

WE HEREBY CERTIFY THAT THE PLAN, SPECIFICATIONS OR REPORT THAT I AM A SIGNED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

BY	RESIDENCE DESCRIPTION	DATE

DATE:	JULY 2023
SCALE:	AS SHOWN
DRAWN BY:	AMM
CHECKED BY:	NMM
JOB NUMBER:	2023-1184

CHICKASAW SEWER EXTENSION
CITY OF BREEZY POINT
BREEZY POINT, MINNESOTA
OPTION 1 - GRAVITY LINE

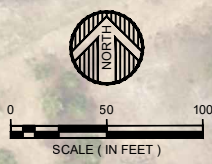
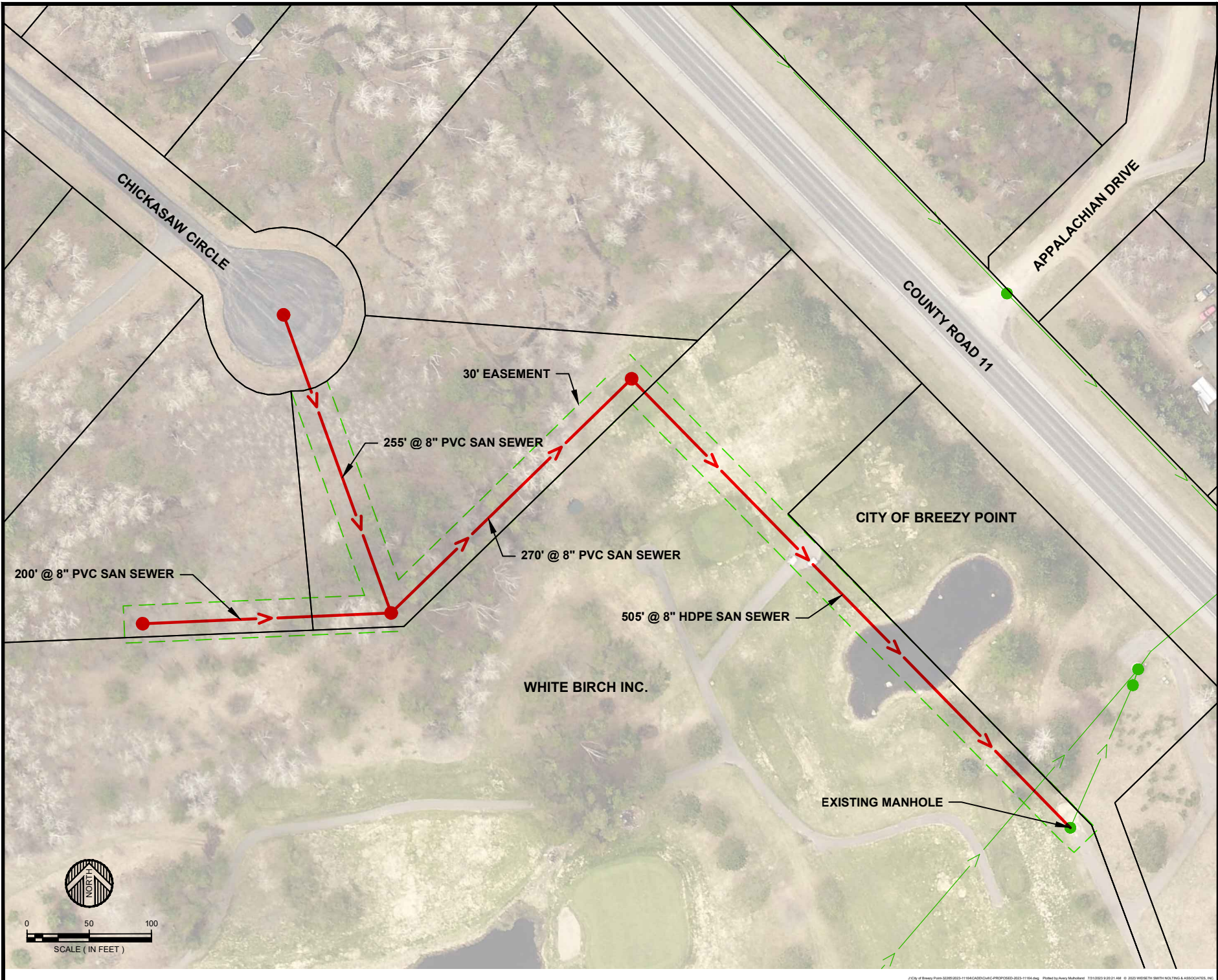
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CHICKASAW SEWER EXTENSION

OPTION 1 - GRAVITY LINE

Breezy Point, MN

ITEM NO.	SPEC NO.	ITEM DESCRIPTION	CONTRACT QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	2021.501	MOBILIZATION	1	LUMP SUM	\$4,000.00	\$4,000.00
2	2101.505	CLEARING	0.8	ACRE	\$5,000.00	\$4,000.00
3	2101.505	GRUBBING	0.8	ACRE	\$2,500.00	\$2,000.00
4	2104.504	REMOVE BITUMINOUS PAVEMENT	65	SQ YD	\$6.50	\$422.50
5	2360.509	TYPE SP 9.5 WEARING COURSE MIX (3,C)	6.25	TON	\$100.00	\$625.00
6	2360.509	TYPE SP 12.5 NON-WEARING COURSE MIX (3,B)	8.25	TON	\$90.00	\$742.50
7	2503.503	8" PVC PIPE SEWER	1425	LIN FT	\$70.00	\$99,750.00
8	2503.602	8"X4" PVC WYE	8	EACH	\$500.00	\$4,000.00
9	2503.602	CONNECT TO EXISTING SANITARY SEWER	1	EACH	\$3,500.00	\$3,500.00
10	2503.603	4" PVC SANITARY SERVICE PIPE	320	LIN FT	\$60.00	\$19,200.00
11	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	5	LUMP SUM	\$5,500.00	\$27,500.00
12	2573.503	SILT FENCE, TYPE MS	800	LIN FT	\$2.50	\$2,000.00
13	2575.505	SEEDING	0.8	ACRE	\$1,100.00	\$880.00
14	2575.508	SEED MIXTURE 25-151	320	POUND	\$7.00	\$2,240.00
15	2574.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	256	POUND	\$2.50	\$640.00
16	2575.508	HYDRAULIC BONDED FIBER MATRIX	3120	POUND	\$3.00	\$9,360.00
ESTIMATED CONSTRUCTION COST:						\$180,860.00
CONTINGENCIES (15%):						\$27,129.00
DESIGN:						\$18,086.00
CONSTRUCTION SERVICES:						\$21,704.00
TOTAL PROJECT COST:						\$247,800.00



BY: _____
 CHECKED BY: _____
 DATE: _____
 I HEREBY CERTIFY THAT THE PLAN, SPECIFICATIONS OR REPORT THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

REVISIONS DESCRIPTION	DATE	BY	CHKD

DATE: JULY 2023
 SCALE: AS SHOWN
 DRAWN BY: AMM
 CHECKED BY: NMM
 JOB NUMBER: 2023-1184

CHICKASAW SEWER EXTENSION
 CITY OF BREEZY POINT
 BREEZY POINT, MINNESOTA
 OPTION 2 - DIRECTIONAL DRILL

SHEET NO. **OPTN. 2**

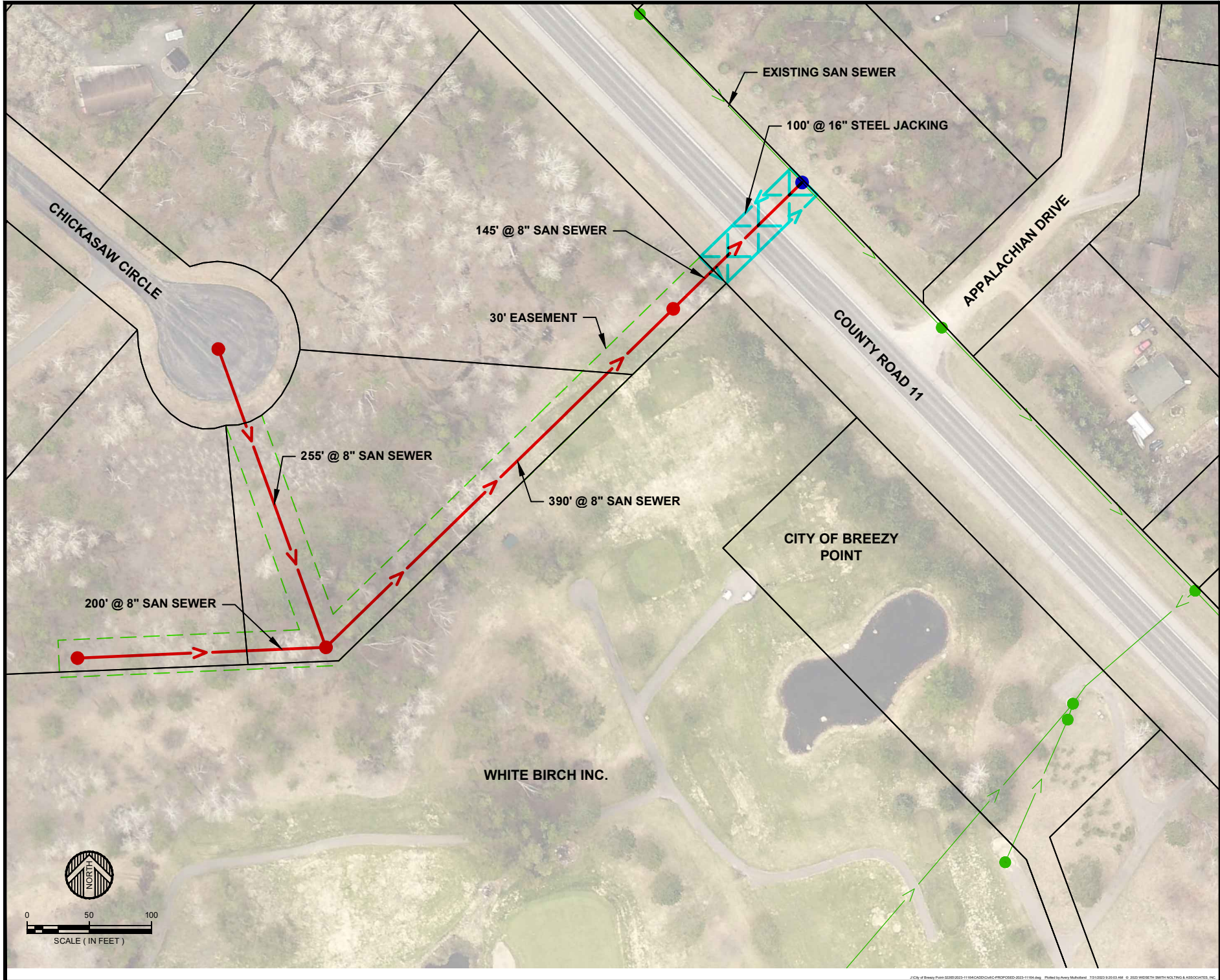
CHICKASAW SEWER EXTENSION

OPTION 2- DIRECTIONAL DRILL

Breezy Point, MN

ITEM NO.	SPEC NO.	ITEM DESCRIPTION	CONTRACT QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	2021.501	MOBILIZATION	1	LUMP SUM	\$4,000.00	\$4,000.00
2	2101.505	CLEARING	0.4	ACRE	\$5,000.00	\$2,000.00
3	2101.505	GRUBBING	0.4	ACRE	\$2,500.00	\$1,000.00
4	2104.504	REMOVE BITUMINOUS PAVEMENT	65	SQ YD	\$6.50	\$422.50
5	2360.509	TYPE SP 9.5 WEARING COURSE MIX (3,C)	6.25	TON	\$100.00	\$625.00
6	2360.509	TYPE SP 12.5 NON-WEARING COURSE MIX (3,B)	8.25	TON	\$90.00	\$742.50
7	2503.503	8" PVC PIPE SEWER	800	LIN FT	\$70.00	\$56,000.00
8	2503.602	8"X4" PVC WYE	8	EACH	\$500.00	\$4,000.00
9	2503.602	CONNECT TO EXISTING SANITARY SEWER	1	EACH	\$3,500.00	\$3,500.00
10	2503.603	4" PVC SANITARY SERVICE PIPE	320	LIN FT	\$60.00	\$19,200.00
11	2503.603	8" HDPE PIPE SEWER-DIRECTIONAL DRILLED	555	LIN FT	\$140.00	\$77,700.00
12	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	4	EACH	\$5,500.00	\$22,000.00
13	2573.503	SILT FENCE, TYPE MS	610	LIN FT	\$2.50	\$1,525.00
14	2575.505	SEEDING	0.4	ACRE	\$1,100.00	\$440.00
15	2575.508	SEED MIXTURE 25-151	160	POUND	\$7.00	\$1,120.00
16	2574.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	120	POUND	\$2.50	\$300.00
17	2575.508	HYDRAULIC BONDED FIBER MATRIX	1560	POUND	\$3.00	\$4,680.00

ESTIMATED CONSTRUCTION COST:	\$199,255.00
CONTINGENCIES (15%):	\$29,889.00
DESIGN:	\$19,926.00
CONSTRUCTION SERVICES:	\$23,911.00
TOTAL PROJECT COST:	\$273,000.00



WE HEREBY CERTIFY THAT THE PLAN, SPECIFICATIONS OR REPORT THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE:	JULY 2023
SCALE:	AS SHOWN
DRAWN BY:	AMM
CHECKED BY:	NMM
JOB NUMBER:	2023-11184

REVISIONS DESCRIPTION	DATE	REV#

CHICKASAW SEWER EXTENSION
CITY OF BREEZY POINT
BREEZY POINT, MINNESOTA
OPTION 3 - JACKING

SHEET NO.
OPTN. 3

CHICKASAW SEWER EXTENSION

OPTION 3 - JACKING

Breezy Point, MN

ITEM NO.	SPEC NO.	ITEM DESCRIPTION	CONTRACT QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	2021.501	MOBILIZATION	1	LUMP SUM	\$4,000.00	\$4,000.00
2	2101.505	CLEARING	0.5	ACRE	\$5,000.00	\$2,500.00
3	2101.505	GRUBBING	0.5	ACRE	\$2,500.00	\$1,250.00
4	2104.504	REMOVE BITUMINOUS PAVEMENT	65	SQ YD	\$6.50	\$422.50
5	2360.509	TYPE SP 9.5 WEARING COURSE MIX (3,C)	6.25	TON	\$100.00	\$625.00
6	2360.509	TYPE SP 12.5 NON-WEARING COURSE MIX (3,B)	8.25	TON	\$90.00	\$742.50
7	2503.503	8" PVC PIPE SEWER	1080	LIN FT	\$70.00	\$75,600.00
8	2503.602	8"X4" PVC WYE	8	EACH	\$500.00	\$4,000.00
9	2503.603	4" PVC SANITARY SERVICE PIPE	320	LIN FT	\$65.00	\$20,800.00
10	2503.603	16" STEEL CASING PIPE (JACKED)	100	LIN FT	\$900.00	\$90,000.00
11	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	4	EACH	\$5,500.00	\$22,000.00
12	2506.602	BUILD DRAINAGE STRUCTURE DESIGN 48-4020 OVER EXISTING SEWER LINE	1	EACH	\$8,500.00	\$8,500.00
13	2563.601	TRAFFIC CONTROL	1	LUMP SUM	\$2,000.00	\$2,000.00
14	2573.503	SILT FENCE, TYPE MS	725	LIN FT	\$2.50	\$1,812.50
15	2575.505	SEEDING	0.5	ACRE	\$1,100.00	\$550.00
16	2575.508	SEED MIXTURE 25-151	196	POUND	\$7.00	\$1,372.00
17	2574.508	FERTILIZER TYPE 3 (10-10-20) (SEEDING)	147	POUND	\$2.50	\$367.50
18	2575.508	HYDRAULIC BONDED FIBER MATRIX	1911	POUND	\$3.00	\$5,733.00

ESTIMATED CONSTRUCTION COST:	\$242,275.00
CONTINGENCIES (15%):	\$36,342.00
DESIGN:	\$24,228.00
CONSTRUCTION SERVICES:	\$29,073.00
TOTAL PROJECT COST:	\$332,000.00