



Purchasing Division
Finance Department
Room 120
411 West First Street
Duluth, Minnesota 55802

218-730-5340
purchasing@duluthmn.gov

Addendum 1
Solicitation 24-99358
2024 Street Preservation Project, City Project 2090

This addendum serves to notify all bidders of the following changes to the solicitation documents:

1. CHANGES TO INVITATION TO BID:

BIDS DUE date is extended from Wednesday March 27th, 2024 at 2:00 pm to **Thursday March 28th at 10:00 am.**

2. CHANGES TO SPECIAL PROVISIONS:

a. SP-17 (1908) STREET SWEEPER

ADD:

METHOD OF MEASUREMENT

Street sweeping required during sediment cleanup, milling or any operation during project shall not be measured for payment and shall be considered incidental.

b. SP-19 (2215) HAUL FULL DEPTH RECLAMATION (LV)

ADD:

CONSTRUCTION REQUIREMENTS:

The City shall retain ownership of reclaim materials. All materials must be hauled to one of the listed locations.

3. CHANGES TO DRAWING:

- a. Sheets 1-15 and 249 are deleted and replaced with sheet 1-15-REV-1 and 249-REV 1

4. CHANGES TO EXHIBIT A

A new Exhibit A is provided.

Please acknowledge receipt of this Addendum by checking the acknowledgement box within the www.bidexpress.com solicitation.

Posted: **March 18, 2024**

3:43 PM

1/29/2024

g:\00\00616\00616207\cadd\construction documents\00616207 details.dwg

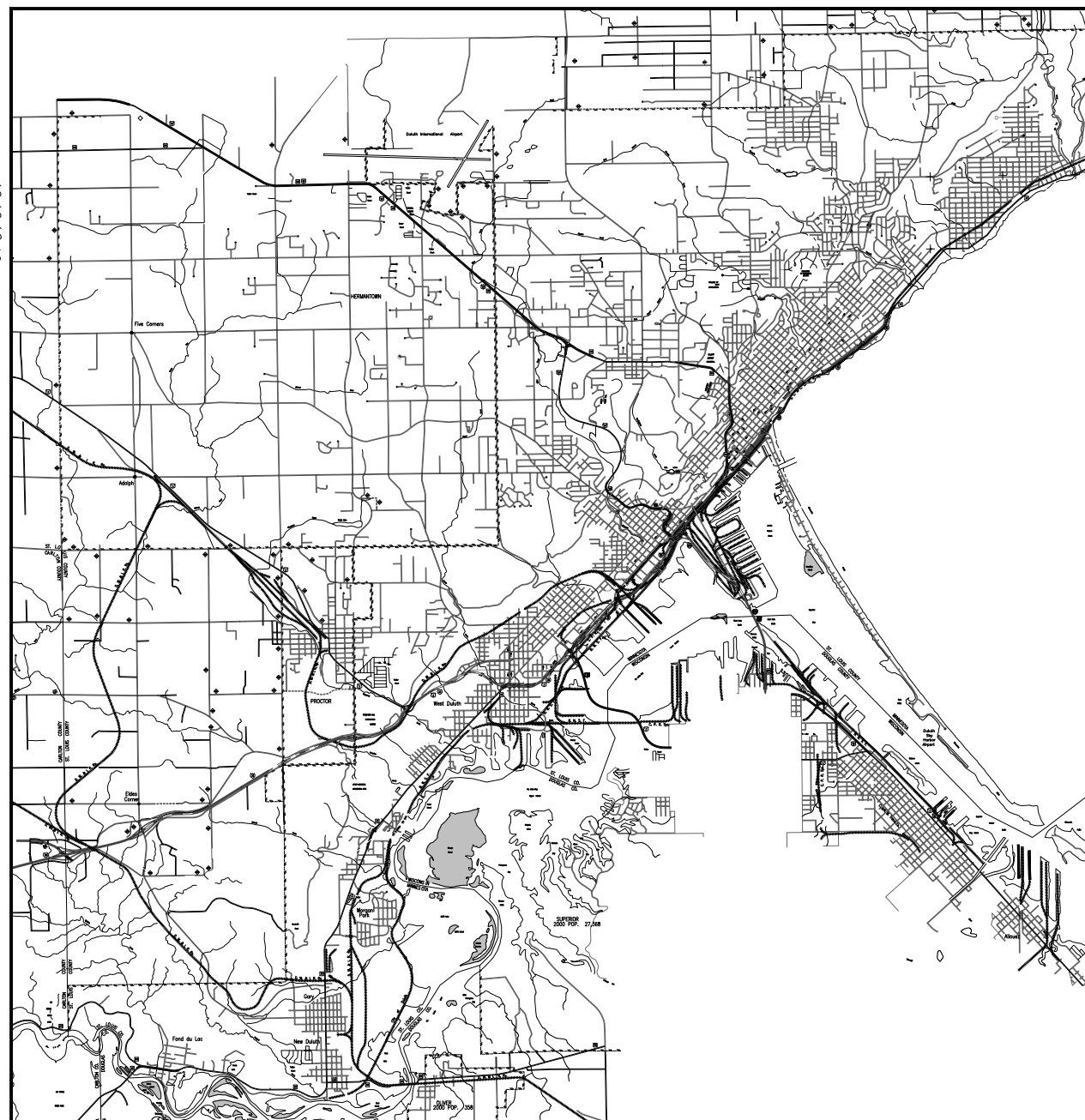
CITY OF DULUTH

DEPARTMENT OF PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

2024 STREET PRESERVATION PROJECT

CONSTRUCTION PLANS FOR: MILLING, FULL DEPTH RECLAMATION, BITUMINOUS OVERLAY, CONCRETE CURB & GUTTER,
CONCRETE DRIVEWAY, CONCRETE WALK, ADA IMPROVEMENTS AND STORMWATER IMPROVEMENTS.

CITY PROJECT NO. 2090



CITY OF DULUTH PROJECT NO. 2090

GROSS LENGTH . . . 72,568 . . FEET . 13,740 MILES
BRIDGES—LENGTH . . . N/A . FEET . N/A . MILES
EXCEPTIONS—LENGTH . . 0 . FEET . 0.000 MILES
NET LENGTH 72,568 . FEET . 13,740 MILES

BASIS OF DATUM

1. HORIZONTAL DATUM IS SAINT LOUIS COUNTY TRANSVERSE MERCATOR 1996 (SLCTM_96)
2. VERTICAL DATUM IS NAVD 88

NOTE

FOR ALL PROJECT SITES SEE ATTACHED STREET INDEX ON SHEETS 18-19 AND MAPS ON SHEETS 20-23

TRAFFIC CONTROL NOTE

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM AND BE INSTALLED IN ACCORDANCE WITH THE CURRENT "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MnMUTCD), INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

PLAN REVISIONS		
DATE	SHEET NO.	APPROVER
3/15/24	2-15, 249	WRT

SCALES
PLAN 1"=40', 1"=20'
SITE MAP 1"=12000'



GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. AVAILABLE AT:
<http://www.dot.state.mn.us/pre-letting/spec/index.html>

THE 2019 EDITION OF THE CITY OF DULUTH PUBLIC WORKS AND UTILITIES DEPARTMENT CONSTRUCTION STANDARDS AND SUPPLEMENTS OR ADDENDUMS SHALL APPLY.
AVAILABLE AT:
<http://www.duluthmn.gov/engineering/standard-construction-specifications/>

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

WARNING:
LOCATION OF UNDERGROUND UTILITIES TO BE VERIFIED BY CONTRACTOR. CALL BEFORE DIGGING. GOPHER STATE ONE CALL 1-800-252-1166 REQUIRED BY LAW

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-15	STATEMENT OF ESTIMATED QUANTITIES
16	SEQ NOTES, STD PLATES/DETAILS
17	LEGEND AND GENERAL NOTES
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47-48	LEAD SERVICE RESTORATION NOTES & TABULATIONS
49-54	TYPICAL SECTIONS
55-72	OVERLAY: TABULATIONS, TYPICAL SECTIONS, CONSTRUCTION PLANS.
73-234	MILL & OVERLAY: TABULATIONS, TYPICAL SECTIONS, CONSTRUCTION PLANS.
235-274	FULL DEPTH RECLAMATION: TABULATIONS, TYPICAL SECTIONS, CONSTRUCTION PLANS.
275-296	TRAFFIC CONTROL

THIS PLAN CONTAINS 296 SHEETS

DESIGN TEAM: J.GOETZMAN, W.TAYLOR, C.WEBER, C.JOHNSON

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

JEFF S. GOETZMAN

PROJECT ENGINEER (TYPED OR PRINTED NAME)

Jeff S. Goetzman MARCH 5, 2024 26422
PROJECT ENGINEER DATE LIC. NO.

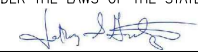
CITY APPROVAL

DocuSigned by:
Cari Pedersen 3/6/2024
APPROVED 50BDF20E63081EA PROJECT ENGINEER OF TRANSPORTATION DATE


DocuSigned by:
Howard Smith, P.E. 3/6/2024
APPROVED 10CF000DC92143E PROJECT ENGINEER OF UTILITIES DATE

DocuSigned by:
Cindy Voigt 3/6/2024
APPROVED 3CE89AC02DB0430 CITY ENGINEER DATE

STATEMENT OF ESTIMATED QUANTITIES						LEAD SERVICE RESTORATION WORK	OVERLAY							MILL & OVERLAY	
ITEM NO.	SEQ NOTES	SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY		COVENT PL	E 10TH ST	N 38TH AVE W	N 41ST AVE W	57TH AVE W	N 56TH AVE W	SPIRIT DR	VINLAND ALLEY	KINGSTON ST
1		2021.501	MOBILIZATION	LUMP SUM	1	0	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
2		2101.501	CLEARING & GRUBBING	ACRE	0.21	0	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
3		2104.502	REMOVE CATCH BASIN	EACH	14	0	0	0	0	0	0	0	0	0	0
4		2104.502	REMOVE STRUCTURE	EACH	9	0	0	0	0	0	0	0	2	0	0
5		2104.502	REMOVE CASTING	EACH	81	0	0	0	0	2	0	0	0	6	0
6		2104.502	REMOVE PIPE APRON	EACH	12	0	0	0	0	0	0	0	1	0	0
7		2104.502	REMOVE VALVE BOX	EACH	5	0	0	0	0	0	0	0	0	0	0
8	1	2104.502	SALVAGE SIGN	EACH	1	0	0	0	0	0	0	0	0	0	0
9	2	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	13596	1475	0	38	24	0	200	203	370	0	35
10		2104.503	SAWING BITUMINOUS PAVEMENT	LIN FT	3816	0	0	0	0	0	0	0	0	121	25
11	3	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	LIN FT	22182	1450	0	0	272	0	0	63	75	41	2369
12		2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	1809	0	0	0	0	0	0	0	136	0	0
13	3	2104.503	REMOVE CURB & GUTTER	LIN FT	24485	0	0	38	258	0	176	192	323	26	1793
14	3, 4	2104.504	REMOVE PAVEMENT	SQ YD	36	0	0	0	0	0	0	0	0	0	0
15	3	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	2899	0	0	0	136	0	1	183	105	12	201
16	3	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	4869	0	0	0	2	0	0	8	9	23	79
17		2104.507	REMOVE CONCRETE STEPS	CU YD	19	0	0	0	0	0	0	0	0	0	0
18	2, 3	2104.518	REMOVE CONCRETE WALK	SQ FT	83854	0	0	2204	1021	0	0	922	624	0	165
19	3, 6	2104.618	REMOVE STONE PAVERS	SQ FT	22	0	0	0	0	0	0	0	0	0	0
20		2104.618	SALVAGE STONE PAVERS	SQ FT	28	0	0	0	0	0	0	0	0	0	0
21		2106.507	EXCAVATION - COMMON	CU YD	1339	550	2	0	3	1	0	0	113	108	0
22		2108.504	GEOTEXTILE FABRIC TYPE 7	SQ YD	374	0	0	0	0	0	0	0	0	0	0
23		2118.507	AGGREGATE SURFACING (CV) CLASS 1	CU YD	536	0	6	0	0	0	0	0	0	0	0
24		2118.507	AGGREGATE SURFACING (CV) CLASS 5	CU YD	765	440	0	0	3	1	0	0	23	108	0
25		2123.510	MOTOR GRADER	HOUR	16	0	0	0	0	0	0	0	16	0	0
26		2123.510	TAMPING ROLLER	HOUR	16	0	0	0	0	0	0	0	16	0	0
27	5	2131.506	CALCIUM CHLORIDE SOLUTION	GALLON	7823	0	0	0	0	0	0	0	0	0	0
28	6,7	2215.504	FULL DEPTH RECLAMATION	SQ YD	31273	0	0	0	0	0	0	0	0	0	0
29	8	2215.507	HAUL FULL DEPTH RECLAMATION (LV)	CU YD	2659	0	0	0	0	0	0	0	0	0	0
30		2232.504	MILL BITUMINOUS SURFACE (1.0")	SQ YD	43093	0	0	0	0	0	0	0	0	7772	370
31		2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	69866	0	0	0	0	0	0	0	0	0	0
32		2232.604	MILL PAVEMENT	SQ YD	48878	0	0	0	0	0	0	0	0	0	0
33	9	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	10427	0	41	45	39	51	96	200	139	50	402
34	9	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)	TON	19871	145	102	109	95	125	230	481	336	241	993
35	9	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	TON	6752	0	0	0	0	0	0	0	0	0	0
36		2411.603	CONCRETE STEPS	CU YD	19	0	0	0	0	0	0	0	0	0	0
37		2501.502	12" CS PIPE APRON	EACH	56	0	0	0	0	0	0	0	0	0	0
38		2501.502	12" RC PIPE APRON	EACH	9	0	0	0	0	0	0	0	0	0	0
39		2501.502	18" RC PIPE APRON	EACH	1	0	0	0	0	0	0	0	0	0	0
40		2501.502	21" RC PIPE APRON	EACH	1	0	0	0	0	0	0	0	1	0	0
41		2501.502	22" SPAN RC PIPE-ARCH APRON	EACH	2	0	0	0	0	0	0	0	0	0	0
42	22	2501.602	MIDSLOPE PIPE ANCHOR	EACH	2	0	0	0	0	0	0	0	0	0	0
43		2501.603	CLEAN DRAINAGE DITCH	LIN FT	455	0	0	0	0	0	0	0	0	0	0
44	21	2502.603	SUMP CONNECTION	EACH	23	0	0	0	0	0	0	0	0	11	0
45		2502.503	6" PERF PE PIPE DRAIN	LIN FT	1255	0	0	0	0	0	0	0	0	665	0

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 SIGNATURE:  JEFF S. GOETZMAN
 TYPE NAME

DATE: 03/05/2024
 LIC. NO: 26422




CITY OF DULUTH
 ENGINEERING DIVISION
 411 W. 1ST ST. STE. 240
 DULUTH, MN 55802

CITY OF DULUTH 2024 STREET PRESERVATION
 CITY PROJECT NO.: 2090
 STATE AID PROJECT NO.: N/A

DRAWN BY: WRT/CMW/CRJ
 STATEMENT OF ESTIMATED QUANTITIES - 1.1
 SHEET NO. 2 OF 296

STATEMENT OF ESTIMATED QUANTITIES						LEAD SERVICE RESTORATION WORK	OVERLAY								MILL & OVERLAY	
ITEM NO.	SEQ. NOTES	SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY		COVENT PL	E 10TH ST	N 38TH AVE W	N 41ST AVE W	57TH AVE W	N 56TH AVE W	SPIRIT DR	VINLAND ALLEY	KINGSTON ST	N 54TH AVE E
46		2503.503	12" RC PIPE SEWER DES. 3006 CL V	LIN FT	729	0	0	0	0	0	0	0	45	0	0	
47		2503.503	15" RC PIPE SEWER DES. 3006 CL V	LIN FT	648	0	0	0	0	0	0	0	557	0	0	
48		2503.503	18" RC PIPE SEWER DES. 3006 CL V	LIN FT	510	0	0	0	0	0	0	0	0	0	0	
49		2503.503	21" RC PIPE SEWER DES. 3006 CL V	LIN FT	706	0	0	0	0	0	0	0	61	0	0	
50		2503.503	22" SPAN RC PIPE-ARCH SEWER CLASS IVA	LIN FT	41	0	0	0	0	0	0	0	0	0	0	
51		2503.503	30" RC PIPE SEWER DES. 3006 CL V	LIN FT	19	0	0	0	0	0	0	0	0	0	0	
52		2503.602	CONNECT INTO EXISTING SANITARY SEWER	EACH	3	0	0	0	0	0	0	0	0	0	0	
53		2503.603	PLUG & ABANDON PIPE SEWER	EACH	5	0	0	0	0	0	0	0	3	0	0	
54		2503.603	8" PVC SEWER PIPE	LIN FT	24	0	0	0	0	0	0	0	0	0	0	
55		2503.603	12" HDPE PIPE SEWER	LIN FT	703	0	0	0	0	0	0	0	0	0	0	
56		2503.603	16" HDPE PIPE SEWER	LIN FT	144	0	0	0	0	0	0	0	0	0	0	
57	10	2504.602	ADJUST VALVE BOX	EACH	13	0	0	0	0	0	1	0	0	2	0	
58	10	2504.602	ADJUST VALVE BOX (SPECIAL)	EACH	45	0	1	0	0	4	5	2	0	8	0	
59		2504.602	ADJUST CURB BOX	EACH	93	0	0	5	1	0	9	1	0	0	0	
60		2504.602	CONCRETE ENCASED VALVE BOX COLLAR	EACH	51	0	0	0	0	0	0	0	0	1	0	
61	11	2506.502	CASTING ASSEMBLY	EACH	138	0	0	0	0	2	0	0	9	6	0	
62		2506.502	CONST 48" DRAINAGE STRUCTURE DESIGN F	LIN FT	64.0	0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	0.0	
63		2506.502	CONST DRAINAGE STRUCTURE DESIGN 60-4020	LIN FT	17.9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
64		2506.503	CONST DRAINAGE STRUCTURE DESIGN SD-48	LIN FT	106.3	0	0.0	0.0	0.0	0.0	0.0	0.0	24.2	0.0	0.0	
65	23	2506.503	CONST DRAINAGE STRUCTURE DESIGN SPECIAL	EACH	9	0	0	0	0	0	0	0	0	0	0	
66	11	2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LIN FT	59	0	0	0	0	0	0	0	0	0	0	
67	24	2506.602	ADJUST FRAME RING & CASTING	EACH	129	0	0	0	2	0	0	5	0	7	0	
68	24	2506.602	ADJUST FRAME RING & CASTING (SPECIAL)	EACH	85	0	1	1	1	2	3	3	0	12	0	
69	12	2506.602	CONNECT INTO EXISTING STORM SEWER	EACH	11	0	0	0	0	0	0	0	0	2	0	
70	13	2506.602	CONNECT INTO EXISTING MH OR CB	EACH	11	0	0	0	0	0	0	0	1	3	0	
71	11	2506.602	CONCRETE ENCASED CASTING COLLAR	EACH	42	0	0	0	0	0	0	0	1	2	0	
72		2511.507	RIPRAP CLASS IV	CU YD	366	0	0	0	0	0	0	0	0	0	0	
73	14	2521.518	4" CONCRETE WALK	SQ FT	71339	1700	0	1985	859	235	0	922	77	0	79	
74	14	2521.518	6" CONCRETE WALK	SQ FT	15264	0	0	219	163	0	0	547	0	86	0	
75		2521.518	INTEGRAL SIDEWALK	SQ FT	5431	0	0	0	0	0	0	0	0	0	0	
76	15	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	28663	360	0	38	258	196	176	192	323	26	1793	
77	15	2531.503	CONCRETE CURB & GUTTER DESIGN B624 (MOD)	LIN FT	54	0	0	0	0	0	0	0	0	0	0	
78	15	2531.503	CONCRETE CURB DESIGN V8 (MOD)	LIN FT	77	0	0	20	0	0	0	0	0	0	0	
79	17	2531.504	7" CONCRETE DRIVEWAY PAVEMENT	SQ YD	3003	572	0	0	85	32	0	9	0	197	12	
80	17	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	1312	0	0	0	51	58	2	174	105	12	0	
81	15	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	36	0	0	0	0	0	0	0	0	0	0	
82		2531.618	TRUNCATED DOMES	SQ FT	1826	0	0	16	24	0	0	72	0	16	0	
83		2540.602	CONSTRUCT SURVEY MONUMENT	EACH	12	0	0	0	0	0	0	1	0	0	0	
84		2563.601	TRAFFIC CONTROL	LUMP SUM	1	0	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	
85	19	2564.602	INSTALL SIGN TYPE SPECIAL	EACH	4	0	0	0	0	0	0	0	0	0	0	
86		2573.602	EROSION CONTROL MOBILIZATION	LUMP SUM	1	0	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	
87		2574.507	BOULEVARD TOPSOIL BORROW	CU YD	65	0	0	0	0	0	2	0	0	0	0	
88	20	2575.602	SITE RESTORATION	EACH	64	0	1	1	1	1	1	1	1	1	1	
89		2582.503	24" SOLID LINE PAINT	LIN FT	55	0	0	0	0	0	0	0	0	0	0	
90		2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	3318	0	0	0	0	0	0	0	0	0	0	
91		2582.518	CROSSWALK PAINT	SQ FT	768	0	0	0	0	0	0	0	0	0	0	

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:  JEFF S. GOETZMAN
TYPE NAME

DATE: 03/05/2024
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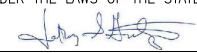


CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST. STE. 240
DULUTH, MN 55802

CITY OF DULUTH 2024 STREET PRESERVATION
CITY PROJECT NO.: 2090
STATE AID PROJECT NO.: N/A

DRAWN BY: WRT/CMW/CRJ
STATEMENT OF ESTIMATED QUANTITIES - 1.2
SHEET NO. 3 OF 296

STATEMENT OF ESTIMATED QUANTITIES						MILL & OVERLAY									
ITEM NO.	SEQ NOTES	SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	IDLEWILD ST	N 51ST AVE E	N 52ND AVE E	NORWOOD ST	CROSLY AVE	ONEIDA ST	VERMILLION RD	HARTLEY RD	WOODHAVEN LN	GARDEN ST
1		2021.501	MOBILIZATION	LUMP SUM	1	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
2		2101.501	CLEARING & GRUBBING	ACRE	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3		2104.502	REMOVE CATCH BASIN	EACH	14	0	0	0	0	5	0	0	0	0	0
4		2104.502	REMOVE STRUCTURE	EACH	9	0	0	0	0	0	0	0	0	0	0
5		2104.502	REMOVE CASTING	EACH	81	2	0	0	4	0	7	5	0	0	2
6		2104.502	REMOVE PIPE APRON	EACH	12	0	0	0	0	0	0	0	0	0	0
7		2104.502	REMOVE VALVE BOX	EACH	5	0	0	0	0	0	0	0	0	0	0
8	1	2104.502	SALVAGE SIGN	EACH	1	0	0	0	0	0	0	0	0	0	0
9	2	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	13596	89	0	37	0	0	0	562	0	0	1027
10		2104.503	SAWING BITUMINOUS PAVEMENT	LIN FT	3816	89	84	81	182	229	89	81	134	26	0
11	3	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	LIN FT	22182	1124	68	170	347	217	375	1245	69	13	32
12		2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	1809	0	0	0	0	0	0	0	0	0	0
13	3	2104.503	REMOVE CURB & GUTTER	LIN FT	24485	862	0	142	214	217	375	1623	69	13	823
14	3, 4	2104.504	REMOVE PAVEMENT	SQ YD	36	0	0	0	0	0	0	0	0	0	0
15	3	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	2899	65	0	33	21	19	0	100	0	0	180
16	3	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	4869	189	44	7	43	2	0	9	0	0	6
17		2104.507	REMOVE CONCRETE STEPS	CU YD	19	0	0	0	0	0	0	0	0	0	1
18	2, 3	2104.518	REMOVE CONCRETE WALK	SQ FT	83854	111	0	118	0	205	114	1475	0	0	4840
19	3, 6	2104.618	REMOVE STONE PAVERS	SQ FT	22	0	0	0	0	0	0	13	0	0	0
20		2104.618	SALVAGE STONE PAVERS	SQ FT	28	0	0	0	0	0	0	0	0	0	0
21		2106.507	EXCAVATION - COMMON	CU YD	1339	0	0	0	0	1	0	2	0	0	0
22		2108.504	GEOTEXTILE FABRIC TYPE 7	SQ YD	374	0	0	0	0	0	0	0	0	0	0
23		2118.507	AGGREGATE SURFACING (CV) CLASS 1	CU YD	536	0	6	0	0	0	0	0	0	0	0
24		2118.507	AGGREGATE SURFACING (CV) CLASS 5	CU YD	765	0	0	0	11	1	0	1	0	0	0
25		2123.510	MOTOR GRADER	HOUR	16	0	0	0	0	0	0	0	0	0	0
26		2123.510	TAMPING ROLLER	HOUR	16	0	0	0	0	0	0	0	0	0	0
27	5	2131.506	CALCIUM CHLORIDE SOLUTION	GALLON	7823	0	0	0	0	0	0	0	0	0	0
28	6,7	2215.504	FULL DEPTH RECLAMATION	SQ YD	31273	0	0	0	0	0	0	0	0	0	0
29	8	2215.507	HAUL FULL DEPTH RECLAMATION (LV)	CU YD	2659	0	0	0	0	0	0	0	0	0	0
30		2232.504	MILL BITUMINOUS SURFACE (1.0")	SQ YD	43093	4040	0	0	0	0	2406	4412	4148	0	0
31		2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	69866	0	651	2378	3163	3932	0	0	0	2807	0
32		2232.604	MILL PAVEMENT	SQ YD	48878	0	0	0	0	0	0	1146	0	0	5249
33	9	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	10427	202	33	119	160	197	120	278	207	140	262
34	9	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)	TON	19871	258	95	287	398	473	144	405	249	337	319
35	9	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	TON	6752	0	0	0	0	0	0	0	0	0	0
36		2411.603	CONCRETE STEPS	CU YD	19	0	0	0	0	0	0	0	0	0	1
37		2501.502	12" CS PIPE APRON	EACH	56	0	0	0	0	0	0	0	0	0	0
38		2501.502	12" RC PIPE APRON	EACH	9	0	0	0	0	0	0	0	0	0	0
39		2501.502	18" RC PIPE APRON	EACH	1	0	0	0	0	0	0	0	0	0	0
40		2501.502	21" RC PIPE APRON	EACH	1	0	0	0	0	0	0	0	0	0	0
41		2501.502	22" SPAN RC PIPE-ARCH APRON	EACH	2	0	0	0	0	0	0	0	0	0	0
42	22	2501.602	MIDSLOPE PIPE ANCHOR	EACH	2	0	0	0	0	0	0	0	0	0	0
43		2501.603	CLEAN DRAINAGE DITCH	LIN FT	455	0	0	0	0	0	0	0	0	0	0
44	21	2502.603	SUMP CONNECTION	EACH	23	0	0	0	0	0	0	0	0	0	0
45		2502.503	6" PERF PE PIPE DRAIN	LIN FT	1255	0	0	0	0	0	0	0	0	0	0

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 SIGNATURE:  JEFF S. GOETZMAN
 TYPE NAME

DATE: 03/05/2024
 LIC. NO: 26422




CITY OF DULUTH
 ENGINEERING DIVISION
 411 W. 1ST ST. STE. 240
 DULUTH, MN 55802

CITY OF DULUTH 2024 STREET PRESERVATION
 CITY PROJECT NO.: 2090
 STATE AID PROJECT NO.: N/A

DRAWN BY: WRT/CMW/CRJ
 STATEMENT OF ESTIMATED QUANTITIES - 2.1
 SHEET NO. 4 OF 296

STATEMENT OF ESTIMATED QUANTITIES						MILL & OVERLAY									
ITEM NO.	SEQ NOTES	SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	IDLEWILD ST	N 51ST AVE E	N 52ND AVE E	NORWOOD ST	CROSLY AVE	ONEIDA ST	VERMILLION RD	HARTLEY RD	WOODHAVEN LN	GARDEN ST
46		2503.503	12" RC PIPE SEWER DES. 3006 CL V	LIN FT	729	0	0	0	0	0	0	0	0	0	0
47		2503.503	15" RC PIPE SEWER DES. 3006 CL V	LIN FT	648	0	0	0	0	0	0	0	0	0	0
48		2503.503	18" RC PIPE SEWER DES. 3006 CL V	LIN FT	510	0	0	0	0	0	0	0	0	0	0
49		2503.503	21" RC PIPE SEWER DES. 3006 CL V	LIN FT	706	0	0	0	0	0	0	0	0	0	0
50		2503.503	22" SPAN RC PIPE-ARCH SEWER CLASS IVA	LIN FT	41	0	0	0	0	0	0	0	0	0	0
51		2503.503	30" RC PIPE SEWER DES. 3006 CL V	LIN FT	19	0	0	0	0	0	0	0	0	0	0
52		2503.602	CONNECT INTO EXISTING SANITARY SEWER	EACH	3	0	0	0	0	0	0	3	0	0	0
53		2503.603	PLUG & ABANDON PIPE SEWER	EACH	5	0	0	0	0	0	0	0	0	0	0
54		2503.603	8" PVC SEWER PIPE	LIN FT	24	0	0	0	0	0	0	24	0	0	0
55		2503.603	12" HDPE PIPE SEWER	LIN FT	703	0	0	0	0	0	0	0	0	0	0
56		2503.603	16" HDPE PIPE SEWER	LIN FT	144	0	0	0	0	0	0	0	0	0	0
57	10	2504.602	ADJUST VALVE BOX	EACH	13	0	0	0	0	0	0	5	0	0	0
58	10	2504.602	ADJUST VALVE BOX (SPECIAL)	EACH	45	2	0	0	2	0	1	1	0	0	3
59		2504.602	ADJUST CURB BOX	EACH	93	0	0	0	0	0	0	0	0	0	0
60		2504.602	CONCRETE ENCASED VALVE BOX COLLAR	EACH	51	0	0	0	0	1	0	0	0	0	0
61	11	2506.502	CASTING ASSEMBLY	EACH	138	2	0	0	4	0	7	5	0	0	2
62		2506.502	CONST 48" DRAINAGE STRUCTURE DESIGN F	LIN FT	64.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63		2506.502	CONST DRAINAGE STRUCTURE DESIGN 60-4020	LIN FT	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64		2506.503	CONST DRAINAGE STRUCTURE DESIGN SD-48	LIN FT	106.3	0.0	0.0	0.0	0.0	0.0	0.0	10.1	0.0	0.0	0.0
65	23	2506.503	CONST DRAINAGE STRUCTURE DESIGN SPECIAL	EACH	9	0	0	0	0	5	0	0	0	0	0
66	11	2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LIN FT	59	0	0	0	0	0	0	2	0	0	0
67	24	2506.602	ADJUST FRAME RING & CASTING	EACH	129	4	0	0	1	0	1	2	2	2	7
68	24	2506.602	ADJUST FRAME RING & CASTING (SPECIAL)	EACH	85	7	0	0	0	0	3	3	8	0	3
69	12	2506.602	CONNECT INTO EXISTING STORM SEWER	EACH	11	0	0	0	0	0	0	0	0	0	0
70	13	2506.602	CONNECT INTO EXISTING MH OR CB	EACH	11	0	0	0	0	0	0	0	0	0	0
71	11	2506.602	CONCRETE ENCASED CASTING COLLAR	EACH	42	0	0	2	0	1	0	1	0	0	0
72		2511.507	RIPRAP CLASS IV	CU YD	366	0	0	0	0	0	0	0	0	0	0
73	14	2521.518	4" CONCRETE WALK	SQ FT	71339	21	0	118	0	100	20	773	0	0	4030
74	14	2521.518	6" CONCRETE WALK	SQ FT	15264	90	0	0	0	105	94	702	0	0	810
75		2521.518	INTEGRAL SIDEWALK	SQ FT	5431	0	0	0	0	0	0	0	0	0	0
76	15	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	28663	862	0	142	214	217	375	1623	69	13	823
77	15	2531.503	CONCRETE CURB & GUTTER DESIGN B624 (MOD)	LIN FT	54	0	0	0	0	0	0	0	0	0	0
78	15	2531.503	CONCRETE CURB DESIGN V8 (MOD)	LIN FT	77	0	0	0	0	0	0	0	0	0	0
79	17	2531.504	7" CONCRETE DRIVEWAY PAVEMENT	SQ YD	3003	227	0	37	21	19	0	111	0	0	99
80	17	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	1312	0	0	0	0	0	0	0	0	0	81
81	15	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	36	0	0	0	0	0	0	0	0	0	0
82		2531.618	TRUNCATED DOMES	SQ FT	1826	16	0	8	0	20	16	104	0	0	52
83		2540.602	CONSTRUCT SURVEY MONUMENT	EACH	12	1	0	0	0	1	0	0	1	0	0
84		2563.601	TRAFFIC CONTROL	LUMP SUM	1	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
85	19	2564.602	INSTALL SIGN TYPE SPECIAL	EACH	4	0	0	0	0	0	0	0	0	0	0
86		2573.602	EROSION CONTROL MOBILIZATION	LUMP SUM	1	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
87		2574.507	BOULEVARD TOPSOIL BORROW	CU YD	65	0	0	0	0	0	0	0	0	0	0
88	20	2575.602	SITE RESTORATION	EACH	64	1	1	1	1	1	1	1	1	1	1
89		2582.503	24" SOLID LINE PAINT	LIN FT	55	0	0	0	0	0	0	0	0	0	0
90		2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	3318	0	0	0	0	516	0	0	0	0	0
91		2582.518	CROSSWALK PAINT	SQ FT	768	0	0	0	0	0	0	0	0	0	0

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:  JEFF S. GOETZMAN
TYPE NAME

DATE: 03/05/2024

LIC. NO: 26422



CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST. STE. 240
DULUTH, MN 55802

CITY OF DULUTH 2024 STREET PRESERVATION
CITY PROJECT NO.: 2090
STATE AID PROJECT NO.: N/A

DRAWN BY: WRT/CMW/CRJ
STATEMENT OF ESTIMATED QUANTITIES - 2.2
SHEET NO. 5 OF 296

STATEMENT OF ESTIMATED QUANTITIES						MILL & OVERLAY									
ITEM NO.	SEQ NOTES	SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	E 9TH ST (HAS BOTH SECTIONS)	E 5TH ST	E 6TH ST	E 7TH ST	N 17TH AVE E	N 16TH AVE E	CHESTER PARKWAY	BELMONT RD	PARKLAND AVE	EDEN LN
1		2021.501	MOBILIZATION	LUMP SUM	1	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
2		2101.501	CLEARING & GRUBBING	ACRE	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3		2104.502	REMOVE CATCH BASIN	EACH	14	0	0	1	0	0	0	0	0	2	0
4		2104.502	REMOVE STRUCTURE	EACH	9	0	0	0	0	0	0	0	0	0	0
5		2104.502	REMOVE CASTING	EACH	81	0	0	0	0	3	0	0	1	3	0
6		2104.502	REMOVE PIPE APRON	EACH	12	0	0	0	0	0	0	0	0	0	0
7		2104.502	REMOVE VALVE BOX	EACH	5	0	0	0	0	0	0	0	0	1	0
8	1	2104.502	SALVAGE SIGN	EACH	1	0	0	0	0	0	0	0	0	0	0
9	2	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	13596	0	464	1509	81	113	125	779	0	7	0
10		2104.503	SAWING BITUMINOUS PAVEMENT	LIN FT	3816	120	70	113	99	47	47	70	27	32	76
11	3	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	LIN FT	22182	361	12	52	1744	845	632	34	211	586	358
12		2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	1809	0	0	0	0	0	0	0	0	0	0
13	3	2104.503	REMOVE CURB & GUTTER	LIN FT	24485	352	0	570	1730	359	468	723	145	231	347
14	3, 4	2104.504	REMOVE PAVEMENT	SQ YD	36	0	0	0	0	0	0	0	0	0	0
15	3	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	2899	11	8	33	42	94	190	102	0	29	16
16	3	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	4869	1	2	9	2	5	2000	7	0	30	2
17		2104.507	REMOVE CONCRETE STEPS	CU YD	19	0	0	7	6	0	0	0	0	0	0
18	2, 3	2104.518	REMOVE CONCRETE WALK	SQ FT	83854	2382	2079	4371	7820	2658	0	4027	982	1923	1313
19	3, 6	2104.618	REMOVE STONE PAVERS	SQ FT	22	0	0	0	0	0	0	0	7	0	0
20		2104.618	SALVAGE STONE PAVERS	SQ FT	28	0	0	0	0	0	0	0	0	0	0
21		2106.507	EXCAVATION - COMMON	CU YD	1339	0	0	0	0	0	0	0	0	1	0
22		2108.504	GEOTEXTILE FABRIC TYPE 7	SQ YD	374	0	0	0	0	0	0	0	0	0	0
23		2118.507	AGGREGATE SURFACING (CV) CLASS 1	CU YD	536	0	0	0	0	0	0	0	0	0	0
24		2118.507	AGGREGATE SURFACING (CV) CLASS 5	CU YD	765	0	0	0	0	0	0	0	0	1	2
25		2123.510	MOTOR GRADER	HOUR	16	0	0	0	0	0	0	0	0	0	0
26		2123.510	TAMPING ROLLER	HOUR	16	0	0	0	0	0	0	0	0	0	0
27	5	2131.506	CALCIUM CHLORIDE SOLUTION	GALLON	7823	0	0	0	0	0	0	0	0	0	0
28	6,7	2215.504	FULL DEPTH RECLAMATION	SQ YD	31273	0	0	0	0	0	0	0	0	0	0
29	8	2215.507	HAUL FULL DEPTH RECLAMATION (LV)	CU YD	2659	0	0	0	0	0	0	0	0	0	0
30		2232.504	MILL BITUMINOUS SURFACE (1.0")	SQ YD	43093	3526	2852	0	4229	3385	0	0	0	0	0
31		2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	69866	0	0	0	0	0	0	0	851	2289	765
32		2232.604	MILL PAVEMENT	SQ YD	48878	0	0	5612	0	0	3221	1957	0	0	0
33	9	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	10427	176	143	281	211	169	161	98	43	115	38
34	9	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)	TON	19871	213	172	677	256	205	387	239	102	282	93
35	9	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	TON	6752	0	0	0	0	0	0	0	0	0	0
36		2411.603	CONCRETE STEPS	CU YD	19	0	0	7	6	0	0	0	0	0	0
37		2501.502	12" CS PIPE APRON	EACH	56	0	0	0	0	0	0	0	0	0	0
38		2501.502	12" RC PIPE APRON	EACH	9	0	0	0	0	0	0	0	0	0	0
39		2501.502	18" RC PIPE APRON	EACH	1	0	0	0	0	0	0	0	0	0	0
40		2501.502	21" RC PIPE APRON	EACH	1	0	0	0	0	0	0	0	0	0	0
41		2501.502	22" SPAN RC PIPE-ARCH APRON	EACH	2	0	0	0	0	0	0	0	0	0	0
42	22	2501.602	MIDSLOPE PIPE ANCHOR	EACH	2	0	0	0	0	0	0	0	0	0	0
43		2501.603	CLEAN DRAINAGE DITCH	LIN FT	455	0	0	0	0	0	0	0	0	0	0
44	21	2502.603	SUMP CONNECTION	EACH	23	0	0	0	0	0	0	0	0	2	0
45		2502.503	6" PERF PE PIPE DRAIN	LIN FT	1255	0	0	0	0	0	0	0	0	75	0

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE: 03/05/2024

SIGNATURE: 

JEFF S. GOETZMAN
TYPE NAME

LIC. NO: 26422



CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST. STE. 240
DULUTH, MN 55802

CITY OF DULUTH 2024 STREET PRESERVATION

CITY PROJECT NO.: 2090

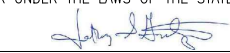
STATE AID PROJECT NO.: N/A

DRAWN BY: WRT/CMW/CRJ

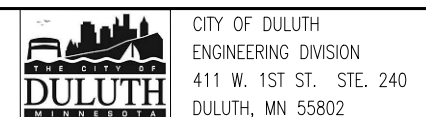
STATEMENT OF ESTIMATED QUANTITIES - 3.1

SHEET NO. 6 OF 296

STATEMENT OF ESTIMATED QUANTITIES						MILL & OVERLAY									
ITEM NO.	SEQ NOTES	SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	E 9TH ST (HAS BOTH SECTIONS)	E 5TH ST	E 6TH ST	E 7TH ST	N 17TH AVE E	N 16TH AVE E	CHESTER PARKWAY	BELMONT RD	PARKLAND AVE	EDEN LN
46		2503.503	12" RC PIPE SEWER DES. 3006 CL V	LIN FT	729	0	0	0	0	0	0	0	0	0	0
47		2503.503	15" RC PIPE SEWER DES. 3006 CL V	LIN FT	648	0	0	0	0	0	0	0	0	0	0
48		2503.503	18" RC PIPE SEWER DES. 3006 CL V	LIN FT	510	0	0	0	0	0	0	0	0	0	0
49		2503.503	21" RC PIPE SEWER DES. 3006 CL V	LIN FT	706	0	0	0	0	0	0	0	0	0	0
50		2503.503	22" SPAN RC PIPE-ARCH SEWER CLASS IVA	LIN FT	41	0	0	0	0	0	0	0	0	0	0
51		2503.503	30" RC PIPE SEWER DES. 3006 CL V	LIN FT	19	0	0	0	0	0	0	0	0	0	0
52		2503.602	CONNECT INTO EXISTING SANITARY SEWER	EACH	3	0	0	0	0	0	0	0	0	0	0
53		2503.603	PLUG & ABANDON PIPE SEWER	EACH	5	0	0	0	0	0	0	0	0	0	0
54		2503.603	8" PVC SEWER PIPE	LIN FT	24	0	0	0	0	0	0	0	0	0	0
55		2503.603	12" HDPE PIPE SEWER	LIN FT	703	0	0	0	0	0	0	0	0	0	0
56		2503.603	16" HDPE PIPE SEWER	LIN FT	144	0	0	0	0	0	0	0	0	0	0
57	10	2504.602	ADJUST VALVE BOX	EACH	13	0	0	0	0	0	0	0	0	0	2
58	10	2504.602	ADJUST VALVE BOX (SPECIAL)	EACH	45	1	3	0	5	0	0	2	0	3	0
59		2504.602	ADJUST CURB BOX	EACH	93	0	0	0	1	0	8	2	0	2	0
60		2504.602	CONCRETE ENCASED VALVE BOX COLLAR	EACH	51	0	0	0	0	0	0	0	1	0	0
61	11	2506.502	CASTING ASSEMBLY	EACH	138	0	4	9	0	3	0	0	1	3	0
62		2506.502	CONST 48" DRAINAGE STRUCTURE DESIGN F	LIN FT	64.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63		2506.502	CONST DRAINAGE STRUCTURE DESIGN 60-4020	LIN FT	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64		2506.503	CONST DRAINAGE STRUCTURE DESIGN SD-48	LIN FT	106.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	23	2506.503	CONST DRAINAGE STRUCTURE DESIGN SPECIAL	EACH	9	0	0	1	0	0	0	0	0	2	0
66	11	2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LIN FT	59	0	0	18	0	0	0	0	0	0	0
67	24	2506.602	ADJUST FRAME RING & CASTING	EACH	129	4	4	2	9	0	0	1	1	9	4
68	24	2506.602	ADJUST FRAME RING & CASTING (SPECIAL)	EACH	85	2	3	0	6	3	0	2	0	0	0
69	12	2506.602	CONNECT INTO EXISTING STORM SEWER	EACH	11	0	0	0	0	0	0	0	0	1	0
70	13	2506.602	CONNECT INTO EXISTING MH OR CB	EACH	11	0	0	0	0	0	0	0	0	1	0
71	11	2506.602	CONCRETE ENCASED CASTING COLLAR	EACH	42	0	0	0	0	0	0	0	2	0	0
72		2511.507	RIPRAP CLASS IV	CU YD	366	0	0	0	0	0	0	0	0	0	0
73	14	2521.518	4" CONCRETE WALK	SQ FT	71339	2026	952	2199	7260	1191	1453	3856	824	544	1056
74	14	2521.518	6" CONCRETE WALK	SQ FT	15264	356	843	544	708	0	0	171	158	358	257
75		2521.518	INTEGRAL SIDEWALK	SQ FT	5431	0	278	1695	0	1467	547	0	0	1021	0
76	15	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	28663	315	381	855	1730	359	468	723	145	231	347
77	15	2531.503	CONCRETE CURB & GUTTER DESIGN B624 (MOD)	LIN FT	54	0	0	0	0	0	0	0	0	0	0
78	15	2531.503	CONCRETE CURB DESIGN V8 (MOD)	LIN FT	77	0	0	0	0	0	0	0	0	57	0
79	17	2531.504	7" CONCRETE DRIVEWAY PAVEMENT	SQ YD	3003	11	8	32	42	34	62	75	0	23	16
80	17	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	1312	0	0	0	0	60	152	27	0	20	0
81	15	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	36	0	0	0	0	0	0	0	0	0	0
82		2531.618	TRUNCATED DOMES	SQ FT	1826	48	80	96	80	0	0	32	16	59	43
83		2540.602	CONSTRUCT SURVEY MONUMENT	EACH	12	0	0	0	0	0	0	0	0	0	0
84		2563.601	TRAFFIC CONTROL	LUMP SUM	1	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
85	19	2564.602	INSTALL SIGN TYPE SPECIAL	EACH	4	0	0	0	0	0	0	0	0	0	0
86		2573.602	EROSION CONTROL MOBILIZATION	LUMP SUM	1	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
87		2574.507	BOULEVARD TOPSOIL BORROW	CU YD	65	0	0	0	0	0	0	0	0	0	0
88	20	2575.602	SITE RESTORATION	EACH	64	1	1	1	1	1	1	1	1	1	1
89		2582.503	24" SOLID LINE PAINT	LIN FT	55	0	0	0	0	0	0	0	0	0	0
90		2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	3318	0	0	0	0	0	0	0	0	0	0
91		2582.518	CROSSWALK PAINT	SQ FT	768	0	0	0	0	0	0	0	0	0	0

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 SIGNATURE:  JEFF S. GOETZMAN
 TYPE NAME


DATE: 03/05/2024
 LIC. NO: 26422



CITY OF DULUTH 2024 STREET PRESERVATION
 CITY PROJECT NO.: 2090 STATE AID PROJECT NO.: N/A
 DRAWN BY: WRT/CMW/CRJ
 STATEMENT OF ESTIMATED QUANTITIES - 3.2
 SHEET NO. 7 OF 296

STATEMENT OF ESTIMATED QUANTITIES						MILL & OVERLAY									
ITEM NO.	SEQ NOTES	SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	N 14TH AVE E	N 11TH AVE E	N 8TH AVE E	E 10TH ST	COMO AVE	E GILEAD ST	E LOCUST ST	W MYRTLE ST	N LAKE AVE	W 5TH ST (Skyline)
1		2021.501	MOBILIZATION	LUMP SUM	1	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
2		2101.501	CLEARING & GRUBBING	ACRE	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3		2104.502	REMOVE CATCH BASIN	EACH	14	0	0	0	0	0	0	0	0	0	0
4		2104.502	REMOVE STRUCTURE	EACH	9	0	0	0	0	0	0	0	0	0	0
5		2104.502	REMOVE CASTING	EACH	81	1	1	0	0	0	0	0	0	0	12
6		2104.502	REMOVE PIPE APRON	EACH	12	0	0	0	0	0	0	0	0	0	0
7		2104.502	REMOVE VALVE BOX	EACH	5	0	0	0	0	0	0	0	0	0	0
8	1	2104.502	SALVAGE SIGN	EACH	1	0	0	0	0	0	0	0	0	0	0
9	2	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	13596	1070	0	36	0	0	46	48	0	20	0
10		2104.503	SAWING BITUMINOUS PAVEMENT	LIN FT	3816	0	175	61	53	60	84	102	273	227	40
11	3	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	LIN FT	22182	49	308	736	126	343	398	608	224	619	0
12		2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	1809	0	0	27	0	160	190	353	0	0	0
13	3	2104.503	REMOVE CURB & GUTTER	LIN FT	24485	862	296	666	52	0	0	0	24	573	0
14	3, 4	2104.504	REMOVE PAVEMENT	SQ YD	36	36	0	0	0	0	0	0	0	0	0
15	3	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	2899	104	14	40	0	0	45	21	0	92	0
16	3	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	4869	97	2	62	99	230	455	421	279	25	0
17		2104.507	REMOVE CONCRETE STEPS	CU YD	19	0	0	0	0	0	0	0	0	0	0
18	2, 3	2104.518	REMOVE CONCRETE WALK	SQ FT	83854	1613	1659	1193	201	0	0	0	555	2341	0
19	3, 6	2104.618	REMOVE STONE PAVERS	SQ FT	22	0	0	0	0	0	0	0	0	0	0
20		2104.618	SALVAGE STONE PAVERS	SQ FT	28	0	0	0	0	0	18	0	0	0	0
21		2106.507	EXCAVATION - COMMON	CU YD	1339	0	0	0	4	0	36	18	23	1	8
22		2108.504	GEOTEXTILE FABRIC TYPE 7	SQ YD	374	0	0	0	0	0	0	0	0	0	0
23		2118.507	AGGREGATE SURFACING (CV) CLASS 1	CU YD	536	0	0	1	4	39	53	52	71	0	20
24		2118.507	AGGREGATE SURFACING (CV) CLASS 5	CU YD	765	0	0	0	0	2	36	18	23	1	8
25		2123.510	MOTOR GRADER	HOUR	16	0	0	0	0	0	0	0	0	0	0
26		2123.510	TAMPING ROLLER	HOUR	16	0	0	0	0	0	0	0	0	0	0
27	5	2131.506	CALCIUM CHLORIDE SOLUTION	GALLON	7823	0	0	0	0	0	0	0	0	0	0
28	6,7	2215.504	FULL DEPTH RECLAMATION	SQ YD	31273	0	0	0	0	0	0	0	0	0	0
29	8	2215.507	HAUL FULL DEPTH RECLAMATION (LV)	CU YD	2659	0	0	0	0	0	0	0	0	0	0
30		2232.504	MILL BITUMINOUS SURFACE (1.0")	SQ YD	43093	0	0	0	0	0	0	0	0	0	2530
31		2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	69866	0	3814	1623	1228	4560	7096	7010	6827	2416	8593
32		2232.604	MILL PAVEMENT	SQ YD	48878	1511	0	0	0	0	0	0	0	0	0
33	9	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	10427	76	191	81	64	239	378	351	355	122	560
34	9	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)	TON	19871	181	459	195	180	629	1015	993	926	292	1286
35	9	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	TON	6752	0	0	0	0	0	0	0	0	0	0
36		2411.603	CONCRETE STEPS	CU YD	19	0	0	0	0	0	0	0	0	0	0
37		2501.502	12" CS PIPE APRON	EACH	56	0	0	0	0	12	14	30	0	0	0
38		2501.502	12" RC PIPE APRON	EACH	9	0	0	0	0	0	0	0	0	0	0
39		2501.502	18" RC PIPE APRON	EACH	1	0	0	0	0	0	0	0	0	0	0
40		2501.502	21" RC PIPE APRON	EACH	1	0	0	0	0	0	0	0	0	0	0
41		2501.502	22" SPAN RC PIPE-ARCH APRON	EACH	2	0	0	0	0	0	0	0	0	0	0
42	22	2501.602	MIDSLOPE PIPE ANCHOR	EACH	2	0	0	0	0	0	0	0	0	0	0
43		2501.603	CLEAN DRAINAGE DITCH	LIN FT	455	0	0	0	0	100	0	0	0	0	0
44	21	2502.603	SUMP CONNECTION	EACH	23	5	0	0	0	0	0	0	0	0	0
45		2502.503	6" PERF PE PIPE DRAIN	LIN FT	1255	260	0	0	0	0	0	0	0	0	0

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: 

JEFF S. GOETZMAN
TYPE NAME

DATE: 03/05/2024

LIC. NO: 26422



CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST. STE. 240
DULUTH, MN 55802

CITY OF DULUTH 2024 STREET PRESERVATION

CITY PROJECT NO.: 2090

STATE AID PROJECT NO.: N/A


DRAWN BY: WRT/CMW/CRJ

STATEMENT OF ESTIMATED QUANTITIES - 4.1

SHEET NO. 8 OF 296

STATEMENT OF ESTIMATED QUANTITIES						MILL & OVERLAY									
ITEM NO.	SEQ NOTES	SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	N 14TH AVE E	N 11TH AVE E	N 8TH AVE E	E 10TH ST	COMO AVE	E GILEAD ST	E LOCUST ST	W MYRTLE ST	N LAKE AVE	W 5TH ST (Skyline)
46		2503.503	12" RC PIPE SEWER DES. 3006 CL V	LIN FT	729	0	0	0	0	0	0	0	0	0	0
47		2503.503	15" RC PIPE SEWER DES. 3006 CL V	LIN FT	648	0	0	0	0	0	0	0	0	0	0
48		2503.503	18" RC PIPE SEWER DES. 3006 CL V	LIN FT	510	0	0	0	0	0	0	0	0	0	0
49		2503.503	21" RC PIPE SEWER DES. 3006 CL V	LIN FT	706	0	0	0	0	0	0	0	0	0	0
50		2503.503	22" SPAN RC PIPE-ARCH SEWER CLASS IVA	LIN FT	41	0	0	0	0	0	0	0	0	0	0
51		2503.503	30" RC PIPE SEWER DES. 3006 CL V	LIN FT	19	0	0	0	0	0	0	0	0	0	0
52		2503.602	CONNECT INTO EXISTING SANITARY SEWER	EACH	3	0	0	0	0	0	0	0	0	0	0
53		2503.603	PLUG & ABANDON PIPE SEWER	EACH	5	0	0	0	0	0	0	0	0	0	0
54		2503.603	8" PVC SEWER PIPE	LIN FT	24	0	0	0	0	0	0	0	0	0	0
55		2503.603	12" HDPE PIPE SEWER	LIN FT	703	0	0	0	0	160	190	353	0	0	0
56		2503.603	16" HDPE PIPE SEWER	LIN FT	144	0	0	0	0	0	0	0	0	0	0
57	10	2504.602	ADJUST VALVE BOX	EACH	13	1	0	0	0	0	0	0	0	1	0
58	10	2504.602	ADJUST VALVE BOX (SPECIAL)	EACH	45	0	0	0	0	0	0	0	0	0	0
59		2504.602	ADJUST CURB BOX	EACH	93	3	0	0	3	0	0	0	0	0	5
60		2504.602	CONCRETE ENCASED VALVE BOX COLLAR	EACH	51	0	0	0	0	0	0	0	4	0	9
61	11	2506.502	CASTING ASSEMBLY	EACH	138	1	1	0	0	0	0	0	0	2	12
62		2506.502	CONST 48" DRAINAGE STRUCTURE DESIGN F	LIN FT	64.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63		2506.502	CONST DRAINAGE STRUCTURE DESIGN 60-4020	LIN FT	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64		2506.503	CONST DRAINAGE STRUCTURE DESIGN SD-48	LIN FT	106.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	23	2506.503	CONST DRAINAGE STRUCTURE DESIGN SPECIAL	EACH	9	0	0	0	0	0	0	0	0	0	0
66	11	2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LIN FT	59	0	12	0	0	0	0	0	0	0	0
67	24	2506.602	ADJUST FRAME RING & CASTING	EACH	129	3	9	0	2	0	0	0	0	10	1
68	24	2506.602	ADJUST FRAME RING & CASTING (SPECIAL)	EACH	85	0	0	0	1	0	0	0	0	0	9
69	12	2506.602	CONNECT INTO EXISTING STORM SEWER	EACH	11	0	0	0	0	0	0	0	0	0	0
70	13	2506.602	CONNECT INTO EXISTING MH OR CB	EACH	11	1	0	0	0	0	0	0	0	0	0
71	11	2506.602	CONCRETE ENCASED CASTING COLLAR	EACH	42	0	0	0	0	0	0	1	0	0	0
72		2511.507	RIPRAP CLASS IV	CU YD	366	0	0	0	0	0	0	0	0	0	0
73	14	2521.518	4" CONCRETE WALK	SQ FT	71339	1468	1166	1193	0	0	0	0	179	1473	3294
74	14	2521.518	6" CONCRETE WALK	SQ FT	15264	145	493	0	201	0	0	0	235	691	618
75		2521.518	INTEGRAL SIDEWALK	SQ FT	5431	0	0	0	0	0	0	0	117	0	306
76	15	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	28663	884	296	666	51	0	0	0	24	573	816
77	15	2531.503	CONCRETE CURB & GUTTER DESIGN B624 (MOD)	LIN FT	54	0	0	0	0	0	0	0	0	0	0
78	15	2531.503	CONCRETE CURB DESIGN V8 (MOD)	LIN FT	77	0	0	0	0	0	0	0	0	0	0
79	17	2531.504	7" CONCRETE DRIVEWAY PAVEMENT	SQ YD	3003	88	14	47	0	0	45	21	0	52	78
80	17	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	1312	109	0	55	0	0	0	0	0	63	0
81	15	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	36	0	0	0	0	0	0	0	0	0	0
82		2531.618	TRUNCATED DOMES	SQ FT	1826	20	48	0	16	0	0	0	24	48	88
83		2540.602	CONSTRUCT SURVEY MONUMENT	EACH	12	1	0	0	0	1	0	1	0	0	0
84		2563.601	TRAFFIC CONTROL	LUMP SUM	1	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
85	19	2564.602	INSTALL SIGN TYPE SPECIAL	EACH	4	0	0	0	0	0	0	0	0	0	0
86		2573.602	EROSION CONTROL MOBILIZATION	LUMP SUM	1	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
87		2574.507	BOULEVARD TOPSOIL BORROW	CU YD	65	0	0	63	0	0	0	0	0	0	0
88	20	2575.602	SITE RESTORATION	EACH	64	1	1	1	1	1	1	1	1	1	1
89		2582.503	24" SOLID LINE PAINT	LIN FT	55	0	0	55	0	0	0	0	0	0	0
90		2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	3318	0	0	0	0	0	0	0	1953	41	0
91		2582.518	CROSSWALK PAINT	SQ FT	768	0	0	198	0	0	0	0	210	0	0

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SIGNATURE:  JEFF S. GOETZMAN
TYPE NAME

DATE: 03/05/2024
LIC. NO: 26422




CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST. STE. 240
DULUTH, MN 55802

CITY OF DULUTH 2024 STREET PRESERVATION
CITY PROJECT NO.: 2090
STATE AID PROJECT NO.: N/A

DRAWN BY: WRT/CMW/CRJ
STATEMENT OF ESTIMATED QUANTITIES - 4.2
SHEET NO. 9 OF 296

STATEMENT OF ESTIMATED QUANTITIES						MILL & OVERLAY									
ITEM NO.	SEQ NOTES	SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	W 6TH ST	N 22ND AVE W	W 11TH ST	W 12TH ST	W 13TH ST	N 39TH AVE W	W 4TH ST	W 5TH ST (40th Ave)	N 57TH AVE W	N 80TH AVE W
1		2021.501	MOBILIZATION	LUMP SUM	1	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
2		2101.501	CLEARING & GRUBBING	ACRE	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3		2104.502	REMOVE CATCH BASIN	EACH	14	0	0	0	0	0	0	1	0	0	0
4		2104.502	REMOVE STRUCTURE	EACH	9	0	0	0	0	0	0	0	0	0	0
5		2104.502	REMOVE CASTING	EACH	81	6	2	0	3	3	1	4	0	0	0
6		2104.502	REMOVE PIPE APRON	EACH	12	0	0	0	0	0	0	0	0	0	0
7		2104.502	REMOVE VALVE BOX	EACH	5	0	0	0	0	0	0	0	0	0	0
8	1	2104.502	SALVAGE SIGN	EACH	1	0	0	0	0	0	0	0	0	0	0
9	2	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	13596	29	14	133	231	0	1030	3207	19	0	495
10		2104.503	SAWING BITUMINOUS PAVEMENT	LIN FT	3816	162	26	0	0	86	0	0	69	262	0
11	3	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	LIN FT	22182	498	0	16	0	0	71	28	1100	488	0
12		2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	1809	0	0	0	0	0	0	0	0	0	0
13	3	2104.503	REMOVE CURB & GUTTER	LIN FT	24485	460	0	81	167	0	797	2740	1071	488	362
14	3, 4	2104.504	REMOVE PAVEMENT	SQ YD	36	0	0	0	0	0	0	0	0	0	0
15	3	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	2899	68	0	11	0	0	191	152	163	64	61
16	3	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	4869	6	0	13	0	0	18	9	3	6	0
17		2104.507	REMOVE CONCRETE STEPS	CU YD	19	0	0	0	5	0	0	0	0	0	0
18	2, 3	2104.518	REMOVE CONCRETE WALK	SQ FT	83854	1664	0	1072	410	1357	4565	12943	2645	1622	836
19	3, 6	2104.618	REMOVE STONE PAVERS	SQ FT	22	0	0	0	0	0	0	0	0	0	2
20		2104.618	SALVAGE STONE PAVERS	SQ FT	28	0	0	0	0	0	0	0	0	0	0
21		2106.507	EXCAVATION - COMMON	CU YD	1339	2	0	2	0	0	1	1	5	0	2
22		2108.504	GEOTEXTILE FABRIC TYPE 7	SQ YD	374	0	0	0	0	0	0	0	0	0	0
23		2118.507	AGGREGATE SURFACING (CV) CLASS 1	CU YD	536	0	7	1	0	14	0	0	0	0	0
24		2118.507	AGGREGATE SURFACING (CV) CLASS 5	CU YD	765	2	0	0	0	0	1	1	5	0	2
25		2123.510	MOTOR GRADER	HOUR	16	0	0	0	0	0	0	0	0	0	0
26		2123.510	TAMPING ROLLER	HOUR	16	0	0	0	0	0	0	0	0	0	0
27	5	2131.506	CALCIUM CHLORIDE SOLUTION	GALLON	7823	0	0	0	0	0	0	0	0	0	0
28	6,7	2215.504	FULL DEPTH RECLAMATION	SQ YD	31273	0	0	0	0	0	0	0	0	0	0
29	8	2215.507	HAUL FULL DEPTH RECLAMATION (LV)	CU YD	2659	0	0	0	0	0	0	0	0	0	0
30		2232.504	MILL BITUMINOUS SURFACE (1.0")	SQ YD	43093	1086	0	0	0	0	0	0	0	0	0
31		2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	69866	3753	1041	0	0	2773	0	0	0	0	0
32		2232.604	MILL PAVEMENT	SQ YD	48878	0	0	1559	1976	0	3982	9469	4775	4439	3982
33	9	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	10427	242	52	78	99	139	200	474	239	222	199
34	9	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)	TON	19871	551	125	187	237	333	484	1142	575	534	478
35	9	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	TON	6752	0	0	0	0	0	0	0	0	0	0
36		2411.603	CONCRETE STEPS	CU YD	19	0	0	0	5	0	0	0	0	0	0
37		2501.502	12" CS PIPE APRON	EACH	56	0	0	0	0	0	0	0	0	0	0
38		2501.502	12" RC PIPE APRON	EACH	9	0	0	0	0	0	0	0	0	0	0
39		2501.502	18" RC PIPE APRON	EACH	1	0	0	0	0	0	0	0	0	0	0
40		2501.502	21" RC PIPE APRON	EACH	1	0	0	0	0	0	0	0	0	0	0
41		2501.502	22" SPAN RC PIPE-ARCH APRON	EACH	2	0	0	0	0	0	0	0	0	0	0
42	22	2501.602	MIDSLOPE PIPE ANCHOR	EACH	2	0	0	0	0	0	0	0	0	0	0
43		2501.603	CLEAN DRAINAGE DITCH	LIN FT	455	0	0	0	0	0	0	0	0	0	0
44	21	2502.603	SUMP CONNECTION	EACH	23	0	0	0	0	0	0	0	0	0	0
45		2502.503	6" PERF PE PIPE DRAIN	LIN FT	1255	0	0	0	0	0	0	0	0	0	0

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: 

JEFF S. GOETZMAN
TYPE NAME

DATE: 03/05/2024

LIC. NO: 26422



CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST. STE. 240
DULUTH, MN 55802

CITY OF DULUTH 2024 STREET PRESERVATION

CITY PROJECT NO.: 2090

STATE AID PROJECT NO.: N/A


DRAWN BY: WRT/CMW/CRJ

STATEMENT OF ESTIMATED QUANTITIES - 5.1

SHEET NO. 10 OF 296

STATEMENT OF ESTIMATED QUANTITIES						MILL & OVERLAY									
ITEM NO.	SEQ NOTES	SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	W 6TH ST	N 22ND AVE W	W 11TH ST	W 12TH ST	W 13TH ST	N 39TH AVE W	W 4TH ST	W 5TH ST (40th Ave)	N 57TH AVE W	N 80TH AVE W
46		2503.503	12" RC PIPE SEWER DES. 3006 CL V	LIN FT	729	0	0	0	0	0	0	0	0	0	0
47		2503.503	15" RC PIPE SEWER DES. 3006 CL V	LIN FT	648	0	0	0	0	0	0	0	0	0	0
48		2503.503	18" RC PIPE SEWER DES. 3006 CL V	LIN FT	510	0	0	0	0	0	0	0	0	0	0
49		2503.503	21" RC PIPE SEWER DES. 3006 CL V	LIN FT	706	0	0	0	0	0	0	0	0	0	0
50		2503.503	22" SPAN RC PIPE-ARCH SEWER CLASS IVA	LIN FT	41	0	0	0	0	0	0	0	0	0	0
51		2503.503	30" RC PIPE SEWER DES. 3006 CL V	LIN FT	19	0	0	0	0	0	0	0	0	0	0
52		2503.602	CONNECT INTO EXISTING SANITARY SEWER	EACH	3	0	0	0	0	0	0	0	0	0	0
53		2503.603	PLUG & ABANDON PIPE SEWER	EACH	5	0	0	0	0	0	0	0	0	0	0
54		2503.603	8" PVC SEWER PIPE	LIN FT	24	0	0	0	0	0	0	0	0	0	0
55		2503.603	12" HDPE PIPE SEWER	LIN FT	703	0	0	0	0	0	0	0	0	0	0
56		2503.603	16" HDPE PIPE SEWER	LIN FT	144	0	0	0	0	0	0	0	0	0	0
57	10	2504.602	ADJUST VALVE BOX	EACH	13	0	0	0	0	0	0	0	1	0	0
58	10	2504.602	ADJUST VALVE BOX (SPECIAL)	EACH	45	0	0	0	0	0	0	0	0	0	2
59		2504.602	ADJUST CURB BOX	EACH	93	5	0	4	5	9	0	0	0	2	2
60		2504.602	CONCRETE ENCASED VALVE BOX COLLAR	EACH	51	3	0	0	3	0	0	0	1	4	0
61	11	2506.502	CASTING ASSEMBLY	EACH	138	6	2	0	3	3	1	5	0	0	0
62		2506.502	CONST 48" DRAINAGE STRUCTURE DESIGN F	LIN FT	64.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63		2506.502	CONST DRAINAGE STRUCTURE DESIGN 60-4020	LIN FT	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64		2506.503	CONST DRAINAGE STRUCTURE DESIGN SD-48	LIN FT	106.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	23	2506.503	CONST DRAINAGE STRUCTURE DESIGN SPECIAL	EACH	9	0	0	0	0	0	0	1	0	0	0
66	11	2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LIN FT	59	0	0	0	0	0	0	0	0	0	0
67	24	2506.602	ADJUST FRAME RING & CASTING	EACH	129	2	0	1	0	0	4	5	16	1	0
68	24	2506.602	ADJUST FRAME RING & CASTING (SPECIAL)	EACH	85	0	0	0	0	0	1	0	0	1	6
69	12	2506.602	CONNECT INTO EXISTING STORM SEWER	EACH	11	0	0	0	0	0	0	0	0	0	0
70	13	2506.602	CONNECT INTO EXISTING MH OR CB	EACH	11	0	0	0	0	0	0	0	0	0	0
71	11	2506.602	CONCRETE ENCASED CASTING COLLAR	EACH	42	0	0	0	1	0	0	2	0	0	0
72		2511.507	RIPRAP CLASS IV	CU YD	366	0	0	0	0	0	0	0	0	0	0
73	14	2521.518	4" CONCRETE WALK	SQ FT	71339	1194	0	1072	279	1076	4352	11526	1849	1519	289
74	14	2521.518	6" CONCRETE WALK	SQ FT	15264	470	0	0	131	281	213	1417	824	103	547
75		2521.518	INTEGRAL SIDEWALK	SQ FT	5431	0	0	0	0	0	0	0	0	0	0
76	15	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	28663	460	0	81	167	0	797	2698	1043	488	362
77	15	2531.503	CONCRETE CURB & GUTTER DESIGN B624 (MOD)	LIN FT	54	0	0	0	0	0	0	0	0	0	0
78	15	2531.503	CONCRETE CURB DESIGN V8 (MOD)	LIN FT	77	0	0	0	0	0	0	0	0	0	0
79	17	2531.504	7" CONCRETE DRIVEWAY PAVEMENT	SQ YD	3003	68	0	22	0	0	55	152	163	0	0
80	17	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	1312	0	0	0	0	0	136	0	0	64	71
81	15	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	36	0	0	0	0	0	0	0	0	0	0
82		2531.618	TRUNCATED DOMES	SQ FT	1826	48	0	0	20	20	32	168	144	16	64
83		2540.602	CONSTRUCT SURVEY MONUMENT	EACH	12	0	1	0	0	1	0	0	0	0	0
84		2563.601	TRAFFIC CONTROL	LUMP SUM	1	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
85	19	2564.602	INSTALL SIGN TYPE SPECIAL	EACH	4	0	0	0	0	0	0	0	0	0	0
86		2573.602	EROSION CONTROL MOBILIZATION	LUMP SUM	1	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
87		2574.507	BOULEVARD TOPSOIL BORROW	CU YD	65	0	0	0	0	0	0	0	0	0	0
88	20	2575.602	SITE RESTORATION	EACH	64	1	1	1	1	1	1	1	1	1	1
89		2582.503	24" SOLID LINE PAINT	LIN FT	55	0	0	0	0	0	0	0	0	0	0
90		2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	3318	0	0	0	0	0	0	0	0	808	0
91		2582.518	CROSSWALK PAINT	SQ FT	768	0	0	0	0	0	0	0	0	360	0

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SIGNATURE:  JEFF S. GOETZMAN
TYPE NAME

DATE: 03/05/2024

LIC. NO: 26422




CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST. STE. 240
DULUTH, MN 55802

CITY OF DULUTH 2024 STREET PRESERVATION
CITY PROJECT NO.: 2090
STATE AID PROJECT NO.: N/A

DRAWN BY: WRT/CMW/CRJ
STATEMENT OF ESTIMATED QUANTITIES - 5.2
SHEET NO. 11 OF 296

STATEMENT OF ESTIMATED QUANTITIES						MILL & OVERLAY		FULL DEPTH RECLAMATION							
ITEM NO.	SEQ NOTES	SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	N 81ST AVE W	N 84TH AVE W	CRESCENT VIEW AVE	OLD HOWARD MILL RD	RUSTWOOD LN	E 7TH ST	MYRTLE PL	MAIN ST	MIDWAY AVE	MEADOW ST
1		2021.501	MOBILIZATION	LUMP SUM	1	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
2		2101.501	CLEARING & GRUBBING	ACRE	0.21	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
3		2104.502	REMOVE CATCH BASIN	EACH	14	0	0	0	0	0	2	0	3	0	0
4		2104.502	REMOVE STRUCTURE	EACH	9	0	0	0	0	0	1	0	1	0	3
5		2104.502	REMOVE CASTING	EACH	81	0	0	6	6	1	0	0	0	0	0
6		2104.502	REMOVE PIPE APRON	EACH	12	0	0	0	0	0	1	0	0	0	0
7		2104.502	REMOVE VALVE BOX	EACH	5	0	0	0	4	0	0	0	0	0	0
8	1	2104.502	SALVAGE SIGN	EACH	1	0	0	0	0	0	1	0	0	0	0
9	2	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	13596	0	0	10	35	35	0	0	0	0	0
10		2104.503	SAWING BITUMINOUS PAVEMENT	LIN FT	3816	84	129	0	24	57	0	0	0	0	0
11	3	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	LIN FT	22182	265	1246	168	81	52	486	117	346	88	126
12		2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	1809	0	0	0	0	63	92	0	85	0	255
13	3	2104.503	REMOVE CURB & GUTTER	LIN FT	24485	65	1246	585	899	351	442	0	75	0	16
14	3, 4	2104.504	REMOVE PAVEMENT	SQ YD	36	0	0	0	0	0	0	0	0	0	0
15	3	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	2899	0	114	58	32	78	0	0	0	0	10
16	3	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	4869	114	4	11	17	14	113	0	48	24	41
17		2104.507	REMOVE CONCRETE STEPS	CU YD	19	0	0	0	0	0	0	0	0	0	0
18	2, 3	2104.518	REMOVE CONCRETE WALK	SQ FT	83854	529	518	0	0	0	1506	0	2496	30	4665
19	3, 6	2104.618	REMOVE STONE PAVERS	SQ FT	22	0	0	0	0	0	0	0	0	0	0
20		2104.618	SALVAGE STONE PAVERS	SQ FT	28	0	0	10	0	0	0	0	0	0	0
21		2106.507	EXCAVATION - COMMON	CU YD	1339	0	0	0	0	0	253	7	41	3	0
22		2108.504	GEOTEXTILE FABRIC TYPE 7	SQ YD	374	0	0	0	0	0	374	0	0	0	0
23		2118.507	AGGREGATE SURFACING (CV) CLASS 1	CU YD	536	13	0	0	0	0	0	0	0	5	25
24		2118.507	AGGREGATE SURFACING (CV) CLASS 5	CU YD	765	0	0	0	0	0	4	0	0	0	0
25		2123.510	MOTOR GRADER	HOUR	16	0	0	0	0	0	0	0	0	0	0
26		2123.510	TAMPING ROLLER	HOUR	16	0	0	0	0	0	0	0	0	0	0
27	5	2131.506	CALCIUM CHLORIDE SOLUTION	GALLON	7823	0	0	666	1165	493	284	269	471	189	524
28	6,7	2215.504	FULL DEPTH RECLAMATION	SQ YD	31273	0	0	2661	4658	1970	1133	1073	1880	755	2096
29	8	2215.507	HAUL FULL DEPTH RECLAMATION (LV)	CU YD	2659	0	0	353	353	152	91	84	123	58	177
30		2232.504	MILL BITUMINOUS SURFACE (1.0")	SQ YD	43093	0	2337	0	0	0	0	0	0	0	0
31		2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	69866	2296	0	0	0	0	0	0	0	0	0
32		2232.604	MILL PAVEMENT	SQ YD	48878	0	0	0	0	0	0	0	0	0	0
33	9	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	10427	121	117	133	233	99	62	54	94	40	110
34	9	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)	TON	19871	317	282	0	0	0	0	0	0	0	0
35	9	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	TON	6752	0	0	565	980	419	262	225	395	171	466
36		2411.603	CONCRETE STEPS	CU YD	19	0	0	0	0	0	0	0	0	0	0
37		2501.502	12" CS PIPE APRON	EACH	56	0	0	0	0	0	0	0	0	0	0
38		2501.502	12" RC PIPE APRON	EACH	9	0	0	0	0	1	1	0	0	0	0
39		2501.502	18" RC PIPE APRON	EACH	1	0	0	0	0	0	0	0	0	0	0
40		2501.502	21" RC PIPE APRON	EACH	1	0	0	0	0	0	0	0	0	0	0
41		2501.502	22" SPAN RC PIPE-ARCH APRON	EACH	2	0	0	0	0	0	0	0	0	0	0
42	22	2501.602	MIDSLOPE PIPE ANCHOR	EACH	2	0	0	0	0	0	2	0	0	0	0
43		2501.603	CLEAN DRAINAGE DITCH	LIN FT	455	0	0	0	0	0	0	15	0	0	0
44	21	2502.603	SUMP CONNECTION	EACH	23	0	0	5	0	0	0	0	0	0	0
45		2502.503	6" PERF PE PIPE DRAIN	LIN FT	1255	0	0	255	0	0	0	0	0	0	0

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: 

JEFF S. GOETZMAN
TYPE NAME

DATE: 03/05/2024

LIC. NO: 26422



CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST. STE. 240
DULUTH, MN 55802

CITY OF DULUTH 2024 STREET PRESERVATION

CITY PROJECT NO.: 2090

STATE AID PROJECT NO.: N/A


DRAWN BY: WRT/CMW/CRJ

STATEMENT OF ESTIMATED QUANTITIES - 6.1

SHEET NO. 12 OF 296

STATEMENT OF ESTIMATED QUANTITIES						MILL & OVERLAY		FULL DEPTH RECLAMATION							
ITEM NO.	SEQ NOTES	SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	N 81ST AVE W	N 84TH AVE W	CRESCENT VIEW AVE	OLD HOWARD MILL RD	RUSTWOOD LN	E 7TH ST	MYRTLE PL	MAIN ST	MIDWAY AVE	MEADOW ST
46		2503.503	12" RC PIPE SEWER DES. 3006 CL V	LIN FT	729	0	0	0	0	63	136	43	24	0	79
47		2503.503	15" RC PIPE SEWER DES. 3006 CL V	LIN FT	648	0	0	0	0	0	28	0	63	0	0
48		2503.503	18" RC PIPE SEWER DES. 3006 CL V	LIN FT	510	0	0	0	0	0	486	0	24	0	0
49		2503.503	21" RC PIPE SEWER DES. 3006 CL V	LIN FT	706	0	0	0	0	0	0	0	390	0	255
50		2503.503	22" SPAN RC PIPE-ARCH SEWER CLASS IVA	LIN FT	41	0	0	0	0	0	0	0	0	0	0
51		2503.503	30" RC PIPE SEWER DES. 3006 CL V	LIN FT	19	0	0	0	0	0	0	0	0	0	19
52		2503.602	CONNECT INTO EXISTING SANITARY SEWER	EACH	3	0	0	0	0	0	0	0	0	0	0
53		2503.603	PLUG & ABANDON PIPE SEWER	EACH	5	0	0	0	0	0	0	0	0	0	1
54		2503.603	8" PVC SEWER PIPE	LIN FT	24	0	0	0	0	0	0	0	0	0	0
55		2503.603	12" HDPE PIPE SEWER	LIN FT	703	0	0	0	0	0	0	0	0	0	0
56		2503.603	16" HDPE PIPE SEWER	LIN FT	144	0	0	0	0	0	144	0	0	0	0
57	10	2504.602	ADJUST VALVE BOX	EACH	13	0	0	0	0	0	0	0	0	0	0
58	10	2504.602	ADJUST VALVE BOX (SPECIAL)	EACH	45	0	0	0	0	0	0	0	0	0	0
59		2504.602	ADJUST CURB BOX	EACH	93	0	6	1	1	0	0	0	0	0	7
60		2504.602	CONCRETE ENCASED VALVE BOX COLLAR	EACH	51	0	0	0	7	3	1	0	0	0	1
61	11	2506.502	CASTING ASSEMBLY	EACH	138	0	0	6	6	1	14	2	8	0	6
62		2506.502	CONST 48" DRAINAGE STRUCTURE DESIGN F	LIN FT	64.0	0.0	0.0	0.0	0.0	0.0	30.2	0.0	9.3	0.0	10.3
63		2506.502	CONST DRAINAGE STRUCTURE DESIGN 60-4020	LIN FT	17.9	0.0	0.0	0.0	0.0	0.0	13.4	0.0	4.5	0.0	0.0
64		2506.503	CONST DRAINAGE STRUCTURE DESIGN SD-48	LIN FT	106.3	0.0	0.0	0.0	0.0	0.0	23.0	6.0	18.8	0.0	18.9
65	23	2506.503	CONST DRAINAGE STRUCTURE DESIGN SPECIAL	EACH	9	0	0	0	0	0	0	0	0	0	0
66	11	2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LIN FT	59	0	0	6	18	3	0	0	0	0	0
67	24	2506.602	ADJUST FRAME RING & CASTING	EACH	129	0	0	0	3	3	0	0	2	0	0
68	24	2506.602	ADJUST FRAME RING & CASTING (SPECIAL)	EACH	85	0	4	0	0	0	0	0	0	0	0
69	12	2506.602	CONNECT INTO EXISTING STORM SEWER	EACH	11	0	0	0	0	0	1	0	3	0	3
70	13	2506.602	CONNECT INTO EXISTING MH OR CB	EACH	11	0	0	1	0	1	0	1	0	0	2
71	11	2506.602	CONCRETE ENCASED CASTING COLLAR	EACH	42	2	0	5	7	0	5	0	3	0	3
72		2511.507	RIPRAP CLASS IV	CU YD	366	0	0	0	0	0	249	0	0	0	0
73	14	2521.518	4" CONCRETE WALK	SQ FT	71339	288	244	0	0	0	1262	0	722	30	4584
74	14	2521.518	6" CONCRETE WALK	SQ FT	15264	241	264	0	0	0	244	0	1774	0	81
75		2521.518	INTEGRAL SIDEWALK	SQ FT	5431	0	0	0	0	0	0	0	0	0	0
76	15	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	28663	65	1246	565	899	351	443	605	1441	30	260
77	15	2531.503	CONCRETE CURB & GUTTER DESIGN B624 (MOD)	LIN FT	54	0	0	0	0	0	0	54	0	0	0
78	15	2531.503	CONCRETE CURB DESIGN V8 (MOD)	LIN FT	77	0	0	0	0	0	0	0	0	0	0
79	17	2531.504	7" CONCRETE DRIVEWAY PAVEMENT	SQ YD	3003	0	125	58	44	78	6	0	71	0	59
80	17	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	1312	0	0	0	0	0	0	0	72	0	0
81	15	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	36	0	0	0	0	0	0	36	0	0	0
82		2531.618	TRUNCATED DOMES	SQ FT	1826	32	32	0	0	0	32	0	160	0	16
83		2540.602	CONSTRUCT SURVEY MONUMENT	EACH	12	0	0	2	0	0	0	0	1	0	0
84		2563.601	TRAFFIC CONTROL	LUMP SUM	1	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
85	19	2564.602	INSTALL SIGN TYPE SPECIAL	EACH	4	0	0	0	0	0	0	0	0	0	0
86		2573.602	EROSION CONTROL MOBILIZATION	LUMP SUM	1	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
87		2574.507	BOULEVARD TOPSOIL BORROW	CU YD	65	0	0	0	0	0	0	0	0	0	0
88	20	2575.602	SITE RESTORATION	EACH	64	1	1	1	1	1	1	1	1	1	1
89		2582.503	24" SOLID LINE PAINT	LIN FT	55	0	0	0	0	0	0	0	0	0	0
90		2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	3318	0	0	0	0	0	0	0	0	0	0
91		2582.518	CROSSWALK PAINT	SQ FT	768	0	0	0	0	0	0	0	0	0	0

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: 

JEFF S. GOETZMAN
TYPE NAME

DATE: 03/05/2024

LIC. NO: 26422



CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST. STE. 240
DULUTH, MN 55802

CITY OF DULUTH 2024 STREET PRESERVATION

CITY PROJECT NO.: 2090

STATE AID PROJECT NO.: N/A


DRAWN BY: WRT/CMW/CRJ

STATEMENT OF ESTIMATED QUANTITIES - 6.2

SHEET NO. 13 OF 296

STATEMENT OF ESTIMATED QUANTITIES					FULL DEPTH RECLAMATION				
ITEM NO.	SEQ NOTES	SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	BROOK ST	LAWN ST	WATER ST	N 131ST AVE W
1		2021.501	MOBILIZATION	LUMP SUM	1	0.015	0.015	0.015	0.015
2		2101.501	CLEARING & GRUBBING	ACRE	0.21	0.00	0.00	0.00	0.00
3		2104.502	REMOVE CATCH BASIN	EACH	14	0	0	0	0
4		2104.502	REMOVE STRUCTURE	EACH	9	2	0	0	0
5		2104.502	REMOVE CASTING	EACH	81	0	0	0	0
6		2104.502	REMOVE PIPE APRON	EACH	12	0	4	0	6
7		2104.502	REMOVE VALVE BOX	EACH	5	0	0	0	0
8	1	2104.502	SALVAGE SIGN	EACH	1	0	0	0	0
9	2	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	13596	0	0	0	0
10		2104.503	SAWING BITUMINOUS PAVEMENT	LIN FT	3816	0	0	0	0
11	3	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	LIN FT	22182	149	328	147	206
12		2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	1809	314	41	0	93
13	3	2104.503	REMOVE CURB & GUTTER	LIN FT	24485	0	0	0	98
14	3, 4	2104.504	REMOVE PAVEMENT	SQ YD	36	0	0	0	0
15	3	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	2899	0	0	0	0
16	3	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	4869	56	112	92	19
17		2104.507	REMOVE CONCRETE STEPS	CU YD	19	0	0	0	0
18	2, 3	2104.518	REMOVE CONCRETE WALK	SQ FT	83854	0	0	0	80
19	3, 6	2104.618	REMOVE STONE PAVERS	SQ FT	22	0	0	0	0
20		2104.618	SALVAGE STONE PAVERS	SQ FT	28	0	0	0	0
21		2106.507	EXCAVATION - COMMON	CU YD	1339	5	29	117	0
22		2108.504	GEOTEXTILE FABRIC TYPE 7	SQ YD	374	0	0	0	0
23		2118.507	AGGREGATE SURFACING (CV) CLASS 1	CU YD	536	13	60	120	26
24		2118.507	AGGREGATE SURFACING (CV) CLASS 5	CU YD	765	5	29	33	4
25		2123.510	MOTOR GRADER	HOUR	16	0	0	0	0
26		2123.510	TAMPING ROLLER	HOUR	16	0	0	0	0
27	5	2131.506	CALCIUM CHLORIDE SOLUTION	GALLON	7823	546	1248	1598	370
28	6,7	2215.504	FULL DEPTH RECLAMATION	SQ YD	31273	2183	4992	6391	1481
29	8	2215.507	HAUL FULL DEPTH RECLAMATION (LV)	CU YD	2659	155	448	500	165
30		2232.504	MILL BITUMINOUS SURFACE (1.0")	SQ YD	43093	0	0	0	0
31		2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	69866	0	0	0	0
32		2232.604	MILL PAVEMENT	SQ YD	48878	0	0	0	0
33	9	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	10427	114	255	325	74
34	9	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)	TON	19871	0	0	0	0
35	9	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	TON	6752	488	1093	1377	311
36		2411.603	CONCRETE STEPS	CU YD	19	0	0	0	0
37		2501.502	12" CS PIPE APRON	EACH	56	0	0	0	0
38		2501.502	12" RC PIPE APRON	EACH	9	0	1	0	6
39		2501.502	18" RC PIPE APRON	EACH	1	0	1	0	0
40		2501.502	21" RC PIPE APRON	EACH	1	0	0	0	0
41		2501.502	22" SPAN RC PIPE-ARCH APRON	EACH	2	0	2	0	0
42	22	2501.602	MIDSLOPE PIPE ANCHOR	EACH	2	0	0	0	0
43		2501.603	CLEAN DRAINAGE DITCH	LIN FT	455	0	40	0	300
44	21	2502.603	SUMP CONNECTION	EACH	23	0	0	0	0
45		2502.503	6" PERF PE PIPE DRAIN	LIN FT	1255	0	0	0	0

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: 

JEFF S. GOETZMAN
TYPE NAME

DATE: 03/05/2024

LIC. NO: 26422



CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST. STE. 240
DULUTH, MN 55802

CITY OF DULUTH 2024 STREET PRESERVATION

CITY PROJECT NO.: 2090

STATE AID PROJECT NO.: N/A


DRAWN BY: WRT/CMW/CRJ

STATEMENT OF ESTIMATED QUANTITIES - 7.1

SHEET NO. 14 OF 296

STATEMENT OF ESTIMATED QUANTITIES						FULL DEPTH RECLAMATION			
ITEM NO.	SEQ NOTES	SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	BROOK ST	LAWN ST	WATER ST	N 131ST AVE W
46		2503.503	12" RC PIPE SEWER DES. 3006 CL V	LIN FT	729	246	0	0	93
47		2503.503	15" RC PIPE SEWER DES. 3006 CL V	LIN FT	648	0	0	0	0
48		2503.503	18" RC PIPE SEWER DES. 3006 CL V	LIN FT	510	0	0	0	0
49		2503.503	21" RC PIPE SEWER DES. 3006 CL V	LIN FT	706	0	0	0	0
50		2503.503	22" SPAN RC PIPE-ARCH SEWER CLASS IVA	LIN FT	41	0	41	0	0
51		2503.503	30" RC PIPE SEWER DES. 3006 CL V	LIN FT	19	0	0	0	0
52		2503.602	CONNECT INTO EXISTING SANITARY SEWER	EACH	3	0	0	0	0
53		2503.603	PLUG & ABANDON PIPE SEWER	EACH	5	1	0	0	0
54		2503.603	8" PVC SEWER PIPE	LIN FT	24	0	0	0	0
55		2503.603	12" HDPE PIPE SEWER	LIN FT	703	0	0	0	0
56		2503.603	16" HDPE PIPE SEWER	LIN FT	144	0	0	0	0
57	10	2504.602	ADJUST VALVE BOX	EACH	13	0	0	0	0
58	10	2504.602	ADJUST VALVE BOX (SPECIAL)	EACH	45	0	0	0	0
59		2504.602	ADJUST CURB BOX	EACH	93	11	0	0	0
60		2504.602	CONCRETE ENCASED VALVE BOX COLLAR	EACH	51	2	5	0	5
61	11	2506.502	CASTING ASSEMBLY	EACH	138	2	0	0	0
62		2506.502	CONST 48" DRAINAGE STRUCTURE DESIGN F	LIN FT	64.0	0.0	0.0	0.0	0.0
63		2506.502	CONST DRAINAGE STRUCTURE DESIGN 60-4020	LIN FT	17.9	0.0	0.0	0.0	0.0
64		2506.503	CONST DRAINAGE STRUCTURE DESIGN SD-48	LIN FT	106.3	5.4	0.0	0.0	0.0
65	23	2506.503	CONST DRAINAGE STRUCTURE DESIGN SPECIAL	EACH	9	0	0	0	0
66	11	2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LIN FT	59	0	0	0	0
67	24	2506.602	ADJUST FRAME RING & CASTING	EACH	129	0	0	0	0
68	24	2506.602	ADJUST FRAME RING & CASTING (SPECIAL)	EACH	85	0	0	0	0
69	12	2506.602	CONNECT INTO EXISTING STORM SEWER	EACH	11	1	0	0	0
70	13	2506.602	CONNECT INTO EXISTING MH OR CB	EACH	11	0	0	0	0
71	11	2506.602	CONCRETE ENCASED CASTING COLLAR	EACH	42	1	3	0	0
72		2511.507	RIPRAP CLASS IV	CU YD	366	0	0	117	0
73	14	2521.518	4" CONCRETE WALK	SQ FT	71339	0	0	0	0
74	14	2521.518	6" CONCRETE WALK	SQ FT	15264	0	0	0	80
75		2521.518	INTEGRAL SIDEWALK	SQ FT	5431	0	0	0	0
76	15	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	28663	0	0	0	98
77	15	2531.503	CONCRETE CURB & GUTTER DESIGN B624 (MOD)	LIN FT	54	0	0	0	0
78	15	2531.503	CONCRETE CURB DESIGN V8 (MOD)	LIN FT	77	0	0	0	0
79	17	2531.504	7" CONCRETE DRIVEWAY PAVEMENT	SQ YD	3003	14	0	0	19
80	17	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	1312	0	0	0	0
81	15	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	36	0	0	0	0
82		2531.618	TRUNCATED DOMES	SQ FT	1826	0	0	0	0
83		2540.602	CONSTRUCT SURVEY MONUMENT	EACH	12	0	0	0	0
84		2563.601	TRAFFIC CONTROL	LUMP SUM	1	0.015	0.015	0.015	0.015
85	19	2564.602	INSTALL SIGN TYPE SPECIAL	EACH	4	0	0	4	0
86		2573.602	EROSION CONTROL MOBILIZATION	LUMP SUM	1	0.015	0.015	0.015	0.015
87		2574.507	BOULEVARD TOPSOIL BORROW	CU YD	65	0	0	0	0
88	20	2575.602	SITE RESTORATION	EACH	64	1	1	1	1
89		2582.503	24" SOLID LINE PAINT	LIN FT	55	0	0	0	0
90		2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	3318	0	0	0	0
91		2582.518	CROSSWALK PAINT	SQ FT	768	0	0	0	0

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

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JEFF S. GOETZMAN
TYPE NAME

DATE: 03/05/2024

LIC. NO: 26422



CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST. STE. 240
DULUTH, MN 55802

CITY OF DULUTH 2024 STREET PRESERVATION

CITY PROJECT NO.: 2090

STATE AID PROJECT NO.: N/A

DRAWN BY: WRT/CMW/CRJ

STATEMENT OF ESTIMATED QUANTITIES - 7.2

SHEET NO. 15 OF 296

REMOVALS			A
STATION TO STATION	LT / RT	SPEC. 2104 SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	REMARKS
		LIN FT	
MYRTLE PLACE			
1+52 BOP	CL	26	BEGIN PROJECT JOINT
3+48	LT	27	105 E CENTRAL ENT.
5+32 EOP	CL	64	END PROJECT JOINT
TOTAL		117	

EXCAVATION AND GRADING				B
STATION TO STATION	LT / RT	SPEC. 2106	SPEC 2501	REMARKS
		EXCAVATION - COMMON	CLEAN DRAINAGE DITCH	
		CU YD	LIN FT	
MYRTLE PLACE				
1+85	LT	7		
5+00 TO 5+15	RT		15	DITCH TO EXISTING APRON
TOTAL		7	15	

MILLING AND RECLAMATION OPERATIONS					C
STATION TO STATION	LT / RT	SPEC. 2131	SPEC. 2215	SPEC. 2215	REMARKS
		CALCIUM CHLORIDE SOLUTION	FULL DEPTH RECLAMATION	HAUL FULL DEPTH RECLAMATION (LV)	
		GALLON	SQ YD	CU YD	
MYRTLE PLACE					
1+52 TO 5+32	CL	269	1073	84	
TOTAL		269	1073	84	

BITUMINOUS PAVEMENT				D
STATION TO STATION	LT / RT	SPEC. 2357	SPEC. 2360	REMARKS
		BITUMINOUS MATERIAL FOR TACK COAT	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	
		GALLON	TON	
MYRTLE PLACE				
1+52 TO 5+32	CL	54	225	
TOTAL		54	225	

ENCASEMENT AND REPAIR				E
STATION TO STATION	LT / RT	SPEC. 2506	REMARKS	
		CASTING ASSEMBLY		
		EACH		
MYRTLE PLACE				
5+00	14' RT	1	CB 100	
5+01	14' LT	1	CB 101	
TOTAL		2		

PROPOSED CONCRETE					F
STATION TO STATION	LT / RT	SPEC. 2531	SPEC. 2531	SPEC. 2531	REMARKS
		CONCRETE CURB & GUTTER DESIGN B624	CONCRETE CURB & GUTTER DESIGN B624 (MOD)	8" CONCRETE VALLEY GUTTER	
		LIN FT	LIN FT	SQ YD	
MYRTLE PLACE					
1+52 TO 3+01	LT	135			
1+93 TO 5+12	RT	335			
2+68 TO 2+96	LT			24	CONC. FLUME TO MH INLET
3+01 TO 3+50	LT		54		REJECT CURB
3+50 TO 3+59	LT	15			
3+50 TO 4+04	LT			12	VALLEY GUTTER ACROSS APRON
3+95 TO 5+11	LT	120			
TOTAL		605	54	36	

DRAINAGE CONSTRUCTION					H
STATION TO STATION	LT / RT	SPEC. 2503	SPEC. 2506	SPEC. 2506	REMARKS
		12" RC PIPE SEWER DES 3006 CL V	CONST DRAINAGE STRUCTURE DESIGN SD-48	CONNECT INTO EXISTING MH OR CB	
		LIN FT	LIN FT	EACH	
MYRTLE PLACE					
5+00	14' RT	27	3.0		CB 100 & PIPE TO CB 101
5+01	14' LT	16	3.0	1	CB101 & PIPE TO CB 0670012
TOTAL		43	6.0	1	

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TYPE NAME

DATE: 03/05/2024

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CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST. STE. 240
DULUTH, MN 55802

CITY OF DULUTH 2024 STREET PRESERVATION

CITY PROJECT NO.:2090

STATE AID PROJECT NO.:N/A

DRAWN BY:WRT/CMW/CRJ

MYRTLE PL - SEQ 1

SHEET NO. 249 OF 296

Project No. 2090
2024 Street Preservation
3/18/2024

	ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1	2021.501	MOBILIZATION	LUMP SUM	1
2	2101.501	CLEARING & GRUBBING	ACRE	0.21
3	2104.502	REMOVE CATCH BASIN	EACH	14
4	2104.502	REMOVE STRUCTURE	EACH	9
5	2104.502	REMOVE CASTING	EACH	81
6	2104.502	REMOVE PIPE APRON	EACH	12
7	2104.502	REMOVE VALVE BOX	EACH	5
8	2104.502	SALVAGE SIGN	EACH	1
9	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	13596
10	2104.503	SAWING BITUMINOUS PAVEMENT	LIN FT	3816
11	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	LIN FT	22182
12	2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	1809
13	2104.503	REMOVE CURB & GUTTER	LIN FT	24485
14	2104.504	REMOVE PAVEMENT	SQ YD	36
15	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	2899
16	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	4869
17	2104.507	REMOVE CONCRETE STEPS	CU YD	19
18	2104.518	REMOVE CONCRETE WALK	SQ FT	83854
19	2104.618	REMOVE STONE PAVERS	SQ FT	22
20	2104.618	SALVAGE STONE PAVERS	SQ FT	28
21	2106.507	EXCAVATION - COMMON	CU YD	1339
22	2108.504	GEOTEXTILE FABRIC TYPE 7	SQ YD	374
23	2118.507	AGGREGATE SURFACING (CV) CLASS 1	CU YD	536
24	2118.507	AGGREGATE SURFACING (CV) CLASS 5	CU YD	765
25	2123.51	MOTOR GRADER	HOUR	16
26	2123.51	TAMPING ROLLER	HOUR	16
27	2131.506	CALCIUM CHLORIDE SOLUTION	GALLON	7823
28	2215.504	FULL DEPTH RECLAMATION	SQ YD	31273
29	2215.507	HAUL FULL DEPTH RECLAMATION (LV)	CU YD	2659
30	2232.504	MILL BITUMINOUS SURFACE (1.0")	SQ YD	43093
31	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	69866
32	2232.604	MILL PAVEMENT	SQ YD	48878
33	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	10427
34	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)	TON	19871
35	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	TON	6752
36	2411.603	CONCRETE STEPS	CU YD	19
37	2501.502	12" CS PIPE APRON	EACH	56
38	2501.502	12" RC PIPE APRON	EACH	9
39	2501.502	18" RC PIPE APRON	EACH	1
40	2501.502	21" RC PIPE APRON	EACH	1
41	2501.502	22" SPAN RC PIPE-ARCH APRON	EACH	2
42	2501.602	MIDSLOPE PIPE ANCHOR	EACH	2
43	2501.603	CLEAN DRAINAGE DITCH	LIN FT	455
44	2502.603	SUMP CONNECTION	EACH	23
45	2502.503	6" PERF PE PIPE DRAIN	LIN FT	1255
46	2503.503	12" RC PIPE SEWER DES. 3006 CL V	LIN FT	729
47	2503.503	15" RC PIPE SEWER DES. 3006 CL V	LIN FT	648
48	2503.503	18" RC PIPE SEWER DES. 3006 CL V	LIN FT	510
49	2503.503	21" RC PIPE SEWER DES. 3006 CL V	LIN FT	706
50	2503.503	22" SPAN RC PIPE-ARCH SEWER CLASS IVA	LIN FT	41
51	2503.503	30" RC PIPE SEWER DES. 3006 CL V	LIN FT	19
52	2503.602	CONNECT INTO EXISTING SANITARY SEWER	EACH	3

53	2503.603	PLUG & ABANDON PIPE SEWER	EACH	5
54	2503.603	8" PVC SEWER PIPE	LIN FT	24
55	2503.603	12" HDPE PIPE SEWER	LIN FT	703
56	2503.603	16" HDPE PIPE SEWER	LIN FT	144
57	2504.602	ADJUST VALVE BOX	EACH	13
58	2504.602	ADJUST VALVE BOX (SPECIAL)	EACH	45
59	2504.602	ADJUST CURB BOX	EACH	93
60	2504.602	CONCRETE ENCASED VALVE BOX COLLAR	EACH	51
61	2506.502	CASTING ASSEMBLY	EACH	138
62	2506.502	CONST 48" DRAINAGE STRUCTURE DESIGN F	LIN FT	64.0
63	2506.502	CONST DRAINAGE STRUCTURE DESIGN 60-4020	LIN FT	17.9
64	2506.503	CONST DRAINAGE STRUCTURE DESIGN SD-48	LIN FT	106.3
65	2506.503	CONST DRAINAGE STRUCTURE DESIGN SPECIA	EACH	9.0
66	2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LIN FT	59
67	2506.602	ADJUST FRAME RING & CASTING	EACH	129
68	2506.602	ADJUST FRAME RING & CASTING (SPECIAL)	EACH	85
69	2506.602	CONNECT INTO EXISTING STORM SEWER	EACH	11
70	2506.602	CONNECT INTO EXISTING MH OR CB	EACH	11
71	2506.602	CONCRETE ENCASED CASTING COLLAR	EACH	42
72	2511.507	RIPRAP CLASS IV	CU YD	366
73	2521.518	4" CONCRETE WALK	SQ FT	71339
74	2521.518	6" CONCRETE WALK	SQ FT	15264
75	2521.518	INTEGRAL SIDEWALK	SQ FT	5431
76	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	28663
77	2531.503	CONCRETE CURB & GUTTER DESIGN B624 (MOD	LIN FT	54
78	2531.503	CONCRETE CURB DESIGN V8 (MOD)	LIN FT	77
79	2531.504	7" CONCRETE DRIVEWAY PAVEMENT	SQ YD	3003
80	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	1312
81	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	36
82	2531.618	TRUNCATED DOMES	SQ FT	1826
83	2540.602	CONSTRUCT SURVEY MONUMENT	EACH	12
84	2563.601	TRAFFIC CONTROL	LUMP SUM	1
85	2564.602	INSTALL SIGN TYPE SPECIAL	EACH	4
86	2573.602	EROSION CONTROL MOBILIZATION	LUMP SUM	1
87	2574.507	BOULEVARD TOPSOIL BORROW	CU YD	65
88	2575.602	SITE RESTORATION	EACH	64
89	2582.503	24" SOLID LINE PAINT	LIN FT	55
90	2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	3318
91	2582.518	CROSSWALK PAINT	SQ FT	768