



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

			CENSUS TRACT 701.03 TH 8 from TH 61 to Chisago/Washington County Line		CENSUS TRACT 1104.01 TH 8 from Chisago/Washington County line to Viking Blvd		CENSUS TRACT 1105.02 TH 8 from Viking Blvd to Karmel Ave		TOTAL	
ITEM DESCRIPTION	UNIT	UNIT PRICE	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	26,182	\$261,817	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	(1) 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	(1) 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"	(1) 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