

## Highway 7&8 Transportation Corridor Planning and Class EA Study

PIC #4 Presentation January 17 & 18, 2011





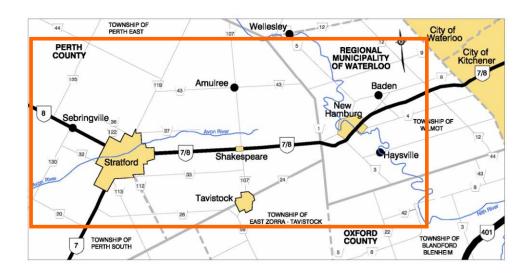


## Today's Presentation

- Provide brief overview of:
  - Study purpose
  - Recently completed work
  - Purpose of PIC #4
  - Material available for review
  - Next steps after PIC #4
- Introduce study team members

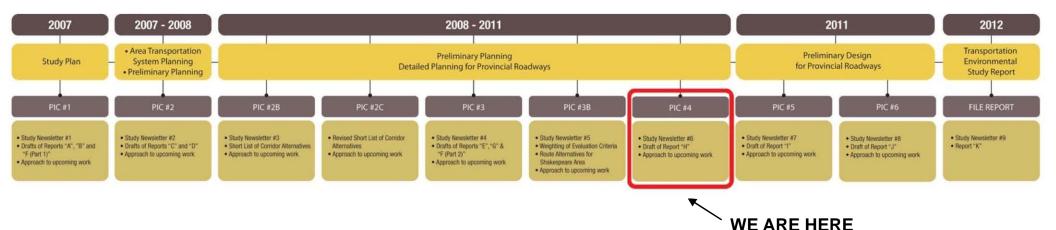


 Develop a plan that addresses long-term (2031) transportation needs for Analysis Area for movement of people and goods



Prepare a preliminary design for provincial roadway components of recommended plan

# Study Update

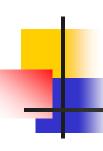


- PIC #3B held in July 2010
  - Broader range of route alternatives for Shakespeare area
  - Refined factors, sub-factors, criteria and indicators for route selection
- Assessment and evaluation of route alternatives completed
- Preferred route selected



## Purpose of PIC #4

- Present and obtain information and input on the following key elements:
  - Route alternative assessment and evaluation results
  - Preferred Route Alternative for entire study area



### **Route Alternatives**

Section 1: West of Highway 7 / Erie Street

Section 2: Lorne Avenue to East of Stratford

Section 3: East of Stratford to East of Perth Line 109 Section 4: Shakespeare Area East of Perth Line 109 to East of Road 106

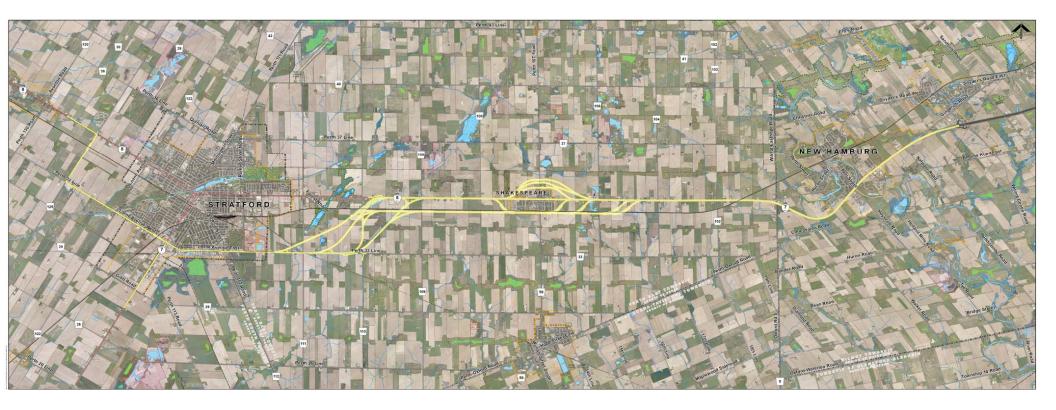
Section 5: East of Road 106 to East of Regional Road 1

Section 6: East of Regional Road 1 to East of Nafziger Road

Single Route Alternative carried forward from PIC #3 Single Route Alternative carried forward from PIC #3

Route Alternatives carried forward from PIC #3

Route Alternatives carried forward from PIC #3B Single Route Alternative carried forward from PIC #3 Single Route
Alternative carried
forward from PIC #3





## Overview of Assessment and Evaluation Process

Study Area divided into six sections for route assessment and evaluation:

- Single route alternative for four sections (Sections 1, 2, 5 and 6)
  - Note: Widening alternatives for these sections to be developed and evaluated during Preliminary Design phase as evaluation indicators for Preliminary Design alternatives are at a higher level of detail that better addresses concerns expressed
- Multiple route alternatives for two sections (Sections 3 and 4)

Section 3: East of Stratford to East of Perth Line 109

Section 4: Shakespeare Area East of Perth Line 109 to East of Road 106

Route alternatives connecting to existing Highway 7&8

Route alternatives connecting to a new route alterative south of the railway corridor



North by-pass route alternatives

Route alternative using existing Highway 7&8

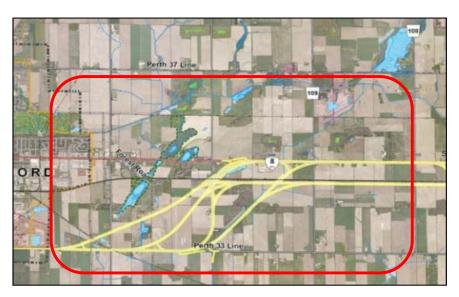
South by-pass route alternatives



# Overview of Assessment and Evaluation Process (Cont'd)

Route alternative assessment and evaluation was completed in steps:

- For Section 3 (east of Stratford):
  - Route alternatives connecting to new route alternative south of railway corridor evaluated to identify preferred alternative
  - Route alternatives connecting to existing Highway 7&8 evaluated to identify preferred alternative
  - Preferred alternative east of Stratford dependent in part on preferred alternative for Shakespeare area





## Overview of Assessment and Evaluation Process (Cont'd)

- For Section 4 (Shakespeare area):
  - North by-pass route alternatives evaluated to identify preferred alternative
  - South by-pass route alternatives east of Shakespeare evaluated to identify preferred alternative
  - Preferred north and south by-pass alternatives and the existing Highway 7&8 alternative evaluated to identify preferred route alternative for Shakespeare Area





### **Evaluation Results**

#### **Evaluation Summary**

Factor Area	Alternative	Alt 1	Alt 2	Alt 3	Alt 4
Natural Environment					
Land Use / Socio-Economic Environment			•	•	•
Cultural Environment					
Transportation			•	•	•



#### Reasoned Argument Evaluation Results

			BEST OF SHAKESPEARE	E AREA ALTERNATIVES		
actor				Route A	Iternative	
Sub- actor	Criteria	Indicator for Route Selection	Best of A plus E A3 + E: 1-2-4-7-10-12-14	Best of A plus F A3 + F: 1-2-4-7-10-12-15	Best of B B1: 1-2-4-5-11-13-15	Existing Highway 7&8 Alignment 1-2-1-6-13-15
NATU	RAL ENVIRONMENTA	AL FACTORS				,
1 Fish	eries and Aquatic Ec	osystems				
	1.1.1 Fish Habitat	Potential and significance of: • encreachment, severance, displacement: • long-term alteration / disruption as applicable to the following: • orisical fish habitat features • riparian areas • habitat rehabitation goals	Low potential to affect fish and fish habitat 2 permanent warmwater and 1 permanent coolwater crossings of Homer Creek containing low to medium quality habitat supporting warmwater fish species 1 permanent coolwater crossing of	Low potential to affect fish and fish habitat 2 permanent warmwater and 1 permanent coolwater crossings of Homer Greek containing low to medium quality habitat supporting warmwater fish species	Low potential to affect fish and fish habitat 2 permanent warmwater and 1 permanent coolwater crossings of Horner Creek containing low to medium quality habitat supporting warmwater fish species Fish communities and habitats	Low potential to affect fish and fish habital  2 permanent warmwater crossings of Horner Creek containing low to medium quality habitat supporting warmwater to species  Existing RCW already represent
	1.1.2 Fish Community	Potential and significance of foliations of the community of the community of the the community of the community of	I permanent contented crossing of acceptance of the medium quality fish habitat.  Prish communities and habitats medium quality fish habitat.  I was contained to the medium quality fish habitat.  I was contained to the content of the content of habitation of the work to the medium quality of the content of habitation of the work of habitation of habitation are likely localized between feeding and squeening stress which are content of the content of th	I permanent coolwater crossing of the Nerth Woodstook River conflaining live to medium quality. Fish communities and habitate present are considered to be moderably resident to distributions and show a second of the second production of a second production of modification and produced to the second production of the short present present production of the short present	Fish commandes and habitals moderably reciliant in distributions and show evidence of habitals above dispressed in the state of the should be above dispressed in a superior area which are a control of the state o	Existing (SEXM already spreament setting quitaries and surface water road run-off. This communities and shallow the setting setti
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	1.2.1 Wildlife	Potential and significance of: • encroachment, severance, displacement; • long-term alteration / disruption as applicable to the following:	Low potential to affect wildlife and their habitat  No special concern, endangered or threatened wildlife species	Low potential to affect wildlife and their habitat  No special concern, endangered or threatened wildlife species	Medium potential to affect wildlife and their habitat  1 threatened amphibian species was reported within or adjacent to	Medium potential to affect wildlife an their habitat  1 threatened amphibian species was reported within or adjacent to

#### **Arithmetic Evaluation Results**

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### Preferred Route Alternative

West of Stratford and through Stratford

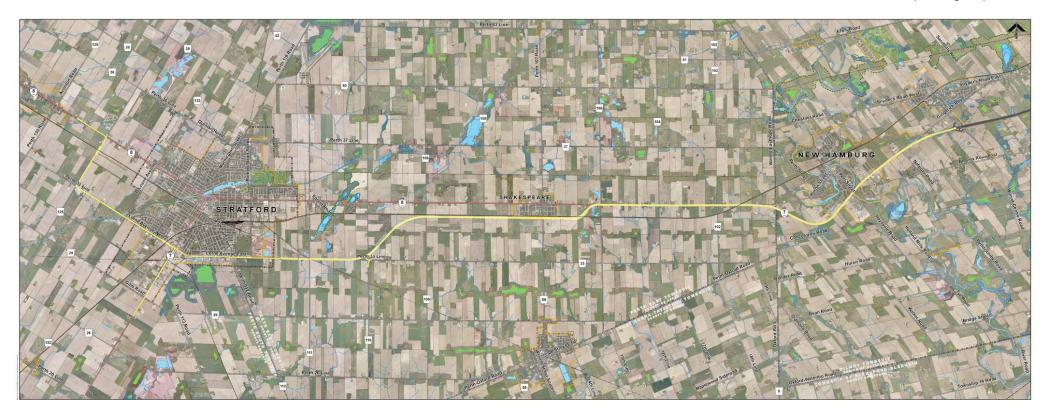
 Existing Hwy 8, Perth Road 125, Lorne Avenue and Erie Street alignments East of Stratford

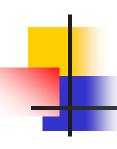
 Perth Road 33 to west of Road 110, new alignment on east side of Central municipal drain to south side of railway corridor Shakespeare Area

 New alignment on south side of railway corridor to east of Shakespeare, connecting to existing Hwy 7&8 west of Road 106 East of Shakespeare to East of New Hamburg

• Existing highway alignment

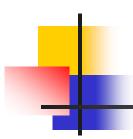
Note: Widening, cross section and crossing road connection alternatives to be developed during next phase.





### Next Steps

- Respond to comments received through PIC #4 consultation process
- Confirm Preferred Route Alternative for entire study corridor
- Initiate Preliminary Design, including generation of preliminary design alternatives for:
  - Highway widening / cross-section
  - Crossing road connections (interchanges, overpasses / underpasses, at-grade intersections)
- PIC #5 Late Spring 2011
  - Present preliminary design alternatives



Thank you for your attention.

Please direct your questions and comments to the Study Team members at the display boards.