	HAM-275/75 Ramp Alignment Impact Matrix													
Meets Project Objective Partially Meets Project Objective Minimally Meets Project Objective Does Not Meet Project Objective	Eliminate entrance/exit weaving on HAM-275- 2572 bridge (between ramps B & G)	Eliminate entrance/exit weaving under HAM-275- 2572 bridge (between ramps F & B)	Improve safety for ramp movements	Increase ramp capacity	Prohibit impacts to HAM- 275-2572 bridge	Objectives Minimize disruption to traffic during construction	Minimize R/W impacts	Minimize environmental impacts	Minimize utility impacts	Enable future part-width construction on ramp bridges	Allow for ramps to be constructed separately	Assumptions	Conceptual Level Construction Cost Estimate (2014 dollars)	
Alternative 1 I-275 EB to I-75 NB (35 mph)	•	×	ſ	0	•	Ο	•	•	•	•	•	1) Ramp G would need modified or temporarily closed for profile of new ramp to tie into I-75 below HAM-275-2572 bridge. 2) Alternative 1 is compatible with Alternatives 4, 5, and 6. 3. Alternative 1 would need built prior to construction of Alternatives 4 and 5.	\$ 24.070.299	
Alternative 2 I-275 EB to I-75 NB (40 mph)	•	×	ſ	•	•	•	ſ	•	•	●	ſ	 Assumes replacement, lengthening, and part width construction of Ramp D bridge over I-75 (HAM-75-1697). Part width construction would require overbuilding to maintain one lane of traffic unless the bridge can be temporarily closed during construction. Alternative 2 is compatible with Alternatives 4 and 5. Alternative 2 would need built prior to construction of Alternatives 4 and 5. Potential impacts to the stream that flows under I-75 that is a tributary to Mill Creek. 	\$ 35,957,360	
Alternative 3 I-275 EB to I-75 NB (45 mph)	•	×	•	•	•	•	0	•	•	●	ſ	 Alternative 3 is compatible with Alternatives 4 and 5. Alternative 3 would need built prior to construction of Alternatives 4 and 5. and 5. Alternative 3 is not compatible with Alternative 6 due to profile conflicts. Potential impacts to the stream that flows under I-75 that is a tributary to Mill Creek. 	\$ 35,907,255	
Alternative 4 I-75 SB to I-275 EB (35 mph)	×	•	•	0	•	Ο	•	•	•	●	ſ	 Profile is unable to tie into I-275 prior to bridge HAM-275-2572 without excessive grades. Alternative 4 is compatible with Alternatives 1, 2, and 3. Alternative 4 would need built subsequent to the construction of Alternatives 1, 2, and 3. Ramp B would need to be closed prior to ramp tie-in with I-275. 	\$ 21,455,978	
Alternative 5 I-75 SB to I-275 EB (45 mph)	×	•	•	•	•	•	•	•	●	●	ſ	 Alternative 5 is compatible with Alternatives 1, 2, and 3. Alternative 5 would need built subsequent to the construction of Alternatives 1, 2, and 3. HAM-275-2594 bridge could potentially require minor widening to the south. 	\$ 24,226,041	
Alternative 6 I-75 SB to I-275 EB (50 mph)	•	•	•	•	•	•	•	•	•	•	•	 Alternative 6 is a stand-alone ramp alternative. Alternative 6 eliminates both entrance/exit weave movements at the interchange. Alternative 6 assumes the outside EB lane (i.e. 4th lane) is dropped at Ramp G, therefore the new ramp would be an add lane. Alternative 6 requires traffic modeling to confirm mainline LOS is acceptable with an outside lane drop. Minor profile adjustments are potentially necessary to establish revised gore area with Ramp H. 	1 \$ 37,835,583	