



DIAMOND INTERCHANGE ALTERNATE No.1
“TIGHT DIAMOND”



DIAMOND INTERCHANGE ALTERNATE No.2
“STANDARD DIAMOND”

Note: For either interchange alternative, the environmental effects, engineering considerations, right-of-way requirements, and project costs are the same for the remainder of the project area outside of the diamond interchange area.

	Diamond Interchange Alternate No. 1 "Tight" Diamond at I-75 Interchange area only	Diamond Interchange Alternate No. 2 "Standard" Diamond at I-75 Interchange area only
Right of Way Acquisition		
Property Acquisition (Ac.)	12.9 Acres	27.5 Acres
Residential Building Acquisitions	2 (Northwest Quadrant)	3 (2 Northwest, 1 Southwest Quads)
Institutional Building Acquisitions	1 (Church)	1 (Church)
Commercial Building Acquisitions	None	1 (Kendall Office Park)
Interchange Costs and Schedule		
Right of Way Cost	\$2.8 Million	\$5.0 Million
Construction Cost*	\$12.7 Million	\$9.0 Million
Total Cost	\$15.5 Million	\$14.0 Million
Construction Duration	30 Months	24 Months
Geometrics & Traffic		
Bridge Width	117 Feet (8 Lanes)	105 Feet (7 Lanes)
Capacity LOS	Acceptable LOS C	Acceptable LOS C
Access Management Control	NCHRP 332 guidelines not met	NCHRP 332 guidelines met
Sidewalk Issues	Barrier Along Wall	Not Applicable (No Wall)
Construction Aspects		
Ease of Maintenance of Traffic	Kendall access problem	Minimal Problems
Constructability Concerns	Walls Required	Mitigation Stream Relocation
Geotechnical Issues	Wall construction footings	Minimal Problems
Future Concerns		
Accommodate Future Widening	Not compatible	More Compatible
Maintenance of Walls	Extensive effort	Not Applicable
Utility Conflicts	More Difficult	Less Difficult
Aesthetics & Stakeholders		
Flexibility for Aesthetics	Less Flexible	More Flexible
Stakeholder Opinion	Not Desired by Stakeholders	Desired by Stakeholders
Environmental Affects		
Wetlands Impacted (Ac.)	0.0 Acres	0.0 Acres
Streams Impacted (Linear Feet)	0 Linear Feet	431 Linear Feet
Ph 2 ESA Sites Crossed	0 Sites	2 Sites
Forested Areas Impacted (Ac.)	7.8 Acres	15.9 Acres
Wetland Impact (Ac.)	1.7 Acres	4.3 Acres

* Total construction cost estimate of the entire project with the tight diamond is \$37 Million and total construction cost estimate of the entire project with the standard diamond is \$33.5 Million.

