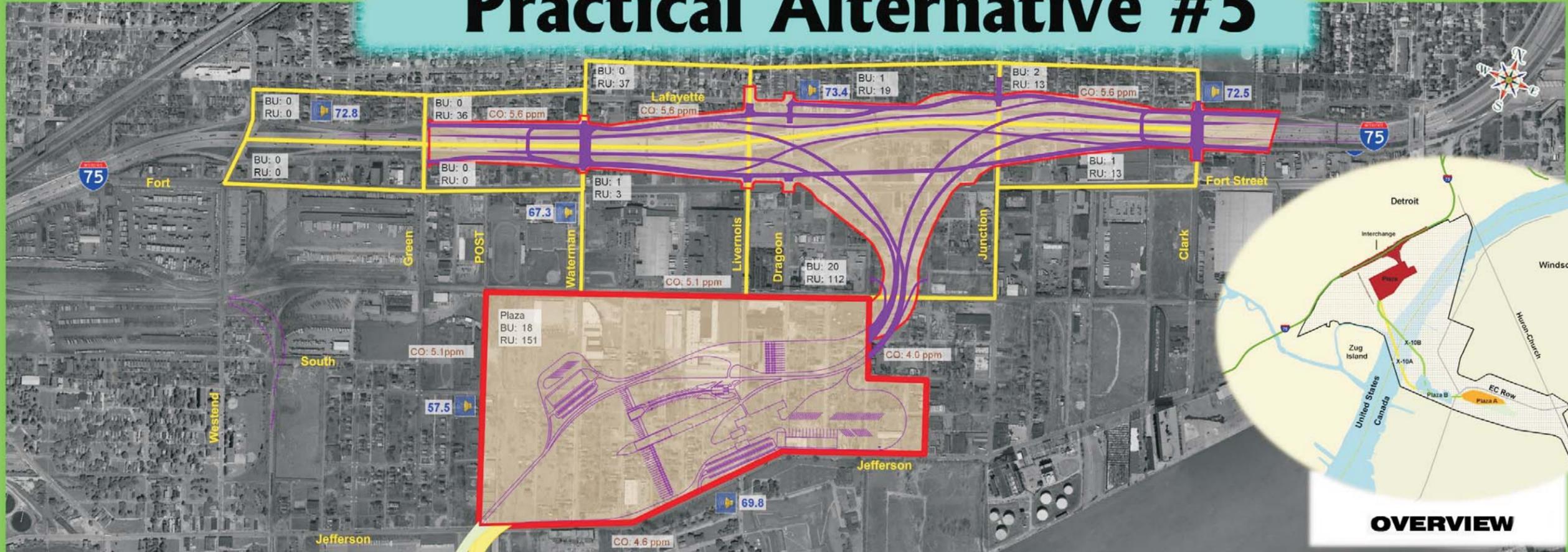


Detroit River International Crossing Practical Alternative #5

PRELIMINARY
(AS OF 11/15/2006)



OVERVIEW

Alternative 5 – Preliminary Summary of Impacts

EVALUATION FACTOR	PERFORMING MEASURE	UNITED STATES SUMMARY				CANADIAN SUMMARY			
		INTERCHANGE	PLAZA	CROSSING		X-10A/PLAZA A	X-10B/PLAZA A	X-10B/PLAZA B1	
				X-10A	X-10B				
PROTECT COMMUNITY NEIGHBORHOOD CHARACTERISTICS	TRAFFIC	STREETS CLOSED	6	14	0	0	12		
	NOISE	FRONTLINE EXPOSURE (TOTAL RESIDENTIAL)	88	101	4	4	23 (receptors > 5dB increase)		
	POTENTIAL ACQUISITION	OCCUPIED RESIDENTIAL	233	151	0	0	67		
		ACTIVE BUSINESSES	25	18	3	2	0		
MAINTAIN CONSISTENCY WITH LOCAL PLANNING	OFFICIAL PLANS	CONSISTENCY	Yes	No	Yes	Yes	No (Plaza)		
	ENVIRONMENTAL SITES AFFECTING PLAN IMPLEMENTATION	NUMBER	5	6	2	2	0		
	ABOVEGROUND HISTORIC/ON NATIONAL REGISTER	NUMBER	0	0	0	0	6		
PROTECT CULTURAL RESOURCES	POTENTIALLY ELIGIBLE FOR REGISTER STRUCTURES	NUMBER/SITE	3-OLIVET CHURCH, APART BUILDING, DETROIT SAVINGS BANK	1-ST. PAUL A.M.E	0	0	6		
		NUMBER/SITE	0	2	0	0	6		
	ARCHAEOLOGIC SITES	NUMBER/SITE	0	1-RADEMACHER PARK	0	0	0		
PROTECT THE NATURAL ENVIRONMENT	SIGNIFICANT HABITAT (ED-Endangered / PL-Potential)	NUMBER/SITE	0	0	0	0	2.9 ha TALLGRASS PRAIRIE, 0.2 ha FISH, BUTLER'S GARTERSNAKE		
IMPROVE REGIONAL MOBILITY (Sized to 2035 Volumes)	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	2035 ADT	SEE CROSSING DATA	SEE CROSSING DATA	37,400	37,400	37,400		
CONSTRUCTABILITY (All System Components are Constructable)	KEY ISSUES	REFER TO INDIVIDUAL CROSSING COMPONENT	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	UTILITY RELOCATION, BRAIDED RAMPS	BRIDGE LENGTH /COMPLEXITY, CONTAMINATED SOILS	CONTAMINATED SOILS, UTILITIES	POWER STATION/UTILITIES, RAIL LINE		
MAINTAIN AIR QUALITY	ONE HOUR CO CONCENTRATION HOTSPOTS		REFER TO GRAPHIC				INCREASES IN PM2.5 AND NOx IN VICINITY OF CROSSING, APPROACH ROADWAY, AND PLAZA.		

LEGEND

- U.S. Plaza & Interchange Footprint
 - Interchange & Local Streets
 - Canadian Plaza A (X-10A)
 - Canadian Plaza A (X-10B)
 - Canadian Plaza B (X-10B)
 - Crossing X-10A
 - Crossing X-10B
 - Existing Noise Level (Decibel dBA)
- CO: Carbon Monoxide Concentration (ppm)
(2035 Peak hr - incl. 3.4ppm background)
- BU: # of Active Business Units
RU: # of Occupied Residential Units

97,400 ADT

**Detroit River International Crossing Study
Evaluation of Practical Alternatives
Supporting Data - Alternative 05**

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Evaluation Factor	Performance Measure Category	Description/Units	Interchange	Plaza	Crossing X10A	Crossing X10B		
Protect Community / Neighborhood Characteristics	Traffic Impacts	Streets Closed (permanently)	Number	6	see Public Safety	0	0	
		Streets Crossed	Number	9	see Public Safety	2	2	
		Streets Rerouted	Number	4	see Public Safety	0	0	
		Streets with Interchange	Number	1	see Public Safety	NA	NA	
		Railines Crossed	Number	2	see Public Safety	0	0	
	Noise	Frontline Exposure	Number of dwelling units exposed	88	101	4	4	
		Significant Receptors ¹ Exposures	Number /Specify	9	2	2	2	
	Community Cohesion/ Character	Positive/Negative/Neutral		Neutral ⁵	Neutral ⁵	Neutral ⁵	Neutral ⁵	
	Potential Acquisition	Residential Units	Occupied	233	151	0	0	
			Vacant	2	4	0	0	
		Residential Population	Number	571	370	0	0	
			Active	25	18	3	2	
		Business Units	Vacant	19	11	0	0	
			Estimated Employees in affected					
		Census Blocks ²	Number	80-110	281	151	100	
			Schools - Partial take Parking Lot		1	0	0	0
		Other Land Uses Affected ³	Senior Service Facilities		0	0	0	0
			City/Government Facilities		2	2	0	0
			Places of Worship		2	3	0	0
			Medical Facilities		1	0	0	0
			State/Federal Government Facilities		1	1	0	0
	Community Services/Parks			0	0	0	0	
	Vacant			0	0	0	0	
	Environmental Justice / Title VI	EJ Populations in affected Census Block Groups	EJ Population (non poverty)	6583	1524	490	490	
			Population Groups Affected	Hispanic	African American, American Indian,	African American, American Indian,	African American, American Indian,	
			% Households in Poverty / Above or Below 9.9% Regional Threshold ⁴	30.8%/Above	39.6%/Above	36.2%/Above	36.2%/Above	
			Households in poverty	797	296	76	76	
		Title VI Groups in Census Tracts	Presence of Regionally Prominent Ancestral Groups	None	None	None	None	
	Public Safety/ Security (Plaza & Crossing)	Proximity to Industry ⁶	Number of heavy industry businesses w/ 1/2 mile	N/A	3	3	3	
			Number of medium industry businesses w/ 1/2 mile	N/A	6	1	1	
Number of light industry/office businesses w/ 1000ft/300m			N/A	4	0	0		
Proximity to Residential / Retail		Number of residences w/ 500ft/150m	N/A	49	16	13		
		Number of businesses w/ 500ft/150m	N/A	10	4	4		
Proximity to Hazardous Materials		Number of EPA/DEQ Hazmat TSD Facilities w/ 500ft/150m	N/A	0	0	0		
		Distance to nearest fire station (mi)	N/A	0.6	0.14	0.14		
Emergency Response		Distance to nearest police station (mi)	N/A	0.9	1.38	1.38		
		Number of streets closed (perm.)	N/A	14	0	0		
		Number of streets closed (during const.)	N/A	11	1	1		
	Mainline Railines Rerouted	N/A	2	0	0			

1. Sensitive noise receptors are historic sites, medical facilities, parks, places of worship, schools, within fifty meters of an alignment, plaza, or crossing.

Interchange: First Latin American, Detroit Friends Meeting Quakers, El Abrigo Altsimo, Michigan Bell Bldg, Fort & Green Police Station, Beard Early Learning School, Detroit Savings Banks

Plaza: Historic Fort Wayne & Southwestern High School

Crossing Alt. 1-13 are Historic Fort Wayne & Delray Park Public Boat Launch

2. Employee estimates provided by Tetrad Computer Applications and are based on employees per Census Block Group - proportionately disaggregated to the block level for blocks within or partially within plaza boundaries. Plazas have been field surveyed to determine occupancy status of businesses.

3. Potential Acquisitions

Interchange: Partial Beard Early Learning Center, Military Avenue Church, Old Landmark Church, City Waste Disposal Facility, Partial Detroit Public Safety Building/Homeland Security, Metromatrix Human Services

Plaza: Rademacher Recreation Center, Detroit Sewer and Water Department, New Day Church, Saint Paul AME, Abundant Life Apostolic Overcoming Holy Church, Family Independence Agency

4. The poverty threshold for the SEMCOG region is 9.9%. Block groups with percentage of households living in poverty above 9.9% qualify as environmental justice communities.

PPO Receptors: Southwestern High School, Apt. Bldg @ Campbell and Fischer Service Dr., Ft. Wayne, Unemployment Office

5. Community Cohesion could/will be improved as a result of the master planning for the area relating to the urban fabric and how the crossing system fits with that fabric.

6. Plaza: (H) Mistersky Power Station, Detroit Thomas Edison Plant, Lafarge (M) Arvin Meritor, Produce Terminal, Hascal Steel, Progressive Distribution Center, Bridgewater Interiors, Yellow Trucking

Crossing: (H) Zug Island, Lafarge, Detroit Thomas Edison (M) Yellow Trucking

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Detroit River International Crossing Study
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Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X10A	Crossing X10B
Maintain Consistency w/Local Planning	Official Plans	Consistency	YES/NO	Yes	No	Yes	Yes
	Other Plans	Consistency	YES/NO	Yes1	Yes 1	Yes1	Yes1
	Environmental Sites Affecting Plan Implementation (single sites may have multiple designations)	Leaking Undgrd. Stor. Tanks	Number	3	1	0	0
		EPA/DEQ Hazmat TSD Facility	Number	1	0	0	0
		National Priority List (Superfund)	Number	0	0	0	0
		RTK Cerclis (Superfund)	Number	1	2	1	1
Michigan Contaminated Site	Number	0	3	1	1		

Residential-low-to medium density planned SE corner of PPO outline officially and unofficially

1. Based on master planning being designed with community input as part of the D R I C Study.

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**Detroit River International Crossing Study
Evaluation of Practical Alternatives
Supporting Data - Alternative 05**

Evaluation Factor	Performance Measure Category	Description/Units	Interchange	Plaza	Crossing X10A	Crossing X10B	
Protect Cultural Resources	Above Ground Historic Resources	Historic Districts	Number	0	0	0	0
		Listed NRHP Sites/Structures	Number	0	0	0	0
		Listed SHRS Sites/ Structures	Number	0	0	0	0
		Locally Listed Sites/Structures	Number	0	0	0	0
		Potentially Eligible Sites/Str. ¹	Number	3	1	0	0
	Archaeology	Prev. Recorded Sites ²	Number	0	2	0	0
	Below Ground Resources ¹	Potential to Find/Record	High/Med/Low	Low	Medium	Medium	Medium
	Parkland	All Public Parks	Number/ Acres	0	1	0	0
		6(f) Parks	Number/Specify	0	0	0	0
		Coastal Zone Management	Number of Projects/Specify	0	0	0/0	0/0

1. Interchange: Olivet Church, 707 Lewerenz; Apartment Bldg, 760 Campbell; Detroit Savings Bank, 5705 W. Fort.

Plaza: St. Paul A.M.E. Church, 581-585 S. Rademacher

2. Plaza: 20WN382, King David's Lodge Cemetery-Jewish 1870 (dating and name of cemetery is believed to be in error. It is more likely the Detroit City Lodge (Jewish) Cemetery located "north of Fort Street west, about 3 miles from City Hall" [Polk's Detroit City Directory 1886:68]); 20WN6, Carsten Mound

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**Detroit River International Crossing Study
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				Interchange	Plaza	Crossing X10A	Crossing X10B
Evaluation Factor	Performance Measure Category		Description/Units				
Protect The Natural Environment	Surface Water	Floodplain	Number/Acres	0	0	3	0
		Surface Run Off	Acres	11	164	0	0
		Primary Streams ¹	Number/Specify	0	0	1: Detroit R.	1: Detroit R.
		Secondary Streams ²	Number/Specify	0	0	0	0
		Other Water-crossings	Number/Specify	0	0	0	0
	Groundwater	Municipal Wells	Number	0	0	0	0
		Water In-takes	Number/Specify	0	0	0	0
	Significant Habitat	Wetlands	Acres	0	0	0	0
		Fens / Bogs	Number/Acres	0	0	0/0	0/0
		Endangered Species ³	Potential Species	0/0	0	0/0	0/0
		Designated Wildlife Refuges	Number/Acres	0	0/0	0/0	0/0
	Prime/Unique Farmland	Farmland	Acres	0	0	0	0
	Mineral Resources	Salt /Limestone	Type/Specify	Salt	Salt	Salt	Salt

Notes:

1: Primary Streams are classified as water courses with an average width greater than 50ft/15m

2: Secondary streams are classified as water courses with an average width less than 50ft/15m.

3: Based on preliminary site investigation of the plaza sites (viewing from public access points), none of the plant or animal species listed as endangered species within the quads for this region are expected to occur within the boundaries of the plazas .

The crossings includes open portions of the Detroit River and nearshore areas where threatened, endangered, and special concern species are known to have been present. A summary of species with a potential to be present is provided below. This analysis and site investigation are preliminary in nature.

1 animal species listed by the State as Threatened is known to spawn upstream of the crossing corridor at Zug Island. 7 animal species listed by the State as Threatened, Endangered, or Special Concern have the potential to be present within specific habitats within or near the crossing corridor.