



ENGINEER'S PRELIMINARY COST ESTIMATE
MESENBRINK SUBDIVISION - MANKATO, MINNESOTA
 BMI Project No.: 0M1.128460

Item No.	MnDOT Item No.	Item	Notes	Estimated Quantity	Unit	Unit Price	Amount
1	2021.501	MOBILIZATION		1	LS	\$135,377.61	\$135,377.61
2	2104.502	REMOVE STREET LIGHT FIXTURE		2	EA	\$1,000.00	\$2,000.00
3	2104.503	REMOVE CURB AND GUTTER		310	LF	\$4.00	\$1,240.00
4	2104.504	REMOVE BITUMINOUS PAVEMENT		650	SY	\$6.00	\$3,900.00
5	2105.507	POND EXCAVATION (P)	(1) (5)	25300	CY	\$3.00	\$75,900.00
6	2105.507	TOPSOIL STRIP (EV) (P)	(2)	20000	CY	\$3.00	\$60,000.00
7	2105.507	COMMON EXCAVATION (EV) (P)	(3) (5)	2150	CY	\$3.00	\$6,450.00
8	2105.507	SELECT GRANULAR BORROW (CV) (P)		5150	CY	\$25.00	\$128,750.00
9	2105.604	GEOGRID		17200	SY	\$2.25	\$38,700.00
10	2106.507	COMMON EMBANKMENT (CV) (P)	(4)	23000	CY	\$3.00	\$69,000.00
11	2211.509	AGGREGATE BASE, CLASS 5 (CV) (P)		7250	CY	\$32.00	\$232,000.00
12	2360.504	TYPE SP 12.5 WEAR CRS MIX (3,C) 3.0" THICK (TEMPORARY CUL-DE-SAC)		860	SY	\$17.25	\$14,835.00
13	2360.504	TYPE SP 12.5 WEAR CRS MIX (3,C) 1.5" THICK (STREET WEAR COURSE)		12800	SY	\$10.25	\$131,200.00
14	2360.504	TYPE SP 12.5 NON WEAR CRS MIX (3,C) 1.5" THICK (2 LIFTS) (STANDARD DUTY SECTION)		11625	SY	\$9.25	\$107,531.25
15	2360.504	TYPE SP 12.5 NON WEAR CRS MIX (3,C) 2.0" THICK (2 LIFTS) (HEAVY DUTY SECTION)		13925	SY	\$11.75	\$163,618.75
16	2501.502	15" RC PIPE APRON		1	EA	\$1,750.00	\$1,750.00
17	2501.502	24" RC PIPE APRON		1	EA	\$2,750.00	\$2,750.00
18	2501.502	30" RC PIPE APRON		4	EA	\$3,500.00	\$14,000.00
19	2501.502	36" RC PIPE APRON		2	EA	\$4,500.00	\$9,000.00
20	2501.502	48" RC PIPE APRON		1	EA	\$6,000.00	\$6,000.00
21	2501.502	51" X 31" RC ARCH PIPE APRON		1	EA	\$6,500.00	\$6,500.00
22	2502.503	6" PERF PVC PIPE DRAIN, SDR 35		5450	LF	\$14.50	\$79,025.00
23	2502.602	6" PVC PIPE DRAIN CLEAN-OUT		20	EA	\$350.00	\$7,000.00
24	2503.503	12" RC PIPE SEWER DESIGN 3006		10	LF	\$65.00	\$650.00
25	2503.503	15" RC PIPE SEWER DESIGN 3006		419	LF	\$70.00	\$29,330.00
26	2503.503	18" RC PIPE SEWER DESIGN 3006		44	LF	\$80.00	\$3,520.00
27	2503.503	24" RC PIPE SEWER DESIGN 3006		308	LF	\$115.00	\$35,420.00
28	2503.503	30" RC PIPE SEWER DESIGN 3006		916	LF	\$175.00	\$160,300.00
29	2503.503	36" RC PIPE SEWER DESIGN 3006		252	LF	\$225.00	\$56,700.00
30	2503.503	48" RC PIPE SEWER DESIGN 3006		136	LF	\$325.00	\$44,200.00
31	2503.503	51" X 31" RC ARCH PIPE		299	LF	\$400.00	\$119,600.00
32	2503.602	CONNECT TO EXISTING STORM SEWER		1	EA	\$1,000.00	\$1,000.00
33	2503.603	12" PIPE SEWER (STORM)		101	LF	\$50.00	\$5,050.00
34	2503.603	15" PIPE SEWER (STORM)		148	LF	\$60.00	\$8,880.00
35	2503.603	18" PIPE SEWER (STORM)		52	LF	\$70.00	\$3,640.00
36	2503.603	24" PIPE SEWER (STORM)		40	LF	\$90.00	\$3,600.00
37	2503.603	30" PIPE SEWER (STORM)		77	LF	\$125.00	\$9,625.00
38	2503.603	36" PIPE SEWER (STORM)		453	LF	\$175.00	\$79,275.00
39	2506.602	STORM SEWER CASTING ASSEMBLY		27	EA	\$850.00	\$22,950.00
40	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020		18.5	LF	\$600.00	\$11,100.00
41	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020		23.4	LF	\$850.00	\$19,890.00
42	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020		15.8	LF	\$1,200.00	\$18,960.00
43	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 84-4020		14.7	LF	\$1,750.00	\$25,725.00
44	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4022		13.6	LF	\$600.00	\$8,160.00
45	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4022		33.4	LF	\$850.00	\$28,390.00
46	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4022		6.2	LF	\$1,200.00	\$7,440.00
47	2506.602	CONSTRUCT DRAINAGE STRUCTURE MANKATO STD. 3		6	EA	\$3,000.00	\$18,000.00
48	2506.602	CONSTRUCT DRAINAGE STRUCTURE SPECIAL 1		1	EA	\$13,500.00	\$13,500.00
49	2511.507	RANDOM RIPRAP CLASS III/A		383	CY	\$80.00	\$30,640.00
50	2521.518	3" BITUMINOUS WALK		21275	SF	\$2.75	\$58,506.25
51	2521.518	4" CONCRETE WALK		12160	SF	\$7.50	\$91,200.00
52	2521.518	6" CONCRETE WALK		2225	SF	\$16.00	\$35,600.00
53	2531.503	CONCRETE CURB & GUTTER DESIGN B418		690	LF	\$18.00	\$12,420.00
54	2531.503	CONCRETE CURB & GUTTER DESIGN B424		925	LF	\$22.00	\$20,350.00
55	2531.503	CONCRETE CURB & GUTTER DESIGN B618		4850	LF	\$18.00	\$87,300.00
56	2531.504	4" CONCRETE MEDIAN		710	SY	\$55.00	\$39,050.00
57	2531.504	8" CONCRETE DRIVEWAY		455	SY	\$80.00	\$36,400.00
58	2531.618	TRUNCATED DOMES		268	SF	\$55.00	\$14,740.00
59	2545.502	LIGHTING UNIT TYPE E		14	EA	\$3,000.00	\$42,000.00
60	2545.502	LIGHTING UNIT TYPE SPECIAL		3	EA	\$3,750.00	\$11,250.00
61	2545.502	LUMINAIRE (LED)		20	EA	\$500.00	\$10,000.00
62	2545.502	LIGHT FOUNDATION DESIGN STEEL E		17	EA	\$1,015.00	\$17,255.00
63	2545.502	INSTALL LIGHTING SERVICE CABINET (MANKATO 100 AMP)		1	EA	\$3,500.00	\$3,500.00
64	2545.502	EQUIPMENT PAD		1	EA	\$3,000.00	\$3,000.00
65	2545.503	2" NON-METALLIC CONDUIT		2555	LF	\$9.00	\$22,995.00
66	2545.503	UNDERGROUND WIRE 1/C #6 AWG		7665	LF	\$3.00	\$22,995.00
67	2545.503	GROUNDWIRE 1/C #8 INS. GR.		2555	LF	\$1.40	\$3,577.00
68	2557.502	ELECTRICAL GROUND		9	EA	\$225.00	\$2,025.00
69	2563.601	TRAFFIC CONTROL		1	LS	\$15,000.00	\$15,000.00
70	2564.502	OBJECT MARKER		3	EA	\$150.00	\$450.00
71	2564.518	SIGN PANELS TYPE C		130	SF	\$125.00	\$16,250.00
72	2564.518	SIGN PANELS TYPE SPECIAL		1	EA	\$2,000.00	\$2,000.00
73	2565.602	TRANSFORMER AND SERVICE EQUIPMENT (DESIGN BY OTHERS)		1	EA	\$5,000.00	\$5,000.00



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74	2571.524	DECIDUOUS TREE 2" CAL B&B - BICOLOR OAK		28	TREE	\$750.00	\$21,000.00
75	2571.524	DECIDUOUS TREE 2" CAL B&B - DISCOVERY ELM		27	TREE	\$750.00	\$20,250.00
76	2571.524	DECIDUOUS TREE 2" CAL B&B - HACKBERRY		23	TREE	\$750.00	\$17,250.00
77	2571.524	DECIDUOUS TREE 2" CAL B&B - HONEY LOCUST		26	TREE	\$750.00	\$19,500.00
78	2573.501	STORM DRAIN INLET PROTECTION		24	EA	\$250.00	\$6,000.00
79	2573.501	STABILIZED CONSTRUCTION EXIT		1	EA	\$2,500.00	\$2,500.00
80	2573.503	SILT FENCE, TYPE MS		4800	LF	\$3.25	\$15,600.00
81	2574.508	FERTILIZER TYPE 3		2580	LB	\$2.50	\$6,450.00
82	2575.504	ROLLED EROSION PREVENTION CATEGORY 20		15000	SY	\$2.50	\$37,500.00
83	2575.505	SEEDING		8.6	AC	\$1,000.00	\$8,600.00
84	2575.508	SEED MIXTURE 25-141		200	LB	\$4.00	\$800.00
85	2575.508	SEED MIXTURE 33-261		100	LB	\$4.00	\$400.00
86	2575.508	SEED MIXTURE 35-221		265	LB	\$4.00	\$1,060.00
87	2575.508	HYDRAULIC MULCH MATRIX		19000	LB	\$1.00	\$19,000.00
88	2582.503	4" SOLID LINE PAINT (WR)		4750	LF	\$1.60	\$7,600.00
89	2582.503	6" SOLID LINE PAINT (WR)		1765	LF	\$2.00	\$3,530.00
90	2582.503	24" SOLID LINE PAINT (WR)		100	LF	\$22.00	\$2,200.00
91	2582.503	4" BROKEN LINE PAINT (WR)		1150	LF	\$1.60	\$1,840.00
92	2582.503	6" BROKEN LINE PAINT (WR)		50	LF	\$1.60	\$80.00
93	2582.503	4" DOUBLE SOLID LINE PAINT (WR)		400	LF	\$3.20	\$1,280.00
94	2582.503	12" DOTTED LINE PREFORM PAINT		39	LF	\$22.00	\$858.00
95	2582.518	PAVEMENT MESSAGE PREFORM PAINT		16	EA	\$400.00	\$6,400.00
96	2582.518	CROSSWALK PREFORM PAINT		468	SF	\$22.00	\$10,296.00
TOTAL ESTIMATED CONSTRUCTION SUBTOTAL:							\$2,844,929.86
CONTINGENCIES (10%):							\$284,500.00
CONSTRUCTION ENGINEERING (CITY OF MANKATO) (4%):							\$113,800.00
TOTAL ESTIMATED PROJECT COST:							\$3,243,229.86

NOTES:

- (1) TOTAL EXCAVATED VOLUME INCLUDING TOPSOIL
- (2) ESTIMATED QUANTITY ASSUMES 2-FEET OF TOPSOIL REMOVAL OVER ALL PROPOSED RIGHT-OF-WAY, EXCESS TOPSOIL TO REMAIN WITHIN THE SUBDIVIDED LOTS; LOCATION TO BE COORDINATED WITH OWNER
- (3) ESTIMATED QUANTITY - EXCAVATION IN THE RIGHT-OF-WAY BELOW THE ASSUMED 2-FEET OF TOPSOIL STRIPPING, DOES NOT INCLUDE PIPE AND MANHOLE SPOILS
- (4) ESTIMATED QUANTITY - RAW FILL VOLUME WITH THE ASSUMED 2-FEET OF TOPSOIL REMOVED, SUITABLE EXCAVATED MATERIAL CAN BE USED DEPENDENT ON APPLICATION
- (5) ALL MATERIAL TO STAY WITHIN SUBDIVISION TO BE USED FOR RIGHT-OF-WAY COMMON EMBANKMENT OR WITHIN THE SUBDIVIDED LOTS; LOCATION TO BE COORDINATED WITH OWNER