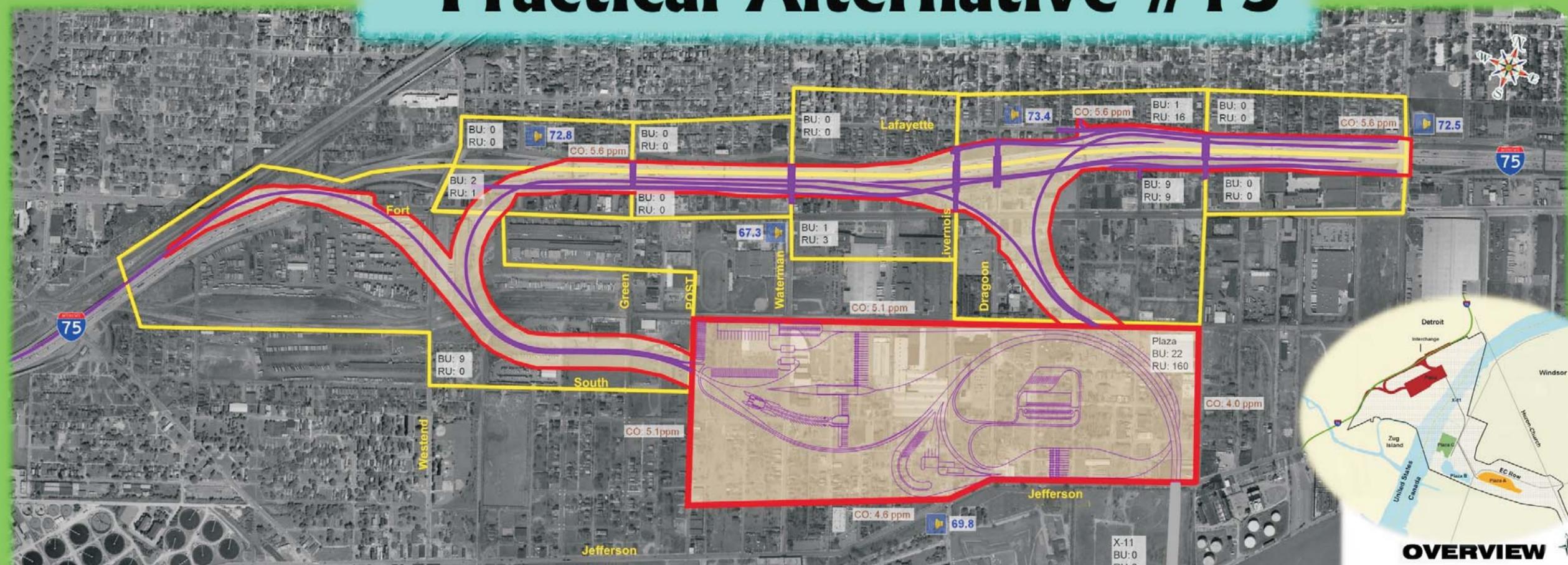


# Detroit River International Crossing Practical Alternative #13

PRELIMINARY  
(AS OF 11/15/2006)



Alternative 13 – 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	TRAFFIC	STREETS CLOSED	1	17	0	3/4	16	5	
	POTENTIAL ACQUISITION	NOISE	FRONTLINE EXPOSURE (TOTAL RESIDENTIAL) OCCUPIED	28	72	0	180 (receptors >5dB increase)	180 (receptors >5dB increase)	180 (receptors >5dB increase)
		ACTIVE BUSINESSES		29	160	0	72/67	38	37
		SIGNIFICANT OTHER		22	22	0	9/9	9	13
MAINTAIN CONSISTENCY WITH LOCAL PLANNING	OFFICIAL PLANS	CONSISTENCY	YES	No	YES	NO (Plaza A)/YES	YES	YES	
	ENVIRONMENTAL PLANS AFFECTING PLAN IMPLEMENTATION	NUMBER	9	7	3	11/2	11	12	
PROTECT CULTURAL RESOURCES	ABOVEGROUND HISTORIC/ON NATIONAL REGISTER	NUMBER	0	0	0	8/8	9	9	
	POTENTIALLY ELIGIBLE FOR REGISTER STRUCTURES	NUMBER/SITE	5-ALL SAINTS CHURCH, PRODUCE TERMINAL, MICHIGAN BELL BLDG, FORT POLICE STATION, OLIVET CHURCH	1-ST. PAUL A.M.E. CHURCH	1	N/A	N/A	N/A	
PROTECT THE NATURAL ENVIRONMENT	ARCHAEOLOGIC SITES	NUMBER	0	2	1	6/6	6	6	
	PARKLANDS	NUMBER/SITE	0	1-RADEMACHER	0	1- OJIBWAY PARK (0.7 ha)	1- OJIBWAY PARK (0.7 ha)	1- OJIBWAY PARK (0.7 ha)	
IMPROVE REGIONAL MOBILITY (Alternative Sized to 2035 Volumes)	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	2035 ADT	NA	NA	27,900	27,900	27,900		
CONSTRUCTABILITY (All System Components are Constructible)	KEY ISSUES	REFER TO INDIVIDUAL CROSSING COMPONENT	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	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.				



**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

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Evaluation Factor	Performance Measure Category	Description/Units	Interchange	Plaza	Crossing X11		
<b>Protect Community / Neighborhood Characteristics</b>	Traffic Impacts	Streets Closed (permanently)	Number	1	see Public Safety	0	
		Streets Crossed	Number	12	see Public Safety	0	
		Streets Rerouted	Number	0	see Public Safety	0	
		Streets with Interchange	Number	5	see Public Safety	NA	
		Railines Crossed	Number	5	see Public Safety	0	
	Noise	Frontline Exposure	Number of dwelling units exposed	28	72	0	
		Significant Receptors <sup>1</sup> Exposures	Number /Specify	8	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	29	160	0	
			Vacant	0	4	0	
		Residential Population	Number	71	392	0	
		Business Units	Active	22	22	0	
		Estimated Employees in affected Census Blocks <sup>2</sup>	Vacant	10	5	0	
			Number	60-80	304	0	
		Other Land Uses Affected <sup>3</sup>	Schools - Partial take Parking Lot		0	0	0
			Senior Service Facilities		0	0	0
			City/Government Facilities		2	2	0
			Places of Worship		4	3	0
			Medical Facilities		0	0	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)	6994	1524	617	
			Population Groups Affected	American Indian, Hispanic	African American, American Indian,	American Indian, Hispanic	
			% Households in Poverty / Above or Below 9.9% Regional Threshold <sup>4</sup>	33.9%/Above	39.6%/Above	37.5%/Above	
			Households in poverty	1038	296	138	
	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	3	3	
			Number of medium industry businesses w/1 1/2 mile	N/A	6	4	
			Number of light industry/office businesses w/1 1000ft/300m	N/A	3	3	
Proximity to Residential / Retail		Number of residences w/1 500ft/150m	N/A	68	29		
		Number of businesses w/1 500ft/150m	N/A	13	5		
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	0.8	0.4		
		Number of streets closed (perm.)	N/A	17	2		
		Number of streets closed (during const.)	N/A	15	2		
	Mainline Railines Rerouted	N/A	3	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: Faith Tabernacle Church, New Beginning, El Abigo Altisimo, Detroit Friends Meeting Quakers, Early Learning Beard School, Michigan Bell Bldg, Fort & Green Police Station  
Plaza: Historic Fort Wayne & Southwestern High School

Crossing: 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: First Latin America, All Saint, Old Landmark, Military Ave Church, City Waste Disposal Facility, Partial Detroit Public Safety Building/Homeland Security  
Plaza: Rademacher Recreation Center, Detroit Sewer and Water Department, New Day Church, Saint Paul AME, Abundant Life Apostolic Overcoming Holy 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.

Plaza: (H) Mistersky Power Station, Detroit Thomas Edison Plant, Lafarge (M) Arvin Meritor, Produce Terminal, OJ Logistics, Progressive Distribution Center, Yellow Trucking, Bridgewater Interiors  
Crossing: (H) Mistersky Power Plant, Port of Detroit, Detroit Edison (M) OJ Logistics, Bridgewater Interiors, Hascal Steel, Packing Materials Company

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Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
<b>Maintain Consistency w/Local Planning</b>	Official Plans	Consistency	YES/NO	Yes	No	Yes
	Other Plans	Consistency	YES/NO	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>
	Environmental Sites Affecting Plan Implementation (single sites may have multiple designations)	Leaking Undgrd. Stor. Tanks	Number	5	2	1
		EPA/DEQ Hazmat TSD Facility	Number	1	0	0
		National Priority List (Superfund)	Number	0	0	0
		RTK Cerclis (Superfund)	Number	2	2	1
Michigan Contaminated Site	Number	1	3	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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Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
<b>Protect Cultural Resources</b>	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	5	1	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: All Saints Church, 7800 W. Fort; Produce Terminal, 7201 W. Fort; Michigan Bell (Vinewood Exc) Building, 7400 W. Fort; Fort & Green Police Station, 7104 W. Fort; Olivet Church, 707 Lewerenz.

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

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]); 20WN6, Carsten Mound

Crossing: 20WN3 Copper Works Mound (Alternate Location)

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				Interchange	Plaza	Crossing X11
Evaluation Factor	Performance Measure Category		Description/Units			
<b>Protect The Natural Environment</b>	Surface Water	Floodplain	Number/Acres	0	0/0	0.21
		Surface Run Off	Acres	11	175	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.