


BREEDLOVE LAND PLANNING, INC. PIPECHART										PROJECT: RIVERWOOD HIGH SCHOOL PHASE 3-B									
YEAR STORM EVENT: 25										PROJECT LOCATION: SANDY SPRINGS, GA									
Upstream Structure	Downstream Structure	Drainage Area	c-factor	Inlet Time	Q	Total Q	Capacity	Pipe Size	Slope	n-value	Velocity	Depth	Inv. Up	Inv. Dn	HGL Up	HGL Dn			
SMF 1A	A4	0.00	0.00	0	31.15	31.15	149.80	48	1.09	0.013	7.88	1.24	942.00	941.50	943.66	942.74			
A4	A3	0.00	0.00	0	0.00	31.15	144.08	42	2.05	0.013	9.27	1.11	941.00	940.50	942.72	941.61			
A3	A2	0.00	0.00	0	0.00	31.15	119.48	42	1.41	0.013	8.52	1.22	934.70	934.20	936.42	935.42			
A2a	A2	0.14	0.86	5	1.01	1.01	7.97	15	1.82	0.013	3.74	0.30	937.04	934.75	937.43	935.05			
A1	A1	0.00	0.00	0	0.00	32.13	100.99	42	1.01	0.013	6.67	1.75	930.10	930.00	931.85	931.75			
B13	B12	0.04	0.95	5	0.32	0.32	21.91	18	4.35	0.013	3.30	0.13	975.20	971.80	975.41	971.93			
B12	B11	0.16	0.88	5	1.18	1.47	10.79	18	1.06	0.013	2.89	0.55	970.10	969.40	970.55	969.95			
B11	B10	0.27	0.86	5	1.50	2.90	10.74	18	1.05	0.013	3.08	1.05	969.30	969.10	969.95	970.15			
B10b	B10a	0.93	0.82	5	4.84	4.84	9.14	18	2.58	0.024	4.98	0.78	974.03	973.80	974.87	974.38			
B10a	B10	0.00	0.00	0	0.00	4.82	26.00	18	6.13	0.013	5.07	0.75	973.00	969.40	973.84	970.15			
B10	B9	0.28	0.83	5	1.37	8.87	10.80	18	1.02	0.013	6.40	1.05	969.00	968.20	970.15	969.25			
B9c	B9b	0.19	0.95	5	1.51	1.51	10.50	18	1.00	0.013	2.63	0.67	970.00	969.30	970.46	969.97			
B9b	B9a	0.43	0.73	5	2.83	4.08	10.86	18	1.03	0.013	4.56	0.74	969.20	968.20	969.97	968.94			
B9a	B9	0.21	0.49	5	0.86	4.83	10.69	18	1.04	0.013	4.72	0.84	968.10	968.70	968.94	967.54			
B9	B8	0.16	0.50	5	0.87	13.93	22.74	24	1.01	0.013	6.28	1.32	968.20	965.10	967.54	966.42			
B8	B7	0.30	0.75	5	1.89	15.48	23.36	24	1.07	0.013	7.22	1.19	965.00	964.20	966.42	965.39			
B7y	B7x	0.17	0.74	5	1.06	1.06	11.58	18	1.22	0.013	3.52	0.31	969.90	969.70	970.28	970.01			
B7x	B7	0.28	0.80	5	1.88	2.92	10.37	18	3.32	0.024	4.52	0.55	965.00	961.90	965.65	962.45			
B7c	B7b	0.48	0.81	5	3.28	3.28	11.12	18	1.12	0.013	4.08	0.70	964.50	963.70	965.19	964.40			
B7b	B7a	0.16	0.88	5	1.18	4.37	10.53	18	1.01	0.013	4.68	0.77	963.60	962.90	964.40	963.67			
B7a	B7	0.10	0.95	5	0.80	5.08	11.84	18	1.27	0.013	5.62	0.89	962.80	962.50	963.67	963.19			
B7	B6	0.00	0.00	0	0.00	22.77	40.97	30	1.00	0.013	6.83	1.59	960.50	960.00	962.12	961.59			
B6	B5	0.28	0.95	5	2.23	24.84	95.52	30	5.42	0.013	7.12	1.83	959.90	953.00	961.59	954.83			
B5e	B5	0.28	0.83	5	1.81	1.81	14.03	18	1.79	0.013	4.46	0.36	956.50	956.00	957.01	956.36			
B5	B4	0.00	0.00	0	0.00	25.88	47.64	30	1.35	0.013	6.78	1.92	952.90	952.80	954.83	954.52			
B4	B3	1.38	0.95	5	11.00	35.81	60.71	30	2.19	0.013	8.58	1.92	952.50	951.50	954.52	953.42			
B3	B2	0.00	0.00	0	0.00	35.47	61.15	30	2.22	0.013	8.57	1.91	951.40	949.70	953.42	951.61			
B2	B1	0.00	0.00	0	0.00	35.25	41.04	30	1.00	0.013	8.86	1.79	949.60	948.70	951.61	950.49			
B1	SMF 1A	0.00	0.00	0	0.00	34.98	77.85	48	1.00	0.024	4.01	2.71	945.20	945.00	947.74	947.71			
C5	C4	0.82	0.93	5	8.40	6.40	10.50	18	1.00	0.013	5.74	0.85	949.00	948.20	949.98	949.05			
C4	C3	1.00	0.89	5	7.47	13.66	28.61	24	1.80	0.013	6.82	1.13	946.70	946.50	948.03	947.63			
C3	C2	0.00	0.00	0	0.00	13.83	17.88	24	0.82	0.013	5.90	1.44	946.30	946.20	947.63	947.64			
C2	C1	0.00	0.00	0	0.00	13.58	12.25	24	1.00	0.024	5.83	1.33	946.00	945.90	947.57	947.23			
D7e	D7	3.83	0.70	5	21.32	21.32	22.87	24	1.02	0.013	7.98	1.53	946.67	946.80	948.52	948.13			
D8	D7	0.80	0.84	5	5.64	5.64	13.77	18	1.72	0.013	6.19	0.87	949.50	949.00	950.42	949.87			
D7	D6	0.00	0.00	0	0.00	26.79	32.24	30	0.82	0.013	7.29	1.74	946.00	945.90	947.76	947.84			
D6	D5	0.00	0.00	0	0.00	26.73	32.42	30	0.82	0.013	7.24	1.78	945.80	945.70	947.56	947.46			
D5	D4	0.00	0.00	0	0.00	26.88	36.89	30	0.80	0.013	7.47	1.68	945.70	945.60	947.46	947.28			
D4	D3	0.00	0.00	0	0.00	26.84	41.45	30	1.02	0.013	8.09	1.46	945.50	944.70	947.28	946.16			
D3	D2	0.00	0.00	0	0.00	26.38	74.71	24	10.91	0.013	9.02	1.73	943.37	923.89	945.18	925.42			
D2	D1	0.53	0.63	5	2.80	28.70	41.48	30	1.02	0.013	7.51	1.81	923.59	923.38	925.42	925.19			
E16	E15	0.24	0.95	5	1.91	1.91	7.49	18	0.51	0.013	3.27	0.58	945.50	945.20	946.02	945.78			
E15	E14	0.13	0.95	5	1.04	2.84	7.49	18	0.51	0.013	3.94	0.64	945.10	944.80	945.74	945.44			
E14	E13	0.10	0.95	5	0.80	3.53	7.67	18	0.53	0.013	3.29	1.19	944.70	944.45	945.42	945.64			
E13	E12	0.12	0.95	5	0.96	4.37	7.43	18	0.50	0.013	2.81	1.46	944.35	944.10	945.62	945.56			
E12	E11	0.11	0.79	5	0.73	4.98	7.85	18	0.53	0.013	2.84	1.47	944.00	943.96	945.44	945.43			
E11	E10	0.00	0.00	0	0.00	4.97	5.08	18	0.80	0.024	2.83	1.50	943.86	943.20	945.31	944.72			
E10	E9	0.10	0.71	5	0.80	5.43	4.84	18	0.72	0.024	3.07	1.50	943.20	943.00	944.70	944.50			
E9	E8	0.00	0.00	0	0.00	5.40	9.10	18	2.56	0.024	5.14	0.83	942.95	941.90	943.84	942.73			
E8	E7	1.19	0.74	5	7.39	11.92	22.58	24	1.00	0.013	6.56	1.03	941.00	940.30	942.24	941.33			
E7	E6	0.19	0.78	5	1.21	12.86	34.86	24	2.38	0.013	6.43	1.15	938.75	937.72	940.04	938.87			
E6	E5	0.17	0.74	5	1.06	13.71	53.33	30	1.89	0.013	4.20	2.50	937.63	935.40	938.87	937.91			
E5	E4	0.21	0.86	5	1.52	14.85	28.72	30	0.49	0.013	2.98	2.50	935.29	935.02	937.87	937.80			
E4	E3	0.00	0.00	0	0.00	14.50	25.74	30	0.39	0.013	2.95	2.50	934.92	934.82	937.87	937.84			
E3	E2	0.00	0.00	0	0.00	14.44	0.00	36	0.00	0.013	2.04	3.00	934.62	934.62	937.83	937.82			
E2	E1	0.00	0.00	0	0.00	14.38	31.89	36	0.23	0.013	4.89	1.34	934.42	934.40	935.77	935.74			
F3	F2	0.88	0.84	5	4.79	4.79	22.70	24	1.01	0.013	3.81	0.94	968.40	968.00	969.17	968.94			
F2	F1	0.48	0.95	5	3.83	8.47	24.50	24	1.17	0.013	6.12	0.81	967.90	967.70	968.94	968.71			
F1	EX	0.00	0.00	0	0.00	8.43	62.12	24	7.54	0.013	5.16	1.03	965.50	965.00	966.53	965.83			
G4	G3	3.28	0.84	5	17.61	17.61	29.20	24	1.87	0.013	7.50	1.31	940.00	939.50	941.51	940.81			
G3	G2	0.00	0.00	0	0.00	17.55	24.98	24	1.22	0.013	7.17	1.41	939.30	939.10	940.81	940.51			
G2	G1	0.00	0.00	0	0.00	17.51	22.47	24	0.99	0.013	6.94	1.49	939.00	938.90	940.51	940.39			
H3	H2	1.56	0.73	5	9.55	9.55	10.51	18	1.00	0.013	6.54	1.12	960.50	960.00	961.89	961.69			
H2	H1	0.00	0.00	0	0.00	9.49	32.65	18	9.87	0.013	11.16	0.55	975.50	975.00	976.69	972.00			
H1d	H1c	0.24	0.95	5	1.91	1.91	7.38	18	1.88	0.024	3.49	0.52	970.80	970.57	971.32	971.09			
H1c	H1b	0.00	0.00	0	0.00	1.90	13.87	18	1.74	0.013	2.54	0.96	970.07	969.87	970.59	970.48			
H1b2	H1b1	0.34	0.95	5	2.71	2.71	11.54	18	1.21	0.013	4.81	0.49	978.50	978.30	978.82	978.09			
H1b1a	H1b1	0.57	0.95	5	4.54	4.54	7.72	15	4.87	0.024	5.78	0.71	978.50	978.39	978.78	978.68			
H1b1	H1b	0.00	0.00	0	0.00	7.15	12.35	18	4.71	0.024	6.37	0.71	972.80	970.30	973.90	971.12			
H1b	H1a	0.22	0.73	5	1.36	10.22	23.83	24	1.11	0.013	6.00	0.71	969.34	968.95	970.48	969.57			
H1a	H1	0.00	0.00	0	0.00	10.09	29.29	30	0.51	0.013	1.57	1.57	968.15	967.84	969.21	969.41			
H1	EX	0.42	0.75	5	2.84	21.39	31.04	30	1.57	0.013	6.15	1.57	967.91	967.27	969.41	968.84			


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