

SR 408 EASTERN EXTENSION PD&E

Segment 1 - Evaluation Matrix

LEGEND	
++	SUBSTANTIALLY POSITIVE EFFECT OR BEST ALTERNATIVE
+	GENERALLY POSITIVE EFFECT OR GOOD ALTERNATIVE
0	GENERALLY NO EFFECT OR MODERATE ALTERNATIVE
-	GENERALLY NEGATIVE EFFECT OR INFERIOR ALTERNATIVE
--	GENERALLY NEGATIVE EFFECT OR WORST ALTERNATIVE

PRELIMINARY CONCEPTUAL EXPRESSWAY EXTENSION EVALUATION SEGMENT 1 (FROM BEGINNING OF STUDY TO AVALON PARK BOULEVARD)

OPTIONS	IMPACTS	ENGINEERING					ENVIRONMENTAL			SOCIO-ECONOMIC			COST		TOTAL SCORE 100
		ACCESS ISSUES	OPERATIONAL ISSUES	SAFETY	COMPATIBILITY WITH SR 50	WETLAND IMPACTS	CONTAMINATION	NOISE	TOTAL IMPACT (ACRES)	IMPACTS TO SENSITIVE SITES	CONTROVERSY POTENTIAL	CONSTRUCTION	R/W		
AT-GRADE (with selective grade separations)	Urban	Requires provision of CD facility along the north side to preserve integrity of local access. Would cause a rerouting of traffic via the CD roads.	May create operational issues at access points to SR 50 due to closely spaced intersections	Generally safe alternative	Compatible with SR 50 improvements. Relatively minor MOT disruptions expected along SR 50	Less than 10 acres of wetland impacts anticipated	Can potentially impact 1 contaminated site	Some noise impacts anticipated to abutting residences	Relatively significant impacts (22 acres)	Partially impacts Duke Energy facility	Generally moderate controversy due to significant residential relocations and businesses no longer fronting SR 50	Generally low to moderate construction cost (approximately \$40M)	Would require the relocation of a significant number of businesses and some residences	48.0	
	Rural	Similar to previous alternative	Generally similar to previous alternative	Generally similar to previous alternative	Generally similar to previous alternative	Less than 10 acres of wetland impacts anticipated	Can potentially impact 1 contaminated site	Generally similar to previous alternative	Major impact (64 acres)	Completely impacts large Duke Energy facility	Generally similar to previous alternative	Generally low to moderate construction cost (approximately \$35M)	Generally similar to previous alternative with greater residential impacts	43.2	
	Urban	Requires provision of CD facility along the south side to preserve integrity of local access	May create operational issues at access points to SR 50 due to closely spaced intersections	Generally safe alternative	Compatible with SR 50 improvements. Relatively minor MOT disruptions expected along SR 50	Less than 10 acres of wetland impacts anticipated	Can potentially impact 4 contaminated sites	Generally no impacts anticipated	Relatively significant impacts (22 acres)	Generally no impacts	Generally moderate controversy due to businesses no longer fronting SR 50	Generally low to moderate construction cost (approximately \$40M)	Would require the relocation of a significant number of businesses	49.4	
	Rural	Similar to previous alternative	Generally similar to previous alternative	Generally similar to previous alternative	Generally similar to previous alternative	Less than 10 acres of wetland impacts anticipated	Can potentially impact 4 contaminated sites	Generally no impacts anticipated	Major impact (64 acres)	Generally no impacts	Generally similar to previous alternative	Generally low to moderate construction cost (approximately \$35M)	Generally similar to previous alternative	47.8	
	Urban	Only minor access issues associated with median access. Access will be provided at downstream grade separations	Median location coupled with close proximity to new modified SR 408/SR 50 interchange will likely create left hand entrance/exit and operation concerns	Generally safe alternative. Potential additional turbulence along SR 50 in the proximity of the ingress and egress locations is a minor concern	Requires major reconstruction of SR 50 and potential MOT disruption along SR 50 during construction	No impacts anticipated	No impacts to potentially contaminated sites anticipated	Generally no impacts anticipated	Relatively minor impacts (4 acres)	Generally no impacts	Generally moderate controversy potential due to impacts to newly constructed SR 50 as well as impacts to median access	Generally moderate construction cost (approximately \$55M)	Little or no relocations anticipated	58.6	
	Urban	Could require provision of various CD facility along the north and south sides to facilitate local access	Provides ingress & egress along the left side of the new facility and creates potential weaving issues along SR 50 as well as several closely spaced intersections	Left side ingress/egress locations and potential weaving issues along SR 50 are a concern	Compatible with SR 50 improvements. Relatively minor MOT disruptions expected along SR 50. Some additional delays during construction due to impacts to properties on north and south sides	Less than 10 acres of wetland impacts anticipated	Can potentially impact 5 contaminated sites	Some noise impacts anticipated to abutting residences to the north	Relatively significant impacts (22 acres)	Generally no impacts	Generally high controversy potential due to access impacts along both the north and south sides and businesses no longer fronting SR 50	Generally low to moderate construction cost (approximately \$45M)	Some business and residential relocations required. Impacts greater number of parcels than previous alternatives	37.2	
	Urban	No significant local access issues. May require some CD facilities.	No significant operational problems. Must be compatible with new SR 408/SR 50 interchange	Generally safe alternative	Compatible with SR 50 improvements. Relatively minor MOT disruptions expected along SR 50	Less than 10 acres of wetland impacts anticipated	Can potentially impact 1 contaminated sites	Some noise impacts anticipated to abutting residences	Relatively minor impacts along corridor and at interchanges	Generally no impacts	Generally moderate controversy due to visual obstructions to businesses and aesthetic impacts	High construction cost (approximately \$190M)	Some business and residential relocations required.	52.4	
	Urban	Similar to previous alternative. May require some CD facilities.	Similar to previous alternative	Generally safe alternative	Similar to previous alternative	Less than 10 acres of wetland impacts anticipated	Can potentially impact 4 contaminated sites	Generally no impacts anticipated	Relatively minor impacts along corridor and at interchanges	Generally no impacts	Generally moderate controversy due to visual obstructions to businesses and aesthetic impacts	High construction cost (approximately \$190M)	Some business and residential relocations required.	50.6	
	Urban	Minor access issues for median access	May require the use of left hand entrance/exit ramps	Generally safe alternative	Requires reconstruction of most of SR 50 and MOT disruption along SR 50 during construction	No impacts anticipated	No impacts to potential contaminated sites anticipated	Generally no impacts anticipated	Relatively minor impacts along corridor and at interchanges	Generally no impacts	Generally low or minor controversy due to visual obstructions to businesses and aesthetic impacts	High construction cost (approximately \$195M)	Few business relocations and impacts	51.8	
	Urban	No significant access issues	No significant operational problems. Must be compatible with new SR 408/SR 50 interchange	Generally safe alternative	Compatible with SR 50 improvements. Relatively minor MOT disruptions expected along SR 50	No impacts anticipated	No impacts to potential contaminated sites anticipated	Some noise impacts anticipated to abutting residences	Relatively minor impacts at interchanges only	Generally no impacts	Generally moderate to high controversy due to visual obstructions to businesses and aesthetic impacts along both sides of SR 50	High construction cost (approximately \$290M)	Few business relocations and impacts	55.4	