

# Tyler Road: Through Highway 61 Intersection

## From Kosec Drive to Curve by Public Works Facility

3 Alternatives; 4 pages

TYLER RD AT HIGHWAY 61  
POTENTIAL SAFETY IMPROVEMENTS

ALTERNATIVE 1

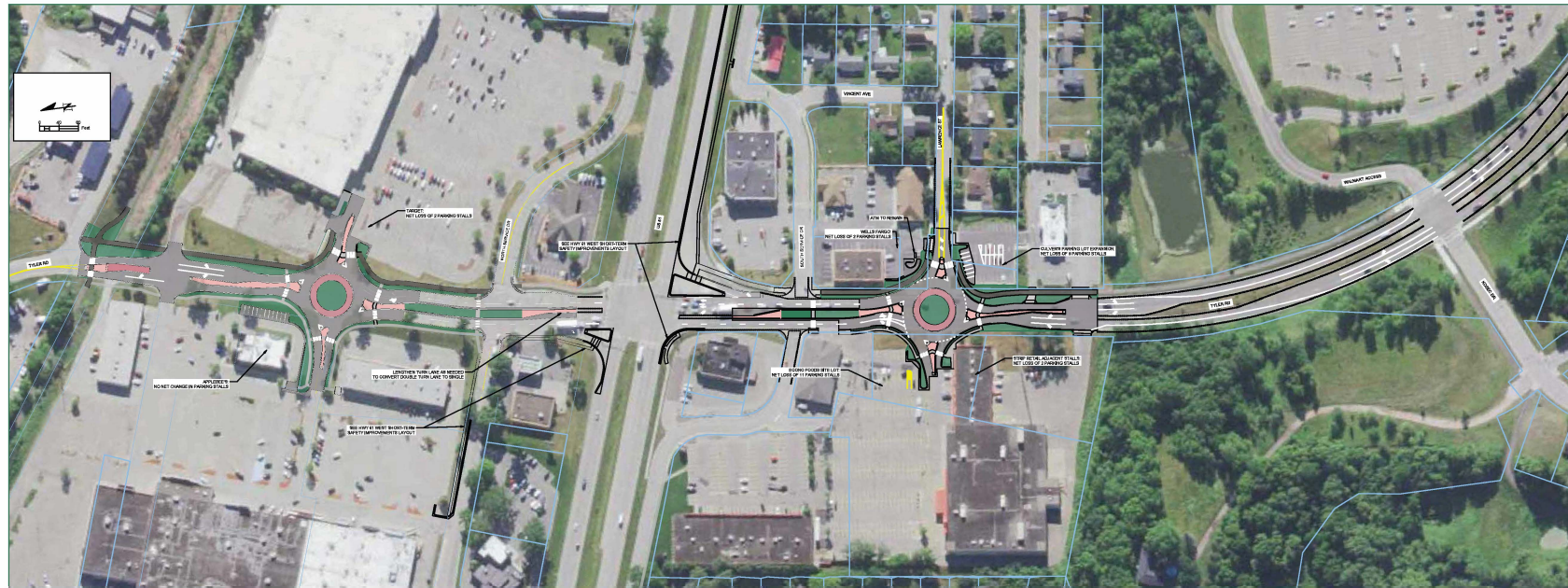
DRAFT 12/16/2024

**TOOLE**  
DESIGN



LEGEND	
	PROPOSED ROADWAY AND PARKING LOTS
	PROPOSED CONCRETE CURB & BUTTER
	PROPOSED SIDEWALK
	PROPOSED SHARED-USE PATH
	PROPOSED CONCRETE DRIVEWAY APRONS
	PROPOSED CONCRETE MEDIAN
	PROPOSED GREEN SPACE / LANDSCAPING
	PROPOSED TRUCK TURNING APRON

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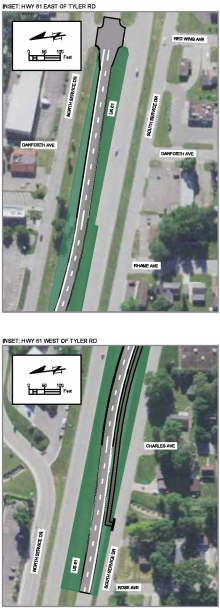
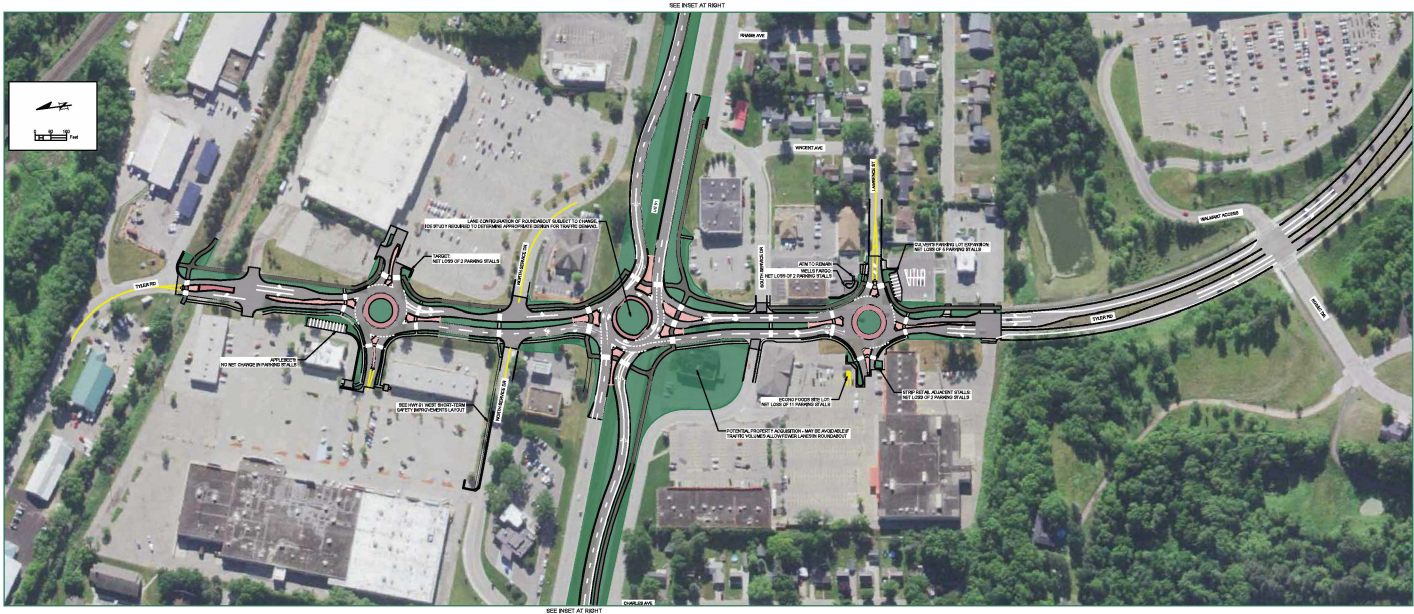


TYLER RD AT HIGHWAY 61  
POTENTIAL SAFETY IMPROVEMENTS  
ALTERNATIVE 1 PLUS HWY 61 ROUNDABOUT  
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LEGEND	
	PROPOSED ROADWAY AND PARKING LOTS
	PROPOSED CONCRETE CURB & GUTTER
	PROPOSED SIDEWALK
	PROPOSED SHARED-USE PATH
	PROPOSED CONCRETE DRIVEWAY APRONS
	PROPOSED CONCRETE MEDIAN
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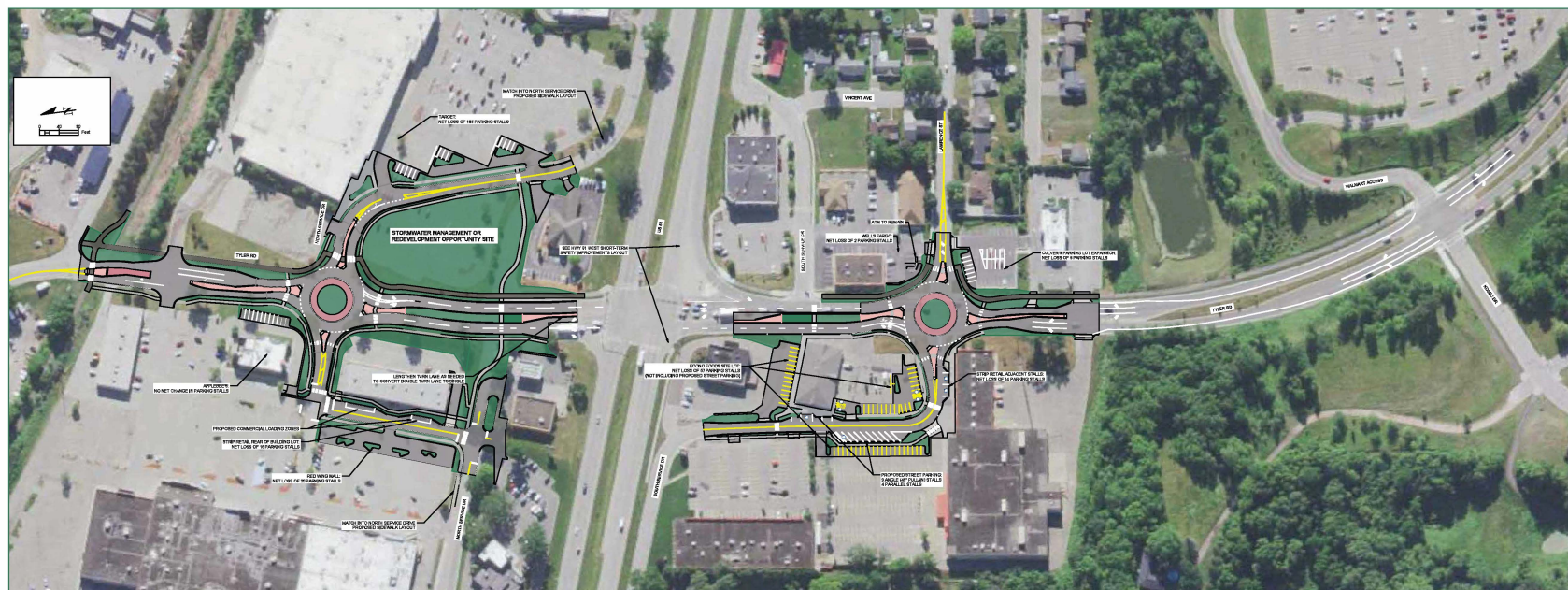
ALTERNATIVE 2  
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**LEGEND**

-  PROPOSED ROADWAY AND PARKING LOTS
-  PROPOSED CONCRETE CURB & GUTTER
-  PROPOSED SIDEWALK
-  PROPOSED SHARED-USE PATH
-  PROPOSED CONCRETE DRIVEWAY APRONS
-  PROPOSED CONCRETE MEDIAN
-  PROPOSED GREEN SPACE / LANDSCAPING
-  PROPOSED TRUCK TURNING APRON

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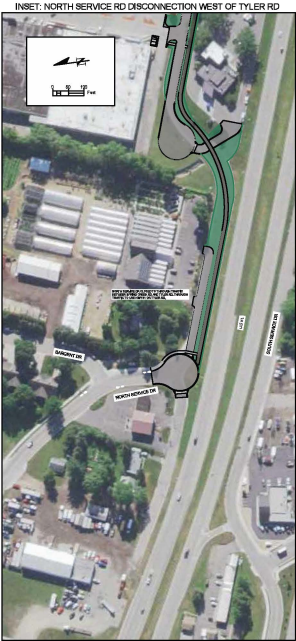
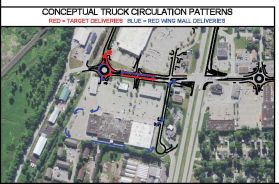
TYLER RD AT HIGHWAY 61  
POTENTIAL SAFETY IMPROVEMENTS

ALTERNATIVE 3

DRAFT 12/16/2024



LEGEND	
	PROPOSED ROADWAY AND PARKING LOTS
	PROPOSED CONCRETE CURB & GUTTER
	PROPOSED SIDEWALK
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## Opinion of Probable Cost - Concept Cost Estimate

## TYLER ROAD AND HIGHWAY 61 (INCLUDING INTERSECTIONS AT NORTH &amp; SOUTH SERVICE DRIVES)

For City of Red Wing



Item	Unit	Unit Price	Alternative 1		Alternative 2		Alternative 3	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
MAJOR ROADWAY ITEMS								
* AGGREGATE BASE (CV) CLASS 5	CY	\$80.00	3300	\$ 264,000	6100	\$ 488,000	6900	\$ 552,000
* TYPE SP 12.5 NON WEARING COURSE MIX (3:C)	TONS	\$100.00	2200	\$ 220,000	4000	\$ 400,000	4600	\$ 460,000
* TYPE SP 12.5 WEARING COURSE MIX (3:C)	TONS	\$125.00	2300	\$ 287,500	2300	\$ 287,500	4900	\$ 612,500
CONCRETE CURB & GUTTER DESIGN B618	LF	\$30.00	6800	\$ 204,000	10400	\$ 312,000	12900	\$ 387,000
CONCRETE CURB & GUTTER DESIGN B612	LF	\$24.00	900	\$ 21,600	4100	\$ 98,400	2200	\$ 52,800
COMMON TOPSOIL BORROW	CU YD	\$45.00	780	\$ 35,100	2670	\$ 120,150	2540	\$ 114,300
SEED SOUTHERN BOULEVARD	LB	\$4.00	160	\$ 640	530	\$ 2,120	510	\$ 2,040
8" CONCRETE DRIVEWAY (TRUCK APRON)	SY	\$130.00	810	\$ 105,300	810	\$ 105,300	720	\$ 93,600
8" CONCRETE DRIVEWAY	SY	\$122.00	220	\$ 26,840	550	\$ 67,100	530	\$ 64,660
4" BITUMINOUS WALK	SF	\$5.00	14200	\$ 71,000	16100	\$ 80,500	38300	\$ 191,500
4" CONCRETE WALK	SF	\$9.50	8000	\$ 76,000	33500	\$ 318,250	21400	\$ 203,300
CONCRETE CURB RAMP WALK	SF	\$18.00	4800	\$ 86,400	5400	\$ 97,200	5700	\$ 102,600
Subtotal - Major Roadway Items				\$ 1,398,380		\$ 2,376,520		\$ 2,836,300
MAJOR TRAFFIC ITEMS								
LIGHT POLE	EACH	\$12,000.00	23	\$ 276,000	36	\$ 432,000	33	\$ 396,000
PEDESTRIAN CROSSWALK FLASHER SYSTEM	SYS	\$30,000.00	3	\$ 90,000	3	\$ 90,000	3	\$ 90,000
Subtotal - Major Traffic Items				\$ 366,000		\$ 522,000		\$ 486,000
LUMP SUM CONSTRUCTION ITEMS								
PRECONDITION SURVEY	LUMP SUM	\$50,000.00	1	\$ 50,000	1	\$ 50,000	1	\$ 50,000
VIBRATION MONITORING	LUMP SUM	\$50,000.00	1	\$ 50,000	1	\$ 50,000	1	\$ 50,000
FIELD OFFICE TYPE D	EACH	\$50,000.00	1	\$ 50,000	1	\$ 50,000	1	\$ 50,000
Subtotal - Lump Sum Construction Items				\$ 150,000		\$ 150,000		\$ 150,000
Itemized Construction Subtotal				\$ 1,914,380		\$ 3,048,520		\$ 3,472,300
PERCENTAGE BASED ITEMS								
MOBILIZATION	8%		of construction	\$ 153,200		\$ 243,900		\$ 277,800
REMOVALS	5%		of maj roadway	\$ 70,000		\$ 118,900		\$ 141,900
EXCAVATION AND EMBANKMENT	5%		of maj roadway	\$ 70,000		\$ 118,900		\$ 141,900
SIGNING & PAVEMENT MARKINGS	5%		of maj roadway	\$ 70,000		\$ 118,900		\$ 141,900
TURF ESTABLISHMENT AND EROSION CONTROL	5%		of maj roadway	\$ 70,000		\$ 118,900		\$ 141,900
LANDSCAPING/STREETSCAPE	3%		of maj roadway	\$ 35,000		\$ 59,500		\$ 71,000
TRAFFIC CONTROL/STAGING	5%		of maj roadway	\$ 70,000		\$ 118,900		\$ 141,900
DRAINAGE/UTILITY RELOCATIONS	15%		of maj roadway	\$ 209,800		\$ 356,500		\$ 425,500
Subtotal - Percentage Items				\$ 748,000		\$ 1,254,400		\$ 1,483,800
Construction Cost (2024 Dollar)				\$ 2,662,380		\$ 4,302,920		\$ 4,956,100
Contingency (30%)				\$ 798,720		\$ 1,290,880		\$ 1,486,830
Subtotal Project Cost (2024 Dollars)				\$ 3,461,100		\$ 5,593,800		\$ 6,442,930
Project								
Engineering (15%)				\$ 519,170		\$ 839,070		\$ 966,440
Construction Supervision (15%)				\$ 519,170		\$ 839,070		\$ 966,440
Total Project Cost (2024 Dollars)				\$ 4,499,440		\$ 7,271,940		\$ 8,375,810

Assumed 5" wearing course, 5" non-wearing course, and 4" aggregate base.

This opinion of probable construction cost was developed by identifying pay items and establishing quantities based on the current concept design construction documents. Additional pay items have been assigned approximate lump sum prices based on a percentage of the anticipated construction cost. Preliminary cost opinions include a 30% contingency to cover items that are undefined or are typically unknown prior to final design. Unit costs are based on 2024 dollars and were assigned based on historical cost data from MnDOT Bid Tabulations. This cost opinion does not include easement and right-of-way acquisition; permitting, inspection, or construction management; escalation; or the cost for ongoing maintenance. This cost opinion is provided for the Client's information, and is based on the design professional's recent experience, adjusted for factors known at the time of preparation. Toole Design Group, LLC has no control over the cost of labor and material, competitive bidding, or market conditions; and makes no warranties, expressed or implied, concerning the accuracy of the opinion as compared to actual bids or cost to the Client.