

Appendix C
Round 1 - Conceptual Level Construction Cost Estimates

Round 1

April 7, 2011

Draft Summary of Conceptual Level Construction Costs (2011 Dollars)

Willow Road Study (IL 43 to I-94)

	Alternative / Exhibit	Description	Length (ft)	Improvement Items (in \$ Million)					Subtotal (in \$ Million)	Contingency	Total Cost (in \$ Million)
				Road	Interchange Ramps	Bridges	Walls	Signals			
Willow Road Alts	1	No-Build Plus		\$0.3				\$1.2	\$1.5	25%	\$2
	2	Willow Road 2-lane with median	6,960	\$10.1		\$2.0	\$1.1	\$1.2	\$14.4	25%	\$18
	2A	Willow Road 2-lane with median (2005 Plan)	6,000	\$7.3		\$2.0	\$1.1	\$0.6	\$11.0	25%	\$14
	3	Willow Road 4-lane with median	7,220	\$13.7		\$2.0	\$1.1	\$1.2	\$18.0	25%	\$23
	4	Willow Road 3-lane unbalanced with median	7,220	\$11.7		\$2.0	\$1.1	\$1.2	\$16.0	25%	\$20
Other Parallel Routes	5	Willow Road 2-lane with roundabouts	5,300	\$12.8		\$2.0	\$1.0	\$0.6	\$16.4	25%	\$21
	6	Dundee Road Add Lanes - IL 43 to I-94	11,100	\$29.5		\$7.5	\$2.0	\$1.2	\$40.2	25%	\$51
Interchange Alts	7	Lake Avenue Add Lanes - IL 43 to I-94	11,420	\$30.5		\$11.5	\$0	\$1.5	\$43.5	25%	\$55
	8	Full Interchange I-294 at Lake Avenue	10,320	\$19.6	\$11.6	\$14.7	\$0	\$1.5	\$47.4	25%	\$60
	9	Full Interchange I-294 at Dundee Road	5,990	\$11.4	\$12.0	\$24.4	\$11.3	\$0.6	\$59.7	25%	\$75
	10	Full Interchange I-94 (Edens Spur) at I-294	0	\$0	\$11.9	\$27.3	\$6.3	\$0	\$45.5	25%	\$57
	11	Full Interchange I-94 (Edens Spur) at IL 43	0	\$0	\$9.0	\$7.5	\$4.0	\$0.6	\$21.1	25%	\$27
	12	Eliminate Eastbound Lane drop on Edens Spur	0	\$0	\$13.0	\$16.8	\$0	\$0	\$29.8	25%	\$38
	13	Full Interchange I-94 at Dundee Road	4,610	\$8.8	\$29.9	\$39.6	\$27.5	\$0.6	\$106.4	25%	\$133
	14	Full Interchange I-94 at Tower Road	2,230	\$2.6	\$12.0	\$6.0	\$13.9	\$0.6	\$35.1	25%	\$44
	15	Full Interchange I-94 at Willow Road	2,290	\$4.4	\$12.0	\$11.1	\$13.2	\$0.6	\$41.3	25%	\$52
	16	Full Interchange I-94 at Lake Avenue	6,320	\$12.0	\$12.0	\$12.4	\$9.2	\$1.2	\$46.8	25%	\$59
Corridor Specific Options	17	Longer Entrance Ramp EB Willow to SB I-94 Option		\$0.6	\$3.0	\$0	\$0	\$0.6	\$4.2	25%	\$6
	18	Pedestrian Friendly Modifications I-94 at Willow Road Option		\$0.6	\$2.9	\$5.9	\$0	\$0.9	\$10.3	25%	\$13
	19	Willow Road at IL 43 Intersection Improvements Option	3,600	\$6.9	\$0	\$0	\$0	\$0.3	\$7.2	25%	\$9

Key Assumptions:

1. All roadways and bridges are reconstructed
2. \$10 million per mile for new 5-lane roadway prorated based on number of lanes
3. \$3 million per ramp that is a conventional SPUI interchange ramp
4. \$5 million per mile for interchange ramps that are not conventional SPUI interchange ramps
5. Bridges: \$250/square feet for first level bridges, \$325/square feet for second level bridges
6. Retaining walls: \$150/square feet for walls ≤ 10 feet, \$200/square feet for walls > 10 feet
7. Traffic signals: \$300,000 each, includes interconnect and temporary signals where applicable
8. Does not include any costs for utility relocations, land acquisition, relocations, detention, environmental mitigation, or engineering
9. Contingency provides for potential items to be determined in future design studies

PRELIMINARY ESTIMATE OF COST
Alternative 1 - Willow Road No-Build Plus
Corresponds to Exhibit 1
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
Bracken Cul de Sac	\$100	SQ YD	390	\$ 39,000
Connect Bracken to Jeffery	\$100	SQ YD	830	\$ 83,000
Eaton Cul de Sac	\$100	SQ YD	390	\$ 39,000
Dickens Cul de Sac	\$100	SQ YD	390	\$ 39,000
Churchill Right-In Right-Out	\$100	SQ YD	270	\$ 27,000
			Subtotal:	\$ 227,000
			Say:	\$ 300,000
Bridges				
No Bridges			0	\$ -
			Subtotal:	\$ -
			Say:	\$ -
Walls				
No Retaining Walls			0	\$ -
			Subtotal:	\$ -
			Say:	\$ -
Signals				
Sunset Ridge Road	\$300,000	EACH	1	\$ 300,000
Wagner Road	\$300,000	EACH	1	\$ 300,000
Northfield Road/Old Willow Road	\$300,000	EACH	1	\$ 300,000
Happ Road/Central Avenue	\$300,000	EACH	1	\$ 300,000
			Subtotal:	\$ 1,200,000
			Say:	\$ 1,200,000
Construction Subtotal				\$ 1,500,000
Contingency	25%	of Construction		\$ 375,000
TOTAL ESTIMATED COST:				<u>\$ 2,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions
2. \$100 per square yard for roadway modifications based on minor roadway improvements

PRELIMINARY ESTIMATE OF COST
Alternative 2 - Willow Road 2-Lane with Median
Corresponds to Exhibit 2
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
Reconstruct 2 Lanes to 3 Lanes (3,300')	\$6,000,000	MILE	0.63	\$ 3,750,000
Reconstruct 3 Lanes to 4 Lanes (1,660')	\$8,000,000	MILE	0.31	\$ 2,516,000
Reconstruct 5 Lanes (2,000')	\$10,000,000	MILE	0.38	\$ 3,788,000
			Subtotal:	\$ 10,054,000
			Say:	\$ 10,100,000
Bridges				
Willow Road over Middle Fork North Branch of the Chicago River	\$250	SQ FT	7,900	\$ 1,975,000
			Subtotal:	\$ 1,975,000
			Say:	\$ 2,000,000
Walls				
North Side at Bridge over Chicago River - 6' Avg. Height	\$150	SQ FT	700	\$ 105,000
South Side at Bridge over Chicago River - 12' Avg. Height	\$200	SQ FT	3,800	\$ 760,000
West of Wagner Road on South Side - 6' Avg. Height	\$150	SQ FT	300	\$ 45,000
West of Bristol Street on South Side - 3' Avg. Height	\$150	SQ FT	900	\$ 135,000
			Subtotal:	\$ 1,045,000
			Say:	\$ 1,100,000
Signals				
Three Lakes Drive	\$300,000	EACH	1	\$ 300,000
Sunset Ridge Road	\$300,000	EACH	1	\$ 300,000
Wagner Road	\$300,000	EACH	1	\$ 300,000
Northfield Road/Old Willow Road	\$300,000	EACH	1	\$ 300,000
			Subtotal:	\$ 1,200,000
			Say:	\$ 1,200,000
Construction Subtotal				\$ 14,400,000
Contingency	25%	of Construction		\$ 3,600,000
			TOTAL ESTIMATED COST:	<u>\$ 18,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions

PRELIMINARY ESTIMATE OF COST
Alternative 2A - Willow Road 2-Lane with Median (2005 Plan)
Corresponds to Exhibit 2A
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
Reconstruct 2 Lanes to 3 Lanes (1,400')	\$6,000,000	MILE	0.27	\$ 1,591,000
Reconstruct 2 Lanes to 4 Lanes (520')	\$8,000,000	MILE	0.10	\$ 788,000
Reconstruct 3 Lanes to 4 Lanes (370')	\$8,000,000	MILE	0.07	\$ 561,000
Reconstruct 2 Lanes (1,380')	\$4,000,000	MILE	0.26	\$ 1,046,000
Reconstruct 3 Lanes (1,550')	\$6,000,000	MILE	0.29	\$ 1,762,000
Reconstruct 4 Lanes (350')	\$10,000,000	MILE	0.07	\$ 663,000
Reconstruct 5 Lanes (430')	\$10,000,000	MILE	0.08	\$ 815,000
			Subtotal:	\$ 7,226,000
			Say:	\$ 7,300,000
Bridges				
Willow Road over Middle Fork North Branch of the Chicago River	\$250	SQ FT	7,900	\$ 1,975,000
			Subtotal:	\$ 1,975,000
			Say:	\$ 2,000,000
Walls				
North Side at Bridge over Chicago River - 6' Avg. Height	\$150	SQ FT	700	\$ 105,000
South Side at Bridge over Chicago River - 12' Avg. Height	\$200	SQ FT	3,800	\$ 760,000
West of Wagner Road on South Side - 6' Avg. Height	\$150	SQ FT	300	\$ 45,000
West of Bristol Street on South Side - 3' Avg. Height	\$150	SQ FT	900	\$ 135,000
			Subtotal:	\$ 1,045,000
			Say:	\$ 1,100,000
Signals				
Sunset Ridge Road	\$300,000	EACH	1	\$ 300,000
Wagner Road	\$300,000	EACH	1	\$ 300,000
			Subtotal:	\$ 600,000
			Say:	\$ 600,000
Construction Subtotal				\$ 11,000,000
Contingency	25%	of Construction		\$ 2,750,000
			TOTAL ESTIMATED COST:	<u>\$ 14,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions

PRELIMINARY ESTIMATE OF COST
Alternative 3 - Willow Road 4-Lane with Median
Corresponds to Exhibit 3
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
Reconstruct 2 Lanes to 5 Lanes (3,300')	\$10,000,000	MILE	0.63	\$ 6,250,000
Reconstruct 3 Lanes to 5 Lanes (1,920')	\$10,000,000	MILE	0.36	\$ 3,637,000
Reconstruct 5 Lanes (2,000')	\$10,000,000	MILE	0.38	\$ 3,788,000
			Subtotal:	\$ 13,675,000
			Say:	\$ 13,700,000
Bridges				
Willow Road over Middle Fork North Branch of the Chicago River	\$250	SQ FT	7,900	\$ 1,975,000
			Subtotal:	\$ 1,975,000
			Say:	\$ 2,000,000
Walls				
North Side at Bridge over Chicago River - 6' Avg. Height	\$150	SQ FT	700	\$ 105,000
South Side at Bridge over Chicago River - 12' Avg. Height	\$200	SQ FT	3,800	\$ 760,000
West of Wagner Road on South Side - 6' Avg. Height	\$150	SQ FT	300	\$ 45,000
West of Bristol Street on South Side - 3' Avg. Height	\$150	SQ FT	900	\$ 135,000
			Subtotal:	\$ 1,045,000
			Say:	\$ 1,100,000
Signals				
Three Lakes Drive	\$300,000	EACH	1	\$ 300,000
Sunset Ridge Drive	\$300,000	EACH	1	\$ 300,000
Wagner Road	\$300,000	EACH	1	\$ 300,000
Northfield Road/Old Willow Road	\$300,000	EACH	1	\$ 300,000
			Subtotal:	\$ 1,200,000
			Say:	\$ 1,200,000
Construction Subtotal				\$ 18,000,000
Contingency	25%	of Construction		\$ 4,500,000
			TOTAL ESTIMATED COST:	<u>\$ 23,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions

PRELIMINARY ESTIMATE OF COST
Alternative 4 - Willow Road Unbalanced Lanes with Median
Corresponds to Exhibit 4
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
Reconstruct 2 Lanes to 4 Lanes (3,300')	\$8,000,000	MILE	0.63	\$ 5,000,000
Reconstruct 3 Lanes to 4 Lanes (1,920')	\$8,000,000	MILE	0.36	\$ 2,910,000
Reconstruct 5 Lanes (2,000')	\$10,000,000	MILE	0.38	\$ 3,788,000
			Subtotal:	\$ 11,698,000
			Say:	\$ 11,700,000
Bridges				
Willow Road over Middle Fork North Branch of the Chicago River	\$250	SQ FT	7,900	\$ 1,975,000
			Subtotal:	\$ 1,975,000
			Say:	\$ 2,000,000
Walls				
North Side at Bridge over Chicago River - 6' Avg. Height	\$150	SQ FT	700	\$ 105,000
South Side at Bridge over Chicago River - 12' Avg. Height	\$200	SQ FT	3,800	\$ 760,000
West of Wagner Road on South Side - 6' Avg. Height	\$150	SQ FT	300	\$ 45,000
West of Bristol Street on South Side - 3' Avg. Height	\$150	SQ FT	900	\$ 135,000
			Subtotal:	\$ 1,045,000
			Say:	\$ 1,100,000
Signals				
Three Lakes Drive	\$300,000	EACH	1	\$ 300,000
Sunset Ridge Drive	\$300,000	EACH	1	\$ 300,000
Wagner Road	\$300,000	EACH	1	\$ 300,000
Northfield Road/Old Willow Road	\$300,000	EACH	1	\$ 300,000
			Subtotal:	\$ 1,200,000
			Say:	\$ 1,200,000
Construction Subtotal				\$ 16,000,000
Contingency	25%	of Construction		\$ 4,000,000
			TOTAL ESTIMATED COST:	<u>\$ 20,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions

PRELIMINARY ESTIMATE OF COST
Alternative 5 - Willow Road 2-Lane with Roundabouts
Corresponds to Exhibit 5
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
Reconstruct 2 Lanes to 3 Lanes (3,300')	\$6,000,000	MILE	0.63	\$ 3,750,000
Reconstruct 5 Lanes (2,000')	\$10,000,000	MILE	0.38	\$ 3,788,000
Roundabout at Sunset Ridge Road	\$285	SQ YD	9,080	\$ 2,588,000
Roundabout at Wagner Road	\$285	SQ YD	9,080	\$ 2,588,000
			Subtotal:	\$ 12,714,000
			Say:	\$ 12,800,000
Bridges				
Willow Road over Middle Fork North Branch of the Chicago River	\$250	SQ FT	7,900	\$ 1,975,000
			Subtotal:	\$ 1,975,000
			Say:	\$ 2,000,000
Walls				
North Side at Bridge over Chicago River - 6' Avg. Height	\$150	SQ FT	700	\$ 105,000
South Side at Bridge over Chicago River - 12' Avg. Height	\$200	SQ FT	3,800	\$ 760,000
West of Bristol Street on South Side - 3' Avg. Height	\$150	SQ FT	300	\$ 45,000
			Subtotal:	\$ 910,000
			Say:	\$ 1,000,000
Signals				
Three Lakes Drive	\$300,000	EACH	1	\$ 300,000
Northfield Road/Old Willow Road	\$300,000	EACH	1	\$ 300,000
			Subtotal:	\$ 600,000
			Say:	\$ 600,000
Construction Subtotal				\$ 16,400,000
Contingency	25%	of Construction		\$ 4,100,000
TOTAL ESTIMATED COST:				<u>\$ 21,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions
2. \$285 per square yard for roundabout improvements based on prorated \$10 million per mile cost

PRELIMINARY ESTIMATE OF COST
Alternative 6 - Dundee Road - Add Lanes - IL 43 to I-94
Corresponds to Exhibit 6
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
Reconstruct Dundee Road 5 Lanes to 6 Lanes (1,420')	\$12,000,000	MILE	0.27	\$ 3,228,000
Reconstruct Dundee Road 5 Lanes to 7 Lanes (8,280')	\$14,000,000	MILE	1.57	\$ 21,955,000
Reconstruct Dundee Road 6 Lanes to 8 Lanes (1,400')	\$16,000,000	MILE	0.27	\$ 4,243,000
			Subtotal:	\$ 29,426,000
			Say:	\$ 29,500,000
Bridges				
Dundee Road over Edens Expressway (I-94)	\$250	SQ FT	29,700	\$ 7,425,000
			Subtotal:	\$ 7,425,000
			Say:	\$ 7,500,000
Walls				
North Side of Dundee Road Just West of Lee Road - 14' Avg. Height	\$200	SQ FT	2,500	\$ 500,000
South Side of Dundee Road from Lee Road to Shermer Road - 14' Avg. Height	\$200	SQ FT	7,500	\$ 1,500,000
			Subtotal:	\$ 2,000,000
			Say:	\$ 2,000,000
Signals				
Waukegan Road (IL 43)	\$300,000	EACH	1	\$ 300,000
Shermer Road	\$300,000	EACH	1	\$ 300,000
Midway Road	\$300,000	EACH	1	\$ 300,000
Skokie Boulevard	\$300,000	EACH	1	\$ 300,000
			Subtotal:	\$ 1,200,000
			Say:	\$ 1,200,000
Construction Subtotal				\$ 40,200,000
Contingency		25%	of Construction	\$ 10,050,000
			TOTAL ESTIMATED COST:	<u>\$ 51,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions

PRELIMINARY ESTIMATE OF COST
Alternative 7 - Lake Avenue - Add Lanes - IL 43 to I-94
Corresponds to Exhibit 7
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
Reconstruct Lake Avenue 4 Lanes to 7 Lanes (6,440')	\$14,000,000	MILE	1.22	\$ 17,076,000
Reconstruct Lake Avenue 5 Lanes to 6 Lanes (370')	\$12,000,000	MILE	0.07	\$ 841,000
Reconstruct Lake Avenue 5 Lanes to 7 Lanes (3,870')	\$14,000,000	MILE	0.73	\$ 10,262,000
Reconstruct Lake Avenue 6 Lanes to 8 Lanes (740')	\$16,000,000	MILE	0.14	\$ 2,243,000
			Subtotal:	\$ 30,422,000
			Say:	\$ 30,500,000
Bridges				
Lake Avenue over North Branch Chicago River	\$250	SQ FT	15,700	\$ 3,925,000
Lake Avenue over Edens Expressway (I-94)	\$250	SQ FT	23,400	\$ 5,850,000
Pedestrian/Bicycle Overpass Bridge Replacement	\$215	SQ FT	7,900	\$ 1,699,000
			Subtotal:	\$ 11,474,000
			Say:	\$ 11,500,000
Walls				
No Retaining Walls			0	\$ -
			Subtotal:	\$ -
			Say:	\$ -
Signals				
Waukegan Road (IL 43)	\$300,000	EACH	1	\$ 300,000
Sunset Ridge Road	\$300,000	EACH	1	\$ 300,000
Wagner Road	\$300,000	EACH	1	\$ 300,000
Harms Road	\$300,000	EACH	1	\$ 300,000
Laramie Avenue	\$300,000	EACH	1	\$ 300,000
			Subtotal:	\$ 1,500,000
			Say:	\$ 1,500,000
Construction Subtotal				\$ 43,500,000
Contingency	25%	of Construction		\$ 10,875,000
			TOTAL ESTIMATED COST:	<u>\$ 55,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions
2. \$215 per square foot cost for pedestrian/bicycle bridge is based on less steel and concrete required for bridge.

PRELIMINARY ESTIMATE OF COST
Alternative 8 - Full Interchange I-294 at Lake Avenue
Corresponds to Exhibit 8
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
Reconstruct Lake Avenue (8,170')	\$10,000,000	MILE	1.55	\$ 15,474,000
Reconstruct Milwaukee Avenue (2,150')	\$10,000,000	MILE	0.41	\$ 4,072,000
			Subtotal: \$	19,546,000
			Say: \$	19,600,000
Interchange Ramps				
Entrance Ramp from Lake Avenue to Northbound I-294	\$5,000,000	MILE	0.6	\$ 3,156,000
Exit Ramp from Northbound I-294 to Lake Avenue	\$5,000,000	MILE	0.5	\$ 2,377,000
I-294 at Lake Avenue Interchange (Includes 2 Ramps)	\$3,000,000	EACH	2	\$ 6,000,000
			Subtotal: \$	11,533,000
			Say: \$	11,600,000
Bridges				
I-294 over Milwaukee Avenue	\$250	SQ FT	22,000	\$ 5,500,000
I-294 over Lake Avenue	\$250	SQ FT	36,500	\$ 9,125,000
			Subtotal: \$	14,625,000
			Say: \$	14,700,000
Walls				
No Retaining Walls			0	\$ -
			Subtotal: \$	-
			Say: \$	-
Signals				
Lake Avenue at Milwaukee Avenue (IL 21)	\$300,000	EACH	1	\$ 300,000
Lake Avenue at Southbound I-294 Ramps	\$300,000	EACH	1	\$ 300,000
Lake Avenue at Northbound I-294 Ramps	\$300,000	EACH	1	\$ 300,000
Lake Avenue at Landwehr Road	\$300,000	EACH	1	\$ 300,000
Lake Avenue at Robin Lane	\$300,000	EACH	1	\$ 300,000
			Subtotal: \$	1,500,000
			Say: \$	1,500,000
Construction Subtotal				\$ 47,400,000
Contingency	25%	of Construction		\$ 11,850,000
			TOTAL ESTIMATED COST:	<u><u>\$ 60,000,000</u></u>

Notes:

1. See Summary Sheet for Key Assumptions

PRELIMINARY ESTIMATE OF COST
Alternative 9 - Full Interchange I-294 at Dundee Road
Corresponds to Exhibit 9
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
Reconstruct Dundee Road (4,170')	\$10,000,000	MILE	0.79	\$ 7,898,000
Reconstruct Sanders Road (1,820')	\$10,000,000	MILE	0.34	\$ 3,430,000
			Subtotal:	\$ 11,328,000
			Say:	\$ 11,400,000
Interchange Ramps				
I-294 at Dundee Road Interchange (Includes 4 Ramps)	\$3,000,000	EACH	4	\$ 12,000,000
			Subtotal:	\$ 12,000,000
			Say:	\$ 12,000,000
Bridges				
Dundee Road over I-294	\$250	SQ FT	57,200	\$ 14,300,000
I-294 over Sanders Road	\$250	SQ FT	40,100	\$ 10,025,000
			Subtotal:	\$ 24,325,000
			Say:	\$ 24,400,000
Walls				
Southbound Exit Ramp - 14' Avg. Height	\$200	SQ FT	12,400	\$ 2,480,000
Southbound Entrance Ramp - 14' Avg. Height	\$200	SQ FT	15,400	\$ 3,080,000
Northbound Exit Ramp - 14' Avg. Height	\$200	SQ FT	15,400	\$ 3,080,000
Northbound Entrance Ramp - 14' Avg. Height	\$200	SQ FT	13,300	\$ 2,660,000
			Subtotal:	\$ 11,300,000
			Say:	\$ 11,300,000
Signals				
Dundee Road at Sanders Road	\$300,000	EACH	1	\$ 300,000
I-294 Interchange Ramps at Dundee Road	\$300,000	EACH	1	\$ 300,000
			Subtotal:	\$ 600,000
			Say:	\$ 600,000
Construction Subtotal				\$ 59,700,000
Contingency	25%	of Construction		\$ 14,925,000
TOTAL ESTIMATED COST:				<u>\$ 75,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions

PRELIMINARY ESTIMATE OF COST
Alternative 10 - Full Interchange I-94 (Edens Spur) to I-294
Corresponds to Exhibit 10
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
No Roadway Construction			0	\$ -
			Subtotal:	\$ -
			Say:	\$ -
Interchange Ramps				
I-94 Westbound Exit Ramp to Bridge	\$5,000,000	MILE	0.7	\$ 3,504,000
I-294 Entrance Ramp from Bridge to Southbound I-294	\$5,000,000	MILE	0.6	\$ 2,936,000
Northbound I-294 Exit Ramp to Eastbound I-94	\$5,000,000	MILE	0.7	\$ 3,694,000
I-294 Entrance Ramp Traveling North (2-Lane Ramp)	\$7,500,000	MILE	0.2	\$ 1,705,000
			Subtotal:	\$ 11,839,000
			Say:	\$ 11,900,000
Bridges				
Northbound I-294 to Eastbound I-94	\$250	SQ FT	37,800	\$ 9,450,000
Westbound I-94 to Southbound I-294	\$325	SQ FT	54,900	\$ 17,843,000
			Subtotal:	\$ 27,293,000
			Say:	\$ 27,300,000
Walls				
Westbound I-94 Exit Ramp - 14' Avg. Height	\$200	SQ FT	31,100	\$ 6,220,000
			Subtotal:	\$ 6,220,000
			Say:	\$ 6,300,000
Signals				
No Signalized Intersections			0	\$ -
			Subtotal:	\$ -
			Say:	\$ -
Construction Subtotal				\$ 45,500,000
Contingency	25%	of Construction		\$ 11,375,000
TOTAL ESTIMATED COST:				<u>\$ 57,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions

PRELIMINARY ESTIMATE OF COST
Alternative 11 - Full Interchange I-94 (Edens Spur) at IL 43
Corresponds to Exhibit 11
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
No Roadway Construction			0	\$ -
			Subtotal:	\$ -
			Say:	\$ -
Interchange Ramps				
I-94 at IL 43 Interchange (Includes 3 Ramps)	\$3,000,000	EACH	3	\$ 9,000,000
			Subtotal:	\$ 9,000,000
			Say:	\$ 9,000,000
Bridges				
IL 43 over I-94	\$250	SQ FT	29,800	\$ 7,450,000
			Subtotal:	\$ 7,450,000
			Say:	\$ 7,500,000
Walls				
Eastbound I-94 Entrance Ramp - 14' Avg. Height	\$200	SQ FT	19,600	\$ 3,920,000
			Subtotal:	\$ 3,920,000
			Say:	\$ 4,000,000
Signals				
Waukegan Road (IL 43) at Westbound I-94 Ramps	\$300,000	EACH	1	\$ 300,000
Waukegan Road (IL 43) at Eastbound I-94 Ramps	\$300,000	EACH	1	\$ 300,000
			Subtotal:	\$ 600,000
			Say:	\$ 600,000
Construction Subtotal				\$ 21,100,000
Contingency	25%	of Construction		\$ 5,275,000
TOTAL ESTIMATED COST:				<u>\$ 27,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions

PRELIMINARY ESTIMATE OF COST
Alternative 12 - Eliminate Eastbound Lane Drop at Edens Spur
Corresponds to Exhibit 12
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
No Roadway Construction			0	\$ -
			Subtotal:	\$ -
			Say:	\$ -
Interchange Ramps				
Eastbound to Southbound Edens Spur	\$5,000,000	MILE	1.9	\$ 9,612,000
Westbound Dundee Road Loop Ramp to Southbound Edens Spur	\$5,000,000	MILE	0.4	\$ 1,847,000
Eastbound Dundee Road Entrance Ramp to Southbound Edens Spur	\$5,000,000	MILE	0.3	\$ 1,516,000
			Subtotal:	\$ 12,975,000
			Say:	\$ 13,000,000
Bridges				
Dundee Road over U.S. 41	\$250	SQ FT	28,500	\$ 7,125,000
Edens Spur over Railroad	\$250	SQ FT	27,300	\$ 6,825,000
Edens Spur over Skokie Boulevard	\$250	SQ FT	11,400	\$ 2,850,000
			Subtotal:	\$ 16,800,000
			Say:	\$ 16,800,000
Walls				
No Retaining Walls			0	\$ -
			Subtotal:	\$ -
			Say:	\$ -
Signals				
No Signalized Intersections			0	\$ -
			Subtotal:	\$ -
			Say:	\$ -
Construction Subtotal				\$ 29,800,000
Contingency	25%	of Construction	\$	7,450,000
TOTAL ESTIMATED COST:				<u>\$ 38,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions

PRELIMINARY ESTIMATE OF COST
Alternative 13 - Full Interchange I-94 At Dundee Road
Corresponds to Exhibit 13
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
Reconstruct Dundee Road (2,800')	\$10,000,000	MILE	0.53	\$ 5,300,000
Reconstruct Skokie Boulevard (1,810')	\$10,000,000	MILE	0.34	\$ 3,421,000
			Subtotal:	\$ 8,721,000
			Say:	\$ 8,800,000
Interchange Ramps				
Southbound Slip Ramp	\$5,000,000	MILE	1.4	\$ 6,819,000
Southbound Slip Ramp (2-Lane)	\$7,500,000	MILE	0.6	\$ 4,262,000
Southbound Ramp from US 41 to I-94	\$5,000,000	MILE	0.5	\$ 2,747,000
Entrance Ramp from Dundee Road to Northbound US 41	\$5,000,000	MILE	0.8	\$ 3,978,000
I-94 at Dundee Road (Includes 4 Ramps)	\$3,000,000	EACH	4	\$ 12,000,000
			Subtotal:	\$ 29,806,000
			Say:	\$ 29,900,000
Bridges				
Dundee Road over U.S. 41	\$250	SQ FT	86,100	\$ 21,525,000
SPUI Ramp Bridge	\$250	SQ FT	26,800	\$ 6,700,000
I-94 Ramp Over RR	\$250	SQ FT	23,200	\$ 5,800,000
I-94 Eastbound Ramp over Skokie Boulevard	\$250	SQ FT	10,300	\$ 2,575,000
I-94 Westbound Ramp Over Skokie Boulevard	\$250	SQ FT	11,900	\$ 2,975,000
			Subtotal:	\$ 39,575,000
			Say:	\$ 39,600,000
Walls				
Southbound Entrance Ramp (West Side Slip Ramp) - 14' Avg. Height	\$200	SQ FT	65,200	\$ 13,040,000
Southbound Entrance Ramp from Dundee Road (West) - 14' Avg. Height	\$200	SQ FT	7,200	\$ 1,440,000
Southbound Entrance Ramp from Dundee Road (East) - 14' Avg. Height	\$200	SQ FT	18,300	\$ 3,660,000
Northbound Exit Ramp (West) - 14' Avg. Height	\$200	SQ FT	8,800	\$ 1,760,000
Northbound Entrance Ramp (West) - 14' Avg. Height	\$200	SQ FT	9,800	\$ 1,960,000
Southbound Exit Ramp (East) - 14' Avg. Height	\$200	SQ FT	18,800	\$ 3,760,000
Southbound Exit Ramp (West) - 14' Avg. Height	\$200	SQ FT	9,400	\$ 1,880,000
			Subtotal:	\$ 27,500,000
			Say:	\$ 27,500,000
Signals				
Dundee Road at Skokie Boulevard	\$300,000	EACH	1	\$ 300,000
Dundee Road over Edens Expressway	\$300,000	EACH	1	\$ 300,000
			Subtotal:	\$ 600,000
			Say:	\$ 600,000
Construction Subtotal				\$ 106,400,000
Contingency		25%	of Construction	\$ 26,600,000
TOTAL ESTIMATED COST:				<u>\$ 133,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions

PRELIMINARY ESTIMATE OF COST
Alternative 14 - Full Interchange I-94 at Tower Road
Corresponds to Exhibit 14
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
Reconstruct Tower Road (3 Lanes, 1,180')	\$6,000,000	MILE	0.22	\$ 1,336,000
Reconstruct Frontage Road (3 Lanes, 1,050')	\$6,000,000	MILE	0.20	\$ 1,194,000
			Subtotal:	\$ 2,530,000
			Say:	\$ 2,600,000
Interchange Ramps				
I-94 at Tower Road (Includes 4 Ramps)	\$3,000,000	EACH	4	\$ 12,000,000
			Subtotal:	\$ 12,000,000
			Say:	\$ 12,000,000
Bridges				
Tower Road over U.S. 41	\$250	SQ FT	23,900	\$ 5,975,000
			Subtotal:	\$ 5,975,000
			Say:	\$ 6,000,000
Walls				
Southbound Entrance Ramp - 14' Avg. Height	\$200	SQ FT	19,600	\$ 3,920,000
Southbound Exit Ramp - 14' Avg. Height	\$200	SQ FT	13,500	\$ 2,700,000
Northbound Exit Ramp - 14' Avg. Height	\$200	SQ FT	17,200	\$ 3,440,000
Northbound Entrance Ramp - 14' Avg. Height	\$200	SQ FT	19,100	\$ 3,820,000
			Subtotal:	\$ 13,880,000
			Say:	\$ 13,900,000
Signals				
Tower Road at Skokie Boulevard	\$300,000	EACH	1	\$ 300,000
Tower Road over Edens Expressway	\$300,000	EACH	1	\$ 300,000
			Subtotal:	\$ 600,000
			Say:	\$ 600,000
Construction Subtotal				\$ 35,100,000
Contingency	25%	of Construction		\$ 8,775,000
TOTAL ESTIMATED COST:				<u>\$ 44,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions

PRELIMINARY ESTIMATE OF COST
Alternative 15 - Full Interchange I-94 at Willow Road
Corresponds to Exhibit 15
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
Reconstruct Willow Road (5 Lanes, 2,290')	\$10,000,000	MILE	0.43	\$ 4,332,000
			Subtotal:	\$ 4,332,000
			Say:	\$ 4,400,000
Interchange Ramps				
I-94 at Willow Road (Includes 4 Ramps)	\$3,000,000	EACH	4	\$ 12,000,000
			Subtotal:	\$ 12,000,000
			Say:	\$ 12,000,000
Bridges				
Willow Road over I-94	\$250	SQ FT	34,600	\$ 8,650,000
Winnetka Road over I-94	\$250	SQ FT	9,800	\$ 2,450,000
			Subtotal:	\$ 11,100,000
			Say:	\$ 11,100,000
Walls				
Southbound Entrance Ramp (East) - 14' Avg. Height	\$200	SQ FT	14,700	\$ 2,940,000
Southbound Exit Ramp (West) - 14' Avg. Height	\$200	SQ FT	12,100	\$ 2,420,000
Southbound Exit Ramp (East) - 14' Avg. Height	\$200	SQ FT	11,200	\$ 2,240,000
Northbound Exit Ramp (West) - 14' Ave Height	\$200	SQ FT	14,000	\$ 2,800,000
Northbound Entrance Ramp - 14' Avg. Height	\$200	SQ FT	14,000	\$ 2,800,000
			Subtotal:	\$ 13,200,000
			Say:	\$ 13,200,000
Signals				
Willow Road at Skokie Boulevard	\$300,000	EACH	1	\$ 300,000
Willow Road over Edens Expressway	\$300,000	EACH	1	\$ 300,000
			Subtotal:	\$ 600,000
			Say:	\$ 600,000
Construction Subtotal				\$ 41,300,000
Contingency	25%	of Construction		\$ 10,325,000
TOTAL ESTIMATED COST:				<u>\$ 52,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions

PRELIMINARY ESTIMATE OF COST
Alternative 16 - Full Interchange I-94 at Lake Avenue
Corresponds to Exhibit 16
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
Reconstruct Lake Avenue (5 Lanes, 4,340')	\$10,000,000	MILE	0.82	\$ 8,213,000
Reconstruct Skokie Boulevard (5 Lanes, 1,980')	\$10,000,000	MILE	0.37	\$ 3,741,000
			Subtotal: \$	11,954,000
			Say: \$	12,000,000
Interchange Ramps				
I-94 at Lake Avenue (Includes 4 Ramps)	\$3,000,000	EACH	4	\$ 12,000,000
			Subtotal: \$	12,000,000
			Say: \$	12,000,000
Bridges				
Lake Avenue over I-94	\$250	SQ FT	39,800	\$ 9,950,000
US 41 Ramp over I-94	\$250	SQ FT	9,600	\$ 2,400,000
			Subtotal: \$	12,350,000
			Say: \$	12,400,000
Walls				
Southbound Entrance Ramp - 14' Avg. Height	\$200	SQ FT	13,900	\$ 2,780,000
Southbound Exit Ramp - 14' Avg. Height	\$200	SQ FT	8,800	\$ 1,760,000
Northbound Exit Ramp - 14' Ave Height	\$200	SQ FT	9,100	\$ 1,820,000
Northbound Entrance Ramp - 14' Avg. Height	\$200	SQ FT	14,200	\$ 2,840,000
			Subtotal: \$	9,200,000
			Say: \$	9,200,000
Signals				
Lake Avenue at Laramie Avenue	\$300,000	EACH	1	\$ 300,000
Lake Avenue over Edens Expressway	\$300,000	EACH	1	\$ 300,000
Lake Avenue at Skokie Boulevard	\$300,000	EACH	1	\$ 300,000
Lake Avenue at Hibbard Road	\$300,000	EACH	1	\$ 300,000
			Subtotal: \$	1,200,000
			Say: \$	1,200,000
Construction Subtotal				\$ 46,800,000
Contingency		25%	of Construction	\$ 11,700,000
			TOTAL ESTIMATED COST:	<u>\$ 59,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions

PRELIMINARY ESTIMATE OF COST
Longer Entrance Ramp Eastbound Willow Road to Southbound I-94 Option
Corresponds to Exhibit 17
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
Reconstruct Willow Road (300')	\$10,000,000	MILE	0.06	\$ 569,000
			Subtotal:	\$ 569,000
			Say:	\$ 600,000
Interchange Ramps				
Southbound Entrance Ramp	\$5,000,000	MILE	0.6	\$ 2,975,000
			Subtotal:	\$ 2,975,000
			Say:	\$ 3,000,000
Bridges				
No Bridges			0	\$ -
			Subtotal:	\$ -
			Say:	\$ -
Walls				
No Retaining Walls			0	\$ -
			Subtotal:	\$ -
			Say:	\$ -
Signals				
Eastbound Willow Road to Southbound I-294 Ramp	\$300,000	EACH	1	\$ 300,000
Willow Road at Happ Road/Central Avenue	\$300,000	EACH	1	\$ 300,000
			Subtotal:	\$ 600,000
			Say:	\$ 600,000
Construction Subtotal				\$ 4,200,000
Contingency		25%	of Construction	\$ 1,050,000
TOTAL ESTIMATED COST:				<u>\$ 6,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions

PRELIMINARY ESTIMATE OF COST
Pedestrian Friendly Modification at Willow Road Interchange Option
Corresponds to Exhibit 18
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
I-94 Southbound Entrance Ramp from Willow Road (300')	\$10,000,000	MILE	0.06	\$ 569,000
			Subtotal:	\$ 569,000
			Say:	\$ 600,000
Interchange Ramps				
I-94 Ramps	\$5,000,000	MILE	0.6	\$ 2,841,000
			Subtotal:	\$ 2,841,000
			Say:	\$ 2,900,000
Bridges				
Willow Road over I-94	\$250	SQ FT	23,434	\$ 5,859,000
			Subtotal:	\$ 5,859,000
			Say:	\$ 5,900,000
Walls				
No Retaining Walls			0	\$ -
			Subtotal:	\$ -
			Say:	\$ -
Signals				
Eastbound Willow Road to Southbound I-294 Ramp	\$300,000	EACH	1	\$ 300,000
Willow Road at Happ Road/Central Avenue	\$300,000	EACH	1	\$ 300,000
Willow Road at I-94 Northbound Exit Ramp	\$300,000	EACH	1	\$ 300,000
			Subtotal:	\$ 900,000
			Say:	\$ 900,000
Construction Subtotal				\$ 10,300,000
Contingency	25%	of Construction		\$ 2,575,000
TOTAL ESTIMATED COST:				<u>\$ 13,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions

PRELIMINARY ESTIMATE OF COST
Willow Road at IL 43 Intersection Improvements Option
Corresponds to Exhibit 19
March 10, 2011

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM TOTAL</u>
Road				
Reconstruct Willow Road (3,100')	\$10,000,000	MILE	0.59	\$ 5,872,000
Reconstruct Waukegan Road (500')	\$10,000,000	MILE	0.09	\$ 947,000
			Subtotal:	\$ 6,819,000
			Say:	\$ 6,900,000
Interchange Ramps				
No Interchange Ramps			0.0	\$ -
			Subtotal:	\$ -
			Say:	\$ -
Bridges				
No Bridges			0	\$ -
			Subtotal:	\$ -
			Say:	\$ -
Walls				
No Retaining Walls			0	\$ -
			Subtotal:	\$ -
			Say:	\$ -
Signals				
Willow Road at Waukegan Road	\$300,000	EACH	1	\$ 300,000
			Subtotal:	\$ 300,000
			Say:	\$ 300,000
Construction Subtotal				\$ 7,200,000
Contingency			25% of Construction	\$ 1,800,000
TOTAL ESTIMATED COST:				<u>\$ 9,000,000</u>

Notes:

1. See Summary Sheet for Key Assumptions