

HIGHWAY 61 THROUGH DOWNTOWN TO OLD WEST MAIN STREET









HIGHWAY 61 DOWNTOWN
POTENTIAL SHORT-TERM
SAFETY IMPROVEMENTS

DRAFT 12/18/2024

TOOLE
DESIGN

City of
RED WING

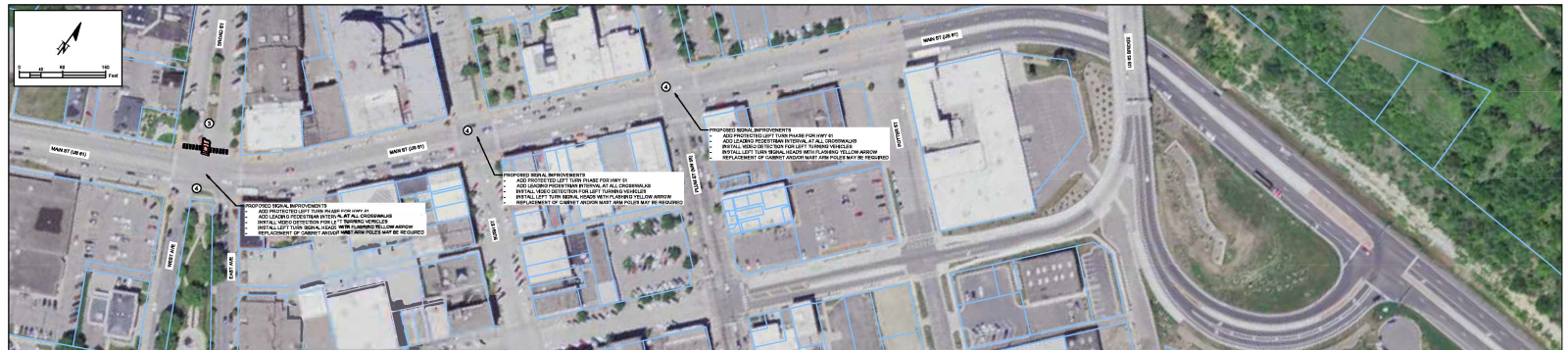
LEGEND

-  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
-  POTENTIAL ACCESS CLOSURE

POTENTIAL SAFETY IMPROVEMENTS:

- ① CONVERT CEDAR STREET/CROSS ST TO RIGHT IN-SIGHT ONLY, ADD PEDESTRIAN REFUGE TO CROSS HWY 61
- ② ADD PEDESTRIAN REFUGE TO CROSS HWY 61 AT PULTON ST
- ③ ADD PEDESTRIAN REFUGE TO CROSS BROAD ST AT HWY 61
- ④ NOCIFY SIGNAL OPERATIONS AT BROAD ST, BURKST, AND PLUMSTOWN 58 TO IMPROVE SAFETY
- ⑤ CLOSE DRIVEWAY ACCESS POINTS ALONG HWY 61
- ⑥ ADD FENCING AND RECONFIGURE PARKING LOTS TO REDUCE CONFLICTS WITH SIDEWALKING USERS
- ⑦ ADD SIGNAL AT FRANKLIN ST AND EXTEND FRANKLIN TO GRAIN TERMINAL (ALIGNMENT TBD, RAILROAD COORDINATION REQUIRED)

DISCLAIMER: THIS DRAFT DOCUMENT DOES NOT REPRESENT CURRENTLY PLANNED AND/OR FUNDED PROJECTS. NOT TO BE USED FOR CONSTRUCTION.



Opinion of Probable Cost - Concept Cost Estimate

Highway 61 - Through Downtown Area to Old West Main Street

For City of Red Wing

TOOLE

DESIGN

Item	Unit	Unit Price	(1) Cedar-Mechanic Median Closure		(2) Fulton St Refuge Island		(3) Broad St Refuge Island		(4) Downtown Signal Modifications		(6) Sidewalk- Parking Delineation Fencing		(7) Franklin St Signal		Total Cost
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
MAJOR ROADWAY ITEMS															
AGGREGATE BASE (CV) CLASS 5	CY	\$120.00	35	\$4,300	10	\$1,200	5	\$700					19	\$2,300	\$ 8,500
CONCRETE CURB & GUTTER DESIGN B612	LF	\$42.00	568	\$23,900	190	\$8,000	68	\$2,900							\$ 34,800
CONCRETE CURB & GUTTER DESIGN B624	LF	\$48.00	44	\$2,200									200	\$9,600	\$ 11,800
CONCRETE PAVEMENT 9.0"	SY	\$200.00											40	\$8,000	\$ 8,000
4" CONCRETE WALK	SF	\$15.00	2238	\$33,600	727	\$11,000	170	\$2,600							\$ 47,200
CONCRETE CURB RAMP WALK	SF	\$20.00	635	\$12,700	63	\$1,300	241	\$4,900					800	\$16,000	\$ 34,900
TRUNCATED DOMES	SF	\$80.00	80	\$6,400	40	\$3,200	40	\$3,200					112	\$9,000	\$ 21,800
ORNAMENTAL FENCE	LF	\$175.00									806	\$141,100			\$ 141,100
Subtotal - Major Roadway Items				\$83,100		\$24,700		\$14,300				\$141,100		\$44,900	\$ 308,100
MAJOR TRAFFIC ITEMS															
REVISE SIGNAL SYSTEMS	LUMP SUM	VARIES					1	\$5,000	1	\$150,000					\$ 155,000
NEW TRAFFIC SIGNAL SYSTEM	SYS	\$400,000.00											1	\$400,000	\$ 400,000
SIGNING & PAVEMENT MARKINGS	LUMP SUM	VARIES	1	\$7,000.00	1	\$5,000.00	1	\$6,000	1	\$10,000			1	\$20,000	\$ 48,000
TRAFFIC CONTROL	LUMP SUM	VARIES													\$ -
Subtotal - Major Traffic Items				\$7,000		\$5,000		\$11,000		\$160,000				\$420,000	\$ 603,000
Construction Subtotal				\$ 90,100		\$ 29,700		\$ 25,300		\$ 160,000		\$ 141,100		\$ 464,900	\$ 911,100
PERCENTAGE BASED ITEMS															
MOBILIZATION	12%	of construction		\$ 10,900.00		\$ 3,600.00		\$ 3,100.00		\$ 19,200.00		\$ 17,000.00		\$ 55,800.00	\$ 109,600
REMOVALS	8%	of maj roadway		\$ 7,300.00		\$ 2,400.00		\$ 2,100.00		\$ 12,800.00				\$ 37,200.00	\$ 61,800
EXCAVATION AND EMBANKMENT	2%	of maj roadway		\$ 9,100.00		\$ 600.00		\$ 600.00						\$ 9,300.00	\$ 12,400
LANDSCAPING/STREETSCAPE	10%	of maj roadway		\$ 9,100.00		\$ 3,000.00		\$ 2,600.00						\$ 46,500.00	\$ 61,200
Subtotal - Percentage Items				\$ 29,200		\$ 9,600		\$ 8,400		\$ 32,000		\$ 17,000		\$ 148,800	\$ 245,000
Itemized Construction Cost (2024 Dollars)				\$ 119,300		\$ 39,300		\$ 33,700		\$ 192,000		\$ 158,100		\$ 613,700	\$ 1,156,100
Contingency (30%)				\$ 35,790		\$ 11,790		\$ 10,110		\$ 57,600		\$ 47,430		\$ 184,110	\$ 346,830
Total Project Cost (2024 Dollars)				\$ 155,090		\$ 51,090		\$ 43,810		\$ 249,600		\$ 205,530		\$ 797,810	\$ 1,502,930
Project Engineering (25%)				\$ 38,800		\$ 12,800		\$ 11,000		\$ 62,400		\$ 51,400		\$ 199,500	\$ 375,900
Construction Supervision (20%)				\$ 31,000		\$ 10,200		\$ 8,800		\$ 49,600		\$ 41,100		\$ 159,600	\$ 300,600
Total Project Cost (2024 Dollars)				\$ 224,890		\$ 74,090		\$ 63,610		\$ 361,900		\$ 298,030		\$ 1,156,910	\$ 2,179,430

- ASSUMPTIONS:
- Existing sawcut pavement serves as forms for proposed construction, no additional patching required
 - Existing roadway aggregate base remains in place with pavement removed and proposed improvements constructed on top
 - No drainage or public utility modifications required to implement safety projects

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 and City of Red Wing Bid Tabulations. This cost opinion does not include easement and right-of-way acquisition; permitting; 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.