Purchasing Division
Finance Department

Room 120
411 West First Street
Duluth, Minnesota 55802

218-730-5340
purchasing@duluthmn.gov

Addendum 3
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:
   - Revised Items:
     - 2573.602 EROSION CONTROL MOBILIZATION – changed to “Lump Sum”
   - Added Items:
     - 2575.602 SITE RESTORATION EACH
   - Renumbered Line Item numbers
   - Revised total quantities.
   - Clarified column headings.

2. CHANGES TO DRAWING:

   a. REISSUE THE FOLLOWING PLAN SHEETS:
      i. SHEET 2 – STATEMENT OF ESTIMATED QUANTITIES NOTES
      ii. SHEET 3 – STATEMENT OF ESTIMATED QUANTITIES PART 1
      iii. SHEET 4 – STATEMENT OF ESTIMATED QUANTITIES PART 2
      iv. SHEET 5 – STATEMENT OF ESTIMATED QUANTITIES PART 3
      v. SHEET 6 – STATEMENT OF ESTIMATED QUANTITIES PART 4
      vi. SHEET 8 – STREET INDEX
      vii. SHEET 38 – FALCON STREET TABULATIONS
      viii. SHEET 45 – 86TH AVE W TABULATIONS
      ix. SHEET 49 – EDWARD STREET TABULATIONS
      x. SHEET 61 – ANDERSON ROAD TABULATIONS
      xi. SHEET 69 – CLIFF AVENUE & PLUM STREET TABULATIONS
      xii. SHEET 79 – HIGH STREET & TRIGGS AVENUE TABULATIONS
      xiii. SHEET 90 – BAYLIS STREET TABULATIONS
      xiv. SHEET 94 – HIGH STREET 2 TABULATIONS
      xv. SHEET 101 – LONDON ROAD TABULATIONS
      xvi. SHEET 120 – 57TH AVENUE TABULATIONS

xvii. SHEET 128 – 1ST STREET ALLEY TABULATIONS
xviii. SHEET 136 – CLYDE AVENUE TABULATIONS
xix. SHEET 143 – MAPLE GROVE ROAD TABULATIONS
xx. SHEET 149 – OBSERVATION ROAD TABULATIONS
xxi. SHEET 157 – BERKLEY ROAD TABULATIONS
xxii. SHEET 161 – PALISADE DRIVE TABULATIONS
xxiii. SHEET 169 – PARKWOOD LANE TABULATIONS
xxiv. SHEET 176 – PORTAGE DRIVE TABULATIONS
xxv. SHEET 181 – KARL AVENUE TABULATIONS
xxvi. SHEET 185 – ASBURY DRIVE TABULATIONS
xxvii. SHEET 190 – ECHO LANE TABULATIONS
xxviii. SHEET 194 – PALISADE CIRCLE TABULATIONS
xxix. SHEET 198 – TALMADGE CIRCLE TABULATIONS
xxx. SHEET 202 – WILDBERRY CIRCLE TABULATIONS
xxxi. SHEET 207 – SILVER FOX CIRCLE TABULATIONS
xxxii. SHEET 211 – TWIN CREEKS CIRCLE TABULATIONS
xxxiii. SHEET 215 – STANFORD AVENUE TABULATIONS
xxxiv. SHEET 222 – OLIVE STREET TABULATIONS

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

Posted: **April 14, 2025**

STATEMENT OF ESTIMATED QUANTITIES NOTES

1. SAWING OF CONCRETE SIDEWALKS FOR REMOVAL IS INCIDENTAL.
2. LATERAL SAWCUTTING ON CONCRETE CURB AND GUTTER FOR REMOVAL IS INCIDENTAL. LONGITUDINAL SAWCUTTING IS PAID FOR WITH SAWING CONCRETE PAVEMENT (FULL DEPTH) OR SAWING BIT PAVEMENT (FULL DEPTH). ALL LATERAL AND LONGITUDINAL SAWCUTTING SHALL BE DONE BEFORE THE REMOVAL PROCESS BEGINS.
3. REMOVE PAVEMENT INCLUDES ALL IN-PLACE COMPOSITE PAVEMENT. ANY COMBINATION OF DEPTHS. SEE IN-PLACE TYPICAL SECTIONS ON EXISTING CONCRETE STREETS.
4. SEE CONSTRUCTION DETAIL 5.
5. CALCIUM CHLORIDE QUANTITIES ARE COMPUTED USING AN APPLICATION RATE OF 0.25 GAL/SQ YD.
6. DEPTH OF RECLAMATION ON ALL STREETS IS EIGHT (8) INCHES. VERIFY DEPTH OF EACH STREET WITH ENGINEER BEFORE STARTING OPERATION.
7. ON RECLAMATION STREETS, IN ACCORDANCE WITH CITY OF DULUTH AND MNDOT SPECIFICATIONS FOR CONSTRUCTION, THE UNIT PRICE FOR 2215.504 FULL DEPTH RECLAMATION (SY) SHALL INCLUDE SPREADING, WATERING, COMPACTING, SHAPING, REPAIRING EROSION DAMAGE FORM ANY RAIN EVENT, AND MAINTAINING THE BLENDED RECLAIM MATERIAL TO THE SPECIFIED PROFILE AND CROSS SECTION UNTIL FINAL PAVING. SEE SPECIAL PROVISIONS AND MNDOT SPEC 2215.
8. FOR THE PAY ITEM HAUL FULL DEPTH RECLAMATION, EXCESS RECLAIM CAN BE HAULED TO THE FOLLOWING LOCATIONS:
   - 8.1. 3527 RILEY ROAD - 1000 CU YD, CONTACT ROSS YOUNG AT (218) 591-1237 OR CHRIS MOE AT (218) 387-7512 723; KENWOOD AVE - 300 CU YD, CONTACT ROSS YOUNG AT (218) 591-1237 OR CHRIS MOE AT (218) 387-7512; 105 N 40TH AVE WEST- 500 CU YD, CONTACT BRUCE KELLERHUIS AT (218) 591-0317.
   - 8.2. THE CONTRACTOR SHALL COORDINATE WITH ENGINEER AND SITE MANAGER FOR EACH LOCATION. ADDITIONAL CONTACT FOR ALL SITES IS GEOFF VUKELICH AT (218) 591-1237.
9. BITUMINOUS TONNAGE COMPUTED AT 120 LBS/SQ YD/INCH OF THICKNESS. CALCULATIONS FOR TACK APPLICATION RATE WERE COMPUTED USING 0.05 GALLONS/SQ YD EXCEPT FOR 88TH AVE W AND IDAHO ST IN MORGAN PARK WHERE A TACK RATE OF 0.10 GALLONS/SQ YD WAS USED. THE TACK RATE IN MORGAN PARK IS REQUIRED DUE TO NON-CONFORMING CONCRETE BASE (POROUS).
10. ALL VALVE BOX ADJUSTMENTS SHALL BE PAID FOR UNDER ADJUST VALVE BOX REGARDLESS OF TYPE OF UTILITY (WATER, GAS, OR SANITARY).
11. PAY HEIGHT FOR RECONSTRUCT DRAINAGE STRUCTURE (LIN FT) IS MEASURED FROM TOP OF CASTING TO BOTTOM OF THE RECONSTRUCTION MINUS ONE (1) LIN FT PAY HEIGHT FOR ANY OF THE FOLLOWING ITEMS PAID AT THE SAME LOCATION: CONCRETE ENCASED CASTING COLLAR (EACH), CASTING ASSEMBLY (EACH), OR ADJUST FRAME AND RING CASTING (EACH). RECONSTRUCT DRAINAGE STRUCTURE INCLUDES COST OF REMOVING CASTING. SEE MNDOT 2506.5 (2)
12. INCLUDES PIPE TO PIPE CONNECTIONS.
13. INCLUDES CONNECTING TO ANY IN-PLACE MANHOLE OR CATCH BASIN.
14. INCLUDES 4" AGGREGATE BASE CLASS 5 (MNDOT SPEC. 2211). SEE DETAILS.
15. INCLUDES 6" AGGREGATE BASE CLASS 5 (MNDOT SPEC. 2211). SEE DETAILS.
16. WORK INCLUDES THE FOOTING ON THE RIGHT-OF-WAY SIDE OF WALK. SEE DETAIL ON 3RD STREET TYPICAL SECTION.
17. SEE MNDOT STANDARD PLAN 5-297.254 - DRIVEWAY AND SIDEWALK DETAILS.
18. INCLUDES 12" AGGREGATE BASE CLASS 5 (MNDOT SPEC. 2211). SEE DETAILS.
19. SITE RESTORATION (EA) PERTAINS TO EACH ROADWAY SEGMENT. SITE RESTORATION INCLUDES 4" BOULEVARD TOPSOIL BORROW AND ALL TURF RESTORATION ITEMS INCLUDING BUT NOT LIMITED TO: TYPE 3 FERTILIZER, 25-131 SEED MIX AND ROLLED EROSION PREVENTION CATEGORY 20 BLANKET ON ALL AREAS INDICATED ON PLAN AND DETAILS. SQUARE FOOT AREA FOR SITE RESTORATION WILL BE LISTED UNDER THE NOTES SECTION OF THE TAB FOR EACH STREET FOR THE CONTRACTORS USE. ANY OVER RUN OR UNDER RUN WILL BE VERIFIED WITH SURVEY AT REQUEST OF CONTRACTOR OR CITY AND PAID APPROPRIATELY. SEE MNDOT SPECIAL PROVISIONS FOR EACH INDIVIDUAL PAY ITEM. IF SEEDING PAST SEPTEMBER 20TH, CONSULT ENGINEER FOR APPROPRIATE SEED MIX FOR DORMANT SEEDING. (2)
20. CASTING ASSEMBLY (EA) INCLUDES ADJUSTMENTS OF CASTING. MEASUREMENT IS BY NUMBER OF CASTINGS PROVIDED AND INSTALLED. SEE MNDOT 2506.4C.
21. CONCRETE ENCASED VALVE BOX (EACH: IF VALVE IS DAMAGED AND PARTS ARE REQUIRED TO COMPLETE THE WORK, AN INVOICE FOR PARTS PLUS SHIPPING WILL BE REQUIRED AS WELL AS RECORDS OF LOCATION OF WORK. THE TOTAL AMOUNT ON THE INVOICE WILL BE MULTIPLIED BY 2.5 TO GET A TOTAL CHANGE ORDER AMOUNT.
22. CURB TYPES VARY. CURB WILL BE PAID AS B624 FOR ALL DESIGN B CURB REGARDLESS OF CURB PAN WIDTH. CURB WILL BE PAID AS S424 CURB FOR ALL S OR DRIVE OVER STYLE CURB REGARDLESS OF CURB PAN WIDTH.
23. CONTRACTOR SHALL BE REQUIRED TO COORDINATE CONSTRUCTION SCHEDULES WITH CONTRACTORS FOR OTHER CITY PROJECTS DOING WORK WITHIN THE SAME WORK AREAS. EXPECTED AREAS OF COORDINATION ARE 57TH AVENUE (LEAD SERVICE LINE REPLACEMENTS AND STORM WATER POND PROJECT) AND LONDON ROAD (WATERMAIN REPLACEMENT).

MnDOT STANDARD PLATES	
THE FOLLOWING STANDARD PLATES SHALL APPLY ON THIS PROJECT	
PLATE NO.	DESCRIPTION
3000M	REINFORCED CONCRETE PIPE
3006H	GASKET JOINT FOR R.C. PIPE
4006L	MANHOLE OR CATCH BASIN
4024A	48" DIA. PRECAST SHALLOW DEPTH CATCH BASIN
4132G	CATCH BASIN FRAME CASTING
4154B	CATCH BASIN GRATE CASTING
7000E	INTEGRANT CURBS
7038A	DETECTABLE WARNING SURFACE
7100H	CONCRETE CURB AND GUTTER - DESIGN B AND DESIGN V
7111J	INSTALLATION OF CATCH BASIN CASTINGS
8000K	TEMPORARY CHANNELIZERS

CITY OF DULUTH STANDARD DETAILS	
THE FOLLOWING STANDARD DETAILS SHALL APPLY ON THIS PROJECT	
DETAIL NO.	DESCRIPTION
EX-3	PVC AND CORRUGATED POLYETHYLENE SEWER PIPE BEDDING
EX-4	CONCRETE STORM SEWER BEDDING
STR-3	4" OR 6" CONCRETE WALK WITH CONCRETE CURB DESIGN V8 (MODIFIED)
STR-11	SILL CURB TYPE B624 (SPECIAL)
STRM-1	STORM MANHOLE CASTING
STRM-3	CATCH BASIN CASTINGS
STRM-5	STORM MANHOLE NON-PAVED AREAS
STRM-5A	CONCRETE ENCASED CASTING COLLAR FOR STORM MH IN ROADWAY, WALKS, & DRIVES
STRM-7	GUTTER STAMP
SUR-1	SURVEY MONUMENT
SUR-2	CONCRETE ENCASED CASTING COLLAR IN ROADWAY
T-2	SIGN & BREAKAWAY MOUNT INSTALLATION
T-3	STREET NAME SIGN FOOTING DETAIL
W-19	CONCRETE ENCASED VALVE BOX COLLAR IN ROADWAY

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISED NOTE 19
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 NOTES

TKDA PROJ. NO. 22008.000
DRAWING NO. 2

PLOT DATE: Apr 11, 2025 - 4:24pm
FILENAME: K:\a-f\Duluth_City\2200800\04_Production\01_CAD\02_Sheets\Statement of Estimated Quantities.dwg

STATEMENT OF ESTIMATED QUANTITIES PART 1

						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	TOTAL ESTIMATED QUANTITIES	FALCON STREET	86TH AVENUE WEST	EDWARD STREET	ANDERSON ROAD	CLIFF AVENUE & PLUM ST	HIGH ST & TRIGGS AVE	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	1	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	87		1	13	32	6	2	3		11			2		11
3		2104.502	REMOVE CATCH BASIN	EACH	31		1		3	2	1		3	2	3		3		1
4		2104.502	REMOVE MANHOLE (STORM)	EACH	8				3	1					3		1		
5	1, 2	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	4631	151	65	721	137	133	126			714	627	183			5
6	1, 2	2104.503	SAWING BITUMINOUS PAVEMENT	LIN FT	45		45												
7	1, 2	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	20836	468		111	2489	3290	1640	282	200	831	5		127	639	427
8		2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	1357		48	8	192	16			84		426		199		
9		2104.503	REMOVE CURB & GUTTER	LIN FT	18725	446	62	708	1843	2814	1298	202	67	1321	176	27	20	382	140
10	3	2104.504	REMOVE PAVEMENT	SQ YD	803											803			
11		2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	1844					130				489	1173				
12		2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	3650	108				998	650	107		222	62				
13		2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	1212	47			80				64	31					
14		2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	1102	40	5	12	158		120			255				16	
15		2104.518	REMOVE CONCRETE WALK	SQ FT	16133	2372	715	4388						8002	332		289		8
16		2105.607	COMMON BORROW (LV)	CU YD	100					100									
17		2106.603	CONSTRUCT DRAINAGE DITCH	LIN FT	50				10								20		
18		2105.607	COMMON EXCAVATION	CU YD	100						100								
19		2123.510	STREET SWEEPER (WITH PICKUP BROOM)	HOUR	25														
20	5	2131.506	CALCIUM CHLORIDE SOLUTION	GALLON	12724														
21		2211.507	AGGREGATE BASE (CV) CLASS 5	CU YD	280						51					229			
22	7	2215.504	FULL DEPTH RECLAMATION	SQ YD	50917														
23	8	2215.507	HAUL FULL DEPTH RECLAMATION (LV)	CU YD	3170														
24	9	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	52500	2334	1306	3400	17590	6470	4511	547		14312		2030			
25	9	2232.504	MILL BITUMINOUS SURFACE (3.0")	SQ YD	954								954						
26		2301.502	DOWEL BAR	EACH	1330										1330				
27		2301.602	DRILL & GROUT DOWEL BAR (EPOXY COATED)	EACH	1051										1051				
28		2301.602	DRILL & GROUT REINF BAR (EPOXY COATED)	EACH	279										279				
29		2357.506	BITUMINOUS MATERIAL FOR TACK COAT (.05 GAL/SY)	GAL	6529	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	11213	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	11845			12											
32		2411.607	CONCRETE STEPS	CU YD	5		5												
33		2451.607	TRENCH BACKFILL (CV)	CU YD	2537		71		273	24			124		985	290	79		
34		2501.502	12" RC PIPE APRON	EACH	4				1										
35		2501.502	18" RC PIPE APRON	EACH	3				1								2		
36		2501.502	24" RC PIPE APRON	EACH	1										1				
37		2501.502	INSTALL PIPE APRON	EACH	3														
38		2501.503	INSTALL PIPE CULVERT	LIN FT	16														
39		2501.603	CLEAN DRAINAGE DITCH	LIN FT	1320														
40		2502.503	6" PERF PE PIPE DRAIN	LIN FT	4540														
41		2502.602	6" PVC PIPE DRAIN CLEANOUT	LIN FT	16														
42		2503.503	12" RC PIPE SEWER DES 3006	LIN FT	1208		48	8	117	16			84		162	245	53		
43		2503.503	15" RC PIPE SEWER DES 3006	LIN FT	12														
44		2503.503	18" RC PIPE SEWER DES 3006	LIN FT	490				67						299		124		
45		2503.503	24" RC PIPE SEWER DES 3006	LIN FT	96										96				

NO.	DATE	BY	DESCRIPTION OF REVISIONS
3	4/14/25	ERM	ADDENDUM 3 - RESIZE TABLE, REVISE COLUMN HEADINGS
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

2

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 1

TKDA PROJ. NO. 22008.000
DRAWING NO. 3

PLOT DATE: Apr 11, 2025 - 10:32pm
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\Statement of Estimated Quantities.dwg

STATEMENT OF ESTIMATED QUANTITIES PART 2

						MILL & OVERLAY									REPLACE	MULTIPLE	OVERLAY		
CONSTRUCTION METHOD						100	200	300	1900	2400	2500	2600	2700	2800	500	1800	400	2000	2300
ALIGNMENT START STATION						FALCON STREET	86TH AVENUE WEST	EDWARD STREET	ANDERSON ROAD	CLIFF AVENUE & PLUM ST	HIGH ST & TRIGGS AVE	BAYLIS STREET	HIGH STREET (2)	LONDON ROAD	57TH AVENUE	1ST STREET ALLEY	CLYDE AVENUE	MAPLE GROVE ROAD	OBSERVATION ROAD
LINE ITEM NO.	NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITIES														
46	12, 13	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	33		1		5	2			1		4	2	1		
47		2503.602	CONNECT TO EXISTING PIPE DRAIN	EACH	1														1
48		2503.602	BULKHEAD	EACH	1										1				
49		2503.602	12" PIPE PLUG	EACH	1										1				
50		2503.603	PLUG FILL & ABANDON PIPE SEWER	LIN FT	115										115				
51		2504.602	ADJUST CURB BOX	EACH	2														
52		2504.602	ADJUST CURB STOP	EACH	10	1	2	7											
53	10	2504.602	ADJUST VALVE BOX	EACH	65	6		7	7				1	11					
54		2504.602	ADJUST VALVE BOX (SPECIAL)	EACH	16													16	
55	24	2504.602	CONCRETE ENCASED VALVE BOX COLLAR	EACH	34														
56		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN F	EACH	5										3	2			
57		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	EACH	30				3	1						2	1		
58		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020	EACH	3										2				
59		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020	EACH	1										1				
60		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48	EACH	1												1		
61		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL	EACH	35				3	2	2		3	2	5	3	2		1
62	20	2506.502	CASTING ASSEMBLY	EACH	84		1	13	30	6	2	3		11			2		11
63		2506.502	ADJUST FRAME & RING CASTING	EACH	95	1	4	9	11	2	4			8		2			
64		2506.502	ADJUST FRAME & RING CASTING (SPECIAL)	EACH	27													25	2
65		2506.502	REPAIR DRAINAGE STRUCTURE	EACH	2														
66	13	2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LIN FT	140	3	3	9	32	6	9		6	12			3		11
67		2506.602	CONNECT TO EXISTING STRUCTURE	EACH	18				2										
68		2506.602	CONCRETE ENCASED CASTING COLLAR	EACH	141	3	1	9	32	6	9		6	12			3		11
69	14	2521.518	4" CONCRETE WALK	SQ FT	15162	1922	715	4199						8002			289		8
70	15, 17	2521.518	6" CONCRETE WALK	SQ FT	971	450		189							332				
71	22	2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	14821	446	62	708	1843	604	84			1321	176	27		382	140
72	22	2531.503	CONCRETE CURB & GUTTER DESIGN S424	LIN FT	4679					2210	1376	203	622			268			
73		2531.503	CONCRETE CURB DESIGN V6	LIN FT	60	44		16											
74	18	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	3301	40	5	12	158	485	428	107	68	255	1173	29		16	
75	17	2531.618	TRUNCATED DOMES	SQ FT	220	108		112											
76		2540.602	CONSTRUCT SURVEY MONUMENT	EACH	1													1	
77		2557.602	INSTALL VEHICULAR GATE	EACH	1										1				
78		2563.601	TRAFFIC CONTROL	LUMP SUM	1	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	45	6										3	4	12	2
80		2573.502	CULVERT END CONTROLS	EACH	1												1		
81	19	2573.602	EROSION CONTROL MOBILIZATION	LUMP SUM	1	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
82	19	2575.602	SITE RESTORATION △3	EACH	28	1	1	1	1	1	1	1	1	1	1	1	1	1	1
83		2582.503	4" SOLID LINE PAINT	LIN FT	10710														10710
84		2582.503	12" SOLID LINE PAINT	LIN FT	12	12													
85		2582.503	24" SOLID LINE PAINT	LIN FT	28														28
86		2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	10230	89			4525									89	5527
87		2582.503	4" SOLID LINE MULTI COMP GR IN (WR)	LIN FT	11156									11156					
88		2582.503	4" BROKEN LINE MULTI COMP GR IN (WR)	LIN FT	498									498					
89		2582.518	4" DOTTED LINE MULTI COMP GR IN (WR)	LIN FT	44									44					
90		2582.518	PAVT MSSG MULTI COMP GR IN (WR)	SQ FT	560									560					
91		2582.518	CROSSWALK PAINT	SQ FT	24	24													
92		2582.518	CROSSWALK MULTI COMP GR IN (WR)	SQ FT	240									240					

△2

NO.	DATE	BY	DESCRIPTION OF REVISIONS
	4/14/25	ERM	ADDENDUM 3 - ADD ITEM 2575.602 SITE RESTORATION
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 2

TKDA PROJ. NO. 22008.000
DRAWING NO. 4

PLOT DATE: Apr 11, 2025 - 10:32pm
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\Statement of Estimated 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 & HANFORD AVE	PORTAGE DR & PORTAGE CIRCLE	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	2537	95	40	79	82	9	58	22	30		259		16		
34		2501.502	12" RC PIPE APRON	EACH	4		1				1						1		
35		2501.502	18" RC PIPE APRON	EACH	3														
36		2501.502	24" RC PIPE APRON	EACH	1														
37		2501.502	INSTALL PIPE APRON	EACH	3			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	1208	64	27	67	69		27	15	20		175		11		
43		2503.503	15" RC PIPE SEWER DES 3006	LIN FT	12						12								
44		2503.503	18" RC PIPE SEWER DES 3006	LIN FT	490														
45		2503.503	24" RC PIPE SEWER DES 3006	LIN FT	96														

NO.	DATE	BY	DESCRIPTION OF REVISIONS
3	4/14/25	ERM	ADDENDUM 3 - RESIZE TABLE, REVISE COLUMN HEADINGS
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 3

TKDA PROJ. NO. 22008.000

DRAWING NO. 5

PLOT DATE: Apr 11, 2025 - 10:32pm
FILENAME: K:\1a-fDuluth_City\22008000\04_Production\01_CAD\02_Sheets\Statement of Estimated Quantities.dwg

STATEMENT OF ESTIMATED QUANTITIES PART 4

			CONSTRUCTION METHOD			RECLAIM														
			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 & HANFORD AVE [3]	PORTAGE DR & PORTAGE CIRCLE	KARL AVENUE	ASBURY DRIVE	ECHO LANE	PALISADE CIRCLE	TALMADGE CIRCLE	WILDBERRY CIRCLE	SILVER FOX CIRCLE	TWIN CREEKS CIRCLE	STANFORD AVENUE	WEST OLIVE STREET
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	141		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	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	[3] 45				9		2	1			3	1	2		
80		2573.502	CULVERT END CONTROLS	EACH	1														
81	19	2573.602	EROSION CONTROL MOBILIZATION	LUMP SUM	1	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
82	19	2575.602	SITE RESTORATION [3]	EACH	28	1	1	1	1	1	1	1	1	1	1	1	1	1	1
83		2582.503	4" SOLID LINE PAINT	LIN FT	10710														
84		2582.503	12" SOLID LINE PAINT	LIN FT	12														
85		2582.503	24" SOLID LINE PAINT	LIN FT	28														
86		2582.503	4" DOUBLE SOLID LINE PAINT	LIN FT	10230														
87		2582.503	4" SOLID LINE MULTI COMP GR IN (WR)	LIN FT	11156														
88		2582.503	4" BROKEN LINE MULTI COMP GR IN (WR)	LIN FT	498														
89		2582.518	4" DOTTED LINE MULTI COMP GR IN (WR)	LIN FT	44														
90		2582.518	PAVT MSSG MULTI COMP GR IN (WR)	SQ FT	560														
91		2582.518	CROSSWALK PAINT	SQ FT	24														
92		2582.518	CROSSWALK MULTI COMP GR IN (WR)	SQ FT	240														

[2]

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: 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 4

TKDA PROJ. NO. 22008.000

DRAWING NO. 6

PLOT DATE: Apr 11, 2025 - 10:32pm
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\Statement of Estimated Quantities.dwg

CITY OF DULUTH
2025 STREET PRESERVATION PROJECT
CITY PROJECT NO. 2194

			STARTING STATION									
MILL & OVERLAY												
LOCATED ON	FALCON ST		100+00	FROM 88TH AVE W	TO DEAD END SOUTHERLY	SHEETS	37-43	LENGTH	1,584	FEET	0.3	MILES
LOCATED ON	86TH AVE W		200+00	FROM FALCON ST	TO EDWARD ST	SHEETS	44-47	LENGTH	528	FEET	0.1	MILES
LOCATED ON	EDWARD ST		300+00	FROM 88TH AVE W	TO 85TH AVE W ALLEY	SHEETS	48-55	LENGTH	1,214	FEET	0.23	MILES
LOCATED ON	57TH AVE W		500+00	FROM MAIN ST	TO RALEIGH	SHEETS	119-124	LENGTH	950	FEET	0.18	MILES
LOCATED ON	1ST ST ALLEY		1800+00	FROM 22ND	TO 26TH AVE W	SHEETS	127-132	LENGTH	1,901	FEET	0	MILES
LOCATED ON	CLIFF AVE		2400+00	FROM RICE LAKE RD	TO PLUM ST	SHEETS	68-75	LENGTH	1,690	FEET	0.32	MILES
LOCATED ON	PLUM ST	(1)	N/A	FROM CLIFF AVE	TO FERN AVE	SHEETS	68-75	LENGTH	634	FEET	0.12	MILES
LOCATED ON	HIGH ST		2500+00	FROM TRIGGS	TO CLIFF AVE	SHEETS	78-83	LENGTH	950	FEET	0.18	MILES
LOCATED ON	TRIGGS AVE	(2)	N/A	FROM HIGH ST	TO DEAD END	SHEETS	78-83	LENGTH	528	FEET	0.1	MILES
LOCATED ON	BAYLIS ST		2600+00	FROM RICE LAKE RD	TO HIGH ST	SHEETS	89-92	LENGTH	370	FEET	0.07	MILES
LOCATED ON	HIGH ST		2700+00	FROM CLIFF AVE	TO BOULEVARD PLACE	SHEETS	93-87	LENGTH		FEET		MILES
LOCATED ON	LONDON RD		2800+00	FROM 21ST	TO 26TH AVE E	SHEETS	108-114	LENGTH	2,376	FEET	0.45	MILES
								LENGTH	12,725	FEET	2.41	MILES
OVERLAY												
LOCATED ON	CLYDE AVE		400+00	FROM TH23	TO BOAT LANDING	SHEETS	135-139	LENGTH	1,690	FEET	0.32	MILES
LOCATED ON	ANDERSON RD		1900+00	FROM TRINITY RD	TO CENTRAL ENTRANCE	SHEETS	56-67	LENGTH	5,122	FEET	0.97	MILES
LOCATED ON	MAPLE GROVE RD		2000+00	FROM SWAN LAKE RD	TO 562' E OF JOSHUA AVE	SHEETS	140-147	LENGTH	3,485	FEET	0.66	MILES
LOCATED ON	OBSERVATION RD		2300+00	FROM SKYLINE PKWY	TO ARLINGTON	SHEETS	148-155	LENGTH	5,755	FEET	1.09	MILES
								LENGTH	16,052	FEET	3.04	MILES
RECLAIM												
LOCATED ON	BERKELY RD		600+00	FROM HAINES RD	TO PALISADE DR	SHEETS	156-159	LENGTH	634	FEET	0.12	MILES
LOCATED ON	PALISADE DR		700+00	FROM W PARKWOOD LN	TO PARKWOOD LN	SHEETS	160-167	LENGTH	3,643	FEET	0.69	MILES
LOCATED ON	PARKWOOD LN		800+00	FROM HAINES ROAD	TO TWIN CREEKS CIR	SHEETS	168-174	LENGTH	2,851	FEET	0.54	MILES
LOCATED ON	PORTAGE DR		900+00	FROM PALISADE DR	TO PORTAGE CIRCLE	SHEETS	175-179	LENGTH	1,795	FEET	0.34	MILES
LOCATED ON	PORTAGE CIR	(3)	N/A	FROM PORTAGE DR	TO CUL DE SAC	SHEETS	175-179	LENGTH	264	FEET	0.05	MILES
LOCATED ON	KARL AVE		1000+00	FROM PARKWOOD LN	TO PALISADE DR	SHEETS	180-183	LENGTH	686	FEET	0.13	MILES
LOCATED ON	ASBURY DR		1100+00	FROM PARKWOOD LN	TO MORRIS THOMAS RD	SHEETS	184-188	LENGTH	1,320	FEET	0.25	MILES
LOCATED ON	ECHO LN		1200+00	FROM HANFORD	TO CUL DE SAC	SHEETS	189-192	LENGTH	634	FEET	0.12	MILES
LOCATED ON	PALISADE CIR		1300+00	FROM PALISADE DR	TO CUL DE SAC	SHEETS	193-196	LENGTH	370	FEET	0.07	MILES
LOCATED ON	TALMADGE CIR		1400+00	FROM PALISADE DR	TO CUL DE SAC	SHEETS	197-200	LENGTH	422	FEET	0.08	MILES
LOCATED ON	WILDBERRY CIR		1500+00	FROM PALISADE DR	TO CUL DE SAC	SHEETS	201-204	LENGTH	422	FEET	0.08	MILES
LOCATED ON	SILVER FOX CIR		1600+00	FROM PALISADE DR	TO CUL DE SAC	SHEETS	206-209	LENGTH	422	FEET	0.08	MILES
LOCATED ON	TWIN CREEKS CIR		1700+00	FROM PARKWOOD	TO CUL DE SAC	SHEETS	210-213	LENGTH	528	FEET	0.1	MILES
LOCATED ON	HANFORD AVE	(4)	N/A	FROM TWIN CREEKS CIR	TO MORRIS THOMAS	SHEETS	210-213	LENGTH	1,426	FEET	0.27	MILES
LOCATED ON	STANFORD		2100+00	FROM TERRACE ST	TO MARBLE ST	SHEETS	214-220	LENGTH	2,640	FEET	0.5	MILES
LOCATED ON	W OLIVE		2200+00	FROM STANFORD	TO ARLINGTON	SHEETS	221-225	LENGTH	1,320	FEET	0.25	MILES
								LENGTH	15,100	FEET	2.86	MILES
						TOTAL ALL SHEETS		LENGTH	43,877	FEET	8.31	MILES

2 (1) COMBINED WITH CLIFF AVENUE.
(2) COMBINED WITH HIGH STREET.
(3) COMBINED WITH PORTAGE DRIVE.
(4) COMBINED WITH PARKWOOD LANE.

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - ADDED NOTES
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

STREET INDEX

TKDA PROJ. NO. 22008.000

DRAWING NO. 8

PLOT DATE: Apr 11, 2025 - 4:15pm
FILENAME: K:\ia-fl\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\Street Index.dwg

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	
FALCON STREET								
103+04	LEFT							CB0090063
103+19	LEFT							CB0090062
103+41	RIGHT							ST0090038
103+41	LEFT							CB0090114
103+44	LEFT							CB0090061
106+53	LEFT							CB0090059
106+63	RIGHT							SB0090060
106+85	LEFT							ST0090040
PROJECT ITEM TOTALS		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	

2

TEMPORARY EROSION CONTROL

		2573.502	2573.502	2573.602	2575.602	F
STATION TO STATION	LOCATION	STORM DRAIN INLET PROTECTION	CULVERT END CONTROLS	EROSION CONTROL MOBILIZATION	SITE RESTORATION	REMARKS
		EACH	EACH	LUMP SUM	EACH	
FALCON STREET						
103+04	LEFT	1		0.03	1	ESTIMATED AREA = 4004 SQ FT
103+19	LEFT	1				
103+41	RIGHT	1				
103+41	LEFT					
103+44	LEFT	1				
106+53	LEFT	1				
106+63	RIGHT	1				
106+85	LEFT					
PROJECT ITEM TOTALS		**6**	**0**	**0.03**	**1**	

CONCRETE

		2301.502	2301.602	2301.602	2411.607	2521.518	2521.518	2531.503	2531.503	2531.503	2531.504	2531.618	E
STATION TO STATION	LOCATION	DOWEL BAR	DRILL & GROUT DOWEL BAR (EPOXY COATED)	DRILL & GROUT REINF BAR (EPOXY COATED)	CONCRETE STEPS	4" CONCRETE WALK	6" CONCRETE WALK	CONCRETE CURB & GUTTER DESIGN B624	CONCRETE CURB & GUTTER DESIGN S424	CONCRETE CURB DESIGN V6	8" CONCRETE DRIVEWAY PAVEMENT	TRUNCATED DOMES	REMARKS
		EACH	EACH	EACH	CU YD	SQ FT	SQ FT	LIN FT	LIN FT	LIN FT	SQ YD	SQ FT	
FALCON STREET													
101+36 TO 101+95	LEFT					256							
101+52 TO 101+93	RIGHT					84		50			17		B618
101+59 TO 101+93	LEFT							34			15		B618
101+99 TO 102+25	RIGHT					192							
102+20 TO 102+50	LEFT					128							
102+94 TO 103+23	LEFT					77	88	42				24	B618
103+32 TO 103+67	RIGHT					158	69	31				12	B618
103+40 TO 104+10	LEFT					310	94	45		16		32	B618
104+43 TO 104+48	RIGHT					19							
104+58 TO 104+68	RIGHT					38							
104+60 TO 104+78	LEFT					82							
104+76 TO 105+03	LEFT							27					B618
104+87 TO 105+07	RIGHT					76							
104+89 TO 104+93	RIGHT							4					B618
105+19 TO 105+24	LEFT					22							
105+47 TO 105+57	RIGHT					38							
105+49 TO 105+62	LEFT							14					B618
106+00 TO 106+15	LEFT					68							
106+35 TO 106+67	LEFT					197	85	33		28		32	B618
106+58 TO 106+64	RIGHT							7					B618
106+83 TO 107+19	LEFT						114	51				8	B618
108+02 TO 108+44	LEFT					177		62			8		B618
108+14 TO 108+66	RIGHT							46					B618
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**1922**	**450**	**446**	**0**	**44**	**40**	**108**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

FALCON STREET TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 38

PLOT DATE: Apr 11, 2025 - 5:45pm
FILENAME: K:\1a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\Falcon St Tabulations.dwg

CONCRETE

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)	E REMARKS
86TH AVE W													
201+32 TO 201+52	LEFT				1	89							REPLACE SIDEWALK
201+88 TO 202+13	RIGHT							24					B618
202+01 TO 202+13	LEFT							9					B618
202+56 TO 202+64	RIGHT							9					B618
203+13 to 203+55	LEFT				1	44							REPLACE SIDEWALK
203+65 TO 203+75	LEFT				1	185							DRIVEWAY: 1106
203+44 TO 203+62	RIGHT										5		REPLACE SIDEWALK
204+06 TO 204+68	LEFT				1	293							
204+06 TO 204+98	LEFT				1	104							
205+16 TO 205+19	RIGHT							20					B618
205+35 & 205+27	ACROSS												
PROJECT ITEM TOTALS		**0**	**0**	**0**	**5**	**715**	**0**	**62**	**0**	**0**	**5**	**0**	

SITE FURNISHINGS

STATION TO STATION	LOCATION	2557.602 INSTALL VEHICULAR GATE (EACH)	I REMARKS
86TH AVE W			
PROJECT ITEM TOTALS		**0**	

EARTHWORK

STATION TO STATION	LOCATION	2105.607 COMMON EXCAVATION (CU YD)	2105.607 COMMON BORROW (CV) (CU YD)	J REMARKS
86TH AVE W				
PROJECT ITEM TOTALS		**0**	**0**	

TEMPORARY EROSION CONTROL

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	F REMARKS
86TH AVE W						
202+08 TO 202+50				0.03	1	ESTIMATED AREA = 2290 SQ FT
PROJECT ITEM TOTALS		**0**	**0**	**0.03**	**1**	

ENCASEMENT & REPAIR

STATION TO STATION	LOCATION	2504.602 ADJUST CURB BOX (EACH)	2504.602 ADJUST CURB STOP (EACH)	2504.602 ADJUST VALVE BOX (EACH)	2504.602 ADJUST VALVE BOX (SPECIAL) (EACH)	2504.602 CONCRETE ENCASED VALVE BOX COLLAR (EACH)	2506.502 CASTING ASSEMBLY (EACH)	2506.502 ADJUST FRAME & RING CASTING (EACH)	2506.502 ADJUST FRAME & RING CASTING (SPECIAL) (EACH)	2506.502 REPAIR DRAINAGE STRUCTURE (EACH)	2506.503 RECONSTRUCT DRAINAGE STRUCTURE (LIN FT)	2506.602 CONCRETE ENCASED CASTING COLLAR (EACH)	2540.602 CONSTRUCT SURVEY MONUMENT (EACH)	G REMARKS
86TH AVE W														
200+86	RIGHT							1						SA0090154
201+45	LEFT		1											1151 86TH AVE W
201+97	RIGHT							1						SA0090153
202+08	RIGHT						1							CB0090057
202+08	CENTER										3	1		ST0090041
202+08	LEFT							1						CB0090058
203+15	LEFT		1											1131 86TH AVE W
204+58	RIGHT							1						SA0090152
PROJECT ITEM TOTALS		**0**	**2**	**0**	**0**	**0**	**1**	**4**	**0**	**0**	**3.0**	**1**	**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
86TH AVE W												
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

86TH AVE W TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 45

PLOT DATE: Apr 11, 2025 - 5:45pm
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\200 86th Ave W Tabulations.dwg

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
EDWARD STREET								
PROJECT ITEM TOTALS		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	

TEMPORARY EROSION CONTROL — F

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	REMARKS
EDWARD STREET						
303+05				0.03	1	ESTIMATED AREA = 7413 SQ FT
PROJECT ITEM TOTALS		**0**	**0**	**0.03**	**1**	

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
EDWARD STREET													
300+40 TO 301+32	LEFT					645		14					B618
300+43 TO 301+54	RIGHT					524		22					B618
302+19 TO 303+34	LEFT					60							
302+28 TO 302+53	RIGHT					95							
302+97 TO 303+17	LEFT					139	21	38				16	NW QUAD ADA, B618
303+43 TO 303+74	LEFT					173	21	33		16		16	NE QUAD ADA, CB0090072, B618
302+83 TO 303+17	RIGHT					182	21	38				16	SW QUAD ADA, B618
303+43 TO 303+69	RIGHT					155	21	32				16	SE QUAD ADA, B618
304+32 TO 305+72	LEFT					321		46					B618
304+33 TO 305+98	RIGHT					393		49			12		ALLEY APRON, B618
306+13 TO 305+33	LEFT					111	21	38				16	NW QUAD ADA, B618
306+59 TO 307+27	LEFT					268	21	85				8	NE QUAD ADA, B618
306+13 TO 306+33	RIGHT					110	21	130				8	SW QUAD ADA, B618
306+33 TO 306+59	LEFT												STREET SAWCUT
306+80 TO 306+92	RIGHT							11					PORKCHOP C&G, B618
307+57 TO 307+63	LEFT					21							
308+20 TO 309+70	LEFT					663	21	33				8	NW QUAD ADA, B618
309+95 TO 310+17	LEFT					127	21	88				8	NE QUAD ADA, B618
309+27 TO 309+90	RIGHT							51					B618
310+37 TO 311+27	LEFT					212							
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**4199**	**189**	**708**	**0**	**16**	**12**	**112**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

EDWARD STREET TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 49

PLOT DATE: Apr 11, 2025 - 5:46pm
FILENAME: K:\ia-fil\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\300 Edward St Tabulations.dwg

TEMPORARY EROSION CONTROL

△2

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	F REMARKS
ANDERSON ROAD						
1902+08 TO 1949+56				0.04	1	ESTIMATED AREA = 4651 SQ FT
PROJECT ITEM TOTALS		**0**	**0**	**0.04**	**1**	

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
ANDERSON ROAD												
1902+09 TO 1908+86	CENTER				678							
1909+62 TO 1932+83	CENTER				2321							
1933+49 TO 1938+76	CENTER				527							
1939+43 TO 1949+42	CENTER				999							
PROJECT ITEM TOTALS		**0**	**0**	**0**	**4525**	**0**	**0**	**0**	**0**	**0**	**0**	

SITE FURNISHINGS

STATION TO STATION	LOCATION	2557.602 INSTALL VEHICULAR GATE (EACH)	I REMARKS
ANDERSON ROAD			
(NONE)			
PROJECT ITEM TOTALS		**0**	

EARTHWORK

STATION TO STATION	LOCATION	2105.607 COMMON EXCAVATION (CU YD)	2105.607 COMMON BORROW (CV) (CU YD)	J REMARKS
ANDERSON ROAD				
PROJECT ITEM TOTALS		**0**	**0**	

PLOT DATE: Apr 11, 2025 - 5:50pm
FILENAME: K:\ia-fs\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\1900 Anderson Rd Tabulations.dwg

NO.	DATE	BY	DESCRIPTION OF REVISIONS
	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

ANDERSON ROAD TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 61

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
CLIFF AVE								
2409+92	CENTER		1.0					ST0540033
2410+05	LEFT						1.0	CB0540053
2410+05	RIGHT						1.0	CB0540054
PROJECT ITEM TOTALS		**0.0**	**1.0**	**0.0**	**0.0**	**0.0**	**2.0**	

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
CLIFF AVENUE & PLUM STREET													
2400+17 TO 2406+41	LEFT								638		20		
2400+17 TO 2404+89	RIGHT								490				
2405+12 TO 2406+26	RIGHT								126				
2406+71 TO 2407+03	LEFT								42				
2406+73 TO 2407+87	RIGHT								114		39		DRIVEWAYS: 1414 & 1420
2408+35 TO 2410+76	LEFT								137		73		DRIVEWAYS: 1427, 1431, 1437
2408+78 TO 2410+88	RIGHT								117		66		DRIVEWAYS: 1426, 1434, 1440
2411+25 TO 2413+48	RIGHT								163		39		DRIVEWAYS: 1446 & 1502
2411+71 TO 2412+79	LEFT								66		43		DRIVEWAYS: 1501 & 1507
2414+67 TO 2414+92	RIGHT								25		20		DRIVEWAY: 1524
2415+36 TO 2416+79	LEFT								110		47		DRIVEWAYS: 1529, 1535, 1541
2416+22 TO 2419+28	RIGHT							100	97		19		DRIVEWAY: 1523
2417+05 TO 2420+70	LEFT							98	85		65		DRIVEWAYS: 1545, 323, 319
2420+28 TO 2423+40	RIGHT							232			16		DRIVEWAY, CB0840087
2421+64 TO 2423+40	LEFT							174			38		DRIVEWAYS: 311, CB0540088
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**604**	**2210**	**0**	**485**	**0**	

TEMPORARY EROSION CONTROL — F

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	REMARKS
CLIFF AVENUE & PLUM STREET						
2400+17 TO 2423+40				0.04	1	ESTIMATED AREA = 7000 SQ FT
PROJECT ITEM TOTALS		**0**	**0**	**0.04**	**1**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

CLIFF AVENUE & PLUM STREET TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 69

PLOT DATE: Apr 11, 2025 - 5:54pm
FILENAME: K:\a-fDuluth_City\22008000\04_Production\01_CAD\02_Sheets\2400 Cliff Ave Tabulations.dwg

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
HIGH STREET & TRIGGS AVE								
2504+32	LEFT						1	CB0540059
2504+43	RIGHT						1	CB0540060
PROJECT ITEM TOTALS		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**2**	

2

TEMPORARY EROSION CONTROL

F

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	REMARKS
HIGH STREET & TRIGGS AVE						
Entire Site				0.04	1	ESTIMATED AREA =2750 SQ FT. SILT FENCE INCIDENTAL.
PROJECT ITEM TOTALS		**0**	**0**	**0.04**	**1**	

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
HIGH STREET & TRIGGS AVE													
2500+49 TO 2500+76	RIGHT								27		19		CURB & DRIVEWAY
2501+38 TO 2501+80	LEFT								45		15		CURB & DRIVEWAY
2501+39 TO 2501+99	RIGHT								55		15		CURB & DRIVEWAY
2501+97 TO 2502+24	LEFT								28		16		CURB & DRIVEWAY
2502+51 TO 2502+78	RIGHT								26				CURB
2502+52 TO 2502+77	LEFT								26				CURB
2503+36 TO 2503+89	LEFT								124				BAYLIS INTERSECTION
2503+76 TO 2505+04	RIGHT								128		42		CURB & DRIVEWAY
2504+07 TO 2505+47	LEFT								180		18		BAYLIS INTERSECTION
2505+63 TO 2505+92	RIGHT								29		21		CURB & DRIVEWAY
2506+03 TO 2506+31	RIGHT								30		21		CURB & DRIVEWAY
2506+57 TO 2506+84	LEFT								28		21		CURB & DRIVEWAY
2507+09 TO 2507+74	RIGHT								69		22		CURB & DRIVEWAY
2507+14 TO 2507+57	LEFT								41		21		CURB & DRIVEWAY
2508+24 TO 2509+24	RIGHT								93		55		CURB & DRIVEWAY
2509+71 TO 2510+80	LEFT								112		20		CURB & DRIVEWAY
2509+91 TO 2510+15	RIGHT								23				CURB
2510+53 TO 2511+07	RIGHT								54		20		CURB & DRIVEWAY
2511+35 TO 2511+74	RIGHT								39		20		CURB & DRIVEWAY
2512+25 TO 2512+56	RIGHT								31		13		CURB & DRIVEWAY
2512+69 TO 2512+86	LEFT								28		16		CURB & DRIVEWAY
2512+83 TO 2513+34	RIGHT								51		17		CURB & DRIVEWAY
2513+90 TO 2514+24	RIGHT								35		18		CURB & DRIVEWAY
2514+76 TO 2515+15	LEFT							84	74		18		TRIGGS -TURNAROUND
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**84**	**1376**	**0**	**428**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

HIGH STREET & TRIGGS AVENUE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 79

PLOT DATE: Apr 11, 2025 - 6:01pm
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\2500 High St Tabulations.dwg

TEMPORARY EROSION CONTROL

△2

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION EACH	2573.502 CULVERT END CONTROLS EACH	2573.602 EROSION CONTROL MOBILIZATION LUMP SUM	2575.602 SITE RESTORATION EACH	F REMARKS
BAYLIS STREET						
2600+08 TO 2602+15				0.03	1	ESTIMATED AREA = 2331 SQ FT

ENCASEMENT & REPAIR

STATION TO STATION	LOCATION	2504.602 ADJUST CURB BOX EACH	2504.602 ADJUST CURB STOP EACH	2504.602 ADJUST VALVE BOX EACH	2504.602 ADJUST VALVE BOX (SPECIAL) EACH	2504.602 CONCRETE ENCASED VALVE BOX COLLAR EACH	2506.502 CASTING ASSEMBLY EACH	2506.502 ADJUST FRAME & RING CASTING EACH	2506.502 ADJUST FRAME & RING CASTING (SPECIAL) EACH	2506.502 REPAIR DRAINAGE STRUCTURE EACH	2506.503 RECONSTRUCT DRAINAGE STRUCTURE LIN FT	2506.602 CONCRETE ENCASED CASTING COLLAR EACH	2540.602 CONSTRUCT SURVEY MONUMENT EACH	G REMARKS
BAYLIS STREET														
2600+15	RIGHT						1							CB0540062
2600+18	LEFT						1							CB0540061
2600+27	CENTER						1							SA0540003
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**3**	**0**	**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
BAYLIS STREET												
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

SITE FURNISHINGS

STATION TO STATION	LOCATION	2557.602 INSTALL VEHICULAR GATE EACH	I REMARKS
BAYLIS STREET			
(NONE)			
PROJECT ITEM TOTALS		**0**	

EARTHWORK

STATION TO STATION	LOCATION	2105.607 COMMON EXCAVATION CU YD	2105.607 COMMON BORROW (CV) CU YD	J REMARKS
BAYLIS STREET				
PROJECT ITEM TOTALS		**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

BAYLIS STREET TABULATIONS

TKDA PROJ. NO. 22008.000

DRAWING NO. 90

PLOT DATE: Apr 11, 2025 - 6:06pm
FILENAME: K:\ia-fil\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\2600 Baylis St Tabulations.dwg

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
HIGH STREET 2													
2701+00 TO 2701+24	LEFT								289		21		DRIVEWAY: 1402
2701+75 TO 2701+98	LEFT										20		DRIVEWAY: 1403
2701+75 TO 2701+98	RIGHT								285				CURB
2703+36	LEFT								48		27		DRIVEWAY: 1404
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**622**	**0**	**68**	**0**	

TEMPORARY EROSION CONTROL — F

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	REMARKS
HIGH STREET 2						
2700+28 TO 2703+49				0.03	1	ESTIMATED AREA = 1990 SQ FT
PROJECT ITEM TOTALS		**0**	**0**	**0.03**	**1**	

SITE FURNISHINGS — I

STATION TO STATION	LOCATION	2557.602 INSTALL VEHICULAR GATE (EACH)	REMARKS
HIGH STREET 2			
(NONE)			
PROJECT ITEM TOTALS		**0**	

EARTHWORK — J

STATION TO STATION	LOCATION	2105.607 COMMON EXCAVATION (CU YD)	2105.607 COMMON BORROW (CV) (CU YD)	REMARKS
HIGH STREET 2				
PROJECT ITEM TOTALS		**0**	**0**	

ENCASEMENT & REPAIR — G

STATION TO STATION	LOCATION	2504.602 ADJUST CURB BOX (EACH)	2504.602 ADJUST CURB STOP (EACH)	2504.602 ADJUST VALVE BOX (EACH)	2504.602 ADJUST VALVE BOX (SPECIAL) (EACH)	2504.602 CONCRETE ENCASED VALVE BOX COLLAR (EACH)	2506.502 CASTING ASSEMBLY (EACH)	2506.502 ADJUST FRAME & RING CASTING (EACH)	2506.502 ADJUST FRAME & RING CASTING (SPECIAL) (EACH)	2506.502 REPAIR DRAINAGE STRUCTURE (EACH)	2506.503 RECONSTRUCT DRAINAGE STRUCTURE (LIN FT)	2506.602 CONCRETE ENCASED CASTING COLLAR (EACH)	2540.602 CONSTRUCT SURVEY MONUMENT (EACH)	REMARKS
HIGH STREET 2														
2702+92	CENTER										3			SA0540041
2703+11	LEFT										3			ST0540018
2703+30	RIGHT			1										
PROJECT ITEM TOTALS		**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**6.0**	**0**	**0**	

PAVEMENT MARKING — H

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)	REMARKS
HIGH STREET 2												
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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 2 TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 94

PLOT DATE: Apr 11, 2025 - 6:11pm
FILENAME: K:\ia-fl\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\2700 High St 2 Tabulations.dwg

CONCRETE

		2301.502	2301.602	2301.602	2411.607	2521.518	2521.518	2531.503	2531.503	2531.503	2531.504	2531.618	E
STATION TO STATION	LOCATION	DOWEL BAR	DRILL & GROUT DOWEL BAR (EPOXY COATED)	DRILL & GROUT REINF BAR (EPOXY COATED)	CONCRETE STEPS	4" CONCRETE WALK	6" CONCRETE WALK	CONCRETE CURB & GUTTER DESIGN B624	CONCRETE CURB & GUTTER DESIGN S424	CONCRETE CURB DESIGN V6	8" CONCRETE DRIVEWAY PAVEMENT	TRUNCATED DOMES	REMARKS
		EACH	EACH	EACH	CU YD	SQ FT	SQ FT	LIN FT	LIN FT	LIN FT	SQ YD	SQ FT	
LONDON ROAD													
0						47							
2803+90 TO 2804+00								10					B618
2804+11 TO 2804+33						89		22					B618
0						411		172			42		B618
0						371							
2806+07 TO 2807+17						279		110			39		B618
0						216		29					B618
0						123		75			19		B618
0						115							
0						724		164			18		B618
0						653							
2814+69 TO 2815+45						157		76			39		B618
0						817							
2817+55 TO 2817+70						59		15					B618
0						132							
2818+03 TO 2818+86						133		83			40		B618
0						178							
2819+32 TO 2819+51						70		19					B618
0						80							
2819+74 TO 2819+88						48		14			1		B618
2820+21 TO 2810+32						72		12					B618
2820+56 TO 2820+65						50		8					B618
2820+95 TO 2821+05						62		10					B618
2821+19 TO 2821+36						99		17					B618
2821+70 TO 2821+78						60		10					B618
2822+03 TO 2822+17						77		14					B618
2824+09 TO 2824+16								7					B618
2824+40 TO 2824+47								7					B618
2801+75 TO 2802+17								42					B618
0								39					B618
0								20					B618
0						581		35					B618
0						146		35			10		B618
0						414							
2813+72 TO 2813+02						90		30			25		B618
0						180		27					B618
2815+23 TO 2815+43						209		34					B618
2816+02 TO 2816+10						296		8					B618
0						34							
2819+47 TO 2819+63						92		34					B618
2819+90 TO 2820+31						235		70					B618
0						173							
0											22		
2822+03 TO 2822+13								10					B618
0						57							
2823+25 TO 2823+89						373		63					B618
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**8002**	**0**	**1321**	**0**	**0**	**255**	**0**	

TEMPORARY EROSION CONTROL

		2573.502	2573.502	2573.602	2575.602	F
STATION TO STATION	LOCATION	STORM DRAIN INLET PROTECTION	CULVERT END CONTROLS	EROSION CONTROL MOBILIZATION	SITE RESTORATION	REMARKS
		EACH	EACH	LUMP SUM	EACH	
LONDON ROAD						
				0.04	1	ESTIMATED AREA = 10575 SQ FT
PROJECT ITEM TOTALS		**0**	**0**	**0.04**	**1**	

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	
LONDON ROAD								
2819+42	RIGHT						1.0	CB0430194
2822+11	LEFT						1.0	CB0430132
PROJECT ITEM TOTALS		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**2.0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

LONDON ROAD TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 101

PLOT DATE: Apr 11, 2025 - 6:19pm
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\2800 London Rd Tabulations.dwg

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
57TH AVE								
500+84	CENTER	1						ST0220043
500+84	RIGHT			1				CB0220061A
500+84	LEFT						1	CB0220060A
501+24	RIGHT						1	CB0220061
501+24	LEFT						1	CB0220060
502+61	CENTER			1				ST0220144 (1) DIVERSION STRUCTURE
502+63	RIGHT				1			ST0220144A WATER QUALITY STRUCTURE
502+92	RIGHT						1	CB0220153
502+92	LEFT						1	CB0220153A
502+92	CENTER	1						ST0220144
503+84	CENTER	1						ST0220042
PROJECT ITEM TOTALS		**3.0**	**0.0**	**2.0**	**1.0**	**0.0**	**5.0**	

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
57TH AVE													
500+13 TO 502+54.47											801		
500+13 TO 501+35	RIGHT AND LEFT	487	387	100									
501+35 TO 502+40	RIGHT AND LEFT	334	264	70									
502+40 TO 503+00	RIGHT AND LEFT	151	120	31									
503+00 TO 503+95	RIGHT AND LEFT	358	280	78									
502.54.47 TO 503+04.47											154		B618
503+04.47 TO END											218		
START TO END							332	176					
PROJECT ITEM TOTALS		**1330**	**1051**	**279**	**0**	**0**	**332**	**176**	**0**	**0**	**1173**	**0**	

TEMPORARY EROSION CONTROL — F

△2

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	REMARKS
57TH AVE						
				0.04	1	ESTIMATED AREA = 795 SQ FT
PROJECT ITEM TOTALS		**0**	**0**	**0.04**	**1**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

57TH AVENUE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 120

PLOT DATE: Apr 11, 2025 - 6:28pm
FILENAME: K:\a-f\Duluth_City\2200800\004_Production\01_CAD\02_Sheets\500 57th Ave Tabulations.dwg

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
1ST STREET ALLEY													
1804+82 TO 1807+50	RIGHT								268				D424
1813+68 TO 1813+82	ACROSS							27			29		B618
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**27**	**268**	**0**	**29**	**0**	

ENCASEMENT & REPAIR — G

STATION TO STATION	LOCATION	2504.602 ADJUST CURB BOX (EACH)	2504.602 ADJUST CURB STOP (EACH)	2504.602 ADJUST VALVE BOX (EACH)	2504.602 ADJUST VALVE BOX (SPECIAL) (EACH)	2504.602 CONCRETE ENCASED VALVE BOX COLLAR (EACH)	2506.502 CASTING ASSEMBLY (EACH)	2506.502 ADJUST FRAME & RING CASTING (EACH)	2506.502 ADJUST FRAME & RING CASTING (SPECIAL) (EACH)	2506.502 REPAIR DRAINAGE STRUCTURE (EACH)	2506.503 RECONSTRUCT DRAINAGE STRUCTURE (LIN FT)	2506.602 CONCRETE ENCASED CASTING COLLAR (EACH)	2540.602 CONSTRUCT SURVEY MONUMENT (EACH)	REMARKS
1ST STREET ALLEY														
1804+66	LEFT							1						SA0360332
1813+82	LEFT							1						CB0360122
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0.0**	**0**	**0**	

TEMPORARY EROSION CONTROL — F

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	REMARKS
1ST STREET ALLEY						
1800+15 TO 1817+68				0.04	1	ESTIMATED AREA = 100 SQ FT
1805+94	RIGHT	1				
1806+14	RIGHT	1				
1806+34	RIGHT	1				
PROJECT ITEM TOTALS		**3**	**0**	**0.04**	**1**	

PAVEMENT MARKING — H

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)	REMARKS
1ST STREET ALLEY												
(NONE)												
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

SITE FURNISHINGS — I

STATION TO STATION	LOCATION	2557.602 INSTALL VEHICULAR GATE (EACH)	REMARKS
1ST STREET ALLEY			
(NONE)			
PROJECT ITEM TOTALS		**0**	

EARTHWORK — J

STATION TO STATION	LOCATION	2105.607 COMMON EXCAVATION (CU YD)	2105.607 COMMON BORROW (CV) (CU YD)	REMARKS
1ST STREET ALLEY				
(NONE)				
PROJECT ITEM TOTALS		**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
1	4/7/25	ERM	ADDENUDM 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

1ST STREET ALLEY TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 128

PLOT DATE: Apr 11, 2025 - 6:31pm
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\1800 1st St Alley Tabulations.dwg

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
CLYDE AVENUE								
402+17	LEFT						1	CB130035, 2X3 CASTING
402+59	LEFT		1					CB130036, 2X3 CASTING
402+64	LEFT						1	CB130037, STRM-3 CASTING
409+10	LEFT					1		ST-496, STRM-3 CASTING
PROJECT ITEM TOTALS		**0**	**1**	**0**	**0**	**1**	**2**	

SITE FURNISHINGS — I

STATION TO STATION	LOCATION	2557.602 INSTALL VEHICULAR GATE (EACH)	REMARKS
CLYDE AVE			
(NONE)			
PROJECT ITEM TOTALS		**0**	

EARTHWORK — J

STATION TO STATION	LOCATION	2105.607 COMMON EXCAVATION (CU YD)	2105.607 COMMON BORROW (CV) (CU YD)	REMARKS
CLYDE AVE				
(NONE)				
PROJECT ITEM TOTALS		**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
CLYDE AVE													
400+69 TO 401+32	LEFT					289							
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**289**	**0**	**0**	**0**	**0**	**0**	**0**	

TEMPORARY EROSION CONTROL — F

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	REMARKS
CLYDE AVE						
400+48 TO 417+28				0.04	1	ESTIMATED AREA = 1521 SQ FT
402+17	LEFT	1				
402+59	LEFT	1				
402+64	LEFT	1				
409+10	LEFT	1				
414+30	LEFT		1			
PROJECT ITEM TOTALS		**4**	**1**	**0.04**	**1**	

ENCASEMENT & REPAIR — G

STATION TO STATION	LOCATION	2504.602 ADJUST CURB BOX (EACH)	2504.602 ADJUST CURB STOP (EACH)	2504.602 ADJUST VALVE BOX (EACH)	2504.602 ADJUST VALVE BOX (SPECIAL) (EACH)	2504.602 CONCRETE ENCASED VALVE BOX COLLAR (EACH)	2506.502 CASTING ASSEMBLY (EACH)	2506.502 ADJUST FRAME & RING CASTING (EACH)	2506.502 ADJUST FRAME & RING CASTING (SPECIAL) (EACH)	2506.502 REPAIR DRAINAGE STRUCTURE (EACH)	2506.503 RECONSTRUCT DRAINAGE STRUCTURE (LIN FT)	2506.602 CONCRETE ENCASED CASTING COLLAR (EACH)	2540.602 CONSTRUCT SURVEY MONUMENT (EACH)	REMARKS
CLYDE AVE														
402+28	LEFT										3			SA0130046
416+79	LEFT						1							CB0130010, 2X3 CASTING
417+07	LEFT						1							CB0130011, 2X3 CASTING
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**3**	**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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. 136

PLOT DATE: Apr 11, 2025 - 6:34pm
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\400 Clyde Ave Tabulations.dwg

TEMPORARY EROSION CONTROL — F

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	REMARKS
MAPLE GROVE ROAD						
200+36 TO 2034+66				0.04	1	ESTIMATED AREA = 990 SQ FT
2003+03	LEFT	1				CB0690024
2003+61	LEFT	1				CB0690023
2007+88	LEFT	1				CB0690021
2008+13	LEFT	1				CB0690020
2013+57	RIGHT	1				CB0660088
2013+60	LEFT	1				CB0690019
2016+51	RIGHT	1				CB0660087
2016+51	LEFT	1				CB0690018
2027+81	LEFT	1				CB0690013
2028+21	RIGHT	1				CB0660076
2029+80	RIGHT	1				CB0660073
2032+62	RIGHT	1				CB0660092
PROJECT ITEM TOTALS		**12**	**0**	**0.04**	**1**	

PAVEMENT MARKING — H

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)	REMARKS
MAPLE GROVE ROAD												
2000+00 TO 2000+89	CENTER				89							
PROJECT ITEM TOTALS		**0**	**0**	**0**	**89**	**0**	**0**	**0**	**0**	**0**	**0**	

SITE FURNISHINGS — I

STATION TO STATION	LOCATION	2557.602 INSTALL VEHICULAR GATE (EACH)	REMARKS
MAPLE GROVE ROAD			
(NONE)			
PROJECT ITEM TOTALS		**0**	

EARTHWORK — J

STATION TO STATION	LOCATION	2105.607 COMMON EXCAVATION (CU YD)	2105.607 COMMON BORROW (CV) (CU YD)	REMARKS
MAPLE GROVE ROAD				
(NONE)				
PROJECT ITEM TOTALS		**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENUDM 3 - REVISE TAB F
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

MAPLE GROVE ROAD TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 143

PLOT DATE: Apr 11, 2025 - 6:43pm
FILENAME: K:\a-f\Duluth_City\2200800\04_Production\01_CAD\02_Sheets\2000 Maple Grove Rd Tabulations.dwg

CONCRETE

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)	E REMARKS
OBSERVATION ROAD													
2354+76 TO 2356+11	RIGHT							140					
2355+79 TO 2355+85	LEFT					8							
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**8**	**0**	**140**	**0**	**0**	**0**	**0**	

SITE FURNISHINGS

STATION TO STATION	LOCATION	2557.602 INSTALL VEHICULAR GATE (EACH)	I REMARKS
OBSERVATION ROAD			
(NONE)			
PROJECT ITEM TOTALS		**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
OBSERVATION ROAD								
2352+15	RIGHT						1	CB0500005, 2'X3' CASTING
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**1**	

TEMPORARY EROSION CONTROL

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	F REMARKS
OBSERVATION ROAD						
2300+52 TO 2356+12				0.04	1	ESTIMATED AREA = 504 SQ FT
2352+15	RIGHT	1				CB0500005
2356+54	LEFT	1				CB0450001
PROJECT ITEM TOTALS		**2**	**0**	**0.04**	**1**	

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)	G 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
OBSERVATION ROAD												
2300+66	CENTER TO LEFT			28								STOP BAR
2300+66 TO 2352+26	CENTER				5161							
2352+69 TO 2356+34	CENTER				366							
2300+63 TO 2352+26	RIGHT	5164										
2352+69 TO 2356+26	RIGHT	363										
2300+68 TO 2331+77	LEFT	2955										
2332+31 TO 2333+29	LEFT	101										
2334+05 TO 2348+43	LEFT	1442										
2348+90 TO 2352+26	LEFT	337										
2352+68 TO 2356+20	LEFT	348										
PROJECT ITEM TOTALS		**10710**	**0**	**28**	**5527**	**0**	**0**	**0**	**0**	**0**	**0**	

EARTHWORK

STATION TO STATION	LOCATION	2105.607 COMMON EXCAVATION (CU YD)	2105.607 COMMON BORROW (CV) (CU YD)	J REMARKS
OBSERVATION ROAD				
(NONE)				
PROJECT ITEM TOTALS		**0**	**0**	

ENCASEMENT & REPAIR

STATION TO STATION	LOCATION	2504.602 ADJUST CURB BOX (EACH)	2504.602 ADJUST CURB STOP (EACH)	2504.602 ADJUST VALVE BOX (EACH)	2504.602 ADJUST VALVE BOX (SPECIAL) (EACH)	2504.602 CONCRETE ENCASED VALVE BOX COLLAR (EACH)	2506.502 CASTING ASSEMBLY (EACH)	2506.502 ADJUST FRAME & RING CASTING (EACH)	2506.502 ADJUST FRAME & RING CASTING (SPECIAL) (EACH)	2506.502 REPAIR DRAINAGE STRUCTURE (EACH)	2506.503 RECONSTRUCT DRAINAGE STRUCTURE (LIN FT)	2506.602 CONCRETE ENCASED CASTING COLLAR (EACH)	2540.602 CONSTRUCT SURVEY MONUMENT (EACH)	G REMARKS
OBSERVATION ROAD														
2348+50	RIGHT						1							CB0500001
2348+50	LEFT						1							CB0500002
2348+68	LEFT						1							CB0500003
2348+95	LEFT						1							CB0500004
2348+96	RIGHT								1					ST0500001
2349+87	RIGHT						1				2			SA0500001
2350+63	RIGHT						1				2			SA0500003
2352+50	RIGHT						1				2			SA0500004
2352+61	RIGHT						1				2			ST0500002
2355+06	RIGHT								1					SA0500005
2355+65	RIGHT						1							CB0500007
2355+66	LEFT						1					1		CB0500008
2355+76	RIGHT						1				3			ST0500003
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**11**	**0**	**2**	**0**	**11.0**	**1**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

OBSERVATION ROAD TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 149

PLOT DATE: Apr 11, 2025 - 6:48pm
FILENAME: K:\1a-fl\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\2300 Observation Rd Tabulations.dwg

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
BERKELY ROAD													
601+20 TO 601+56	LEFT							39			9		
601+49 to 601+82	RIGHT							34			8		
602+82 TO 603+03	RIGHT							22			7		
603+38 TO 603+58	LEFT							20					
603+49 TO 603+81	RIGHT							34			9		
604+18 TO 604+53	RIGHT							36					
603+95 TO 605+81	LEFT							186			7		
605+75 TO 605+88	RIGHT							13					
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**384**	**0**	**0**	**40**	**0**	

TEMPORARY EROSION CONTROL — F

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	REMARKS
BERKELY ROAD						
600+81 TO 606+4				0.03	1	ESTIMATED AREA = 811 SQ FT
PROJECT ITEM TOTALS		**0**	**0**	**0.03**	**1**	

SITE FURNISHINGS — I

STATION TO STATION	LOCATION	2557.602 INSTALL VEHICULAR GATE (EACH)	REMARKS
HIGH STREET 2			
PROJECT ITEM TOTALS		**0**	

EARTHWORK — J

STATION TO STATION	LOCATION	2105.607 COMMON EXCAVATION (CU YD)	2105.607 COMMON BORROW (CV) (CU YD)	REMARKS
BERKELY ROAD				
PROJECT ITEM TOTALS		**0**	**0**	

ENCASEMENT & REPAIR — G

STATION TO STATION	LOCATION	2504.602 ADJUST CURB BOX (EACH)	2504.602 ADJUST CURB STOP (EACH)	2504.602 ADJUST VALVE BOX (EACH)	2504.602 ADJUST VALVE BOX (SPECIAL) (EACH)	2504.602 CONCRETE ENCASED VALVE BOX COLLAR (EACH)	2506.502 CASTING ASSEMBLY (EACH)	2506.502 ADJUST FRAME & RING CASTING (EACH)	2506.502 ADJUST FRAME & RING CASTING (SPECIAL) (EACH)	2506.502 REPAIR DRAINAGE STRUCTURE (EACH)	2506.503 RECONSTRUCT DRAINAGE STRUCTURE (LIN FT)	2506.602 CONCRETE ENCASED CASTING COLLAR (EACH)	2540.602 CONSTRUCT SURVEY MONUMENT (EACH)	REMARKS
BERKELY ROAD														
601+07	CENTER							1						SA0560083
601+30	RIGHT			1		1								
603+69	CENTER											1		SA0560082
605+79	RIGHT	1												CB0560060
605+95	RIGHT			2		2								
PROJECT ITEM TOTALS		**1**	**0**	**3**	**0**	**3**	**0**	**1**	**0**	**0**	**0.0**	**1**	**0**	

PAVEMENT MARKING — H

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)	REMARKS
BERKELY ROAD												
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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. 157

PLOT DATE: Apr 11, 2025 - 6:55pm
FILENAME: K:\ia-fl\Duluth_City\22008000\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	2573.602 EROSION CONTROL MOBILIZATION LUMP SUM	2575.602 SITE RESTORATION EACH	REMARKS
PALISADE DRIVE						
700+17 TO 736+15				0.04	1	ESTIMATED AREA = 6331 SQ FT
PROJECT ITEM TOTALS		**0**	**0**	**0.04**	**1**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
3	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

TKDA®

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

DULUTH PROJECT NO. 2194

PALISADE DRIVE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 161

PLOT DATE: Apr 11, 2025 - 7:07pm
FILENAME: K:\a-f\Duluth_City\2200800\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	2573.602 EROSION CONTROL MOBILIZATION LUMP SUM	2575.602 SITE RESTORATION EACH	REMARKS
PARKWOOD LANE & HANFORD AVENUE						
800+71 TO 842+45				0.04	1	ESTIMATED AREA = 7382 SQ FT
PROJECT ITEM TOTALS		**0**	**0**	**0.04**	**1**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
3	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

PARKWOOD LANE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 169

PLOT DATE: Apr 11, 2025 - 7:11pm
FILENAME: K:\ia-fl\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\800 Parkwood Ln Tabulations.dwg

CONCRETE

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)	E REMARKS
PORTAGE DRIVE													
								1380			27		B618
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**1380**	**0**	**0**	**27**	**0**	

EARTHWORK

STATION TO STATION	LOCATION	2105.607 COMMON EXCAVATION (CU YD)	2105.607 COMMON BORROW (CV) (CU YD)	J REMARKS
PORTAGE DRIVE				
PROJECT ITEM TOTALS		**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
PORTAGE DRIVE								
PROJECT ITEM TOTALS		**0.0**	**0.0**	**0.0**	**0.0**	**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
PALISADE DRIVE												
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

TEMPORARY EROSION CONTROL

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	F REMARKS
PORTAGE DRIVE						
ENTIRE PROJECT AREA		9		0.04	1	ESTIMATED AREA = 4688 SQ FT
PROJECT ITEM TOTALS		**9**	**0**	**0.04**	**1**	

ENCASEMENT & REPAIR

STATION TO STATION	LOCATION	2504.602 ADJUST CURB BOX (EACH)	2504.602 ADJUST CURB STOP (EACH)	2504.602 ADJUST VALVE BOX (EACH)	2504.602 ADJUST VALVE BOX (SPECIAL) (EACH)	2504.602 CONCRETE ENCASED VALVE BOX COLLAR (EACH)	2506.502 CASTING ASSEMBLY (EACH)	2506.502 ADJUST FRAME & RING CASTING (EACH)	2506.502 ADJUST FRAME & RING CASTING (SPECIAL) (EACH)	2506.502 REPAIR DRAINAGE STRUCTURE (EACH)	2506.503 RECONSTRUCT DRAINAGE STRUCTURE (LIN FT)	2506.602 CONCRETE ENCASED CASTING COLLAR (EACH)	2540.602 CONSTRUCT SURVEY MONUMENT (EACH)	G REMARKS
PORTAGE DRIVE														
900+27	RIGHT										1.0			CB0560052
900+30	LEFT			1		1								
900+35	LEFT							1						CB0560053
902+36	CENTER							1						SA0560091
903+90	LEFT			1		1								HYDRANT VALVE
904+88	CENTER										1.0	1		SA0560090
904+91	RIGHT							1						CB0560070
904+92	LEFT							1						CB0560069
907+88	LEFT							1						CB0560067
907+89	RIGHT							1						CB0560068
908+91	CENTER											1		SA0560089
911+42	LEFT			4		4								
914+54	LEFT						1							CB0560045
915+15	RIGHT										1.5			CB0560044
915+39	CENTER										1.0	1		SA0560068
918+36	RIGHT						1				3.0			CB0560043
918+66	CENTER							1				1		SA0560069
PROJECT ITEM TOTALS		**0**	**0**	**6**	**0**	**6**	**2**	**7**	**0**	**0**	**7.5**	**4**	**0**	

SITE FURNISHINGS

STATION TO STATION	LOCATION	2557.602 INSTALL VEHICULAR GATE (EACH)	I REMARKS
PORTAGE DRIVE			
PROJECT ITEM TOTALS		**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

PORTAGE DRIVE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 176

PLOT DATE: Apr 11, 2025 - 7:17pm
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\900 Portage Dr Tabulations.dwg

CONCRETE

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)	E REMARKS
KARL AVENUE													
1000+20 TO 1000+42	RIGHT							32					
1000+21 TO 1001+60	LEFT							165					
1001+80 TO 1002+46	LEFT							66			6		DRIVEWAY: 2210, 2218
1002+52 TO 1002+80	RIGHT							28					
1003+58 TO 1003+69	LEFT							11					
1003+60 TO 1003+67	RIGHT							7					
1004+44 TO 1006+75	LEFT							243			6		
1005+33 TO 1005+38	RIGHT							6					
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**558**	**0**	**0**	**12**	**0**	

SITE FURNISHINGS

STATION TO STATION	LOCATION	2557.602 INSTALL VEHICULAR GATE (EACH)	I REMARKS
KARL AVENUE			
PROJECT ITEM TOTALS		**0**	

TEMPORARY EROSION CONTROL

2

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	F REMARKS
KARL AVENUE						
1000+18 TO 1006+76				0.04	1	ESTIMATED AREA = 618 SQ FT
PROJECT ITEM TOTALS		**0**	**0**	**0.04**	**1**	

EARTHWORK

STATION TO STATION	LOCATION	2105.607 COMMON EXCAVATION (CU YD)	2105.607 COMMON BORROW (CV) (CU YD)	J REMARKS
KARL AVE				
PROJECT ITEM TOTALS		**0**	**0**	

ENCASEMENT & REPAIR

STATION TO STATION	LOCATION	2504.602 ADJUST CURB BOX (EACH)	2504.602 ADJUST CURB STOP (EACH)	2504.602 ADJUST VALVE BOX (EACH)	2504.602 ADJUST VALVE BOX (SPECIAL) (EACH)	2504.602 CONCRETE ENCASED VALVE BOX COLLAR (EACH)	2506.502 CASTING ASSEMBLY (EACH)	2506.502 ADJUST FRAME & RING CASTING (EACH)	2506.502 ADJUST FRAME & RING CASTING (SPECIAL) (EACH)	2506.502 REPAIR DRAINAGE STRUCTURE (EACH)	2506.503 RECONSTRUCT DRAINAGE STRUCTURE (LIN FT)	2506.602 CONCRETE ENCASED CASTING COLLAR (EACH)	2540.602 CONSTRUCT SURVEY MONUMENT (EACH)	G REMARKS
KARL AVENUE														
1000+28	LEFT			1		1								
1003+64	RIGHT							1						CB0560048
1003+65	LEFT							1						CB0560049
1003+83	CENTER											1		ST0560051
1005+19	CENTER											1		ST0560052
1005+37	RIGHT							1						CB0560046
1005+37	LEFT							1						CB0560047
PROJECT ITEM TOTALS		**0**	**0**	**1**	**0**	**1**	**0**	**4**	**0**	**0**	**0**	**2**	**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
KARL AVENUE												
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

KARL AVENUE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 181

PLOT DATE: Apr 11, 2025 - 7:27pm
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\1000 Karl Ave Tabulations.dwg

TEMPORARY EROSION CONTROL — F

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	REMARKS
ECHO LANE						
ENTIRE PROJECT AREA				0.04	1	ESTIMATED AREA = 95 SQ FT
1202+61	RIGHT	1				CB0560098
PROJECT ITEM TOTALS		**1**	**0**	**0.04**	**1**	

ENCASEMENT & REPAIR — G

STATION TO STATION	LOCATION	2504.602 ADJUST CURB BOX (EACH)	2504.602 ADJUST CURB STOP (EACH)	2504.602 ADJUST VALVE BOX (EACH)	2504.602 ADJUST VALVE BOX (SPECIAL) (EACH)	2504.602 CONCRETE ENCASED VALVE BOX COLLAR (EACH)	2506.502 CASTING ASSEMBLY (EACH)	2506.502 ADJUST FRAME & RING CASTING (EACH)	2506.502 ADJUST FRAME & RING CASTING (SPECIAL) (EACH)	2506.502 REPAIR DRAINAGE STRUCTURE (EACH)	2506.503 RECONSTRUCT DRAINAGE STRUCTURE (LIN FT)	2506.602 CONCRETE ENCASED CASTING COLLAR (EACH)	2540.602 CONSTRUCT SURVEY MONUMENT (EACH)	REMARKS
ECHO LANE														
1202+58	RIGHT							1				1		ST0560140
1202+66	RIGHT							1						CB0560113
1204+88	LEFT			1		1								
PROJECT ITEM TOTALS		**0**	**0**	**1**	**0**	**1**	**0**	**2**	**0**	**0**	**0**	**1**	**0**	

PAVEMENT MARKING — H

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)	REMARKS
ECHO LANE												
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

SITE FURNISHINGS — I

STATION TO STATION	LOCATION	2557.602 INSTALL VEHICULAR GATE (EACH)	REMARKS
ECHO LANE			
(NONE)			
PROJECT ITEM TOTALS		**0**	

EARTHWORK — J

STATION TO STATION	LOCATION	2105.607 COMMON EXCAVATION (CU YD)	2105.607 COMMON BORROW (CV) (CU YD)	REMARKS
ECHO LANE				
PROJECT ITEM TOTALS		**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
	4/14/25	ERM	~~ADDENDUM 3 - REVISE TAB F~~
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. 190

PLOT DATE: Apr 11, 2025 - 7:38pm
FILENAME: K:\ta-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\1200 Echo Ln Tabulations.dwg

CONCRETE

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)	E REMARKS
PALISADE CIRCLE													
1300+21 TO 1300+45	LEFT							52			10		
1300+21 TO 1301+89	RIGHT					27		230					
1301+16 TO 1301+86	LEFT							76					
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**27**	**0**	**358**	**0**	**0**	**10**	**0**	

2

TEMPORARY EROSION CONTROL

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	F REMARKS
PALISADE CIRCLE						
1300+28 TO 1302+06				0.03	1	ESTIMATED AREA = 1401 SQ FT
PROJECT ITEM TOTALS		**0**	**0**	**0.03**	**1**	

SITE FURNISHINGS

STATION TO STATION	LOCATION	2557.602 INSTALL VEHICULAR GATE (EACH)	I REMARKS
PALISADE CIRCLE			
(NONE)			
PROJECT ITEM TOTALS		**0**	

ENCASEMENT & REPAIR

STATION TO STATION	LOCATION	2504.602 ADJUST CURB BOX (EACH)	2504.602 ADJUST CURB STOP (EACH)	2504.602 ADJUST VALVE BOX (EACH)	2504.602 ADJUST VALVE BOX (SPECIAL) (EACH)	2504.602 CONCRETE ENCASED VALVE BOX COLLAR (EACH)	2506.502 CASTING ASSEMBLY (EACH)	2506.502 ADJUST FRAME & RING CASTING (EACH)	2506.502 ADJUST FRAME & RING CASTING (SPECIAL) (EACH)	2506.502 REPAIR DRAINAGE STRUCTURE (EACH)	2506.503 RECONSTRUCT DRAINAGE STRUCTURE (LIN FT)	2506.602 CONCRETE ENCASED CASTING COLLAR (EACH)	2540.602 CONSTRUCT SURVEY MONUMENT (EACH)	G REMARKS
PALISADE CIRCLE														
1301+65	LEFT							1						CB0560066
1301+77	RIGHT			1		1								
PROJECT ITEM TOTALS		**0**	**0**	**1**	**0**	**1**	**0**	**1**	**0**	**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
PALISADE CIRCLE												
1300+28 TO 1302+06												
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

EARTHWORK

STATION TO STATION	LOCATION	2105.607 COMMON EXCAVATION (CU YD)	2105.607 COMMON BORROW (CV) (CU YD)	J REMARKS
PALISADE CIRCLE				
1300+28 TO 1302+06				
PROJECT ITEM TOTALS		**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

PALISADE CIRCLE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 194

PLOT DATE: Apr 11, 2025 - 7:44pm
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\1300 Palisade Cir Tabulations.dwg

CONCRETE

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	E REMARKS
TALMADGE CIRCLE													
1401+53 TO 1401+83	LEFT							33					
1402+22 TO 1402+54	LEFT / RIGHT							68					
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**101**	**0**	**0**	**0**	**0**	

SITE FURNISHINGS

STATION TO STATION	LOCATION	2557.602 INSTALL VEHICULAR GATE EACH	I REMARKS
TALMADGE CIRCLE			
(NONE)			
PROJECT ITEM TOTALS		**0**	

ENCASEMENT & REPAIR

STATION TO STATION	LOCATION	2504.602 ADJUST CURB BOX EACH	2504.602 ADJUST CURB STOP EACH	2504.602 ADJUST VALVE BOX EACH	2504.602 ADJUST VALVE BOX (SPECIAL) EACH	2504.602 CONCRETE ENCASED VALVE BOX COLLAR EACH	2506.502 CASTING ASSEMBLY EACH	2506.502 ADJUST FRAME & RING CASTING EACH	2506.502 ADJUST FRAME & RING CASTING (SPECIAL) EACH	2506.502 REPAIR DRAINAGE STRUCTURE EACH	2506.503 RECONSTRUCT DRAINAGE STRUCTURE LIN FT	2506.602 CONCRETE ENCASED CASTING COLLAR EACH	2540.602 CONSTRUCT SURVEY MONUMENT EACH	G REMARKS
TALMADGE CIRCLE														
1402+57	RIGHT	1												CB0560057
PROJECT ITEM TOTALS		**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**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
TALMADGE CIRCLE												
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

TEMPORARY EROSION CONTROL

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION EACH	2573.502 CULVERT END CONTROLS EACH	2573.602 EROSION CONTROL MOBILIZATION LUMP SUM	2575.602 SITE RESTORATION EACH	F REMARKS
TALMADGE CIRCLE						
1400+42 TO 1042+87				0.03	1	ESTIMATED AREA = 274 SQ FT
PROJECT ITEM TOTALS		**0**	**0**	**0.03**	**1**	

EARTHWORK

STATION TO STATION	LOCATION	2105.607 COMMON EXCAVATION CU YD	2105.607 COMMON BORROW (CV) CU YD	J REMARKS
TALMADGE CIRCLE				
PROJECT ITEM TOTALS		**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

TALMADGE CIRCLE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 198

PLOT DATE: Apr 11, 2025 - 7:48pm
FILENAME: K:\1a-fl\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\1400 Talmadge Cir Tabulations.dwg

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
WILDBERRY CIRCLE													
1500+37 TO 1502+31	LEFT							214					
1501+27 TO 1501+39	RIGHT							14					
1502+25 TO 1502+57	RIGHT							48					
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**276**	**0**	**0**	**0**	**0**	

SITE FURNISHINGS — I

STATION TO STATION	LOCATION	2557.602 INSTALL VEHICULAR GATE (EACH)	REMARKS
WILDBERRY CIRCLE			
(NONE)			
PROJECT ITEM TOTALS		**0**	

ENCASEMENT & REPAIR — G

STATION TO STATION	LOCATION	2504.602 ADJUST CURB BOX (EACH)	2504.602 ADJUST CURB STOP (EACH)	2504.602 ADJUST VALVE BOX (EACH)	2504.602 ADJUST VALVE BOX (SPECIAL) (EACH)	2504.602 CONCRETE ENCASED VALVE BOX COLLAR (EACH)	2506.502 CASTING ASSEMBLY (EACH)	2506.502 ADJUST FRAME & RING CASTING (EACH)	2506.502 ADJUST FRAME & RING CASTING (SPECIAL) (EACH)	2506.502 REPAIR DRAINAGE STRUCTURE (EACH)	2506.503 RECONSTRUCT DRAINAGE STRUCTURE (LIN FT)	2506.602 CONCRETE ENCASED CASTING COLLAR (EACH)	2540.602 CONSTRUCT SURVEY MONUMENT (EACH)	REMARKS
WILDBERRY CIRCLE														
1502+32	RIGHT							1						CB0560077
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0.0**	**0**	**0**	

PAVEMENT MARKING — H

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)	REMARKS
WILDBERRY CIRCLE												
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

TEMPORARY EROSION CONTROL — F

△2

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	REMARKS
WILDBERRY CIRCLE						
1500+45 TO 1502+77				0.03	1	ESTIMATED AREA = 860 SQ FT
1500+90	LEFT	1				CB0560078B
1501+58	LEFT	1				CB0560078A
1502+27	LEFT	1				CB0560078
PROJECT ITEM TOTALS		**3**	**0**	**0.03**	**1**	

EARTHWORK — J

STATION TO STATION	LOCATION	2105.607 COMMON EXCAVATION (CU YD)	2105.607 COMMON BORROW (CV) (CU YD)	REMARKS
WILDBERRY CIRCLE				
PROJECT ITEM TOTALS		**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

WILDBERRY CIRCLE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 202

PLOT DATE: Apr 11, 2025 - 7:54pm
FILENAME: K:\ta-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\1500 Wildberry Cir Tabulations.dwg

CONCRETE

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)	E REMARKS
TWIN CREEKS CIRCLE													
								338			39		
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**338**	**0**	**0**	**39**	**0**	

SITE FURNISHINGS

STATION TO STATION	LOCATION	2557.602 INSTALL VEHICULAR GATE (EACH)	I REMARKS
TWIN CREEKS CIRCLE			
(NONE)			
PROJECT ITEM TOTALS		**0**	

ENCASEMENT & REPAIR

STATION TO STATION	LOCATION	2504.602 ADJUST CURB BOX (EACH)	2504.602 ADJUST CURB STOP (EACH)	2504.602 ADJUST VALVE BOX (EACH)	2504.602 ADJUST VALVE BOX (SPECIAL) (EACH)	2504.602 ADJUST CURB STOP (EACH)	2504.602 ADJUST VALVE BOX (EACH)	2504.602 CONCRETE ENCASED VALVE BOX COLLAR (EACH)	2506.502 CASTING ASSEMBLY (EACH)	2506.502 ADJUST FRAME & RING CASTING (EACH)	2506.502 ADJUST FRAME & RING CASTING (SPECIAL) (EACH)	2506.602 REPAIR DRAINAGE STRUCTURE (EACH)	2506.503 RECONSTRUCT DRAINAGE STRUCTURE (LIN FT)	2506.602 CONCRETE ENCASED CASTING COLLAR (EACH)	2540.602 CONSTRUCT SURVEY MONUMENT (EACH)	G REMARKS
TWIN CREEKS CIRCLE																
1700+33	LEFT						1	1								
1701+30	LEFT									1		1				CB0560088
1701+32	RIGHT									1						CB0560089
1701+46	CENTER													1		SA0560099
1702+86	LEFT													1		SA0560100
1703+62	CENTER													1		SA0560101
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**1**	**1**	**0**	**2**	**0**	**1**	**0.0**	**3**	**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
TWIN CREEKS CIRCLE												
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

TEMPORARY EROSION CONTROL

2

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2575.602 EROSION CONTROL MOBILIZATION (EACH)	2575.602 SITE RESTORATION (EACH)	F REMARKS
TWIN CREEKS CIRCLE						
ENTIRE PROJECT AREA		2		0.03	1	ESTIMATED AREA = 963 SQ FT
PROJECT ITEM TOTALS		**2**	**0**	**0.03**	**1**	

EARTHWORK

STATION TO STATION	LOCATION	2105.607 COMMON EXCAVATION (CU YD)	2105.607 COMMON BORROW (CV) (CU YD)	J REMARKS
TWIN CREEKS CIRCLE				
PROJECT ITEM TOTALS		**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

TWIN CREEKS CIRCLE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 211

PLOT DATE: Apr 11, 2025 - 8:04pm
FILENAME: K:\ta-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\1700 Twin Creeks Cir Tabulations.dwg

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
		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
STATION TO STATION	LOCATION	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	
STANFORD AVENUE																						
2106+78 TO 2107+30	RIGHT							52														
2107+73 TO 2108+16	RIGHT							43														
2121+38 TO 2126+64	RIGHT							485														
2121+40 TO 2126+64	LEFT							525														
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**1105**	**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
		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
STATION TO STATION	LOCATION	EACH	EACH	EACH	EACH	EACH	EACH	
STANFORD AVENUE								
PROJECT ITEM TOTALS		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**		

CONCRETE

		2301.502	2301.602	2301.602	2411.607	2521.518	2521.518	2531.503	2531.503	2531.503	2531.504	2531.618	E
		DOWEL BAR	DRILL & GROUT DOWEL BAR (EPOXY COATED)	DRILL & GROUT REINF BAR (EPOXY COATED)	CONCRETE STEPS	4" CONCRETE WALK	6" CONCRETE WALK	CONCRETE CURB & GUTTER DESIGN B624	CONCRETE CURB & GUTTER DESIGN S424	CONCRETE CURB DESIGN V6	8" CONCRETE DRIVEWAY PAVEMENT	TRUNCATED DOMES	REMARKS
STATION TO STATION	LOCATION	EACH	EACH	EACH	CU YD	SQ FT	SQ FT	LIN FT	LIN FT	LIN FT	SQ YD	SQ FT	
STANFORD AVENUE													
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

2

TEMPORARY EROSION CONTROL

		2573.502	2573.502	2573.602	2575.602	F
		STORM DRAIN INLET PROTECTION	CULVERT END CONTROLS	EROSION CONTROL MOBILIZATION	SITE RESTORATION	REMARKS
STATION TO STATION	LOCATION	EACH	EACH	LUMP SUM	EACH	
STANFORD AVENUE						
2109+95 TO 2126+64				0.04	1	ESTIMATED AREA = 1000 SQ FT
PROJECT ITEM TOTALS		**0**	**0**	**0.04**	**1**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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

STANFORD AVENUE TABULATIONS

TKDA PROJ. NO. 22008.000
DRAWING NO. 215

PLOT DATE: Apr 11, 2025 - 8:10pm
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\2100 Stanford Ave Tabulations.dwg

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
WEST OLIVE STREET													
2200+11 TO 2211+98													
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

2

TEMPORARY EROSION CONTROL — F

STATION TO STATION	LOCATION	2573.502 STORM DRAIN INLET PROTECTION (EACH)	2573.502 CULVERT END CONTROLS (EACH)	2573.602 EROSION CONTROL MOBILIZATION (LUMP SUM)	2575.602 SITE RESTORATION (EACH)	REMARKS
WEST OLIVE STREET						
2200+11 TO 2212+98				0.03	1	ESTIMATED AREA = 500 SQ FT
PROJECT ITEM TOTALS		**0**	**0**	**0.03**	**1**	

ENCASEMENT & REPAIR — G

STATION TO STATION	LOCATION	2504.602 ADJUST CURB BOX (EACH)	2504.602 ADJUST CURB STOP (EACH)	2504.602 ADJUST VALVE BOX (EACH)	2504.602 ADJUST VALVE BOX (SPECIAL) (EACH)	2504.602 CONCRETE ENCASED VALVE BOX COLLAR (EACH)	2506.502 CASTING ASSEMBLY (EACH)	2506.502 ADJUST FRAME & RING CASTING (EACH)	2506.502 ADJUST FRAME & RING CASTING (SPECIAL) (EACH)	2506.502 REPAIR DRAINAGE STRUCTURE (EACH)	2506.503 RECONSTRUCT DRAINAGE STRUCTURE (LIN FT)	2506.602 CONCRETE ENCASED CASTING COLLAR (EACH)	2540.602 CONSTRUCT SURVEY MONUMENT (EACH)	REMARKS
WEST OLIVE STREET														
2201+82	CENTER										2	1		SA0690050
2205+38	LEFT							1						SA0690070
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1.5**	**1**	**0**	

PAVEMENT MARKING — H

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)	REMARKS
WEST OLIVE STREET												
2200+11 TO 2211+98												
PROJECT ITEM TOTALS		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

SITE FURNISHINGS — I

STATION TO STATION	LOCATION	2557.602 INSTALL VEHICULAR GATE (EACH)	REMARKS
WEST OLIVE STREET			
2200+11 TO 2211+98			
PROJECT ITEM TOTALS		**0**	

EARTHWORK — J

STATION TO STATION	LOCATION	2105.607 COMMON EXCAVATION (CU YD)	2105.607 COMMON BORROW (CV) (CU YD)	REMARKS
WEST OLIVE STREET				
2200+11 TO 2211+98				
PROJECT ITEM TOTALS		**0**	**0**	

NO.	DATE	BY	DESCRIPTION OF REVISIONS
2	4/14/25	ERM	ADDENDUM 3 - REVISE TAB F
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. 222

PLOT DATE: Apr 11, 2025 - 8:16pm
FILENAME: K:\a-f\Duluth_City\22008000\04_Production\01_CAD\02_Sheets\2200 Olive St Tabulations.dwg