



US 8
Preliminary Construction Cost Estimate
 Prepared By: SRF Consulting Group, Inc., 2/6/2023

ITEM DESCRIPTION	UNIT	UNIT PRICE	CENSUS TRACT 701.03		CENSUS TRACT 1104.01		CENSUS TRACT 1105.02		TOTAL			
			TH 8 from TH 61 to		TH 8 from		TH 8 from Viking Blvd to Karmel Ave		EST. QUANTITY	EST. AMOUNT		
			EST. QUANTITY	EST. AMOUNT	EST. QUANTITY	EST. AMOUNT	EST. QUANTITY	EST. AMOUNT				
PAVING AND GRADING COSTS												
GrP 1a	2106 Excavation - common & subgrade	cu. yd.	\$10.00	16,104	\$161,038	358,310	\$3,583,096	28,182	\$281,817	402,595	\$4,025,950	
GrP 2a	2106 Common Embankment (CV)	cu. yd.	\$10.00	12,379	\$123,787	203,011	\$2,030,107	32,185	\$321,846	247,574	\$2,475,740	
GrP 2d	2106 Granular Subgrade (CV)	cu. yd.	\$15.00	3,777	\$56,661	62,705	\$940,573	9,066	\$135,986	75,548	\$1,133,220	
GrP 3a	Mainline Pavement	sq. yd.	\$35.00	34,070	\$1,192,440	258,930	\$9,062,540	47,698	\$1,669,415	340,697	\$11,924,395	
GrP 3b	Pavement Rehabilitation	sq. yd.	\$28.00	46,589	\$1,304,492					46,589	\$1,304,492	
GrP 4a	Median	sq. ft.	\$7.50	235	\$1,760	166,596	\$1,249,469	67,812	\$508,587	234,642	\$1,759,815	
GrP 4b	New Bituminous Trail - 3"	sq. yd.	\$20.00	4,028	\$80,557	33,118	\$662,359	7,608	\$152,164	44,754	\$895,080	
GrP 5	Curb and Gutter	lin. ft.	\$25.00	7,196	\$179,900	45,138	\$1,128,461	13,084	\$327,090	65,418	\$1,635,450	
GrP 7	Pavement Edge Drains	lin. ft.	\$10.00	13,528	\$135,281	84,551	\$845,505	14,655	\$146,554	112,734	\$1,127,340	
GrP 8a	Removals - Pavement	sq. yd.	\$4.00	23,346	\$93,383	154,930	\$619,720	33,957	\$135,829	212,233	\$848,932	
SUBTOTAL PAVING AND GRADING COSTS:					\$3,329,297		\$20,121,829		\$3,679,288		\$27,130,414	
DRAINAGE AND UTILITIES												
Dr 3	Water Quality Ponds	each	\$181,670			12	\$2,180,040			12	\$2,180,040	
Dr 5	Drainage - urban	18%			\$613,000		\$3,703,000		\$677,000		\$4,993,000	
Dr 7	Turf Establishment & Erosion Control	5%			\$166,000		\$1,006,000		\$184,000		\$1,356,000	
SUBTOTAL DRAINAGE, UTILITIES AND EROSION CONTROL					\$779,000		\$6,889,040		\$861,000		\$8,529,040	
RETAINING WALLS & OTHER MINOR STRUCTURAL COSTS												
RW 1	Box Culvert -	lin. ft.	\$3,000			350	\$1,050,000			350	\$1,050,000	
RW 16	MSE Ret Walls 10' high	lin. ft.	\$400			1,500	\$600,000			1,500	\$600,000	
RW 30	Concrete Median Barrier	lin. ft.	\$110.00	8,059	\$886,497	10,683	\$1,175,123			18,742	\$2,061,620	
RW 31	High Tension Cable Guardrail	lin. ft.	\$25.00			9,835	\$245,875			9,835	\$245,875	
RW 32	Impact Attenuator	each	\$150,000	1	\$15,000	7	\$105,000			8	\$120,000	
SUBTOTAL RETAINING WALLS & OTHER MINOR STRUCTURAL COSTS:					\$901,497		\$3,175,998				\$4,077,495	
SIGNAL AND LIGHTING COSTS												
SGL 1	Signals (permanent)	each	\$300,000			3	\$900,000			3	\$900,000	
SGL 2	Signals (temporary)	each	\$80,000			3	\$240,000			3	\$240,000	
SGL 3	Trail Lighting	each	\$8,000			2	\$16,000			2	\$16,000	
SGL 4	Mainline Intersection Lighting (permanent)	each	\$75,000			5	\$375,000			5	\$375,000	
SUBTOTAL SIGNAL AND LIGHTING COSTS:							\$1,531,000				\$1,531,000	
SIGNING & STRIPING COSTS												
SGN 1	Mainline Signing (C&D)	mile	\$35,000	0.6	\$20,231	5.4	\$190,505	1.2	\$42,272	7.2	\$253,008	
SGN 2	Mainline Striping	mile	\$5,000	1.4	\$7,000	5.4	\$27,215	1.2	\$6,039	8.1	\$40,254	
SUBTOTAL SIGNING & STRIPING COSTS:					\$27,231		\$217,720		\$48,311		\$293,261	
SUBTOTAL CONSTRUCTION COSTS:					\$5,037,025		\$31,935,587		\$4,588,598		\$41,561,210	
MISCELLANEOUS COSTS												
M 1	Mobilization	5%			\$252,000		\$1,597,000		\$229,000		\$2,078,000	
M 2	Non Quantified Minor Items	(2) 4%			\$176,000		\$1,118,000		\$161,000		\$1,455,000	
M 7	Temporary Pavement & Drainage	4%			\$201,000		\$1,277,000		\$184,000		\$1,662,000	
M 8	Construction Traffic Control	3%			\$151,000		\$958,000		\$138,000		\$1,247,000	
M 10	Landscaping	1%			\$50,000		\$319,000		\$46,000		\$415,000	
SUBTOTAL MISCELLANEOUS COSTS:					\$830,000		\$5,269,000		\$758,000		\$6,857,000	
ESTIMATED TOTAL CONSTRUCTION COSTS without Contingency:					\$5,867,025		\$37,204,587		\$5,346,598		\$48,418,210	
1	Contingency or "risk"	(3) 4%			\$246,000		\$1,563,000		\$225,000		\$2,034,000	
ESTIMATED TOTAL CONSTRUCTION COSTS PLUS CONTINGENCY:					\$6,113,025		\$38,767,587		\$5,571,598		\$50,452,210	
OTHER PROJECT COSTS:												
UTILITY AGREEMENTS			Lump Sum	\$750,000	0.1	\$75,000	0.75	\$562,500	0.15	\$112,500	1	\$750,000
R/W ACQUISITIONS (TH 8 only)			Lump Sum	\$5,565,000	0.1	\$556,500	0.75	\$4,173,750	0.15	\$834,750	1	\$5,565,000
DESIGN ENG. & CONSTRUCTION ADMIN.			9%	\$4,316,000	0.1	\$431,600	0.75	\$3,237,000	0.15	\$647,000	1	\$4,315,600
Frontage/Backage Roads - City of Wyoming			(4) Lump Sum	\$9,880,000			1	\$9,880,000			1	\$9,880,000
Frontage/Backage Roads - Chisago City			(4) Lump Sum	\$11,340,000			0.9	\$10,206,000	0.1	\$1,134,000	1	\$11,340,000
SUBTOTAL OTHER PROJECT COSTS					\$1,063,100		\$28,059,252		\$2,728,250		\$31,850,602	
TOTAL PROJECT COST (based upon 2022 bid price information)					\$7,176,125		\$66,826,838		\$8,299,849		\$82,302,812	

- NOTE: (1) Includes 5" aggregate base class 5.
 (2) Non-quantified minor items (includes clearing & grubbing, misc. surface removals, etc.)
 (3) Potential contingency items (includes muck excavation, soil corrections, etc.)
 (4) Includes R/W and total takes for Frontage/Backage Roads

Utility Agreements based upon: relocating large transmission poles