HYDRAULIC DATA — PROJECT: Twin Chimneys - Village D — SHEET 1 OF 2

LINE Upper Station	LINE Lower Station	Length	Size	Upper Flow Line	Lower Flow Line	F.L. Grade	Upper Sl. Elev.	Lower Sl. Elev.	Depth Sl. to Hy. Gr. Upper End	Upper Hy. Elev.	Lower Hy. Elev.	Hy. Grade	Frict. Head	Velocity ft/sec	$\frac{V^2}{2g}$ Vel. Head	$\frac{V^2}{2g}$ Vel. Head	Turn Loss	Upper Ground Elev.	Lower Ground Elev.	Area Acres	P.I.	Quantity Cu.ft./sec	Rainfall T.Q.	Rainfall Quantity Cu.ft./sec
C1002	C1003	110'	15"	560.0	559.70	0.3	554.8	554.70	3.20	557.94	FULL 559.05 FULL 557.85	0.0027	0.24	1.02	0.02	—	—	567.47	567.20	0.52	2.4	1.25	1.25	9.14
C1003	C1501	95'	15"	559.80	559.30	0.5	554.70	554.70	3.77	557.85	FULL 557.85	0.0053	0.20	1.89	0.09	.07	.06	Low	4.0	0.70	2.4	1.68	2.93	9.14
C1501	A3 C1501	123'	12"	559.30	558.68	0.5	554.70	—	4.60	558.46	FULL 558.46	0.0101	1.48	4.98	0.38	.29	.85	Low	4.0	0.41	2.4	0.98	3.91	11.64
											SEE PAGE		SEC. HEAD CONTINUATION											
A1003	A1004	140'	12"	561.00	559.60	1.4	554.5	555.0	4.50	558.78	FULL 559.00	0.0014	0.34	2.23	0.08	—	—	566	8.0	0.78	2.4	1.75	1.75	5.52
A1004	P&L A1004	35'	12"	559.64	559.08	0.6	555.0	554.93	4.66	559.71	FULL 559.71	0.0000	0.09	6.25	0.63	.85	.54	55	12.0	(0.42) 2.78	2.4	(1.67) 1.60	4.99	9.76
											SEE PAGE		COLLECTIVE LOOP CONTINUATION											
C1007	P&L C1005	110'	12"	559.91	559.64	0.27	554.05	554.7	5.14	559.05	FULL 559.91 FULL 559.05	0.0025	0.18	1.89	0.05	—	—	Low	4.0	0.60	2.4	1.44	1.44	8.51
A1010	A1007	145'	12"	564.00	561.10	2.9	559.5	560.3	4.50	559.81	FULL 559.00 FULL 557.10	0.0131	1.29	4.33	0.28	—	—	55	12.0	1.4	2.4	2.36	2.36	5.04
A1009	A1007	60'	18"	559.10	561.00	1.9	554.3	560.3	8.20	559.11	557.10	0.0333	1.36	4.82	0.28	.46	.88	55	12.0	(0.84) 1.26	2.4	(1.51) 2.26	2.26	10.89
											SEE PAGE		COLLECTIVE LOOP CONTINUATION											
A1011	C1007	90'	12"	564.10	561.10	3.0	559.5	560.3	4.05	560.20	FULL 561.10	0.0111	0.10	1.31	0.04	—	—	Low	4.0	0.39	2.4	1.18	1.18	11.27
A1014	A1013	175'	12"	578.80	568.75	10.0	574.8	564.8	5.00	565.53	FULL 575.50 FULL 569.75	0.0343	0.78	2.18	0.13	—	—	76	12.0	0.94	2.4	2.26	2.26	7.97
A1012	A1013	190'	15"	568.75	559.95	8.8	564.8	564.8	4.75	564.68	FULL 564.78	0.0053	0.73	3.27	0.17	.64	.11	55	12.0	0.78	2.4	1.75	4.01	9.14
C1012	P&L C1011	150'	12"	559.95	557.75	2.2	554.6	—	5.17	555.94	FULL 558.95	0.0133	6.99	9.79	1.49	1.09	.86	Low	4.0	1.53	2.4	3.08	7.68	10.08

Computed By: Tom Gillette Date: 8-7-68 Checked By: _____ Date: _____

Pickett, Ray & Silver, inc.

HYDRAULIC DATA — PROJECT: Twin Chimneys - Village D — SHEET 2 OF 2

LINE Upper Station	LINE Lower Station	Length	Size	Upper Flow Line	Lower Flow Line	F.L. Grade	Upper Sl. Elev.	Lower Sl. Elev.	Depth Sl. to Hy. Gr. Upper End	Upper Hy. Elev.	Lower Hy. Elev.	Hy. Grade	Frict. Head	Velocity ft/sec	$\frac{V^2}{2g}$ Vel. Head	$\frac{V^2}{2g}$ Vel. Head	Turn Loss	Upper Ground Elev.	Lower Ground Elev.	Area Acres	P.I.	Quantity Cu.ft./sec	Rainfall T.Q.	Rainfall Quantity Cu.ft./sec
A1001	A1002	75'	12"	568.00	567.75	0.2	563.7	563.8	3.70	568.00	FULL 568.00 FULL 568.15	0.0013	0.11	1.62	0.03	—	—	85	12.0	0.53	2.4	1.27	1.27	8.56
A1000	A1002	30'	12"	567.75	566.85	1.0	563.8	563.8	4.85	568.00	FULL 568.04	0.0013	0.04	1.62	0.04	—	—	85	—	—	—	—	1.27	8.56
C1019	A1002	24'	15"	566.95	566.81	0.1	563.8	563.8	4.18	567.58	FULL 567.51	0.0029	0.07	2.40	0.09	.05	.05	Low	4.0	0.70	2.4	1.68	2.95	6.46
C1018	C1019	130'	15"	566.21	565.71	0.5	563.8	563.8	4.71	566.29	FULL 566.71	0.0038	0.58	3.52	0.19	.10	—	Low	4.0	0.27	2.4	1.87	4.32	15.82
A1017	C1018	115'	18"	564.71	564.06	0.7	563.8	563.8	4.29	564.76	FULL 564.16	0.0057	0.93	5.05	0.39	—	.12	85	12.0	1.90	2.4	4.56	9.88	14.09
C1016	C1018	24'	18"	564.03	563.91	0.1	563.8	563.8	5.44	563.87	563.83	0.0167	0.24	3.78	0.55	.16	—	Low	4.0	0.47	2.4	1.61	10.49	14.09
C1015	C1016	98'	18"	564.32	563.62	0.7	563.8	563.8	6.05	563.25	FULL 563.77	0.0128	0.89	4.52	0.44	.11	.36	Low	4.0	0.43	2.4	1.03	11.52	14.09
C1014	P&L C1013	103'	12"	566.48	564.95	1.5	563.8	563.9	11.23	563.71	FULL 561.48	0.0120	1.26	6.92	0.66	—	.86	—	—	—	—	—	11.52	14.41
A1013	C1013	35'	18"	567.95	567.06	0.89	563.8	563.8	7.45	564.13	563.84	0.0143	0.69	7.70	0.92	.26	—	86	12.0	0.87	2.4	2.09	13.61	24.27
											SEE PAGE		COLLECTIVE LOOP CONTINUATION											
C1022	C1024	188'	12"	564.00	559.65	4.4	557.00	556.0	7.50	564.80	FULL 564.69	0.0018	0.23	1.32	0.06	—	—	Low	4.0	0.43	2.4	1.51	1.51	6.57
A1024	A1023	95'	12"	559.65	556.35	3.3	556.0	556.1	4.85	558.99	557.45	0.0162	1.17	5.04	0.39	.33	.16	86	8.0	1.02	2.4	2.45	3.96	6.57
C1023	C1024	95'	12"	556.42	553.87	2.5	556.1	556.1	4.38	555.94	554.15	0.0189	1.91	7.06	0.77	.38	.20	86	8.0	0.46	2.4	1.58	5.54	6.57
											SEE PAGE		COLLECTIVE CONTINUATION											
C1022	C1021	83'	15"	564.00	564.42	1.0	560.82	560.82	4.27	560.82	FULL 574.71	0.0000	0.01	1.84	0.21	—	—	Low	4.0	0.43	2.4	1.03	1.03	6.46
C1021	C1020	130'	15"	564.44	563.26	1.0	560.82	560.82	4.61	564.47	FULL 564.61	0.0000	1.06	1.17	0.02	.01	.01	Low	4.0	0.17	2.4	0.41	1.44	6.46
C1020	A1022	120'	12"	563.26	562.36	0.9	560.82	560.82	4.54	560.91	FULL 560.36	0.0000	0.45	2.85	0.17	.15	.09	Low	4.0	0.49	2.4	1.18	2.62	7.97
A1022	C1021	60'	12"	562.86	562.36	0.5	560.82	560.82	4.14	560.29	FULL 560.61	0.0000	0.68	3.83	0.36	.19	.25	86	12.0	0.89	2.4	1.18	3.80	7.97
											SEE PAGE		COLLECTIVE CONTINUATION											

Computed By: Tom Gillette Date: 8-7-68 Checked By: _____ Date: _____

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