

					STAGE 1 KENT ROAD TO NORTON STREET			STAGE 2 NORTON STREET TO ARROWHEAD ROAD			TOTAL QUANTITY
LINE NO.		SPEC. NO.	ITEM DESCRIPTION	UNIT OF MEASURE	PARTICIPATING QUANTITIES	STORM SEWER QUANTITIES	NON-PARTICIPATING QUANTITIES	PARTICIPATING QUANTITIES	STORM SEWER QUANTITIES	NON-PARTICIPATING QUANTITIES	
55		2504.601	TEMPORARY WATER SERVICE	LUMP SUM	-	-	0.60	-	-	0.40	1.00
56		X 2504.602	0.75" TAPPING TEE WITH ELECTROFUSION SADDLE	EACH	-	-	36.00	-	-	40.00	76.00
57		X 2504.602	1.0" TAPPING TEE WITH ELECTROFUSION SADDLE	EACH	-	-	2.00	-	-	-	2.00
58		X 2504.602	1.25" TAPPING TEE WITH ELECTROFUSION SADDLE	EACH	-	-	2.00	-	-	-	2.00
59		X 2504.602	2.00" TAPPING TEE WITH ELECTROFUSION SADDLE	EACH	-	-	-	-	-	1.00	1.00
60		X 2504.602	0.75" CURB STOP & BOX	EACH	-	-	36.00	-	-	40.00	76.00
61		X 2504.602	1.0" CURB STOP & BOX	EACH	-	-	2.00	-	-	-	2.00
62		X 2504.602	1.25" CURB STOP & BOX	EACH	-	-	2.00	-	-	-	2.00
63		X 2504.602	2.00" CURB STOP & BOX	EACH	-	-	-	-	-	1.00	1.00
64	15	Y 2504.602	HYDRANT	EACH	-	-	7.00	-	-	6.00	13.00
65		Z 2504.602	8" GATE VALVE AND BOX	EACH	-	-	5.00	-	-	3.00	8.00
66		Z 2504.602	10" GATE VALVE AND BOX	EACH	-	-	8.00	-	-	8.00	16.00
67		Z 2504.602	CONNECT TO EXISTING WATERMAIN	EACH	-	-	8.00	-	-	6.00	14.00
68		X 2504.602	CONNECT TO EXISTING WATER SERVICE	EACH	-	-	40.00	-	-	41.00	81.00
69		X 2504.602	MAGNETIZED TRACER BOX	EACH	-	-	40.00	-	-	41.00	81.00
70		X 2504.603	3/4" HDPE SDR 11 TAP SERVICE PIPE	LIN FT	-	-	1,433.00	-	-	1,558.00	2,991.00
71		X 2504.603	1.0" HDPE SDR 11 TAP SERVICE PIPE	LIN FT	-	-	70.00	-	-	-	70.00
72		X 2504.603	1.25" HDPE SDR 11 TAP SERVICE PIPE	LIN FT	-	-	91.00	-	-	-	91.00
73		X 2504.603	2.00" HDPE SDR 11 TAP SERVICE PIPE	LIN FT	-	-	-	-	-	24.00	24.00
74		Z 2504.603	10" WATERMAIN DUCTILE IRON CL 52	LIN FT	-	-	73.40	-	-	-	73.40
75		Z 2504.603	8" DIPS HDPE WATERMAIN SDR 11	LIN FT	-	-	322.40	-	-	221.20	543.60
76		Z 2504.603	10" DIPS HDPE WATERMAIN SDR 11	LIN FT	-	-	2,927.20	-	-	3,253.40	6,180.60
77		AA 2504.604	3" POLYSTYRENE INSULATION	SQ YD	-	-	5.40	-	-	412.50	417.90
78	16	2504.608	WATERMAIN FITTINGS	POUND	-	-	525.00	-	-	-	525.00
79		V 2506.501	CONSTRUCT DRAINAGE STRUCTURE DESIGN 4007C	LIN FT	-	-	126.00	-	-	53.40	179.40
80		U 2506.501	CONSTRUCT DRAINAGE STRUCTURE DESIGN G	LIN FT	-	30.36	-	-	25.73	-	56.09
81		U 2506.501	CONSTRUCT DRAINAGE STRUCTURE DESIGN F	LIN FT	-	135.21	-	-	50.93	-	186.14
82		U 2506.501	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020	LIN FT	-	4.29	-	-	-	-	4.29
83		U 2506.501	CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020	LIN FT	-	3.78	-	-	-	-	3.78
84		V 2506.501	CONSTRUCT DRAINAGE STRUCTURE - SPECIAL 1	LIN FT	-	-	-	-	-	17.30	17.30
85		V 2506.501	CONSTRUCT DRAINAGE STRUCTURE - SPECIAL 2	LIN FT	-	-	-	-	-	9.50	9.50
86	17	U,V 2506.516	CASTING ASSEMBLY	EACH	-	40.00	13.00	-	17.00	8.00	78.00
87		V 2506.602	MANHOLE FRAME SEAL	EACH	-	-	13.00	-	-	8.00	21.00
88		U 2506.602	CONNECT TO EXISTING STORM SEWER	EACH	-	7.00	-	-	-	-	7.00
89	18	2511.501	RANDOM RIP RAP CLASS II	CU YD	-	10.00	-	-	-	-	10.00
90		BB 2521.501	4" CONCRETE WALK	SQ FT	34,557.00	-	-	19,362.00	-	-	53,919.00
91		CC 2521.501	7" CONCRETE WALK	SQ FT	1,683.00	-	-	1,485.00	-	-	3,168.00
92	19	BB 2521.501	6" CONCRETE WALK SPECIAL	SQ FT	3,854.00	-	-	-	-	-	3,854.00
93		2531.501	CONCRETE CURB AND GUTTER DESIGN B624	LIN FT	6,300.00	-	-	3,680.00	-	-	9,980.00
94		2531.501	CONCRETE CURB AND GUTTER DESIGN B612	LIN FT	-	-	-	83.00	-	-	83.00
95		DD 2531.507	7" CONCRETE DRIVEWAY PAVEMENT	SQ YD	621.50	-	-	944.90	-	-	1,566.40
96	20	2531.521	STRUCTURAL CONCRETE	CU YD	-	-	-	28.00	-	-	28.00
97		CC 2531.618	TRUNCATED DOMES	SQ FT	136.00	-	-	120.00	-	-	256.00
98		EE 2540.602	INSTALL MONUMENT BOX	EACH	7.00	-	-	4.00	-	-	11.00
99	21	2545.509	CONDUIT SYSTEM (TELEPHONE)	LUMP SUM	0.70	-	-	0.30	-	-	1.00
100		FF 2550.514	FIBEROPTIC SPLICE VAULT	EACH	4.00	-	-	2.00	-	-	6.00
101		2563.601	TRAFFIC CONTROL	LUMP SUM	0.48	0.07	0.14	0.22	0.03	0.06	1.00
102		2563.601	DETOUR SIGNING	LUMP SUM	0.48	0.07	0.14	0.22	0.03	0.06	1.00
103		GG 2564.533	FURNISH SIGN PANELS, TYPE C	SQ FT	102.50	-	-	51.90	-	-	154.40
104		GG 2564.536	INSTALL SIGN PANELS, TYPE C	EACH	31.00	-	-	20.00	-	-	51.00
105		2565.511	TRAFFIC CONTROL SIGNAL SYSTEM	SIGNAL SYSTEM	0.50	-	-	0.50	-	-	1.00
106		HH 2573.502	SILT FENCE, TYPE HEAVY DUTY	LIN FT	1,664.00	-	-	544.00	-	-	2,208.00
107		II 2573.530	STORM DRAIN INLET PROTECTION	EACH	38.00	-	-	20.00	-	-	58.00
108		JJ 2573.540	FILTER LOG TYPE ROCK LOG	LIN FT	103.00	-	-	26.00	-	-	129.00
109		KK 2573.602	TEMPORARY ROCK CONSTRUCTION ENTRANCE	EACH	10.00	-	-	5.00	-	-	15.00
110		LL 2573.602	ROCK DITCH CHECK	EACH	5.00	-	-	5.00	-	-	10.00
111		2573.602	TEMPORARY SEDIMENT TRAP	EACH	1.00	-	-	1.00	-	-	2.00
112		MM 2575.505	SODDING TYPE LAWN	SQ YD	3,942.00	-	-	1,638.00	-	-	5,580.00
113	22	2575.501	SEEDING	ACRE	2.10	-	-	1.20	-	-	3.30
114		2575.502	SEED MIXTURE 150	POUND	105.00	-	-	60.00	-	-	165.00
115	22	2575.511	MULCH MATERIAL TYPE 1	TON	4.20	-	-	2.40	-	-	6.60
116		2580.803	INTERIM PAVEMENT MARKING	LIN FT	24,600.00	-	-	10,500.00	-	-	35,100.00
117		2582.501	PAVT MSSG (LT ARROW) POLY PREFORM (GROUND IN)	EACH	6.00	-	-	8.00	-	-	14.00
118		2582.502	24" STOP LINE WHITE- POLY PREFORM (GROUND IN)	LIN FT	800.00	-	-	500.00	-	-	1,300.00
119		2582.502	4" SOLID LINE WHITE- EPOXY	LIN FT	7,000.00	-	-	3,100.00	-	-	10,100.00
120		2582.502	4" BROKEN LINE WHITE- EPOXY	LIN FT	1,000.00	-	-	500.00	-	-	1,500.00
121		2582.502	4" DOUBLE SOLID LINE YELLOW - EPOXY	LIN FT	3,300.00	-	-	1,484.90	-	-	4,784.90
122		2582.502	12" SOLID LINE WHITE - EPOXY	LIN FT	1,294.00	-	-	827.00	-	-	2,121.00
123		2582.502	12" SOLID LINE YELLOW - EPOXY	LIN FT	1,000.00	-	-	500.00	-	-	1,500.00
124		2582.502	24" SOLID LINE YELLOW - EPOXY	LIN FT	1,000.00	-	-	500.00	-	-	1,500.00

CONSTRUCTION NOTES:

- 15) Hydrant item includes "Hydrant Assembly" as defined in Duluths 2009 standard construction specifications.
 16) Fitting weight based on (1) 10"x10" Tee, (2) 45 degree Bends and (1) 16"x10" Reducer.
 17) Includes (51) 5005, (5) 5010, (20) 5020 and (2) 5200 castings.
 18) To be placed at the end of 15" RC pipe apron on elizabeth street.

- 19) Pervious concrete with coarse filter aggregate bedding material.
 20) Item to be used to construct reinforced concrete retaining wall.
 21) Based on (6) 4" schedule 40 conduits encased in concrete.
 22) Items to be used to temporary seed and mulch areas to satisfy MPCA permit.

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

DAVID G. BOLF
PRINTED NAME

4/22/09
DATE
40926
REG. NO.
NO DATE REVISION BY

WOODLAND AVENUE
STATEMENT OF ESTIMATED QUANTITIES

3R
SHEET 3 OF 166
E1853
DATE MAR. 2009

S.A.P. 118-157-020
ENGINEERS • SURVEYORS • PLANNERS
SALO ENGINEERING, INC.
4560 Norway Pines Place • Duluth, Minnesota 55811 • 218/727-8796