

# Initial Alternatives (Tier 1) Screening Matrix

Alternative	PURPOSE & NEED CRITERIA													
	Improve Safety		Reduce Congestion			Promote Sustainability			Provide Flexible Choices			Accomodate Local and Regional Growth		
	Reduction in number and severity of Congestion Related Crashes	Improve Bicycle and Pedestrian Safety at Crossroad Arteries	Change in Travel Level of Service	Change in Travel Speed	Change in Corridor Person Throughput	Change in Roadway & Bridge Condition	Change in Travel Time Reliability	Support Environmental Sustainability	Long-term Corridor Operations Flexibility and Adaptability	Access and Connectivity to Bicycle & Pedestrian Facilities	Reliability for Transit Riders	Compatibility with Local Planning	Compatibility with Regional Planning	Employment Equity
	Achievement	Achievement	Achievement	Achievement	Achievement	Achievement	Achievement	Achievement	Achievement	Achievement	Achievement	Achievement	Achievement	Achievement
No-Build														
Improvement to Alternative Routes														
Existing Capacity Management														
Multimodal														
Traditional Widening														
Express Toll Lanes														

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Alternative	NATURAL & HUMAN ENVIRONMENT CRITERIA									ENGINEERING & COST CRITERIA							
	Park and Recreational Area Impacts	Community Facility Impacts	Environmental Justice - Low Income and Minority Population Impacts	Noise Impacts	Natural Resource Impacts (Wetlands, Floodplains, Critical Habitat, T&E Species)	Hazardous Material Impacts	Cultural and Historic Sites Impacts	Air Quality, Emissions and Energy Impacts	Indirect and Cumulative Impacts	Roadway and Interchange Geometrics	Right-of-Way Impacts	Residential or Business Displacements	Timing of Construction	Ease of Phasing, Maintenance of Traffic, and Constructability	Estimated Construction Costs	Estimated Life-Cycle Costs	Funding Confidence
	Impact	Impact	Impact	Impact	Impact	Impact	Impact	Impact	Impact	Impact	Impact	Impact	Impact	Impact	Impact	Impact	Impact
No-Build													N/A	N/A			
Improvement to Alternative Routes																	
Existing Capacity Management																	
Multimodal																	
Traditional Widening																	
Express Toll Lanes																	