

EVALUATION MATRIX



FM 455 Feasibility Study - Preliminary Alternatives Evaluation Matrix From Dallas Parkway to Shady Brook Lane ID: A00188517

- GOOD
- NEUTRAL
- POOR

ANALYSIS MATRIX

SCREENING / EVALUATION CATEGORY		Recommended Alternative	No Build	Widening Existing Alternative	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5	Alternative 6	Alternative 7
Purpose & Need	Improve East-West Mobility	●	○	○	●	●	●	●	●	●	●
	Improve Safety	●	○	○	●	●	●	●	●	●	●
Engineering	Total Segment Length along CL (miles)	9.2	12.4	12.4	8.6	8.8	8.9	8.8	8.7	8.7	8.8
	Estimated Total Construction Cost in Millions <i>*Note: The Recommended Alternative has a significantly lower cost due to usage of already existing pavement.</i>	\$129M	\$0M	\$248M	\$172M	\$176M	\$177M	\$177M	\$173M	\$173M	\$176M
Displacements & Right-of-Way Requirements	Parcels Impacted (count)	81	0	277	74	88	99	92	82	83	86
	Residential Displacements (count)	6	0	32	1	0	2	2	3	3	3
	Future Residential Displacement (count) <i>*Currently under construction or platte is being reviewed by the city</i>	0	0	0	87	108	108	134	87	80	87
	Business Displacements (count)	0	0	19	1	0	0	0	1	1	1
	Amount of New Right-of-Way Required (acres)	65	0	73	105	138	149	131	101	104	104
	Estimated New Right-of-Way Cost in Millions	\$14.2M	\$0M	\$15.9M	\$22.9M	\$30M	\$32.4M	\$28.6M	\$22M	\$22.7M	\$22.7M
Community & Natural Resources	NWI Wetland Features (count)	6	0	7	6	9	12	12	8	9	8
	Number of Adjacent Public School Property(ies): Existing	2	1	1	2	0	0	0	2	2	2
	Impacts to Future ISD Properties (count)	0	0	0	0	1	1	2	0	1	1
Planning	Adherence to Collin County Thoroughfare Plan	●	○	○	●	○	○	○	●	●	●
	Adherence to Celina Thoroughfare Plan	●	○	○	●	○	○	○	●	●	●