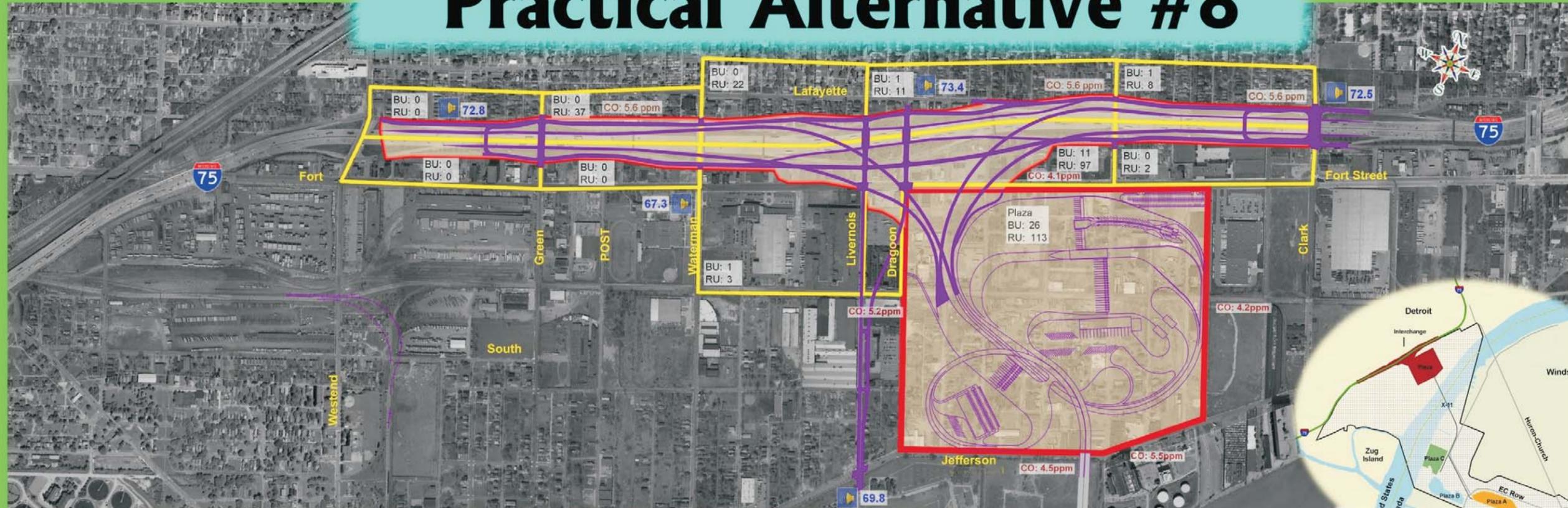


# Detroit River International Crossing Practical Alternative #8

PRELIMINARY  
(AS OF 11/15/2006)



Alternative 8 – Preliminary Summary of Impacts

EVALUATION FACTOR	UNITED STATES SUMMARY					CANADIAN SUMMARY		
	PERFORMING MEASURE	INTERCHANGE	PLAZA	CROSSING X-11		X-11(CEG/C-G) PLAZA A	X-11 PLAZA B	X-11 PLAZA C
PROTECT COMMUNITY NEIGHBORHOOD CHARACTERISTICS (NOTE: NOISE WILL BE MITIGATED BY SOUND WALLS)	TRAFFIC	STREETS CLOSED	7	14	0	3/4	16	5
	NOISE	FRONTLINE EXPOSURE (TOTAL RESIDENTIAL OCCUPIED RESIDENTIAL ACTIVE BUSINESSES)	109	95	0	180 (receptors > 5dB increase)	180 (receptors > 5dB increase)	180 (receptors > 5dB increase)
		POTENTIAL ACQUISITION	180	113	0	72/67	38	37
	SIGNIFICANT OTHER	5-FIRST LATIN BAPTIST, DETROIT FRIENDS MEETING QUAKERS, OLD LANDMARK CHURCH, MILITARY AVE CHURCH, BEARD SCHOOL (PARTIAL)	14	26	0	9/9	9	13
1-FAITH TABERNACLE CHURCH		0	0	0	1-SOCIAL FEATURE (INSTITUTIONAL)-ERIE WILDLIFE RESCUE	1-SOCIAL FEATURE (INSTITUTIONAL)-ERIE WILDLIFE RESCUE	1-SOCIAL FEATURE (INSTITUTIONAL)-ERIE WILDLIFE RESCUE	
MAINTAIN CONSISTENCY WITH LOCAL PLANNING	OFFICIAL PLANS	CONSISTENCY	Yes	YES	YES	NO (Plaza A)/YES	YES	YES
	ENVIRONMENTAL SITES AFFECTING PLAN IMPLEMENTATION	NUMBER	6	7	3	11/2	11	12
PROTECT CULTURAL RESOURCES	ABOVEGROUND HISTORIC/NATIONAL REGISTER	NUMBER	0	0	0	8/8	9	9
	POTENTIALLY ELIGIBLE FOR REGISTER STRUCTURES	NUMBER/SITE	3-OLIVET CHURCH, FISHER BODY, APART BLDG	2-ROBERTS BRASS MFG, DETROIT SAVINGS BANK	1-MISTERSKY	N/A	N/A	N/A
	ARCHAEOLOGIC SITES	NUMBER	0	2	1	6/6	6	6
PROTECT THE NATURAL ENVIRONMENT	PARKLANDS	NUMBER/SITE	0	1-DETROIT CITY PARK	0	1- OJIBWAY PARK (0.7 ha)	1- OJIBWAY PARK (0.7 ha)	1- OJIBWAY PARK (0.7 ha)
	SIGNIFICANT HABITAT	NUMBER/SITE	0	0	0	2.9 ha TALLGRASS PRAIRIE, 0.2 ha FISH, BUTLER'S GARTERSNAKE	2.9 ha TALLGRASS PRAIRIE, 0.2 ha FISH, BUTLER'S GARTERSNAKE, ENCROACH BLACK OAK WOODS	0.9 ha TALLGRASS PRAIRIE, 0.7 ha FISH, BUTLER'S GARTERSNAKE
IMPROVE REGIONAL MOBILITY (Alternative Sized to 2035 Volumes)	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	2035 ADT	NA	NA	32,000	32,000	32,000	
CONSTRUCTABILITY (All System Components are Constructible)	KEY ISSUES	REFER TO INDIVIDUAL CROSSING COMPONENT	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	SIGNIFICANT SEWER RELOCATION, POTENTIAL CONTAMINATED SOILS, RAILWAY RELOCATION	CONTAMINATED SOILS	STERLING FUELS, POWER STATION/UTILITIES, RAIL LINE	STERLING FUELS, POWER STATION/UTILITIES, RAIL LINE	STERLING FUELS, 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.			

32,000 ADT

**LEGEND**

- U.S. Plaza & Interchange Footprint
- Interchange & Local Streets
- Canadian Plaza A
- Canadian Plaza B
- Canadian Plaza C
- Crossing X-11
- 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

**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 08**

DRAFT  
FOR DISCUSSION PURPOSES ONLY  
11-15-06

Evaluation Factor	Performance Measure Category	Description/Units	Interchange	Plaza	Crossing X11		
<b>Protect Community / Neighborhood Characteristics</b>	Traffic Impacts	Streets Closed (permanently)	Number	7	see Public Safety	0	
		Streets Crossed	Number	9	see Public Safety	1	
		Streets Rerouted	Number	3	see Public Safety	0	
		Streets with Interchange	Number	1	see Public Safety	NA	
		Railines Crossed	Number	2	see Public Safety	0	
	Noise	Frontline Exposure	Number of dwelling units exposed	109	95	0	
		Significant Receptors <sup>1</sup> Exposures	Number /Specify	10	2	2	
	Community Cohesion/ Character	Positive/Negative/Neutral		Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	
	Potential Acquisition	Residential Units	Occupied	180	113	0	
			Vacant	1	0	0	
		Residential Population	Number	441	277	0	
		Business Units	Active	14	26	0	
		Estimated Employees in affected Census Blocks <sup>2</sup>	Vacant	14	11	0	
			Number	50-70	294	0	
		Other Land Uses Affected <sup>3</sup>	Schools - Partial take Parking Lot		1	0	0
			Senior Service Facilities		0	0	0
			City/Government Facilities		1	1	0
			Places of Worship		4	1	0
			Medical Facilities		1	1	0
			State/Federal Government Facilities		1	0	0
			Community Services/Parks		0	0	0
			Vacant		0	0	0
	Environmental Justice / Title VI	EJ Populations in affected Census Block Groups	EJ Population (non poverty)	6689	617	0	
			Population Groups Affected	American Indian, Hispanic	American Indian, Hispanic	None	
			% Households in Poverty / Above or Below 9.9% Regional Threshold <sup>4</sup>	31.6%/Above	37.5%/Above	None	
		Households in poverty	866	138	0		
	Title VI Groups in Census Tracts	Presence of Regionally Prominent Ancestral Groups	None	None	None		
	Public Safety/ Security (Plaza & Crossing)	Proximity to Industry <sup>6</sup>	Number of heavy industry businesses w/1 1/2 mile	N/A	2	3	
			Number of medium industry businesses w/1 1/2 mile	N/A	5	2	
			Number of light industry/office businesses w/1 1000ft/300m	N/A	3	0	
Proximity to Residential / Retail		Number of residences w/1 500ft/150m	N/A	94	0		
		Number of businesses w/1 500ft/150m	N/A	30	1		
Proximity to Hazardous Materials		Number of EPA/DEQ Hazmat TSD Facilities w/1 500ft/150m	N/A	0	0		
		Distance to nearest fire station (mi)	N/A	0.7	0.4		
Emergency Response		Distance to nearest police station (mi)	N/A	0.5	0.4		
		Number of streets closed (perm.)	N/A	14	0		
		Number of streets closed (during const.)	N/A	11	1		
	Mainline Railines Rerouted	N/A	2	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: All Saints Church, Faith Tabernacle, New Beginning Ministry, Military Ave. Church, Michigan Bell Bldg, Fort & Green Police Station, Beard Early Learning School  
Plaza: Historic Fort Wayne & Southwestern High School  
Crossing: Historic Fort Wayne & Delray Park Public Boal 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, First Latin America, Old Landmark Church, Detroit Friends Meeting Quakers, Military Ave Church, Partial Detroit Public Safety Building/Homeland Security, Metromatrix Human Services  
Plaza: City Waste Disposal Facility, Greater Apostolic Faith Church

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 (M) Port of Detroit, O.J. Logistics, Arvin Meritor, Bridgewater Interiors, Progressive Distribution  
Crossing: (H) Mistersky Power Station, Port of Detroit, Detroit Edison (M) OJ Logistics, Bridgewater Interiors

DRAFT  
 FOR DISCUSSION PURPOSES ONLY  
 11-15-06

**Detroit River International Crossing Study  
 Evaluation of Practical Alternatives  
 Supporting Data - Alternative 08**

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
	Official Plans	Consistency		Yes	Yes	Yes
<b>Maintain Consistency w/Local Planning</b>	Other Plans	Consistency	YES/NO	Yes1	Yes 1	Yes1
	Environmental Sites Affecting Plan Implementation (single sites may have multiple designations)	Leaking Undgrd. Stor. Tanks	Number	4	3	1
		EPA/DEQ Hazmat TSD Facility	Number	1	0	0
		National Priority List (Superfund)	Number	0	0	0
		RTK Cerclis (Superfund)	Number	1	2	1
		Michigan Contaminated Site	Number	0	2	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.

DRAFT  
FOR DISCUSSION PURPOSES ONLY  
11-15-06

**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 08**

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
Protect Cultural Resources	Above Ground Historic Resources	Historic Districts	Number	0	0	0
		Listed NRHP Sites/Structures	Number	0	0	0
		Listed SHRS Sites/ Structures	Number	0	0	0
		Locally Listed Sites/Structures	Number	0	0	0
		Potentially Eligible Sites/Str. <sup>1</sup>	Number	3	2	1
	Archaeology	Prev. Recorded Sites <sup>2</sup>	Number	0	2	1
	Below Ground Resources <sup>1</sup>	Potential to Find/Record	High/Med/Low	Low	Medium	Medium
	Parkland	All Public Parks	Number/ Acres	0	1/2.24	0
		6(f) Parks	Number/Specify	0	0	0
		Coastal Zone Management	Number of Projects/Specify	0	0	0/0

1. Interchange: Olivet Church, 707 Lewerenz; Turnsteads (Fisher Body), 6307 W. Fort; Apartment Bldg, 760 Campbell.

Plaza: Roberts Brass Mfg. Co. (vacant), 5401-5409 E. Fort; Detroit Savings Bank, 5705 W. Fort

Crossing: Mistersky Power Station 5467 W. Jefferson

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]); 20WN407, Collot 2 (c. 1796 farmstead location as depicted on Collot Map of Detroit Settlement-conjectural location)

Crossing: Archaeology, Prev. Recorded Sites.- 20WN3 Copper Works Mound (Alternate Location)

DRAFT  
FOR DISCUSSION PURPOSES ONLY  
11-15-06

**Detroit River International Crossing Study**  
**Evaluation of Practical Alternatives**  
**Supporting Data - Alternative 08**

				Interchange	Plaza	Crossing X11
Evaluation Factor	Performance Measure Category		Description/Units			
Protect The Natural Environment	Surface Water	Floodplain	Number/Acres	0	0/0	0.21
		Surface Run Off	Acres	9	158	0
		Primary Streams <sup>1</sup>	Number/Specify	0	0	1: Detroit R.
		Secondary Streams <sup>2</sup>	Number/Specify	0	0	0
		Other Water-crossings	Number/Specify	0	0	0
	Groundwater	Municipal Wells	Number	0	0	0
		Water In-takes	Number/Specify	0	0	0
	Significant Habitat	Wetlands	Acres	0	0	0.47
		Fens / Bogs	Number/Acres	0	0	0/0
		Endangered Species <sup>3</sup>	Potential Species	0/0	0	0/0
		Designated Wildlife Refuges	Number/Acres	0	0/0	0/0
	Prime/Unique Farmland	Farmland	Acres	0	0	0
	Mineral Resources	Salt /Limestone	Type/Specify	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.

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.