ALTERNATIVES ANALYSIS

ALTERNATIVES		Evaluation Round #1										
		PURPOSE AND NEED SCREENING							FLAW ANALYSIS / IMPACTS			
		SAFETY (Calculated for the Willow Road Segment from Sunset Ridge Road to Wagner Road)		MOBILITY (Analyzed for the Willow Road at Sunset Ridge Road Intersection)				FACILITY CONDITION	Potential Displacements	Potential Property Acquisition	Potential Floodplain & Floodways	Concept Level Construction Cost *
Number	Name	Predicted Ave Crash Frequency (Crashes/Year)	Predicted Pedestrian Crash Frequency Willow Road at Sunset Ridge Road Intersection (Crashes/Year)	Intersection LOS (A thru F)	Intersection Delay (sec/veh)	Queue Length Westbound Willow Rd (feet)	Queue Length Southbound Sunset Ridge Rd (feet)	Reconstruct (Yes/No)	R-Residential B-Business O-Open Space	(acres)	(acres)	(2011 $Millions)
	No-Build	12.3	0.149	F	157	1,830	820	N	none	0.0	0.0	NA
Willow Road Alternatives												
1	No-Build Plus	8.0	0.112	F	154	1,990	550	N	none	0.0	0.0	$2
2	Willow Road 2-lane with median	Painted Median - 6.6 Curbed Median - 6.6	Painted Median - 0.112 Curbed Median/Ped Refuge - 0.049	F	151	2,220	370	Y	none	0.0	0.8	$18
2A	Willow Road 2-lane with median (2005 Plan)	6.7	0.112	F	151	2,220	370	Y	none	0.0	0.8	$14
3	Willow Road 4-lane with median	Painted Median - 13.0 Curbed Median - 6.2	Painted Median - 0.120 Curbed Median/Ped Refuge - 0.051	D/E**	65	990	400	Y	none	0.0	0.8	$23
4	Willow Road 3-lane unbalanced with median	2 Ln WB - 9.9 2 Ln EB - 9.6	2 Ln WB - 0.112 2 Ln EB - 0.116	2 Ln WB - F 2 Ln EB - F	2 Ln WB - 143 2 Ln EB - 131	2 Ln WB - 650 2 Ln EB - 2,910	2 Ln WB - 410 2 Ln EB - 410	Y	none	0.0	0.8	$20
5	Willow Road 2-lane with roundabouts	6.9	0.081	F	225	420	5,000	Y	3-R	0.6	0.8	$21
Other Parallel Route Alternatives												
6	Dundee Road Add Lanes - IL 43 to I-94	12.2	—	F	157	1,990	550	N	1-R 2-B	4.5	0.6	$51
7	Lake Avenue Add Lanes - IL 43 to I-94	12.0	—	F	145	1,840	550	N	5-R 8-B	4.3	0.2	$55
Interchange Alternatives												
8	Full Interchange I-294 at Lake Avenue	12.8	—	F	169	2,150	550	N	147-R 7-B 1-O (cemetery)	28.2	0.0	$60
9	Full Interchange I-294 at Dundee Road	12.2	—	F	157	1,990	550	N	5-R 3-B	7.7	0.0	$75
10	Full Interchange I-94 (Edens Spur) at I-294	12.8	—	F	162	2,150	550	N	10-R 4-B	9.9	0.0	$57
11	Full Interchange I-94 (Edens Spur) at IL 43	12.2	—	F	157	1,990	550	N	7-R 17-B	4.8	0.0	$27
12	Eliminate Eastbound Lane drop on Edens Spur	12.8	—	F	169	2,150	550	N	7-B	8.1	3.9	$38
13	Full Interchange I-94 at Dundee Road	12.2	—	F	164	1,990	550	N	none	6.8	4.9	$133
14	Full Interchange I-94 at Tower Road	12.8	—	F	169	2,150	550	N	none	2.6	5.9	$44
15	Full Interchange I-94 at Willow Road	12.5	—	F	162	2,150	550	N	4-B	7.4	22.3	$52
16	Full Interchange I-94 at Lake Avenue	12.2	—	F	157	1,990	550	N	55-R 4-B	6.3	0.0	$59

*Does not include land acquisitions, relocations, mitigation and engineering costs

**Willow Road through movements are LOS D through the year 2040; the Intersection LOS D is achieved through the year 2035 with an Intersection Delay = 51 sec/veh, Queue Length WB = 910 feet, Queue Length SB = 380 feet

Willow Road FUTURE
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