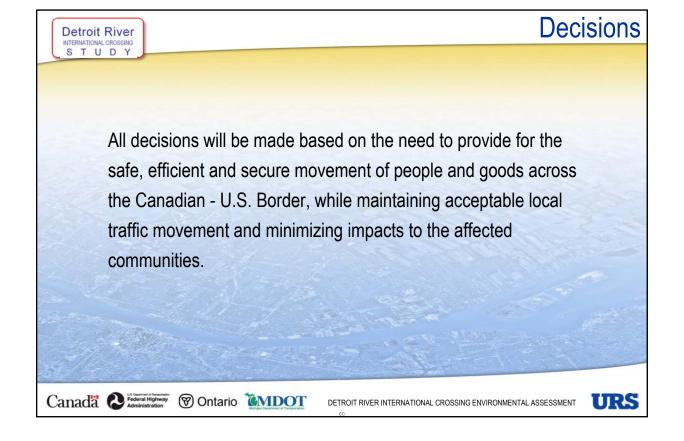


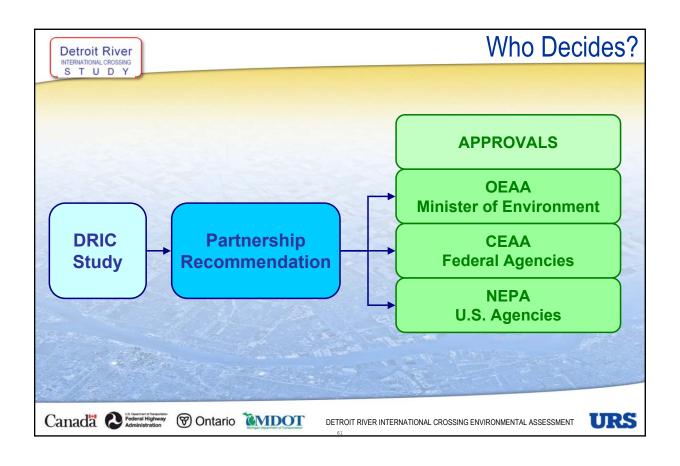
















Canadian Project Team

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DETROIT RIVER INTERNATIONAL CROSSING ENVIRONMENTAL ASSESSMENT

