
 NORTHWEST VILLAGE SEWAGE PLANT
 HYDROLOGY AND HYDRAULICS 9-10-80
 PROJECT NO. 30-79478 KJH
 REVISED

***** HYDRAULICS *****

POINT	HYD-SLOPE (FT/FT)	FRICTION (FT)	SB13 (FT)	TRANSITION (FT)	MANHOLE (FT)	INFLECTION (FT)	JUNCTION (FT)	TOTAL (FT)	HYD-GL ELEVATION	DESIRED ELEVATION	DIFF.
920	.00408	1.1425	0.	0.	0.	0.	0.	1.1425	1353.83	1353.80	-.23
910	.00279	.5014	0.	.0101	0.	.1194	.0484	.6793	1352.69	1352.50	-.19
900	.00395	.2370	0.	0.	0.	0.	0.	.2370	1352.25	1351.80	-.45
800	.00215	.5110	0.	.0010	0.	.0822	.1450	.743	1352.01	1351.80	-.21
700	.00344	.2066	0.	.0139	0.	.0814	.2920	.5439	1351.23	1350.70	-.53
600	.00185	.2401	0.	.0236	0.	.0500	.0039	.3176	1350.69	1350.70	.01
500	.00185	.4617	0.	0.	.0128	.1277	.0093	.6114	1350.37	1350.88	.51
450	.00185	.5356	0.	0.	.0128	.1277	.0093	.6853	1349.76	1350.40	.64
400	.00163	.5390	0.	.0022	0.	0.	.2160	.7573	1349.08	1349.81	.73
350	.00145	.5378	0.	.0018	0.	0.	.1951	.7347	1348.32	1349.20	.88
300	.00285	.1712	0.	.0284	0.	0.	.5801	.7790	1347.58	1348.56	.98
250	.00285	.6850	0.	0.	.0290	.1280	.0143	.8543	1346.80	1348.41	1.61
200	0.	0.	0.	0.	0.	0.	0.	0.	1345.95	1345.95	0.

NORTHWEST VILLAGE DRAINAGE PLAN
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HYDROLOGY

POINT TO POINT	TRIBUTARY AREA				HYDROLOGY SUMMATION				CONDUIT DATA				
	C	AREA	SLOPE	LEN	TC	I	SUM Q	SUM H	SIZE	VELOCITY	LENGTH	TT	TT + TC
	(AC)	(%)	(FT)	(KQ)	(MIN)	(IN/HR)	(CFS)	(MC)	(IN)	(FT/SEC)	(FT)	(MIN)	(MIN)
920 910	.50	7.60	.54	630	33.3	2.66	10.1	7.6	21"	4.21	280	1.1	34.4
910 800	.50	1.40	.70	530	28.0	3.04	2.1	9.0	24"	3.80	180	.8	35.2
900 800	.50	3.40	.55	850	38.4	2.39	4.1	3.4	15"	3.31	60	.3	39.7
800 700	.50	2.70	.69	535	28.2	3.02	4.1	15.1	30"	3.89	250	1.1	36.3
700 600	.50	7.00	.47	1280	49.7	1.96	6.8	22.1	30"	4.90	60	.2	36.5
600 500	.50	3.70	.49	700	35.4	2.49	4.6	25.9	36"	4.06	130	.5	37.0
500 450	0.	0.	0.	0	0.	0.	0.	25.8	36"	4.06	250	1.0	38.0
450 400	0.	0.	0.	0	0.	0.	0.	25.8	36"	4.06	290	1.2	39.2
400 350	.70	7.30	.28	750	30.1	2.88	14.7	33.1	42"	4.23	330	1.3	40.5
350 300	.70	8.60	.37	780	29.0	3.05	18.8	41.9	48"	4.36	370	1.4	41.9
300 250	.80	9.60	.85	750	15.9	3.97	39.1	51.5	48"	6.11	60	.2	42.1
250 200	0.	0.	0.	0	0.	0.	0.	51.5	48"	6.11	240	.7	42.8

REVISIONS

NORTHWEST VILLAGE TRAILHOE PLAN
 HYDROLOGY AND HYDRAULICS 8-18-80
 PROJECT NO. 30-79478 KJH

H Y D R O L O G Y

TRI BUTRY AREA
 HYDROLOGY SUMMARY
 CONDUIT DATA

POINT TO POINT	C	AREA	SLOPE	LB1	TC(0)	TC(0)	TC(0)	TC	I	SUM 0	SUM 1	SIZE	VELOCITY	LENGTH	TT	TT + TC
	(AC)	(%)	(FT)	(MIN)	(IN/HR)	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(IN)	(FT/SEC)	(FT)	(MIN)	(MIN)
900	800	.50	3.40	.66	850	36.2	2.50	4.2	36.2	2.50	4.2	18"	2.40	60	.4	36.6
800	700	.50	3.60	.54	535	30.6	2.84	5.1	36.6	2.40	4.5	24"	2.77	250	1.5	38.1
700	600	.50	5.50	.46	1340	51.1	1.91	5.3	39.1	2.40	3.9	24"	4.02	60	.2	38.4
600	500	.50	3.40	.54	630	33.3	2.66	4.5	39.4	2.39	4.1	30"	3.40	130	.6	39.0
500	450	0.	0.	0.	0.	0.	0.	0.	39.0	2.36	0.	30"	3.40	250	1.2	40.2
450	400	0.	0.	0.	0.	0.	0.	0.	40.2	2.30	0.	30"	3.40	290	1.4	41.6
400	350	.70	7.30	.25	750	31.2	2.80	14.3	41.6	2.24	11.5	36"	3.98	330	1.4	43.0
350	300	.70	6.80	.27	780	31.1	2.80	17.3	43.0	2.19	13.5	42"	4.33	370	1.4	44.4
300	250	.80	9.60	.67	750	15.9	3.97	39.1	44.4	2.13	21.0	48"	4.98	60	.2	44.6
250	200	0.	0.	0.	0.	0.	0.	0.	44.6	2.12	0.	48"	4.98	240	.8	45.4

TOTAL LENGTH OF CONDUIT = 1300 FT
 TOTAL TIME TO TRAVEL = 1.4 MIN

