

ALTERNATIVES SCREENING MATRIX

Evaluation Measure	Units	No Build	1	2A	2B	4
Potential Relocation Impacts						
Residential Relocations	Each	0	34	25	24	24
Business Relocations	Each	0	63	18	43	57
Community Relocations	Each	0	0	1 ^a	1 ^a	0
Other Relocations	Each	0	1 ^{b,c}	1 ^c	1 ^c	1 ^c
Potential Traffic Impacts During Construction						
		NA	Low	Low	Med	Low
Potential Frontage Impacts						
Residential Properties	Each	0	7	9	4	4
Business Properties	Each	0	27	107	52	24
Community Properties	Each	0	4	1	2	1
Vacant/Unused Structures	Each	0	70	68	78	67
Potential Underground Risk Sites						
Recognized Environmental Concerns (RECs)	Each	0	39	39	40	40
Oil and Gas Wells	Each	0	0	0	0	0
Natural Environment						
Wetlands Filled	Acres	0	0.61 ^d	1.02 ^d	0.891 ^e	0.882 ^e
Scenic Streams	Each	0	0	0	0	0
Stream Crossings	Each	0	4	4	4	4
Other Waters Filled (RPW)	Acres	0	--	--	0.511 ^e	0.562 ^e
Other Waters Filled (Non-RPW)	Acres	0	--	--	0.427 ^e	0.598 ^e
Ponds Filled	Each	0	0	0	0	0
Sole Source Aquifer Impacts	Acres	0	0	0	0	0
Floodplain Encroachment	Acres	0	8.4	9.3	7.4	7.6
Protected Species	Each	0	0	0	0	0
Prime and Unique Farmland	Acres	0				
Coastal Res./Essential Fish Habitat	Each	NA	NA	NA	NA	NA
Utilities						
LDOTD-listed Water Wells	Each	0	9 ^f	12 ^f	8 ^f	8 ^f
Cultural Resources						
Historic Properties recommended as eligible for NR Historic District	Each	0	9	12	2	0
Historic Properties recommended as NOT eligible NR Historic District	Each	0	26	21	15	12
Historic Properties recommended as eligible or listed on NR as individual	Each	0	0	1	1	0
Archaeological Sites Eligible for or Listed on NRHP	Each	0	0	0	0	0
Archaeological Sites Not Eligible for NRHP	Each	0	3	5	3	6
Noise						
Residential Receivers Design Year Noise Level > 66 dBA	Each	0	3	2	3	4
Residential Receivers Design Year Increase > 10 dBA	Each	0	2	6	6	0
Total # Impacted Receivers	Each	0	4 ^g	8	9	4
ROW Acquisition	Acres	N/A	63	67	47	55
ROW Costs ^h	\$Million	N/A	\$9.489	\$5.125	\$6.598	\$8.995
Comparison of Probable Costs by Alternative						
Construction Costs ⁱ	\$Million	N/A	\$53.157	\$51.004	\$50.051	\$54.728
Engineering (10%)	\$Million	N/A	\$5.316	\$5.100	\$5.005	\$5.473
ROW and Relocation Costs ^j	\$Million	N/A	\$17.139	\$11.121	\$12.368	\$15.556
Project Totals	\$Million	N/A	\$75.611	\$67.225	\$67.424	\$75.757

^a Church, ^b Cell Tower, ^c 74 mini-warehouses, ^d Desktop Delineation, ^e Field Delineation, ^f Water well locations from SONRIS are approximate and may be located anywhere on the parcel they are attributed to. The locations identified are either within the proposed ROW or on the property adjacent to the proposed ROW, ^g There is one receiver (E030) that experiences both types of noise impacts (i.e., absolute sound level over 66 dBA and increase over 10 dBA), ^h The estimated ROW costs include costs for land acquisition, improvements and damages only, ⁱ Construction costs include 25% contingency, ^j Includes ROW costs from Table 8, relocation costs, and soft costs