Purchasing Division
Finance Department

Room 120
411 West First Street
Duluth, Minnesota 55802

218-730-5340
purchasing@duluthmn.gov

Addendum 2
Solicitation 25-99371
2025 Street Preservation Project
City Project 2194

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

1. CHANGES TO INVITATION TO BID:

   Replace Bid Worksheet (ATTACHED). Summary of changes:
   - Deleted Items:
     - 2123.510 MOTOR GRADER
   - Renumbered Line Item numbers
   - Revised total quantities.

2. CHANGES TO DRAWING:

   a. REISSUE THE FOLLOWING PLAN SHEETS:
      i. SHEET 3 – STATEMENT OF ESTIMATED QUANTITIES PART 1
      ii. SHEET 4 – STATEMENT OF ESTIMATED QUANTITIES PART 2
      iii. SHEET 5 – STATEMENT OF ESTIMATED QUANTITIES PART 3
      iv. SHEET 6 – STATEMENT OF ESTIMATED QUANTITIES PART 4
      v. SHEET 37 – FALCON STREET TABULATIONS
      vi. SHEET 44 – 86TH AVE WEST TABULATIONS
      vii. SHEET 48 – EDWARD STREET TABULATIONS
      viii. SHEET 58 – ANDERSON ROAD TABULATIONS
      ix. SHEET 68 – CLIFF AVENUE & PLUM STREET TABULATIONS
      x. SHEET 78 – HIGH STREET & TRIGGS AVENUE TABULATIONS
      xi. SHEET 89 – BAYLIS STREET TABULATIONS
      xii. SHEET 93 – HIGH STREET 2 TABULATIONS
      xiii. SHEET 100 – LONDON ROAD TABULATIONS
      xiv. SHEET 119 – 57TH AVENUE TABULATIONS
      xv. SHEET 127 – 1ST STREET ALLEY TABULATIONS
      xvi. SHEET 135 – CLYDE AVENUE TABULATIONS
      xvii. SHEET 140 – MAPLE GROVE ROAD TABULATIONS
      xviii. SHEET 148 – OBSERVATION ROAD TABULATIONS

xix. SHEET 156 – BERKLEY ROAD TABULATIONS
xx. SHEET 161 – PALISADE DRIVE TABULATIONS
xxi. SHEET 169 – PARKWOOD LANE TABULATIONS
xxii. SHEET 175 – PORTAGE DRIVE TABULATIONS
xxiii. SHEET 180 – KARL AVENUE TABULATIONS
xxiv. SHEET 184 – ASBURY DRIVE TABULATIONS
xxv. SHEET 189 – ECHO LANE TABULATIONS
xxvi. SHEET 193 – PALISADE CIRCLE TABULATIONS
xxvii. SHEET 197 – TALMADGE CIRCLE TABULATIONS
xxviii. SHEET 201 – WILDBERRY CIRCLE TABULATIONS
xxix. SHEET 206 – SILVER FOX CIRCLE TABULATIONS
xxx. SHEET 210 – TWIN CREEKS CIRCLE TABULATIONS
xxxi. SHEET 214 – STANFORD AVENUE TABULATIONS
xxxii. SHEET 221 – OLIVE STREET TABULATIONS

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

Posted: **April 10, 2025**

STATEMENT OF ESTIMATED QUANTITIES PART 1

			CONSTRUCTION METHOD		MILL & OVERLAY									REPLACE	MULTIPLE	OVERLAY		
			ALIGNMENT START STATION		100	200	300	1900	2400	2500	2600	2700	2800	500	1800	400	2000	2300
LINE ITEM NO.	NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	FALCON STREET	86TH AVENUE WEST	EDWARD STREET	ANDERSON ROAD	CLIFF AVENUE	HIGH STREET	BAYLIS STREET	HIGH STREET (2)	LONDON ROAD	57TH AVENUE	1ST STREET ALLEY	CLYDE AVENUE	MAPLE GROVE ROAD	OBSERVATION ROAD
1		2021.501	MOBILIZATION	LUMP SUM	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
2		2104.502	REMOVE CASTING	EACH		1	13	32	6	2	3		11			2		11
3		2104.502	REMOVE CATCH BASIN	EACH		1		3	2	1		3	2	3		3		1
4		2104.502	REMOVE MANHOLE (STORM)	EACH				3	1					3		1		
5	1, 2	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	151	65	721	137	133	126			714	627	183			5
6	1, 2	2104.503	SAWING BITUMINOUS PAVEMENT	LIN FT		45												
7	1, 2	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	468		111	2489	3290	1640	282	200	831	5		127	639	427
8		2104.503	REMOVE SEWER PIPE (STORM)	LIN FT		48	8	192	16			84		426		199		
9		2104.503	REMOVE CURB & GUTTER	LIN FT	446	62	708	1843	2814	1298	202	67	1321	176	27	20	382	140
10	3	2104.504	REMOVE PAVEMENT	SQ YD											803			
11		2104.504	REMOVE CONCRETE PAVEMENT	SQ YD					130				489	1173				
12		2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	108				998	650	107		222	62				
13		2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	47			80				64	31					
14		2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	40	5	12	158		120			255				16	
15		2104.518	REMOVE CONCRETE WALK	SQ FT	2372	715	4388						8002	332		289		8
16		2105.607	COMMON BORROW (LV)	CU YD					100									
17		2106.603	CONSTRUCT DRAINAGE DITCH	LIN FT				10								20		
18		2105.607	COMMON EXCAVATION	CU YD						100								
19		2123.510	STREET SWEEPER (WITH PICKUP BROOM)	HOUR														
20	5	2131.506	CALCIUM CHLORIDE SOLUTION	GALLON														
21		2211.507	AGGREGATE BASE (CV) CLASS 5	CU YD						51					229			
22	7	2215.504	FULL DEPTH RECLAMATION	SQ YD														
23	8	2215.507	HAUL FULL DEPTH RECLAMATION (LV)	CU YD														
24	9	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	2334	1306	3400	17590	6470	4511	547		14312		2030			
25	9	2232.504	MILL BITUMINOUS SURFACE (3.0")	SQ YD								954						
26		2301.502	DOWEL BAR	EACH										1330				
27		2301.602	DRILL & GROUT DOWEL BAR (EPOXY COATED)	EACH										1051				
28		2301.602	DRILL & GROUT REINF BAR (EPOXY COATED)	EACH										279				
29		2357.506	BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY)	GAL	117	66	170	880	324	235	28	48	716	4	172	225	485	815
30		2360.509	TYPE SP 9.5 WEARING COURSE MIX (3,B)	TON	430	212	490	2120	897	564	66	172	2148	14	443	539	1163	1955
31		2360.509	TYPE SP 9.5 WEARING COURSE MIX (3,C)	TON			12											
32		2411.607	CONCRETE STEPS	CU YD		5												
33		2451.607	TRENCH BACKFILL (CV)	CU YD		71		273	24			124		985	290	79		
34		2501.502	12" RC PIPE APRON	EACH				1										
35		2501.502	18" RC PIPE APRON	EACH				1								2		
36		2501.502	24" RC PIPE APRON	EACH										1				
37		2501.502	INSTALL PIPE APRON	EACH														
38		2501.503	INSTALL PIPE CULVERT	LIN FT														
39		2501.603	CLEAN DRAINAGE DITCH	LIN FT														
40		2502.503	6" PERF PE PIPE DRAIN	LIN FT														
41		2502.602	6" PVC PIPE DRAIN CLEANOUT	LIN FT														
42		2503.503	12" RC PIPE SEWER DES 3006	LIN FT		48	8	117	16			84		162	245	53		
43		2503.503	15" RC PIPE SEWER DES 3006	LIN FT														
44		2503.503	18" RC PIPE SEWER DES 3006	LIN FT				67						299		124		

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA®

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

DULUTH PROJECT NO. 2194

STATEMENT OF ESTIMATED QUANTITIES PART 1

TKDA PROJ. NO. 22008.000
DRAWING NO. 3

PLOT DATE: Apr 10, 2025 - 11:18am
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Streets\Statement of Estimated Quantities.dwg

STATEMENT OF ESTIMATED QUANTITIES PART 2

					MILL & OVERLAY									REPLACE	MULTIPLE	OVERLAY		
CONSTRUCTION METHOD																		
ALIGNMENT START STATION					100	200	300	1900	2400	2500	2600	2700	2800	500	1800	400	2000	2300
LINE ITEM NO.	NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	FALCON STREET	86TH AVENUE WEST	EDWARD STREET	ANDERSON ROAD	CLIFF AVENUE	HIGH STREET	BAYLIS STREET	HIGH STREET (2)	LONDON ROAD	57TH AVENUE	1ST STREET ALLEY	CLYDE AVENUE	MAPLE GROVE ROAD	OBSERVATION ROAD
45		2503.503	24" RC PIPE SEWER DES 3006	LIN FT										96				
46	12, 13	2503.602	CONNECT TO EXISTING STORM SEWER	EACH		1		5	2			1		4	2	1		
47		2503.602	CONNECT TO EXISTING PIPE DRAIN	EACH														1
48		2503.602	BULKHEAD	EACH										1				
49		2503.602	12" PIPE PLUG	EACH										1				
50		2503.603	PLUG FILL & ABANDON PIPE SEWER	LIN FT										115				
51		2504.602	ADJUST CURB BOX	EACH														
52		2504.602	ADJUST CURB STOP	EACH	1	2	7											
53	10	2504.602	ADJUST VALVE BOX	EACH	6		7	7				1	11					
54		2504.602	ADJUST VALVE BOX (SPECIAL)	EACH													16	
55	24	2504.602	CONCRETE ENCASED VALVE BOX COLLAR	EACH														
56		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN F	EACH										3	2			
57		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	EACH				3	1						2	1		
58		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020	EACH										2				
59		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020	EACH										1				
60		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48	EACH												1		
61		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL	EACH				3	2	2		3	2	5	3	2		1
62	20	2506.502	CASTING ASSEMBLY	EACH		1	13	30	6	2	3		11			2		11
63		2506.502	ADJUST FRAME & RING CASTING	EACH	1	4	9	11	2	4			8		2			
64		2506.502	ADJUST FRAME & RING CASTING (SPECIAL)	EACH													25	2
65		2506.502	REPAIR DRAINAGE STRUCTURE	EACH														
66	13	2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LIN FT	3	3	9	32	6	9		6	12			3		11
67		2506.602	CONNECT TO EXISTING STRUCTURE	EACH				2										
68		2506.602	CONCRETE ENCASED CASTING COLLAR	EACH	3	3	9	32	6	9		6	12			3		11
69	14	2521.518	4" CONCRETE WALK	SQ FT	1922	715	4199						8002			289		8
70	15, 17	2521.518	6" CONCRETE WALK	SQ FT	450		189							332				
71	22	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	446	62	708	1843	604	84			1321	176	27		382	140
72	22	2531.503	CONCRETE CURB & GUTTER DESIGN S424	LIN FT					2210	1376	203	622			268			
73		2531.503	CONCRETE CURB DESIGN V6	LIN FT	44		16											
74	18	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	40	5	12	158	485	428	107	68	255	1173	29		16	
75	17	2531.618	TRUNCATED DOMES	SQ FT	108		112											
76		2540.602	CONSTRUCT SURVEY MONUMENT	EACH													1	
77		2557.602	INSTALL VEHICULAR GATE	EACH										1				
78		2563.601	TRAFFIC CONTROL	LUMP SUM	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
79		2573.502	STORM DRAIN INLET PROTECTION	EACH	6										3	4	12	2
80		2573.502	CULVERT END CONTROLS	EACH												1		
81	19	2575.602	EROSION CONTROL MOBILIZATION	EACH	1	1	1	1	1	1	1	1	1	1	1	1	1	1
82		2582.503	4" SOLID LINE PAINT	LIN FT														10710
83		2582.503	12" SOLID LINE PAINT	LIN FT	12													
84		2582.503	24" SOLID LINE PAINT	LIN FT														28
85		2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	89			4525									89	5527
86		2582.503	4" SOLID LINE MULTI COMP GR IN (WR)	LIN FT									11156					
87		2582.503	4" BROKEN LINE MULTI COMP GR IN (WR)	LIN FT									498					
88		2582.518	4" DOTTED LINE MULTI COMP GR IN (WR)	LIN FT									44					
89		2582.518	PAVT MSSG MULTI COMP GR IN (WR)	SQ FT									560					
90		2582.518	CROSSWALK PAINT	SQ FT	24													
91		2582.518	CROSSWALK MULTI COMP GR IN (WR)	SQ FT									240					

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

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SIGNATURE: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA®

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

DULUTH PROJECT NO. 2194

STATEMENT OF ESTIMATED QUANTITIES PART 2

TKDA PROJ. NO. 22008.000
DRAWING NO. 4

PLOT DATE: Apr 10, 2025 - 11:18am
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\StatementofEstimated Quantities.dwg

STATEMENT OF ESTIMATED QUANTITIES PART 3

						RECLAIM													
CONSTRUCTION METHOD																			
ALIGNMENT START STATION						600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	2100	2200
LINE ITEM NO.	NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITIES	BERKLEY ROAD	PALISADE DRIVE	PARKWOOD LANE	PORTAGE DRIVE	KARL AVENUE	ASBURY DRIVE	ECHO LANE	PALISADE CIRCLE	TALMADGE CIRCLE	WILDBERRY CIRCLE	SILVER FOX CIRCLE	TWIN CREEKS CIRCLE	STANFORD AVENUE	WEST OLIVE STREET
1		2021.501	MOBILIZATION	LUMP SUM	1.00	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.03
2		2104.502	REMOVE CASTING	EACH	87			3	2				1						
3		2104.502	REMOVE CATCH BASIN	EACH	31	3	2	3			2	1			1				
4		2104.502	REMOVE MANHOLE (STORM)	EACH	8														
5	1, 2	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	4631	76	195	253	54		951	221	19						
6	1, 2	2104.503	SAWING BITUMINOUS PAVEMENT	LIN FT	45														
7	1, 2	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	20836	493	2533	2408	1663	731			402	101	347	203	339	737	370
8		2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	1357	64	46	67	69		42	15	20			50	11		
9		2104.503	REMOVE CURB & GUTTER	LIN FT	18725	384	2141	2114	1593	558	956	190	358	101	276	210	338		
10	3	2104.504	REMOVE PAVEMENT	SQ YD	803														
11		2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	1844	40				12									
12		2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	3650	6	483	488	356	4			81				76		8
13		2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	1212		116	34	84		22	8	16		11		12	687	
14		2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	1102		183	158	27		52	5	10		21		39		
15		2104.518	REMOVE CONCRETE WALK	SQ FT	16133								27						
16		2105.607	COMMON BORROW (LV)	CU YD	100														
17		2106.603	CONSTRUCT DRAINAGE DITCH	LIN FT	50												20		
18		2105.607	COMMON EXCAVATION	CU YD	100														
19		2123.510	STREET SWEEPER (WITH PICKUP BROOM)	HOUR	25														
20	5	2131.506	CALCIUM CHLORIDE SOLUTION	GALLON	12724	349	2374	2754	1364	442	853	412	224	272	270	277	402	1820	915
21		2211.507	AGGREGATE BASE (CV) CLASS 5	CU YD	280														
22	7	2215.504	FULL DEPTH RECLAMATION	SQ YD	50917	1394	9495	11016	5457	1766	3410	1646	894	1086	1081	1108	1607	7278	3679
23	8	2215.507	HAUL FULL DEPTH RECLAMATION (LV)	CU YD	3170		1200	1392					113						465
24	9	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	52500														
25	9	2232.504	MILL BITUMINOUS SURFACE (3.0")	SQ YD	954														
26		2301.502	DOWEL BAR	EACH	1330														
27		2301.602	DRILL & GROUT DOWEL BAR (EPOXY COATED)	EACH	1051														
28		2301.602	DRILL & GROUT REINF BAR (EPOXY COATED)	EACH	279														
29		2357.506	BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY)	GAL	6529	70	475	551	273	89		83	45	55	55			364	184
30		2360.509	TYPE SP 9.5 WEARING COURSE MIX (3,B)	TON	11213														
31		2360.509	TYPE SP 9.5 WEARING COURSE MIX (3,C)	TON	11845	295	2016	2645	1663	371	717	346	190	228	228	333	389	1529	883
32		2411.607	CONCRETE STEPS	CU YD	5														
33		2451.607	TRENCH BACKFILL (CV)	CU YD	696	95	40	79	82	9	58	22	30		259		16		
34		2501.502	12" RC PIPE APRON	EACH	1849		1				1						1		
35		2501.502	18" RC PIPE APRON	EACH	1														
36		2501.502	24" RC PIPE APRON	EACH	3														
37		2501.502	INSTALL PIPE APRON	EACH	4			1		1		1							
38		2501.503	INSTALL PIPE CULVERT	LIN FT	16					8		8							
39		2501.603	CLEAN DRAINAGE DITCH	LIN FT	1320													1105	215
40		2502.503	6" PERF PE PIPE DRAIN	LIN FT	4540		809	3400					331						
41		2502.602	6" PVC PIPE DRAIN CLEANOUT	LIN FT	16		6	8					2						
42		2503.503	12" RC PIPE SEWER DES 3006	LIN FT	475	64	27	67	69		27	15	20		175		11		
43		2503.503	15" RC PIPE SEWER DES 3006	LIN FT	745						12								
44		2503.503	18" RC PIPE SEWER DES 3006	LIN FT	490														

2 ADDED ITEM 2123.510 STREET SWEEPER (WITH PICKUP BROOM)

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

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

DULUTH PROJECT NO. 2194

STATEMENT OF ESTIMATED QUANTITIES PART 3

TKDA PROJ. NO. 22008.000
DRAWING NO. 5

PLOT DATE: Apr 10, 2025 - 11:18am
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\Statement of Estimated Quantities.dwg

STATEMENT OF ESTIMATED QUANTITIES PART 4

						RECLAIM													
CONSTRUCTION METHOD																			
ALIGNMENT START STATION						600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	2100	2200
LINE ITEM NO.	NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITIES	BERKLEY ROAD	PALISADE DRIVE	PARKWOOD LANE	PORTAGE DRIVE	KARL AVENUE	ASBURY DRIVE	ECHO LANE	PALISADE CIRCLE	TALMADGE CIRCLE	WILDBERRY CIRCLE	SILVER FOX CIRCLE	TWIN CREEKS CIRCLE	STANFORD AVENUE	WEST OLIVE STREET
45		2503.503	24" RC PIPE SEWER DES 3006	LIN FT	96														
46	12, 13	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	33		4	1	2	3	2	2	1		2				
47		2503.602	CONNECT TO EXISTING PIPE DRAIN	EACH	1														
48		2503.602	BULKHEAD	EACH	1														
49		2503.602	12" PIPE PLUG	EACH	1														
50		2503.603	PLUG FILL & ABANDON PIPE SEWER	LIN FT	115														
51		2504.602	ADJUST CURB BOX	EACH	2	1								1					
52		2504.602	ADJUST CURB STOP	EACH	10														
53	10	2504.602	ADJUST VALVE BOX	EACH	65	3	7	10	6	1		1	1					4	
54		2504.602	ADJUST VALVE BOX (SPECIAL)	EACH	16														
55	24	2504.602	CONCRETE ENCASED VALVE BOX COLLAR	EACH	34	3	7	10	6	1		1	1				1	4	
56		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN F	EACH	5														
57		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	EACH	30	1	6	13				1			2				
58		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020	EACH	3						1								
59		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020	EACH	1														
60		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48	EACH	1														
61		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL	EACH	35		7	4							1				
62	20	2506.502	CASTING ASSEMBLY	EACH	84			3	2										
63		2506.502	ADJUST FRAME & RING CASTING	EACH	95	1	11	19	7	4	4	2	1		1	1	2		1
64		2506.502	ADJUST FRAME & RING CASTING (SPECIAL)	EACH	27														
65		2506.502	REPAIR DRAINAGE STRUCTURE	EACH	2												2		
66	13	2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LIN FT	140		13	2	8									23	2
67		2506.602	CONNECT TO EXISTING STRUCTURE	EACH	18		1	7	4				3				1		
68		2506.602	CONCRETE ENCASED CASTING COLLAR	EACH	143		13	2	8								3	23	2
69	14	2521.518	4" CONCRETE WALK	SQ FT	15162								27						
70	15, 17	2521.518	6" CONCRETE WALK	SQ FT	971														
71	22	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	14821	384	2141	2136	1380	558	956	190	358	101	276	210	338		
72	22	2531.503	CONCRETE CURB & GUTTER DESIGN S424	LIN FT	4679														
73		2531.503	CONCRETE CURB DESIGN V6	LIN FT	60														
74	18	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	3301	40	183	158	27	12	52	5	10				39		
75	17	2531.618	TRUNCATED DOMES	SQ FT	220														
76		2540.602	CONSTRUCT SURVEY MONUMENT	EACH	1														
77		2557.602	INSTALL VEHICULAR GATE	EACH	1														
78		2563.601	TRAFFIC CONTROL	LUMP SUM	1.00	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.03
79		2573.502	STORM DRAIN INLET PROTECTION	EACH	39				9							1	2		
80		2573.502	CULVERT END CONTROLS	EACH	1														
81	19	2575.602	EROSION CONTROL MOBILIZATION	EACH	28	1	1	1	1	1	1	1	1	1	1	1	1	1	1
82		2582.503	4" SOLID LINE PAINT	LIN FT	10710														
83		2582.503	12" SOLID LINE PAINT	LIN FT	12														
84		2582.503	24" SOLID LINE PAINT	LIN FT	28														
85		2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	10230														
86		2582.503	4" SOLID LINE MULTI COMP GR IN (WR)	LIN FT	11156														
87		2582.503	4" BROKEN LINE MULTI COMP GR IN (WR)	LIN FT	498														
88		2582.518	4" DOTTED LINE MULTI COMP GR IN (WR)	LIN FT	44														
89		2582.518	PAVT MSSG MULTI COMP GR IN (WR)	SQ FT	560														
90		2582.518	CROSSWALK PAINT	SQ FT	24														
91		2582.518	CROSSWALK MULTI COMP GR IN (WR)	SQ FT	240														

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: _____ DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA®

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

DULUTH PROJECT NO. 2194

STATEMENT OF ESTIMATED QUANTITIES PART 4

TKDA PROJ. NO. 22008.000
DRAWING NO. 6

PLOT DATE: Apr 10, 2025 - 11:18am
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\Statement of Estimated Quantities.dwg

REMOVALS & SAWCUTS

A

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING (EACH)	2104.502 REMOVE CATCH BASIN (EACH)	2104.502 REMOVE MANHOLE (STORM) (EACH)	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 REMOVE SEWER PIPE (STORM) (LIN FT)	2104.503 REMOVE CURB & GUTTER (LIN FT)	2104.504 REMOVE PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT (SQ YD)	2104.518 REMOVE CONCRETE WALK (SQ FT)	REMARKS
FALCON STREET																
101+36 TO 102+50	LEFT				9										256	
101+52 TO 101+93	RIGHT				8		42		50			10	5	17	84	
101+59 TO 101+93	LEFT						34		34			8		15		
101+99 TO 102+25	RIGHT				13										192	
102+20 TO 102+50	LEFT				9										128	
102+94 TO 103+23	LEFT				9		42		42			11			165	
103+32 TO 103+67	RIGHT				14		31		31			7			227	
103+40 TO 104+10	LEFT				9		45		45			12			404	
104+43 TO 104+48	RIGHT				8										19	
104+58 TO 104+68	RIGHT				8										38	
104+60 TO 104+78	LEFT				9										82	
104+76 TO 105+03	LEFT						27		27			6				
104+87 TO 105+07	RIGHT				8										76	
104+89 TO 104+93	RIGHT						4		4			1				
105+19 TO 105+24	LEFT				9										22	
105+47 TO 105+57	RIGHT				8										38	
105+49 TO 105+62	LEFT						14		14			3				
106+00 TO 106+15	LEFT				9										68	
106+35 TO 106+67	LEFT				9		33		33			9			282	
106+58 TO 106+64	RIGHT						7		7			2				
106+83 TO 107+19	LEFT				8		51		51			13			114	
108+02 TO 108+44	LEFT				4		92		62			15	42	8	177	
108+14 TO 108+66	RIGHT						46		46			11				
PROJECT ITEM TOTALS		**0**	**0**	**0**	**151**	**0**	**468**	**0**	**446**	**0**	**0**	**108**	**47**	**40**	**2372**	

BITUMINOUS & AGGREGATE

B

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) (HOUR)	2131.506 CALCIUM CHLORIDE SOLUTION (GALLON)	2211.507 AGGREGATE BASE (CV) CLASS 5 (CU YD)	2215.504 FULL DEPTH RECLAMATION (SQ YD)	2215.507 HAUL FULL DEPTH RECLAMATION (LV) (CU YD)	2232.504 MILL BITUMINOUS SURFACE (2.0") (SQ YD)	2232.504 MILL BITUMINOUS SURFACE (3.0") (SQ YD)	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) (GAL)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) (TON)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) (TON)	2451.607 TRENCH BACKFILL (CV) (CU YD)	REMARKS
FALCON STREET													
100+64 TO 108+71	LEFT AND RIGHT						2334		117	351			
100+64 TO 108+71	LEFT AND RIGHT									70			LEVELING
101+52 TO 101+93	RIGHT									1			
108+02 TO 108+44	LEFT									8			
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**2334**	**0**	**117**	**430**	**0**	**0**	

DRAINAGE

C

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON (EACH)	2501.502 18" RC PIPE APRON (EACH)	2501.502 24" RC PIPE APRON (EACH)	2501.502 INSTALL PIPE APRON (EACH)	2501.503 INSTALL PIPE CULVERT (LIN FT)	2106.603 CONSTRUCT DRAINAGE DITCH (LIN FT)	2501.603 CLEAN DRAINAGE DITCH (LIN FT)	2502.503 4" PVC PIPE DRAIN (LIN FT)	2502.503 6" PERF PE PIPE DRAIN (LIN FT)	2502.602 6" PVC PIPE DRAIN CLEANOUT (EACH)	2503.503 12" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 15" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 18" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 24" RC PIPE SEWER DES 3006 (LIN FT)	2503.602 CONNECT TO EXISTING STORM SEWER (EACH)	2503.602 CONNECT TO EXISTING PIPE DRAIN (EACH)	2503.602 BULKHEAD (EACH)	2503.602 12" PIPE PLUG (EACH)	2503.603 PLUG FILL & ABANDON PIPE SEWER (LIN FT)	2506.602 CONNECT TO EXISTING STRUCTURE (EACH)	REMARKS
FALCON STREET																						
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA

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

DULUTH PROJECT NO. 2194

FALCON STREET TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 37

PLOT DATE: Apr 09, 2025 - 5:30pm
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\Falcon St Tabulations.dwg

REMOVALS & SAWCUTS — A

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING EACH	2104.502 REMOVE CATCH BASIN EACH	2104.502 REMOVE MANHOLE (STORM) EACH	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) LIN FT	2104.503 REMOVE SEWER PIPE (STORM) LIN FT	2104.503 REMOVE CURB & GUTTER LIN FT	2104.504 REMOVE PAVEMENT SQ YD	2104.504 REMOVE CONCRETE PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT SQ YD	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT SQ YD	2104.518 REMOVE CONCRETE WALK SQ FT	REMARKS
86TH AVE W																
201+32 TO 201+52	LEFT														89	SIDEWALK
201+88 TO 202+13	RIGHT				24				24							
202+01 TO 202+13	LEFT		1		12				9							REMOVE CB0090058
202+08 TO 202+50	RIGHT	1						48								ST0090041 TO ROW
202+56 TO 202+64	RIGHT				9				9							
203+13 to 203+55	LEFT														44	
203+65 TO 203+75	LEFT														185	
203+44 TO 203+62	RIGHT													5		DRIVEWAY: 1106
204+06 TO 204+68	LEFT														293	
204+06 TO 204+98	LEFT														104	
205+16 TO 205+19	RIGHT				20				20							PORKCHOP C&G
205+35 & 205+27	ACROSS					45										E.O.P SAW CUTS
PROJECT ITEM TOTALS		**1**	**1**	**0**	**65**	**45**	**0**	**48**	**62**	**0**	**0**	**0**	**0**	**5**	**715**	

BITUMINOUS & AGGREGATE

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) HOUR	2131.506 CALCIUM CHLORIDE SOLUTION GALLON	2211.507 AGGREGATE BASE (CV) CLASS 5 CU YD	2215.504 FULL DEPTH RECLAMATION SQ YD	2215.507 HAUL FULL DEPTH RECLAMATION (LV) CU YD	2232.504 MILL BITUMINOUS SURFACE (2.0") SQ YD	2232.504 MILL BITUMINOUS SURFACE (3.0") SQ YD	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) GAL	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) TON	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) TON	2451.607 TRENCH BACKFILL (CV) CU YD	REMARKS
86TH AVE W													
200+81 TO 205+30							1306		66	177			
200+81 TO 205+30										35			LEVELING
202+08 TO 202+50	RIGHT											71	
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**1306**	**0**	**66**	**212**	**0**	**71**	

DRAINAGE — C

STATION TO STATION	LOCATION	###### 12" RC PIPE APRON EACH	###### 18" RC PIPE APRON EACH	###### 24" RC PIPE APRON EACH	###### INSTALL PIPE APRON EACH	2501.503 INSTALL PIPE CULVERT LIN FT	2106.603 CONSTRUCT DRAINAGE DITCH LIN FT	2501.603 CLEAN DRAINAGE DITCH LIN FT	###### 4" PVC PIPE DRAIN LIN FT	###### 6" PERF PE PIPE DRAIN LIN FT	2502.602 6" PVC PIPE DRAIN CLEANOUT EACH	2503.503 12" RC PIPE SEWER DES 3006 LIN FT	2503.503 15" RC PIPE SEWER DES 3006 LIN FT	2503.5 18" RC PIPE SEWER DES 3006 LIN FT	2503.5 24" RC PIPE SEWER DES 3006 LIN FT	2503.602 CONNECT TO EXISTING STORM SEWER EACH	2503.602 CONNECT TO EXISTING PIPE DRAIN EACH	2503.602 BULKHEAD EACH	2503.602 12" PIPE PLUG EACH	2503.603 PLUG FILL & ABANDON PIPE SEWER LIN FT	2506.602 CONNECT TO EXISTING STRUCTURE EACH	REMARKS
86TH AVE W																						
202+08 TO 202+50	RIGHT											48				1						
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**48**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	

STRUCTURES & CASTINGS — D

STATION TO STATION	LOCATION	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN F EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL EACH	REMARKS
86TH AVE W								
PROJECT ITEM TOTALS		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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 _____ DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA

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

DULUTH PROJECT NO. 2194

86TH AVE W TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 44

PLOT DATE: Apr 09, 2025 - 5:50pm
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\200 86th Ave W Tabulations.dwg

REMOVALS & SAWCUTS

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING EACH	2104.502 REMOVE CATCH BASIN EACH	2104.502 REMOVE MANHOLE (STORM) EACH	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) LIN FT	2104.503 REMOVE SEWER PIPE (STORM) LIN FT	2104.503 REMOVE CURB & GUTTER LIN FT	2104.504 REMOVE PAVEMENT SQ YD	2104.504 REMOVE CONCRETE PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT SQ YD	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT SQ YD	2104.518 REMOVE CONCRETE WALK SQ FT	A REMARKS
EDWARD STREET																
300+30	ACROSS						28									BOP SAWCUT
300+40 TO 301+32	LEFT				14				14						645	
300+43 TO 301+54	RIGHT				22				22						524	
302+19 TO 303+34	LEFT														60	
302+28 TO 302+53	RIGHT														95	
302+97 TO 303+17	LEFT				38				38						160	NW QUAD ADA
303+04	LEFT	1														CB0090070
303+05	RIGHT	1						8								SPOT REPAIR AT CB0090073
303+19	LEFT	1														CB0090069
303+43 TO 303+74	LEFT	1			33				33						194	NE QUAD ADA, CB0090072
303+73	RIGHT	1														
302+83 TO 303+17	RIGHT				38				38						203	SW QUAD ADA
303+43 TO 303+69	RIGHT				32				32						176	SE QUAD ADA
303+17 TO 303+43	RIGHT & LEFT						44									STREET SAWCUT
304+32 TO 305+72	LEFT				46				46						321	CB0090071
304+33 TO 305+98	RIGHT				62				49					12	393	REMOVE ALLEY APRON
306+13 TO 305+33	LEFT				38				38						132	NW QUAD ADA
306+59 TO 307+27	LEFT				85				85						289	NE QUAD ADA
306+13 TO 306+33	RIGHT				130				130						131	SW QUAD ADA
306+20	LEFT	1														CB0090067
306+20	RIGHT	1														CB0090066
306+33 TO 306+59	LEFT						22									STREET SAWCUT
306+35	LEFT	1														CB0090064
306+59	LEFT	1														CB0090065
306+80 TO 306+92	RIGHT				11				11							PORKCHOP C&G
307+02	CENTER	1														SD0090015
307+57 TO 307+63	LEFT														21	
308+20 TO 309+70	LEFT				33				33						684	NW QUAD ADA
309+57	LEFT	1														CB0090055
309+70	LEFT	1														CB0090119
309+95 TO 310+17	LEFT				88				88						148	NE QUAD ADA
309+27 TO 309+90	RIGHT				51				51							
309+70 TO 309+95	LEFT						22									STREET SAWCUT
309+85	RIGHT	1														CB0090054
310+37 TO 311+27	LEFT														212	
311+45	ACROSS						23									EOP SAWCUT
PROJECT ITEM TOTALS		**13**	**0**	**0**	**721**	**0**	**111**	**8**	**708**	**0**	**0**	**0**	**0**	**12**	**4388**	

BITUMINOUS & AGGREGATE

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) HOUR	2131.506 CALCIUM CHLORIDE SOLUTION GALLON	2211.507 AGGREGATE BASE (CV) CLASS 5 CU YD	2215.504 FULL DEPTH RECLAMATION SQ YD	2215.507 HAUL FULL DEPTH RECLAMATION (LV) CU YD	2232.504 MILL BITUMINOUS SURFACE (2.0") SQ YD	2232.504 MILL BITUMINOUS SURFACE (3.0") SQ YD	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) GAL	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) TON	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) TON	2451.607 TRENCH BACKFILL (CV) CU YD	B REMARKS
EDWARD STREET													
300+30 TO 311+60							3400		170	408			
300+30 TO 311+60										82			LEVELING
303+05	RIGHT										12		SPOT REPAIR AT CB0090073
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**3400**	**0**	**170**	**490**	**12**	**0**	

DRAINAGE

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON EACH	2501.502 18" RC PIPE APRON EACH	2501.502 24" RC PIPE APRON EACH	2501.502 INSTALL PIPE APRON EACH	MIDSLOPE PIPE ANCHOR EACH	2501.503 INSTALL PIPE CULVERT LIN FT	2106.603 CONSTRUCT DRAINAGE DITCH LIN FT	2501.603 CLEAN DRAINAGE DITCH LIN FT	2502.503 4" PVC PIPE DRAIN LIN FT	2502.503 6" PERF PE PIPE DRAIN LIN FT	2502.602 6" PVC PIPE DRAIN CLEANOUT EACH	2503.503 12" RC PIPE SEWER DES 3006 LIN FT	2503.503 15" RC PIPE SEWER DES 3006 LIN FT	2503.503 18" RC PIPE SEWER DES 3006 LIN FT	2503.503 24" RC PIPE SEWER DES 3006 LIN FT	2503.602 CONNECT TO EXISTING STORM SEWER EACH	2503.602 CONNECT TO EXISTING FORCE MAIN EACH	2503.602 BULKHEAD EACH	2503.602 12" PIPE PLUG EACH	2503.603 PLUG FILL & ABANDON PIPE SEWER LIN FT	2506.602 CONNECT TO EXISTING STRUCTURE EACH	C REMARKS
86TH AVE W																							
202+08 TO 202+50	RIGHT												48				1						
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**48**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA®

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

DULUTH PROJECT NO. 2194

EDWARD STREET TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 48

PLOT DATE: Apr 09, 2025 - 5:53pm
FILENAME: K:\a-fl\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\300 Edward St Tabulations.dwg

BITUMINOUS & AGGREGATE

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) HOUR	2131.506 CALCIUM CHLORIDE SOLUTION GALLON	2211.507 AGGREGATE BASE (CV) CLASS 5 CU YD	2215.504 FULL DEPTH RECLAMATION SQ YD	2215.507 HAUL FULL DEPTH RECLAMATION (LV) CU YD	2232.504 MILL BITUMINOUS SURFACE (2.0") SQ YD	2232.504 MILL BITUMINOUS SURFACE (3.0") SQ YD	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) GAL	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) TON	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) TON	2451.607 TRENCH BACKFILL (CV) CU YD	B REMARKS
ANDERSON ROAD													
1902+08 TO 1949+56							17590		880	2120			INCLUDES DRIVEWAYS
1905+93	LEFT											12	PIPE REPAIR AT CB0620019
1907+47	LEFT											31	REPLACE OUTLET FROM CB0620016
1908+84 TO 1908+98	LEFT											40	
1919+07 TO 1919+41	RIGHT											87	ST-APRON 5
1919+41 TO 1919+47	LEFT											12	
1933+13 TO 1933+53	RIGHT											67	
1941+30 TO 1941+45	RIGHT											24	SPOT REPAIR
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**17590**	**0**	**880**	**2120**	**0**	**273**	

DRAINAGE

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON EACH	2501.502 18" RC PIPE APRON EACH	2501.502 24" RC PIPE APRON EACH	2501.502 INSTALL PIPE APRON EACH	2501.503 INSTALL PIPE CULVERT LIN FT	2106.603 CONSTRUCT DRAINAGE DITCH LIN FT	2501.603 CLEAN DRAINAGE DITCH LIN FT	2502.503 4" PVC PIPE DRAIN LIN FT	2502.503 6" PERF PE PIPE DRAIN LIN FT	2502.602 6" PVC PIPE DRAIN CLEANOUT EACH	2503.503 12" RC PIPE SEWER DES 3006 LIN FT	2503.503 15" RC PIPE SEWER DES 3006 LIN FT	2503.503 18" RC PIPE SEWER DES 3006 LIN FT	2503.503 24" RC PIPE SEWER DES 3006 LIN FT	2503.602 CONNECT TO EXISTING STORM SEWER EACH	2503.602 CONNECT TO EXISTING PIPE DRAIN EACH	2503.602 BULKHEAD EACH	2503.602 12" PIPE PLUG EACH	2503.603 PLUG FILL & ABANDON PIPE SEWER LIN FT	2506.602 CONNECT TO EXISTING STRUCTURE EACH	C REMARKS
ANDERSON ROAD																						
1905+93	LEFT											8				1						PIPE REPAIR AT CB0620019
1907+47	LEFT	1										21										REPLACE OUTLET FROM CB0620016
1908+84	LEFT															2						AT ST0630003A
1908+84 TO 1908+98	LEFT											27										
1919+07 TO 1919+41	RIGHT		1				10							59								ST-APRON 5
1919+41 TO 1919+47	LEFT													8								
1919+47	LEFT																				1	ST0630008
1933+13	LEFT																				1	ST0630012
1933+13 TO 1933+53	RIGHT											45										
1941+30 TO 1941+45	RIGHT											16				2						SPOT REPAIR
PROJECT ITEM TOTALS		**1**	**1**	**0**	**0**	**0**	**10**	**0**	**0**	**0**	**0**	**117**	**0**	**67**	**0**	**5**	**0**	**0**	**0**	**0**	**2**	

STRUCTURES & CASTINGS

STATION TO STATION	LOCATION	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN F EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL EACH	D REMARKS
ANDERSON ROAD								
1908+84	LEFT		1					ST0630003A
1908+98	LEFT						1	CB0630003A
1911+37	LEFT		1					ST0620002
1919+41	LEFT						1	CB0630050A
1925+81	LEFT		1					ST0630017
1933+53	RIGHT						1	CB0630008
PROJECT ITEM TOTALS		**0.0**	**3.0**	**0.0**	**0.0**	**0.0**	**3.0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA®

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

DULUTH PROJECT NO. 2194

ANDERSON ROAD TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 58

PLOT DATE: Apr 09, 2025 - 5:58pm
FILENAME: K:\ta-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\1900 Anderson Rd Tabulations.dwg

REMOVALS & SAWCUTS

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING (EACH)	2104.502 REMOVE CATCH BASIN (EACH)	2104.502 REMOVE MANHOLE (STORM) (EACH)	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 REMOVE SEWER PIPE (STORM) (LIN FT)	2104.503 REMOVE CURB & GUTTER (LIN FT)	2104.504 REMOVE PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT (SQ YD)	2104.518 REMOVE CONCRETE WALK (SQ FT)	A REMARKS
CLIFF AVENUE & PLUM STREET																
2400+18	ACROSS						27									BOP SAWCUT
2400+17 TO 2406+41	LEFT				19		693		638		20	371				
2400+17 TO 2404+89	RIGHT						490		490			294				
2404+89 TO 2405+12	RIGHT						32									HIGH ST SAWCUT
2405+12 TO 2406+26	RIGHT						126		126			46				
1406+41 TO 1406+71	LEFT						25									HIGH ST SAWCUT
2406+71 TO 2407+03	LEFT	1					42		42							CB0540055
2406+73 TO 2407+87	RIGHT				38		114		114		39					DRIVEWAYS: 1414 & 1420
2406+88	RIGHT	1														CB0540056
2408+35 TO 2410+76	LEFT						209		137			73				DRIVEWAYS: 1427, 1431, 1437
2408+78 TO 2410+88	RIGHT						172		117			59				DRIVEWAYS: 1426, 1434, 1440
2409+91	CENTER			1												ST0540033
2410+04	LEFT		1					8								CB0540053
2410+05	RIGHT		1					8								CB0540054
2411+25 TO 2413+48	RIGHT						200		163			37				DRIVEWAYS: 1446 & 1502
2411+71 TO 2412+79	LEFT						106		66			37				DRIVEWAYS: 1501 & 1507
2414+67 TO 2414+92	RIGHT						44		25			17				DRIVEWAY: 1524
2415+36 TO 2416+79	LEFT				27		127		110		24	16				DRIVEWAYS: 1529, 1535, 1541
2416+22 TO 2419+28	RIGHT						215		197			18				DRIVEWAY: 1523
2417+05 TO 2420+70	LEFT				14		199		183		16	15				DRIVEWAYS: 1545, 323, 319
2420+05 TO 2420+28	RIGHT						23									BOULEVARD PL SAWCUT
2420+28 TO 2423+40	RIGHT	1			15		232		232		13					DRIVEWAY, CB0840087
2421+64 TO 2423+40	LEFT	1			20		189		174		18	15				DRIVEWAYS: 311, CB0540088
2423+27	LEFT	1														CB0540019
2423+27	RIGHT	1														CB0540020
2423+40	ACROSS						25									EOP SAWCUT
PROJECT ITEM TOTALS		**6**	**2**	**1**	**133**	**0**	**3290**	**16**	**2814**	**0**	**130**	**998**	**0**	**0**	**0**	

BITUMINOUS & AGGREGATE

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) (HOUR)	2131.506 CALCIUM CHLORIDE SOLUTION (GALLON)	2211.507 AGGREGATE BASE (CV) CLASS 5 (CU YD)	2215.504 FULL DEPTH RECLAMATION (SQ YD)	2215.507 HAUL FULL DEPTH RECLAMATION (LV) (CU YD)	2232.504 MILL BITUMINOUS SURFACE (2.0") (SQ YD)	2232.504 MILL BITUMINOUS SURFACE (3.0") (SQ YD)	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) (GAL)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) (TON)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) (TON)	2451.607 TRENCH BACKFILL (CV) (CU YD)	B REMARKS
CLIFF AVENUE & PLUM STREET													
2400+17 TO 2423+40							6470		324	897			
2410+05	LEFT											12	
2410+05	RIGHT											12	
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**6470**	**0**	**324**	**897**	**0**	**24**	

DRAINAGE

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON (EACH)	2501.502 18" RC PIPE APRON (EACH)	2501.502 24" RC PIPE APRON (EACH)	2501.502 INSTALL PIPE APRON (EACH)	MIDSLOPE PIPE ANCHOR (EACH)	2501.503 INSTALL PIPE CULVERT (LIN FT)	2106.603 CONSTRUCT DRAINAGE DITCH (LIN FT)	2501.603 CLEAN DRAINAGE DITCH (LIN FT)	2502.503 4" PVC PIPE DRAIN (LIN FT)	2502.503 6" PERF PE PIPE DRAIN (LIN FT)	2502.602 6" PVC PIPE DRAIN CLEANOUT (EACH)	2503.503 12" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 15" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 18" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 24" RC PIPE SEWER DES 3006 (LIN FT)	2503.602 CONNECT TO EXISTING STORM SEWER (EACH)	2503.602 CONNECT TO EXISTING PIPE DRAIN (EACH)	2503.602 BULKHEAD (EACH)	2503.602 12" PIPE PLUG (EACH)	2503.603 PLUG FILL & ABANDON PIPE SEWER (LIN FT)	2506.602 CONNECT TO EXISTING STRUCTURE (EACH)	C REMARKS
CLIFF AVE																							
2410+05	LEFT												8				1						
2410+05	RIGHT												8				1						
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**16**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA®

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

DULUTH PROJECT NO. 2194

CLIFF AVENUE & PLUM STREET TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 68

PLOT DATE: Apr 09, 2025 - 6:34pm
FILENAME: K:\ia-fn\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\2400 Cliff Ave Tabulations.dwg

REMOVALS & SAWCUTS

A

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING (EACH)	2104.502 REMOVE CATCH BASIN (EACH)	2104.502 REMOVE MANHOLE (STORM) (EACH)	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 REMOVE SEWER PIPE (STORM) (LIN FT)	2104.503 REMOVE CURB & GUTTER (LIN FT)	2104.504 REMOVE PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT (SQ YD)	2104.518 REMOVE CONCRETE WALK (SQ FT)	REMARKS
HIGH STREET & TRIGGS AVE																
2500+49 TO 2500+76	RIGHT						45		27			19				CURB & DRIVEWAY
2501+38 TO 2501+80	LEFT						60		45			15				CURB & DRIVEWAY
2501+39 TO 2501+99	RIGHT						69		55			15				CURB & DRIVEWAY
2501+97 TO 2502+24	LEFT				16		28		28					16		CURB & DRIVEWAY
2502+51 TO 2502+78	RIGHT						26		26							CURB
2502+52 TO 2502+77	LEFT						26		26							CURB
2502+63	RIGHT	1														CB0540057
2502+63	LEFT	1														CB0540058
2503+36 TO 2503+89	LEFT						128		103			143				BAYLIS INTERSECTION
2503+76 TO 2505+04	RIGHT				25		145		128			17		25		CURB & DRIVEWAY
2504+07 TO 2505+47	LEFT						195		179			87				BAYLIS INTERSECTION
2504+43	RIGHT		1													CB0540060
2505+63 TO 2505+92	RIGHT						48		29			21				CURB & DRIVEWAY
2506+03 TO 2506+31	RIGHT						49		30			21				CURB & DRIVEWAY
2506+57 TO 2506+84	LEFT						49		28			21				CURB & DRIVEWAY
2507+09 TO 2507+74	RIGHT				26		69		69					22		CURB & DRIVEWAY
2507+14 TO 2507+57	LEFT				21		41		41					21		CURB & DRIVEWAY
2508+24 TO 2509+24	RIGHT						137		93			55				CURB & DRIVEWAY
2509+71 TO 2510+80	LEFT				22		112		112					20		CURB & DRIVEWAY
2509+91 TO 2510+15	RIGHT						23		23							CURB
2510+53 TO 2511+07	RIGHT						73		54			20				CURB & DRIVEWAY
2511+35 TO 2511+74	RIGHT						58		39			20				CURB & DRIVEWAY
2512+25 TO 2512+56	RIGHT						43		31			13				CURB & DRIVEWAY
2512+69 TO 2512+86	LEFT				16		28		28					16		CURB & DRIVEWAY
2512+83 TO 2513+34	RIGHT						67		51			17				CURB & DRIVEWAY
2513+90 TO 2514+24	RIGHT						51		35			18				CURB & DRIVEWAY
2514+76 TO 2515+15	LEFT						70		18			148				TRIGGS -TURNAROUND
PROJECT ITEM TOTALS		**2**	**1**	**0**	**126**	**0**	**1640**	**0**	**1298**	**0**	**0**	**650**	**0**	**120**	**0**	

BITUMINOUS & AGGREGATE

B

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) (HOUR)	2131.506 CALCIUM CHLORIDE SOLUTION (GALLON)	2211.507 AGGREGATE BASE (CV) CLASS 5 (CU YD)	2215.504 FULL DEPTH RECLAMATION (SQ YD)	2215.507 HAUL FULL DEPTH RECLAMATION (LV) (CU YD)	2232.504 MILL BITUMINOUS SURFACE (2.0") (SQ YD)	2232.504 MILL BITUMINOUS SURFACE (3.0") (SQ YD)	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) (GAL)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) (TON)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) (TON)	2451.607 TRENCH BACKFILL(CV) (CY YD)	REMARKS
HIGH STREET & TRIGGS AVE													
2500+29 TO 2515+05							4511		226	542			
2515+05 TO 2515+48	RIGHT AND LEFT			51					9	22			TRIGGS TURNAROUND
PROJECT ITEM TOTALS		**0**	**0**	**51**	**0**	**0**	**4511**	**0**	**235**	**564**	**0**	**0**	

DRAINAGE

C

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON (EACH)	2501.502 18" RC PIPE APRON (EACH)	2501.502 24" RC PIPE APRON (EACH)	2501.502 INSTALL PIPE APRON (EACH)	2501.503 INSTALL PIPE CULVERT (LIN FT)	2106.603 CONSTRUCT DRAINAGE DITCH (LIN FT)	2501.603 CLEAN DRAINAGE DITCH (LIN FT)	2502.503 4" PVC PIPE DRAIN (LIN FT)	2502.503 6" PERF PE PIPE DRAIN (LIN FT)	2502.602 6" PVC PIPE DRAIN CLEANOUT (EACH)	2503.503 12" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 15" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 18" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 24" RC PIPE SEWER DES 3006 (LIN FT)	2503.602 CONNECT TO EXISTING STORM SEWER (EACH)	2503.602 CONNECT TO EXISTING PIPE DRAIN (EACH)	2503.602 BULKHEAD (EACH)	2503.602 12" PIPE PLUG (EACH)	2503.603 PLUG FILL & ABANDON PIPE SEWER (LIN FT)	2506.602 CONNECT TO EXISTING STRUCTURE (EACH)	REMARKS
HIGH STREET & TRIGGS AVE																						
(NONE)																						
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA®

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

DULUTH PROJECT NO. 2194

HIGH STREET & TRIGGS AVENUE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 78

PLOT DATE: Apr 09, 2025 - 6:40pm
FILENAME: K:\1a-fDuluth_City\22008000\04_Production\01_CAD\02_Sheets\2500 High St Tabulations.dwg

REMOVALS & SAWCUTS — A

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING (EACH)	2104.502 REMOVE CATCH BASIN (EACH)	2104.502 REMOVE MANHOLE (STORM) (EACH)	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 REMOVE SEWER PIPE (STORM) (LIN FT)	2104.503 REMOVE CURB & GUTTER (LIN FT)	2104.504 REMOVE PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT (SQ YD)	2104.518 REMOVE CONCRETE WALK (SQ FT)	REMARKS
BAYLIS STREET																
2600+12	ACROSS						25									BOP SAWCUT
2600+14 TO 2600+40	LEFT						32		26			22				
2600+15	RIGHT	1														CB0540062
2600+18	LEFT	1														CB0540061
2600+27	CENTER	1														SA0540003
2600+95 TO 2601+50	LEFT						76		55			26				DRIVEWAY: 1407
2601+04 TO 2602+25	RIGHT						121		121			59				DRIVEWAY: 1408, 1414
2602+26	ACROSS						28									EOP SAWCUT
PROJECT ITEM TOTALS		**3**	**0**	**0**	**0**	**0**	**282**	**0**	**202**	**0**	**0**	**107**	**0**	**0**	**0**	

BITUMINOUS & AGGREGATE

2

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) (HOUR)	2131.506 CALCIUM CHLORIDE SOLUTION (GALLON)	2211.507 AGGREGATE BASE (CV) CLASS 5 (CU YD)	2215.504 FULL DEPTH RECLAMATION (SQ YD)	2215.507 HAUL FULL DEPTH RECLAMATION (LV) (CU YD)	2232.504 MILL BITUMINOUS SURFACE (2.0") (SQ YD)	2232.504 MILL BITUMINOUS SURFACE (3.0") (SQ YD)	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) (GAL)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) (TON)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) (TON)	2451.607 TRENCH BACKFILL (CV) (CU YD)	REMARKS
BAYLIS STREET													
2600+08 TO 2602+15							547		28	66			
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**547**	**0**	**28**	**66**	**0**	**0**	

DRAINAGE — C

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON (EACH)	2501.502 18" RC PIPE APRON (EACH)	2501.502 24" RC PIPE APRON (EACH)	2501.502 INSTALL PIPE APRON (EACH)	MIDSLOPE PIPE ANCHOR (EACH)	2501.503 INSTALL PIPE CULVERT (LIN FT)	2106.603 CONSTRUCT DRAINAGE DITCH (LIN FT)	2501.603 CLEAN DRAINAGE DITCH (LIN FT)	2502.503 4" PVC PIPE DRAIN (LIN FT)	2502.503 6" PERF PE PIPE DRAIN (LIN FT)	2502.602 6" PVC PIPE DRAIN CLEANOUT (EACH)	2503.503 12" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 15" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 18" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 24" RC PIPE SEWER DES 3006 (LIN FT)	2503.602 CONNECT TO EXISTING STORM SEWER (EACH)	2503.602 CONNECT TO EXISTING PIPE DRAIN (EACH)	2503.602 BULKHEAD (EACH)	2503.602 12" PIPE PLUG (EACH)	2503.603 PLUG FILL & ABANDON PIPE SEWER (LIN FT)	2506.602 CONNECT TO EXISTING STRUCTURE (EACH)	REMARKS
BAYLIS STREET																							
(NONE)																							
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

STRUCTURES & CASTINGS — D

STATION TO STATION	LOCATION	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN F (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL (EACH)	REMARKS
BAYLIS STREET								
PROJECT ITEM TOTALS		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	

CONCRETE — E

STATION TO STATION	LOCATION	2301.502 DOWEL BAR (EACH)	2301.602 DRILL & GROUT DOWEL BAR (EPOXY COATED) (EACH)	2301.602 DRILL & GROUT REINF BAR (EPOXY COATED) (EACH)	2411.607 CONCRETE STEPS (CU YD)	2521.518 4" CONCRETE WALK (SQ FT)	2521.518 6" CONCRETE WALK (SQ FT)	2531.503 CONCRETE CURB & GUTTER DESIGN B624 (LIN FT)	2531.503 CONCRETE CURB & GUTTER DESIGN S424 (LIN FT)	2531.503 CONCRETE CURB DESIGN V6 (LIN FT)	2531.504 8" CONCRETE DRIVEWAY PAVEMENT (SQ YD)	2531.618 TRUNCATED DOMES (SQ FT)	REMARKS
BAYLIS STREET													
2600+14 TO 2600+40	LEFT								26		22		
2600+95 TO 2601+50	LEFT								55		26		DRIVEWAY: 1407
2601+04 TO 2602+25	RIGHT								122		59		DRIVEWAY: 1408, 1414
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**203**	**0**	**107**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA®

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

DULUTH PROJECT NO. 2194

BAYLIS STREET TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 89

PLOT DATE: Apr 09, 2025 - 6:41pm
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\2600 Baylis St Tabulations.dwg

REMOVALS & SAWCUTS

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING (EACH)	2104.502 REMOVE CATCH BASIN (EACH)	2104.502 REMOVE MANHOLE (STORM) (EACH)	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 REMOVE SEWER PIPE (STORM) (LIN FT)	2104.503 REMOVE CURB & GUTTER (LIN FT)	2104.504 REMOVE PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT (SQ YD)	2104.518 REMOVE CONCRETE WALK (SQ FT)	A REMARKS
HIGH STREET 2																
2701+00 TO 2701+24	LEFT						20						21			DRIVEWAY: 1402
2701+75 TO 2701+98	LEFT						19						19			DRIVEWAY: 1403
2702+89	LEFT		1													CB05400038
2702+89 TO 2703+22	LEFT							33								PIPE
2703+10	LEFT		1													CB0540037
2703+10 TO 2703+22	LEFT							25								PIPE
2703+22 TO2703+36	LEFT							26								PIPE
2703+36	LEFT		1													CB0540036
2703+10	LEFT						19		19							CURB
2703+14 TO 2703+34	LEFT						22									BOULEVARD PL SAWCUT
2703+23 TO 2703+45	RIGHT						22									BOULEVARD PL SAWCUT
2703+36	LEFT						75		48				24			DRIVEWAY: 1404
2703+60	ACROSS						23									EOP SAWCUT
PROJECT ITEM TOTALS		**0**	**3**	**0**	**0**	**0**	**200**	**84**	**67**	**0**	**0**	**0**	**64**	**0**	**0**	

BITUMINOUS & AGGREGATE

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) (HOUR)	2131.506 CALCIUM CHLORIDE SOLUTION (GALLON)	2211.507 AGGREGATE BASE (CV) CLASS 5 (CU YD)	2215.504 FULL DEPTH RECLAMATION (SQ YD)	2215.507 HAUL FULL DEPTH RECLAMATION (LV) (CU YD)	2232.504 MILL BITUMINOUS SURFACE (2.0") (SQ YD)	2232.504 MILL BITUMINOUS SURFACE (3.0") (SQ YD)	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) (GAL)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) (TON)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) (TON)	2451.607 TRENCH BACKFILL (CV) (CU YD)	B REMARKS
HIGH STREET 2													
2700+28 TO 2703+49								954	48	172			
2702+79 TO 2703+11	LEFT											49	CB0540038 TO ST0540018
2702+99 TO 2703+11	LEFT											37	CB0540037 TO ST0540018
2703+11 TO 2703+23	LEFT											39	CB0540036 TO ST0540018
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**954**	**48**	**172**	**0**	**124**	

DRAINAGE

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON (EACH)	2501.502 18" RC PIPE APRON (EACH)	2501.502 24" RC PIPE APRON (EACH)	2501.502 INSTALL PIPE APRON (EACH)	MIDSLOPE PIPE ANCHOR (EACH)	2501.503 INSTALL PIPE CULVERT (LIN FT)	2106.603 CONSTRUCT DRAINAGE DITCH (LIN FT)	2501.603 CLEAN DRAINAGE DITCH (LIN FT)	2502.503 4" PVC PIPE DRAIN (LIN FT)	2502.503 6" PERF PE PIPE DRAIN (LIN FT)	2502.602 6" PVC PIPE DRAIN CLEANOUT (EACH)	2503.503 12" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 15" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 18" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 24" RC PIPE SEWER DES 3006 (LIN FT)	2503.602 CONNECT TO EXISTING STORM SEWER (EACH)	2503.602 CONNECT TO EXISTING FORCE MAIN (EACH)	BULKHEAD (EACH)	12" PIPE PLUG (EACH)	2503.603 PLUG FILL & ABANDON PIPE SEWER (LIN FT)	2506.602 CONNECT TO EXISTING STRUCTURE (EACH)	C REMARKS
HIGH STREET 2																							
2702+79 TO 2703+11	LEFT												33										CB0540038 TO ST0540018
2702+99 TO 2703+11	LEFT												25										CB0540037 TO ST0540018
2703+11	LEFT																1						ST0540018
2703+11 TO 2703+23	LEFT												26										CB0540036 TO ST0540018
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**84**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	

STRUCTURES & CASTINGS

STATION TO STATION	LOCATION	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN F (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL (EACH)	D REMARKS
HIGH STREET 2								
2702+79	LEFT						1.0	CB0540038
2702+99	LEFT						1.0	CB0540037
2703+23	LEFT						1.0	CB0540036
PROJECT ITEM TOTALS		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**3.0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

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SIGNATURE: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

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

DULUTH PROJECT NO. 2194

HIGH STREET 2 TABULATONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 93

PLOT DATE: Apr 10, 2025 - 9:55am
FILENAME: K:\a-f\Duluth_City\2200800\004_Production\01_CAD\02_Sheets\2700 High St 2 Tabulations.dwg

BITUMINOUS & AGGREGATE

		2123.510	2131.506	2211.507	2215.504	2215.507	2232.504	2232.504	2357.506	2360.509	2360.509	2451.607	B
STATION TO STATION	LOCATION	STREET SWEEPER (WITH PICKUP BROOM)	CALCIUM CHLORIDE SOLUTION	AGGREGATE BASE (CV) CLASS 5	FULL DEPTH RECLAMATION	HAUL FULL DEPTH RECLAMATION (LV)	MILL BITUMINOUS SURFACE (2.0")	MILL BITUMINOUS SURFACE (3.0")	BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY)	TYPE SP 9.5 WEARING COURSE MIX (3,B)	TYPE SP 9.5 WEARING COURSE MIX (3,C)	TRENCH BACKFILL (CV)	REMARKS
		HOUR	GALLON	CU YD	SQ YD	CU YD	SQ YD	SQ YD	GAL	TON	TON	CU YD	
LONDON ROAD													
							14312		716	2148	0		INCLUDES DRIVEWAYS
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**14312**	**0**	**716**	**2148**	**0**	**0**	

DRAINAGE

		2501.502	2501.502	2501.502	2501.502		2501.503	2106.603	2501.603	2502.503	2502.503	2502.602	2503.503	2503.503	2503.503	2503.503	2503.602	2503.602	2503.602	2503.602	2503.603	2506.602	C
STATION TO STATION	LOCATION	12" RC PIPE APRON	18" RC PIPE APRON	24" RC PIPE APRON	INSTALL PIPE APRON	MIDSLOPE PIPE ANCHOR	INSTALL PIPE CULVERT	CONSTRUCT DRAINAGE DITCH	CLEAN DRAINAGE DITCH	4" PVC PIPE DRAIN	6" PERF PE PIPE DRAIN	6" PVC PIPE DRAIN CLEANOUT	12" RC PIPE SEWER DES 3006	15" RC PIPE SEWER DES 3006	18" RC PIPE SEWER DES 3006	24" RC PIPE SEWER DES 3006	CONNECT TO EXISTING STORM SEWER	CONNECT TO EXISTING PIPE DRAIN	BULKHEAD	12" PIPE PLUG	PLUG FILL & ABANDON PIPE SEWER	CONNECT TO EXISTING STRUCTURE	REMARKS
		EACH	EACH	EACH	EACH	EACH	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EACH	LIN FT	LIN FT	LIN FT	LIN FT	EACH	EACH	EACH	EACH	LIN FT	EACH	
LONDON RD																							
(NONE)																							
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

ENCASEMENT & REPAIR

		2504.602	2504.602	2504.602	2504.602	2504.602	2506.502	2506.502	2506.502	2506.502	2506.503	2506.602	2540.602	G
STATION TO STATION	LOCATION	ADJUST CURB BOX	ADJUST CURB STOP	ADJUST VALVE BOX	ADJUST VALVE BOX (SPECIAL)	CONCRETE ENCASED VALVE BOX COLLAR	CASTING ASSEMBLY	ADJUST FRAME & RING CASTING	ADJUST FRAME & RING CASTING (SPECIAL)	REPAIR DRAINAGE STRUCTURE	RECONSTRUCT DRAINAGE STRUCTURE	CONCRETE ENCASED CASTING COLLAR	CONSTRUCT SURVEY MONUMENT	REMARKS
		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LIN FT	EACH	EACH	
LONDON ROAD														
2801+97	LEFT						1							CB0430283
2805+20	RIGHT			1										
2806+09	RIGHT						1							CB0430286
2809+70	RIGHT			1										
2810+20	RIGHT			1										
2810+32	LEFT						1							CB0430291
2810+39	RIGHT							1						ST0430212
2810+43	LEFT										2.0			ST0430211
2810+59	LEFT						1							CB0430290
2810+76	RIGHT						1				2.0			CB0430288
2813+55	RIGHT							1						WATER MANHOLE
2813+60	RIGHT							1						ELECTRIC MANHOLE
2815+22	LEFT										2.0			SA0430128
2815+38	RIGHT			1										
2815+75	RIGHT			1										
2815+75	RIGHT							1						ELECTRIC MANHOLE
2815+81	RIGHT			1				1						WATER MANHOLE
2817+76	RIGHT			1										
2817+85	RIGHT			1										GAS VALVE
2819+64	LEFT						1							CB0430192
2819+76	LEFT						1				3.0			SA0430129
2819+90	LEFT						1							CB0430191
2820+85	RIGHT			1										
2822+05	RIGHT			1										
2822+10	RIGHT							1						ST0430057
2822+10	CENTER						1				3.0			ST0430056
2822+34	LEFT							1						SA0430131
2823+40	RIGHT							1						ST0430055
2823+75	RIGHT			1										
2824+13	RIGHT						1							CB0430131
2824+44	RIGHT						1							CB0430130
PROJECT ITEM TOTALS		**0**	**0**	**11**	**0**	**0**	**11**	**8**	**0**	**0**	**12.0**	**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.50 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

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SIGNATURE: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA

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

DULUTH PROJECT NO. 2194

LONDON ROAD TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 100

PLOT DATE: Apr 10, 2025 - 9:56am
FILENAME: K:\a-f\Duluth_City\2200800\04_Production\01_CAD\02_Sheets\2800 London Rd Tabulations.dwg

REMOVALS & SAWCUTS

A

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING EACH	2104.502 REMOVE CATCH BASIN EACH	2104.502 REMOVE MANHOLE (STORM) EACH	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) LIN FT	2104.503 REMOVE SEWER PIPE (STORM) LIN FT	2104.503 REMOVE CURB & GUTTER LIN FT	2104.504 REMOVE PAVEMENT SQ YD	2104.504 REMOVE CONCRETE PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT SQ YD	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT SQ YD	2104.518 REMOVE CONCRETE WALK SQ FT	REMARKS
57TH AVENUE																
START TO 502+54.47					332				141		801	60			223	
500+84	CENTER							65								
501+04	CENTER			1												
501+04 TO 501+24	LEFT							28								
501+04 TO 501+24	RIGHT							28								
501+04 TO 502+82	CENTER							178								
501+24	RIGHT		1													
501+24	LEFT		1													
502.54.47 TO 503+04.47					77		4.6714		35		154	2			109	
502+82	CENTER			1												
502+82 TO 503+00	RIGHT							25								
502+82 TO 503+84	CENTER							102								
503+00	RIGHT		1													
503+84	CENTER			1												
503+04.47 TO END					218						218					
PROJECT ITEM TOTALS		**0**	**3**	**3**	**627**	**0**	**5**	**426**	**176**	**0**	**1173**	**62**	**0**	**0**	**332**	

BITUMINOUS & AGGREGATE

2

B

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) HOUR	2131.506 CALCIUM CHLORIDE SOLUTION GALLON	2211.507 AGGREGATE BASE (CV) CLASS 5 CU YD	2215.504 FULL DEPTH RECLAMATION SQ YD	2215.507 HAUL FULL DEPTH RECLAMATION (LV) CU YD	2232.504 MILL BITUMINOUS SURFACE (2.0") SQ YD	2232.504 MILL BITUMINOUS SURFACE (3.0") SQ YD	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) GAL	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) TON	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) TON	2451.607 TRENCH BACKFILL (CV) CU YD	REMARKS
57TH AVENUE													
									4	14			
500+28 TO 500+84	RIGHT											121	
500+84	LEFT											27	
500+84	RIGHT											50	
500+84 TO 501+24	LEFT											71	
500+84 TO 501+24	RIGHT											71	
500+84 TO 502+61	CENTER											313	
502+61 TO 502+63	RIGHT											53	
502+61 TO 502+92	CENTER											55	
502+92	LEFT											34	
502+92	RIGHT											27	
502+92 TO 503+84	CENTER											164	
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**14**	**0**	**985**	

DRAINAGE

C

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON EACH	2501.502 18" RC PIPE APRON EACH	2501.502 24" RC PIPE APRON EACH	2501.502 INSTALL PIPE APRON EACH	2501.503 INSTALL PIPE CULVERT LIN FT	2106.603 CONSTRUCT DRAINAGE DITCH LIN FT	2501.603 CLEAN DRAINAGE DITCH LIN FT	2502.503 4" PVC PIPE DRAIN LIN FT	2502.503 6" PERF PE PIPE DRAIN LIN FT	2502.602 6" PVC PIPE DRAIN CLEANOUT EACH	2503.503 12" RC PIPE SEWER DES 3006 LIN FT	2503.503 15" RC PIPE SEWER DES 3006 LIN FT	2503.503 18" RC PIPE SEWER DES 3006 LIN FT	2503.503 24" RC PIPE SEWER DES 3006 LIN FT	2503.602 CONNECT TO EXISTING STORM SEWER EACH	2503.602 CONNECT TO EXISTING PIPE DRAIN EACH	2503.6302 BULKHEAD EACH	2503.602 12" PIPE PLUG EACH	2503.603 PLUG FILL & ABANDON PIPE SEWER LIN FT	2506.602 CONNECT TO EXISTING STRUCTURE EACH	REMARKS
57TH AVE																						
500+28	RIGHT			1																		
500+28 TO 500+84	RIGHT														68							
500+84	CENTER															3				65		
500+84	LEFT											18										
500+84	RIGHT														28							
500+84 TO 501+24	LEFT											40										
500+84 TO 501+24	RIGHT											40										
500+84 TO 502+61	CENTER													176								
502+61 TO 502+63	RIGHT											30										
502+61 TO 502+92	CENTER													31					1			ST0220144A WQS - TEMP PLUG
502+92	LEFT											19										
502+92	RIGHT											15										
502+92 TO 503+84	CENTER													92		1		1		50		
PROJECT ITEM TOTALS		**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**162**	**0**	**299**	**96**	**4**	**0**	**1**	**1**	**115**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: _____ DATE: 3/27/25
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TKDA

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

DULUTH PROJECT NO. 2194

57TH AVENUE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 119

PLOT DATE: Apr 10, 2025 - 9:57am
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\500 57th Ave Tabulations.dwg

REMOVALS & SAWCUTS

		2104.502	2104.502	2104.502	2104.503	2104.503	2104.503	2104.503	2104.503	2104.504	2104.504	2104.504	2104.504	2104.504	2104.518	A
STATION TO STATION	LOCATION	REMOVE CASTING	REMOVE CATCH BASIN	REMOVE MANHOLE (STORM)	SAWING CONCRETE PAVEMENT (FULL DEPTH)	SAWING BITUMINOUS PAVEMENT	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	REMOVE SEWER PIPE (STORM)	REMOVE CURB & GUTTER	REMOVE PAVEMENT	REMOVE CONCRETE PAVEMENT	REMOVE BITUMINOUS PAVEMENT	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	REMOVE CONCRETE DRIVEWAY PAVEMENT	REMOVE CONCRETE WALK	REMARKS
		EACH	EACH	EACH	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ FT	
1ST STREET ALLEY																
1800+15	ACROSS				20											BOP SAWCUT
1804+51 TO 1809+02	ACROSS				50					774						FULL RECONST
1809+02	ACROSS				16											SAWCUT: N 24TH AVE W
1809+64	ACROSS				17											SAWCUT: N 24TH AVE W
1813+68 TO 1813+82	ACROSS				44				27	29						SAWCUT: N 23RD AVE W
1814+31	ACROSS				17											SAWCUT: N 23RD AVE W
1817+68	ACROSS				19											EOP SAWCUT
PROJECT ITEM TOTALS		**0**	**0**	**0**	**183**	**0**	**0**	**0**	**27**	**803**	**0**	**0**	**0**	**0**	**0**	

BITUMINOUS & AGGREGATE

		2123.510	2131.506	2211.507	2215.504	2215.507	2232.504	2232.504	2357.506	2360.509	2360.509	2451.607	B
STATION TO STATION	LOCATION	STREET SWEEPER (WITH PICKUP BROOM)	CALCIUM CHLORIDE SOLUTION	AGGREGATE BASE (CV) CLASS 5	FULL DEPTH RECLAMATION	HAUL FULL DEPTH RECLAMATION (LV)	MILL BITUMINOUS SURFACE (2.0")	MILL BITUMINOUS SURFACE (3.0")	BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY)	TYPE SP 9.5 WEARING COURSE MIX (3,B)	TYPE SP 9.5 WEARING COURSE MIX (3,C)	TRENCH BACKFILL (CV)	REMARKS
		HOUR	GALLON	CU YD	SQ YD	CU YD	SQ YD	SQ YD	GAL	TON	TON	CU YD	
1ST STREET ALLEY													
1800+15 TO 1804+51							702		36	85			
1804+51 TO 1809+02				229					69	165			
1804+51 TO 1809+02										33			LEVELING
1804+90 TO 1805+96	RIGHT											160	ST0310082A TO ST-1
1805+96 TO 1806+16	RIGHT											24	ST-1 TO ST-2
1806+16 TO 1806+36	RIGHT											24	ST-2 TO ST-3
1806+36 TO 1807+06	RIGHT											83	ST-3 TO ST-4
1809+64 TO 1813+68							720		36	87			
1814+31 TO 1817+68							608		31	73			
PROJECT ITEM TOTALS		**0**	**0**	**229**	**0**	**0**	**2030**	**0**	**172**	**443**	**0**	**290**	

DRAINAGE

		2501.502	2501.502	2501.502	2501.502	2501.503	2106.603	2501.603	2502.503	2502.503	2502.602	2503.503	2503.503	2503.503	2503.503	2503.602	2503.602	2503.602	2503.602	2503.603	2506.602	C
STATION TO STATION	LOCATION	12" RC PIPE APRON	18" RC PIPE APRON	24" RC PIPE APRON	INSTALL PIPE APRON	INSTALL PIPE CULVERT	CONSTRUCT DRAINAGE DITCH	CLEAN DRAINAGE DITCH	4" PVC PIPE DRAIN	6" PERF PE PIPE DRAIN	6" PVC PIPE DRAIN CLEANOUT	12" RC PIPE SEWER DES 3006	15" RC PIPE SEWER DES 3006	18" RC PIPE SEWER DES 3006	24" RC PIPE SEWER DES 3006	CONNECT TO EXISTING STORM SEWER	CONNECT TO EXISTING PIPE DRAIN	BULKHEAD	12" PIPE PLUG	PLUG FILL & ABANDON PIPE SEWER	CONNECT TO EXISTING STRUCTURE	REMARKS
		EACH	EACH	EACH	EACH	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EACH	LIN FT	LIN FT	LIN FT	LIN FT	EACH	EACH	EACH	EACH	LIN FT	EACH	
1ST STREET ALLEY																						
1804+60	RIGHT															2						ST0310082A
1804+90 TO 1805+96	RIGHT											135										ST0310082A TO ST-1
1805+96 TO 1806+16	RIGHT											20										ST-1 TO ST-2
1806+16 TO 1806+36	RIGHT											20										ST-2 TO ST-3
1806+36 TO 1807+06	RIGHT											70										ST-3 TO ST-4
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**245**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	

STRUCTURES & CASTINGS

		2506.502	2506.502	2506.502	2506.502	2506.502	2506.502	D
STATION TO STATION	LOCATION	CONSTRUCT DRAINAGE STRUCTURE DESIGN F	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020	CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020	CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL	REMARKS
		EACH	EACH	EACH	EACH	EACH	EACH	
1ST STREET ALLEY								
1804+59	RIGHT	1						ST0310082A. TYPE A CONE.
1805+89	RIGHT		1					ST-1
1805+94	RIGHT						1	ST-2
1806+14	RIGHT						1	ST-3
1806+34	RIGHT						1	ST-4
1807+20	RIGHT		1					ST-5
1807+25	RIGHT	1						ST-6
PROJECT ITEM TOTALS		**2**	**2**	**0**	**0**	**0**	**3**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA

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

DULUTH PROJECT NO. 2194

1ST STREET ALLEY TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 127

PLOT DATE: Apr 10, 2025 - 9:57am
FILENAME: K:\1a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\1800 1st St Alley Tabulations.dwg

REMOVALS & SAWCUTS

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING EACH	2104.502 REMOVE CATCH BASIN EACH	2104.502 REMOVE MANHOLE (STORM) EACH	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) LIN FT	2104.503 REMOVE SEWER PIPE (STORM) LIN FT	2104.503 REMOVE CURB & GUTTER LIN FT	2104.504 REMOVE PAVEMENT SQ YD	2104.504 REMOVE CONCRETE PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT SQ YD	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT SQ YD	2104.518 REMOVE CONCRETE WALK SQ FT	A REMARKS
CLYDE AVENUE																
400+48	ACROSS						31									BOP SAWCUT
400+69 TO 401+32	LEFT														289	
401+32 TO 401+57	LEFT						25									SAWCUT DRIVEWAY: 445
402+17	LEFT		1													CB0130035
402+17 TO 402+33	LEFT							26								
402+33	LEFT		1													
402+33 TO 402+73	LEFT							31								
402+33 TO 403+03	ACROSS							76								
402+59	LEFT		1													CB0130036
402+64	LEFT															CB0130037
402+20 TO 402+45	LEFT						23									SAWCUT: S 92ND AVE
409+08 TO 409+09	ACROSS			1				66								
416+79 TO 417+05	LEFT	1					26									SAWCUT: S 88TH AVE W, CB0130010
417+03 TO 417+11	LEFT								20							
417+07	LEFT	1														CB0130011
417+28	ACROSS						22									EOP SAWCUT
PROJECT ITEM TOTALS		**2**	**3**	**1**	**0**	**0**	**127**	**199**	**20**	**0**	**0**	**0**	**0**	**0**	**289**	

BITUMINOUS & AGGREGATE

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) HOUR	2131.506 CALCIUM CHLORIDE SOLUTION GALLON	2211.507 AGGREGATE BASE (CV) CLASS 5 CU YD	2215.504 FULL DEPTH RECLAMATION SQ YD	2215.507 HAUL FULL DEPTH RECLAMATION (LV) CU YD	2232.504 MILL BITUMINOUS SURFACE (2.0") SQ YD	2232.504 MILL BITUMINOUS SURFACE (3.0") SQ YD	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) GAL	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) TON	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) TON	2451.607 TRENCH BACKFILL (CV) CU YD	B REMARKS
CLYDE AVENUE													
400+48 TO 417+28	ROADWAY								225	539			
402+17 TO 402+59	LEFT											27	
402+59 TO 402+64	LEFT											5	
402+59 TO 403+03	ACROSS											9	
409+08 TO 409+09	ACROSS											39	
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**225**	**539**	**0**	**79**	

DRAINAGE

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON EACH	2501.502 18" RC PIPE APRON EACH	2501.502 24" RC PIPE APRON EACH	2501.502 INSTALL PIPE APRON EACH	2501.503 INSTALL PIPE CULVERT LIN FT	2106.603 CONSTRUCT DRAINAGE DITCH LIN FT	2501.603 CLEAN DRAINAGE DITCH LIN FT	2502.503 4" PVC PIPE DRAIN LIN FT	2502.503 6" PERF PE PIPE DRAIN LIN FT	2502.602 6" PVC PIPE DRAIN CLEANOUT EACH	2503.503 12" RC PIPE SEWER DES 3006 LIN FT	2503.503 15" RC PIPE SEWER DES 3006 LIN FT	2503.503 18" RC PIPE SEWER DES 3006 LIN FT	2503.503 24" RC PIPE SEWER DES 3006 LIN FT	2503.602 CONNECT TO EXISTING STORM SEWER EACH	2503.602 CONNECT TO EXISTING PIPE DRAIN EACH	2503.602 BULKHEAD EACH	2503.602 12" PIPE PLUG EACH	2503.603 PLUG FILL & ABANDON PIPE SEWER LIN FT	2506.602 CONNECT TO EXISTING STRUCTURE EACH	C REMARKS
CLYDE AVE																						
402+17 TO 402+59	LEFT											45										
402+59 TO 402+64	LEFT											8										
402+59 TO 403+03	ACROSS													58								
403+03	RIGHT		1				20															
409+08	RIGHT		1																			
409+08 TO 409+09	ACROSS													66								
409+10	LEFT															1						ST-496
PROJECT ITEM TOTALS		**0**	**2**	**0**	**0**	**0**	**20**	**0**	**0**	**0**	**0**	**53**	**0**	**124**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	

PAVEMENT MARKING

STATION TO STATION	LOCATION	2582.503 4" SOLID LINE PAINT LIN FT	2582.503 12" SOLID LINE PAINT LIN FT	2582.503 24" SOLID LINE PAINT LIN FT	2582.503 4" DOUBLE SOLID LINE PAINT LIN FT	2582.503 4" SOLID LINE MULTI COMP GR IN (WR) LIN FT	2582.503 4" BROKEN LINE MULTI COMP GR IN (WR) LIN FT	2582.518 4" DOTTED LINE MULTI COMP GR IN (WR) LIN FT	2582.518 PAVT MSSG MULTI COMP GR IN (WR) SQ FT	2582.518 CROSSWALK PAINT SQ FT	2582.518 CROSSWALK MULTI COMP GR IN (WR) SQ FT	H REMARKS
CLYDE AVE												
(NONE)												
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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 Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA

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

DULUTH PROJECT NO. 2194

CLYDE AVENUE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 135

PLOT DATE: Apr 10, 2025 - 10:04am
FILENAME: K:\a-fl\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\400 Clyde Ave Tabulations.dwg

REMOVALS & SAWCUTS

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING EACH	2104.502 REMOVE CATCH BASIN EACH	2104.502 REMOVE MANHOLE (STORM) EACH	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) LIN FT	2104.503 REMOVE SEWER PIPE (STORM) LIN FT	2104.503 REMOVE CURB & GUTTER LIN FT	2104.504 REMOVE PAVEMENT SQ YD	2104.504 REMOVE CONCRETE PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT SQ YD	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT SQ YD	2104.518 REMOVE CONCRETE WALK SQ FT	A REMARKS
MAPLE GROVE ROAD																
2000+36	ACROSS						26									BOP SAWCUT
2002+19 TO 2002+44	LEFT						25		25							
2002+90 TO 2003+14	LEFT						38		24					6		DRIVEWAY: 925
2003+46 TO 2003+66	LEFT						20		20							
2007+32 TO 2007+67	RIGHT						62		36					10		DRIVEWAY: CHURCH
2007+82 TO 2007+87	LEFT						25		25							
2007+87 TO 2008+14	LEFT						23									SAWCUT: EKLUND AVE
2008+14 TO 2008+33	LEFT						39		39							
2008+24 TO 2008+75	RIGHT						51									SAWCUT: ACCESS ROAD
2010+88 TO 2011+04	LEFT						16		16							
2013+45 TO 2013+63	RIGHT						18		18							
2013+54 TO 2013+67	LEFT						13		13							
2016+42 TO 2016+61	LEFT						19		19							
2016+42 TO 2016+61	RIGHT						19		19							
2016+79 TO 2016+87	LEFT						8		8							
2018+04 TO 2018+14	LEFT						10		10							
2021+05 TO 2021+30	LEFT						25									SAWCUT: N ROBIN AVE
2021+07 TO 2021+30	RIGHT						23									SAWCUT: N ROBIN AVE
2024+77 TO 2024+89	LEFT						13		13							
2027+66 TO 2027+90	LEFT						25		25							
2028+17 TO 2028+36	RIGHT						20		20							
2029+33 TO 2029+55	RIGHT						22									SAWCUT: N EBONY AVE
2029+68 TO 2030+03	RIGHT						33		33							
2032+57 TO 2032+60	RIGHT						19		19							
2032+60 TO 2032+87	RIGHT						22									SAWCUT: MAPLE BEND
2034+66	ACROSS						25									EOP SAWCUT
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**639**	**0**	**382**	**0**	**0**	**0**	**0**	**16**	**0**	

BITUMINOUS & AGGREGATE

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) HOUR	2131.506 CALCIUM CHLORIDE SOLUTION GALLON	2211.507 AGGREGATE BASE (CV) CLASS 5 CU YD	2215.504 FULL DEPTH RECLAMATION SQ YD	2215.507 HAUL FULL DEPTH RECLAMATION (LV) CU YD	2232.504 MILL BITUMINOUS SURFACE (2.0") SQ YD	2232.504 MILL BITUMINOUS SURFACE (3.0") SQ YD	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) GAL	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) TON	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) TON	2451.607 TRENCH BACKFILL (CV) CU YD	B REMARKS
MAPLE GROVE ROAD													
200+36 TO 2034+66									485	1163			
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**485**	**1163**	**0**	**0**	

DRAINAGE

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON EACH	2501.502 18" RC PIPE APRON EACH	2501.502 24" RC PIPE APRON EACH	2501.502 INSTALL PIPE APRON EACH	2501.503 INSTALL PIPE CULVERT LIN FT	2106.603 CONSTRUCT DRAINAGE DITCH LIN FT	2501.603 CLEAN DRAINAGE DITCH LIN FT	2502.503 4" PVC PIPE DRAIN LIN FT	2502.503 6" PERF PE PIPE DRAIN LIN FT	2502.602 6" PVC PIPE DRAIN CLEANOUT EACH	2503.503 12" RC PIPE SEWER DES 3006 LIN FT	2503.503 15" RC PIPE SEWER DES 3006 LIN FT	2503.503 18" RC PIPE SEWER DES 3006 LIN FT	2503.503 24" RC PIPE SEWER DES 3006 LIN FT	2503.602 CONNECT TO EXISTING STORM SEWER EACH	2503.602 CONNECT TO EXISTING PIPE DRAIN EACH	2503.602 BULKHEAD EACH	2503.602 12" PIPE PLUG EACH	2503.603 PLUG FILL & ABANDON PIPE SEWER LIN FT	2506.602 CONNECT TO EXISTING STRUCTURE EACH	C REMARKS
MAPLE GROVE ROAD																						
(NONE)																						
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

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SIGNATURE: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA

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

DULUTH PROJECT NO. 2194

MAPLE GROVE ROAD TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 140

PLOT DATE: Apr 10, 2025 - 10:09am
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\2000 Maple Grove Rd Tabulations.dwg

REMOVALS & SAWCUTS

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING (EACH)	2104.502 REMOVE CATCH BASIN (EACH)	2104.502 REMOVE MANHOLE (STORM) (EACH)	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 REMOVE SEWER PIPE (STORM) (LIN FT)	2104.503 REMOVE CURB & GUTTER (LIN FT)	2104.504 REMOVE PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT (SQ YD)	2104.518 REMOVE CONCRETE WALK (SQ FT)	REMARKS
OBSERVATION ROAD																
2300+52	ACROSS						104									BOP SAWCUT
2331+99 TO 2332+17	LEFT						21									SAWCUT: ACCESS WDIO
2333+54 TO 2333+72	LEFT						18									SAWCUT: ACCESS WDIO
2348+50	RIGHT	1														CB0500001
2348+50	LEFT	1														CB0500002
2348+68	LEFT	1														CB0500003
2348+69 TO 2348+89	LEFT						20									SAWCUT: W 9TH ST
2348+95	LEFT	1														CB0500004
2349+87	RIGHT	1														SA0500001
2350+63	RIGHT	1														SA0500003
2352+15	LEFT		1													
2352+40 TO 2352+62	LEFT						23									SAWCUT: W 8TH ST
2352+42 TO 2352+62	RIGHT						20									SAWCUT: W 8TH ST
2352+50	RIGHT	1														SA0500004
2352+61	RIGHT	1														ST0500002
2353+53 TO 2353+81	RIGHT						29									SAWCUT: ACCESS 1100
2354+50 TO 2354+61	LEFT						12									SAWCUT: ACCESS 1031
2354+76 TO 2356+11	RIGHT						140		140							
2355+65	RIGHT	1														CB0500007
2355+66	LEFT	1														CB0500008
2355+76	RIGHT	1														ST0500003
2355+79 TO 2355+85	LEFT				5										8	
2356+12	ACROSS						40									EOP SAWCUT
PROJECT ITEM TOTALS		**11**	**1**	**0**	**5**	**0**	**427**	**0**	**140**	**0**	**0**	**0**	**0**	**0**	**8**	

BITUMINOUS & AGGREGATE

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) (HOUR)	2131.506 CALCIUM CHLORIDE SOLUTION (GALLON)	2211.507 AGGREGATE BASE (CV) CLASS 5 (CU YD)	2215.504 FULL DEPTH RECLAMATION (SQ YD)	2215.507 HAUL FULL DEPTH RECLAMATION (LV) (CU YD)	2232.504 MILL BITUMINOUS SURFACE (2.0") (SQ YD)	2232.504 MILL BITUMINOUS SURFACE (3.0") (SQ YD)	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) (GAL)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) (TON)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) (TON)	2451.607 TRENCH BACKFILL (CV) (CU YD)	REMARKS
OBSERVATION ROAD													
2300+52 TO 2356+12									815	1955	0		INCLUDES DRIVEWAYS
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**815**	**1955**	**0**	**0**	

DRAINAGE

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON (EACH)	2501.502 18" RC PIPE APRON (EACH)	2501.502 24" RC PIPE APRON (EACH)	2501.502 INSTALL PIPE APRON (EACH)	2501.503 INSTALL PIPE CULVERT (LIN FT)	2106.603 CONSTRUCT DRAINAGE DITCH (LIN FT)	2501.603 CLEAN DRAINAGE DITCH (LIN FT)	2502.503 4" PVC PIPE DRAIN (LIN FT)	2502.503 6" PERF PE PIPE DRAIN (LIN FT)	2502.602 6" PVC PIPE DRAIN CLEANOUT (EACH)	2503.503 12" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 15" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 18" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 24" RC PIPE SEWER DES 3006 (LIN FT)	2503.602 CONNECT TO EXISTING STORM SEWER (EACH)	2503.602 CONNECT TO EXISTING PIPE DRAIN (EACH)	2503.602 BULKHEAD (EACH)	2503.602 12" PIPE PLUG (EACH)	2503.603 PLUG FILL & ABANDON PIPE SEWER (LIN FT)	2506.602 CONNECT TO EXISTING STRUCTURE (EACH)	REMARKS
OBSERVATION ROAD																						
2355+66	LEFT																1					CB0500008. SUMP LINE.
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENUDM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

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SIGNATURE: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA

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

DULUTH PROJECT NO. 2194

OBSERVATION ROAD TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 148

PLOT DATE: Apr 10, 2025 - 10:13am
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\2300 Observation Rd Tabulations.dwg

REMOVALS & SAWCUTS

A

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING ASSEMBLY EACH	2104.502 REMOVE CATCH BASIN EACH	2104.502 REMOVE MANHOLE (STORM) EACH	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) LIN FT	2104.503 REMOVE SEWER PIPE (STORM) LIN FT	2104.503 REMOVE CURB & GUTTER LIN FT	2104.504 REMOVE PAVEMENT SQ YD	2104.504 REMOVE CONCRETE PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT SQ YD	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT SQ YD	2104.518 REMOVE CONCRETE WALK SQ FT	REMARKS
BERKELY ROAD																
600+81	ACROSS						25									BOP SAWCUT
601+20 TO 601+56	LEFT				16		39		39		9					DRIVEWAY: 3017
601+49 to 601+82	RIGHT				25		34		34		8					DRIVEWAY: 3016
602+82 TO 603+03	RIGHT				18		22		22		7					DRIVEWAY: 3010
603+38 TO 603+58	LEFT						20		20							
603+49 TO 603+81	RIGHT						61		34		9	6				DRIVEWAY: 3006
604+18 TO 604+53	RIGHT						36		36							
603+95 TO 605+81	LEFT				17		186		186		7					
605+75 TO 605+88	RIGHT						13		13							
605+79	RIGHT		1					27								CB0560060
605+79 TO 605+83	ACROSS															
605+83	LEFT		1													CB0560061
605+83 TO 606+19	LEFT							37								
606+00	LEFT		1													
606+04	ACROSS						57									EOP SAWCUT
PROJECT ITEM TOTALS		**0**	**3**	**0**	**76**	**0**	**493**	**64**	**384**	**0**	**40**	**6**	**0**	**0**	**0**	

2

BITUMINOUS & AGGREGATE

STATION TO STATION	LOCATION	2123.610 STREET SWEEPER (WITH PICKUP BROOM) HOUR	2131.506 CALCIUM CHLORIDE SOLUTION GALLON	2211.507 AGGREGATE BASE (CV) CLASS 5 CU YD	2215.504 FULL DEPTH RECLAMATION SQ YD	2215.507 HAUL FULL DEPTH RECLAMATION (LV) CU YD	2232.504 MILL BITUMINOUS SURFACE (2.0") SQ YD	2232.504 MILL BITUMINOUS SURFACE (3.0") SQ YD	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) GAL	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) TON	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) TON	2451.607 TRENCH BACKFILL (CV) CU YD	REMARKS
BERKELY ROAD													
600+81 TO 606+4			349		1394		0		70	0	293		
603+49 TO 603+81	RIGHT										2		DRIVEWAY: 3006
605+79 TO 605+83	ACROSS											40	CB0560060 TO CB0560061
605+83 TO 606+20	LEFT											55	CB0560061 TO ST0560045
PROJECT ITEM TOTALS		**0**	**349**	**0**	**1394**	**0**	**0**	**0**	**70**	**0**	**295**	**95**	

DRAINAGE

C

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON EACH	2501.502 18" RC PIPE APRON EACH	2501.502 24" RC PIPE APRON EACH	2501.502 INSTALL PIPE APRON EACH	2501.503 INSTALL PIPE CULVERT LIN FT	2106.603 CONSTRUCT DRAINAGE DITCH LIN FT	2501.603 CLEAN DRAINAGE DITCH LIN FT	2502.503 4" PVC PIPE DRAIN LIN FT	2502.503 6" PERF PE PIPE DRAIN LIN FT	2502.602 6" PVC PIPE DRAIN CLEANOUT EACH	2503.503 12" RC PIPE SEWER DES 3006 LIN FT	2503.503 15" RC PIPE SEWER DES 3006 LIN FT	2503.503 18" RC PIPE SEWER DES 3006 LIN FT	2503.503 24" RC PIPE SEWER DES 3006 LIN FT	2503.602 CONNECT TO EXISTING STORM SEWER EACH	2503.602 CONNECT TO EXISTING PIPE DRAIN EACH	2503.602 BULKHEAD EACH	2503.602 12" PIPE PLUG EACH	2503.603 PLUG FILL & ABANDON PIPE SEWER LIN FT	2506.602 CONNECT TO EXISTING STRUCTURE EACH	REMARKS
BERKELY ROAD																						
605+79 TO 605+83	ACROSS											27										CB0560060 TO CB0560061
605+83 TO 606+20	LEFT											37										CB0560061 TO ST0560045
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**64**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

STRUCTURES & CASTINGS

D

STATION TO STATION	LOCATION	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN F EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL EACH	REMARKS
BERKELY ROAD								
605+83	RIGHT		1.0					
PROJECT ITEM TOTALS		**0.0**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA®

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

DULUTH PROJECT NO. 2194

BERKLEY ROAD TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 156

PLOT DATE: Apr 10, 2025 - 10:17am
FILENAME: K:\a-f\Duluth_City\220080000\04_Production\01_CAD\02_Sheets\600 Berkley Rd Tabulations.dwg

BITUMINOUS & AGGREGATE — B

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) HOUR	2131.506 CALCIUM CHLORIDE SOLUTION GALLON	2211.507 AGGREGATE BASE (CV) CLASS 5 CU YD	2215.504 FULL DEPTH RECLAMATION SQ YD	2215.507 HAUL FULL DEPTH RECLAMATION (LV) CU YD	2232.504 MILL BITUMINOUS SURFACE (2.0") SQ YD	2232.504 MILL BITUMINOUS SURFACE (3.0") SQ YD	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) GAL	2360.509 TYPE SP 4.75 BIT MIX FOR TIGHT BLADE LEV TON	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) TON	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) TON	2451.607 TRENCH BACKFILL (CV) CU YD	REMARKS
PALISADE DRIVE														
700+17 TO 736+15			2374		9495	1200			475			2016		INCLUDES DRIVEWAYS
728+89 TO 728+92	ACROSS												40	
PROJECT ITEM TOTALS		**0**	**2374**	**0**	**9495**	**1200**	**0**	**0**	**475**	**0**	**0**	**2016**	**40**	

DRAINAGE — C

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON EACH	2501.502 18" RC PIPE APRON EACH	2501.502 24" RC PIPE APRON EACH	2501.502 INSTALL PIPE APRON EACH	2501.503 INSTALL PIPE CULVERT LIN FT	2106.603 CONSTRUCT DRAINAGE DITCH LIN FT	2501.603 CLEAN DRAINAGE DITCH LIN FT	2502.503 4" PVC PIPE DRAIN LIN FT	2502.503 6" PERF PE PIPE DRAIN LIN FT	2502.602 6" PVC PIPE DRAIN CLEANOUT EACH	2503.503 12" RC PIPE SEWER DES 3006 LIN FT	2503.503 15" RC PIPE SEWER DES 3006 LIN FT	2503.503 18" RC PIPE SEWER DES 3006 LIN FT	2503.503 24" RC PIPE SEWER DES 3006 LIN FT	2503.602 CONNECT TO EXISTING STORM SEWER EACH	2503.602 CONNECT TO EXISTING PIPE DRAIN EACH	2503.602 BULKHEAD EACH	2503.602 12" PIPE PLUG EACH	2503.603 PLUG FILL & ABANDON PIPE SEWER LIN FT	2506.602 CONNECT TO EXISTING STRUCTURE EACH	REMARKS
PALISADE DRIVE																						
706+69	RIGHT															1						ST0560062
706+96	LEFT															1						ST0560045
727+91 TO 728+91	LEFT								19	96	1											
728+57 TO 728+89	RIGHT								21	35	1											
728+89	RIGHT															2						CB0560073
728+91 TO 729+59	RIGHT								41	73	1											
728+93 TO 730+20	LEFT									121	1											
728+89 TO 728+92	ACROSS	1								80		27										
730+81 TO 734+71	LEFT								102	404	2										1	
PROJECT ITEM TOTALS		**1**	**0**	**0**	**0**	**0**	**0**	**0**	**183**	**809**	**6**	**27**	**0**	**0**	**0**	**4**	**0**	**0**	**0**	**0**	**1**	

STRUCTURES & CASTINGS — D

STATION TO STATION	LOCATION	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN F EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL EACH	REMARKS
PALISADE DRIVE								
706+69	RIGHT						3.0	CB0560062
728+89	RIGHT		6.0					CB0560073
728+92	LEFT						4.0	CB0560074
PROJECT ITEM TOTALS		**0.0**	**6.0**	**0.0**	**0.0**	**0.0**	**7.0**	

TEMPORARY EROSION CONTROL — F

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION EACH	2573.502 CULVERT END CONTROLS EACH	2575.602 EROSION CONTROL MOBILIZATION EACH	REMARKS
PALISADE DRIVE					
700+17 TO 736+15				1	ESTIMATED AREA = 6331 SQ FT
PROJECT ITEM TOTALS		**0**	**0**	**1**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

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DULUTH PROJECT NO. 2194

PALISADE DRIVE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 161

PLOT DATE: Apr 10, 2025 - 10:52am
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\700 Palisade Dr Tabulations.dwg

BITUMINOUS & AGGREGATE

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) HOUR	2131.506 CALCIUM CHLORIDE SOLUTION GALLON	2211.507 AGGREGATE BASE (CV) CLASS 5 CU YD	2215.504 FULL DEPTH RECLAMATION SQ YD	2215.507 HAUL FULL DEPTH RECLAMATION (LV) CU YD	2232.504 MILL BITUMINOUS SURFACE (2.0") SQ YD	2232.504 MILL BITUMINOUS SURFACE (3.0") SQ YD	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) GAL	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) TON	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) TON	2451.607 TRENCH BACKFILL (CV) CU YD	REMARKS
PARKWOOD LANE & HANFORD AVENUE													
800+71 TO 805+60			329		1317	166			66		316		
805+42 to 805+67	LEFT											38	
805+84 TO 842+45			2425		9699	1226			485		2329		INCLUDES DRIVEWAYS
811+23 TO 811+32	RIGHT											11	
822+34	ACROSS											31	CB0560082 TO CB0560081
PROJECT ITEM TOTALS		**0**	**2754**	**0**	**11016**	**1392**	**0**	**0**	**551**	**0**	**2645**	**79**	

DRAINAGE — C

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON EACH	2501.502 18" RC PIPE APRON EACH	2501.502 24" RC PIPE APRON EACH	2501.502 INSTALL PIPE APRON EACH	2501.503 INSTALL PIPE CULVERT LIN FT	2106.603 CONSTRUCT DRAINAGE DITCH LIN FT	2501.603 CLEAN DRAINAGE DITCH LIN FT	2502.503 4" PVC PIPE DRAIN LIN FT	2502.503 6" PERF PE PIPE DRAIN LIN FT	2502.602 6" PVC PIPE DRAIN CLEANOUT EACH	2503.503 12" RC PIPE SEWER DES 3006 LIN FT	2503.503 15" RC PIPE SEWER DES 3006 LIN FT	2503.503 18" RC PIPE SEWER DES 3006 LIN FT	2503.503 24" RC PIPE SEWER DES 3006 LIN FT	2503.602 CONNECT TO EXISTING STORM SEWER EACH	2503.602 CONNECT TO EXISTING FORCE MAIN EACH	2503.602 BULKHEAD EACH	2503.602 12" PIPE PLUG EACH	2503.603 PLUG FILL & ABANDON PIPE SEWER LIN FT	2506.602 CONNECT TO EXISTING STRUCTURE EACH	REMARKS
PARKWOOD LANE																						
805+42 to 805+67	LEFT											32										
806+86 TO 809+27	LEFT								80	2445	1										1	
811+23 TO 811+32	RIGHT											9										
817+06 TO 817+46	RIGHT									44	1											
819+21 TO 822+33	RIGHT								61	302	1										1	
820+41 TO 822+33	LEFT								60	205	1										1	
822+34	ACROSS											26				1						CB0560082 TO CB0560081
828+12					1																	44" DIAMETER. ST-APRON 1
829+76 TO 832+09	RIGHT									235	1										1	
831+34 TO 831+96	LEFT									63	2										2	
836+12 TO 837+16	RIGHT									106	1										1	
PROJECT ITEM TOTALS		**0**	**0**	**0**	**1**	**0**	**0**	**0**	**201**	**3400**	**8**	**67**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**7**	

STRUCTURES & CASTINGS — D

STATION TO STATION	LOCATION	2506.503 CONSTRUCT DRAINAGE STRUCTURE DESIGN F EACH	2506.503 CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020 EACH	2506.503 CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020 EACH	2506.503 CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020 EACH	2506.503 CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL EACH	REMARKS
PARKWOOD LANE & HANFORD AVENUE								
822+34	LEFT						4.0	CB0560082
822+34	RIGHT		4.3					CB0560081
831+84	LEFT		5.0					ST0560131
833+76	LEFT		4.0					ST0560132
PROJECT ITEM TOTALS		**0.0**	**13.3**	**0.0**	**0.0**	**0.0**	**4.0**	

TEMPORARY EROSION CONTROL — F

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION EACH	2573.502 CULVERT END CONTROLS EACH	2575.602 EROSION CONTROL MOBILIZATION EACH	REMARKS
PARKWOOD LANE & HANFORD AVENUE					
800+71 TO 842+45				1	ESTIMATED AREA = 7382 SQ FT
PROJECT ITEM TOTALS		**0**	**0**	**1**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

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

DULUTH PROJECT NO. 2194

PARKWOOD LANE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 169

PLOT DATE: Apr 10, 2025 - 10:27am
FILENAME: K:\ta-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\800 Parkwood Ln Tabulations.dwg

REMOVALS & SAWCUTS

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING EACH	2104.502 REMOVE CATCH BASIN EACH	2104.502 REMOVE MANHOLE (STORM) EACH	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) LIN FT	2104.503 REMOVE SEWER PIPE (STORM) LIN FT	2104.503 REMOVE CURB & GUTTER LIN FT	2104.504 REMOVE PAVEMENT SQ YD	2104.504 REMOVE CONCRETE PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT SQ YD	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT SQ YD	2104.518 REMOVE CONCRETE WALK SQ FT	A REMARKS
PORTAGE DRIVE																
900+40 TO 900+66	LEFT						26		24			6				
900+45 TO 900+55	RIGHT						9		9			2				
903+15 TO 903+37	LEFT						40		21			5	5			
904+21 TO 904+48	LEFT						29		29			6				
904+67 TO 905+80	LEFT						118		118			28				
904+99 TO 905+24	RIGHT						24		24			5				
905+00 TO 905+25	RIGHT						26		26			6				
905+12 TO 905+13	ACROSS							27								
906+27 TO 906+47	LEFT						20		20			4				
906+72 TO 906+93	LEFT						20		21			5				
907+89 TO 908+55	LEFT				13		83		70			12				
907+89 TO 908+33	RIGHT						46		46			10				
908+10 TO 908+11	ACROSS							26								
908+42 TO 908+62	LEFT						20		20			4				
909+32 TO 909+94	LEFT						60		60			13				
912+03 TO 912+60	LEFT				25		58		58			13		8		
913+17 TO 913+43	LEFT				16		39		39			5		19		
913+71 TO 914+09	LEFT						40		40			9				
914+27 TO 916+76	LEFT						382		382			85	64			
914+54	LEFT	1														CB0560045
914+30 TO 918+73	RIGHT						443		443			99				
915+91 TO 916+07	RIGHT							16								
918+36	RIGHT	1														CB0560043
919+52 TO 920+18	RIGHT						119		88			18	15			
920+55 TO 920+89	RIGHT						61		55			21				
									0							
PROJECT ITEM TOTALS		**2**	**0**	**0**	**54**	**0**	**1663**	**69**	**1593**	**0**	**0**	**356**	**84**	**27**	**0**	

BITUMINOUS & AGGREGATE

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) HOUR	2131.506 CALCIUM CHLORIDE SOLUTION GALLON	2211.507 AGGREGATE BASE (CV) CLASS 5 CU YD	2215.504 FULL DEPTH RECLAMATION SQ YD	2215.507 HAUL FULL DEPTH RECLAMATION (LV) CU YD	2232.504 MILL BITUMINOUS SURFACE (2.0") SQ YD	2232.504 MILL BITUMINOUS SURFACE (3.0") SQ YD	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) GAL	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) TON	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) TON	2451.607 TRENCH BACKFILL (CV) CU YD	B REMARKS
PORTAGE DRIVE													
900+40 TO 920+89			1364		5457				273		1663		INCLUDES DRIVEWAYS
905+12 TO 905+13	ACROSS											32	CB0560069 TO CB0560070
908+10 TO 908+11	ACROSS											31	CB0560067 TO CB0560068
915+91 TO 916+07	RIGHT											19	SPOT REPAIR
PROJECT ITEM TOTALS		**0**	**1364**	**0**	**5457**	**0**	**0**	**0**	**273**	**0**	**1663**	**82**	

DRAINAGE

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON EACH	2501.502 18" RC PIPE APRON EACH	2501.502 24" RC PIPE APRON EACH	2501.502 INSTALL PIPE APRON EACH	2501.503 INSTALL PIPE CULVERT LIN FT	2106.603 CONSTRUCT DRAINAGE DITCH LIN FT	2501.603 CLEAN DRAINAGE DITCH LIN FT	2502.503 4" PVC PIPE DRAIN LIN FT	2502.503 6" PERF PE PIPE DRAIN LIN FT	2502.602 6" PVC PIPE DRAIN CLEANOUT EACH	2503.503 12" RC PIPE SEWER DES 3006 LIN FT	2503.503 15" RC PIPE SEWER DES 3006 LIN FT	2503.503 18" RC PIPE SEWER DES 3006 LIN FT	2503.503 24" RC PIPE SEWER DES 3006 LIN FT	2503.602 CONNECT TO EXISTING STORM SEWER EACH	2503.602 CONNECT TO EXISTING PIPE DRAIN EACH	2503.602 BULKHEAD EACH	2503.602 12" PIPE PLUG EACH	2503.603 PLUG FILL & ABANDON PIPE SEWER LIN FT	2506.602 CONNECT TO EXISTING STRUCTURE EACH	C REMARKS
PORTAGE DRIVE																						
905+12 TO 905+13	ACROSS											27									2	CB0560069 TO CB0560070
908+10 TO 908+11	ACROSS											26									2	CB0560067 TO CB0560068
915+91 TO 916+07	RIGHT											16				2						SPOT REPAIR
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**69**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**4**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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 _____ DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

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

DULUTH PROJECT NO. 2194

PORTAGE DRIVE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 175

PLOT DATE: Apr 10, 2025 - 10:31am
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\900 Portage Dr Tabulations.dwg

REMOVALS & SAWCUTS

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING EACH	2104.502 REMOVE CATCH BASIN EACH	2104.502 REMOVE MANHOLE (STORM) EACH	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) LIN FT	2104.503 REMOVE SEWER PIPE (STORM) LIN FT	2104.503 REMOVE CURB & GUTTER LIN FT	2104.504 REMOVE PAVEMENT SQ YD	2104.504 REMOVE CONCRETE PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT SQ YD	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT SQ YD	2104.518 REMOVE CONCRETE WALK SQ FT	A REMARKS
KARL AVENUE																
1000+18	ACROSS						65									BOP SAWCUT
1000+20 TO 1000+42	RIGHT						32		32							
1000+21 TO 1001+60	LEFT						165		165							
1001+80 TO 1002+46	LEFT						84		66		6					DRIVEWAY: 2210
1002+52 TO 1002+80	RIGHT						28		28							
1003+58 TO 1003+69	LEFT						11		11							
1003+60 TO 1003+67	RIGHT						7		7							
1004+44 TO 1006+75	LEFT						262		243		6	4				DRIVEWAY: 2218
1005+33 TO 1005+38	RIGHT						6		6							
1006+76	ACROSS						71									
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**731**	**0**	**558**	**0**	**12**	**4**	**0**	**0**	**0**	

BITUMINOUS & AGGREGATE

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) HOUR	2131.506 CALCIUM CHLORIDE SOLUTION GALLON	2211.507 AGGREGATE BASE (CV) CLASS 5 CU YD	2215.504 FULL DEPTH RECLAMATION SQ YD	2215.507 HAUL FULL DEPTH RECLAMATION (LV) CU YD	2232.504 MILL BITUMINOUS SURFACE (2.0") SQ YD	2232.504 MILL BITUMINOUS SURFACE (3.0") SQ YD	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) GAL	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) TON	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) TON	2451.607 TRENCH BACKFILL (CV) CU YD	B REMARKS
KARL AVENUE													
1000+18 TO 1006+76			442		1766				89		371		INCLUDES DRIVEWAYS
1003+86	LEFT											9	
PROJECT ITEM TOTALS		**0**	**442**	**0**	**1766**	**0**	**0**	**0**	**89**	**0**	**371**	**9**	

DRAINAGE

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON EACH	2501.502 18" RC PIPE APRON EACH	2501.502 24" RC PIPE APRON EACH	2501.502 INSTALL PIPE APRON EACH	2501.503 INSTALL PIPE CULVERT LIN FT	2106.603 CONSTRUCT DRAINAGE DITCH LIN FT	2501.603 CLEAN DRAINAGE DITCH LIN FT	2502.503 4" PVC PIPE DRAIN LIN FT	2502.503 6" PERF PE PIPE DRAIN LIN FT	2502.602 6" PVC PIPE DRAIN CLEANOUT EACH	2503.503 12" RC PIPE SEWER DES 3006 LIN FT	2503.503 15" RC PIPE SEWER DES 3006 LIN FT	2503.503 18" RC PIPE SEWER DES 3006 LIN FT	2503.503 24" RC PIPE SEWER DES 3006 LIN FT	2503.602 CONNECT TO EXISTING STORM SEWER EACH	2503.602 CONNECT TO EXISTING PIPE DRAIN EACH	2503.602 BULKHEAD EACH	2503.602 12" PIPE PLUG EACH	2503.603 PLUG FILL & ABANDON PIPE SEWER LIN FT	2506.602 CONNECT TO EXISTING STRUCTURE EACH	C REMARKS
KARL AVE																						
1003+86	LEFT				1	8										1						18" DIAMETER. ST-APRON 4
1005+37																2						CB0560047
PROJECT ITEM TOTALS		**0**	**0**	**0**	**1**	**8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	

STRUCTURES & CASTINGS

STATION TO STATION	LOCATION	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN F EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL EACH	D REMARKS
KARL AVE								
PROJECT ITEM TOTALS		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENUDM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA

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

DULUTH PROJECT NO. 2194

KARL AVENUE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 180

PLOT DATE: Apr 10, 2025 - 10:36am
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\1000 Karl Ave Tabulations.dwg

REMOVALS & SAWCUTS

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING (EACH)	2104.502 REMOVE CATCH BASIN (EACH)	2104.502 REMOVE MANHOLE (STORM) (EACH)	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 REMOVE SEWER PIPE (STORM) (LIN FT)	2104.503 REMOVE CURB & GUTTER (LIN FT)	2104.504 REMOVE PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT (SQ YD)	2104.518 REMOVE CONCRETE WALK (SQ FT)	A REMARKS
ASBURY DRIVE																
1100+12 TO 1100+37	LEFT				40				40							CURB
1101+31 TO 1101+64	RIGHT				33				35					8		CURB & DRIVEWAY
1102+86 TO 1103+14	LEFT				27				27							CURB
1102+95 TO 1103+08	RIGHT				14				15							CURB
1103+00	LEFT							15								CB0560042 OUTLET
1105+70 TO 1110+60	LEFT				495				497				9	21		CURB & DRIVEWAY (x4)
1105+96 TO 1106+28	RIGHT				30				29							CURB
1107+19 TO 1110+31	RIGHT				312				312				13	17		CURB & DRIVEWAY (x3)
1107+49	ACROSS		2					27								CB0560039 TO CB0560040
1111+90 TO 1112+13	LEFT													5		DRIVEWAY
PROJECT ITEM TOTALS		**0**	**2**	**0**	**951**	**0**	**0**	**42**	**956**	**0**	**0**	**0**	**22**	**52**	**0**	

2

BITUMINOUS & AGGREGATE

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) (HOUR)	2131.506 CALCIUM CHLORIDE SOLUTION (GALLON)	2211.507 AGGREGATE BASE (CV) CLASS 5 (CU YD)	2215.504 FULL DEPTH RECLAMATION (SQ YD)	2215.507 HAUL FULL DEPTH RECLAMATION (LV) (CU YD)	2232.504 MILL BITUMINOUS SURFACE (2.0") (SQ YD)	2232.504 MILL BITUMINOUS SURFACE (3.0") (SQ YD)	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) (GAL)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) (TON)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) (TON)	2451.607 TRENCH BACKFILL (CV) (CU YD)	B REMARKS
ASBURY DRIVE													
1100+00 TO 1112+85	LEFT & RIGHT		853		3410						717		
1103+00	LEFT											18	CB0560042 OUTLET
1107+49	ACROSS											40	CB0560039 TO CB0560040
PROJECT ITEM TOTALS		**0**	**853**	**0**	**3410**	**0**	**0**	**0**	**0**	**0**	**717**	**58**	

DRAINAGE

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON (EACH)	2501.502 18" RC PIPE APRON (EACH)	2501.502 24" RC PIPE APRON (EACH)	2501.502 INSTALL PIPE APRON (EACH)	2501.503 INSTALL PIPE CULVERT (LIN FT)	2106.603 CONSTRUCT DRAINAGE DITCH (LIN FT)	2501.603 CLEAN DRAINAGE DITCH (LIN FT)	2502.503 4" PVC PIPE DRAIN (LIN FT)	2502.503 6" PERF PE PIPE DRAIN (LIN FT)	2502.602 6" PVC PIPE DRAIN CLEANOUT (EACH)	2503.503 12" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 15" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 18" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 24" RC PIPE SEWER DES 3006 (LIN FT)	2503.602 CONNECT TO EXISTING STORM SEWER (EACH)	2503.602 CONNECT TO EXISTING PIPE DRAIN (EACH)	2503.602 BULKHEAD (EACH)	2503.602 12" PIPE PLUG (EACH)	2503.603 PLUG FILL & ABANDON PIPE SEWER (LIN FT)	2506.602 CONNECT TO EXISTING STRUCTURE (EACH)	C REMARKS
ASBURY DRIVE																						
1103+00	LEFT	1											12			1						CB0560042 OUTLET
1107+49	ACROSS											27				1						CB0560039 TO CB0560040
PROJECT ITEM TOTALS		**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**27**	**12**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	

STRUCTURES & CASTINGS

STATION TO STATION	LOCATION	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN F (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL (EACH)	D REMARKS
ASBURY DRIVE								
1107+49	RIGHT			1.0				CB0560040
1107+49	LEFT							CB0560039
PROJECT ITEM TOTALS		**0.0**	**0.0**	**1.0**	**0.0**	**0.0**	**0.0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA®

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

DULUTH PROJECT NO. 2194

ASBURY DRIVE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 184

PLOT DATE: Apr 10, 2025 - 10:39am
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\1100 Asbury Dr Tabulations.dwg

REMOVALS & SAWCUTS

A

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING EACH	2104.502 REMOVE CATCH BASIN EACH	2104.502 REMOVE MANHOLE (STORM) EACH	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) LIN FT	2104.503 REMOVE SEWER PIPE (STORM) LIN FT	2104.503 REMOVE CURB & GUTTER LIN FT	2104.504 REMOVE PAVEMENT SQ YD	2104.504 REMOVE CONCRETE PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT SQ YD	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT SQ YD	2104.518 REMOVE CONCRETE WALK SQ FT	REMARKS
ECHO LANE																
1201+34 TO 1202+03	LEFT				84				55				8	5		CURB & DRIVEWAY
1201+81 TO 1202+05	RIGHT				25				25							CURB
1202+40 TO 1202+83	RIGHT				43				43							CURB
1202+54 TO 1202+74	LEFT				21				21							CURB
1202+61	LEFT		1					15								
1204+27 TO 1204+40	RIGHT				13				13							CURB
1204+63 TO 1204+95	LEFT				35				33							CURB
PROJECT ITEM TOTALS		**0**	**1**	**0**	**221**	**0**	**0**	**15**	**190**	**0**	**0**	**0**	**8**	**5**	**0**	

BITUMINOUS & AGGREGATE

2

B

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) HOUR	2131.506 CALCIUM CHLORIDE SOLUTION GALLON	2211.507 AGGREGATE BASE (CV) CLASS 5 CU YD	2215.504 FULL DEPTH RECLAMATION SQ YD	2215.507 HAUL FULL DEPTH RECLAMATION (LV) CU YD	2232.504 MILL BITUMINOUS SURFACE (2.0") SQ YD	2232.504 MILL BITUMINOUS SURFACE (3.0") SQ YD	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) GAL	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) TON	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) TON	2451.607 TRENCH BACKFILL (CV) CU YD	REMARKS
ECHO LANE													
1200+00 TO 1204+75			412		1646				83		346		
1202+61	LEFT											22	CB0560098
PROJECT ITEM TOTALS		**0**	**412**	**0**	**1646**	**0**	**0**	**0**	**83**	**0**	**346**	**22**	

DRAINAGE

C

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON EACH	2501.502 18" RC PIPE APRON EACH	2501.502 24" RC PIPE APRON EACH	2501.502 INSTALL PIPE APRON EACH	2501.503 INSTALL PIPE CULVERT LIN FT	2106.603 CONSTRUCT DRAINAGE DITCH LIN FT	2501.603 CLEAN DRAINAGE DITCH LIN FT	2502.503 4" PVC PIPE DRAIN LIN FT	2502.503 6" PERF PE PIPE DRAIN LIN FT	2502.602 6" PVC PIPE DRAIN CLEANOUT EACH	2503.503 12" RC PIPE SEWER DES 3006 LIN FT	2503.503 15" RC PIPE SEWER DES 3006 LIN FT	2503.503 18" RC PIPE SEWER DES 3006 LIN FT	2503.503 24" RC PIPE SEWER DES 3006 LIN FT	2503.602 CONNECT TO EXISTING STORM SEWER EACH	2503.602 CONNECT TO EXISTING PIPE DRAIN EACH	2503.602 BULKHEAD EACH	2503.602 12" PIPE PLUG EACH	2503.603 PLUG FILL & ABANDON PIPE SEWER LIN FT	2506.602 CONNECT TO EXISTING STRUCTURE EACH	REMARKS
ECHO LANE																						
1200+29	RIGHT				1	8										1						15" DIAMETER APRON, ST-APRON 3
1202+61	LEFT											15				1						CB0560098
PROJECT ITEM TOTALS		**0**	**0**	**0**	**1**	**8**	**0**	**0**	**0**	**0**	**0**	**15**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	

STRUCTURES & CASTINGS

D

STATION TO STATION	LOCATION	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN F EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL EACH	REMARKS
ECHO LANE								
1202+61	RIGHT		1.0					CB0560098
PROJECT ITEM TOTALS		**0.0**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	

CONCRETE

E

STATION TO STATION	LOCATION	2301.502 DOWEL BAR EACH	2301.602 DRILL & GROUT DOWEL BAR (EPOXY COATED) EACH	2301.602 DRILL & GROUT REINF BAR (EPOXY COATED) EACH	2411.607 CONCRETE STEPS CU YD	2521.518 4" CONCRETE WALK SQ FT	2521.518 6" CONCRETE WALK SQ FT	2531.503 CONCRETE CURB & GUTTER DESIGN B624 LIN FT	2531.503 CONCRETE CURB & GUTTER DESIGN S424 LIN FT	2531.503 CONCRETE CURB DESIGN V6 LIN FT	2531.504 8" CONCRETE DRIVEWAY PAVEMENT SQ YD	2531.618 TRUNCATED DOMES SQ FT	REMARKS
ECHO LANE													
1201+34 TO 1202+03	LEFT							55			5		
1201+82 TO 1202+05	RIGHT							25					
1202+40 TO 1202+83	RIGHT							43					
1202+54 TO 1202+74	LEFT							21					
1204+27 TO 1204+40	RIGHT							13					
1204+63 TO 1204+95	LEFT							33					
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**190**	**0**	**0**	**5**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA®

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

DULUTH PROJECT NO. 2194

ECHO LANE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 189

PLOT DATE: Apr 10, 2025 - 10:42am
FILENAME: K:\ta-f\Duluth_City\2200800\04_Production\01_CAD\02_Sheets\1200 Echo Ln Tabulations.dwg

REMOVALS & SAWCUTS

A

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING EACH	2104.502 REMOVE CATCH BASIN EACH	2104.502 REMOVE MANHOLE (STORM) EACH	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) LIN FT	2104.503 REMOVE SEWER PIPE (STORM) LIN FT	2104.503 REMOVE CURB & GUTTER LIN FT	2104.504 REMOVE PAVEMENT SQ YD	2104.504 REMOVE CONCRETE PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT SQ YD	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT SQ YD	2104.518 REMOVE CONCRETE WALK SQ FT	REMARKS
PALISADE CIRCLE																
1300+21 TO 1300+45	LEFT				19		56		52			12		10		
1300+21 TO 1301+89	RIGHT						266		230			52	16		27	
1301+16 TO 1301+86	LEFT						80		76			17				
1301+65	LEFT	1						20								CB0560066
PROJECT ITEM TOTALS		**1**	**0**	**0**	**19**	**0**	**402**	**20**	**358**	**0**	**0**	**81**	**16**	**10**	**27**	

2

BITUMINOUS & AGGREGATE

B

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) HOUR	2131.506 CALCIUM CHLORIDE SOLUTION GALLON	2211.507 AGGREGATE BASE (CV) CLASS 5 CU YD	2215.504 FULL DEPTH RECLAMATION SQ YD	2215.507 HAUL FULL DEPTH RECLAMATION (LV) CU YD	2232.504 MILL BITUMINOUS SURFACE (2.0") SQ YD	2232.504 MILL BITUMINOUS SURFACE (3.0") SQ YD	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) GAL	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) TON	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) TON	2451.607 TRENCH BACKFILL (CV) CU YD	REMARKS
PALISADE CIRCLE													
1300+28 TO 1302+06			224		894	113			45		190		INCLUDES DRIVEWAYS
1301+65	LEFT											30	
PROJECT ITEM TOTALS		**0**	**224**	**0**	**894**	**113**	**0**	**0**	**45**	**0**	**190**	**30**	

DRAINAGE

C

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON EACH	2501.502 18" RC PIPE APRON EACH	2501.502 24" RC PIPE APRON EACH	2501.502 INSTALL PIPE APRON EACH	2501.503 INSTALL PIPE CULVERT LIN FT	2106.603 CONSTRUCT DRAINAGE DITCH LIN FT	2501.603 CLEAN DRAINAGE DITCH LIN FT	2502.503 4" PVC PIPE DRAIN LIN FT	2502.503 6" PERF PE PIPE DRAIN LIN FT	2502.602 6" PVC PIPE DRAIN CLEANOUT EACH	2503.503 12" RC PIPE SEWER DES 3006 LIN FT	2503.503 15" RC PIPE SEWER DES 3006 LIN FT	2503.503 18" RC PIPE SEWER DES 3006 LIN FT	2503.503 24" RC PIPE SEWER DES 3006 LIN FT	2503.602 CONNECT TO EXISTING STORM SEWER EACH	2503.602 CONNECT TO EXISTING PIPE DRAIN EACH	2503.602 BULKHEAD EACH	2503.602 12" PIPE PLUG EACH	2503.603 PLUG FILL & ABANDON PIPE SEWER LIN FT	2506.602 CONNECT TO EXISTING STRUCTURE EACH	REMARKS
PALISADE CIRCLE																						
1300+21 TO 1300+45	LEFT									53	1											
1300+21 TO 1301+89	RIGHT								41	225											1	
1301+16 TO 1301+86	LEFT									53	1										1	
1301+65	LEFT											20				1						
1301+74	RIGHT																				1	
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**41**	**331**	**2**	**20**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**3**	

STRUCTURES & CASTINGS

D

STATION TO STATION	LOCATION	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN F EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL EACH	REMARKS
PALISADE CIRCLE								
1300+28 TO 1302+06								
PROJECT ITEM TOTALS		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	

PLOT DATE: Apr 10, 2025 - 10:45am
FILENAME: K:\a-f\Duluth_City\2200800\04_Production\01_CAD\02_Sheets\1300 Palisade Cir Tabulations.dwg

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

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DULUTH, MN 55802

DULUTH PROJECT NO. 2194

PALISADE CIRCLE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 193

REMOVALS & SAWCUTS

		2104.502	2104.502	2104.502	2104.503	2104.503	2104.503	2104.503	2104.503	2104.504	2104.504	2104.504	2104.504	2104.504	2104.518	A
STATION TO STATION	LOCATION	REMOVE CASTING	REMOVE CATCH BASIN	REMOVE MANHOLE (STORM)	SAWING CONCRETE PAVEMENT (FULL DEPTH)	SAWING BITUMINOUS PAVEMENT	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	REMOVE SEWER PIPE (STORM)	REMOVE CURB & GUTTER	REMOVE PAVEMENT	REMOVE CONCRETE PAVEMENT	REMOVE BITUMINOUS PAVEMENT	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	REMOVE CONCRETE DRIVEWAY PAVEMENT	REMOVE CONCRETE WALK	REMARKS
		EACH	EACH	EACH	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ FT	
TALMADGE CIRCLE																
1401+53 TO 1401+83	LEFT						33		33							
1402+22 TO 1402+54	LEFT / RIGHT						68		68							
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**101**	**0**	**101**	**0**	**0**	**0**	**0**	**0**	**0**	

2

BITUMINOUS & AGGREGATE

		2123.510	2131.506	2211.507	2215.504	2215.507	2232.504	2232.504	2357.506	2360.509	2360.509	2451.607	B
STATION TO STATION	LOCATION	STREET SWEEPER (WITH PICKUP BROOM)	CALCIUM CHLORIDE SOLUTION	AGGREGATE BASE (CV) CLASS 5	FULL DEPTH RECLAMATION	HAUL FULL DEPTH RECLAMATION (LV)	MILL BITUMINOUS SURFACE (2.0")	MILL BITUMINOUS SURFACE (3.0")	BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY)	TYPE SP 9.5 WEARING COURSE MIX (3,B)	TYPE SP 9.5 WEARING COURSE MIX (3,C)	TRENCH BACKFILL (CV)	REMARKS
		HOUR	GALLON	CU YD	SQ YD	CU YD	SQ YD	SQ YD	GAL	TON	TON	CU YD	
TALMADGE CIRCLE													
1400+42 TO 1042+87			272		1086		0		55		228		
PROJECT ITEM TOTALS		**0**	**272**	**0**	**1086**	**0**	**0**	**0**	**55**	**0**	**228**	**0**	

DRAINAGE

		2501.502	2501.502	2501.502	2501.502	2501.503	2106.603	2501.603	2502.503	2502.503	2502.602	2503.503	2503.503	2503.503	2503.503	2503.602	2503.602	2503.602	2503.602	2503.603	2506.602	C
STATION TO STATION	LOCATION	12" RC PIPE APRON	18" RC PIPE APRON	24" RC PIPE APRON	INSTALL PIPE APRON	INSTALL PIPE CULVERT	CONSTRUCT DRAINAGE DITCH	CLEAN DRAINAGE DITCH	4" PVC PIPE DRAIN	6" PERF PE PIPE DRAIN	6" PVC PIPE DRAIN CLEANOUT	12" RC PIPE SEWER DES 3006	15" RC PIPE SEWER DES 3006	18" RC PIPE SEWER DES 3006	24" RC PIPE SEWER DES 3006	CONNECT TO EXISTING STORM SEWER	CONNECT TO EXISTING PIPE DRAIN	BULKHEAD	12" PIPE PLUG	PLUG FILL & ABANDON PIPE SEWER	CONNECT TO EXISTING STRUCTURE	REMARKS
		EACH	EACH	EACH	EACH	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EACH	LIN FT	LIN FT	LIN FT	LIN FT	EACH	EACH	EACH	EACH	LIN FT	EACH	
TALMADGE CIRCLE																						
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

STRUCTURES & CASTINGS

		2506.502	2506.502	2506.502	2506.502	2506.502	2506.502	D
STATION TO STATION	LOCATION	CONSTRUCT DRAINAGE STRUCTURE DESIGN F	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020	CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020	CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL	REMARKS
		EACH	EACH	EACH	EACH	EACH	EACH	
TALMADGE CIRCLE								
PROJECT ITEM TOTALS		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: _____ DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

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

DULUTH PROJECT NO. 2194

TALMADGE CIRCLE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 197

PLOT DATE: Apr 10, 2025 - 10:48am
FILENAME: K:\ia-fil\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\1400 Talmadge Cir Tabulations.dwg

REMOVALS & SAWCUTS

A

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING EACH	2104.502 REMOVE CATCH BASIN EACH	2104.502 REMOVE MANHOLE (STORM) EACH	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) LIN FT	2104.503 REMOVE SEWER PIPE (STORM) LIN FT	2104.503 REMOVE CURB & GUTTER LIN FT	2104.504 REMOVE PAVEMENT SQ YD	2104.504 REMOVE CONCRETE PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT SQ YD	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT SQ YD	2104.518 REMOVE CONCRETE WALK SQ FT	REMARKS
WILDBERRY CIRCLE																
1500+37 TO 1502+31	LEFT						214		214				11	21		
1501+27 TO 1501+39	RIGHT						14		14							
1502+25 TO 1502+57	RIGHT						48		48							
1502+27	LEFT		1													
1502+56	ACROSS						71									EOP SAWCUT
PROJECT ITEM TOTALS		**0**	**1**	**0**	**0**	**0**	**347**	**0**	**276**	**0**	**0**	**0**	**11**	**21**	**0**	

2

BITUMINOUS & AGGREGATE

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) HOUR	2131.506 CALCIUM CHLORIDE SOLUTION GALLON	2211.507 AGGREGATE BASE (CV) CLASS 5 CU YD	2215.504 FULL DEPTH RECLAMATION SQ YD	2215.507 HAUL FULL DEPTH RECLAMATION (LV) CU YD	2232.504 MILL BITUMINOUS SURFACE (2.0") SQ YD	2232.504 MILL BITUMINOUS SURFACE (3.0") SQ YD	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) GAL	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) TON	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) TON	2451.607 TRENCH BACKFILL (CV) CU YD	REMARKS	
WILDBERRY CRICLE														
1500+45 TO 1502+77			270		1081				55		228		INCLUDES DRIVEWAYS	
1500+90 TO 1501+58	LEFT											117	CB0560078B TO CB0560078A	
1501+58 TO 1502+27	LEFT											102	CB0560078A TO CB0560078	
1502+27 TO 1502+32	ACROSS											40	CB0560079 TO CB0560077	
PROJECT ITEM TOTALS		**0**	**270**	**0**	**1081**	**0**	**0**	**0**	**55**	**0**	**228**	**259**		

DRAINAGE

C

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON EACH	2501.502 18" RC PIPE APRON EACH	2501.502 24" RC PIPE APRON EACH	2501.502 INSTALL PIPE APRON EACH	2501.503 INSTALL PIPE CULVERT LIN FT	2106.603 CONSTRUCT DRAINAGE DITCH LIN FT	2501.603 CLEAN DRAINAGE DITCH LIN FT	2502.503 4" PVC PIPE DRAIN LIN FT	2502.503 6" PERF PE PIPE DRAIN LIN FT	2502.602 6" PVC PIPE DRAIN CLEANOUT EACH	2503.503 12" RC PIPE SEWER DES 3006 LIN FT	2503.503 15" RC PIPE SEWER DES 3006 LIN FT	2503.503 18" RC PIPE SEWER DES 3006 LIN FT	2503.503 24" RC PIPE SEWER DES 3006 LIN FT	2503.602 CONNECT TO EXISTING STORM SEWER EACH	2503.602 CONNECT TO EXISTING PIPE DRAIN EACH	2503.602 BULKHEAD EACH	2503.602 12" PIPE PLUG EACH	2503.603 PLUG FILL & ABANDON PIPE SEWER LIN FT	2506.602 CONNECT TO EXISTING STRUCTURE EACH	REMARKS
WILDBERRY CIRCLE																						
1500+90 TO 1501+58	LEFT											79										CB0560078B TO CB0560078A
1501+58 TO 1502+27	LEFT											69				2						CB0560078A TO CB0560078
1502+27 TO 1502+32	ACROSS											27										CB0560079 TO CB0560077
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**175**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	

STRUCTURES & CASTINGS

D

STATION TO STATION	LOCATION	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN F EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL EACH	REMARKS
WILDBERRY CIRCLE								
1500+90	LEFT						1	CB0560078B
1501+58	LEFT		1					CB0560078A
1502+27	LEFT		1					CB0560078
PROJECT ITEM TOTALS		**0.0**	**2.0**	**0.0**	**0.0**	**0.0**	**1.0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

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SIGNATURE: DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

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

DULUTH PROJECT NO. 2194

WILDBERRY CIRCLE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 201

PLOT DATE: Apr 10, 2025 - 10:54am
FILENAME: K:\ta-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\1500 Wildberry Cir Tabulations.dwg

REMOVALS & SAWCUTS

A

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING EACH	2104.502 REMOVE CATCH BASIN EACH	2104.502 REMOVE MANHOLE (STORM) EACH	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) LIN FT	2104.503 REMOVE SEWER PIPE (STORM) LIN FT	2104.503 REMOVE CURB & GUTTER LIN FT	2104.504 REMOVE PAVEMENT SQ YD	2104.504 REMOVE CONCRETE PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT SQ YD	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT SQ YD	2104.518 REMOVE CONCRETE WALK SQ FT	REMARKS
SILVER FOX CIRCLE																
1601+37 TO 1601+39	LEFT						2	50	2							CURB
1601+65 TO 1602+47	RIGHT						95		98							CURB
1602+46 TO 1602+57	RIGHT						29		24							CURB
1602+36 TO 1602+76	LEFT						78		85							CURB
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**203**	**50**	**210**	**0**	**0**	**0**	**0**	**0**	**0**	

BITUMINOUS & AGGREGATE

2

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) HOUR	2131.506 CALCIUM CHLORIDE SOLUTION GALLON	2211.507 AGGREGATE BASE (CV) CLASS 5 CU YD	2215.504 FULL DEPTH RECLAMATION SQ YD	2215.507 HAUL FULL DEPTH RECLAMATION (LV) CU YD	2232.504 MILL BITUMINOUS SURFACE (2.0") SQ YD	2232.504 MILL BITUMINOUS SURFACE (3.0") SQ YD	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) GAL	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) TON	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) TON	2451.607 TRENCH BACKFILL (CV) CU YD	REMARKS
SILVER FOX CRICLE													
1600+36 TO 1602+85	LEFT & RIGHT		277		1108		0				333		
PROJECT ITEM TOTALS		**0**	**277**	**0**	**1108**	**0**	**0**	**0**	**0**	**0**	**333**	**0**	

DRAINAGE

C

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON EACH	2501.502 18" RC PIPE APRON EACH	2501.502 24" RC PIPE APRON EACH	2501.502 INSTALL PIPE APRON EACH	2501.503 INSTALL PIPE CULVERT LIN FT	2106.603 CONSTRUCT DRAINAGE DITCH LIN FT	2501.603 CLEAN DRAINAGE DITCH LIN FT	2502.503 4" PVC PIPE DRAIN LIN FT	2502.503 6" PERF PE PIPE DRAIN LIN FT	2502.602 6" PVC PIPE DRAIN CLEANOUT EACH	2503.503 12" RC PIPE SEWER DES 3006 LIN FT	2503.503 15" RC PIPE SEWER DES 3006 LIN FT	2503.503 18" RC PIPE SEWER DES 3006 LIN FT	2503.503 24" RC PIPE SEWER DES 3006 LIN FT	2503.602 CONNECT TO EXISTING STORM SEWER EACH	2503.602 CONNECT TO EXISTING PIPE DRAIN EACH	2503.602 BULKHEAD EACH	2503.602 12" PIPE PLUG EACH	2503.603 PLUG FILL & ABANDON PIPE SEWER LIN FT	2506.602 CONNECT TO EXISTING STRUCTURE EACH	REMARKS
SILVER FOX CIRCLE																						
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

STRUCTURES & CASTINGS

D

STATION TO STATION	LOCATION	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN F EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48 EACH	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL EACH	REMARKS
SILVER FOX CIRCLE								
PROJECT ITEM TOTALS		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

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SIGNATURE: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

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DULUTH, MN 55802

DULUTH PROJECT NO. 2194

SILVER FOX CIRCLE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 206

PLOT DATE: Apr 10, 2025 - 10:57am
FILENAME: K:\a-f\Duluth_City\2200800\004_Production\01_CAD\02_Sheets\1600 Silver Fox Cir Tabulations.dwg

REMOVALS & SAWCUTS — A

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING (EACH)	2104.502 REMOVE CATCH BASIN (EACH)	2104.502 REMOVE MANHOLE (STORM) (EACH)	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 REMOVE SEWER PIPE (STORM) (LIN FT)	2104.503 REMOVE CURB & GUTTER (LIN FT)	2104.504 REMOVE PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT (SQ YD)	2104.518 REMOVE CONCRETE WALK (SQ FT)	REMARKS
TWIN CREEKS CIRCLE																
1700+26 TO 1701+56	RIGHT						152		148			34		12		CURB & DRIVEWAY
1700+98 TO 1701+49	LEFT						50		50			11				CURB
1701+32	RIGHT							11								CB0560089 OUTLET
1702+70 TO 1703+41	LEFT						89		94			20	9	19		CURB & DRIVEWAY (X3)
1703+20 TO 1703+29	RIGHT						7		6			1				CURB
1703+57 TO 1703+77	LEFT						25		26			6	3	9		CURB & DRIVEWAY
1704+76 TO 1704+86	RIGHT						16		14			3				CURB
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**339**	**11**	**338**	**0**	**0**	**76**	**12**	**39**	**0**	

BITUMINOUS & AGGREGATE — B

2

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) (HOUR)	2131.506 CALCIUM CHLORIDE SOLUTION (GALLON)	2211.507 AGGREGATE BASE (CV) CLASS 5 (CU YD)	2215.504 FULL DEPTH RECLAMATION (SQ YD)	2215.507 HAUL FULL DEPTH RECLAMATION (LV) (CU YD)	2232.504 MILL BITUMINOUS SURFACE (2.0") (SQ YD)	2232.504 MILL BITUMINOUS SURFACE (3.0") (SQ YD)	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) (GAL)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) (TON)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) (TON)	2451.607 TRENCH BACKFILL (CV) (CU YD)	REMARKS
TWIN CREEKS CRICLE													
1700+26 TO 1704+86			402		1607						389		INCLUDES DRIVEWAYS
1701+32	RIGHT											16	CB0560089, ST-APRON 2
PROJECT ITEM TOTALS		**0**	**402**	**0**	**1607**	**0**	**0**	**0**	**0**	**0**	**389**	**16**	

DRAINAGE — C

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON (EACH)	2501.502 18" RC PIPE APRON (EACH)	2501.502 24" RC PIPE APRON (EACH)	2501.502 INSTALL PIPE APRON (EACH)	2501.503 INSTALL PIPE CULVERT (LIN FT)	2106.603 CONSTRUCT DRAINAGE DITCH (LIN FT)	2501.603 CLEAN DRAINAGE DITCH (LIN FT)	2502.503 4" PVC PIPE DRAIN (LIN FT)	2502.503 6" PERF PE PIPE DRAIN (LIN FT)	2502.602 6" PVC PIPE DRAIN CLEANOUT (EACH)	2503.503 12" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 15" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 18" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 24" RC PIPE SEWER DES 3006 (LIN FT)	2503.602 CONNECT TO EXISTING STORM SEWER (EACH)	2503.602 CONNECT TO EXISTING PIPE DRAIN (EACH)	2503.602 BULKHEAD (EACH)	2503.602 12" PIPE PLUG (EACH)	2503.603 PLUG FILL & ABANDON PIPE SEWER (LIN FT)	2506.602 CONNECT TO EXISTING STRUCTURE (EACH)	REMARKS
TWIN CREEKS CIRCLE																						
1701+32	RIGHT	1					20					11									1	CB0560089, ST-APRON 2
PROJECT ITEM TOTALS		**1**	**0**	**0**	**0**	**0**	**20**	**0**	**0**	**0**	**0**	**11**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	

STRUCTURES & CASTINGS — D

STATION TO STATION	LOCATION	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN F (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL (EACH)	REMARKS
TWIN CREEKS CIRCLE								
PROJECT ITEM TOTALS		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

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SIGNATURE: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

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

DULUTH PROJECT NO. 2194

TWIN CREEKS CIRCLE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 210

PLOT DATE: Apr 10, 2025 - 11:02am
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\1700 Twin Creeks Cir Tabulations.dwg

REMOVALS & SAWCUTS

A

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING EACH	2104.502 REMOVE CATCH BASIN EACH	2104.502 REMOVE MANHOLE (STORM) EACH	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT LIN FT	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) LIN FT	2104.503 REMOVE SEWER PIPE (STORM) LIN FT	2104.503 REMOVE CURB & GUTTER LIN FT	2104.504 REMOVE PAVEMENT SQ YD	2104.504 REMOVE CONCRETE PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS PAVEMENT SQ YD	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT SQ YD	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT SQ YD	2104.518 REMOVE CONCRETE WALK SQ FT	REMARKS
STANFORD AVENUE																
2100+58	ACROSS						25									SAWCUT: START
2101+38 TO 2101+57	LEFT						16						13			DRIVEWAY
2102+08 TO 2102+26	LEFT						12						11			DRIVEWAY
2103+45 TO 2103+73	LEFT						24						0			SAWCUT: WREN DR
2104+13 TO 2104+34	LEFT						10						18			DRIVEWAY
2104+88 TO 2105+13	LEFT						16						29			DRIVEWAY
2106+13 TO 2106+40	LEFT						18						24			DRIVEWAY
2107+32 TO 2107+58	LEFT						14						13			DRIVEWAY
2108+70 TO 2109+21	LEFT						43						54			DRIVEWAY
2109+76 TO 2109+93	LEFT						12						15			DRIVEWAY
2112+29 TO 2112+57	LEFT						15						20			DRIVEWAY
2114+48 TO 2114+74	LEFT						19						27			DRIVEWAY
2115+35 TO 2115+70	LEFT						25						34			DRIVEWAY
2116+55 TO 2116+89	LEFT						34						0			SAWCUT: W RAINBOW ST
2117+75 TO 2118+12	LEFT						29						32			DRIVEWAY
2118+60 TO 2119+08	LEFT						25						38			DRIVEWAY
2119+80 TO 2120+10	LEFT						30						0			SAWCUT: W MORGAN ST
2120+74 TO 2120+97	LEFT						13						19			DRIVEWAY
2121+15 TO 2121+37	LEFT						11						15			DRIVEWAY
2126+64	ACROSS						70						0			SAWCUT: END
2102+09 TO 2102+25	RIGHT						12						18			DRIVEWAY
2102+93 TO 2103+22	RIGHT						16						23			DRIVEWAY
2108+08 TO 2108+40	RIGHT						19						26			DRIVEWAY
2109+28 TO 2109+52	RIGHT						16						18			DRIVEWAY
2110+11 TO 2110+41	RIGHT						21						27			DRIVEWAY
2110+62 TO 2110+83	RIGHT						21						24			DRIVEWAY
2112+21 TO 2112+77	RIGHT						41						52			DRIVEWAY X2
2113+90 TO 2114+20	RIGHT						19						20			DRIVEWAY
2115+47 TO 2115+72	RIGHT						21						28			DRIVEWAY
2115+89 TO 2116+17	RIGHT						20						16			DRIVEWAY
2116+84 TO 2117+13	RIGHT						18						16			DRIVEWAY
2117+75 TO 2117+99	RIGHT						14						15			DRIVEWAY
2119+35 TO 2119+65	RIGHT						20						22			DRIVEWAY
2120+23 TO 2120+55	RIGHT						16						21			DRIVEWAY
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**737**	**0**	**0**	**0**	**0**	**0**	**687**	**0**	**0**	

BITUMINOUS & AGGREGATE

2

B

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) HOUR	2131.506 CALCIUM CHLORIDE SOLUTION GALLON	2211.507 AGGREGATE BASE (CV) CLASS 5 CU YD	2215.504 FULL DEPTH RECLAMATION SQ YD	2215.507 HAUL FULL DEPTH RECLAMATION (LV) CU YD	2232.504 MILL BITUMINOUS SURFACE (2.0") SQ YD	2232.504 MILL BITUMINOUS SURFACE (3.0") SQ YD	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) GAL	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) TON	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) TON	2451.607 TRENCH BACKFILL (CV) CU YD	REMARKS
STANFORD AVENUE													
2100+58 TO 2120+55			1820		7278				364		1529		
PROJECT ITEM TOTALS		**0**	**1820**	**0**	**7278**	**0**	**0**	**0**	**364**	**0**	**1529**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENUDM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: _____ DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA®

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

DULUTH PROJECT NO. 2194

STANFORD AVENUE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 214

PLOT DATE: Apr 10, 2025 - 11:06am
FILENAME: K:\ta-f\Duluth_City\2200800\04_Production\01_CAD\02_Sheets\2100 Stanford Ave Tabulations.dwg

REMOVALS & SAWCUTS

STATION TO STATION	LOCATION	2104.502 REMOVE CASTING (EACH)	2104.502 REMOVE CATCH BASIN (EACH)	2104.502 REMOVE MANHOLE (STORM) (EACH)	2104.503 SAWING CONCRETE PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (LIN FT)	2104.503 SAWING BITUMINOUS PAVEMENT (FULL DEPTH) (LIN FT)	2104.503 REMOVE SEWER PIPE (STORM) (LIN FT)	2104.503 REMOVE CURB & GUTTER (LIN FT)	2104.504 REMOVE PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS PAVEMENT (SQ YD)	2104.504 REMOVE BITUMINOUS DRIVEWAY PAVEMENT (SQ YD)	2104.504 REMOVE CONCRETE DRIVEWAY PAVEMENT (SQ YD)	2104.518 REMOVE CONCRETE WALK (SQ FT)	A REMARKS
WEST OLIVE STREET																
2200+11	ACROSS						63									BOP SAWCUT
2201+10 TO 2201+46	LEFT						36									SAWCUT DRIVEWAY: 129
2201+27 TO 2201+58	RIGHT						32									SAWCUT DRIVEWAY:
2201+92 TO 2202+19	LEFT						27									SAWCUT DRIVEWAY: 121
2204+13 TO 2204+23	LEFT						10									SAWCUT DRIVEWAY: 1603
2205+30 TO 2205+54	RIGHT						25									SAWCUT: BASSWOOD
2205+30 TO 2205+56	LEFT						25									SAWCUT: BASSWOOD
2206+23 TO 2206+46	RIGHT						11									SAWCUT DRIVEWAY: 1522
2206+26 TO 2206+37	LEFT											8				REMOVE BIT WALKWAY
2206+78 TO 2207+09	LEFT						30									SAWCUT DRIVEWAY: 31
2206+84 TO 2207+18	RIGHT						35									SAWCUT DRIVEWAY: 1522
2209+26 TO 2209+49	LEFT						24									SAWCUT DRIVEWAY:16
2212+98	ACROSS						52									EOP SAWCUT
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**370**	**0**	**0**	**0**	**0**	**8**	**0**	**0**	**0**	

2

BITUMINOUS & AGGREGATE

STATION TO STATION	LOCATION	2123.510 STREET SWEEPER (WITH PICKUP BROOM) (HOUR)	2131.506 CALCIUM CHLORIDE SOLUTION (GALLON)	2211.507 AGGREGATE BASE (CV) CLASS 5 (CU YD)	2215.504 FULL DEPTH RECLAMATION (SQ YD)	2215.507 HAUL FULL DEPTH RECLAMATION (LV) (CU YD)	2232.504 MILL BITUMINOUS SURFACE (2.0") (SQ YD)	2232.504 MILL BITUMINOUS SURFACE (3.0") (SQ YD)	2357.506 BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY) (GAL)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,B) (TON)	2360.509 TYPE SP 9.5 WEARING COURSE MIX (3,C) (TON)	2451.607 TRENCH BACKFILL (CV) (CU YD)	B REMARKS
WEST OLIVE STREET													
2200+11 TO 2212+98			915		3679	465			184		883		INCLUDES DRIVEWAYS
PROJECT ITEM TOTALS		**0**	**915**	**0**	**3679**	**465**	**0**	**0**	**184**	**0**	**883**	**0**	

DRAINAGE

STATION TO STATION	LOCATION	2501.502 12" RC PIPE APRON (EACH)	2501.502 18" RC PIPE APRON (EACH)	2501.502 24" RC PIPE APRON (EACH)	2501.502 INSTALL PIPE APRON (EACH)	2501.503 INSTALL PIPE CULVERT (LIN FT)	2106.603 CONSTRUCT DRAINAGE DITCH (LIN FT)	2501.603 CLEAN DRAINAGE DITCH (LIN FT)	2502.503 4" PVC PIPE DRAIN (LIN FT)	2502.503 6" PERF PE PIPE DRAIN (LIN FT)	2502.602 6" PVC PIPE DRAIN CLEANOUT (EACH)	2503.503 12" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 15" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 18" RC PIPE SEWER DES 3006 (LIN FT)	2503.503 24" RC PIPE SEWER DES 3006 (LIN FT)	2503.602 CONNECT TO EXISTING STORM SEWER (EACH)	2503.602 CONNECT TO EXISTING PIPE DRAIN (EACH)	2503.602 BULKHEAD (EACH)	2503.602 12" PIPE PLUG (EACH)	2503.603 PLUG FILL & ABANDON PIPE SEWER (LIN FT)	2506.602 CONNECT TO EXISTING STRUCTURE (EACH)	C REMARKS
WEST OLIVE STREET																						
2203+19 TO 2205+23	LEFT							215														
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**215**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

STRUCTURES & CASTINGS

STATION TO STATION	LOCATION	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN F (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48 (EACH)	2506.502 CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL (EACH)	D REMARKS
WEST OLIVE STREET								
2200+11 TO 2211+98								
PROJECT ITEM TOTALS		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/10/25	ERM	ADDENDUM 2 - REMOVE ITEM 2123.510 MOTOR GRADER, ADJUST QTYS
1	4/7/25	ERM	ADDENDUM 1 - REISSUE PLAN SET

DESIGNED EM/AB/TK
DRAWN AS/RK/IR/MG/DA
CHECKED LP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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: Emily R. Major DATE: 3/27/25
NAME: EMILY R. MAJOR LIC. NO.: 52201

TKDA®

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

DULUTH PROJECT NO. 2194

OLIVE STREET TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 221

PLOT DATE: Apr 10, 2025 - 11:15am
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\2200 Olive St Tabulations.dwg