



TH 19 Marshall

Concept Cost Estimate (based upon 2021 bid price information)
Prepared By: SRF Consulting Group, Inc., January, 27, 2023

				CENSUS TRACT 3603				CENSUS TRACT 3604				CENSUS TRACT 3605								
				TH 19 West of TH 59- MnDOT		TH 19 - CITY		CITY (Non-Federally Eligible)		TH 19 Saratoga to TH 59- MnDOT		TH 19 East of TH 59- MnDOT		TH 19 - CITY		CITY (Non-Federally Eligible)		TOTAL		
ITEM DESCRIPTION		UNIT	UNIT PRICE	EST. QUANTITY	EST. AMOUNT	EST. QUANTITY	EST. AMOUNT	EST. QUANTITY	EST. AMOUNT	EST. QUANTITY	EST. AMOUNT	EST. QUANTITY	EST. AMOUNT	EST. QUANTITY	EST. AMOUNT	EST. QUANTITY	EST. AMOUNT	EST. QUANTITY	EST. AMOUNT	
PAVING AND GRADING COSTS																				
1	Local & Frontage Road Pavement (Bituminous)	(1)	sq. yd.	\$35.00	1,090	\$38,150				280	\$9,800	3,680	\$128,800	2,090	\$73,150			7,140	\$249,900	
2	Concrete Walk / Trail / Median	(2)	sq. yd.	\$75.00	6,570	\$492,750	600	\$45,000		1,060	\$79,500	7,440	\$558,000	260	\$19,500			15,930	\$1,194,750	
3	Truck Apron, Driveway & Alleyway	(1)	sq. yd.	\$81.00	2,660	\$215,460	680	\$55,080		120	\$9,720	2,690	\$217,890	270	\$21,870			6,420	\$520,020	
4	Mainline Pavement (TH 19-Concrete)	(1)(6)	sq. yd.	\$81.00	10,650	\$862,650	1,360	\$110,160		2,830	\$229,230	19,230	\$1,557,630					34,070	\$2,759,670	
5	Mainline Shoulder Pavement (parking)	(1)(3)	sq. yd.	\$81.00	670	\$54,270	80	\$6,480				130	\$10,530	20	\$1,620			900	\$72,900	
6	2106 Excavation - common & subgrade		cu. yd.	\$10.00	23,100	\$231,000	2,400	\$24,000		5,000	\$50,000	36,000	\$360,000	2,200	\$22,000			68,700	\$687,000	
7	2106 Common Embankment (CV)		cu. yd.	\$4.00	27,200	\$108,800	4,100	\$16,400		5,800	\$23,200	41,700	\$166,800	600	\$2,400			79,400	\$317,600	
8	2106 Granular Subgrade (CV)		cu. yd.	\$25.00	18,400	\$460,000	2,000	\$50,000		4,000	\$100,000	28,300	\$707,500	1,500	\$37,500			54,200	\$1,355,000	
9	Contaminated Materials Hauling	(5)	cu. yd.	\$55.00	56	\$3,080	320	\$17,600		24	\$1,320	120	\$6,600	480	\$26,400			1,000	\$55,000	
10	Bridge No 5083. - Approach Panels		sq. yd.	\$250								155	\$38,750					155	\$38,750	
11	ADA Pedestrian Curb Ramp		each	\$1800.00	32	\$57,600	8	\$14,400		5	\$9,000	51	\$91,800					96	\$172,800	
12	Concrete Curb and Gutter		lin. ft.	\$35.00	7,630	\$267,050	1,040	\$36,400		1,090	\$38,150	10,110	\$353,850	1,130	\$39,550			21,000	\$735,000	
13	Dana Cole Parking Lot	(10)	l.s.	\$150,000	1	\$150,000												1	\$150,000	
14	Mill & Overlay	(11)	sq. yd.	\$15	5,530	\$82,950												5,530	\$82,950	
SUBTOTAL PAVING AND GRADING COSTS:					\$3,023,760		\$375,520				\$549,920		\$4,198,150		\$243,990				\$8,391,340	
DRAINAGE, UTILITIES AND EROSION CONTROL																				
1	Removals - Pavement		sq. yd.	\$6.00	22,040	\$132,240	2,590	\$15,540		4,950	\$29,700	30,780	\$184,680	4,110	\$24,660			64,470	\$386,820	
2	Local Utilities - Sanitary Sewers	(9)	l.s.	\$499,500				0.4	\$199,800						0.6	\$299,700		1	\$499,500	
3	Local Utilities - Watermains	(9)	l.s.	\$483,900				0.4	\$193,560						0.6	\$290,340		1	\$483,900	
4	Local Utilities - Storm Sewers	(9)	l.s.	\$486,000			0.4	\$194,400						0.6	\$291,600			1	\$486,000	
5	Electric Vehicle - Charging Station		l.s.	\$250,000								1	\$250,000					1	\$250,000	
6	Drainage - urban		25%			\$756,000					\$138,000		\$1,050,000						\$1,944,000	
7	Traffic Control		3%			\$91,000		\$12,000			\$17,000		\$126,000		\$8,000				\$254,000	
8	Dewatering		10%		0.10	\$85,680			0.3	\$235,200	0.02	\$15,120	0.18	\$151,200			0.4	\$352,800	\$840,000	
9	Turf Establishment & Erosion Control		3%			\$91,000		\$12,000			\$17,000		\$126,000		\$8,000				\$254,000	
10	Landscaping																			
SUBTOTAL DRAINAGE, UTILITIES AND EROSION CONTROL					\$1,155,920		\$233,940		\$628,560		\$216,820		\$1,887,880		\$332,260		\$942,840		\$5,398,220	
SIGNAL AND LIGHTING COSTS																				
1	Signals (permanent)	(4)	each	\$250,000	1	\$250,000						1	\$250,000	1	\$250,000			3	\$750,000	
2	Roadway Lighting (MnDOT)	(7)	each	\$7,000	4	\$28,000						4	\$28,000	4	\$28,000			12	\$84,000	
3	Roadway Lighting (City)	(8)	each	\$3,100			7	\$21,700						10	\$31,000			17	\$52,700	
4	Decorative Lighting (Single Assembly)	(8)	each	\$4,000			7	\$28,000						10	\$40,000			17	\$68,000	
5	Decorative Lighting (Double Assembly)	(8)	each	\$6,400			9	\$57,600						13	\$83,200			22	\$140,800	
6	Decorative Lighting (Intersection Lighting)	(8)	each	\$1,600			3	\$4,800						5	\$8,000			8	\$12,800	
7	Ped Flasher System (RRFB)		each	\$78,000								1	\$78,000					1	\$78,000	
8	Landscaping		l.s.	\$20,800			0.4	\$8,320						0.6	\$12,480			1	\$20,800	
SUBTOTAL SIGNAL AND LIGHTING COSTS:					\$278,000		\$120,420						\$356,000		\$452,680				\$1,207,100	
SIGNING & STRIPING COSTS																				
1	Mainline Signing (C&D)		mile	\$35,000	0.6	\$20,230	0.2	\$7,000		0.1	\$3,570	1.0	\$35,700	0.1	\$3,500			2	\$70,000	
2	Mainline Striping		mile	\$5,000	0.6	\$2,890	0.2	\$1,000		0.1	\$510	1.0	\$5,100	0.1	\$500			2	\$10,000	
SUBTOTAL SIGNING & STRIPING COSTS:					\$23,120		\$8,000				\$4,080		\$40,800		\$4,000				\$80,000	
SUBTOTAL CONSTRUCTION COSTS:					\$4,480,800		\$737,880		\$628,560		\$770,820		\$6,482,830		\$1,032,930		\$942,840		\$15,076,660	
MISCELLANEOUS COSTS																				
1	Mobilization		5%			\$225,000		\$37,000		\$32,000		\$39,000		\$325,000		\$52,000		\$48,000		\$758,000
2	Non Quantified Minor Items																			
3	Temporary Pavement & Drainage		5%			\$225,000		\$37,000		\$32,000		\$39,000		\$325,000		\$52,000		\$48,000		\$758,000
SUBTOTAL MISCELLANEOUS COSTS:					\$450,000		\$74,000		\$64,000		\$78,000		\$650,000		\$104,000		\$96,000		\$1,516,000	
ESTIMATED TOTAL CONSTRUCTION COSTS without Contingency:					\$4,930,800		\$811,880		\$692,560		\$848,820		\$7,132,830		\$1,136,930		\$1,038,840		\$16,592,660	
1	Contingency or "risk"		20%			\$987,000		\$163,000		\$139,000		\$170,000		\$228,000		\$208,000			\$3,322,000	
ESTIMATED TOTAL CONSTRUCTION COSTS PLUS CONTINGENCY:					\$5,917,800		\$974,880		\$831,560		\$1,018,820		\$8,559,830		\$1,364,930		\$1,246,840		\$19,914,660	
INFLATION COST (CURRENT YR. TO YR. OF OPENING)		Factor	23%		\$1,361,094		\$224,223		\$191,259		\$234,329		\$1,968,761		\$313,934		\$286,774		\$4,580,374	
					\$7,278,894		\$1,199,103		\$1,022,819		\$1,253,149		\$10,528,591		\$1,678,864		\$1,533,614		\$24,495,034	
TOTAL PROJECT COST (OPENING YEAR DOLLARS)					\$7,278,894		\$1,199,103		\$1,022,819		\$1,253,149		\$10,528,591		\$1,678,864		\$1,533,614		\$24,495,034	

NOTE (1) Assumed pavement and aggregate depths:
TH 19 Concrete Pavement - 8" Concrete / 6" Class 6 Aggregate
TH 19 Driveway/Truck Apron Pavement - 8" Concrete / 6" Class 6 Aggregate
Local & Frontage Road Pavement - 5" Bituminous / 6" Class 6 Aggregate
(2) Assumed 6" concrete / 6" aggregate base class 6.
(3) Parking Areas, City will pay 10% of total parking area and MnDOT will pay 90%.
(4) Signal Systems: Saratoga - 50/50, Main - MnDOT, Bruce St - 50/50

(5) Assumed 20% MnDOT cost and 80% City cost.
(6) Includes reinforcement bars.
(7) Lighting located on City streets; Cost split 4 for City and 8 for MnDOT.
(8) Based on estimate provided from City.
(9) Based on preliminary estimate and estimate provided from City. Includes Bruce Street utilities cost.
(10) Includes parking lot pavement, earthwork, curb & gutter, removals, striping, and erosion control
(11) Includes pavement and removal for mill and overlay