

Fern Valley Interchange: Eastside Design Options.

	Design Features	Traffic Operations	Pros	Cons
Eastside Options				
PBA	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Meets capacity standards at all key locations for the 20-year design period (using current comprehensive plan projections). • Allows for future growth beyond 20 years. • Queuing does not interfere with the interchange or Phoenix downtown couplet operations in the 20-year planning period. 	<ul style="list-style-type: none"> • Keeps existing Fern Valley alignment • Minimal right of way acquisition • Minimal out-of-direction travel 	<ul style="list-style-type: none"> • Access issues with truck traffic • Wider cross-section on Fern Valley Road • Least efficient option for N. Phoenix Rd/Fern Valley Rd intersection (heavy northbound movement) • Large intersection in close proximity to neighborhood • All traffic goes through N. Phoenix/Fern Valley Intersection • Mixes truck and local traffic • Not bicycle/pedestrian friendly
TPAU	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Same as PBA Eastside Option. 	<ul style="list-style-type: none"> • Separates truck stop and local traffic • Better traffic flow (less truck/local traffic conflicts) • Pulls large intersection away from neighborhood • Unrestricted truck access • Small cross-section on Fern Valley Road 	<ul style="list-style-type: none"> • Least efficient option for N. Phoenix Rd/Fern Valley Rd intersection (heavy northbound movement) • All traffic goes through N. Phoenix/Fern Valley Intersection • Old Fern Valley Road dead ends • Not bicycle/pedestrian friendly
North Phoenix Thru	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Same as PBA Eastside Option. 	<ul style="list-style-type: none"> • Small cross-section on Fern Valley Road • Best handles heavy northbound movement on N. Phoenix Road • Best signal/interchange spacing • Major intersection moved far from neighborhood • Separates through traffic from local/business traffic • N Phoenix Rd/Fern Valley Rd intersection is unsignalized, minimizing truck queuing and noise • Unrestricted truck access 	<ul style="list-style-type: none"> • Out-of-direction travel for eastside businesses and residents • Old Fern Valley Road dead ends • Out of direction bicycle and pedestrian facilities