Alternative Evaluation Matrix

The first phase of alternatives evaluation included developing evaluation criteria and assigning a high, medium or low score relative to the other alternatives for each criterion. After reviewing the number of high or low scores assigned to each alternative, based on public and resource agency input DelDOT will recommend the alternatives that should be advanced for further evaluation.

Improvement Rating: Low Medium High

CRITERIA	SAFETY CONCERNS			WEAVE AREA ISSUES	OPERATIONAL CONCERNS			INTERCHANGE FUNCTION	RIGHT-OF-WAY	COST
Measure	SR 273 between Chapman Rd. through the I-95 Interchange	I-95 Ramp & Mainline	Overall Intersection Safety of Harmony Road at SR 273	Weave area between I-95 off-ramp & Harmony Road	Delay at the Harmony Road/ SR 273 intersection	Back-up along southbound off-ramp I-95	Travel time on SR 273 between Chapman Road and SR 4	Route continuity SR 273	# of properties affected [residential/ commercial)	Order of magnitude
No-Build Alternative	Low	Low	Low	Low	Low	Low	Low	Low	High	High
Alt 1: Full closure of Harmony Road at SR 273	Low	Low	Medium	Medium	Medium	Low	Low	Low	High	High
Alt 2A: NB Harmony Road closed at SR 273	Low	Low	Medium	Medium	Low	High	Low	Low	High	High
Alt 2B: Alt 2A plus converts portion of Harmony Road SB only	Low	Low	Medium	Medium	Low	High	Low	Low	High	High
Alt 3A: Partial diamond; remove NE loop; 2 new signals	Low	High	Medium	High	Low	High	Low	High	High	Medium
Alt 3B: Partial diamond, 1 new signal	Medium	High	Medium	High	Low	High	Low	High	High	Medium
Alt 4A: DDI 1 bridge (4 EB & 3WB lanes)	High	High	Medium	High	Low	High	Medium	High	High	Medium
Alt 4B: DDI 2 bridges (4 EB & 4 WB lanes)	Medium	High	Medium	High	Low	High	Medium	High	High	Medium
Alt 5: SR 273 3rd Lane to SR 4	Low	Medium	Medium	Medium	High	Medium	High	Low	Low	Low
Alt 6: N. Gerald Drive ramp from I-95	Medium	High	Medium	Medium	Medium	High	Medium	Low	Medium	Medium
Alternative 7A: Continental/ N. Gerald Roundabout	Medium	High	Medium	Medium	Medium	High	Medium	Low	Low	Low
Alternative 7B: Continental/ Brownleaf Roundabout	Medium	High	Medium	Medium	Medium	High	Medium	Low	Low	Low
Alt 8A: Partial S. Gerald Dr. closure; rights-in/ rights-out	Low	Low	Low	Low	Medium	Medium	High	Low	High	High
Alt 8B: Alt 8A plus removed SR 273 left turns at Harmony Rd.	Low	Medium	Medium	Low	High	Medium	High	Low	High	High
Alt 9: Realignment of Harmony Road	Low	Low	Low	Low	Low	Low	Low	High	Low	Low