Appendix B
Model Data & Results

GRANTS PASS
WHERE THE ROGUE RIVER RUNS
OREGON

KELLER associates

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Allen-Fruitdale hydraulic nodes					
A-N124	1042.053	1047.953	-1.17	91	12884
A-N122	1036.899	1040.499	-0.7	101	6037
A-N120	1036.47	1042.188	4.21	0	0
A-N126	1048.869	1054.669	5.8	0	0
A-N456	1064.811	1070.611	4.98	0	0
A-N454	1060.236	1066.736	5.76	0	0
A-N452	1018.818	1024.418	1.11	0	0
A-N450	1014.593	1020.554	1.32	0	0
A-N084	993.619	1004.019	8.31	0	0
A-N082	992.132	1000.432	5.51	0	0
A-N078	992.564	995.564	2.67	0	0
A-N076	968.44	992.85	19.57	0	0
A-N096	999.941	1002.941	3	0	0
A-N092	997.495	1001.995	4.42	0	0
A-N090	996.266	1000.266	2.69	0	0
A-N088	983.877	997.039	8.57	0	0
A-N446	1054.71	1067.68	12.37	0	0
A-N444	1022.73	1030	6.95	0	0
A-N442	1019	1022	0.74	0	0
A-N440	1016	1020.8	1.13	0	0
A-N066	973.548	975.048	0.1	0	0
A-N064	953.893	970.693	9.51	0	0
A-N054	956.24	965.44	-0.56	39	4164
A-N052	951.699	956.75	-2.13	102	42794
A-N056	953.57	959.32	0.23	0	0
A-N058	962.78	968.58	5.45	0	0
A-N050	941.906	956.606	9.42	0	0
Node37	1006.742	1009.742	3	0	0
A-N042	981.591	988.891	7.3	0	0
A-N040	975.276	982.426	6.36	0	0
A-N038	972.551	982.651	6.54	0	0
A-N036	970.866	979.066	7.27	0	0
A-N032	962.279	968.729	4.42	0	0
A-N028	962.279	968.817	5.06	0	0
A-N026	934.628	950.27	10.12	0	0
A-N030	962.716	969.266	5.49	0	0
A-N034	963.421	969.221	3.79	0	0
A-N012	937.302	940.702	2.9	0	0
A-N010	925.275	940.675	14.7	0	0
A-N008	914.309	943	25.69	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Allen-Fruitdale hydraulic nodes					
A-N308	953.73	957.23	1.57	0	0
A-N314	960.32	967.62	0.96	0	0
A-N312	954.018	960.42	3.54	0	0
A-N310	943.87	949.774	-0.88	280	26370
Node40	943.85	951.61	6.51	0	0
A-N338	971.324	975.224	-0.16	27	972
A-N434	985.6	989.4	-1.73	180	27310
A-N334	963.52	968.87	0.27	0	0
A-N332	957.376	961.126	2.73	0	0
A-N324	952.695	958.45	4.16	0	0
A-N323	949.426	958.009	6.41	0	0
A-N322	948.559	957.84	6.38	0	0
A-N320	947.32	951.65	0.65	0	0
Node673	968.304	971.304	3	0	0
A-N342	952.229	956.529	3.79	0	0
A-N340	947.66	951.836	0.83	0	0
A-N326	958.4	963.56	-1.02	281	10408
A-N328	962.258	967.458	-0.73	148	6298
A-N408	978.539	984.44	-0.05	6	298
A-N410	981.379	992.279	4.48	0	0
A-N414	983.171	989.546	1.29	0	0
A-N416	1014.675	1023.225	8.11	0	0
A-N402	973.654	976.654	-1.68	318	25181
A-N400	973	976.016	-0.83	280	7633
A-N404	1001.242	1007.692	-0.92	84	8656
A-N418	995.114	998.014	2.56	0	0
A-N206	939.83	942.83	3	0	0
A-N210	938.111	941.111	3	0	0
A-N212	937.193	940.993	3.8	0	0
A-N208	933.213	936.213	3	0	0
A-N204	926.945	929.945	1.58	0	0
A-N216	895.011	902.361	-3.82	1752	259982
A-N218	904.398	913.898	7.32	0	0
A-N219	919.436	925.036	4.9	0	0
A-N228	911.848	919.098	-0.03	6	121
A-N226	909.414	915.364	4.31	0	0
A-N224	907.27	914.67	5.98	0	0
A-N222	903.09	911.65	7.45	0	0
A-N230	909.305	916.055	5.73	0	0
A-N234	929.844	936.644	6.18	0	0
A-N232	913.773	916.773	3	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Allen-Fruitdale hydraulic nodes					
A-N244	935.881	941.281	4.97	0	0
A-N242	910.479	915.879	5.1	0	0
A-N240	894	910	15.12	0	0
A-N252	907.658	914.679	6.63	0	0
A-N250	894	910	15	0	0
A-N254	917.221	921.321	3.39	0	0
A-N256	929.122	932.122	2.39	0	0
A-N260	894	910	14.38	0	0
A-N262	904.27	919.87	12.86	0	0
A-N264	919.92	924.02	-0.77	58	6614
A-N266	908.04	916.9	-0.47	25	3453
A-N268	909.043	925.368	6.13	0	0
A-N274	926.716	930.307	-1.42	122	18386
A-N270	922.662	936.807	-1.49	137	20303
A-N280	909.538	927.583	8.34	0	0
A-N276	912.379	922.73	1.44	0	0
A-N278	914.973	924.373	3.09	0	0
A-N282	913.69	926.04	-0.22	14	1416
A-N284	913.663	920.363	-1.41	142	18001
A-N286	915.886	926.536	0.23	0	0
A-N292	917.864	926.771	0.85	0	0
A-N296	918.204	925.88	-0.03	10	170
A-N298	919.383	924.383	-0.77	94	6612
A-N288	920.014	928.414	-1.02	85	10279
A-N290	935.741	938.741	-0.52	55	3928
A-N294	919.298	923.378	-1.04	165	10272
F-N102	902.039	909	6.06	0	0
F-N104	915.907	924	5.51	0	0
F-N106	916.4	930	10.92	0	0
F-N108	919.187	925.987	0.02	0	0
F-N110	920.089	926.889	-1.26	80	14673
F-N112	921.238	929.838	-0.2	39	1309
F-N114	923.55	929.9	-0.83	56	7290
F-N116	924.45	933.9	2.6	0	0
F-N120	929.55	934.17	2.85	0	0
F-N124	946.4	952.46	5.77	0	0
F-N130	925.32	935.02	3.16	0	0
F-N132	936.43	938.53	1.22	0	0
F-N136	940.486	943.49	1.8	0	0
F-N030	941.351	946.651	1.49	0	0
F-N028	940.577	946.18	4.55	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Allen-Fruitdale hydraulic nodes					
F-N026	936.827	944.08	6.31	0	0
F-N024	928.955	945.768	11.79	0	0
F-N008	915.729	932.829	10.9	0	0
F-N010	931.198	935.348	2.61	0	0
F-N012	932.591	939.291	5.59	0	0
F-N016	937.249	940.249	2.79	0	0
F-N014	933.714	939.014	2.3	0	0
F-N018	937.185	940.185	2.13	0	0
F-N210	926.1	929.2	0.44	0	0
F-N212	927.228	930.228	1.24	0	0
F-N208	925.25	930.48	2.4	0	0
F-N204	917.4	925.34	6.19	0	0
F-N202	915.32	919.162	3	0	0
F-N206	925	929.5	2.43	0	0
Node41	949.43	956.43	7	0	0
F-N804	972.86	977.51	4.11	0	0
F-N036	943.41	946.41	1.61	0	0
F-N034	938.718	948.82	4.11	0	0
F-N712	985.201	987.301	0.94	0	0
F-N710	976.684	978.684	0.22	0	0
F-N708	972.266	974.066	-0.07	9	706
F-N706	955.778	961.478	3.49	0	0
F-N704	954.364	959.664	3.19	0	0
F-N606	968.276	974.476	-0.13	13	716
F-N604	962.541	966.791	-2.08	143	40615
F-N602	950.54	957.14	2.58	0	0
F-N506	959.4	964.4	5	0	0
F-N502	949.72	953.93	-0.39	59	4069
F-N404	956.069	958.269	-0.43	32	3079
F-N402	949.24	953.866	-0.01	7	263
A-N300	943.84	951.54	2.85	0	0
A-N302	947.495	952.445	0	0	0
A-N304	952.354	958.604	-0.97	127	9479
A-N432	978.93	989.451	5.86	0	0
A-N430	980.305	990.155	6.56	0	0
F-N812	1025.96	1032.262	3.84	0	0
F-N814	1033.855	1042.31	1.81	0	0
F-N818	1060.04	1065.34	4.69	0	0
F-N824	1104.04	1108.54	4.24	0	0
F-N822	1028.061	1031.861	3	0	0
A-N464	1082.414	1086.414	4	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Allen-Fruitdale hydraulic nodes					
A-N462	1065.192	1070.592	5.4	0	0
A-N460	1041.995	1045.595	1.83	0	0
F-N134	937.83	940.83	2.15	0	0
F-N504	951.48	956.6	2.28	0	0
F-N118	925.65	934.03	2.7	0	0
A-N412	1004.723	1007.723	2.67	0	0
A-N336	966.984	969.984	-0.02	10	32
A-N330	954.521	959.174	3.7	0	0
A-N272	936.686	939.686	2.54	0	0
F-N816	1045.858	1048.858	1.35	0	0
A-N406	975.845	978.845	0.51	0	0
A-N080	987.265	997.465	3.05	0	0
A-N094	1001.268	1004.268	3	0	0
F-N056	1023	1045.53	18.76	0	0
F-N054	1003.28	1029.84	22.86	0	0
F-N052	994.27	1029.52	31.74	0	0
F-N050	983.328	1018.54	32.48	0	0
F-N048	971.211	1013.233	36.9	0	0
F-N046	965.729	1007.74	37.15	0	0
F-N044	963.3	998.78	30	0	0
F-N006	902.895	932.401	21.68	0	0
F-N004	898.842	933.65	27.57	0	0
F-N002	895.429	933.75	34.79	0	0
F-N022	922.063	943.5	15.04	0	0
F-N020	918.563	939.97	17.01	0	0
F-N032	938.085	948.19	4.33	0	0
F-N042	963.017	980.32	14.39	0	0
F-N040	951.897	995.9	39.42	0	0
F-N038-1	948.03	992.03	39.93	0	0
F-N068	1061.009	1072.62	9.23	0	0
F-N066	1045.937	1057.55	8.52	0	0
F-N064	1041.219	1062.13	16.98	0	0
F-N062	1031.956	1055.239	20.07	0	0
F-N060	1027.121	1050.33	19.58	0	0
F-N058.1	1025.22	1044.48	16.1	0	0
F-N070	1061.098	1071.098	7.18	0	0
F-N072	1067.99	1078.265	6.87	0	0
F-N082	1083.49	1099.927	12.44	0	0
F-N080	1079.928	1096.34	12.19	0	0
F-N078	1071.868	1086.987	10.27	0	0
F-N076	1068.832	1083.94	10.59	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Allen-Fruitdale hydraulic nodes					
F-N074	1068.265	1082.78	10.84	0	0
A-N004	885.455	933.823	43.09	0	0
A-N006	891.205	938.11	39.48	0	0
A-N014	916.782	943.59	21.08	0	0
A-N016	919.799	946.613	20.92	0	0
A-N018	926.724	943.375	12.35	0	0
A-N020	931.205	947.856	11.46	0	0
Node39	933.343	950	12.77	0	0
A-N024-1	934.15	946.55	8.09	0	0
A-N046	938.525	950.125	6.22	0	0
A-N048	941.778	953.614	6.67	0	0
A-N060	947.524	962.227	9.72	0	0
A-N062	951.761	968.57	12.36	0	0
A-N068	959.353	979.26	15.66	0	0
A-N070	960.182	980.082	12.54	0	0
A-N074	965.433	986.04	14.22	0	0
A-N086	972.602	999.712	21.24	0	0
A-N098	984.039	999.5	10.86	0	0
A-N100	988.359	1004.27	10.49	0	0
A-N102	988.651	1004.76	8.1	0	0
A-N104	992.898	1013.41	15.55	0	0
A-N108-1	997.304	1017.01	14.8	0	0
A-N110	1004.323	1021.63	13.43	0	0
A-N112	1007.499	1033.51	19.52	0	0
A-N114	1008.263	1034.305	18.35	0	0
A-N116	1020.166	1037.926	15.07	0	0
A-N128	1033.35	1047.36	11.43	0	0
A-N130	1048.296	1057.2	7.04	0	0
A-N132	1054.274	1063.25	5.19	0	0
R-N112	878.203	912.91	30.55	0	0
R-N110	877.042	906.15	24.16	0	0
R-N108	875.963	938.483	56.67	0	0
R-N106	875.765	938.27	56.62	0	0
R-N104	875.401	932.241	50.73	0	0
R-N102	875.184	931.39	50.06	0	0
R-N100	875.367	929.67	48.51	0	0
R-N130	886.359	923.26	33.23	0	0
R-N128	886.231	922.44	32.91	0	0
R-N126	885.776	924.12	35.42	0	0
R-N124	884.955	923.26	35.46	0	0
R-N122	882.351	919.286	32.64	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Allen-Fruitdale hydraulic nodes					
R-N120	882.013	918.92	32.63	0	0
R-N118	882.081	913.19	28	0	0
R-N116	879.76	910.47	26.07	0	0
R-N114	877.989	912.709	29.54	0	0
R-N148	892.716	931.847	35.68	0	0
R-N146	892.27	931.58	36.89	0	0
R-N144	888.909	928.21	34.33	0	0
R-N142	888.098	927.149	34.47	0	0
R-N140	887.801	927.433	35.12	0	0
R-N138	886.832	925.64	34.14	0	0
R-N136	886.876	927.185	36.14	0	0
R-N134	886.069	926.37	35.59	0	0
R-N132	886.47	926.58	36.09	0	0
R-N162	895.675	935.746	35.59	0	0
R-N160	895.593	935.6	35.71	0	0
R-N158	895.429	933.15	33.77	0	0
R-N156	894.695	931.93	33.55	0	0
R-N154	894.436	932.04	34.37	0	0
R-N152	893.701	931.31	34.27	0	0
A-N118	1024.764	1042.498	14.38	0	0
A-N106	992.632	1013.14	12.94	0	0
A-N072	966.56	986.139	16.54	0	0
A-N044	1008.27	1013.41	3.41	0	0
A-N912	1012.58	1016.08	2.61	0	0
A-N914	1013.48	1018.85	2.72	0	0
F-N918	1020.64	1024.9	0.59	0	0
F-N920	1033.99	1037.59	-0.62	57	9840
A-N924	942.94	951.54	6.28	0	0
A-N926	946.46	952.16	1.15	0	0
A-N928	948.21	952.93	0.13	0	0
F-N932	949.24	958.55	5.07	0	0
A-N936	943.9	947.4	-0.05	5	3116
A-N938	942.5	946.5	-0.99	194	1589424
A-N915	1013.91	1019.91	2.37	0	0
A-N436	972.602	983	4.12	0	0
A-N438	972.2	978.5	3.16	0	0
A-N458	1035.025	1036.525	0.13	0	0
F-N920.1	1033.41	1036.39	-1.18	88	19207
F-N920.2	1033.7	1037.3	-0.47	56	9570
F-N920.1.1	1033.17	1037.39	0.13	0	0
F-N920.1.2	1033.45	1036.35	-0.9	78	12380

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Allen-Fruitdale hydraulic nodes					
F-N920.1.3	1033.46	1036.7	-0.84	76	11421
Node298	1032.76	1036.36	-0.89	78	10684
Node299	1032.77	1038.77	1.61	0	0
Node300	1032.76	1038.77	1.75	0	0
Node301	1031.79	1035.82	-1.08	87	14926
Node302	1031.27	1034.71	-0.98	94	12325
Node301.1	1031.21	1035.12	-0.67	79	20677
Node301.2	1031.78	1035.81	-1.02	85	32275
Node306	1030.57	1033.86	-1.1	103	21408
Node302.1	1031.12	1034.53	-1.05	97	20039
Node308	1030.84	1034.19	-0.55	80	6451
Node309	1030.42	1033.81	-0.73	91	9290
Node311	1029.77	1033.5	-0.63	88	7698
Node312	1029.48	1033.23	-0.48	82	4346
Node311.1	1029.57	1033.31	-0.68	92	7265
Node314	1026.9	1034.57	1.84	0	0
Node312.1	1029.53	1033.23	0.01	0	0
Node316	952.35	962.35	6.16	0	0
Node317	950.56	960.56	4.4	0	0
Node318	953.49	958.49	2.26	0	0
Node319	954.68	959.68	3.52	0	0
Node320	953.17	958.17	2.58	0	0
Node321	953.076	958.076	2.52	0	0
Node322	953.34	960.238	4.74	0	0
Node323	953.34	960.238	4.74	0	0
Node325	952.53	956.89	1.81	0	0
Node326	952.44	956.8	1.81	0	0
Node327	952.44	957.14	2.15	0	0
Node329	952.39	957.09	2.23	0	0
Node331	952.03	957.58	3.3	0	0
Node332	952.388	956.75	1.9	0	0
Node333	951.91	958.57	4.46	0	0
Node331.1	951.979	958.78	4.57	0	0
Node335	951.46	956.82	3.39	0	0
Node336	951.27	958.5	5.38	0	0
F-N038-2	950.83	960.83	7.88	0	0
Node336.2.	950.3	958.7	6.52	0	0
Node340	951.62	960.02	6.45	0	0
Node341	951.62	957.48	3.72	0	0
Node342	951.88	957.28	3.23	0	0
Node343	951.8	956.655	2.45	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Allen-Fruitdale hydraulic nodes					
Node344	951.19	959.59	6.08	0	0
Node345	950.37	959.46	6.57	0	0
Node347	951.52	956.13	1.61	0	0
Node348	951.72	957.5	2.9	0	0
F-N138	951.46	958.36	3.53	0	0
Node350	951.43	958.36	3.54	0	0
Node351	951.32	955.32	0.5	0	0
Node352	951.1	955.1	0.28	0	0
Node353	951.25	956.26	1.44	0	0
Node354	951.21	954.47	-0.35	32	2586
Node355	951.31	955.41	0.59	0	0
Node356	951.19	955.29	0.56	0	0
Node357	950.96	954.64	-0.04	13	431
Node358	950.93	954.61	-0.06	15	682
Node359	950.77	954.11	-0.51	57	6264
Node360	950.62	957.22	2.66	0	0
Node362	949.99	954.19	-0.02	10	145
Node363	949.56	952.97	-1.22	166	15654
Node364	949.78	953.44	-0.63	94	7289
Node365	949.66	952.92	-1.06	153	18396
Node366	949.68	955.38	1.44	0	0
Node367	949.49	955.49	1.59	0	0
Node368	949.19	953.21	-0.67	110	7747
Node369	949.33	953.74	-0.12	37	1364
Node370	949.2	953.51	-0.21	55	2289
Node371	949.21	954.91	1.26	0	0
Node372	949.15	954.15	0.57	0	0
Node373	948.94	952.72	-0.64	128	7188
Node374	948.8	952.5	-0.7	133	7987
Node375	948.81	952.55	-0.57	120	5625
Node376	948.39	952.47	-0.58	120	6348
Node375.1	948.648	952.59	-0.49	110	4675
Node378	948.78	952.64	-0.38	97	4001
Node379	948.4	952.14	-0.83	139	8539
Node378.1	948.5	952.77	-0.22	72	1903
Node381	948.44	951.81	-1.13	158	13796
Node382	948.29	951.89	-1.03	151	11722
Node383	948.64	952.68	-0.22	72	1553
Node384	947.46	953.16	0.86	0	0
Node385	947.14	952.84	1.11	0	0
Node384.1	947.26	952.96	1.12	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Allen-Fruitdale hydraulic nodes					
Node387	946.76	952.46	1.41	0	0
Node388	946.13	951.83	0.92	0	0
Node389	945.58	951.75	0.92	0	0
Node390	944.55	950.25	-0.5	105	4059
Node391	944.3	950	-0.53	111	4545
Node392	944.02	949.72	-0.75	131	7542
Node393	947	952.1	1.19	0	0
A-N320.1	946.88	951.98	1.06	0	0
Node395	946.5	952.14	1.23	0	0
Node396	946.1	952.46	1.34	0	0
Node397	945.2	951.15	-0.04	2	434
Node398	945.1	949.66	-1.12	285	92686
Node399	943.1	949.94	-0.83	245	37526
A-N306	943.4	950.31	-0.18	39	2098
Node401	943.2	951.38	1.19	0	0
Node402	943.2	950.53	1.14	0	0
Node403	943.2	947.7	-1.18	403	59720
Node404	946.14	950.54	1.67	0	0
Node405	945.25	949.71	0.95	0	0
Node409	945.64	950.48	1.88	0	0
Node410	944.64	949.66	1.48	0	0
Node411	944.5	948.1	0.33	0	0
Node412	944.46	948.96	1.79	0	0
Node413	944.44	948.94	1.84	0	0
Node414	944.08	947.2	0.65	0	0
Node415	944.13	947.23	0.74	0	0
Node416	943.83	946.93	0.6	0	0
Node417	944.01	947.71	1.53	0	0
Node418	943.96	947.66	1.52	0	0
Node419	944.08	947.18	2.41	0	0
Node418.1	938.08	947.21	7.14	0	0
Node418.2	944.06	947.26	1.73	0	0
A-N024-2	943.74	949.74	4.38	0	0
Node423	943.32	949.32	4.03	0	0
A-N022	942.85	949.15	3.86	0	0
Node425	943.13	947.96	2.73	0	0
Node426	943.43	948.23	3.2	0	0
Node427	942.93	946.1	1.98	0	0
Node428	942.65	948.09	4.27	0	0
Node429	1028.16	1038.66	5.95	0	0
Node430	1028.98	1047.58	14.97	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Allen-Fruitdale hydraulic nodes					
F-N058.2	1028.39	1034.78	2.18	0	0
Node434	1028.87	1047.17	14.56	0	0
Node435	1031.02	1047.52	14.91	0	0
Node440	1028.23	1032.5	2.66	0	0
Node441	1028.67	1032.5	2.92	0	0
Node442	1027.37	1031.17	2.11	0	0
Node441.1	1027.55	1031.35	2.26	0	0
Node441.2	1027.9	1030.9	1.79	0	0
Node441.3	1028.42	1032.22	3.03	0	0
Node448	1027.2	1030.4	2.52	0	0
Node449	1027.2	1030.4	1.95	0	0
Node450	1026.99	1030.19	1.74	0	0
Node451	1026.85	1030.3	1.85	0	0
Node452	1026.41	1030.15	1.7	0	0
Node453	1026.42	1029.52	1.08	0	0
Node454	1026.411	1029.511	1.07	0	0
Node455	1026.26	1029.87	1.43	0	0
Node456	1025.88	1029.48	1.04	0	0
Node457	1025.999	1032	3.58	0	0
Node458	1026.035	1030	1.59	0	0
Node459	1026.053	1030.053	1.65	0	0
Node460	1025.26	1029.26	1.73	0	0
Node461	1024.78	1029.78	2.74	0	0
Node462	1024.63	1029.63	2.6	0	0
Node463	1024.43	1029.43	2.48	0	0
Node464	1024.53	1029.53	2.63	0	0
Node465	1024.09	1029.09	2.23	0	0
Node466	1023.68	1028.68	1.91	0	0
Node467	1023.68	1028.68	1.91	0	0
Node468	1023.46	1027.46	0.77	0	0
Node469	1023.05	1027.05	0.41	0	0
Node470	1023.3	1027.3	0.74	0	0
Node471	1022.8	1027.4	1.1	0	0
Node472	1022.66	1029.04	2.76	0	0
Node473	1022.62	1028.62	2.5	0	0
Node473.1	1022.24	1028.24	2.54	0	0
Node473.2	1022.71	1028.71	2.77	0	0
Node473.3	1022.29	1028.29	2.22	0	0
Node478	1022.57	1028.57	3.1	0	0
Node479	1021.87	1027.87	2.53	0	0
Node480	1021.67	1027.67	2.49	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Allen-Fruitdale hydraulic nodes					
Node481	1021.668	1027.668	2.5	0	0
Node482	1021.643	1025.143	0	6	34
Node483	1021.641	1026.541	1.4	0	0
Node484	1021.61	1026.58	1.52	0	0
Node485	1021.57	1026.57	1.59	0	0
Node486	1021.63	1027.1	2.14	0	0
Node487	1020.2	1025.1	0.39	0	0
Node488	1020.65	1025.55	0.85	0	0
Node489	1020.54	1024.94	0.36	0	0
Node490	1020.87	1025.14	0.79	0	0
Node488.1	1020.44	1024.91	0.26	0	0
Node493	1019.81	1023.98	-0.1	47	942
F-N918.1	1020.2	1024.41	0.3	0	0
F-N918.2	1020.28	1024.49	0.38	0	0
Node496	1019.86	1023.43	-0.49	102	4403
Node493.1	1019.67	1023.17	-0.77	128	9708
Node493.2	1019.82	1023.48	-0.55	108	7127
Node499	1020.01	1023.72	-0.16	60	1593
Node500	1019.76	1023.45	-0.32	84	3991
Node501	1019.28	1023.25	-0.44	97	5305
Node502	1019.96	1023.46	-0.17	65	1452
Node503	1020.01	1023.61	0.05	0	0
Node504	1019.16	1023.16	-0.21	76	1863
Node505	1019.2	1023.2	-0.13	64	1594
A-N308.1	945.02	952.2	0.8	0	0
A-N308.2	947.9	953.43	-1.06	197	11170
A-N308.3	948.65	953.86	-1.55	203	27487
A-N326.1	955.47	960.94	-0.54	320	4179
F-N818.1	1044.14	1051.35	6.74	0	0
F-N028.1	938.69	945.12	5.5	0	0
F-N136.1	938.45	941.45	2.27	0	0
F-N134.1	937.37	940.07	1.53	0	0
Node514	1018.64	1022.66	0.1	0	0
Node515	1018.609	1022.609	0.1	0	0
Node516	1018.9	1021.9	-0.6	125	4978
Node517	1018.89	1021.89	-0.6	125	5043
Node518	1018.87	1022.87	0.39	0	0
Node519	1018.797	1022.8	0.49	0	0
Node520	1018.47	1023.47	1.24	0	0
Node519.1	1018.55	1023.3	1	0	0
A-N916	1018.69	1022.69	0.96	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Allen-Fruitdale hydraulic nodes					
Node524	1018.33	1021.2	-0.29	94	2781
Node525	1017.77	1021.25	-0.25	89	2147
Node526	1018.23	1021.03	-0.37	103	3531
Node527	1018.23	1021.03	-0.23	81	2082
Node528	1018.17	1021.97	0.91	0	0
Node529	1017.85	1020.65	0.09	0	0
Node530	1016.98	1019.78	-0.8	184	8016
Node531	1016.97	1019.77	-0.79	184	8173
Node532	1016.8	1019.99	-0.24	109	2281
Node531.1	1016.87	1019.9	-0.57	152	5840
Node534	1016.69	1019.77	-0.29	124	2650
Node535	1016.97	1019.77	-0.28	121	2316
Node536	1016.78	1019.65	-0.25	119	2183
Node537	1016.1	1019.06	-0.8	205	10338
Node536.1	1016.48	1019.39	-0.49	161	4360
Node539	1015.75	1019.21	-0.37	155	4962
Node540	1014.6	1018.44	-0.98	239	15584
Node541	1015.042	1018.542	-0.82	227	8985
Node540.1	1014.986	1018.49	-0.89	231	10945
Node543	1015.08	1018.13	-1.23	264	17997
Node544	1014.56	1017.88	-1.44	287	23626
Node545	1014.9	1018.37	-0.91	235	11505
Node546	1014.46	1019.46	0.26	0	0
Node547	1014.45	1017.98	-1.22	264	14936
Node548	1014.67	1018.07	-1.1	252	13708
Node549	1013.96	1017.29	-1.85	346	33033
Node550	1013.84	1017.29	-1.14	308	14509
Node551	1013.8	1015.3	-2.84	1408	102844
Node552	1013.99	1019.99	2.36	0	0
Node555	1013.54	1017.23	0.26	0	0
Node556	1013.58	1016.57	0.04	0	0
Node557	1013.71	1016.79	0.38	0	0
A-N108-2	1013.28	1016.24	0.37	0	0
Node559	1012.63	1016.01	2.08	0	0
Node560	1012.14	1016.14	2.36	0	0
Node561	1012.38	1015.55	1.77	0	0
Node562	1012.52	1015.42	1.99	0	0
Node563	1012.775	1015.68	2.25	0	0
Node564	1012.65	1015.55	2.12	0	0
Node565	1013.04	1015.91	2.48	0	0
Node566	1012.91	1016.89	3.47	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Allen-Fruitdale hydraulic nodes					
Node567	1012.07	1015.91	2.49	0	0
Node568	1012.45	1016.25	2.84	0	0
Node569	1012.85	1015.98	2.57	0	0
Node570	1012.54	1015.81	2.41	0	0
Node571	1012.66	1015.62	2.22	0	0
Node572	1012.67	1015.57	2.14	0	0
Node573	1012.34	1015.84	2.37	0	0
Node574	1011.93	1015.06	2.15	0	0
Node575	1011.91	1014.7	1.96	0	0
Node576	1011.12	1015.95	3.3	0	0
Node577	1011.2	1016.03	3.41	0	0
Node578	1011.64	1014.44	1.85	0	0
Node579	1011.54	1014.94	2.4	0	0
Node580	1010.99	1015.99	4.06	0	0
Node581	1010.925	1015.925	4	0	0
Node582	1010.113	1015.113	3.8	0	0
Node583	1010.041	1015.041	3.75	0	0
Node584	1009.36	1014.86	3.63	0	0
Node585	1009.37	1013.28	2.23	0	0
Node586	1008.986	1012.89	1.89	0	0
Node587	1008.77	1013.42	2.52	0	0
Node588	1008.84	1012.79	1.81	0	0
Node588.1	1008.79	1013.79	2.87	0	0
Node588.2	1008.8	1013.8	2.87	0	0
Node591	1009	1013.26	2.48	0	0
Node587.1	1008.94	1013.3	2.48	0	0
Node587.2	1008.93	1013.3	2.48	0	0
Node594	1009.05	1014.05	3.48	0	0
Node595	1008.82	1013.63	3.26	0	0
Node594.1	1009.04	1014.03	3.47	0	0
Node594.2	1008.89	1013.76	3.38	0	0
A-N910	1008.24	1012.86	2.51	0	0
Node595.1	1008.3	1014.3	3.95	0	0
Node595.2	1008.32	1014.32	3.97	0	0
Node595.3	1008.64	1014.64	4.28	0	0
Node595.4	1008.66	1014.66	4.3	0	0
Node603	1008.22	1012.53	3.86	0	0
Node769	1008.61	1013.41	3.9	0	0
A-N306.1	932.61	948.02	13.61	0	0
A-N224.1	905.81	913.62	5.68	0	0
Node607	922.66	936.81	13.01	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Allen-Fruitdale hydraulic nodes					
A-N276.1	909.538	927.58	6.29	0	0
A-N282.1	913.46	926.13	3.33	0	0
Node610	950.37	956.15	3.3	0	0
F-N132.1	932.93	937.42	3.33	0	0
A-N026.1	934.29	947.66	8.34	0	0
Node615	1028.67	1032.47	2.66	0	0
F-N054.1	998.47	1029.67	27.12	0	0
A-N266.1	906.38	918.21	9.57	0	0
Node607.1	914.79	927.82	12.16	0	0
Node621	1051.7	1057.78	5.63	0	0
Node622	1043.13	1049.64	6.22	0	0
Node623	1017.5	1021	1.32	0	0
Node392.1	943.91	947.57	0	0	0
Node625	941.6	946.77	-0.94	332	2382345
Node626	935.6	946.77	-0.47	276	1136533
Node627	935.599	946.77	-0.52	307	904849
Node628	935.6	945.5	-0.38	19	9796
Node629	941.2	945.5	-0.43	17	17099
Node630	941.1	945.5	2.16	0	0
A-N344	968.3	971.3	1.53	0	0
Node631.1	954.77	956.77	0.66	0	0
Node633	947.32	951.65	-0.89	123	8278
Node633.1	938.68	949.52	9.5	0	0
A-N306.1.1	919.57	944.44	23.08	0	0
A-N054.1	952.64	958.56	-0.63	78	5290
A-N058.1	955.72	961.48	2.38	0	0
Node640	966.25	972	4.26	0	0
Node633.3	935.29	948.68	12.42	0	0
Node633.2	943.76	950.77	6.24	0	0
Node505.1	1018.81	1022.82	-0.18	72	2764
F-N206.1	921.8	925	2.61	0	0
F-N210.1	925.5	931	2.64	0	0
Node647	911.8	920.8	8.63	0	0
Node649	1037	1042	2.51	0	0
Node650	1036.5	1042	3.14	0	0
Node651	912.595	922.4	9.8	0	0
A-N438.1	967.2	974.1	2.36	0	0
A-N438.2	969.5	977.3	3.5	0	0
A-N408.1	972.78	980.88	1.23	0	0
A-N408.2	973.55	982.3	-0.16	10	954
A-N408.3	974.75	985	1.05	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Allen-Fruitdale hydraulic nodes					
A-N314.1	956.6	964.4	1.03	0	0
A-N108-2.1	1013.01	1016.15	0.41	0	0
F-N120.1	928	932.83	1.5	0	0
F-N120.2	928.75	933.26	1.93	0	0
Node661	941.9	948.1	5.92	0	0
Node662	940.62	947.09	6.18	0	0
Node663	935.5	942.37	6.55	0	0
Node664	934.4	941.2	6.48	0	0
Node665	930.2	934.05	2.73	0	0
F-N058.2.1	1028.31	1033.64	1	0	0
Node314.1	1009.04	1020	8.93	0	0
Node314.2	1030	1034.5	2.08	0	0
Node314.3	1004.385	1015	9.47	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Gilbert hydraulic nodes					
G-N002	894.169	904.322	8.2	0	0
G-N003	894.3	904.85	8.57	0	0
G-N004	894.435	904.74	8.33	0	0
G-N005	894.678	903.839	7.16	0	0
G-N006	894.837	902.44	5.58	0	0
G-N007	895.9	901.2	3.05	0	0
G-N034	895	907.901	10.14	0	0
G-N014	896.038	901.938	1.38	0	0
G-N013	897.264	901.914	1.14	0	0
G-N012	898.45	901.654	0.83	0	0
G-N011	899.068	901.918	1.07	0	0
G-N015	896.75	904.711	3.55	0	0
G-N016	897.519	906.119	4.49	0	0
G-N032	896.512	905.362	4.45	0	0
G-N031	898.514	905.114	3.91	0	0
G-N017	898.419	904.756	2.32	0	0
G-N018	899.837	905.337	2.72	0	0
G-N030	900.322	906.872	4.95	0	0
G-N029	904.14	915.876	10.54	0	0
G-N028	905.21	913.142	6.87	0	0
G-N026	908.369	916.977	7.57	0	0
G-N020	902.488	907.588	4.52	0	0
G-N022	906.399	911.799	4.87	0	0
G-N023	906.188	912.428	5.36	0	0
G-N027	907.093	915.293	7.18	0	0
G-N038	896.803	908.953	10.25	0	0
G-N054	897.559	910.176	10.26	0	0
G-N053	899.651	907.551	5.05	0	0
G-N052	904.675	912.875	5.94	0	0
G-N051	905.65	914.862	6.7	0	0
G-N050	906.705	915.305	6.53	0	0
G-N049	909.32	917.607	6.39	0	0
G-N048	910.96	918.285	5.37	0	0
G-N047	913.059	920.337	5.06	0	0
G-N045	917.309	926.831	7.06	0	0
G-N044	918.96	929.572	8.03	0	0
G-N043	919.311	929.561	7.65	0	0
G-N042	935.85	939.05	1.86	0	0
G-N041	938.839	941.34	0.33	0	0
G-N040	961.186	964.29	2.29	0	0
G-N068	895.688	909.438	11.96	0	0
G-N067	900.651	910.157	7.82	0	0
G-N066	910.377	916.377	4.46	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Gilbert hydraulic nodes					
G-N065	913.409	918.685	3.02	0	0
G-N064	916.342	921.972	2.99	0	0
G-N063	918.529	923.529	1.94	0	0
G-N062	920	924.537	0.61	0	0
G-N061	924.95	928.6	0.3	0	0
G-N060	925.584	930.664	0.81	0	0
G-N075	915.71	924.008	2.83	0	0
G-N074	918.731	922.561	1.32	0	0
G-N073	918.798	924.378	2.99	0	0
G-N072	921.336	926.796	4.31	0	0
G-N071	923.89	929.427	4.74	0	0
G-N070	926.546	931.876	4.53	0	0
G-N091	913.617	921.867	-0.35	46.1	2173.76
G-N084	913.776	920.075	2.13	0	0
G-N083	915.564	921.914	0.32	0	0
G-N099	912.275	921.011	7.08	0	0
G-N098	914.174	921.774	5.95	0	0
G-N097	915.72	923.22	4.23	0	0
G-N090	916.906	924.56	4.29	0	0
G-N082	917.772	923.972	-1.46	164.3	19442.86
G-N081	918.859	926.507	-0.25	142.9	1645.86
G-N080	920.337	928.687	-0.54	266.9	4194.46
G-N079	923.19	932.045	-2.25	998.3	49694.78
G-N089	928.769	937.47	7.18	0	0
G-N077	927.7	936.289	-1.21	498.3	13749.3
G-N088	932.87	939.72	6.04	0	0
G-N087	939.27	946.37	6.08	0	0
G-N093	935.41	941.46	5.06	0	0
G-N094	927.828	935.93	6	0	0
G-N095	926.809	934.559	5.9	0	0
G-N096	922.398	931	5.3	0	0
G-N101	913.958	924.807	7.75	0	0
G-N102	913.283	923.246	7.26	0	0
G-N110	908	921.595	12.42	0	0
G-N109	916	924.151	7.07	0	0
G-N106	921.387	927.087	-0.03	20.2	150.97
G-N105	923.537	930.187	0.07	0	0
G-N104	924.832	930.532	-0.51	80.9	3902.54
G-N107	922.726	928.126	4.82	0	0
G-N127	948.471	950.971	2.14	0	0
G-N128	940.94	943.939	2.62	0	0
G-N129	937.89	941.39	0.68	0	0
G-N130	934.785	943.185	2.87	0	0
G-N131	933.549	943.964	5.96	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Gilbert hydraulic nodes					
G-N124	987.869	994.319	4.72	0	0
G-N138	1044.04	1051.54	5.14	0	0
G-N136	1040.5	1052.28	10.82	0	0
G-N140	1019.2	1029.57	8.54	0	0
G-N135	1055.51	1066.41	6.29	0	0
G-N144B	1073.5	1080.09	3.36	0	0
G-N148	1070.28	1076.31	1.35	0	0
G-N153	1063.83	1070.83	-1.51	51.7	20360.72
G-N154	1063	1069.66	-0.77	44.5	6805.14
G-N155	1046	1054.11	6.44	0	0
G-N145	1097.15	1102.75	4.06	0	0
G-N146	1092.86	1097.86	5	0	0
G-N147	1078	1084.14	6.14	0	0
G-N149	1123.59	1131.04	6.24	0	0
G-N150	1099	1106.53	1.36	0	0
G-N152	1091.93	1096.68	3.48	0	0
G-N158	1099.78	1109.98	7.87	0	0
G-N159	1096.23	1106.36	8.55	0	0
G-N167	1089.02	1097.57	7.06	0	0
G-N168	1077.23	1086.54	7.82	0	0
G-N166	1106.06	1113.86	7.36	0	0
G-N165	1121.64	1125.39	3.32	0	0
G-N164	1133.53	1139.63	5.7	0	0
G-N163	1144	1154.15	9.52	0	0
G-N199	1103.4	1109.4	5.38	0	0
G-N200	1095.29	1099.89	3.89	0	0
G-N181	1080.59	1090.79	5.02	0	0
G-N180	1097.72	1104.83	5.77	0	0
G-N179	1104.9	1109.8	3.65	0	0
G-N178	1110.02	1114.67	3.41	0	0
G-N195	1113.73	1118.93	4.32	0	0
G-N177	1130.23	1134.72	3.52	0	0
G-N194	1137.39	1142.96	5.05	0	0
G-N191	1138.74	1144.87	4.34	0	0
G-N176	1141.17	1149.42	7.64	0	0
G-N173	1169.01	1176.54	7.2	0	0
G-N172	1193.08	1199.88	6.48	0	0
G-N171	1246.27	1253.12	6.63	0	0
G-N170	1284.4	1291.3	6.67	0	0
G-N175	1158.84	1163.84	4.71	0	0
G-N174	1183.15	1188.18	4.75	0	0
G-N190	1168.27	1174.97	5.9	0	0
G-N254	938	953	10.68	0	0
G-N226	1072	1087	12.58	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Gilbert hydraulic nodes					
G-N230	1034	1060	22.84	0	0
G-N231	1033.5	1055	19.42	0	0
G-N001	874.87	935	54.44	0	0
G-N035	876.45	940	58.65	0	0
G-N056	878.95	945	61.39	0	0
G-N069	880.08	930	45.14	0	0
G-N057	937.886	942.286	-0.11	32.1	673.43
G-N086	882.94	930	42.91	0	0
G-N092	883.43	930	42.6	0	0
G-N100	883.92	930	42.31	0	0
G-N103	884.37	930	41.89	0	0
G-N112	884.82	930	41.45	0	0
G-N132	932	946	8.77	0	0
G-N245	949	975	19.71	0	0
G-N126	948	963	9.84	0	0
G-N234	997	1020	19.76	0	0
G-N141	1016	1040	19.41	0	0
G-N156	1022	1055	28.7	0	0
G-N169-2	1048	1071	17.06	0	0
G-N151	1098.54	1104.24	-0.03	5.8	172.08
G-N008	902.5	904.25	1.05	0	0
G-N036	905	915.068	6.76	0	0
G-N033	895.9	903.614	3.3	0	0
G-N037	900.33	908.98	3.24	0	0
G-N037B	897.786	907.086	6.24	0	0
G-N059	931.612	935.862	2.83	0	0
G-N217	1150	1165	13.41	0	0
G-N218	1147	1162	12.68	0	0
G-N219	1140	1163	20.16	0	0
G-N220	1138	1163	22.84	0	0
G-N221	1115	1130	12.33	0	0
G-N203	1108	1123	12.55	0	0
G-N223	1100	1125	21.93	0	0
G-N224	1085.9	1115	25.34	0	0
G-N225	1085.9	1110	20.99	0	0
G-N228	1057	1072	14.04	0	0
G-N229	1042.5	1065.5	18.86	0	0
G-N232	1010	1025	10.24	0	0
G-N233	1002	1017	12.58	0	0
G-N235	990	1015	20.27	0	0
G-N236	981	999	16.06	0	0
G-N237	976	1000	19.46	0	0
G-N240	967	982	12.18	0	0
G-N241	965	980	11.81	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Gilbert hydraulic nodes					
G-N242	960	975	10.16	0	0
G-N243	955	985	24.19	0	0
G-N244	952	980	24.3	0	0
G-N246	948	975	21.44	0	0
G-N247	945	960	10.57	0	0
G-N248	944.5	959.5	10.53	0	0
G-N249	943	958	10.29	0	0
G-N250	942	957	9.72	0	0
G-N251	940	955	8.5	0	0
G-N252	940	955	8.9	0	0
G-N253	938	953	8.88	0	0
G-N255	936	951	12.48	0	0
G-N256	934	949	10.68	0	0
G-N257	932	948	10.64	0	0
G-N258	932	947.5	10.42	0	0
G-N259	929	944	9.34	0	0
G-N260	928	943.5	8.95	0	0
G-N261	927	943	9.46	0	0
G-N263	925.5	941	9.79	0	0
G-N264	925.5	941	10.05	0	0
G-N265	924	939	9.7	0	0
G-N266	924	939	10.12	0	0
G-N267	921	936	8.55	0	0
G-N268	921	936	8.99	0	0
G-N269	919	934	9.74	0	0
G-N270	918	933	9.15	0	0
G-N076	914.5	929.5	8.38	0	0
G-N271	916	931	9.69	0	0
G-N272	910	927	12.52	0	0
G-N273	910	925	11.08	0	0
G-N274	904	919	12.59	0	0
G-N275	901	925	19.4	0	0
G-N276	891	920	22.61	0	0
G-N277	882.04	930	43.6	0	0
G-N125	984.3	989.3	4.12	0	0
G-N216	1167	1175.161	5.57	0	0
G-N238	975	1000	20.87	0	0
G-N239	975	990	11.07	0	0
G-N262	927	943	9.72	0	0
G-N202	1133	1148	13.83	0	0
G-N201	1142	1146	0.73	0	0
Node 42	1115.09	1119.29	4.2	0	0
Node43	1120.9	1126.25	5.11	0	0
G-N197	1168.8	1174.7	5.54	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Gilbert hydraulic nodes					
G-N185	1178.95	1186	6.72	0	0
G-N186	1164.59	1179.6	14.91	0	0
G-N187	1154	1169	14.49	0	0
G-N188	1146	1164	17.83	0	0
G-N192	1121.28	1135.48	10.99	0	0
G-N139	1022.83	1035.13	11.15	0	0
G-N019	902.266	907.166	4.35	0	0
G-N183	1059.32	1064.62	4.06	0	0
G-N025	909.977	920.327	9.3	0	0
Node44	1063	1068.5	4.51	0	0
G-N134	1060	1065.58	4.69	0	0
G-N157	1108.66	1116.51	5.82	0	0
G-N161	1154	1162	7.57	0	0
G-N162	1145	1152	6.47	0	0
G-N193	1138.14	1144.98	6.08	0	0
G-N212	1207.37	1213.67	5.78	0	0
G-N213	1191.54	1198.24	5.87	0	0
G-N210	1188	1206	14.75	0	0
G-N208	1210	1225	13.73	0	0
G-N209	1195	1210	14.01	0	0
G-N210B	1188	1204.5	14.05	0	0
G-N214	1182	1197	13.99	0	0
G-N021	904.609	908.009	3.06	0	0
G-N055	895.963	908.804	11.01	0	0
G-N046	914.009	922.159	5.93	0	0
G-N039	962.68	967.68	3.48	0	0
G-N058	933.618	937.278	3.07	0	0
G-N108	919.308	926.508	2.27	0	0
G-N085	913.269	919.569	3.36	0	0
G-N078	926.202	935.202	-0.9	579.1	8590.86
G-N123	991.107	997.357	4.84	0	0
Node42	1080.11	1089.11	7.4	0	0
G-N184	1194.1	1202.15	7.7	0	0
Node36	1158.43	1165.68	4.93	0	0
G-N207	1175.22	1180.92	-1.65	102.6	24457.77
G-N205	1196.66	1201.16	3.46	0	0
G-N206	1184.75	1189.75	3.42	0	0
G-N204	1203.55	1208.05	3.36	0	0
G-N227	1072	1095	19.96	0	0
G-N137	1064.14	1071.34	6.71	0	0
G-N211	1188	1203	13.52	0	0
N299	886	930	40.21	0	0
N300	873	930	50	0	0
G-N283	1193.43	1200.44	5.52	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Gilbert hydraulic nodes					
G-N280	1345	1350	4.55	0	0
G-N281	1062	1069	5.6	0	0
Node330	1176.42	1178.42	0.03	0	0
Node331	1176.26	1178.26	-0.1	13.1	709.95
Node332	1176.39	1178.39	0.04	0	0
G-N279-2	1174.93	1177.93	-0.42	29	2959.26
Node334	1172.81	1177.81	4.04	0	0
Node335	1175.89	1178.14	-0.09	15.1	614.89
Node336	1175.92	1178.23	0.31	0	0
Node337	1175.9	1178.2	0.3	0	0
Node336.1	1175.81	1178.11	0.21	0	0
Node336.2	1175.82	1178.12	0.2	0	0
Node340	1174.44	1178.44	1.35	0	0
Node337.1	1175.16	1182.58	4.85	0	0
Node346	1174.21	1177.21	0.18	0	0
Node347	1174.17	1176.17	0.12	0	0
Node348	1173.61	1175.61	-0.15	45.7	1050.74
Node349	1174.04	1178.24	2.74	0	0
Node350	1173.32	1176.32	1.27	0	0
Node351	1172.619	1175.619	0.93	0	0
Node349.1	1173.48	1177.96	2.82	0	0
Node354	1069.3	1071.45	1.31	0	0
Node317.1	1069.32	1072.36	2.22	0	0
Node317.2	1069.34	1073.07	2.95	0	0
Node317.3	1069.45	1075.15	4.94	0	0
Node359	1066.82	1072.12	1.98	0	0
Node360	1065.53	1070.58	0.41	0	0
Node359.1	1066.31	1071.35	1.2	0	0
Node362	1068.88	1070.58	0.41	0	0
Node363	1068.78	1071.15	0.97	0	0
Node364	1068.9	1071.15	0.97	0	0
Node365	1067.45	1070.65	0.42	0	0
Node366	1068.01	1071.76	1.5	0	0
Node367	1068.63	1071.63	1.32	0	0
G-N169-1	1067.94	1070.94	0.62	0	0
Node367.1	1068.24	1071.24	0.92	0	0
Node370	1066.72	1070.22	-0.1	25.5	605.65
Node371	1067.38	1069.38	1	0	0
Node372	1066.59	1068.59	0.69	0	0
Node370.1	1067.46	1069.58	1.13	0	0
G-N182	1067.69	1070.15	-0.18	33.2	1344.76
Node370.3	1067.3	1070.18	-0.15	31.4	1046.3
G-N226.1	1063	1078.7	12.12	0	0
Node377	1066.76	1067.95	0.09	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Gilbert hydraulic nodes					
Node378	1066.36	1068.36	0.51	0	0
Node379	1066.21	1068.21	0.37	0	0
Node380	1065.83	1067.83	-0.01	10	55.01
Node381	1065.36	1067.32	-0.51	93	4004.96
Node382	1065.66	1067.36	-0.5	90.7	4023.69
G-N133	1065.58	1068.58	0.7	0	0
Node384	1161.26	1164.66	1.98	0	0
Node384.1	1114.37	1117.77	3.07	0	0
Node388	1113.67	1117.07	3.04	0	0
Node384.2	1123.37	1126.85	2.97	0	0
Node390	1171.81	1173.81	0.13	0	0
Node391	1168	1174.36	5.81	0	0
Node392	1172.73	1174.73	0.89	0	0
Node394	1173.17	1174.48	0.08	0	0
Node395	1173.18	1174.88	0.17	0	0
Node396	1172.83	1174.83	0.04	0	0
Node397	1172.51	1174.51	-0.38	248.8	2849.11
Node398	1172.76	1174.67	-0.47	254.6	4052.61
Node399	1171.64	1174.33	-0.9	375.2	9207.37
Node400	1172.06	1174.06	-1.41	472.2	18180.96
G-N216-1	1172.46	1174.46	-1.03	350.6	11324.27
Node402	1171.85	1173.85	-1.68	553.2	26252.83
Node403	1171.93	1175.97	1.47	0	0
Node404	1171.4	1173.51	-0.96	595.4	8897.45
G-N216-2	1171.41	1173.41	-1.09	615.2	12484.82
Node406	1171.66	1173.66	-0.84	571.6	8632.72
Node407	1171.86	1173.86	-0.64	517	5485.84
Node408	1171.73	1173.73	-0.77	555.7	7050.62
Node409	1171.7	1173.7	-0.81	564.6	7602.76
Node410	1171.57	1173.57	-0.94	593.1	9440.79
Node411	1171.55	1173.55	-0.96	597.4	10826.56
Node412	1170.17	1173.17	-1.37	650.1	18042.98
Node411.1	1170.48	1172.48	-2.03	741.7	40971.86
Node415	1170.89	1173.89	-0.65	529.6	5787.14
Node416	1170.91	1173.91	-0.81	538	8216.3
Node417	1171.06	1173.96	-0.76	524.8	7602.52
Node418	1169.98	1174.98	0.3	0	0
Node419	1169.92	1171.92	1.76	0	0
Node420	1163.4	1172.41	7.25	0	0
Node421	1164	1171.498	6.32	0	0
Node422	1163.395	1165.07	-0.79	421.4	60733.6
Node423	1168.92	1172.45	2.1	0	0
Node424	1169.14	1171.64	1.45	0	0
G-N215-2	1168.96	1171.46	2.01	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Gilbert hydraulic nodes					
Node426	1168.56	1170.56	1.06	0	0
Node427	1168.36	1170.36	0.84	0	0
Node428	1167.95	1169.95	0.4	0	0
Node429	1168.08	1170.16	0.64	0	0
Node428.1	1168.06	1168.56	-0.96	1363.5	29221.56
Node431	1168.57	1170.57	1.03	0	0
G-N215-1	1168.24	1170.74	1.14	0	0
Node433	1167.45	1169.95	0.39	0	0
Node434	1165.9	1171.75	2.43	0	0
Node435	1165.88	1169.96	0.72	0	0
Node436	1165.74	1170.89	1.66	0	0
Node437	1163.85	1174.66	5.47	0	0
Node438	1163.67	1179.75	10.59	0	0
Node439	1163.21	1182.7	13.6	0	0
Node440	1163.23	1180.41	11.35	0	0
Node441	1163.14	1180.41	11.41	0	0
Node442	1162.83	1169.16	0.19	0	0
G-N198	1166.76	1169.35	0.38	0	0
Node444	1166.19	1169.11	0.15	0	0
Node445	1166.43	1170.03	1.83	0	0
Node446	1163.79	1170.03	2.42	0	0
Node447	1164.99	1169.99	2.39	0	0
Node448	1157.36	1169.99	2.4	0	0
Node449	1157.28	1169.99	2.49	0	0
Node450	1164.62	1169.99	2.5	0	0
Node451	1160.769	1167.499	0.53	0	0
Node452	1159.972	1167.99	1.32	0	0
Node453	1159.37	1169.49	3.05	0	0
Node454	1162.74	1170.44	4.06	0	0
Node455	1161.096	1167.496	0.4	0	0
Node456	1161.69	1166.9	-0.25	171.1	1893.63
Node457	1162.488	1170.44	4.15	0	0
Node458	1161.14	1168.84	2.76	0	0
Node459	1161.16	1167.36	1.31	0	0
Node460	1161.55	1165.75	-0.15	150.7	1008.92
Node461	1161.13	1165.13	-0.74	275.9	6502.56
Node462	1161.13	1169.6	3.77	0	0
Node463	1162.67	1165.97	0.14	0	0
Node464	1163.32	1167.32	2.25	0	0
Node465	1163.35	1165.44	0.38	0	0
Node466	1163.17	1164.91	-0.15	180.2	1011.18
Node467	1162.91	1164.98	0.15	0	0
Node468	1162.89	1164.61	1.15	0	0
Node469	1162.1	1163.77	0.86	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Gilbert hydraulic nodes					
Node470	1161.74	1164.53	1.92	0	0
Node471	1159.74	1164.54	1.78	0	0
Node472	1160.94	1164.44	1.7	0	0
Node473	1161.84	1163.84	1.29	0	0
Node474	1161.76	1163.92	1.38	0	0
Node475	1161.12	1162.42	0.54	0	0
Node476	1161.28	1162.65	0.87	0	0
Node477	1160.36	1162.12	0.82	0	0
Node478	1160.8	1162.1	0.89	0	0
Node479	1159.63	1160.93	0.95	0	0
Node480	1160.37	1161.67	1.3	0	0
Node481	1159.77	1161.07	1.3	0	0
Node482	1159.9	1161.2	1.3	0	0
G-N007.1	895.67	901.47	3.67	0	0
G-N007.2	895.78	901.34	3.3	0	0
G-N087.1	937.16	944.17	6.05	0	0
G-N093.1	931.72	938.77	6.14	0	0
G-N089.1	919.06	926.9	6.17	0	0
G-N096.1	919.09	927.2	6.01	0	0
Node490	915.06	924.56	2.3	0	0
G-N147.1	1074.51	1080.6	5.64	0	0
G-N154.1	1058.4	1065.45	3.83	0	0
G-N182.1	1066.09	1072.6	5.07	0	0
G-N190.1	1152.45	1158.84	5.02	0	0
Node495	1065.4	1067.1	-0.78	121	7032.42
Node496	1065.06	1066.06	0.12	0	0
Node497	1064.967	1065.967	0.16	0	0
Node498	1064.79	1066.79	1.2	0	0
Node499	1064.34	1066.34	0.82	0	0
Node500	1064.22	1066.3	1.52	0	0
Node501	1064.63	1066.3	1.46	0	0
Node503	1063.89	1065.89	1.45	0	0
Node504	1063.902	1065.902	1.47	0	0
Node505	1063.912	1065.412	1	0	0
Node506	1063.937	1065.437	1.1	0	0
Node507	1063.948	1065.948	1.62	0	0
Node508	1063.96	1065.96	1.64	0	0
Node509	1063.91	1065.41	1.12	0	0
Node510	1063.64	1065.14	1.05	0	0
Node511	1063.41	1067.41	3.33	0	0
Node512	1063.44	1065.44	1.36	0	0
Node513	1063.77	1066.77	2.77	0	0
Node514	1063.11	1065.31	2	0	0
Node515	1062.13	1065.13	2.77	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Gilbert hydraulic nodes					
Node516	1061.58	1064.58	2.47	0	0
Node517	1061.61	1063.11	1.3	0	0
Node516.1	1061.6	1063.1	1.25	0	0
Node516.2	1061.6	1064.1	2.06	0	0
Node520	1060.73	1063.73	2.13	0	0
Node517.1	1061.4	1063.4	1.67	0	0
Node522	1060.63	1063.63	2.04	0	0
Node523	1061.33	1064.33	2.76	0	0
Node524	1060.77	1063.47	2.06	0	0
Node525	1060.29	1062.49	1.08	0	0
Node524.1	1060.67	1063.63	2.22	0	0
Node527	1059.92	1062.34	0.93	0	0
Node528	1059.93	1062.88	1.47	0	0
Node527.1	1059.93	1062.61	1.2	0	0
Node527.2	1059.93	1062.56	1.15	0	0
Node531	1059.31	1062.21	0.8	0	0
Node532	1040.69	1062.68	1.27	0	0
Node533	1057.34	1060.34	-0.94	356.3	9670.2
Node531.1	1059.22	1062.12	0.71	0	0
Node535	1057.314	1060.314	-0.97	361.6	10055.54
Node536	1057.3	1060.3	-0.98	363.8	11067.61
Node537	1057.08	1060.08	-1.2	388.8	14590.39
Node536.1	1057.15	1060.15	-1.13	383.9	14004.27
Node539	1061.46	1067.46	6	0	0
G-N207.1	1163.99	1169.74	2	0	0
Node541	1059.176	1063.176	4	0	0
Node542	1054.75	1058.57	3.82	0	0
Node543	1054.18	1057.08	2.9	0	0
Node544	1053.81	1055.91	1.95	0	0
Node545	1054.02	1055.98	1.83	0	0
Node544.1	1053.94	1055.95	1.86	0	0
Node544.2	1053.93	1055.95	1.95	0	0
Node544.3	1053.89	1055.94	1.98	0	0
Node551	1052.32	1054.87	1.71	0	0
Node545.1	1052.74	1055.14	1.98	0	0
G76	1053.69	1055.76	1.59	0	0
Node545.3	1053.76	1055.8	1.66	0	0
Node555	1052.86	1054.68	1.52	0	0
Node556	1052.83	1054.63	1.48	0	0
Node551.1	1052.61	1054.51	1.35	0	0
G60	1051.38	1054.38	2.15	0	0
Node559	1051.5	1054.5	2.8	0	0
Node556.1	1051.72	1054.2	1.96	0	0
Node556.2	1052	1054.05	1.72	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Gilbert hydraulic nodes					
Node562	1050.5	1053.5	3	0	0
Node559.1	1025.93	1027.43	1.13	0	0
Node564	1030.67	1036.62	5.95	0	0
Node565	1030.67	1063.62	32.95	0	0
Node566	1004.44	1009.44	5	0	0
Node567	995.58	1000.28	4.7	0	0
Node568	989.79	994.59	4.8	0	0
Node569	986.67	992.67	6	0	0
G58 G75	949.19	951.19	1.51	0	0
Node571	946.4	948.4	0.91	0	0
Node572	945.9	948.4	1.28	0	0
Node573	945.61	947.62	0.77	0	0
node5769	944.97	947.22	0.87	0	0
G61	944.97	947.22	0.89	0	0
Node576	942.11	944.21	0.39	0	0
Node577	941.45	943.55	1.03	0	0
Node578	941.47	943.27	1.12	0	0
Node580	1112.14	1117.34	4.32	0	0
Node334.1	1130.12	1133.12	2	0	0
Node334.2	1144.29	1147.29	1.95	0	0
Node334.3	1149.82	1153.32	2.55	0	0
Node334.4	1163.44	1166.94	2.67	0	0
Node585	1165.884	1170.884	-1.35	95.8	20465.46
Node586	1171.4	1173.51	-0.94	589.3	9588.48
G-N214.1	1170.65	1182.92	5.34	0	0
Node512.1	1063.68	1066.4	2.34	0	0
G-N234.1	991.28	1015.92	20.79	0	0
G73	1024.49	1025.99	1.24	0	0
Node565.1	1007.21	1015.15	7.94	0	0
Node565.2	1019.49	1040.51	21.02	0	0
Node450.1	1163.248	1166.924	-0.25	172.3	1660.95
Node596	968.53	978.03	8.65	0	0
Node596.1	966.49	974.41	7.39	0	0
Node598	969.44	978.03	4.49	0	0
G28 G59	975.57	978.03	1.75	0	0
Node422.1	1158.28	1163.14	-2.68	950.3	132175.94
Node603	1095	1102.67	0.41	0	0
Node604	1095	1102.67	5.51	0	0
Node605	936.85	939.95	2.75	0	0
Node606	939.8	946.42	6.62	0	0
Node607	961.5	969.53	8.03	0	0
Node608	971.65	977.05	5.4	0	0
Node609	980	987.88	7.88	0	0
Node610	982	984.96	2.96	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Gilbert hydraulic nodes					
Node391.1	1153.64	1160.25	4.05	0	0
Node613	1145	1149	0	39.5	0
G-N040.1	940.19	942.72	1.42	0	0
HILLSIDE1	0	0	0	0	0
Node616	1163.395	1165.07	0	616	0
Node391..1	1132.44	1137.94	4.75	0	0
Node391.2	1167.78	1174.14	5.59	0	0
G-N168.1	1065.17	1078.77	12.12	0	0
G-N159.1	1093.5	1101.96	7.09	0	0
Node36.1	1142.67	1145.68	-0.45	25.1	3642.9
Node36.2	1149.31	1152.06	0.36	0	0
Node36.3	1149.75	1152.5	0.22	0	0
Node36.4	1150.5	1153.25	0.31	0	0
Node636	1153.516	1156.27	0.18	0	0
Node637	1153.027	1155.78	0.35	0	0
Node638	1150.889	1153.639	0.18	0	0
Node613.1	1121.08	1131	9.13	0	0
Node613.2	1121.75	1130	7.21	0	0
Node613.3	1145	1147.66	2.07	0	0
G-N207.1.1	1162.63	1168.8	2.24	0	0
Node545.2	1052.05	1054.45	2.11	0	0
Node644	1059.6	1066.4	6.8	0	0
Node532.1	1042.46	1062.43	1.02	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Sand hydraulic nodes					
SA-N009	930	938.84	2.84	0	0
SA-N066	909	933.69	23.72	0	0
SA-N070	915	918	0.58	0	0
SA-N122	908.48	921.2	-0.02	1.7	55.93
SA-N144	900.68	908.58	4.7	0	0
SA-N132	910.69	917.4	2.65	0	0
SA-N131	913.72	918.77	2.33	0	0
SA-N134	914.42	919.42	-0.9	88.8	5878.82
SA-N145	899	906	4.38	0	0
SA-N007	931	940	2.74	0	0
SA-N003	949	959.79	3.78	0	0
SA-N011	928	937	4.3	0	0
SA-N013	923	930	2.1	0	0
SA-N029	937.72	943.32	1.49	0	0
SA-N014	883	891	1.8	0	0
SA-N069	916.9	927.34	0.76	0	0
SA-N057	923.82	927	0.71	0	0
SA-N005	940	954	10.19	0	0
SA-N080	900.36	910.57	1.1	0	0
SA-N102	905.04	913	5.39	0	0
SA-N140	918.87	928.23	2.86	0	0
SA-N159	915.46	918.96	-1.04	269.6	7872.12
SA-N025	938.16	943.86	0.47	0	0
SA-N147	890	897	4.69	0	0
SA-N104	889	897	1.73	0	0
SA-N068	930.13	934.65	3.97	0	0
SA-N072	911.5	915	-1.01	229.8	7898.42
SA-N084	902.63	909.96	-0.23	9	671.01
SA-N168	905.35	911.65	5.12	0	0
SA-N169	901.25	908.55	6.36	0	0
SA-N137	926.05	931.95	0.42	0	0
SA-N136	927.5	931.7	-0.09	7	246.71
SA-N121	916.54	925.68	2.76	0	0
SA-N146	893.91	902.89	5.78	0	0
SA-N133	909.1	915.5	2.3	0	0
SA-N135	928.81	933.08	-0.01	2.8	12.47
SA-N138	922.06	926.24	0.09	0	0
SA-N113	912.58	920.22	6.08	0	0
SA-N139	921.75	927.92	1.85	0	0
SA-N160	910.64	917.56	4.75	0	0
SA-N128	918.28	924.48	3.35	0	0
SA-N129	916.05	923.05	1.86	0	0
SA-N130	918.77	921.97	-0.99	120.9	6760.49

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Sand hydraulic nodes					
SA-N124	905.67	915.5	-1.67	120.5	29530.97
SA-N123	906.93	920.44	1.1	0	0
SA-N083	906.54	912.8	-0.08	7.1	149.75
SA-N078	905.49	911.74	-0.03	3.6	49.18
SA-N079	904.87	913.06	2.53	0	0
SA-N081	899.76	910.58	1.77	0	0
SA-N115	914.19	917.64	0.21	0	0
SA-N117	910.52	915.27	-0.25	14.7	674.16
SA-N116	911.92	915.43	-0.11	10.3	259.45
SA-N118	909.57	915.35	-0.02	4.7	80.71
SA-N119	912.82	918.75	2.36	0	0
SA-N120	911.35	917.22	1.69	0	0
SA-N100	908	912.6	0.72	0	0
SA-N101	907.57	912.6	3.2	0	0
SA-N090	918.02	926.69	6.74	0	0
SA-N085	923.47	929.15	-1	88.6	7532.33
SA-N091	916.09	921.32	2.42	0	0
SA-N093	915.18	922.15	4.55	0	0
SA-N095	914.49	921	4.81	0	0
SA-N096	912.98	921	5.52	0	0
SA-N097	911.24	920	5.94	0	0
SA-N098	910.45	920	6.33	0	0
SA-N099	910.06	916	3.72	0	0
SA-N110	916.42	920.17	1.05	0	0
SA-N111	916.32	920.15	1.14	0	0
SA-N112	916.46	921.15	3.84	0	0
SA-N074	927.39	932.52	2.63	0	0
SA-N075	924.51	928.01	-0.47	46.8	1666.72
SA-N076	922.22	925.9	-1.2	91	10857.41
SA-N077	920.18	926.67	-0.31	43.6	958.06
SA-N056	926.95	928.66	0.45	0	0
SA-N058	921.12	930.52	5.71	0	0
SA-N059	920.95	930.35	6.32	0	0
SA-N060	920.7	925.4	2.18	0	0
SA-N061	920.4	925.1	1.92	0	0
SA-N062	918.02	923.57	2.54	0	0
SA-N063	917.54	923.09	2.34	0	0
SA-N064	917.44	921.44	1.23	0	0
SA-N065	916.14	926.14	8.39	0	0
SA-N050	930.26	935.47	-0.94	61.9	6543.1
SA-N051	923.57	931.53	3.19	0	0
SA-N053	923.56	926.56	2.2	0	0
SA-N052	923.56	928.1	0.06	0	0
SA-N055	927.16	933.91	5.03	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Sand hydraulic nodes					
SA-N033	936.22	940.22	-0.59	123.8	2791.87
SA-N049	936.96	941	-2.32	2568.7	120462.04
SA-N031	936.6	940.99	0.03	0	0
SA-N032	936.41	940.75	-0.14	68.2	423.57
SA-N034	933.1	939.6	-0.99	156.9	7512.97
SA-N027	936.23	944.26	2.38	0	0
SA-N022	939.4	947.13	2.39	0	0
SA-N023	938.31	944.91	0.92	0	0
SA-N038	945.53	951.23	4.89	0	0
SA-N047	950.06	953.69	2.8	0	0
SA-N048	947.89	951.83	3.58	0	0
SA-N040	968.14	974.38	5.46	0	0
SA-N042	957.9	963.9	5.52	0	0
SA-N043	953.42	959.06	2.53	0	0
SA-N041	959.81	964.79	4.4	0	0
SA-N044	951.87	955.72	2.85	0	0
SA-N045	947.76	952.51	3.94	0	0
SA-N149	924.05	926.3	-0.02	4.2	26.58
SA-N150	922.16	927	0.9	0	0
SA-N141	914.82	930	6.53	0	0
SA-N142	910.57	920.32	1.65	0	0
SA-N154	913.8	918.55	-0.23	8	717.81
SA-N125	911.1	915.2	-1.15	115.5	10056.36
SA-N126	910.16	916	-0.24	75.1	1284.47
SA-N114	911.6	917.38	1.51	0	0
SA-N018	958.38	967.57	8.1	0	0
SA-N019	952.46	961.65	2.59	0	0
SA-N020	949.05	953.05	2.75	0	0
SA-N006	938	954	10.46	0	0
SA-N153	916.28	919.38	-0.01	1	17.7
SA-N155	909.02	916.77	0.18	0	0.3
SA-N143	906.21	914.46	0.8	0	0
SA-N152	924	926.7	-0.97	406.4	14674.45
SA-N151	927.8	931.6	3.35	0	0
SA-N028	936.8	942.44	0.58	0	0
SA-N030	937.55	943.8	2.26	0	0
SA-N026	938.04	944.64	1.41	0	0
SA-N010	929	937	3.26	0	0
SA-N008	931	940	3.49	0	0
SA-N012	923	930	0.23	0	0
SA-N015	883	899	10.89	0	0
SA-N148	889.9	897.5	5.89	0	0
SA-N105	888	897	6.34	0	0
SA-N106	869.82	879.19	6.01	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Sand hydraulic nodes					
SA-N127	910.06	916	0.1	0	0
SA-N046	946	951.89	4.7	0	0
SA-N086	920.68	927.23	3.76	0	0
SA-N087	920.64	927.12	4.36	0	0
SA-N088	919.49	926.47	5.63	0	0
SA-N094	915	922.6	5.7	0	0
SA-N103	891.49	897	1.44	0	0
SA-N161	901.05	909.73	5.59	0	0
SA-N024	940.04	945.11	1.32	0	0
SA-N004	948.5	959.5	3.95	0	0
SA-N092	915.8	919.5	1.46	0	0
SA-N071	912	915	-1.96	264	60868.02
SA-N039	974.39	977.89	3.07	0	0
SA-N016	859.16	875.16	9.08	0	0
SA-N002	958.88	976.93	13.98	0	0
SA-N001	982	1000.05	13.94	0	0
SA-N017	1003.4	1005.1	0.2	0	0
SA-N021	942.4	955.14	8.25	0	0
SA-N054	890.1	893.1	2.56	0	0
SA-N067	873.73	898.42	21.04	0	0
SA-N082	893	900	6.79	0	0
SA-N073	910.18	914	3.68	0	0
SA-N167	912.96	916	2.63	0	0
SA-N107	862.13	868.13	1.11	0	0
SA-N109	921.32	926.86	1.97	0	0
SA-N108	921.75	927.1	1.14	0	0
R-N001	876.71	933.04	51.66	0	0
R-N011	859.1	885.73	20.33	0	0
R-N012	858.69	874.22	9.22	0	0
R-N002	875.37	933.95	53.97	0	0
R-N003	873.58	932.16	53.84	0	0
R-N004	873.6	923.75	46.38	0	0
R-N005	871.17	916.52	40.58	0	0
R-N006	871.19	913.94	38.73	0	0
R-N007	867.81	903.57	31.3	0	0
R-N008	865.73	901.49	31.19	0	0
R-N009	861.87	885.87	18.86	0	0
R-N010	858.89	885.52	19.5	0	0
SA-N133A	911.23	915.5	3.52	0	0
SA-N166	917	919.35	-0.91	263.1	5964.42
SA-N158	916.1	919.66	-0.55	203.7	2087.81
SA-N172	915	920	-0.22	0	0
SA-N171	915.48	922	1.44	0	0
SA-N170	917.94	924.4	3.14	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Sand hydraulic nodes					
SA-N162	919.56	922.56	2.11	0	0
SA-N157	918.48	921.71	1.28	0	0
SA-N156	919	924.78	4.24	0	0
SA-N164	917.28	921.66	0	2.7	4.64
SA-N163	919.36	922.75	-0.57	61.4	2347.44
Node193	938.7	954.93	8.09	0	0
Node194	941.8	951.81	5.04	0	0
Node195	938.4	950.73	4.05	0	0
Node196	940.5	950.78	4.14	0	0
Node197	940.4	950.67	4.1	0	0
SA999	939.8	948	1.59	0	0
Node199	940.18	944.54	0.59	0	0
SA-N023.1	939.54	944.67	0.7	0	0
Node202	939.97	944.27	0.38	0	0
Node203	939.34	942.34	-1.17	2171.4	10876.58
Node204	939.34	942.34	-1.16	2170.2	11155.38
Node205	939.33	944.1	0.39	0	0
Node206	939.62	943.08	-0.6	2144.6	5044.53
Node207	939.22	943.87	0.23	0	0
Node208	939	943.58	0.01	0	0
Node208.1	939.22	943.52	0	1989.8	0
Node212	938.89	942.65	-0.81	2135.8	6756.48
Node204.1	939.09	943.39	-0.09	2016.4	477.6
Node214	938.89	943.19	-0.25	2061.4	992.25
Node212.1	938.89	943.19	-0.26	2064.2	1376.93
Node216	938.89	943.19	-0.23	2057.8	1006.16
Node217	938.79	942.2	-1.2	2163.3	15261.54
Node218	937.81	943.51	1.66	0	0
Node219	937.62	943.32	1.48	0	0
Node220	937.72	942.32	0.49	0	0
Node221	937.84	942.44	0.61	0	0
Node222	937.44	942.84	1.33	0	0
Node223	937.13	941.63	0.13	0	0
Node224	936.64	941.62	0.12	0	0
Node225	936.76	940.85	-0.64	201.7	4509.91
Node224.1	936.68	941.37	-0.12	90.9	829.02
Node227	934.6	941.92	0.99	0	0
Node228	935.1	942.65	1.7	0	0
Node229	933.6	941.341	0.6	0	0
Node230	935.2	939.21	-1.49	223.5	20066.61
Node231	935.67	941.17	0.47	0	0
Node232	935.62	941.12	0.53	0	0
Node233	932.03	940.6	0.32	0	0
Node234	931.24	940.89	0.82	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Sand hydraulic nodes					
Node235	929.91	938	-1.71	452.4	45.95
Node236	929.29	936.31	-2.62	2267.4	102.09
Node237	928.69	937.61	-0.51	165.6	13.4
Node238	928.46	935.52	-2.33	2313.3	56.34
Node239	928.22	936.93	-0.64	332.4	14.03
Node240	927.95	937.89	0.62	0	0
Node241	933	939.62	2.83	0	0
Node242	934.41	938.41	4	0	0
Node243	934.15	938.41	4.26	0	0
Node244	934.2	939.62	2.96	0	0
Node245	934.32	938.32	1.84	0	0
SA-N050.1	925.93	932.92	3.36	0	0
SA-N050.2	929.29	934.9	1.44	0	0
SA-N053.1	905.69	908.69	2.15	0	0
SA-N058.1	921.03	930.43	6.3	0	0
SA-N068.1	921.63	929.95	2.67	0	0
SA-N068.2	924.57	931.58	3.28	0	0
SA-N084.1	901.16	910.35	0.77	0	0
SA-N080.1	900.01	910.58	1.63	0	0
SA-N115.1	912.32	915.82	0.26	0	0
SA-N085.1	923.26	928.11	3.09	0	0
SA-N085.2	923.33	928.45	2.61	0	0
SA-N090.1	917.14	923.63	4.42	0	0
SA-N130.1	914.05	921.62	-0.01	1.4	13.77
SA-N130.4	913.15	921.55	0.21	1.1	3.65
SA-N128.1	916.93	923.61	2.48	0	0
SA-N125.1	910.71	915.54	-0.7	103.5	4858.01
SA-N127.1	908.56	915.1	5.64	0	0
SA-N162.1	917.67	920.9	0.86	0	0
SA-N140.1	916.52	929.1	4.79	0	0
SA-N159.1	914.2	918.59	0.7	0	0
SA-N153.1	915.24	919.03	-0.05	3.4	57.48
SA-N168.1	902.77	909.7	6.29	0	0
SA-N168.2	903.58	910.31	5.99	0	0
Node269	934.32	938.32	2.6	0	0
Node270	934.32	938.32	4	0	0
SA-N028.1	933.5	938.56	4.81	0	0
Node273	928.4788	932.5	3.33	0	0
Node281	942.65	948.09	1.19	0	0
Node282	927.7	934.03	-2.04	2369.1	68143.45
SA-N139.1	921.49	928.2	2.68	0	0
SA-N152.1	919.8	925.65	0.06	0	0
Node273.2	927	931.6	2.94	0	0
Node292	957	961	0	1063.3	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Sand hydraulic nodes					
Node293	932.3	956.3	20.41	0	0
Node294	930.5829	937.61	5.67	0	0
Node295	939.15	951.4	7.48	0	0
Node297	937.8	940.4	2.6	0	0
Node298	937.6	941	0.04	0	0
Node299	936.7	941	0.05	0	0
Node300	936.4	941	2.95	0	0
Node301	935.6	938.6	0.6	0	0
Node302	934.8	938.6	0.61	0	0
Node303	934.3	938.77	0.78	0	0
Node304	933.7	937.3	0	17.1	0
Node305	933.7	937.3	0	17.1	0
Node306	933.17	937.3	0	17.3	0
Node307	933.17	937.86	1.36	0	0
Node309	930.6	932.27	-0.37	1597.1	1826.47
Node310	925	930.67	-1.85	2318.7	49357.72
Node311	925	929.17	-2.41	2377.1	145489.52
Node312	927.2	928.87	-2.7	2388.8	262152
Node313	927.3	928.97	-0.28	1361.6	907.65
Node314	927.7	928.7	-0.53	1915.6	2330.42
Node317	927.17	928.84	-0.41	1741.3	1525.01
Node311.1	915.44	918.5	0.41	0	0
Node311.2	918.51	921.92	-1.7	2328.3	35316.02
Node311.3	920.47	924.11	0.48	0	0
Node311.4	921.38	925.13	-1.34	2248.7	16089.75
Node311a	922.07	925.9	-3.01	2384.7	484792.42
Node323	921.2	926.27	-1.42	2380.3	19237.05
Node317.1	924.78	926.45	-1.24	2351.4	13153.37
Node317.2	926	927.67	-1.44	2370.9	20924.44
Node317.3	922.74	928.41	-0.7	2186.1	4219.35
Node317.4	922.87	928.54	-0.65	2129.3	3252.57
Node317a	927.08	928.75	-0.44	1805.5	1748.63
Node329	918	926.27	-1.41	2379.8	18462.64
Node330	918.92	926.27	-1.36	2376	16689.03
Node330.1	920.075	921.75	0.81	0	0
Node330.2	920.318	921.988	1.04	0	0
Node330.7	917.04	921.43	3.74	0	0
Node338	910.679	913.96	2.79	0	0
SA-N102.1	901.87	909.26	4.81	0	0
Node341	934.3	938.77	1.4	0	0
Node342	934.8	938.6	0.71	0	0
Node343	934.8	938.6	0.71	0	0
Node344	931.7	936.9	1.2	0	0
Node345	931.7	936.9	1.2	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Sand hydraulic nodes					
Node346	931.7	936.9	3.72	0	0
Node347	932.33	936.9	3.69	0	0
Node330.3	917.54	921.48	2.89	0	0
Node349	937.8	940.4	2.6	0	0
Node350	937.8	940.4	2.6	0	0
Node351	935.8	940.75	3.45	0	0
Node352	931.4619	936.77	3.96	0	0
SA-N152.2	918.21	928.22	2.74	0	0
Node356	921.65	927.81	1.81	0	0
Node358	933.17	937.86	0.74	0	0
Node359	933.17	937.86	0.74	0	0
Node376	939.5	943.7	0.3	0	0
SA-N140.2	915.38	930.12	6.23	0	0
Node366	921.23	928.04	2.49	0	0
Node356.2	921.53	927.42	1.56	0	0
SA-N137.1	922.21	926.08	-0.09	4.4	234.86
Node365	922.2	928.05	2.52	0	0
Node363	916.75	929.42	4.97	0	0
Node362	916.41	930.01	5.66	0	0
Node361	915.55	931.14	7.12	0	0
Node364	917.41	928.82	3.9	0	0
Node371	924.73	927.79	-1.05	61.7	7709.57
Node372	922.6	928.22	-0.01	1.9	18.42
SA-N085.5	920.74	927.67	3.97	0	0
Node387	918.9	927.84	2.31	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Skunk-Jones hydraulic nodes					
SK-N548	930.3	Allowed	3.84	0	0
SK-N547	929.599	Allowed	6.79	0	0
SK-N546	933.5	Allowed	7.15	0	0
SK-N545	937	Allowed	4.8	0	0
SK-N544	929.15	Allowed	11.45	0	0
SK-N543	927.2	Allowed	12.73	0	0
SK-N542	918.75	Allowed	14.22	0	0
SK-N551	933	Allowed	9.29	0	0
SK-N550	931.299	Allowed	13.25	0	0
SK-N418	966.04	Allowed	5.34	0	0
SK-N416	957.55	Allowed	-1.34	60.6	14416.66
SK-N415	946.239	Allowed	-2.44	218.3	57603.1
SK-N413	935.44	Allowed	-1.98	246.9	31613.1
SK-N412	931.96	Allowed	-3.18	407.9	127341.36
SK-N411	930.719	Allowed	-1.77	357.2	25683.08
SK-N410	929.76	Allowed	-1.17	207.1	11219.27
SK-N419	972.699	Allowed	7.4	0	0
SK-N414	950.44	Allowed	5.84	0	0
SK-N432	953.299	Allowed	5.43	0	0
SK-N430	951.919	Allowed	4.79	0	0
SK-N429	949.59	Allowed	4.91	0	0
SK-N428	947.38	Allowed	5.04	0	0
SK-N425	945.2	Allowed	5.39	0	0
SK-N422	940.34	Allowed	6.84	0	0
SK-N421	938.739	Allowed	6.24	0	0
SK-N420	936	Allowed	9.59	0	0
SK-N409	929.48	Allowed	0.89	0	0
SK-N408	929.419	Allowed	0.91	0	0
SK-N503	928.9	Allowed	-0.34	97	2187.82
SK-N502	928	Allowed	-1.07	260.8	9832.06
SK-N501	927.349	Allowed	-1.1	282.3	10368.81
SK-N528	929	Allowed	5.36	0	0
SK-N529	927.7	Allowed	4.37	0	0
SK-N525	927.5	Allowed	6.15	0	0
SK-N522	919.7	Allowed	7.9	0	0
SK-N521	911.789	Allowed	3.1	0	0
SK-N423	945.4	Allowed	6.19	0	0
SK-N424	940.7	Allowed	9.94	0	0
SK-N427	949.15	Allowed	2.47	0	0
SK-N310	981.88	Allowed	-0.54	75.2	3842.16
SK-N311	973.099	Allowed	-0.25	80.3	1587.03
SK-N312	948.78	Allowed	2.3	0	0
SK-N313	946.799	Allowed	3.83	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Skunk-Jones hydraulic nodes					
SK-N314	942.88	Allowed	4.79	0	0
SK-N315	940.979	Allowed	1.05	0	0
SK-N320	1028.4	Allowed	11.38	0	0
SK-N321	1013.5	Allowed	6.25	0	0
SK-N322	971.4	Allowed	3.98	0	0
SK-N323	957.6	Allowed	8.69	0	0
SK-N324	955.3	Allowed	9.53	0	0
SK-N326	976.75	Allowed	5.19	0	0
SK-N325	982.18	Allowed	8.22	0	0
SK-N329	1061.34	Allowed	7.8	0	0
SK-N328	1029.25	Allowed	7.16	0	0
SK-N330	1006.25	Allowed	3.66	0	0
SK-N327	997.83	Allowed	3.33	0	0
SK-N234	1031.51	Allowed	4.07	0	0
SK-N235	1039.56	Allowed	8.42	0	0
SK-N236	1062.92	Allowed	10.63	0	0
SK-N166	1029.25	Allowed	4.03	0	0
SK-N161	1018.26	Allowed	5.09	0	0
SK-N156	1006.07	Allowed	4.2	0	0
SK-N152	1000	Allowed	-1.26	55.2	12845.16
SK-N173	1045.56	Allowed	4.51	0	0
SK-N171	1034.85	Allowed	3.04	0	0
SK-N169	1031.79	Allowed	2.61	0	0
SK-N167	1030.25	Allowed	3.51	0	0
SK-N168	1033	Allowed	5	0	0
SK-N436	964.159	Allowed	8.99	0	0
SK-N435	961.859	Allowed	5.38	0	0
SK-N434	960.38	Allowed	5.06	0	0
SK-N433	957.3	Allowed	2.27	0	0
SK-N500	926	Allowed	-1.32	304.5	14585.7
SK-N401	926.32	Allowed	5.58	0	0
SK-N400	925.56	Allowed	3.41	0	0
SK-N513	919.9	Allowed	-0.01	4.2	1.63
SK-N511	916.9	Allowed	7.35	0	0
SK-N307	931.5	Allowed	3.39	0	0
SK-N306	927.299	Allowed	0.82	0	0
SK-N300	926.2	Allowed	1.08	0	0
SK-N317	935.58	Allowed	-0.38	38.6	2515
SK-N308	931.72	Allowed	3.35	0	0
SK-N318	938.8	Allowed	2.98	0	0
SK-N316	938.146	Allowed	-0.26	121.3	1566.22
SK-N303	926.7	Allowed	1.21	0	0
SK-N304	926.8	Allowed	1.19	0	0
SK-N302	926.4	Allowed	1.21	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Skunk-Jones hydraulic nodes					
SK-N301	926.3	Allowed	1.08	0	0
SK-N305	927.1	Allowed	5.19	0	0
SK-N213	926	Allowed	1.1	0	0
SK-N212	925.93	Allowed	3.4	0	0
SK-N211	925.6	Allowed	1.99	0	0
SK-N208	925.13	Allowed	2.76	0	0
SK-N207	925.02	Allowed	3.22	0	0
SK-N206	924.88	Allowed	3.31	0	0
SK-N205	924.81	Allowed	3.61	0	0
SK-N204	924.5	Allowed	2.76	0	0
SK-N600	926.7	Allowed	1.02	0	0
SK-N214	930.83	Allowed	1.21	0	0
SK-N228	972.7	Allowed	4	0	0
SK-N229	968.5	Allowed	-0.8	32.1	6357.09
SK-N164	1015.45	Allowed	5.53	0	0
SK-N162	1013.2	Allowed	3.73	0	0
SK-N157	999	Allowed	3.98	0	0
SK-N227	968.25	Allowed	-0.43	27.4	2856.21
SK-N226	953.88	Allowed	1.24	0	0
SK-N225	951.96	Allowed	2.88	0	0
SK-N224	951	Allowed	1.88	0	0
SK-N403	927	Allowed	2.19	0	0
SK-N431	953.78	Allowed	3.32	0	0
SK-N221	945.5	Allowed	2.67	0	0
SK-N222	949	Allowed	2.76	0	0
SK-N231	982	Allowed	2.28	0	0
SK-N232	1004.5	Allowed	3.85	0	0
SK-N233	1008.98	Allowed	5.95	0	0
SK-N220	937	Allowed	1.41	0	0
SK-N223	947.75	Allowed	3.72	0	0
SK-N219	934.5	Allowed	-0.96	53.8	9128.37
SK-N218	934.399	Allowed	-0.26	32.8	1729.38
SK-N215	931.46	Allowed	3	0	0
SK-N165	1020.25	Allowed	3.9	0	0
SK-N163	1016.7	Allowed	4.32	0	0
SK-N160	1007.785	Allowed	8.61	0	0
SK-N159	1006	Allowed	7.15	0	0
SK-N170	1031.81	Allowed	2.92	0	0
SK-N172	1042.97	Allowed	4.07	0	0
SK-N147	987	Allowed	2.52	0	0
SK-N146	983.799	Allowed	1.85	0	0
SK-N145	980	Allowed	2.79	0	0
SK-N144	975.5	Allowed	3.74	0	0
SK-N143	973	Allowed	2.81	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Skunk-Jones hydraulic nodes					
SK-N142	971.87	Allowed	2.12	0	0
SK-N141	967.2	Allowed	5.34	0	0
SK-N140	966.96	Allowed	4.95	0	0
SK-N139	961.53	Allowed	2.85	0	0
SK-N138	960.45	Allowed	3.15	0	0
SK-N137	959.47	Allowed	2.47	0	0
SK-N136	958.36	Allowed	2.46	0	0
SK-N135	955.54	Allowed	1.65	0	0
SK-N130	941.66	Allowed	2.89	0	0
SK-N129	940.77	Allowed	2.59	0	0
SK-N128	939.72	Allowed	2.57	0	0
SK-N127	938.59	Allowed	2.67	0	0
SK-N126	937.81	Allowed	2.6	0	0
SK-N125	937.26	Allowed	3.4	0	0
SK-N124	936.47	Allowed	3.22	0	0
SK-N123	935.24	Allowed	3.24	0	0
SK-N122	934.71	Allowed	2.93	0	0
SK-N121	933.55	Allowed	2.3	0	0
SK-N120	932.34	Allowed	3.39	0	0
SK-N119	930.78	Allowed	2.47	0	0
SK-N118	929.91	Allowed	2.71	0	0
SK-N117	929.25	Allowed	3.64	0	0
SK-N116	928.44	Allowed	3.27	0	0
SK-N115	927.47	Allowed	4.04	0	0
SK-N114	927.03	Allowed	3.24	0	0
J-N110	1025	Allowed	37.07	0	0
J-N109	1011	Allowed	50.27	0	0
J-N108	997	Allowed	41.85	0	0
J-N107	983	Allowed	47.14	0	0
J-N106	966	Allowed	51.96	0	0
J-N105	951	Allowed	51.37	0	0
J-N104	939	Allowed	24.53	0	0
J-N103	939	Allowed	17.74	0	0
J-N102	924	Allowed	23.43	0	0
J-N101	917	Allowed	29.46	0	0
J-N100	900.5	Allowed	39.42	0	0
SK-N440	965	Allowed	-1.52	243	19348.27
SK-N113	925.28	Allowed	4.42	0	0
SK-N112	924.87	Allowed	4.67	0	0
SK-N111	923.13	Allowed	5.94	0	0
SK-N110	922.67	Allowed	6.45	0	0
SK-N109	922.03	Allowed	7.16	0	0
SK-N108	921.75	Allowed	7.55	0	0
SK-N102	918	Allowed	9.79	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Skunk-Jones hydraulic nodes					
SK-N101	916	Allowed	11.58	0	0
SK-N201	920	Allowed	8.33	0	0
SK-N202	921.5	Allowed	8.04	0	0
SK-N203	923	Allowed	6.59	0	0
SK-N150	991	Allowed	4.93	0	0
SK-N149	996.02	Allowed	4.02	0	0
SK-N148	997.52	Allowed	3.35	0	0
SK-N134	953.1	Allowed	2.63	0	0
SK-N133	953	Allowed	2.73	0	0
SK-N132	950.58	Allowed	1.68	0	0
SK-N131	949.39	Allowed	2.82	0	0
SK-N107	920.75	Allowed	7.96	0	0
SK-N104	918.34	Allowed	9.23	0	0
SK-N622	944	Allowed	3.16	0	0
SK-N621	943.5	Allowed	3.02	0	0
SK-N619	943	Allowed	2.82	0	0
SK-N620	943	Allowed	2.75	0	0
SK-N618	941	Allowed	2.4	0	0
SK-N617	941	Allowed	2.44	0	0
SK-N616	938	Allowed	2.71	0	0
SK-N615	938	Allowed	2.79	0	0
SK-N614	933	Allowed	1.71	0	0
SK-N613	933	Allowed	1.73	0	0
SK-N612	933	Allowed	1.99	0	0
SK-N611	933	Allowed	2.01	0	0
SK-N610	933	Allowed	2.27	0	0
SK-N609	933	Allowed	2.3	0	0
SK-N608	932	Allowed	1.89	0	0
SK-N607	932	Allowed	1.9	0	0
SK-N606	932	Allowed	2.08	0	0
SK-N605	932	Allowed	2.1	0	0
SK-N604	932	Allowed	2.57	0	0
SK-N603	932	Allowed	2.63	0	0
SK-N602	930.5	Allowed	2.25	0	0
SK-N601	929	Allowed	2.35	0	0
SK-N512	917.5	Allowed	4.84	0	0
SK-N524	923.299	Allowed	5.9	0	0
SK-N549	934	Allowed	2.38	0	0
SK-N158	1028	Allowed	2.27	0	0
SK-N155	1014.08	Allowed	1.04	0	0
SK-N154	1011.433	Allowed	2.89	0	0
SK-N541	900	Allowed	34.89	0	0
SK-N540	899.5	Allowed	35.91	0	0
SK-N520	895	Allowed	35.59	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Skunk-Jones hydraulic nodes					
SK-N510	887.5	Allowed	37.6	0	0
SK-N153	1008.737	Allowed	1.91	0	0
SK-N151	1003.342	Allowed	2.17	0	0
SK-N704	1072.32	Allowed	2.63	0	0
SK-N703	1072.388	Allowed	1.92	0	0
SK-N702	1070.873	Allowed	1.44	0	0
SK-N701	1070.82	Allowed	3.03	0	0
SK-N706	1073.12	Allowed	2.48	0	0
SK-N707	1073.02	Allowed	2.64	0	0
SK-N708	1073.5	Allowed	5.51	0	0
SK-N709	1074.72	Allowed	5.35	0	0
SK-N712	1074.7	Allowed	7.87	0	0
SK-N713	1075.45	Allowed	2.12	0	0
SK-N714	1076.53	Allowed	1.42	0	0
SK-N716	1075.38	Allowed	2.32	0	0
SK-N715	1074.41	Allowed	7.33	0	0
SK-N718	1069.64	Allowed	11.02	0	0
SK-N710	1076.55	Allowed	4.86	0	0
SK-N711	1075.6	Allowed	0.29	0	0
SK-N717	1065.9	Allowed	12.65	0	0
SK-N719	1065.9	Allowed	13.22	0	0
SK-N720	1076.45	Allowed	5.69	0	0
SK-N721	1076.36	Allowed	3.09	0	0
SK-N722	1076.95	Allowed	5.48	0	0
SK-N723	1077.38	Allowed	4.75	0	0
SK-N724	1078.63	Allowed	3.76	0	0
SK-N725	1078.74	Allowed	2.2	0	0
SK-N726	1077.62	Allowed	1.78	0	0
SK-N727.1	1078.2	Allowed	2.33	0	0
SK-N216	933.4	Allowed	0.77	0	0
SK-N210	925.46	Allowed	1.52	0	0
SK-N209	925.19	Allowed	2.75	0	0
SK-N437	955	Allowed	6.6	0	0
SK-N230	975.099	Allowed	2.35	0	0
SK-N527	931.9	Allowed	5.91	0	0
SK-N526	934.25	Allowed	3.51	0	0
SK-N523	927.55	Allowed	4.92	0	0
SK-N309	1002.05	Allowed	3.68	0	0
SK-N319	940	Allowed	-0.04	15.1	155.13
SK-N103	918	Allowed	9.31	0	0
SK-N106	919.4	Allowed	7.1	0	0
SK-N105	919.16	Allowed	7.21	0	0
SK-N217	933.6	Allowed	-0.92	56	8391.9
SK-N402	927	Allowed	4.69	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Skunk-Jones hydraulic nodes					
SK-N439	969.46	Allowed	6.17	0	0
SK-N100	887	Allowed	38.41	0	0
SK-N417	960	Allowed	5.14	0	0
SK-N554	957.5	Allowed	4.25	0	0
SK-N555	944.9	Allowed	12.46	0	0
SK-N553	936.75	Allowed	6.27	0	0
SK-N552	934.4	Allowed	8.36	0	0
SK-N438	964.44	Allowed	4.1	0	0
SK-N407	932.5	Allowed	3.19	0	0
SK-N405	932.4	Allowed	4.69	0	0
SK-N406	932.099	Allowed	4.2	0	0
SK-N404	930.5	Allowed	4.7	0	0
SK-N200	918	Allowed	9.97	0	0
SK-N804	1183.42	Allowed	1.4	0	0
SK-N803	1183	Allowed	3.6	0	0
SK-N801	1180.47	Allowed	1.63	0	0
SK-N705	1074.12	Allowed	2.23	0	0
SK-N806	1177	Allowed	1.98	0	0
SK-N805	1178	Allowed	3.13	0	0
SK-N802	1178.4	Allowed	1.07	0	0
R-N001	885	Allowed	36.95	0	0
R-N002	893	Allowed	37.07	0	0
R-N003	902	Allowed	43.54	0	0
SK-N504	924.5	Allowed	3.47	0	0
SK-N402.1	926.81	Allowed	5.21	0	0
SK-N317.1	933.65	Allowed	3.23	0	0
SK-N158.1	1047	None	1.01	0	0
SK-N727	1081.42	Allowed	2.7	0	0
Node296	1080.29	Allowed	2.28	0	0
Node297	1079.64	Allowed	2.61	0	0
Node298	1079.97	Allowed	2.55	0	0
Node299	1079.12	Allowed	3.07	0	0
Node300	1078.73	Allowed	2.72	0	0
Node301	1077.76	Allowed	1.92	0	0
Node303	1077.43	Allowed	1.75	0	0
Node304	1077.13	Allowed	2.3	0	0
Node305	1077.19	Allowed	2.28	0	0
Node306	1075.81	Allowed	2.41	0	0
Node307	1076.2	Allowed	2.91	0	0
Node307.1	1076.34	Allowed	3.07	0	0
Node309	1076.47	Allowed	1.91	0	0
Node310	1076.47	Allowed	1.91	0	0
Node311	1076.42	Allowed	1.9	0	0
Node312	1076.08	Allowed	2.59	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Skunk-Jones hydraulic nodes					
Node313	1075.88	Allowed	1.64	0	0
Node312.1	1075.96	Allowed	1.79	0	0
Node312.2	1076.06	Allowed	2.68	0	0
Node317	1076.3	Allowed	1.26	0	0
Node318	1076.29	Allowed	1.27	0	0
Node319	1076.13	Allowed	0.66	0	0
Node320	1076.01	Allowed	-0.08	16.3	474.07
SK-N710.1	1075.56	Allowed	5.32	0	0
Node322	1070.92	Allowed	3.6	0	0
Node323	1072.92	Allowed	1.72	0	0
Node324	1072.81	Allowed	1.53	0	0
Node325	1072.95	Allowed	3.43	0	0
Node326	1073.14	Allowed	1.45	0	0
Node325.1	1073.04	Allowed	2.41	0	0
Node328	1073.11	Allowed	2.32	0	0
Node329	1072.47	Allowed	1.27	0	0
Node330	1071	Allowed	0.44	0	0
Node331	1072.47	Allowed	1.28	0	0
Node334	1069.6	Allowed	4.72	0	0
SK-N701.1	1069.74	Allowed	4.53	0	0
SK-N701.2	1070.09	Allowed	4.07	0	0
SK-N701.3	1070.19	Allowed	4	0	0
Node338	1183.24	Allowed	5.57	0	0
Node339	1184.42	Allowed	2.89	0	0
Node340	1184.65	Allowed	2.05	0	0
Node341	1184.48	Allowed	1.93	0	0
Node342	1183.84	Allowed	1.65	0	0
Node343	1179	Allowed	2.7	0	0
Node344	1179.33	Allowed	1.12	0	0
Node345	1183.67	Allowed	1.17	0	0
Node347	1183.1	Allowed	1.94	0	0
Node349	1183.18	Allowed	1.59	0	0
Node350	1182.32	Allowed	-0.59	98.3	4674.37
Node351	1182.93	Allowed	0.5	0	0
Node351.1	1182.72	Allowed	0.68	0	0
Node354	1181.6	Allowed	-0.53	95.2	3585.66
Node356	1182.01	Allowed	-0.18	84.2	1082.27
Node357	1182.35	Allowed	0.16	0	0
Node358	1181.91	Allowed	0.94	0	0
Node359	1182.01	Allowed	-0.03	61.5	229.26
Node360	1182.39	Allowed	1.38	0	0
Node361	1182.36	Allowed	1.36	0	0
Node362	1182.32	Allowed	1.36	0	0
Node363	1182.5	Allowed	2.58	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Skunk-Jones hydraulic nodes					
Node364	1182.3	Allowed	2.45	0	0
Node365	1182.1	Allowed	2.58	0	0
Node367	1181.7	Allowed	2.45	0	0
Node368	1181.92	Allowed	0.86	0	0
Node369	1182.03	Allowed	1.48	0	0
Node370	1181.54	Allowed	0.92	0	0
Node371	1181.19	Allowed	3.45	0	0
Node372	1179.92	Allowed	1.34	0	0
Node373	1179.64	Allowed	1.06	0	0
Node374	1180.77	Allowed	2.03	0	0
Node375	1180.81	Allowed	2.26	0	0
Node376	1180.64	Allowed	1.21	0	0
Node379	1180.63	Allowed	1.95	0	0
Node380	1179.72	Allowed	2.09	0	0
Node381	1180.8	Allowed	1.42	0	0
Node382	1179.86	Allowed	2.24	0	0
Node383	1179.86	Allowed	2.26	0	0
Node384	1180.18	Allowed	2.59	0	0
Node385	1179.34	Allowed	2.43	0	0
Node386	1179.5	Allowed	2.59	0	0
G-N278	1178.84	Allowed	1.63	0	0
SK-N500.1	925.35	Allowed	2.01	0	0
SK-N415.1	939.85	Allowed	0.06	0	0
SK-N414.1	942.94	Allowed	4.52	0	0
SK-N439.1	966.73	Allowed	5.04	0	0
SK-N418.1	962.91	Allowed	3.84	0	0
SK-N419.1	969.37	Allowed	7.08	0	0
SK-N309.1	992.33	Allowed	3.66	0	0
SK-N324.1	945.85	Allowed	7.22	0	0
SK-N324.2	953.38	Allowed	9.33	0	0
SK-N321.1	997.83	Allowed	5.59	0	0
SK-N227.1	959.418	Allowed	3.65	0	0
SK-N167.1	1025.71	Allowed	3.79	0	0
SK-N157.1	997.47	Allowed	3.96	0	0
Node401	1076.97	Allowed	11.41	0	0
Node331.1	1072.36	Allowed	1.19	0	0
Node387.1	1090.2	Allowed	0.03	0	0
G-N143	1077.34	Allowed	-0.97	89.1	8752.82
Node406	1177	Allowed	7.36	0	0
Node406.1	1153.34	Allowed	6.15	0	0
Node406.2	1165.09	Allowed	6.6	0	0
Node406.3	1132.61	Allowed	4.7	0	0
SK-N805.1	1162.1	Allowed	-0.36	17	2410.91
SK-N805.4	1159.1	Allowed	2.33	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Skunk-Jones hydraulic nodes					
SK-N805.2	1154	Allowed	2	0	0
SK-N805.3	1150.4	Allowed	2.13	0	0
Node414	1136.9	Allowed	1.88	0	0
Node414.1	1135.9	Allowed	1.78	0	0
Node414.2	1136.18	Allowed	2	0	0
Node418	1136.1	Allowed	2	0	0
Node414.6	1125.2	Allowed	2.32	0	0
Node414.4	1121.2	Allowed	1.91	0	0
Node414.5	1118.3	Allowed	2.4	0	0
Node422	1113.82	Allowed	2.25	0	0
Node422.1	1110.18	Allowed	1.9	0	0
Node422.2	1081.98	Allowed	-0.34	108.1	2222.99
Node425	1134.8	Allowed	2.28	0	0
Node426	1111	Allowed	1.66	0	0
Node427	1111.4	Allowed	2.18	0	0
Node428	1106.4	Allowed	1.43	0	0
Node427.1	1109.83	Allowed	1.94	0	0
Node425.1	1125.2	Allowed	2.11	0	0
Node387.2	1091.2	Allowed	1.49	0	0
Node387.3	1099	Allowed	-0.15	12.9	856.57
Node387.4	1086.3	Allowed	-0.83	55	7067.24
Node387.3.	1083.8	Allowed	0.86	0	0
SK-N307.1	930.572	Allowed	2.73	0	0
SK-N318.1	938.32	Allowed	-0.34	124.7	2128.71
SK-N317.2	935.13	Allowed	2.61	0	0
SK-N218.1	934	Allowed	-0.58	47.3	4915.05
Node440	1069.45	Allowed	4.55	0	0
Node441	956.52	Allowed	2.91	0	0
Node442	956.37	Allowed	3.54	0	0
Node443	956.05	Allowed	4.31	0	0
Node444	954.97	Allowed	4.18	0	0
Node445	953.95	Allowed	3.79	0	0
Node446	952.45	Allowed	3.19	0	0
Node447	950.9	Allowed	2.07	0	0
Node448	944	Allowed	2.63	0	0
Node449	938.4	Allowed	1.08	0	0
Node450	937.8	Allowed	1.84	0	0
Node451	937.2	Allowed	6.45	0	0
Node452	937.2	Allowed	8.6	0	0
Node453	935.8	Allowed	1.33	0	0
Node455	933.8	Allowed	2.16	0	0
Node456	934.2	Allowed	1.81	0	0
G-Node319	1176.2	Allowed	5.38	0	0
G-Node320	1176.2	Allowed	5.34	0	0

Node Name	Invert Elevation (ft.)	Gound Elevation (ft.)	Freeboard (ft.)	Flood Duration (min.)	Flooded Volume (cf.)
Skunk-Jones hydraulic nodes					
GNode320.2	1178.77	Allowed	3.36	0	0
GNode320.1	1178.44	Allowed	3.26	0	0
G-Node322	1177.61	Allowed	3	0	0
G-Node325	1177.89	Allowed	3	0	0
G-Node326	1178.08	Allowed	2.5	0	0
GNode326.1	1175.82	Allowed	4.38	0	0
G-Node327	1174.66	Allowed	5.34	0	0
G-N279-1	1177.21	Allowed	2.69	0	0
Node468	1176.42	Allowed	2	0	0
G-N144	1074.55	Allowed	4.03	0	0
G-N144B	1073.5	Allowed	5.35	0	0
Node471	1062.985	Sealed	10.59	0	0
SK-N717.1	1065.34	Sealed	12.13	0	0
Node473	959.6	Allowed	5	0	0
Node474	957.2	Allowed	5	0	0
Node475	953.6	Allowed	5	0	0
Node476	950.7	Allowed	5	0	0
Node477	948.25	Allowed	4.21	0	0
Node478	951.5	Allowed	5	0	0
Node479	962.3	Allowed	5	0	0
Node480	950.3	Allowed	5	0	0
SK-N158.2	1043.5	None	0	36.1	0
Node324.1	1051	Allowed	2.67	0	0

Name	Subcatchment	Slope	Impervious Percentage %	Area (acres)	Width (ft)
Skunk-Jones hydrologic nodes					
SK-N547	1	0.006	28.3%	5.413	161.5
SK-N546	1	0.010	22.9%	4.366	89.4
SK-N545	1	0.010	29.%	0.756	38.4
SK-N543	1	0.005	29.3%	6.628	151.6
SK-N542	1	0.009	22.%	6.192	142
SK-N551	1	0.012	21.8%	10.869	165.9
SK-N418	1	0.037	73.%	17.806	234.96
SK-N416	1	0.030	39.2%	61.808	654.96
SK-N415	1	0.014	67.3%	5.251	145.84
SK-N413	1	0.014	64.1%	30.427	440.4
SK-N412	1	0.034	63.%	3.317	83.36
SK-N410	1	0.017	63.5%	22.483	246.48
SK-N414	1	0.017	44.3%	7.467	276.24
SK-N430	1	0.009	53.8%	1.495	51.36
SK-N425	1	0.009	73.5%	2.273	50.16
SK-N420	1	0.008	69.9%	5.238	121.44
SK-N409	1	0.012	44.5%	35.819	227.2
SK-N503	1	0.003	68.9%	13.792	156.88
SK-N502	1	0.004	69.8%	6.583	115.28
SK-N528	1	0.004	44.5%	10.544	161.6
SK-N528	2	0.004	72.6%	17.301	467.49
SK-N529	1	0.006	24.2%	3.984	134.8
SK-N525	1	0.004	26.3%	1.478	64.5
SK-N522	1	0.007	25.8%	6.836	123
SK-N521	1	0.020	23.1%	1.236	49.9
SK-N423	1	0.009	41.%	3.113	95.6
SK-N424	1	0.012	54.5%	10.409	204.5
SK-N427	1	0.022	24.6%	13.21	189.9
SK-N310	1	0.043	23.8%	21.147	236.7
SK-N311	1	0.052	24.3%	5.172	115.75
SK-N312	1	0.044	21.5%	20.994	276.2
SK-N315	1	0.019	29.4%	15.447	237.4
SK-N320	1	0.060	25.9%	2.881	110.5
SK-N322	1	0.041	22.5%	30.946	278.1
SK-N323	1	0.032	22.1%	6.141	126.05
SK-N324	1	0.033	23.%	22.42	221.15
SK-N326	1	0.045	22.5%	20.355	214.85
SK-N328	1	0.087	21.2%	2.93	158.5
SK-N234	1	0.038	23.%	11.377	273.28
SK-N166	1	0.037	81.1%	1.907	152.9
SK-N161	1	0.041	69.9%	10.427	290.3
SK-N156	1	0.025	73.8%	4.422	229.5
SK-N152	1	0.025	75.9%	2.135	104

Name	Subcatchment	Slope	Impervious Percentage %	Area (acres)	Width (ft)
Skunk-Jones hydrologic nodes					
SK-N173	1	0.041	89.9%	2.023	164.5
SK-N171	1	0.029	54.1%	13.678	384.3
SK-N168	1	0.044	42.4%	7.681	270.45
SK-N436	1	0.040	10.%	2.086	83.4
SK-N434	1	0.039	42.5%	9.02	226.8
SK-N433	1	0.018	40.5%	7.4	172.4
SK-N500	1	0.006	66.4%	14.41	205.2
SK-N401	1	0.003	66.3%	16.774	136.08
SK-N400	1	0.013	72.%	8.861	119.36
SK-N513	1	0.010	23.7%	4.145	196.2
SK-N513	2	0.003	47.7%	29.504	579.382
SK-N511	1	0.009	24.4%	2.528	104
SK-N307	1	0.008	62.2%	15.017	261.68
SK-N306	1	0.007	38.7%	7.906	13.4
SK-N317	1	0.024	52.5%	17.516	230.8
SK-N308	1	0.011	42.3%	15.906	132.72
SK-N318	1	0.031	38.6%	4.973	118.96
SK-N304	1	0.009	69.4%	8.844	196.96
SK-N305	1	0.011	46.3%	15.939	182.96
SK-N213	1	0.007	63.7%	10.846	179.44
SK-N213	2	0.004	81.8%	10.613	303.526
SK-N205	1	0.003	56.%	35.673	270.48
SK-N204	1	0.008	33.5%	11.646	155.2
SK-N600	1	0.011	65.8%	6.955	143.36
SK-N214	1	0.004	78.7%	6.051	115.28
SK-N229	1	0.026	28.%	13.76	206.08
SK-N227	1	0.035	27.%	9.775	214.48
SK-N226	1	0.014	37.%	5.997	131.6
SK-N431	1	0.016	18.9%	3.477	128.8
SK-N221	1	0.017	37.%	26.285	281.4
SK-N232	1	0.044	30.%	8.532	231.28
SK-N223	1	0.028	43.%	27.528	197.68
SK-N219	1	0.015	37.%	11.943	135.016
SK-N218	1	0.013	38.%	3.213	105
SK-N215	1	0.004	57.4%	9.725	36.96
SK-N163	1	0.018	79.8%	5.839	225
SK-N170	1	0.034	81.1%	8.952	260.6
SK-N172	1	0.026	85.4%	3.07	159.05
SK-N147	1	0.025	79.2%	5.872	50
SK-N146	1	0.022	55.5%	21.937	210
SK-N146	2	0.015	78.7%	2.806	220.741
SK-N145	1	0.022	58.9%	35.279	235
SK-N141	1	0.016	64.9%	17.595	200
SK-N140	1	0.023	76.7%	6.78	171.8

Name	Subcatchment	Slope	Impervious Percentage %	Area (acres)	Width (ft)
Skunk-Jones hydrologic nodes					
SK-N137	1	0.019	51.7%	4.107	163.36
SK-N128	1	0.008	63.5%	6.482	133.92
SK-N127	1	0.008	65.5%	3.573	103.12
SK-N125	1	0.014	55.2%	21.159	257.6
SK-N122	1	0.008	60.3%	9.033	255.52
SK-N120	1	0.007	51.%	11.597	173.68
SK-N119	1	0.007	59.2%	10.834	257.12
SK-N114	1	0.005	46.6%	11.987	170.6
J-N110	1	0.122	3.1%	2053.244	2550.9
J-N110	2	0.117	3.1%	2674.171	5756.601
J-N109	1	0.093	25.1%	318.784	639.6
J-N105	1	0.023	29.5%	13.246	137.2
J-N104	1	0.039	14.8%	45.616	282.9
J-N102	1	0.027	49.9%	32.721	294.3
J-N100	1	0.044	22.8%	22.133	467
SK-N440	1	0.008	65.6%	25.098	297.52
SK-N110	1	0.006	35.4%	20.344	329.2
SK-N102	1	0.009	25.9%	8.889	143.8
SK-N203	1	0.013	41.%	2.536	116.8
SK-N150	1	0.020	76.4%	13.8	129.95
SK-N132	1	0.022	57.6%	32.341	309.44
SK-N131	1	0.023	43.3%	28.617	228.56
SK-N131	2	0.035	27.%	27.59	306.4
SK-N622	1	0.007	43.7%	4.003	122.5
SK-N621	1	0.013	5.6%	6.905	66.25
SK-N620	1	0.014	41.%	15.031	240.8
SK-N618	1	0.002	32.1%	5.539	139.3
SK-N617	1	0.005	31.8%	0.903	40.7
SK-N616	1	0.006	46.8%	1.506	33.4
SK-N614	1	0.006	24.8%	5.331	205.4
SK-N612	1	0.006	27.5%	1.328	54.2
SK-N610	1	0.006	27.5%	0.792	54.2
SK-N608	1	0.006	4.1%	1.987	75.9
SK-N606	1	0.005	26.%	0.44	27.5
SK-N604	1	0.006	27.%	0.51	26.95
SK-N602	1	0.007	63.7%	13.83	422.24
SK-N601	1	0.004	61.3%	1.268	42.4
SK-N524	1	0.007	23.7%	4.866	128.2
SK-N549	1	0.011	43.1%	6.669	235.8
SK-N158	1	0.035	28.8%	8.605	200
SK-N155	1	0.029	49.9%	22.14	331.95
SK-N540	1	0.008	24.6%	59.587	326.2
SK-N520	1	0.023	21.9%	21.656	503.4
SK-N510	1	0.116	51.4%	1.7	104.4

Name	Subcatchment	Slope	Impervious Percentage %	Area (acres)	Width (ft)
Skunk-Jones hydrologic nodes					
SK-N151	1	0.019	58.%	7.667	214.75
SK-N702	1	0.068	31.3%	24.26	1037.2
SK-N708	1	0.034	34.%	20.054	231.28
SK-N709	1	0.030	32.%	45.626	340.48
SK-N715	1	0.029	37.%	1.249	218
SK-N717	1	0.127	25.%	11.291	487.5
SK-N719	1	0.297	8.8%	54.462	695.9
SK-N721	1	0.198	35.1%	16.826	157.2
SK-N723	1	0.330	3.%	66.645	509.7
SK-N725	1	0.260	24.1%	16.696	222.8
SK-N210	1	0.011	70.3%	2.395	65.4
SK-N437	1	0.020	34.8%	10.341	105.92
SK-N230	1	0.038	27.%	42.684	365.68
SK-N527	1	0.004	34.2%	37.749	427
SK-N526	1	0.016	43.%	0.834	81.2
SK-N523	1	0.006	27.4%	10.441	180.9
SK-N309	1	0.031	25.6%	9.963	154.75
SK-N319	1	0.048	51.2%	5.28	218.4
SK-N103	1	0.003	28.6%	11.031	194.4
SK-N217	1	0.011	37.4%	2.373	63.28
SK-N402	1	0.004	59.9%	8.808	125.68
SK-N439	1	0.082	58.2%	13.249	179.76
SK-N100	1	0.031	32.8%	7.514	135.2
SK-N100	2	0.041	29.6%	6.014	245.242
SK-N417	1	0.038	63.7%	7.01	138.56
SK-N554	1	0.017	24.5%	30.829	214.4
SK-N555	1	0.007	33.2%	7.629	156.96
SK-N553	1	0.027	21.7%	9.788	164.48
SK-N407	1	0.005	7.8%	1.373	50
SK-N404	1	0.009	31.%	5.971	153.44
SK-N200	1	0.016	27.2%	2.338	59.05
SK-N804	1	0.344	13.%	44.976	805
SK-N803	1	0.367	5.%	51.492	698
SK-N801	1	0.226	13.3%	167.603	2267.2
SK-N802	1	0.121	17.6%	7.99	302.5
R-N001	1	0.044	26.2%	7.711	180.9
R-N002	1	0.011	23.%	64.485	329
R-N003	1	0.075	33.%	217.115	687.2
SK-N504	1	0.004	46.9%	6.41	126.4
SK-N727	1	0.220	9.3%	120.313	463.2
Node318	1	0.050	37.%	18.886	382.5
Node324	1	0.026	24.8%	27.336	405.8
Node354	1	0.226	13.3%	82.867	2267.2
G-N278	1	0.190	33.8%	35.978	1661.98

Name	Subcatchment	Slope	Impervious Percentage %	Area (acres)	Width (ft)
Skunk-Jones hydrologic nodes					
G-N143	1	0.080	36.8%	16.755	1419.18
Node406	1	0.076	35.%	8.068	194
Node451	1	0.008	62.2%	15.976	261.68

Name	Subcatchment	Slope	Impervious Percentage %	Area (acres)	Width (ft)
Skunk-Jones hydrologic nodes					
G-N002	1	0.003	24.8%	9.983	280.543
G-N006	1	0.003	31.%	22.583	380.375
G-N007	1	0.004	32.%	2.772	138.278
G-N034	1	0.007	16.3%	17.877	347.293
G-N014	1	0.004	49.6%	1.676	87.525
G-N013	1	0.005	33.7%	6.253	259.641
G-N011	1	0.005	27.8%	5.83	241.417
G-N015	1	0.005	24.9%	8.659	294.134
G-N016	1	0.001	25.5%	30.364	494.675
G-N018	1	0.010	31.1%	44.735	622.158
G-N030	1	0.006	21.6%	12.507	288.949
G-N029	1	0.005	39.2%	15.518	335.223
G-N023	1	0.008	14.%	8.836	205.054
G-N053	1	0.010	32.6%	19.057	427.669
G-N052	1	0.010	35.6%	8.634	264.699
G-N051	1	0.004	35.3%	22.2	412.828
G-N042	1	0.040	37.7%	15.454	171.36
G-N041	1	0.020	67.6%	11.475	127.466
G-N067	1	0.007	51.3%	14.79	318.572
G-N066	1	0.004	33.6%	19.361	307.87
G-N065	1	0.005	34.1%	20.507	330.565
G-N064	1	0.007	37.3%	30.361	508.47
G-N061	1	0.010	33.5%	10.227	435.795
G-N075	1	0.006	42.7%	7.016	210.358
G-N072	1	0.006	43.%	6.925	227.851
G-N070	1	0.010	44.3%	9.407	301.504
G-N091	1	0.004	82.9%	10.992	573.53
G-N097	1	0.020	85.%	3.141	271.605
G-N090	1	0.002	92.%	5.418	534.69
G-N082	1	0.017	85.%	19.38	828.63
G-N079	1	0.016	87.%	11.111	1078.98
G-N089	1	0.021	95.%	13.182	680.07
G-N077	1	0.020	88.7%	6.057	602.58
G-N087	1	0.023	84.4%	8.507	487.875
G-N093	1	0.029	90.%	5.945	469.41
G-N094	1	0.017	95.%	10.714	705.39
G-N095	1	0.029	97.%	3.676	406.875
G-N096	1	0.022	92.%	6.957	680.775
G-N101	1	0.017	85.%	5.39	547.62
G-N109	1	0.008	60.9%	5.251	262.51
G-N106	1	0.006	75.%	9.223	100
G-N105	1	0.004	80.%	4.696	50

Name	Subcatchment	Slope	Impervious Percentage %	Area (acres)	Width (ft)
Skunk-Jones hydrologic nodes					
G-N104	1	0.005	72.2%	5.093	388.97
G-N107	1	0.019	85.%	2.877	289.725
G-N127	1	0.006	44.3%	2.391	160.217
G-N129	1	0.010	51.5%	6.774	233.308
G-N130	1	0.010	48.3%	23.171	513.553
G-N138	1	0.010	32.4%	7.464	235.969
G-N135	1	0.030	37.%	4.761	207.953
G-N148	1	0.070	85.7%	8.488	725.5
G-N153	1	0.030	97.1%	8.656	1000
G-N145	1	0.040	81.7%	25.54	751.14
G-N149	1	0.030	85.7%	12.15	1050.7
G-N150	1	0.020	97.%	2.483	352.26
G-N152	1	0.030	88.7%	5.903	493.9
G-N158	1	0.030	86.%	9.116	279.88
G-N167	1	0.040	71.7%	28.102	786.85
G-N199	1	0.050	33.4%	7.928	357.91
G-N200	1	0.040	33.4%	6.057	233.759
G-N181	1	0.030	35.1%	6.648	354.076
G-N179	1	0.030	34.2%	6.749	302.821
G-N177	1	0.020	39.5%	3.418	205.896
G-N191	1	0.030	34.8%	6.567	298.002
G-N176	1	0.140	32.8%	6.858	209.083
G-N172	1	0.180	24.8%	3.573	282.192
G-N170	1	0.080	16.4%	7.292	299.744
G-N174	1	0.150	26.1%	5.794	252.212
G-N190	1	0.180	16.%	42.331	497.233
G-N001	1	0.010	53.4%	13.144	255.799
G-N035	1	0.020	23.4%	18.692	315.41
G-N056	1	0.020	28.%	11.32	248.931
G-N069	1	0.020	40.9%	4.639	197.974
G-N057	1	0.010	58.5%	7.204	241.026
G-N086	1	0.006	73.%	18.709	547.51
G-N100	1	0.005	78.1%	16.867	729.35
G-N112	1	0.030	53.%	17.885	977.12
G-N245	1	0.010	32.8%	44.297	446.046
G-N126	1	0.030	34.5%	57.833	665.584
G-N234	1	0.020	32.%	20.81	282.515
G-N141	1	0.020	52.4%	18.787	374.221
G-N156	1	0.030	60.5%	7.115	210.579
G-N169-2	1	0.010	35.9%	3.13	232.815
G-N008	1	0.004	22.%	2.801	200.218
G-N036	1	0.006	30.%	7.269	171.122
G-N037	1	0.002	37.5%	8.259	333.75

Name	Subcatchment	Slope	Impervious Percentage %	Area (acres)	Width (ft)
Skunk-Jones hydrologic nodes					
G-N059	1	0.020	35.7%	27.583	434.222
G-N203	1	0.020	55.2%	44.304	546.839
G-N224	1	0.030	56.6%	31.018	494.122
G-N225	1	0.020	53.4%	7.125	196.214
G-N229	1	0.030	23.6%	4.337	209.262
G-N232	1	0.020	35.4%	7.692	235.144
G-N233	1	0.040	30.3%	11.669	285.039
G-N236	1	0.030	28.9%	31.778	430.746
G-N237	1	0.020	34.1%	25.773	388.612
G-N240	1	0.020	35.%	11.38	266.773
G-N250	1	0.050	49.3%	28.158	383.92
G-N256	1	0.030	46.9%	29.909	517.285
G-N257	1	0.010	59.6%	5.187	247.962
G-N261	1	0.007	46.9%	9.833	282.251
G-N264	1	0.006	53.%	14.416	259.769
G-N267	1	0.009	37.4%	7.603	229.432
G-N076	1	0.007	43.6%	10.195	220.524
G-N271	1	0.006	44.7%	12.969	266.169
G-N274	1	0.010	43.3%	8.967	244.477
G-N275	1	0.006	41.4%	13.782	211.599
G-N277	1	0.020	32.6%	25.171	472.685
G-N125	1	0.020	24.8%	25.098	425.051
G-N216	1	0.190	8.9%	527.118	2965.96
G-N197	1	0.080	26.1%	3.278	213.172
G-N187	1	0.080	29.4%	7.004	225.692
G-N192	1	0.040	30.%	3.74	225.82
G-N183	1	0.020	60.7%	7.106	266.977
G-N025	1	0.020	35.7%	27.169	435.285
G-N157	1	0.040	84.8%	9.738	559.32
G-N212	1	0.150	15.2%	28.854	356.405
G-N213	1	0.030	30.5%	1.252	100.504
G-N210	1	0.020	48.9%	5.925	242.327
G-N208	1	0.110	17.8%	199.733	1506.9
G-N214	1	0.040	29.5%	2.814	173.604
G-N055	1	0.003	38.2%	11.202	326.128
G-N046	1	0.010	32.8%	24.819	515.823
G-N039	1	0.020	43.3%	6.015	121.678
G-N108	1	0.003	65.2%	8.21	352.8
G-N184	1	0.100	14.2%	9.891	222.462
G-N204	1	0.060	67.8%	17.796	276.403
G-N137	1	0.190	18.3%	17.538	468.461
G-N280	1	0.220	7.6%	159.03	2051.12
G-N281	1	0.070	10.7%	27.605	283.203

Name	Subcatchment	Slope	Impervious Percentage %	Area (acres)	Width (ft)
Skunk-Jones hydrologic nodes					
G-N279-2	1	0.240	18.2%	191.889	1396.48
G-N169-1	1	0.040	35.1%	19.362	467.687
G-N182	1	0.020	37.6%	20.756	391.935
G-N133	1	0.150	13.9%	36.942	579.165
Node402	1	0.190	8.9%	122.173	2965.96
Node417	1	0.190	8.9%	59.258	2521.066
Node422	1	0.190	8.9%	90.475	2521.066
G-N215-2	1	0.040	36.%	7.803	246.072
G-N215-1	1	0.160	11.3%	72.495	605.081
G-N198	1	0.080	14.3%	18.898	288.55
G-N154.1	1	0.010	86.5%	42.437	1200
G76	1	0.086	5.%	64.47	212.5
G60	1	0.133	5.%	27.859	198.263
G58 G75	1	0.130	12.%	26.702	588.625
G61	1	0.150	25.%	14.523	1168.75
G73	1	0.134	10.%	19.76	318.75
G28 G59	1	0.044	20.%	25.545	350.965
Node613	1	0.250	25.%	96.328	1780.84
HILLSIDE1	1	0.010	33.5%	4.679	512.7
Node391.2	1	0.200	10.6%	574.411	3093.87
G-N014	2	0.003	53.4%	27.675	1117.266
G-N066	2	0.004	21.2%	6.309	382.755
G-N097	2	0.006	95.%	12.832	412.245
G-N077	2	0.006	87.%	2.043	407.64
G-N056	2	0.010	40.1%	19.758	285.719
G-N141	2	0.130	55.3%	4.94	31.612
G-N008	2	0.004	41.3%	7.578	253.19
G-N240	2	0.040	56.3%	17.024	262.514
G-N256	2	0.009	68.3%	11.06	349.869
G-N277	2	0.020	48.3%	7.832	253.742
G-N204	2	0.190	8.9%	53.249	2521.066
G-N281	2	0.120	7.5%	324.528	1611.396
G-N133	2	0.180	43.4%	34.974	279.055
G58 G75	2	0.110	35.%	9.142	211.438
G28 G59	2	0.038	20.%	15.62	217.711

Name	Subcatchment	Slope	Impervious Percentage %	Area (acres)	Width (ft)
Skunk-Jones hydrologic nodes					
SA-N070	1	0.006	50.3%	23.111	1200
SA-N122	1	0.005	55.9%	15.832	950
SA-N144	1	0.010	39.9%	17.262	1500
SA-N131	1	0.013	58.7%	2.594	362.7
SA-N134	1	0.005	65.8%	10.395	400
SA-N145	1	0.007	69.4%	5.984	800
SA-N007	1	0.005	53.2%	12.169	558.8
SA-N003	1	0.014	37.7%	115.224	3309.9
SA-N069	1	0.006	85.8%	27.679	636.225
SA-N057	1	0.006	62.3%	36.638	1100
SA-N005	1	0.021	41.%	57.499	2094.7
SA-N102	1	0.030	39.3%	36.163	2000
SA-N159	1	0.006	67.5%	5.238	750
SA-N147	1	0.010	46.7%	84.366	2500
SA-N068	1	0.010	98.9%	1.438	145.484
SA-N084	1	0.004	53.2%	4.319	350
SA-N168	1	0.009	63.4%	2.841	380
SA-N137	1	0.010	58.5%	6.304	700
SA-N121	1	0.004	48.2%	3.516	1180
SA-N133	1	0.011	43.9%	7.881	1400
SA-N135	1	0.012	60.9%	4.163	550
SA-N113	1	0.004	54.9%	1.985	600
SA-N139	1	0.007	35.6%	19.046	1100
SA-N160	1	0.004	50.%	12.901	1600
SA-N128	1	0.005	64.%	2.47	450
SA-N129	1	0.006	72.9%	1.982	250.7
SA-N130	1	0.005	84.5%	7.528	697.3
SA-N124	1	0.005	51.%	23.911	1300
SA-N083	1	0.016	52.5%	6.243	305.8
SA-N078	1	0.015	54.4%	6.188	1000
SA-N081	1	0.007	50.%	14.31	700
SA-N115	1	0.018	54.1%	1.925	300
SA-N117	1	0.006	60.7%	3.056	550
SA-N118	1	0.008	44.7%	10.75	1200
SA-N119	1	0.019	52.4%	1.704	300
SA-N100	1	0.013	44.8%	8.44	800
SA-N085	1	0.011	71.%	19.794	393.8
SA-N091	1	0.005	52.%	16.755	1500
SA-N093	1	0.007	50.2%	16.485	1500
SA-N097	1	0.017	49.%	2.546	400
SA-N098	1	0.009	43.3%	8.617	1500
SA-N110	1	0.009	56.7%	7.386	1300

Name	Subcatchment	Slope	Impervious Percentage %	Area (acres)	Width (ft)
Skunk-Jones hydrologic nodes					
SA-N074	1	0.013	63.4%	3.729	382.371
SA-N075	1	0.009	70.3%	3.888	298.691
SA-N077	1	0.005	69.6%	3.729	272.198
SA-N056	1	0.011	46.9%	18.555	1000
SA-N065	1	0.007	62.4%	27.516	778
SA-N050	1	0.015	58.%	17.858	391
SA-N053	1	0.010	48.%	2.233	1500
SA-N055	1	0.011	57.4%	13.155	1500
SA-N049	1	0.006	87.8%	7.61	431.4
SA-N023	1	0.006	69.3%	1.874	120.989
SA-N038	1	0.013	68.5%	3.194	197.547
SA-N047	1	0.041	73.1%	2.961	122.261
SA-N040	1	0.100	61.5%	1.881	192.353
SA-N041	1	0.027	64.%	3.17	247.28
SA-N044	1	0.086	64.1%	3.438	242.296
SA-N149	1	0.005	54.4%	2.19	850
SA-N142	1	0.006	62.9%	20.648	800
SA-N125	1	0.009	56.3%	4.343	800
SA-N126	1	0.012	44.5%	10.805	1039.6
SA-N114	1	0.017	53.%	4.627	800
SA-N018	1	0.020	55.7%	49.005	1000
SA-N006	1	0.005	54.2%	9.199	1829.9
SA-N153	1	0.016	52.%	1.755	353.34
SA-N155	1	0.007	39.%	4.913	1500
SA-N143	1	0.005	55.%	12.999	570.7
SA-N151	1	0.008	23.6%	12.39	700
SA-N012	1	0.010	42.2%	13.498	785.7
SA-N046	1	0.048	64.%	6.091	348.333
SA-N087	1	0.009	28.4%	10.08	589.5
SA-N103	1	0.030	44.6%	131.195	2500
SA-N071	1	0.008	62.7%	10.448	350
SA-N039	1	0.044	54.5%	1.83	123.322
SA-N001	1	0.062	29.5%	732.317	4498.9
SA-N017	1	0.043	28.6%	299.684	3058.9
SA-N054	1	0.007	55.1%	32.979	1200
SA-N067	1	0.061	39.%	7.983	500
SA-N082	1	0.067	27.9%	2.599	338.5
SA-N073	1	0.007	47.8%	2.441	1000
SA-N167	1	0.007	39.%	12.211	2000
SA-N107	1	0.014	40.9%	149.687	2500.5
R-N001	1	0.007	51.1%	17.553	851.1
R-N007	1	0.010	14.%	44.823	1003.1
R-N008	1	0.010	23.4%	41.978	1113.8

Name	Subcatchment	Slope	Impervious Percentage %	Area (acres)	Width (ft)
Skunk-Jones hydrologic nodes					
SA-N166	1	0.005	62.%	12.872	538.2
SA-N172	1	0.014	47.8%	1.541	1500
SA-N170	1	0.010	50.3%	1.34	500
SA-N162	1	0.019	51.7%	1.265	252.5
SA-N157	1	0.011	56.4%	4.253	700
SA-N156	1	0.015	52.2%	1.708	381.34
SA-N164	1	0.011	58.4%	2.559	400
SA-N163	1	0.005	64.5%	5.796	234.3
SA999	1	0.036	98.%	14.263	2196.038
Node208	1	0.022	42.1%	66.225	923.694
Node295	1	0.021	62.%	18.869	1100
Node306	1	0.005	45.2%	34.788	1138.4
Node376	1	0.015	54.8%	110.11	1693.5
Node361	1	0.007	47.%	21.922	1500
Node371	1	0.006	55.%	14.446	1134.6
Node372	1	0.006	55.%	14.044	1134.6
SA-N029	2	0.015	54.8%	37.952	1693.5
SA-N121	2	0.006	62.4%	18.203	1134.6
SA-N091	2	0.005	48.3%	8.227	1600
SA-N077	2	0.009	43.8%	5.683	312.545
SA-N056	2	0.003	60.5%	35.163	1500
SA-N018	2	0.001	29.%	436.784	500
SA-N012	2	0.005	42.9%	77.635	1470.5
SA-N039	2	0.027	53.%	1.351	623.501
SA-N017	2	0.064	15.%	450.477	4247.3
SA-N067	2	0.022	58.5%	23.795	1800
Node292	2	0.014	38.7%	30.404	1197.4
Node293	2	0.002	49.8%	30.622	1193.5
SA-N056	3	0.010	49.3%	1.813	700
SA-N012	3	0.085	55.%	130.149	1470.5
SA-N017	3	0.064	15.%	319.644	4247.3
SA-N056	4	0.011	59.9%	7.519	1000.7
SA-N056	5	0.015	64.4%	4.585	450

Name	Subcatchment	Slope	Impervious Percentage %	Area (acres)	Width (ft)
Allen-Fruitdale hydrologic nodes					
F-N016	1	0.013	57.%	0.38	128
A-N314	1	0.011	67.%	0.651	488
F-N014	1	0.014	11.5%	0.824	234
A-N058	1	0.018	55.%	1.001	232
A-N244	1	0.011	95.%	1.211	238
A-N342	1	0.099	100.%	1.242	884
Node647	1	0.040	75.%	1.246	1143
A-N030	1	0.124	69.%	1.492	254
A-N298	1	0.021	94.4%	1.586	1232
A-N402	1	0.034	88.%	1.638	600
A-N272	1	0.035	97.3%	1.667	844
A-N440	1	0.101	69.3%	1.692	200.6
A-N418	1	0.063	38.%	1.791	600
F-N036	1	0.030	80.2%	1.86	378
F-N124	1	0.022	37.4%	1.98	117.5
A-N012	1	0.023	100.%	2.1	354
F-N034	1	0.038	59.%	2.144	412
A-N312	1	0.017	39.%	2.156	600
F-N824	1	0.110	69.7%	2.159	178
A-N034	1	0.032	74.5%	2.19	406
A-N416	1	0.205	83.%	2.193	600
A-N256	1	0.019	95.%	2.242	308
A-N084	1	0.029	75.7%	2.312	536
Node633.1	1	0.007	89.%	2.636	1100
A-N086	1	0.022	81.9%	2.818	254
A-N098	1	0.032	57.8%	2.849	412
F-N202	1	0.016	49.7%	3.079	92.5
A-N454	1	0.130	70.4%	3.148	432
A-N294	1	0.020	78.%	3.286	1542
A-N915	1	0.064	54.7%	3.586	842
A-N264	1	0.040	75.%	4.045	510
A-N338	1	0.022	71.%	4.107	600
A-N412	1	0.117	38.%	4.452	600
F-N818	1	0.031	66.3%	4.479	598
A-N326	1	0.024	76.%	4.517	400
A-N308	1	0.023	37.%	4.552	532
Node350	1	0.047	72.%	4.588	886
F-N208	1	0.008	51.8%	4.601	155
A-N456	1	0.159	66.9%	4.663	328
A-N268	1	0.040	75.%	4.71	1143
A-N066	1	0.026	59.9%	4.876	325.9
F-N104	1	0.005	85.6%	5.024	334.2

Name	Subcatchment	Slope	Impervious Percentage %	Area (acres)	Width (ft)
Allen-Fruitdale hydrologic nodes					
F-N804	1	0.059	73.%	5.151	1248
A-N334	1	0.011	93.%	5.257	600
A-N028	1	0.091	65.7%	5.289	658
A-N404	1	0.059	84.%	5.32	632
A-N300	1	0.015	67.8%	5.627	503
A-N234	1	0.011	88.6%	5.809	680
A-N122	1	0.081	78.%	6.199	546
Node633	1	0.005	89.%	6.213	1200
A-N219	1	0.030	82.3%	6.231	884
A-N044	1	0.224	9.1%	6.45	586
F-N138	1	0.052	41.%	6.625	820
F-N030	1	0.015	60.8%	6.72	860
A-N054	1	0.029	64.8%	6.825	652
A-N344	1	0.390	56.%	6.858	700
A-N038	1	0.053	50.9%	6.887	1008
F-N212	1	0.004	50.%	7.016	190.5
F-N018	1	0.006	61.%	7.077	584
A-N124	1	0.085	78.%	7.161	813
A-N288	1	0.021	94.4%	7.161	1232
A-N008	1	0.031	45.4%	7.275	480.4
A-N290	1	0.040	93.5%	7.43	856
A-N320	1	0.022	100.%	7.591	600
A-N926	1	0.131	83.%	7.749	994
F-N932	1	0.238	46.%	7.855	1200
A-N324	1	0.011	68.%	8.885	600
A-N010	1	0.040	95.%	8.952	776
F-N812	1	0.110	54.9%	8.967	952.4
F-N822	1	0.110	25.%	8.978	458
A-N240	1	0.030	98.%	9.039	400
F-N602	1	0.035	73.%	9.184	1254.4
F-N210	1	0.004	90.9%	9.348	188.5
A-N308.1	1	0.190	38.%	10.082	600
A-N090	1	0.017	90.5%	10.091	702
F-N502	1	0.027	61.%	10.2	1240
R-N110	1	0.053	71.3%	10.253	688
F-N136	1	0.014	32.4%	10.326	224
A-N276.1	1	0.040	75.%	10.375	1143
F-N204	1	0.009	28.8%	10.403	240
A-N328	1	0.027	32.%	10.699	600
A-N022	1	0.099	42.5%	10.894	948
F-N132	1	0.016	28.8%	11.529	208.5
A-N108-2	1	0.050	23.9%	11.833	800.6
F-N032	1	0.016	53.9%	12.13	886

Name	Subcatchment	Slope	Impervious Percentage %	Area (acres)	Width (ft)
Allen-Fruitdale hydrologic nodes					
A-N228	1	0.027	73.5%	12.147	1136
A-N938	1	0.003	77.2%	12.203	900
F-N708	1	0.048	74.%	12.288	1200
A-N304	1	0.020	52.2%	12.369	1200
F-N606	1	0.044	83.%	12.516	898
A-N928	1	0.224	32.%	13.066	1244
A-N446	1	0.181	11.4%	13.497	349
A-N914	1	0.067	52.2%	13.685	584
A-N270	1	0.113	78.%	14.07	1100
F-N010	1	0.010	44.6%	14.546	1128
F-N118	1	0.013	33.4%	14.559	211
A-N074	1	0.039	71.7%	14.844	862
A-N250	1	0.031	83.%	15.073	390
A-N076	1	0.047	71.1%	15.315	1200
F-N404	1	0.188	49.%	15.474	1200
A-N024-1	1	0.026	68.3%	15.568	890.4
R-N108	1	0.054	44.7%	15.993	767
F-N008	1	0.025	41.4%	16.293	601
A-N006	1	0.010	64.%	16.663	1200
R-N122	1	0.040	86.%	16.855	1200
F-N712	1	0.038	74.%	16.935	1200
A-N274	1	0.020	98.5%	18.013	1590
Node540	1	0.138	28.4%	18.211	7640.5
A-N052	1	0.022	52.2%	18.329	1081.8
A-N408	1	0.088	65.%	18.66	600
Node355	1	0.050	59.%	18.776	1200
R-N104	1	0.066	32.6%	19.762	1200
A-N282	1	0.023	75.%	20.973	1362
F-N002	1	0.029	54.7%	20.976	114
R-N128	1	0.039	50.8%	21.329	932
A-N452	1	0.117	14.4%	21.679	1183.6
A-N108-2.1	1	0.085	78.%	22.56	813
A-N450	1	0.138	28.4%	24.927	7640.5
A-N262	1	0.017	78.%	24.964	1200
A-N434	1	0.026	83.%	25.357	636
F-N106	1	0.006	58.9%	26.038	591
A-N306.1	1	0.009	86.%	26.824	1135
A-N100	1	0.019	30.8%	27.345	764.3
F-N116	1	0.013	30.5%	27.482	364
R-N120	1	0.027	73.5%	28.326	1136
F-N604	1	0.067	65.%	29.159	1200
A-N912	1	0.129	27.8%	31.227	1134
A-N310	1	0.013	85.5%	34.489	1057

Name	Subcatchment	Slope	Impervious Percentage %	Area (acres)	Width (ft)
Allen-Fruitdale hydrologic nodes					
Node640	1	0.025	40.3%	37.019	1200
F-N402	1	0.040	67.%	38.611	1200
A-N024-2	1	0.014	51.6%	40.275	1200
Node472	1	0.100	28.8%	44.36	2345
F-N038-1	1	0.023	37.5%	46.221	614.2
A-N118	1	0.072	26.7%	46.656	687.8
R-N158	1	0.026	67.9%	46.991	1200
A-N204	1	0.014	85.%	47.884	1200
A-N050	1	0.020	29.8%	47.92	1200
R-N116	1	0.027	54.1%	51.14	1670
A-N064	1	0.027	52.9%	51.415	1200
F-N038-2	1	0.310	34.6%	53.434	1200
F-N816	1	0.111	37.6%	55.39	1200
F-N112	1	0.004	35.7%	60.708	417.5
A-N460	1	0.081	6.8%	71.354	1200
R-N132	1	0.049	56.8%	81.021	4275
F-N918	1	0.100	28.8%	86.204	2345
R-N162	1	0.039	53.4%	99.162	1200
Node488.1	1	0.100	28.8%	110.725	2345
A-N108-1	1	0.126	26.4%	113.969	1412
F-N920.1	1	0.123	10.1%	122.776	5779.1
Node301.1	1	0.123	10.1%	145.014	5779.1
Node318	1	0.254	4.3%	152.841	1398
A-N910	1	0.081	13.7%	202.496	1294
F-N058.1	1	0.072	30.5%	227.26	1601.9
Node308	1	0.123	10.1%	234.014	5779.1
F-N920	1	0.123	2.%	238.233	5779.1
Node505.1	1	0.004	24.1%	310.439	2147
F-N082	1	0.042	17.4%	535.137	5115
A-N114	1	0.063	22.%	603.044	3466.6
A-N132	1	0.087	21.4%	706.438	3976
F-N058.2.1	1	0.123	10.1%	1177.043	5779.1
A-N450	2	0.079	61.9%	0.773	409.6
F-N104	2	0.006	83.7%	0.97	86
Node633	2	0.022	90.%	1.847	600
A-N460	2	0.059	79.8%	3.308	381
A-N270	2	0.113	78.%	3.573	1100
A-N100	2	0.026	60.3%	3.677	212.1
A-N452	2	0.075	72.3%	3.838	499.6
F-N812	2	0.076	60.7%	3.953	337.6
A-N300	2	0.004	61.3%	5.531	972.6
A-N344	2	0.160	86.%	5.787	800
A-N404	2	0.116	79.%	6.469	458.8

Name	Subcatchment	Slope	Impervious Percentage %	Area (acres)	Width (ft)
Allen-Fruitdale hydrologic nodes					
A-N264	2	0.020	78.%	7.383	1542
A-N114	2	0.026	16.3%	7.642	504
A-N402	2	0.079	83.%	7.669	800
F-N602	2	0.023	66.%	7.863	1200
A-N054	2	0.029	64.8%	9.347	652
A-N064	2	0.017	50.6%	13.567	941.4
A-N066	2	0.060	26.9%	13.568	1074.8
A-N050	2	0.03	56.8%	14.305	436.4
A-N052	2	0.039	39.8%	20.114	1105.4
A-N132	2	0.117	14.4%	20.84	1183.6
A-N008	2	0.016	55.4%	36.082	1200
F-N138	2	0.028	71.%	41.684	1200
A-N440	2	0.125	12.3%	66.788	1085.9
F-N920	2	0.123	2.%	111.559	5779.1
A-N124	2	0.081	8.6%	148.035	546
F-N082	2	0.177	16.%	1385.835	3991.4
A-N344	3	0.099	76.%	6.873	600
A-N132	3	0.113	39.6%	9.641	536
A-N132		0	.%		

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Allen-Fruitdale Links																			
A-N124L	A-N124	A-N122	Circular	1.75	0	0	1	0	0	0	0.75	1042.053	1036.899	1047.953	1040.499	688.29	0.013	13.71	17.268
A-N122L	A-N122	A-N120	Circular	1.75	0	0	1	0	0	0	-0.04	1036.899	1036.97	1040.499	1042.188	161.819	0.013	3.32	20.508
A-N120L	A-N120	A-N118	Circular	1.75	0	0	1	0	0	0	1.55	1036.47	1035.598	1042.188	1042.498	56.187	0.013	19.74	20.509
A-N126L	A-N126	A-N122	Circular	1	0	0	1	0	0	0	2.09	1048.869	1036.899	1054.669	1040.499	573.926	0.013	5.15	0
A-N456L	A-N456	A-N454	Circular	1.25	0	0	1	0	0	0	1.87	1064.811	1060.236	1070.611	1066.736	244.225	0.013	8.84	6.476
A-N454L	A-N454	A-N452	Circular	1.25	0	0	1	0	0	0	6.88	1060.236	1018.818	1066.736	1024.418	602.27	0.013	16.94	11.182
A-N452L	A-N452	A-N450	Circular	2	0	0	1	0	0	0	0.53	1018.818	1017.554	1024.418	1020.554	239.573	0.013	16.43	29.16
Link560	A-N450	Node546	Rectangular	5	0	0	1	0	0	9	0.24	1014.593	1014.46	1020.554	1019.46	56	0.022	203.24	123.432
A-N084L	A-N084	A-N082	Circular	1.25	0	0	1	0	0	0	0.54	993.619	992.132	1004.019	1000.432	276.36	0.013	4.74	3.468
A-N082L	A-N082	A-N080	Circular	1.25	0	0	1	0	0	0	2.7	992.132	987.265	1000.432	997.465	180.545	0.013	10.61	3.458
A-N078L	A-N078	A-N076	Circular	1.25	0	0	1	0	0	0	12.64	992.564	968.884	995.564	992.85	187.406	0.013	22.96	3.446
A-N076L	A-N076	A-N074	Natural	0	0	NS_A-N076L	1	0	0	0	0.61	968.44	965.433	992.85	986.04	494.3	0.04	469.94	694.976
A-N096L	A-N096	A-N094	Circular	1.25	0	0	1	0	0	0	-0.97	999.941	1001.268	1002.941	1004.268	136.732	0.013	6.36	0
A-N092L	A-N092	A-N090	Circular	2	0	0	1	0	0	0	0.76	997.495	996.266	1001.995	1000.266	161.454	0.013	19.74	0.056
A-N090L	A-N090	A-N088	Circular	2	0	0	1	0	0	0	0.64	996.266	991.312	1000.266	997.039	768.298	0.013	18.17	13.702
A-N088L	A-N088	A-N086	Rectangular	10	0	0	1	0	0	10	0.5	983.877	983.708	997.039	999.712	33.816	0.013	1488.51	681.766
Link644	A-N446	Node621	Circular	2	0	0	1	0	0	0	1.26	1054.71	1051.7	1067.68	1057.78	238	0.013	25.44	4.323
A-N444L	A-N444	A-N442	Circular	2	0	0	1	0	0	0	10.92	1022.73	1020	1030	1022	25	0.013	74.76	4.217
647.2	A-N442	Node623	0	0	0	0	0	0	0	0	0	0	0	1022	1021	0	0	0	0.79
647.1	A-N442	Node623	0	0	0	0	0	0	0	0	0	0	0	1022	1021	0	0	6.3	5.144
Link552	A-N440	Node539	Natural	2.8	0	6bot12top2.8deepConc	1	0	0	0	0.11	1016	1015.75	1020.8	1019.21	234	0.017	105.5	117.091
A-N066L	A-N066	A-N064	Trapezoidal	1.5	0	0	1	1.5	1.5	0	2.2	973.548	957.635	975.048	970.693	723.343	0.03	18.08	15.291
A-N064L	A-N064	A-N062	Natural	0	0	NS_A-N064L	1	0	0	0	0.43	953.893	951.761	970.693	968.57	500	0.04	10891.8	747.742
A-N054L	A-N054	A-N054.1	Circular	1.5	0	0	1	0	0	0	0.63	956.24	952.64	965.44	958.56	572.6	0.013	8.33	12.568
A-N052L	A-N052	A-N050	Circular	2	0	0	1	0	0	0	1.62	951.699	941.906	956.75	956.606	606.065	0.013	28.76	33.062
A-N056L	A-N056	A-N052	Circular	2.67	0	0	1	0	0	0	0.69	953.574	951.699	959.32	956.75	271.908	0.013	40.59	26.825
A-N058L	A-N058	A-N058.1	Circular	1	0	0	1	0	0	0	1.68	962.78	955.72	968.58	961.48	420.06	0.013	4.62	1.149
A-N050L	A-N050	A-N048	Rectangular	10	0	0	1	0	0	10	0.27	941.906	941.778	956.606	953.614	47.491	0.013	1093.12	794.388
A-N044L	Node37	A-N042	Circular	1	0	0	1	0	0	0	9.16	1006.742	981.591	1009.742	988.891	274.692	0.013	10.78	0
A-N042L	A-N042	A-N040	Circular	1	0	0	1	0	0	0	2.82	981.591	975.276	988.891	982.426	223.807	0.013	5.98	0
A-N040L	A-N040	A-N038	Circular	1.25	0	0	1	0	0	0	0.59	975.276	972.551	982.426	982.651	458.787	0.013	4.98	0.972
A-N038L	A-N038	A-N036	Circular	1.25	0	0	1	0	0	0	0.57	972.551	970.866	982.651	979.066	294.83	0.013	4.88	7.811
A-N036L	A-N036	A-N032	Circular	1.25	0	0	1	0	0	0	1.71	970.866	963.529	979.066	968.729	428.674	0.013	8.45	7.558
A-N032L	A-N032	A-N028	Circular	2.5	0	0	1	0	0	0	0	962.279	962.279	968.729	968.817	32.937	0.013	1.3	46.233
A-N028L	A-N028	A-N026	Circular	2.5	0	0	1	0	0	0	4.25	962.279	934.628	968.817	950.27	651.347	0.013	84.51	55.152
A-N026L	A-N026	A-N026.1	Natural	0	0	NS_A-N026L	1	0	0	0	0.17	934.63	934.29	950.27	947.66	194.8	0.014	2841.74	833.626
A-N030L	A-N030	A-N028	Circular	2.5	0	0	1	0	0	0	0.2	962.716	962.279	969.266	968.817	219.905	0.013	18.28	2.034
A-N034L	A-N034	A-N032	Circular	2.5	0	0	1	0	0	0	0.96	963.421	962.279	969.221	968.729	119.452	0.013	40.11	38.745
A-N012L	A-N012	A-N010	Circular	1	0	0	1	0	0	0	3.44	937.302	925.275	940.702	940.675	349.414	0.013	6.61	3.346
A-N010L	A-N010	A-N008	Circular	4	0	0	1	0	0	0	3.16	925.275	914.309	940.675	943	346.967	0.013	255.37	17.145
Box#1	A-N008	A-N006	Rectangular	6	0	0	1	0	0	7	2.2	914.309	897.736	943	938.11	753.335	0.013	980.35	484.507

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Allen-Fruitdale Links																			
Box#2	A-N008	A-N006	Rectangular	6	0	0	1	0	0	7	2.2	914.309	897.736	943	938.11	753.335	0.013	980.35	484.507
A-N308L	A-N308	A-N308.3	Trapezoidal	3.5	0	0	1	1.25	1.25	6	0.82	953.73	950.36	957.23	953.86	412.68	0.04	200.58	43.356
A-N314L	A-N314	A-N314.1	Circular	2.25	0	0	1	0	0	0	1.93	960.32	956.6	967.62	964.4	192.28	0.013	43.08	40.945
A-N312L	A-N312	A-N310	Circular	1	0	0	1	0	0	0	0.8	954.518	946.774	960.42	949.774	962.929	0.013	3.2	3.215
Link520	A-N312	A-N308	Circular	2.25	0	0	1	0	0	0	0.04	954.018	954	960.42	957.23	47	0.013	6.06	40.417
Link410	A-N310	A-N306	Circular	4	0	0	1	0	0	0	0.08	943.87	943.4	949.774	950.31	565	0.013	41.43	52.496
Link625	Node40	A-N306.1	Circular	3	0	0	1	0	0	0	1.3	943.85	932.61	951.61	948.02	864.68	0.013	76.05	27.596
A-N338L	A-N338	A-N336	Circular	1	0	0	1	0	0	0	0.68	971.324	966.984	975.224	969.984	634.714	0.013	2.95	3.79
A-N434L	A-N434	A-N432	Circular	1.5	0	0	1	0	0	0	0.91	985.6	978.93	989.4	989.451	734.321	0.013	10.01	10.811
A-N334L	A-N334	A-N332	Circular	1.25	0	0	1	0	0	0	1.17	965.271	957.376	968.87	961.126	676.407	0.013	6.98	8.011
A-N438L.1	A-N334	A-N314	Circular	2.25	0	0	1	1.5	1.5	0	0	963.52	963.52	968.87	967.62	118	0.013	0.98	39.934
A-N332L	A-N332	A-N330	Circular	1.5	0	0	1	0	0	0	0.95	957.376	954.521	961.126	959.174	301.85	0.013	10.22	8.03
A-N324L	A-N324	A-N323	Circular	1.75	0	0	1	0	0	0	2	952.695	949.426	958.45	958.009	163.443	0.013	22.41	20.939
A-N323L	A-N323	A-N322	Circular	2.5	0	0	1	0	0	0	1	949.426	948.559	958.009	957.84	86.718	0.013	41.01	20.804
A-N322L	A-N322	A-N320	Circular	2.5	0	0	1	0	0	0	0.39	948.56	947.52	957.84	951.65	265.74	0.013	25.66	20.669
Link401	A-N320	A-N320.1	Rectangular	4	0	0	1	0	0	6	0.13	947.32	946.88	951.65	951.98	341	0.024	60.28	39.557
A-N344L	Node673	A-N342	Circular	1	0	0	1	0	0	0	3.59	968.304	952.229	971.304	956.529	448.141	0.013	6.75	0
A-N342L	A-N342	A-N340	Circular	1	0	0	1	0	0	0	2.37	952.229	947.66	956.529	951.836	192.8	0.013	5.48	2.018
A-N340L	A-N340	A-N320	Rectangular	4	0	0	1	1	1	6	0.14	947.66	947.322	951.836	951.65	239.83	0.013	116.3	-28.136
A-N326L	A-N326	A-N326.1	Circular	0.833	0	0	1	0	0	0	2.07	958.4	955.47	963.56	960.94	141.43	0.013	3.15	3.493
A-N328L	A-N328	A-N326	Circular	0.833	0	0	1	0	0	0	1.5	962.258	958.405	967.458	963.56	256.841	0.013	2.68	2.738
A-N408L	A-N408	A-N406	Circular	1.25	0	0	1	0	0	0	0.85	978.539	975.845	984.44	978.845	315.182	0.013	0	0
Link657	A-N408	A-N408.3	Circular	2.25	0	0	1	0	0	0	2.52	978.539	977	984.44	985	61.07	0.013	49.16	30.194
A-N410L	A-N410	A-N408	Circular	1.25	0	0	1	0	0	0	1.21	981.379	978.539	992.279	984.44	235.569	0.013	7.09	7.835
A-N414L	A-N414	A-N410	Circular	1.25	0	0	1	0	0	0	1.02	983.171	981.379	989.546	992.279	175.515	0.013	6.53	3.349
A-N416L	A-N416	A-N414	Circular	1	0	0	1	0	0	0	5.76	1014.675	983.171	1023.225	989.546	546.587	0.013	8.55	3.398
A-N402L	A-N402	A-N400	Circular	1.25	0	0	1	0	0	0	0.62	973.654	973	976.654	976.016	106.283	0.013	5.07	8.468
A-N400L	A-N400	A-N344	Circular	1.25	0	0	1	0	0	0	0.73	973	968.304	976.016	971.3	643.73	0.013	5.52	7.078
A-N404L	A-N404	A-N402	Circular	1	0	0	1	0	0	0	3.08	1001.242	973.654	1007.692	976.654	896.171	0.013	6.25	6.799
A-N418L	A-N418	A-N408	Circular	1.5	0	0	1	0	0	0	3.59	995.114	978.539	998.014	984.44	461.477	0.013	19.91	2.291
A-N206L	A-N206	A-N204	Circular	3	0	0	1	0	0	0	1.09	939.83	926.945	942.83	929.945	1180.361	0.013	69.69	0
A-N210L	A-N210	A-N208	Circular	1.25	0	0	1	0	0	0	0.63	938.111	933.213	941.111	936.213	771.657	0.013	5.15	0
A-N212L	A-N212	A-N208	Circular	1.25	0	0	1	0	0	0	0.51	937.193	933.213	940.993	936.213	776.304	0.013	4.63	0
A-N208L	A-N208	A-N204	Circular	1.25	0	0	1	0	0	0	1.28	933.213	926.945	936.213	929.945	489.778	0.013	7.31	0
A-N204L	A-N204	A-N216	Circular	2.5	0	0	1	0	0	0	5.31	926.945	895.011	929.945	902.361	601.71	0.013	94.49	52.408
A-N216L	A-N216	R-N110	Circular	1	0	0	1	0	0	0	2.66	895.011	878.361	902.361	906.15	625.193	0.013	5.81	7.571
A-N218L	A-N218	A-N216	Circular	2	0	0	1	0	0	0	1.21	904.398	895.011	913.898	902.361	774.471	0.013	24.91	9.249
A-N219L	A-N219	A-N218	Circular	1.5	0	0	1	0	0	0	4	919.436	904.398	925.036	913.898	376.322	0.013	21	9.369
A-N228L	A-N228	A-N226	Circular	1.5	0	0	1	0	0	0	0.66	911.848	909.414	919.098	915.364	370.981	0.013	8.51	15.906
A-N226L	A-N226	A-N224	Circular	2	0	0	1	0	0	0	0.5	909.414	907.271	915.364	914.67	428.51	0.013	16	15.885
A-N224L	A-N224	A-N224.1	Circular	3	0	0	1	0	0	0	0.99	907.27	905.81	914.67	913.62	147.52	0.013	66.35	24.021
A-N222L	A-N222	R-N120	Circular	2	0	0	1	0	0	0	3.1	903.094	882.013	911.65	918.92	680.692	0.013	39.81	23.684

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Allen-Fruitdale Links																			
A-N230L	A-N230	A-N224	Circular	2	0	0	1	0	0	0	0.53	909.305	907.271	916.055	914.67	383.017	0.013	16.49	8.451
A-N234L	A-N234	A-N230	Circular	2	0	0	1	0	0	0	3.29	929.844	909.305	936.644	916.055	623.788	0.013	41.05	8.574
A-N232L	A-N232	A-N230	Circular	1.5	0	0	1	0	0	0	1.63	913.773	909.305	916.773	916.055	274.632	0.013	13.4	0
A-N244L	A-N244	A-N242	Circular	1.25	0	0	1	0	0	0	1.88	935.881	910.479	941.281	915.879	1351.883	0.013	8.85	1.847
A-N242L	A-N242	A-N240	Circular	1.5	0	0	1	0	0	0	4.09	910.479	894	915.879	910	402.739	0.013	21.25	1.831
A-N240L	A-N240	R-N124	Circular	1.5	0	0	1	0	0	0	4.76	894	885.981	910	923.26	168.395	0.013	22.92	14.78
A-N252L	A-N252	A-N250	Circular	2.5	0	0	1	0	0	0	2.41	907.658	894	914.679	910	566.111	0.013	63.71	3.403
A-N250L	A-N250	R-N124	Circular	2	0	0	1	0	0	0	3.87	894	885.981	910	923.26	207.225	0.013	44.5	22.283
A-N254L	A-N254	A-N252	Circular	1	0	0	1	0	0	0	2	917.221	907.658	921.321	914.679	478.166	0.013	5.04	3.441
A-N256L	A-N256	A-N254	Circular	1	0	0	1	0	0	0	2	929.122	917.221	932.122	921.321	594.656	0.013	5.04	3.476
A-N260L	A-N260	R-N126	Circular	3.5	0	0	1	0	0	0	4.96	894	886.318	910	924.12	154.941	0.013	224.02	98.025
A-N262L	A-N262	A-N260	Circular	3.5	0	0	1	0	0	0	1.43	904.272	894	919.87	910	717.484	0.013	120.38	98.11
A-N264L	A-N264	A-N262	Circular	1.25	0	0	1	0	0	0	1.45	919.92	904.272	924.02	919.87	1077.758	0.013	7.78	8.519
A-N266L	A-N266	A-N266.1	Circular	2	0	0	1	0	0	0	0.69	908.04	906.38	916.9	918.21	239.98	0.013	18.82	44.356
A-N268L	A-N268	A-N266	Circular	2	0	0	1	0	0	0	0.25	909.043	908.04	925.368	916.9	401.244	0.013	11.31	16.101
A-N274L	A-N274	Node607	Circular	1.5	0	0	1	0	0	0	0.5	926.716	922.662	930.307	936.81	810.813	0.013	7.43	10.481
A-N270L	A-N270	A-N268	Circular	1	0	0	1	0	0	0	2	922.662	915.315	936.807	925.368	367.349	0.013	5.04	9.316
A-N280L	A-N280	A-N268	Circular	2	0	0	1	0	0	0	0.25	909.538	909.043	927.583	925.368	198.045	0.013	11.31	-0.604
A-N276L	A-N276	A-N276.1	Circular	1.5	0	0	1	0	0	0	1.08	912.38	909.538	922.73	927.58	263.79	0.013	10.9	-2.181
A-N278L	A-N278	A-N276	Circular	1.5	0	0	1	0	0	0	0.55	914.973	912.379	924.373	922.73	475.803	0.013	7.76	-2.052
A-N282L	A-N282	A-N282.1	Circular	1.25	0	0	1	0	0	0	0.5	913.69	913.46	926.04	926.13	46	0.013	4.57	20.547
A-N284L	A-N284	A-N282	Circular	1.25	0	0	1	0	0	0	-0.01	913.663	913.69	920.363	926.04	381.893	0.013	0.54	-7.827
A-N286L	A-N286	A-N282	Circular	2	0	0	1	0	0	0	0.47	915.886	913.69	926.536	926.04	466.053	0.013	15.53	14.229
A-N292L	A-N292	A-N286	Circular	1.75	0	0	1	0	0	0	0.5	917.864	915.886	926.771	926.536	395.697	0.013	11.2	6.842
A-N296L	A-N296	A-N292	Circular	1.75	0	0	1	0	0	0	0.5	918.204	917.864	925.88	926.771	67.946	0.013	11.21	4.626
A-N298L	A-N298	A-N296	Circular	1.25	0	0	1	0	0	0	0.21	919.383	918.204	924.383	925.88	568.741	0.013	2.94	4.605
A-N288L	A-N288	A-N286	Circular	1.5	0	0	1	0	0	0	0.66	920.014	915.886	928.414	926.536	625.435	0.013	8.53	10.317
A-N290L	A-N290	A-N288	Circular	1	0	0	1	0	0	0	4.2	935.741	920.014	938.741	928.414	374.306	0.013	7.3	5.994
A-N294L	A-N294	A-N292	Circular	1	0	0	1	0	0	0	0.2	919.298	917.864	923.378	926.771	714.166	0.013	1.6	3.068
F-N102L	F-N102	R-N138	Natural	3.5	0	10bot16top3.5deepNat	1	0	0	0	2.97	902.039	887.471	909	925.64	491.019	0.04	517.17	52.382
F-N104L	F-N104	F-N102	Circular	3	0	0	1	0	0	0	3.31	915.907	902.039	924	909	418.785	0.024	65.74	52.202
F-N106L	F-N106	F-N104	Circular	3	0	0	1	0	0	0	0.36	916.4	915.907	930	924	136.503	0.013	40.08	45.348
F-N108L	F-N108	F-N106	Circular	2	0	0	1	0	0	0	0.57	919.187	916.4	925.987	930	488.274	0.013	17.09	28.309
F-N110L	F-N110	F-N108	Circular	2.5	0	0	1	0	0	0	0.19	920.089	919.187	926.889	925.987	468.701	0.013	17.99	28.308
F-N112L	F-N112	F-N110	Circular	2.5	0	0	1	0	0	0	0.34	921.238	920.089	929.838	926.889	336.832	0.013	23.96	34.871
F-N114L	F-N114	F-N112	Circular	2.5	0	0	1	0	0	0	0.52	923.55	921.238	929.9	929.838	443.491	0.013	29.62	16.863
F-N116L	F-N116	F-N114	Circular	2.5	0	0	1	0	0	0	0.37	924.45	923.55	933.9	929.9	241.981	0.013	25.01	27.015
F-N120L	F-N120	F-N120.2	Circular	2	0	0	1	1.5	1.5	0	0.44	929.55	928.85	934.17	933.26	159	0.013	15.01	-2.25
Link687	F-N124	Node661	Circular	1.25	0	0	1	0	0	0	2.37	946.4	942	952.46	948.1	186	0.013	9.94	1.173
F-N130L	F-N130	F-N116	Circular	2	0	0	1	0	0	0	0.19	925.323	924.45	935.02	933.9	457.009	0.013	9.89	8.367
F-N132L	F-N132	F-N132.1	Circular	2	0	0	1	0	0	0	0.88	936.43	932.93	938.53	937.42	400	0.013	21.16	8.394
F-N136L	F-N136	F-N136.1	Trapezoidal	1.5	0	0	1	1.5	1.5	0	0.6	940.49	938.45	943.49	941.45	340.83	0.03	9.43	4.258

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Allen-Fruitdale Links																			
F-N030L	F-N030	F-N028	Circular	1.25	0	0	1	0	0	0	0.3	941.351	940.577	946.651	946.18	260.934	0.013	3.52	7.605
F-N028L	F-N028	F-N028.1	Circular	1.75	0	0	1	0	0	0	0.55	940.58	938.69	946.18	945.12	346.02	0.013	11.71	7.472
F-N026L	F-N026	F-N024	Circular	2	0	0	1	0	0	0	0.5	936.827	936.343	944.08	945.768	96.723	0.013	16	7.256
F-N024L	F-N024	F-N022	Natural	0	0	NS_F-N024L	1	0	0	0	1.38	928.955	922.063	945.768	943.5	500	0	19068.39	929.595
F-N008L	F-N008	F-N006	Circular	8.5	0	0	1	0	0	0	1	915.729	914.779	932.829	932.401	94.991	0.013	1072.17	945.6
F-N010L	F-N010	F-N008	Circular	1.5	0	0	1	0	0	0	4.26	931.198	915.729	935.348	932.829	362.713	0.013	21.69	20.064
F-N012L	F-N012	F-N010	Circular	1.5	0	0	1	0	0	0	0.94	932.591	931.198	939.291	935.348	148.843	0.013	10.16	8.218
F-N016L	F-N016	F-N014	Circular	1.5	0	0	1	0	0	0	1.36	937.249	933.714	940.249	939.014	260.547	0.013	12.24	0.522
F-N014L	F-N014	F-N012	Circular	1.5	0	0	1	0	0	0	0.25	933.714	932.591	939.014	939.291	444.876	0.013	5.28	8.556
F-N018L	F-N018	F-N014	Circular	1.5	0	0	1	0	0	0	2.8	937.185	933.714	940.185	939.014	124.129	0.013	17.57	7.388
F-N210L	F-N210	F-N210.1	Circular	2	0	0	1	0	0	0	0.2	926.1	925.5	929.2	931	300.2	0.013	10.11	8.349
F-N212L	F-N212	F-N208	Circular	1.5	0	0	1	0	0	0	0.17	927.228	926.229	930.228	930.48	582.461	0.013	4.35	4.349
F-N208L	F-N208	F-N206	Circular	2	0	0	1	0	0	0	0.12	925.25	925	930.48	929.5	210.216	0.013	7.8	15.932
F-N204L	F-N204	F-N202	Circular	2	0	0	1	0	0	0	0.82	917.4	915.32	925.34	919.162	255.072	0.013	20.43	20.062
F-N202L	F-N202	R-N142	Circular	2	0	0	1	0	0	0	7.01	915.32	892.156	919.162	927.149	330.61	0.013	59.88	22.196
F-N206L	F-N206	F-N206.1	Trapezoidal	1	0	0	1	0.75	0.75	1.5	0.71	925	921.8	929.5	925	449.46	0.04	4.81	15.844
F-N138L	Node41	F-N136	Natural	0.5	0	35ft.Street	1	0	0	0	1.19	949.43	940.486	956.43	943.49	754.102	0.013	109.43	0
F-N804L	F-N804	Node350	Circular	2	0	0	1	0	0	0	4.48	972.86	951.57	977.51	958.36	475.111	0.013	47.89	7.652
F-N036L	F-N036	F-N034	Circular	1	0	0	1	0	0	0	2.52	943.41	939.746	946.41	948.82	145.569	0.013	5.65	2.713
F-N034L	F-N034	F-N032	Natural	0	0	NS_F-N034L	1	0	0	0	0.18	938.718	938.085	948.82	948.19	354.6	0	7362.35	924.106
F-N712L	F-N712	F-N710	Circular	2	0	0	1	0	0	0	2.5	985.201	976.684	987.301	978.684	340.568	0.013	35.78	22.659
F-N710L	F-N710	F-N708	Trapezoidal	1.5	0	0	1	1.5	1.5	0	1.33	976.684	972.266	978.684	974.066	331.732	0.03	14.07	22.357
F-N708L	F-N708	F-N706	Trapezoidal	1.5	0	0	1	1.5	1.5	0	2.63	972.266	955.778	974.066	961.478	626.532	0.03	19.78	37.561
F-N706L	F-N706	F-N704	Circular	2.5	0	0	1	1.5	1.5	0	0.7	955.778	954.364	961.478	959.664	202.653	0.013	34.26	36.808
F-N704L	F-N704	Node355	Circular	2.5	0	0	1	1.5	1.5	0	1.37	954.364	951.31	959.664	955.41	223.508	0.013	47.95	36.42
F-N606L	F-N606	F-N604	Circular	1.5	0	0	1	0	0	0	1.86	968.276	962.541	974.476	966.791	308.281	0.013	14.33	15.7
F-N604L	F-N604	F-N602	Circular	1.5	0	0	1	0	0	0	1.85	962.541	951.708	966.791	957.14	586.242	0.013	14.28	16.885
F-N602L	F-N602	F-N502	Natural	4.2	0	6bot12top4.2deep	1	1	1	8	0.26	950.54	949.72	957.14	953.93	321	0.04	124.23	74.81
F-N506L	F-N506	F-N504	Circular	1.5	0	0	1	0	0	0	1.94	959.4	951.48	964.4	956.6	409.079	0.013	14.62	0
Link366	F-N502	Node362	Natural	4.2	0	6bot12top4.2deep	1	0	0	0	-0.14	949.72	949.99	953.93	954.19	192	0.04	92.18	78.137
F-N404L	F-N404	F-N402	Circular	1.25	0	0	1	0	0	0	3.84	956.069	949.24	958.269	953.866	177.925	0.013	12.66	11.145
Link374	F-N402	Node369	Natural	3.2	0	10bot22top3.2deepNat	1	0	0	0	-0.15	949.24	949.33	953.866	953.74	59	0.04	124.5	91.033
Link416	A-N300	Node409	Natural	4.4	0	7bot13top4.4deepNat	1	0	0	0	-0.97	943.84	945.64	951.54	950.48	186	0.04	295.63	61.123
A-N302L	A-N302	A-N300	Circular	1	0	0	1	0	0	0	1.4	947.495	943.84	952.445	951.54	261.711	0.013	4.21	4.374
A-N304L	A-N304	A-N302	Circular	1	0	0	1	0	0	0	0.96	952.354	947.495	958.604	952.445	506.408	0.013	3.49	4.374
A-N432L	A-N432	A-N436	Circular	1.5	0	0	1	0	0	0	0.21	978.93	978.03	989.451	983	419.115	0.013	4.87	10.811
A-N430L	A-N430	A-N432	Circular	1.5	0	0	1	0	0	0	0.3	980.305	978.93	990.155	989.451	463.538	0.013	5.72	1.054
Link468	F-N812	Node457	Rectangular	6	0	0	1	0	0	15	-0.1	1025.96	1025.999	1032.262	1032	38	0.022	323.7	42.923
F-N814L	F-N814	F-N812	Circular	2	0	0	1	0	0	0	2.41	1033.855	1026.68	1042.31	1032.262	297.273	0.013	35.15	45.453
F-N818L	F-N818	F-N818.1	Circular	1.25	0	0	1	0	0	0	5.5	1060.04	1044.14	1065.34	1051.35	289.28	0.013	15.14	6.253
F-N824L	F-N824	F-N822	Circular	1	0	0	1	0	0	0	34.29	1104.04	1028.061	1108.54	1031.861	221.566	0.013	20.86	3.129
Link457	F-N822	Node448	Natural	3.2	0	8bot18top3.2deepRock	1	0	0	0	0.71	1028.061	1027.2	1031.861	1030.4	122	0.045	188.85	15.301

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Allen-Fruitdale Links																			
A-N464L	A-N464	A-N462	Circular	1	0	0	1	0	0	0	5.2	1082.414	1065.192	1086.414	1070.592	331.079	0.013	8.13	0
A-N462L	A-N462	A-N460	Circular	1	0	0	1	0	0	0	5.65	1065.192	1041.995	1070.592	1045.595	410.303	0.013	8.47	0
A-N460L	A-N460	A-N458	Circular	1	0	0	1	0	0	0	6.71	1041.995	1035.025	1045.595	1036.525	103.926	0.013	9.23	11.498
Link674	A-N460	Node649	Trapezoidal	1.5	0	0	1	1	1	1	1.53	1041.995	1037	1045.595	1042	325.96	0.04	13.79	19.589
F-N134L	F-N134	F-N134.1	Circular	1.75	0	0	1	1.5	1.5	0	0.54	937.83	937.37	940.83	940.07	85.43	0.013	11.63	4.233
F-N504L	F-N504	F-N502	Circular	1.5	0	0	1	0	0	0	1.2	951.48	949.72	956.6	953.93	146.514	0.013	11.51	-0.087
F-N118L	F-N118	F-N116	Circular	2	0	0	1	0	0	0	0.52	925.65	925.45	934.03	933.9	38.708	0.013	16.26	8.112
A-N412L	A-N412	A-N410	Circular	1.75	0	0	1	0	0	0	13.27	1004.723	981.379	1007.723	992.279	175.968	0.013	57.71	4.536
A-N336L	A-N336	A-N334	Circular	1	0	0	1	0	0	0	0.9	966.984	965.271	969.984	968.87	190.273	0.013	3.38	4.043
A-N330L	A-N330	A-N324	Circular	1.75	0	0	1	0	0	0	1	954.521	952.695	959.174	958.45	182.632	0.013	15.84	7.958
A-N272L	A-N272	Node607	Circular	1.25	0	0	1	0	0	0	2.19	936.686	922.662	939.686	936.81	640.895	0.013	9.56	2.709
F-N816L	F-N816	F-N814	Circular	2	0	0	1	0	0	0	5.44	1045.858	1033.855	1048.858	1042.31	220.47	0.013	52.78	39.446
A-N406L	A-N406	A-N402	Circular	1.25	0	0	1	0	0	0	1.8	975.845	973.654	978.845	976.654	121.455	0.013	8.68	-0.32
A-N080L	A-N080	A-N078	Circular	1.25	0	0	1	0	0	0	-1.85	987.265	992.564	997.465	995.564	286.834	0.013	8.78	3.45
A-N094L	A-N094	A-N092	Circular	1.5	0	0	1	0	0	0	0.57	1001.268	997.495	1004.268	1001.995	658.748	0.013	7.95	0
F-N056L	F-N056	F-N054	Natural	0	0	NS_F-N056L	1	0	0	0	3.94	1023	1003.281	1045.53	1029.84	500	0.04	63955.64	731.545
video714	F-N056	Node440	0	0	0	0	0	0	0	0	0	0	0	1045.53	1032.5	0	0	0	-178.249
F-N054L	F-N054	F-N054.1	Natural	0	0	NS_F-N054L	1	0	0	0	1.8	1003.28	998.47	1029.84	1029.67	267	0	168300.33	731.822
F-N052L	F-N052	F-N050	Natural	0	0	NS_F-N052L	1	0	0	0	2.19	994.273	983.328	1029.52	1018.54	500	0	471888.63	846.014
F-N050L	F-N050	F-N048	Natural	0	0	NS_F-N050L	1	0	0	0	2.42	983.328	971.211	1018.54	1013.233	500	0	456311.35	865.845
F-N048L	F-N048	F-N046	Natural	0	0	NS_F-N048L	1	0	0	0	1.1	971.211	965.729	1013.233	1007.74	500	0	491528.65	861.467
F-N046L	F-N046	F-N044	Natural	0	0	NS_F-N046L	1	0	0	0	0.95	965.729	963.3	1007.74	998.78	254.9	0.04	235030.78	855.963
F-N044L	F-N044	F-N042	Rectangular	4.5	0	0	1	0	0	8	0.3	963.3	963.017	998.78	980.32	94.196	0.013	287.63	851.68
F-N006L	F-N006	F-N004	Natural	0	0	NS_F-N006L	1	0	0	0	1.16	902.895	898.842	932.401	933.65	350	0	15697.97	945.382
F-N004L	F-N004	F-N002	Natural	0	0	NS_F-N004L	1	0	0	0	0.82	898.842	895.429	933.65	933.75	416.1	0	22341.99	944.016
F-N002L	F-N002	R-N156	Natural	0	0	NS_F-N002L	1	0	0	0	0.29	895.429	894.695	933.75	931.93	251.4	0	252022.21	2009.097
F-N022L	F-N022	F-N020	Natural	0	0	NS_F-N022L	1	0	0	0	0.7	922.063	918.563	943.5	939.97	500	0	31811.49	929.038
F-N020L	F-N020	F-N008	Natural	0	0	NS_F-N020L	1	0	0	0	1.92	918.563	915.729	939.97	932.829	147.8	0	18400.56	929.171
F-N032L	F-N032	F-N024	Rectangular	5	0	0	1	0	0	8	1	938.085	937.494	948.19	945.768	59.125	0.013	609.21	927.289
F-N042L	F-N042	F-N040	Natural	0	0	NS_F-N042L	1	0	0	0	4.45	963.017	951.897	980.32	995.9	250	0.04	88167.66	851.854
F-N040L	F-N040	F-N038-1	Natural	0	0	NS_F-N040L	1	0	0	0	1.52	951.897	948.03	995.9	992.03	254.5	0.04	574024.07	849.878
F-N038L	F-N038-1	F-N034	Natural	0	0	NS_F-N038L	1	0	0	0	1.92	948.03	938.718	992.03	948.82	484.9	0.04	7607.91	934.178
F-N068L	F-N068	F-N066	Natural	0	0	NS_F-N068L	1	0	0	0	3.77	1061.009	1045.937	1072.62	1057.55	400	0.04	47304.58	487.707
F-N066L	F-N066	F-N064	Natural	0	0	NS_F-N066L	1	0	0	0	1.18	1045.937	1041.219	1057.55	1062.13	400	0	5802.75	488.815
F-N064L	F-N064	F-N062	Natural	0	0	NS_F-N064L	1	0	0	0	2.32	1041.219	1031.956	1062.13	1055.239	400	0	189278.27	484.9
F-N062L	F-N062	F-N060	Natural	0	0	NS_F-N062L	1	0	0	0	1.21	1031.956	1027.121	1055.239	1050.33	400	0	88368.86	482.759
F-N060L	F-N060	F-N058.1	Natural	0	0	NS_F-N060L	1	0	0	0	2.69	1027.121	1025.22	1050.33	1044.48	70.6	0.4	38311.78	484.557
F-N058L	F-N058.1	F-N056	Rectangular	5.5	0	0	1	0	0	10	1	1025.22	1024.919	1044.48	1045.53	30.169	0.013	920.33	568.975
F-N070L	F-N070	F-N068	Rectangular	5.5	0	0	1	0	0	10	0.2	1061.098	1061.009	1071.098	1072.62	44.249	0.013	413.22	486.242
F-N072L	F-N072	F-N070	Natural	0	0	NS_F-N072L	1	0	0	0	1.94	1067.99	1061.098	1078.265	1071.098	354.5	0.04	10174.7	485.193
F-N082L	F-N082	F-N080	Natural	0	0	NS_F-N082L	1	0	0	0	0.89	1083.49	1079.928	1099.927	1096.34	400	0.014	22370.43	511.646
F-N080L	F-N080	F-N078	Natural	0	0	NS_F-N080L	1	0	0	0	2.02	1079.928	1071.868	1096.34	1086.987	400	0.014	38163.14	494.893

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Allen-Fruitdale Links																			
F-N078L	F-N078	F-N076	Natural	0	0	NS_F-N078L	1	0	0	0	0.76	1071.868	1068.832	1086.987	1083.94	400	0	34757.95	495.702
F-N076L	F-N076	F-N074	Natural	0	0	NS_F-N076L	1	0	0	0	0.3	1068.832	1068.265	1083.94	1082.78	187	0	20751	489.003
F-N074L	F-N074	F-N072	Rectangular	10	0	0	1	0	0	5.5	1.3	1068.265	1067.99	1082.78	1078.265	21.158	0.013	1050.43	485.252
A-N004L	A-N004	R-N104	Natural	0	0	NS_A-N004L	1	0	0	0	1.2	885.455	875.401	933.823	932.241	836.3	0.04	120776.05	974.141
A-N006L	A-N006	A-N004	Natural	0	0	NS_A-N006L	1	0	0	0	1.19	891.205	885.455	938.11	933.823	485	0.014	111964.19	975.867
A-N014L	A-N014	A-N008	Natural	0	0	NS_A-N014L	1	0	0	0	0.44	916.782	914.309	943.59	943	563.3	0.014	65065.34	901.931
A-N016L	A-N016	A-N014	Natural	0	0	NS_A-N016L	1	0	0	0	0.61	919.799	916.782	946.613	943.59	494.4	0.04	66571.54	901.501
A-N018L	A-N018	A-N016	Natural	0	0	NS_A-N018L	1	0	0	0	1.38	926.724	919.799	943.375	946.613	501.9	0.04	45406.2	906.871
A-N020L	A-N020	A-N018	Natural	0	0	NS_A-N020L	1	0	0	0	0.9	931.205	926.724	947.856	943.375	497.8	0.04	20970.64	910.814
A-N022L	Node39	A-N020	Rectangular	10	0	0	1	0	0	10	3.5	933.343	931.205	950	947.856	61.075	0.013	3939.5	911.427
A-N024L	A-N024-1	Node39	Natural	0	0	NS_A-N024L	1	0	0	0	1	934.153	933.343	946.55	950	81	0.014	8121.08	911.376
A-N046L	A-N046	A-N026	Natural	0	0	NS_A-N046L	1	0	0	0	1.14	938.525	934.628	950.125	950.27	341.4	0.014	6405.85	791.205
A-N048L	A-N048	A-N046	Natural	0	0	NS_A-N048L	1	0	0	0	0.95	941.778	938.525	953.614	950.125	342.1	0.04	3759.74	793.679
A-N060L	A-N060	A-N050	Natural	0	0	NS_A-N060L	1	0	0	0	0.95	947.524	941.906	962.227	956.606	588.6	0.04	30578.99	743.253
A-N062L	A-N062	A-N060	Natural	0	0	NS_A-N062L	1	0	0	0	0.86	951.761	947.524	968.57	962.227	492.6	0.04	7824.84	746.856
A-N068L	A-N068	A-N064	Natural	0	0	NS_A-N068L	1	0	0	0	1.9	959.353	953.893	979.26	970.693	287.5	0.04	5867.92	702.145
A-N070L	A-N070	A-N068	Natural	0	0	NS_A-N070L	1	0	0	0	0.16	960.182	959.353	980.082	979.26	503	0.04	4448.53	704.532
A-N074L	A-N074	A-N072	Natural	0	0	NS_A-N074L	1	0	0	0	-0.5	965.433	966.56	986.04	986.139	226.1	0.014	8564.9	706.64
A-N086L	A-N086	A-N076	Natural	0	0	NS_A-N086L	1	0	0	0	1.1	972.602	968.44	999.712	992.85	376.9	0.04	22168.92	683.678
A-N098L	A-N098	A-N088	Rectangular	10	0	0	1	0	0	10	0.5	984.039	983.877	999.5	997.039	32.345	0.013	1490.13	671.949
A-N100L	A-N100	A-N098	Natural	0	0	NS_A-N100L	1	0	0	0	1.03	988.359	984.039	1004.27	999.5	419.7	0.014	1539.55	670.257
A-N102L	A-N102	A-N100	Natural	0	0	NS_A-N102L	1	0	0	0	0.06	988.651	988.359	1004.76	1004.27	498.2	0.014	1476.9	654.353
A-N104L	A-N104	A-N102	Natural	0	0	NS_A-N104L	1	0	0	0	0.86	992.898	988.651	1013.41	1004.76	495.7	0.014	9551.55	661.14
A-N108L	A-N108-1	A-N106	Natural	0	0	NS_A-N108L	1	0	0	0	1.95	997.304	992.632	1017.01	1013.14	240.1	0.04	16304.83	666.699
A-N110L	A-N110	A-N108-1	Natural	0	0	NS_A-N110L	1	0	0	0	1.45	1004.323	997.304	1021.63	1017.01	482.7	0	10184.11	486.725
A-N112L	A-N112	A-N110	Natural	0	0	NS_A-N112L	1	0	0	0	0.66	1007.499	1004.323	1033.51	1021.63	482	0.014	5752.5	488.087
A-N114L	A-N114	A-N112	Natural	0	0	NS_A-N114L	1	0	0	0	0.15	1008.263	1007.499	1034.305	1033.51	498.6	0.014	7817.12	487.493
A-N116L	A-N116	A-N114	Natural	0	0	NS_A-N116L	1	0	0	0	3.69	1020.166	1008.263	1037.926	1034.305	322.4	0	16672.79	302.249
A-N128L	A-N128	A-N118	Natural	0	0	NS_A-N128L	1	0	0	0	2.35	1033.35	1024.764	1047.36	1042.498	365.6	0	25601.4	265.858
A-N130L	A-N130	A-N128	Natural	0	0	NS_A-N130L	1	0	0	0	2.97	1048.296	1033.35	1057.2	1047.36	503.4	0	2409.42	267.36
A-N132L	A-N132	A-N130	Natural	0	0	NS_A-N132L	1	0	0	0	1.2	1054.274	1048.296	1063.25	1057.2	500.1	0	2775.94	280.346
R-N112L	R-N112	R-N110	Natural	0	0	NS_R-N112L	1	0	0	0	0.23	878.203	877.042	912.91	906.15	500	0	118059.74	2067.074
R-N110L	R-N110	R-N108	Natural	0	0	NS_R-N110L	1	0	0	0	0.22	877.042	875.963	906.15	938.483	500	0	108450.88	2076.868
R-N108L	R-N108	R-N106	Natural	0	0	NS_R-N108L	1	0	0	0	0.04	875.963	875.765	938.483	938.27	500	0	266588	2081.891
R-N106L	R-N106	R-N104	Natural	0	0	NS_R-N106L	1	0	0	0	0.07	875.765	875.401	938.27	932.241	500	0	148128.17	2093.091
R-N104L	R-N104	R-N102	Natural	0	0	NS_R-N104L	1	0	0	0	0.04	875.401	875.184	932.241	931.39	500	0.04	210221.07	2634.084
R-N102L	R-N102	R-N100	Natural	0	0	NS_R-N102L	1	0	0	0	-0.04	875.184	875.367	931.39	929.67	440.42	0.04	208192.26	2633.657
R-N130L	R-N130	R-N128	Natural	0	0	NS_R-N130L	1	0	0	0	0.03	886.359	886.231	923.26	922.44	500	0	63990.5	1949.006
R-N128L	R-N128	R-N126	Natural	0	0	NS_R-N128L	1	0	0	0	0.09	886.231	885.776	922.44	924.12	500	0	111503.27	1952.686
R-N126L	R-N126	R-N124	Natural	0	0	NS_R-N126L	1	0	0	0	0.16	885.776	884.955	924.12	923.26	500	0	194264.21	2004.758
R-N124L	R-N124	R-N122	Natural	0	0	NS_R-N124L	1	0	0	0	0.52	884.955	882.351	923.26	919.286	500	0	283144.8	2008.902
R-N122L	R-N122	R-N120	Natural	0	0	NS_R-N122L	1	0	0	0	0.07	882.351	882.013	919.286	918.92	500	0	124494.83	2006.845

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Allen-Fruitdale Links																			
R-N120L	R-N120	R-N118	Natural	0	0	NS_R-N120L	1	0	0	0	-0.01	882.013	882.081	918.92	913.19	500	0	40838.45	2014.159
R-N118L	R-N118	R-N116	Natural	0	0	NS_R-N118L	1	0	0	0	0.46	882.081	879.76	913.19	910.47	500	0	281940.99	2009.149
R-N116L	R-N116	R-N114	Natural	0	0	NS_R-N116L	1	0	0	0	0.35	879.76	877.989	910.47	912.709	500	0	227637.73	2013.748
R-N114L	R-N114	R-N112	Natural	0	0	NS_R-N114L	1	0	0	0	-0.03	877.989	878.203	912.709	912.91	654.1	0.014	73974.16	2011.649
R-N148L	R-N148	R-N146	Natural	0	0	NS_R-N148L	1	0	0	0	0.09	892.716	892.27	931.847	931.58	500	0	179943.52	1965.37
R-N146L	R-N146	R-N144	Natural	0	0	NS_R-N146L	1	0	0	0	0.67	892.27	888.909	931.58	928.21	500	0	570300.07	1957.444
R-N144L	R-N144	R-N142	Natural	0	0	NS_R-N144L	1	0	0	0	0.16	888.909	888.098	928.21	927.149	500	0	182289.52	1947.72
R-N142L	R-N142	R-N140	Natural	0	0	NS_R-N142L	1	0	0	0	0.06	888.098	887.801	927.149	927.433	500	0	168741.43	1940.093
R-N140L	R-N140	R-N138	Natural	0	0	NS_R-N140L	1	0	0	0	0.19	887.801	886.832	927.433	925.64	500	0	288848.43	1928.001
R-N138L	R-N138	R-N136	Natural	0	0	NS_R-N138L	1	0	0	0	-0.01	886.832	886.876	925.64	927.185	500	0	32713.14	1956.121
R-N136L	R-N136	R-N134	Natural	0	0	NS_R-N136L	1	0	0	0	0.16	886.876	886.069	927.185	926.37	500	0	153422.39	1945.224
R-N134L	R-N134	R-N132	Natural	0	0	NS_R-N134L	1	0	0	0	-0.08	886.069	886.47	926.37	926.58	500	0	116152.27	1936.888
R-N132L	R-N132	R-N130	Natural	0	0	NS_R-N132L	1	0	0	0	0.02	886.47	886.359	926.58	923.26	677.9	0	46171.06	1953.472
R-N162L	R-N162	R-N160	Natural	0	0	NS_R-N162L	1	0	0	0	0.02	895.675	895.593	935.746	935.6	500	0.014	80647.53	1073.919
R-N160L	R-N160	R-N158	Natural	0	0	NS_R-N160L	1	0	0	0	0.03	895.593	895.429	935.6	933.15	500	0.014	77903.04	1060.127
R-N158L	R-N158	F-N002	Natural	0	0	NS_R-N160L	1	0	0	0	0	895.429	895.429	933.15	933.75	248.4	0.014	13602.46	1089.314
R-N156L	R-N156	R-N154	Natural	0	0	NS_R-N156L	1	0	0	0	0.05	894.695	894.436	931.93	932.04	500	0	117042.23	1998.995
R-N154L	R-N154	R-N152	Natural	0	0	NS_R-N154L	1	0	0	0	0.15	894.436	893.701	932.04	931.31	500	0	204678.94	1983.962
R-N152L	R-N152	R-N148	Natural	0	0	NS_R-N152L	1	0	0	0	0.14	893.701	892.716	931.31	931.847	682.3	0	96162.71	1971.908
A-N118L	A-N118	A-N116	Natural	0	0	NS_A-N118L	1	0	0	0	1.48	1024.764	1020.166	1042.498	1037.926	311.3	0	16006.7	304.891
A-N106L	A-N106	A-N104	Natural	0	0	NS_A-N106L	1	0	0	0	-0.1	992.632	992.898	1013.14	1013.41	263.7	0.04	2376.83	663.472
A-N072L	A-N072	A-N070	Natural	0	0	NS_A-N072L	1	0	0	0	2.33	966.56	960.182	986.139	980.082	273.5	0.014	46727.07	707.542
Link620	A-N044	A-N034	Circular	2	0	0	1	0	0	0	3.73	1008.61	963.421	1013.41	969.221	1211.01	0.013	43.7	36.226
bakercheck	A-N044	Node769	0	0	0	0	0	0	0	0	0	0	0	1013.41	1013.41	0	0	0	9.12
Link589	A-N912	Node573	Rectangular	3.5	0	0	1	0	0	12	0.53	1012.58	1012.34	1016.08	1015.84	45	0.017	328.28	15.709
Link572	A-N914	A-N108-2	Natural	2.9	0	6bot12top2.9deepConc	1	0	0	0	0.11	1013.48	1013.28	1018.85	1016.24	175	0.017	114.95	115.204
504b	F-N918	F-N918.2	Circular	4	0	0	1	0	0	0	0.39	1020.64	1020.28	1024.9	1024.49	92	0.024	48.67	40.736
504a	F-N918	F-N918.2	Special	4.92	0	0	1	0	0	0	0.39	1020.64	1020.28	1024.9	1024.49	92	0.024	48.93	38.508
F-N920L	F-N920	F-N920.2	Natural	3.6	0	10bot20top3.6deepNat	1	1	1	8	0.04	1033.99	1033.7	1037.59	1037.3	657	0.04	75.95	133.784
Link433	A-N924	Node425	Rectangular	3	0	0	1	0	0	6.7	-0.1	942.94	943.13	951.54	947.96	182	0.017	58.13	22.477
A-N926L1	A-N926	A-N340	Rectangular	4	0	0	1	1	1	6	0.14	947.75	947.66	952.16	951.836	63.977	0.013	116.19	-26.813
Link396	A-N926	Node388	Natural	5.7	0	5bot10top5.7deepRck	1	0	0	0	0.58	946.46	946.13	952.16	951.83	57	0.014	175.7	79.952
Link391	A-N928	Node384	Rectangular	4	0	0	1	0	0	6	0.13	948.21	947.46	952.93	953.16	563	0.017	86.47	72.417
Link379	F-N932	Node373	Natural	3.7	0	8bot14top3.7deepRck	1	0	0	0	0.18	949.24	948.94	958.55	952.72	165	0.045	100.5	88.916
A-N936L	A-N936	A-N938	Natural	3.5	0	8bot16top3.5deepNat	1	1	1	8	0.17	943.9	942.5	947.4	946.5	809	0.017	202.9	135.104
Link649	A-N938	Node625	Trapezoidal	4	0	0	1	0	0	8	100	942.5	941.6	946.5	946.77	0.9	0.017	4440.24	1519.565
Link568	A-N915	Node555	Natural	3.6	0	Link 568	1	0	0	0	0.17	1013.91	1013.54	1019.91	1017.23	218	0.035	92.76	111.095
A-N436L	A-N436	A-N438	Circular	2.25	0	0	1	1.5	1.5	0	0.16	972.602	972.2	983	978.5	251.5	0.013	12.38	38.275
A-N438L	A-N438	A-N438.2	Circular	2.25	0	0	1	1.5	1.5	0	2.49	972.2	969.5	978.5	977.3	108.28	0.013	48.9	37.394
A-N458L	A-N458	A-N914	Trapezoidal	1.5	0	0	1	1.5	1.5	0	3.46	1035.025	1014.95	1036.525	1018.85	580.342	0.03	22.68	17.912
F-N920L.1	F-N920.1	F-N920.1.3	Natural	2.9	0	6bot12top2.9deepCnc	1	1	1	8	-0.06	1033.41	1033.46	1036.39	1036.7	83	0.017	83.45	165.263
F-N920L.2	F-N920.2	F-N920.1	Natural	2.9	0	6bot12top2.9deep	1	1	1	8	0.04	1033.7	1033.41	1037.3	1036.39	662	0.017	71.17	125.927

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Allen-Fruitdale Links																			
Link305	F-N920.1.1	Node298	Natural	3	0	8bot14top3deepgunite	1	0	0	0	0.55	1033.17	1032.76	1037.39	1036.36	74	0.022	263.53	146.872
F-N920L.12	F-N920.1.2	F-N920.1.1	Natural	2.9	0	6bot12top2.9deep	1	1	1	8	0.64	1033.45	1033.17	1036.35	1037.39	44	0.017	271.24	147.316
F-N920L.13	F-N920.1.3	F-N920.1.2	Natural	2.9	0	6bot12top2.9deep	1	1	1	8	0	1033.46	1033.45	1036.7	1036.35	551	0.017	14.49	158.039
Link306	Node298	Node299	Natural	3.6	0	10bot20top3.6deepNat	1	0	0	0	-0.01	1032.76	1032.77	1036.36	1038.77	165	0.04	28.14	139.564
Link307	Node299	Node300	Special	6	0	0	1	0	0	0	0.05	1032.77	1032.76	1038.77	1038.77	19	0.024	33.41	138.415
Link308	Node300	Node301	Natural	3.6	0	10bot20top3.6deepNat	1	0	0	0	0.39	1032.76	1031.79	1038.77	1035.82	247	0.04	226.55	136.725
Link309	Node301	Node301.2	Natural	3.5	0	6bot6wall3.5deep	1	0	0	0	0.02	1031.79	1031.78	1035.82	1035.81	42	0.04	24.54	128.658
Link312	Node302	Node302.1	Natural	3.3	0	5bot14top3.3deepGun	1	0	0	0	0.08	1031.27	1031.12	1034.71	1034.53	184	0.022	94.04	146.619
Link309.1	Node301.1	Node302	Natural	3.4	0	9bot17top3.4deepNat	1	0	0	0	-0.05	1031.21	1031.27	1035.12	1034.71	111	0.04	65.88	148.598
Link309.2	Node301.2	Node301.1	Natural	3.5	0	9bot17top3.5deepNat	1	0	0	0	0.03	1031.78	1031.21	1035.81	1035.12	2092	0.04	48.87	121.449
Link314	Node306	Node308	Natural	3.2	0	10bot17top3.2deepNat	1	0	0	0	-0.13	1030.57	1030.84	1033.86	1034.19	207	0.04	98.55	146.721
Link312.1	Node302.1	Node306	Natural	3.2	0	10bot17top3.2deepNat	1	0	0	0	0.08	1031.12	1030.57	1034.53	1033.86	701	0.04	76.43	145.371
Link315	Node308	Node309	Natural	3.3	0	10bot17top3.3deepRck	1	0	0	0	0.24	1030.84	1030.42	1034.19	1033.81	172	0.045	187.74	187.531
Link317	Node309	Node311	Natural	3.3	0	10bot17top3.3deepNat	1	0	0	0	0.28	1030.42	1029.77	1033.81	1033.5	229	0.04	152.32	186.811
Link318	Node311	Node311.1	Natural	3.3	0	10bot17top3.3deepRck	1	0	0	0	0.12	1029.77	1029.57	1033.5	1033.31	165	0.045	132.27	186.054
Link320	Node312	Node312.1	Natural	3.7	0	6bot14top3.7deepNat	1	0	0	0	-0.05	1029.48	1029.53	1033.23	1033.23	109	0.04	49.64	185.77
Link318.1	Node311.1	Node312	Natural	3.3	0	6bot14top3.7deepNat	1	0	0	0	0.12	1029.57	1029.48	1033.31	1033.23	74	0.04	65.12	185.76
Link438	Node314	Node429	Circular	6	0	0	1	0	0	0	-1.68	1026.9	1028.16	1034.57	1038.66	75	0.024	297.34	-32.759
Link699	Node314	Node314.2	Circular	3.5	0	0	1	0	0	0	0.7	1030.07	1030	1034.57	1034.5	10	0.013	84.18	156.075
Link320.1	Node312.1	Node314	Natural	3.7	0	6bot14top3.7deepNat	1	0	0	0	1.57	1029.53	1026.9	1033.23	1034.57	167	0.04	290.87	185.846
Link322	Node316	Node317	Natural	10	0	10bot25top10deepNat	1	0	0	0	0.39	952.35	950.56	962.35	960.56	460	0.04	1178.61	35.478
Link324	Node317	Node319	Natural	5	0	10bot18top5deepNat	1	0	0	0	-3.35	950.56	954.68	960.56	959.68	123	0.04	1002.39	34.666
Link323	Node318	Node316	Natural	5	0	10bot18top5deepNat	1	0	0	0	0.63	953.49	952.35	958.49	962.35	180	0.04	435.87	37.39
Link325	Node319	Node320	Natural	5	0	link325	1	0	0	0	0.84	954.68	953.17	959.68	958.17	180	0.04	497.37	34.38
Link326	Node320	Node321	Natural	5	0	12bot20top5deepNat	1	0	0	0	0.07	953.17	953.076	958.17	958.076	136	0.04	170.12	33.723
Link327	Node321	Node322	Natural	5	0	link325	1	0	0	0	-0.26	953.076	953.34	958.076	960.238	100	0.04	279.02	33.172
851.1	Node322	Node323	Rectangular	4	0	0	1	0	0	8	0	953.34	953.34	960.238	960.238	30	0.012	15.18	16.408
851.2	Node322	Node323	Rectangular	4	0	0	1	0	0	8	0	953.34	953.34	960.238	960.238	30	0.012	15.18	16.408
Link330	Node323	Node325	Natural	4	0	8bot24top4deepNat	1	0	0	0	0.09	953.34	952.53	960.238	956.89	896	0.04	130.7	30.768
Link331	Node325	Node326	Natural	4.3	0	Link 331	1	0	0	0	0.04	952.53	952.44	956.89	956.8	209	0.04	71	28.852
Link332	Node326	Node327	Rectangular	3.5	0	0	1	0	0	14	0	952.44	952.44	956.8	957.14	18	0.04	7.2	28.7
Link333	Node327	Node329	Natural	4.7	0	6bot16top4.7deepNat	1	0	0	0	0.02	952.44	952.39	957.14	957.09	206	0.04	56.88	28.581
Link337	Node329	Node332	Rectangular	4	0	0	1	0	0	12	0.02	952.39	952.388	957.09	956.75	9	0.04	34.83	28.469
Link338	Node331	Node331.1	Natural	5.5	0	10bot30top5.5deepnat	1	0	0	0	0.02	952.03	951.979	957.58	958.78	232	0.04	135.68	27.728
Link336	Node332	Node331	Natural	4.3	0	6bot14top4.3deepNW	1	0	0	0	0.06	952.388	952.03	956.75	957.58	563	0.045	64.6	28.243
Link340	Node333	Node335	Natural	5.3	0	6bot14top5.3deepNat	1	0	0	0	0.09	951.91	951.46	958.57	956.82	521	0.04	113.55	27.334
Link338.1	Node331.1	Node333	Natural	5	0	tirenewjersey	1	0	0	0	0.02	951.979	951.91	958.78	958.57	309	0.04	109.84	27.422
Link341	Node335	Node336	Natural	5.3	0	6bot14top5.3deepNat	1	0	0	0	0.11	951.46	951.27	956.82	958.5	171	0.04	128.79	27.424
Link342	Node336	F-N038-2	Natural	7.2	0	7bot14top7.2deepNat	1	0	0	0	0.32	951.27	950.83	958.5	960.83	136	0.04	352.78	27.503
Link342.1	F-N038-2	Node336.2.	Natural	8.4	0	5bot14top8.4deepNat	1	0	0	0	0.26	950.83	950.3	960.83	958.7	207	0.04	333.44	36.805
FruitMain	Node336.2.	F-N038-1	0	0	0	0	0	0	0	0	0	0	0	958.7	992.03	0	0	0	70.76
fruitblock	Node336.2.	Node610	0	0	0	0	0	0	0	0	0	0	0	958.7	956.15	0	0	0	-41.458

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Allen-Fruitdale Links																			
Link346	Node340	Node341	Special	6.3	0	0	1	0	0	0	0	951.62	951.62	960.02	957.48	56	0.024	4.61	-41.632
Link347	Node341	Node342	Natural	5.4	0	8bot30top5.4deepNat	1	0	0	0	-0.09	951.62	951.88	957.48	957.28	279	0.04	250.36	-41.897
Link348	Node342	Node343	Special	7.67	0	0	1	0	0	0	0.08	951.88	951.8	957.28	956.655	100	0.024	82.82	-42.642
Link351	Node343	Node347	Natural	4.3	0	Link351	1	0	0	0	0.1	951.8	951.52	956.655	956.13	267	0.04	99.32	-43.041
Link350	Node344	Node340	Natural	8.4	0	5bot14top8.4deepNat	1	0	0	0	-4.3	951.19	951.62	959.59	960.02	10	0.04	1366.48	-41.603
Link349	Node345	Node344	Natural	8.4	0	5bot14top8.4deepNat	1	0	0	0	-0.22	950.87	951.19	959.46	959.59	143	0.04	311.73	-41.511
Link352	Node347	Node348	Natural	4.6	0	Link 352	1	0	0	0	-0.17	951.52	951.72	956.13	957.5	117	0.04	160.25	-43.726
Link353	Node348	F-N138	Natural	3.7	0	Link 353	1	0	0	0	0.05	951.72	951.46	957.5	958.36	486	0.04	62.31	-45.443
Link354	F-N138	Node350	Rectangular	5.3	0	0	1	0	0	20	0.07	951.46	951.43	958.36	958.36	45	0.022	302.66	-7.592
Link355	Node350	Node351	Natural	4	0	link 355	1	0	0	0	0.07	951.43	951.32	958.36	955.32	154	0.034	69.92	17.193
Link356	Node351	Node352	Natural	4	0	link 356	1	0	0	0	0.07	951.32	951.1	955.32	955.1	300	0.022	125.62	14.922
Link357	Node352	Node353	Natural	3.99	0	link 357	1	0	0	0	-0.05	951.11	951.25	955.1	956.26	302	0.022	127.61	10.661
Link358	Node353	Node354	Natural	3.2	0	link358	1	0	0	0	0.05	951.25	951.21	956.26	954.47	77	0.04	56.35	7.428
Link359	Node354	Node355	Natural	3.2	0	link358	1	0	0	0	-0.09	951.21	951.31	954.47	955.41	116	0.04	72.59	7.322
Link360	Node355	Node356	Natural	4	0	link360	1	0	0	0	0.1	951.31	951.19	955.41	955.29	119	0.05	74.49	56.991
Link361	Node356	Node357	Natural	3.6	0	link361	1	0	0	0	0.12	951.19	950.96	955.29	954.64	200	0.04	94.9	55.393
Link362	Node357	Node358	Natural	3.6	0	6bot18top3.6deepGun	1	0	0	0	0.02	950.96	950.93	954.64	954.61	134	0.022	72.97	53.37
Link363	Node358	Node359	Natural	3.3	0	7bot15top3.3deepNat	1	0	0	0	0.06	950.93	950.77	954.61	954.11	259	0.04	54.78	50.857
Link364	Node359	Node360	Natural	3.3	0	7bot15top3.3deepNat	1	0	0	0	0.05	950.77	950.62	954.11	957.22	297	0.04	49.54	45.296
Link365	Node360	F-N602	Rectangular	4.8	0	0	1	0	0	18	0.23	950.62	950.54	957.22	957.14	35	0.04	234.97	44.333
Link367	Node362	Node363	Natural	3.4	0	8bot14top3.4deepNat	1	0	0	0	0.56	949.99	949.56	954.19	952.97	77	0.04	175.16	77.044
Link368	Node363	Node364	Natural	3.4	0	8bot14top3.4deepNat	1	0	0	0	-0.14	949.56	949.78	952.97	953.44	160	0.04	0.52	69.33
Link369	Node364	Node365	Natural	3.2	0	8bot14top3.2deepNat	1	0	0	0	0.04	949.78	949.66	953.44	952.92	315	0.04	41.84	65.866
Link370	Node365	Node366	Natural	3.2	0	10bot22top3.2deepNat	1	0	0	0	-0.01	949.66	949.68	952.92	955.38	330	0.04	24.82	62.152
Link371	Node366	Node367	Rectangular	3	0	0	1	0	0	12	0.76	949.68	949.49	955.38	955.49	25	0.04	131.66	62.566
Link372	Node367	Node368	Natural	3.2	0	10bot22top3.2deepNat	1	0	0	0	0.15	949.49	949.19	955.49	953.21	201	0.04	123.15	62.796
Link373	Node368	F-N402	Natural	3.2	0	10bot22top3.2deepNat	1	0	0	0	-0.09	949.19	949.24	953.21	953.866	58	0.04	93.59	63.207
Link375	Node369	Node370	Natural	4.3	0	8bot16top4.3deepNat	1	0	0	0	0.04	949.33	949.2	953.74	953.51	328	0.04	72.4	88.882
Link376	Node370	Node371	Natural	3.6	0	7bot15top3.6deepNat	1	0	0	0	-0.01	949.2	949.21	953.51	954.91	144	0.04	20.92	86.826
Link377	Node371	Node372	Circular	5	0	0	1	0	0	0	0.27	949.21	949.15	954.91	954.15	22	0.024	73.67	86.603
Link378	Node372	F-N932	Natural	3.6	0	7bot15top3.6deepNat	1	0	0	0	-0.04	949.15	949.24	954.15	958.55	202	0.04	52.99	86.377
Link380	Node373	Node374	Natural	2.8	0	6bot12top2.8deepRck	1	0	0	0	0.07	948.94	948.8	952.72	952.5	213	0.045	31.26	86.132
Link381	Node374	Node375	Natural	3.7	0	8bot14top3.7deepRck	1	0	0	0	-0.01	948.8	948.81	952.5	952.55	163	0.045	18.46	83.199
Link382	Node375	Node375.1	Natural	3.7	0	8bot14top3.7deepRck	1	0	0	0	0.2	948.81	948.648	952.55	952.59	80	0.045	106.06	81.27
Link384	Node376	Node378	Natural	3.8	0	10bot18top3.8deepNat	1	0	0	0	-0.27	948.39	948.78	952.47	952.64	147	0.04	187.55	77.251
Link382.1	Node375.1	Node376	Natural	3.9	0	10bot18top3.9deepNat	1	0	0	0	0.2	948.648	948.39	952.59	952.47	127	0.04	171.92	79.447
Link385	Node378	Node378.1	Natural	3.8	0	10bot18top3.8deepNat	1	0	0	0	0.17	948.78	948.5	952.64	952.77	160	0.04	152.32	75.443
Link387	Node379	Node381	Natural	3.3	0	8bot14top3.3deepNat	1	0	0	0	-0.05	948.4	948.44	952.14	951.81	84	0.04	48.95	71.928
Link385.1	Node378.1	Node379	Natural	3.3	0	8bot14top3.3deepNat	1	0	0	0	0.18	948.5	948.4	952.77	952.14	55	0.04	95.65	73.906
Link388	Node381	Node382	Natural	3.3	0	8bot14top3.3deepNat	1	0	0	0	0.2	948.44	948.29	951.81	951.89	76	0.04	99.66	70.549
Link389	Node382	Node383	Natural	3.3	0	8bot14top3.3deepNat	1	0	0	0	-0.5	948.29	948.64	951.89	952.68	70	0.04	158.62	70.883
Link390	Node383	A-N928	Rectangular	4	0	0	1	0	0	8	0.77	948.64	948.33	952.68	952.93	40	0.04	126.78	71.321

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Allen-Fruitdale Links																			
Link392	Node384	Node384.1	Natural	5.7	0	5bot10top5.7deepRck	1	0	0	0	0.08	947.46	947.26	953.16	952.96	254	0.05	64.79	72.51
Link394	Node385	Node387	Circular	4	0	0	1	0	0	0	0.17	947.14	946.76	952.84	952.46	230	0.013	58.39	83.555
Link392.1	Node384.1	Node385	Natural	5.7	0	8bot10top5.7deepNat	1	0	0	0	0.08	947.26	947.14	952.96	952.84	147	0.04	103.51	72.716
Link395	Node387	A-N926	Natural	5.7	0	10bot20top5.5deepNat	1	0	0	0	0.19	946.76	946.46	952.46	952.16	155	0.04	315.82	83.771
Link397	Node388	Node389	Special	5	0	0	1	0	0	0	1.9	946.13	945.58	951.83	951.75	29	0.014	184.65	79.693
Link398	Node389	Node390	Natural	5.7	0	5bot10top5.7deepRck	1	0	0	0	1.08	945.58	944.55	951.75	950.25	95	0.04	240.43	79.284
Link399	Node390	Node391	Special	5	0	0	1	0	0	0	0.89	944.55	944.3	950.25	950	28	0.024	73.9	75.483
Link400	Node391	Node392	Natural	5.7	0	5bot10top5.7deepRck	1	0	0	0	0.27	944.3	944.02	950	949.72	102	0.014	120.98	72.431
A-N926L	Node392	Node392.1	Special	4.25	0	0	1	1	1	8	0.01	944.02	943.91	949.72	947.57	1470.02	0.024	12.13	69.075
Link405	Node393	Node396	Special	5	0	0	1	0	0	0	0.12	947	946.36	952.1	952.46	546	0.013	49.44	-23.651
Link401.1	A-N320.1	Node393	Special	5	0	0	1	0	0	0	-0.12	946.88	947	951.98	952.1	97	0.013	50.79	19.409
Link403	A-N320.1	Node395	Special	5	0	0	1	0	0	0	0.39	946.88	946.5	951.98	952.14	97	0.013	90.38	-21.819
Link404	Node395	Node396	Special	5	0	0	1	0	0	0	0.03	946.5	946.36	952.14	952.46	546	0.013	23.12	-22.785
Link406	Node396	Node397	Rectangular	3	0	0	1	0	0	12.5	0	946.34	946.34	952.46	951.15	50	0.013	15.39	38.771
Link407	Node397	Node398	Circular	4	0	0	1	0	0	0	0.05	945.2	945.1	951.15	949.66	213	0.013	31.12	38.768
Link408	Node398	Node399	Rectangular	3	0	0	1	0	0	10	0	946.2	946.2	949.66	949.94	150	0.013	11.93	72.545
Link409	Node399	A-N310	Circular	4	0	0	1	0	0	0	-0.11	943.5	943.87	949.94	949.774	325	0.013	48.47	38.894
A-N310L	A-N306	Node401	Circular	4	0	0	1	1	1	8	0.03	943.4	943.2	950.31	951.38	642	0.013	25.35	58.07
Link411	Node401	Node402	Circular	4	0	0	1	0	0	0	0	943.2	943.2	951.38	950.53	49	0.013	4.54	58.086
Link412	Node402	Node403	Special	3.75	0	0	1	0	0	0	0	943.2	943.2	950.53	947.7	22	0.013	2.18	58.051
Link413	Node403	Node404	Natural	4.4	0	7bot13top4.4deepNat	1	0	0	0	-10.89	943.2	946.14	947.7	950.54	27	0.04	991.66	52.049
Link414	Node404	Node405	Natural	4.4	0	7bot13top4.4deepNat	1	0	0	0	0.8	946.14	945.25	950.54	949.71	111	0.04	269.09	52.06
Link415	Node405	A-N300	Natural	4.4	0	7bot13top4.4deepNat	1	0	0	0	0.81	945.25	943.84	949.71	951.54	174	0.04	270.52	52.101
Link417	Node409	Node410	Natural	4.4	0	7bot13top4.4deepNat	1	0	0	0	0.33	945.64	944.64	950.48	949.66	302	0.04	172.93	60.966
Link418	Node410	Node411	Natural	3.6	0	7bot13top3.6deepNat	1	0	0	0	0.03	944.64	944.5	949.66	948.1	473	0.04	38.91	60.753
Link419	Node411	Node412	Natural	3.6	0	7bot13top3.6deepNat	1	0	0	0	0.01	944.5	944.46	948.1	948.96	465	0.04	20.97	60.619
Link420	Node412	Node413	Rectangular	3	0	0	1	0	0	12	0.03	944.46	944.44	948.96	948.94	60	0.04	27.57	60.585
Link421	Node413	Node414	Natural	3.1	0	6bot14top3.1deepNat	1	0	0	0	0.15	944.44	944.08	948.94	947.2	236	0.04	69.55	60.571
Link422	Node414	Node415	Natural	3.1	0	6bot10top3.1deepConc	1	0	0	0	-0.07	944.08	944.13	947.2	947.23	68	0.017	88.71	60.566
Link423	Node415	Node416	Natural	3.1	0	6bot10top3.1deepConc	1	0	0	0	0.14	944.13	943.83	947.23	946.93	211	0.017	123.35	60.565
Link424	Node416	Node417	Natural	3.1	0	6bot10top3.1deepConc	1	0	0	0	-0.1	943.83	944.01	946.93	947.71	182	0.017	102.88	60.561
Link425	Node417	Node418	Rectangular	3	0	0	1	0	0	14	0.17	944.01	943.96	947.71	947.66	29	0.04	74.59	60.557
Link426	Node418	Node418.2	Natural	3.2	0	3bot14top3.2deepNat	1	0	0	0	-0.11	943.96	944.06	947.66	947.26	94	0.04	60.93	60.555
Link429	Node419	A-N024-2	Special	3	0	0	1	0	0	6	0.41	944.08	943.74	947.18	949.74	82	0.024	53.18	-19.398
Link426.1	Node418.1	Node419	Natural	3.1	0	6bot10top3.1deepConc	1	0	0	0	-0.14	944.07	944.08	947.21	947.18	7	0.017	123.64	-19.307
1449.1	Node418.1	A-N026.1	Circular	4	0	0	1	0	0	0	3.9	938.08	934.29	947.21	947.66	97.3	0.013	283.5	69.018
1449.2	Node418.1	A-N026.1	Circular	1.5	0	0	1	0	0	0	9.35	943.39	934.29	947.21	947.66	97.3	0.013	32.12	0
Link426.2	Node418.2	Node418.1	Natural	3.1	0	6bot10top3.1deepConc	1	0	0	0	-0.08	944.06	944.07	947.26	947.21	13	0.017	90.73	60.553
Link430	A-N024-2	Node423	Circular	6	0	0	1	0	0	0	0.42	943.74	943.32	949.74	949.32	99	0.024	149.42	12.269
Link431	Node423	A-N022	Rectangular	3	0	0	1	0	0	6.7	0.64	943.32	942.85	949.32	949.15	73	0.017	144.35	11.911
Link432	A-N022	A-N924	Special	6.4	0	0	1	0	0	0	-0.14	942.85	942.94	949.15	951.54	63	0.024	70.96	23.047
Link434	Node425	Node426	Natural	4.8	0	6bot16top4.8deepNat	1	0	0	0	-0.13	943.13	943.43	947.96	948.23	231	0.04	135.65	21.263

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Allen-Fruitdale Links																			
Link435	Node426	Node427	Natural	3.1	0	5bot11top3.1deepNat	1	0	0	0	0.2	943.43	942.93	948.23	946.1	253	0.04	61.05	21.117
Link436	Node427	Node428	Special	5	0	0	1	0	0	0	0.93	942.93	942.65	946.1	948.09	30	0.024	75.56	21.111
Link439	Node429	Node430	Circular	6	0	0	1	0	0	0	0.61	1031.02	1028.98	1038.66	1047.58	336	0.024	178.75	-18.133
Link443	Node429	F-N058.2	Circular	4	0	0	1	0	0	0	-0.03	1028.16	1028.39	1038.66	1034.78	898	0.024	12.45	21.201
Link444	Node430	Node434	Circular	6	0	0	1	0	0	0	0.46	1028.98	1028.87	1047.58	1047.17	24	0.024	155.3	-19.748
Link448	F-N058.2	F-N058.2.1	Natural	3	0	6bot12top3deepNat	1	0	0	0	0.05	1028.78	1028.72	1034.78	1033.64	118	0.04	34.26	-44.504
Link445	Node434	Node435	Circular	6	0	0	1	0	0	0	-43	1028.87	1031.02	1047.17	1047.52	5	0.024	1504.28	-19.929
Link440	Node435	F-N058.2	Circular	6	0	0	1	0	0	0	0.38	1031.02	1028.78	1047.52	1034.78	591	0.024	141.23	-22.135
Link637	Node440	Node615	Natural	3.8	0	5bot5top3.8deepConc	1	0	0	0	0	1028.67	1028.67	1032.5	1032.47	32	0.017	6.91	12.9
Link451	Node441	Node441.3	Natural	3.8	0	8bot18top3.8deepRock	1	0	0	0	0.19	1028.67	1028.42	1032.5	1032.22	132	0.045	127.35	11.698
Link452	Node442	F-N822	Natural	3.8	0	8bot18top3.8deepRock	1	0	0	0	-0.13	1027.37	1028.061	1031.17	1031.861	552	0.045	103.54	9.807
Link451.1	Node441.1	Node442	Natural	3.8	0	8bot18top3.8deepRock	1	0	0	0	0.19	1027.55	1027.37	1031.35	1031.17	96	0.045	126.72	9.661
Link451.2	Node441.2	Node441.1	Natural	3	0	8bot14top3deepGun	1	0	0	0	0.19	1027.9	1027.55	1030.9	1031.35	187	0.022	153.17	9.634
Link451.3	Node441.3	Node441.2	Natural	3	0	8bot14top3deepConc	1	0	0	0	0.18	1028.42	1027.9	1032.22	1030.9	282	0.017	196.75	11.22
Link458	Node448	F-N050	Circular	1.5	0	0	1	0	0	0	18.75	1027.2	983.328	1030.4	1018.54	234	0.013	45.48	18.945
panoramic	Node448	Node449	0	0	0	0	0	0	0	0	0	0	0	1030.4	1030.4	0	0	0	-4.394
Link460	Node449	Node450	Natural	3.2	0	12bot18top3.2deepRck	1	0	0	0	0.18	1027.2	1026.99	1030.4	1030.19	117	0.045	117.37	-4.055
Link461	Node450	Node451	Natural	3.1	0	6bot18top3.1deepGun	1	0	0	0	0.18	1026.99	1026.85	1030.19	1030.3	79	0.022	162.66	-5.113
Link462	Node451	Node452	Natural	3.1	0	6bot18top3.1deepGun	1	0	0	0	0.21	1026.85	1026.41	1030.3	1030.15	206	0.022	178.58	-6.738
Link463	Node452	Node453	Natural	3.1	0	6bot18top3.1deepGun	1	0	0	0	-0.01	1026.41	1026.42	1030.15	1029.52	130	0.022	33.89	-8.431
Link464	Node453	Node454	Rectangular	3.1	0	0	1	0	0	8	0.05	1026.42	1026.411	1029.52	1029.511	18	0.022	40.33	-9.476
Link465	Node454	Node455	Natural	3.1	0	6bot18top3.1deepGun	1	0	0	0	0.05	1026.411	1026.26	1029.511	1029.87	316	0.022	84.47	-12.365
Link466	Node455	Node456	Natural	3.6	0	6bot12top3.6deepRock	1	0	0	0	0.16	1026.26	1025.88	1029.87	1029.48	241	0.045	69.84	-16.622
Link467	Node456	F-N812	Natural	3.6	0	6bot12top3.6deepGun	1	0	0	0	-0.1	1025.88	1025.96	1029.48	1032.262	77	0.022	115.96	-18.487
Link469	Node457	Node458	Natural	3.6	0	6bot12top3.6deepGun	1	0	0	0	-0.1	1025.999	1026.035	1032	1030	35	0.022	115.38	42.355
Link470	Node458	Node459	Rectangular	3.6	0	0	1	0	0	9	-0.1	1026.035	1026.053	1030	1030.053	18	0.022	81.83	42.075
Link471	Node459	Node460	Natural	4	0	6bot12top4deepRck	1	0	0	0	0.25	1026.053	1025.26	1030.053	1029.26	323	0.045	101.14	41.03
Link472	Node460	Node461	Natural	4	0	6bot12top4deepRck	1	0	0	0	0.24	1025.26	1024.78	1029.26	1029.78	196	0.045	101.02	40.267
Link473	Node461	Node462	Natural	5	0	6bot16top5deepGun	1	0	0	0	0.24	1024.78	1024.63	1029.78	1029.63	63	0.022	354.14	39.454
Link474	Node462	Node463	Natural	5	0	6bot16top5deepGun	1	0	0	0	0.08	1024.63	1024.43	1029.63	1029.43	255	0.022	203.26	38.616
Link475	Node463	Node464	Natural	5	0	6bot16top5deepGun	1	0	0	0	-0.05	1024.43	1024.53	1029.43	1029.53	199	0.022	162.69	37.195
Link476	Node464	Node465	Natural	5	0	6bot16top5deepGun	1	0	0	0	0.21	1024.53	1024.09	1029.53	1029.09	208	0.022	333.8	35.986
Link477	Node465	Node466	Natural	5	0	6bot16top5deepNat	1	0	0	0	0.26	1024.09	1023.68	1029.09	1028.68	158	0.04	203.34	34.652
Link478	Node466	Node467	Rectangular	4	0	0	1	0	0	12	0	1023.68	1023.68	1028.68	1028.68	16	0.04	7.39	34.049
Link479	Node467	Node468	Natural	4	0	10bot13top4deepNat	1	0	0	0	0.06	1023.68	1023.46	1028.68	1027.46	383	0.04	73.85	32.959
Link480	Node468	Node469	Natural	4	0	10bot14top4deepRck	1	0	0	0	0.18	1023.46	1023.05	1027.46	1027.05	223	0.045	126.32	31.629
Link481	Node469	Node470	Special	4	0	0	1	0	0	0	-0.42	1023.05	1023.3	1027.05	1027.3	59	0.04	54.76	31.492
Link482	Node470	Node471	Natural	4	0	6bot12top4deepRck	1	0	0	0	0.09	1023.3	1022.8	1027.3	1027.4	560	0.045	60.99	31.518
Link483	Node471	Node472	Special	4.6	0	0	1	0	0	9.3	0.22	1022.8	1022.66	1027.4	1029.04	63	0.045	209.24	31.706
Link484	Node472	Node473	Natural	6	0	5bot10top6deepRck	1	0	0	0	0.47	1023.04	1022.62	1029.04	1028.62	90	0.045	186.99	44.118
Link485	Node473	Node473.3	Natural	6	0	6bot12top6deepRck	1	0	0	0	0.58	1022.62	1022.29	1028.62	1028.29	57	0.045	268.33	43.959
Link485.1	Node473.1	Node478	Natural	6	0	6bot12top6deepRck	1	0	0	0	-0.15	1022.24	1022.57	1028.24	1028.57	215	0.045	138.16	42.744

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Allen-Fruitdale Links																			
Link485.2	Node473.2	Node473.1	Natural	6	0	6bot12top6deepRck	1	0	0	0	0.22	1022.71	1022.24	1028.71	1028.24	216	0.045	164.5	43.172
Link485.3	Node473.3	Node473.2	Natural	6	0	6bot12top6deepRck	1	0	0	0	-0.26	1022.29	1022.71	1028.29	1028.71	162	0.045	179.56	43.676
Link489	Node478	Node479	Natural	4	0	8bot16top4deepRck	1	0	0	0	0.28	1022.57	1021.87	1028.57	1027.87	251	0.045	153.58	41.941
Link490	Node479	Node480	Natural	6	0	8bot16top6deepRck	1	0	0	0	0.05	1021.87	1021.67	1027.87	1027.67	414	0.045	113.74	40.951
Link491	Node480	Node481	Rectangular	4	0	0	1	0	0	10.5	0.01	1021.67	1021.668	1027.67	1027.668	18	0.045	18.71	40.573
Link492	Node481	Node482	Natural	3.5	0	7bot13top3.5deepGun	1	0	0	0	0.01	1021.668	1021.643	1027.668	1025.143	241	0.022	40.21	40.383
Link493	Node482	Node483	Rectangular	3.5	0	0	1	0	0	10	0.02	1021.643	1021.641	1025.143	1026.541	13	0.04	19.17	40.246
Link494	Node483	Node484	Natural	4.9	0	8bot14top4.9deepNat	1	0	0	0	0.01	1021.641	1021.61	1026.541	1026.58	230	0.04	45.8	40.118
Link495	Node484	Node485	Natural	4.9	0	8bot14top4.9deepNat	1	0	0	0	0.02	1021.61	1021.57	1026.58	1026.57	230	0.04	52.03	39.959
Link496	Node485	Node486	Rectangular	4.5	0	0	1	0	0	9	-0.16	1021.57	1021.63	1026.57	1027.1	38	0.04	78.34	39.87
Link497	Node486	Node487	Natural	4.9	0	8bot18top4.9deepRock	1	0	0	0	0.17	1021.63	1020.2	1027.1	1025.1	857	0.045	174.55	39.677
Link498	Node487	Node488	Natural	4.9	0	8bot18top4.9deepRock	1	0	0	0	-0.59	1020.2	1020.65	1025.1	1025.55	76	0.045	328.8	39.684
Link499	Node488	Node488.1	Natural	4.4	0	8bot18top4.4deepRock	1	0	0	0	0.06	1020.65	1020.44	1025.55	1024.91	325	0.045	92.7	40.316
Link500	Node489	Node490	Natural	4.2	0	8bot18top4.9Nat	1	0	0	0	-0.05	1020.54	1020.87	1024.94	1025.14	602	0.04	84.42	60.022
Link502	Node490	F-N918	Natural	4.2	0	8bot18top4.2deepGun	1	0	0	0	0.07	1020.87	1020.64	1025.14	1024.9	326	0.022	184.87	59.802
Link499.1	Node488.1	Node489	Natural	4.4	0	8bot18top4.4deepRock	1	0	0	0	-0.05	1020.44	1020.54	1024.91	1024.94	206	0.045	80.35	60.27
Link507	Node493	Node493.2	Natural	3.5	0	8bot18top3.5deepNat	1	0	0	0	-0.01	1019.81	1019.82	1023.98	1023.48	174	0.04	22.01	77.534
Link504.1	F-N918.1	Node493	Natural	3.5	0	8bot18top3.5deepNat	1	0	0	0	0.39	1020.2	1019.81	1024.41	1023.98	99	0.04	182.26	78.326
Link504.2	F-N918.2	F-N918.1	Natural	4.2	0	8bot18top4.2deepGun	1	0	0	0	0.42	1020.28	1020.2	1024.49	1024.41	19	0.022	451.63	78.582
Link510	Node496	Node499	Natural	3.5	0	8bot18top3.5deepDR	1	0	0	0	-0.2	1019.86	1020.01	1023.43	1023.72	76	0.05	103.21	73.662
Link507.1	Node493.1	Node496	Natural	3.5	0	8bot18top3.5deepNat	1	0	0	0	-0.35	1019.67	1019.86	1023.17	1023.43	54	0.04	172.25	74.04
Link507.2	Node493.2	Node493.1	Natural	3.5	0	8bot18top3.5deepNat	1	0	0	0	0.05	1019.82	1019.67	1023.48	1023.17	304	0.04	64.5	75.547
Link511	Node499	Node500	Natural	3.4	0	8bot18top3.4deepNat	1	0	0	0	0.09	1020.01	1019.76	1023.72	1023.45	270	0.04	84.51	73.436
Link512	Node500	Node501	Natural	3.4	0	8bot18top3.4deepNat	1	0	0	0	0.19	1019.76	1019.28	1023.45	1023.25	247	0.04	122.43	73.3
Link513	Node501	Node502	Natural	3.4	0	8bot18top3.4deepNat	1	0	0	0	-0.36	1019.28	1019.96	1023.25	1023.46	189	0.04	166.59	73.367
Link514	Node502	Node503	Rectangular	3.5	0	0	1	0	0	10	-0.16	1019.96	1020.01	1023.46	1023.61	32	0.04	61.1	73.61
Link515	Node503	Node504	Natural	3.6	0	8bot14top3.6deepNat	1	0	0	0	0.33	1020.01	1019.16	1023.61	1023.16	256	0.04	146.83	73.675
Link516	Node504	Node505	Rectangular	4	0	0	1	0	0	10.5	-0.12	1019.16	1019.2	1023.16	1023.2	33.1	0.04	69.43	74.169
Link526	Node505	Node505.1	Natural	4	0	7bot15top4deepNat	1	0	0	0	0.06	1019.2	1018.81	1023.2	1022.82	654	0.04	71.6	74.973
A-N308L.1	A-N308.1	Node40	Circular	2.5	0	0	1	1.5	1.5	0	0.72	949.7	949.11	952.2	951.61	82	0.013	34.79	27.861
A-N308L.2	A-N308.2	A-N308.1	Circular	1.75	0	0	1	1.5	1.5	0	0.72	951.16	949.7	953.43	952.2	203	0.013	13.44	20.083
A-N308L.3	A-N308.3	A-N308.2	Circular	1.75	0	0	1	1.5	1.5	0	0.72	951.54	951.16	953.86	953.43	53	0.013	13.42	23.586
A-N326L.1	A-N326.1	A-N324	Circular	0.67	0	0	1	0	0	0	2.07	955.47	952.7	960.94	958.45	134	0.013	1.76	3.12
F-N818L.1	F-N818.1	F-N814	Circular	2	0	0	1	0	0	0	5.5	1044.14	1033.86	1051.35	1042.31	187	0.013	53.04	6.191
F-N028L.1	F-N028.1	F-N026	Circular	2	0	0	1	0	0	0	0.54	938.69	936.83	945.12	944.08	342	0.013	16.68	7.32
F-N136L.1	F-N136.1	F-N134	Circular	1.75	0	0	1	1.5	1.5	0	0.6	938.45	937.83	941.45	940.83	104	0.013	12.23	4.254
F-N134L.1	F-N134.1	F-N132	Trapezoidal	1.5	0	0	1	1.5	1.5	0	0.54	937.37	936.43	940.07	938.53	174	0.03	8.96	4.208
Link527	Node514	Node515	Natural	4	0	7bot15top4dpHalfGun	1	0	0	0	0.06	1018.64	1018.609	1022.66	1022.609	51	0.03	96.39	120.698
Link528	Node515	Node516	Natural	3	0	7bot13top3deepConc	1	0	0	0	-1.21	1018.609	1018.9	1022.609	1021.9	24	0.017	448.75	120.64
Link529	Node516	Node517	Natural	3	0	7bot13top3deepConc	1	0	0	0	0.07	1018.9	1018.89	1021.9	1021.89	15	0.017	105.22	119.673
Link530	Node517	Node518	Natural	3	0	7bot13top3deepConc	1	0	0	0	0.07	1018.89	1018.87	1021.89	1022.87	29	0.022	107.02	118.985
Link531	Node518	Node519	Natural	4	0	7bot15top4dpHalfGun	1	0	0	0	0.06	1018.87	1018.797	1022.87	1022.8	121	0.03	96.03	118.936

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Allen-Fruitdale Links																			
Link532	Node519	Node519.1	Natural	4	0	6bot12top4deepConc	1	0	0	0	0.42	1018.8	1018.55	1022.8	1023.3	60	0.017	348.78	118.864
Link534	Node520	A-N916	Natural	4	0	6bot12top4deepConc	1	0	0	0	-0.03	1018.47	1018.69	1023.47	1022.69	698	0.017	95.93	118.579
Link532.1	Node519.1	Node520	Special	6.9	0	0	1	0	0	0	0.4	1018.55	1018.47	1023.3	1023.47	20	0.024	118.74	118.838
Link536	A-N916	Node524	Natural	2.8	0	6bot12top2.8deepConc	1	0	0	0	0.13	1018.69	1018.33	1022.69	1021.2	283	0.017	115.12	117.954
Link537	Node524	Node525	Natural	2.8	0	6bot12top2.8deepConc	1	0	0	0	0.57	1018.33	1017.77	1021.2	1021.25	98	0.017	243.99	116.302
Link538	Node525	Node526	Natural	2.8	0	6bot12top2.8deepConc	1	0	0	0	-0.26	1017.77	1018.23	1021.25	1021.03	179	0.017	163.62	115.315
Link539	Node526	Node527	Natural	2.8	0	6bot12top2.8deepConc	1	0	0	0	0	1018.23	1018.23	1021.03	1021.03	147	0.017	10.21	114.877
Link540	Node527	Node528	Natural	2.8	0	6bot12top2.8deepConc	1	0	0	0	0.03	1018.23	1018.17	1021.03	1021.97	183	0.017	58.44	114.511
Link541	Node528	Node529	Rectangular	2.8	0	0	1	0	0	9	0.16	1018.17	1017.85	1021.97	1020.65	206	0.017	90.7	114.436
Link542	Node529	Node530	Natural	2.8	0	6bot12top2.8deepConc	1	0	0	0	0.63	1017.85	1016.98	1020.65	1019.78	139	0.017	255.36	114.326
Link543	Node530	Node531	Rectangular	2.8	0	0	1	0	0	10	0.08	1016.98	1016.97	1019.78	1019.77	12	0.017	75	113.664
Link544	Node531	Node531.1	Natural	2.8	0	6bot12top2.8deepConc	1	0	0	0	0.05	1016.97	1016.87	1019.77	1019.9	196	0.017	72.91	113.206
Link546	Node532	Node534	Natural	2.8	0	6bot12top2.8deepConc	1	0	0	0	0.04	1016.8	1016.69	1019.99	1019.77	274	0.017	64.67	112.551
Link544.1	Node531.1	Node532	Natural	2.8	0	6bot12tp2.8dpHalfGun	1	0	0	0	0.05	1016.87	1016.8	1019.9	1019.99	142	0.03	40.61	112.849
Link547	Node534	Node535	Natural	2.8	0	6bot12top2.8deepConc	1	0	0	0	-1.12	1016.69	1016.97	1019.77	1019.77	25	0.017	341.59	112.263
Link548	Node535	Node536	Natural	2.8	0	6bot12top2.8deepConc	1	0	0	0	0.1	1016.97	1016.78	1019.77	1019.65	189	0.017	102.34	111.997
Link549	Node536	Node536.1	Natural	2.8	0	6bot12top2.8deepConc	1	0	0	0	0.35	1016.78	1016.48	1019.65	1019.39	85	0.017	191.76	111.703
Link551	Node537	A-N440	Natural	2.8	0	6bot12top2.8deepConc	1	0	0	0	0.02	1016.1	1016	1019.06	1020.8	452	0.017	48.01	110.935
Link549.1	Node536.1	Node537	Natural	2.8	0	6bot12top2.8deepConc	1	0	0	0	0.35	1016.48	1016.1	1019.39	1019.06	108	0.017	191.46	111.375
Link553	Node539	Node540	Natural	3.4	0	6bot12top3.4deepConc	1	0	0	0	0.18	1015.75	1014.6	1019.21	1018.44	624	0.017	184.14	116.22
Link554	Node540	Node540.1	Natural	3.4	0	6bot12top3.4deepConc	1	0	0	0	-0.19	1014.6	1014.986	1018.44	1018.49	199	0.017	188.91	116.224
Link556	Node541	Node543	Natural	3	0	6bot12top3deepconc	1	0	0	0	-0.21	1015.042	1015.08	1018.542	1018.13	18	0.017	164.24	114.196
Link554.1	Node540.1	Node541	Rectangular	3.5	0	0	1	0	0	12	-0.19	1014.986	1015.042	1018.49	1018.542	29	0.017	197.53	115.01
Link557	Node543	Node544	Natural	3	0	6bot12top3deepconc	1	0	0	0	0.21	1015.08	1014.56	1018.13	1017.88	251	0.017	162.7	112.955
Link558	Node544	Node545	Natural	3.3	0	6bot12top3.3deepConc	1	0	0	0	-0.17	1014.56	1014.9	1017.88	1018.37	197	0.017	170.67	111.446
Link559	Node545	A-N450	Natural	3.4	0	8bot20top3.4deepNat	1	0	0	0	0.23	1014.9	1014.593	1018.37	1020.554	133	0.04	143.02	110.551
Link561	Node546	Node547	Natural	3.4	0	6bot12top3.4deepConc	1	0	0	0	0.24	1014.46	1014.45	1019.46	1017.98	4.2	0.017	209.3	123.21
Link562	Node547	Node548	Natural	3.4	0	6bot12top3.4deepConc	1	0	0	0	-0.17	1014.45	1014.67	1017.98	1018.07	127	0.017	178.53	115.718
Link563	Node548	Node549	Natural	2	0	8bot16top2deepNat	1	0	0	0	0.79	1014.67	1013.96	1018.07	1017.29	90	0.04	99.88	113.553
Link564	Node549	Node550	Rectangular	2	0	0	1	0	0	8	0.8	1013.96	1013.84	1017.29	1017.29	15	0.04	45.82	112.252
Link565	Node550	Node551	Natural	1.5	0	8bot11top1.5deepRck	1	0	0	0	0.02	1013.84	1013.8	1017.29	1015.3	257	0.045	7.31	111.836
Link566	Node551	Node552	Natural	1.5	0	7bot10top1.5deepRck	1	0	0	0	-0.09	1013.8	1013.99	1015.3	1019.99	213	0.045	13.68	110.578
Link567	Node552	A-N915	Special	9	0	0	1	0	0	0	0.12	1013.99	1013.91	1019.99	1019.91	69	0.024	146.2	110.58
Link569	Node555	Node556	Natural	2.9	0	8bot16top2.9deepRck	1	0	0	0	-0.02	1013.54	1013.58	1017.23	1016.57	180	0.045	26.7	111.097
Link570	Node556	Node557	Natural	2.9	0	6bot12top2.9deepConc	1	0	0	0	-0.12	1013.58	1013.71	1016.57	1016.79	110	0.017	116.89	111.101
Link571	Node557	A-N914	Natural	2.9	0	6bot12top2.9deepConc	1	0	0	0	0.12	1013.71	1013.48	1016.79	1018.85	197	0.017	116.18	111.106
Link573	A-N108-2	A-N108-2.1	Natural	2.9	0	6bot12top2.9deepConc	1	0	0	0	0.1	1013.28	1013.21	1016.24	1016.15	71	0.017	106.76	117.183
Link574	Node559	Node560	Natural	2.9	0	6bot12top2.9deepConc	1	0	0	0	8.17	1012.63	1012.14	1016.01	1016.14	6	0.017	971.68	136.257
Link575	Node560	Node561	Natural	2.9	0	6bot12top2.9deepConc	1	0	0	0	-4	1012.14	1012.38	1016.14	1015.55	6	0.017	680.04	0.155
Link578	Node560	A-N108-1	Circular	3	0	0	1	0	0	0	12.35	1012.14	1001.767	1016.14	1017.01	84	0.013	234.38	136.298
Allencheck	Node561	Node564	0	0	0	0	0	0	0	0	0	0	0	1015.55	1015.55	0	0	0	0
Link577	Node562	Node563	Special	2	0	0	1	0	0	4	-0.31	1012.52	1012.775	1015.42	1015.68	81	0.017	22.19	-0.893

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Allen-Fruitdale Links																			
Link580	Node563	Node565	Natural	2.8	0	6bot12top2.8dpConc	1	0	0	0	-0.32	1012.775	1013.04	1015.68	1015.91	84	0.017	181.29	-1.189
Link576	Node564	Node562	Natural	2.9	0	6bot12top2.9deepConc	1	0	0	0	0.32	1012.65	1012.52	1015.55	1015.42	41	0.017	191.46	-0.283
Link581	Node565	Node566	Natural	2.8	0	8bot16top2.9deepNat	1	0	0	0	0.09	1013.04	1012.91	1015.91	1016.89	143	0.04	57.56	-1.518
Link582	Node566	Node567	Natural	3.8	0	6bot18top3.8deepNat	1	0	0	0	0.42	1012.91	1012.07	1016.89	1015.91	200	0.04	188.9	-2.135
Link583	Node567	Node568	Natural	3.8	0	6bot18top3.8deepGun	1	0	0	0	-0.37	1012.07	1012.45	1015.91	1016.25	104	0.022	320.34	-3.077
Link584	Node568	Node569	Natural	2.9	0	6bot12top2.9deepConc	1	0	0	0	-0.21	1012.45	1012.85	1016.25	1015.98	190	0.017	156.01	-4.195
Link585	Node569	Node570	Natural	2.9	0	6bot12top2.9deepConc	1	0	0	0	0.25	1012.85	1012.54	1015.98	1015.81	126	0.017	168.65	-4.809
Link586	Node570	Node571	Natural	2.9	0	6bot12top2.9deepConc	1	0	0	0	-0.1	1012.54	1012.66	1015.81	1015.62	118	0.017	108.43	-5.055
Link587	Node571	Node572	Natural	2.9	0	6bot12top2.9deepConc	1	0	0	0	0	1012.66	1012.67	1015.62	1015.57	222	0.017	22.82	-5.667
Link588	Node572	A-N912	Natural	2.9	0	6bot12top2.9deepConc	1	0	0	0	0.06	1012.67	1012.58	1015.57	1016.08	147	0.017	84.13	-6.436
Link590	Node573	Node574	Natural	3.1	0	Link 590	1	0	0	0	0.21	1012.34	1011.93	1015.84	1015.06	194	0.035	83.75	15.137
Link591	Node574	Node575	Natural	2.7	0	6bot12top2.7deepConc	1	0	0	0	0.01	1011.93	1011.91	1015.06	1014.7	166	0.017	33.56	14.698
Link592	Node575	Node576	Natural	2.7	0	6bot12top2.7deepConc	1	0	0	0	0.37	1011.91	1011.12	1014.7	1015.95	215	0.017	185.32	14.61
Link593	Node576	Node577	Special	6.9	0	0	1	0	0	0	-0.4	1011.12	1011.2	1015.95	1016.03	20	0.024	118.74	14.232
Link594	Node577	Node578	Natural	2.7	0	6bot12top2.7deepConc	1	0	0	0	-0.43	1011.2	1011.64	1016.03	1014.44	103	0.017	199.82	14.018
Link595	Node578	Node579	Rectangular	2.8	0	0	1	0	0	6	0.18	1011.64	1011.54	1014.44	1014.94	55	0.017	60.71	13.729
Link596	Node579	Node580	Natural	3.4	0	6bot12top3.4deepConc	1	0	0	0	0.07	1011.54	1010.99	1014.94	1015.99	818	0.017	111.22	13.484
Link597	Node580	Node581	Rectangular	5	0	0	1	0	0	7	0.46	1010.99	1010.925	1015.99	1015.925	14	0.017	268.08	13.196
Link598	Node581	Node582	Natural	5	0	6bot12top5deepNat	1	0	0	0	0.45	1010.925	1010.113	1015.925	1015.113	179	0.04	210.04	13.161
Link599	Node582	Node583	Rectangular	5	0	0	1	0	0	7	0.45	1010.113	1010.041	1015.113	1015.041	16	0.04	112.17	13.031
Link600	Node583	Node584	Natural	5	0	6bot12top5deepNat	1	0	0	0	0.45	1010.041	1009.86	1015.041	1014.86	40	0.04	209.78	12.989
Link601	Node584	Node585	Natural	3.9	0	6bot12top3.9deepNat	1	0	0	0	0	1009.36	1009.37	1014.86	1013.28	383	0.04	11.32	12.661
Link602	Node585	Node586	Natural	3.9	0	8bot14top3.9deepNat	1	0	0	0	0.2	1009.37	1008.986	1013.28	1012.89	192	0.04	127.93	12.371
Link604	Node586	Node588	Natural	3.9	0	6bot12top3.9deepRck	1	0	0	0	0.2	1008.986	1008.84	1012.89	1012.79	73	0.04	88.1	12.247
Link607	Node587	Node587.2	Natural	4.2	0	6bot12top4.2deepNat	1	0	0	0	-0.06	1008.77	1008.93	1013.42	1013.3	254	0.04	61.69	12.06
Link603	Node588	Node588.2	Natural	3.9	0	6bot12top3.9deepRck	1	0	0	0	0.03	1008.84	1008.8	1012.79	1013.8	154	0.04	31.75	12.184
Link603.1	Node588.1	Node587	Natural	3.9	0	6bot12top3.9deepRck	1	0	0	0	0.03	1008.79	1008.77	1013.79	1013.42	78	0.045	31.55	12.106
Link603.2	Node588.2	Node588.1	Rectangular	5	0	6bot12top3.9deepRck	1	0	0	8	0.03	1008.8	1008.79	1013.8	1013.79	30	0.04	36.16	12.135
Link610	Node591	Node594	Natural	4.2	0	6bot12tp4.2dpNatRck	1	0	0	0	-0.01	1009	1009.05	1013.26	1014.05	337	0.042	28.51	12.019
Link607.1	Node587.1	Node591	Natural	4.2	0	6bot12top4.2deepNat	1	0	0	0	-0.06	1008.94	1009	1013.3	1013.26	95	0.04	61.77	12.026
Link607.2	Node587.2	Node587.1	Rectangular	3.5	0	6bot12top4.2deepNat	1	0	0	8	-0.09	1008.93	1008.94	1013.3	1013.3	11	0.04	35.76	12.027
Link611	Node594	Node594.1	Special	6.9	0	0	1	0	0	0	0.05	1009.05	1009.04	1014.05	1014.03	20	0.024	41.98	12.044
Link614	Node595	Node595.4	Natural	4.8	0	8bot16top4.8deepNat	1	0	0	0	0.14	1008.82	1008.66	1013.63	1014.66	111	0.04	161.79	12.153
Link611.1	Node594.1	Node594.2	Natural	4.8	0	6bot12tp4.8dpNatRck	1	0	0	0	0.07	1009.04	1008.89	1014.03	1013.76	221	0.042	73.23	12.063
Link611.1.1	Node594.2	Node595	Natural	4.8	0	8bot16top4.8deepNat	1	0	0	0	0.06	1008.89	1008.82	1013.76	1013.63	111	0.04	107.01	12.109
Link621	A-N910	A-N044	Natural	4.6	0	8bot16top4.6deepNat	1	0	0	0	-0.02	1008.24	1008.27	1012.86	1013.41	163	0.04	54.39	42.268
Link614.1	Node595.1	A-N910	Natural	4.6	0	8bot16top4.6deepNat	1	0	0	0	0.15	1008.3	1008.24	1014.3	1012.86	41	0.04	153.38	12.634
Link614.2	Node595.2	Node595.1	Rectangular	6	0	0	1	0	0	12	0.18	1008.32	1008.3	1014.32	1014.3	11	0.04	181.05	12.573
Link614.3	Node595.3	Node595.2	Natural	6	0	10bot16top6deepNat	1	0	0	0	0.15	1008.64	1008.32	1014.64	1014.32	216	0.04	248.76	12.273
Link614.4	Node595.4	Node595.3	Special	8	0	0	1	0	0	0	0.15	1008.66	1008.64	1014.66	1014.64	13	0.024	114.85	12.183
Link622	Node769	Node603	Natural	4.3	0	5bot10top4.3deepGun	1	0	0	0	0.1	1008.61	1008.22	1013.41	1012.53	399	0.022	113.71	9.01
Link625.1	A-N306.1	A-N306.1.1	Circular	4	0	0	1	0	0	0	1.27	932.61	919.57	948.02	944.44	1030.37	0.013	161.59	66.897

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Allen-Fruitdale Links																			
A-N224L.1	A-N224.1	A-N222	Circular	2	0	0	1	0	0	0	0.99	905.81	903.09	913.62	911.65	275	0.013	22.5	23.769
Link642	Node607	Node607.1	Circular	1.5	0	0	1	0	0	0	2.12	922.66	914.79	936.81	927.82	371.2	0.013	15.3	12.886
A-N276L.1	A-N276.1	A-N266	Circular	2.5	0	0	1	0	0	0	0.26	909.538	908.04	927.58	916.9	581	0.013	20.83	34.661
A-N282L.1	A-N282.1	A-N276.1	Circular	2.5	0	0	1	0	0	0	0.5	913.46	909.54	926.13	927.58	784.37	0.013	29	20.556
Link345	Node610	Node345	Natural	4	0	5bot5top4deepConc	1	0	0	0	0	950.37	950.37	956.15	959.46	32	0.017	7.37	-41.467
F-N132L.1	F-N132.1	F-N130	Circular	2	0	0	1	0	0	0	0.88	932.93	925.32	937.42	935.02	868.84	0.013	21.17	8.392
A-N026L.1	A-N026.1	A-N024-1	Natural	0	0	NS_A-N026L	1	0	0	0	0.17	934.29	934.15	947.66	946.55	83	0.014	2793.6	902.941
Link449	Node615	Node441	Natural	3.8	0	8bot18top3.8deepRock	1	0	0	0	0	1028.67	1028.67	1032.47	1032.5	135	0.045	9.25	12.257
F-N054L.1	F-N054.1	F-N052	Natural	0	0	NS_F-N054L	1	0	0	0	1.8	998.47	994.27	1029.67	1029.52	233	0	168350.64	848.597
A-N266L.1	A-N266.1	A-N262	Circular	3.5	0	0	1	0	0	0	0.69	906.38	904.27	918.21	919.87	306	0.013	83.55	56.961
Link642.1	Node607.1	A-N266.1	Circular	2	0	0	1	0	0	0	2.12	914.79	906.38	927.82	918.21	397	0.013	32.93	12.872
Link645	Node621	Node622	Circular	2	0	0	1	0	0	0	4.17	1051.71	1043.13	1057.78	1049.64	206	0.012	50.02	4.263
Link646	Node622	A-N444	Circular	2	0	0	1	0	0	0	16.24	1043.13	1022.83	1049.64	1030	125	0.013	91.17	4.226
A-N442L	Node623	A-N440	Circular	2	0	0	1	0	0	0	0.4	1017.5	1017.432	1021	1020.8	17	0.013	14.31	5.012
A-N926L.1	Node392.1	A-N936	Rectangular	3	0	0	1	1	1	12	0.01	943.91	943.9	947.57	947.4	117	0.013	42.96	87.371
Link650	Node625	Node626	Trapezoidal	5.17	0	0	1	0	0	8	0.01	941.6	941.599	946.77	946.77	10	0.017	62.17	-1213.646
Link651	Node626	Node627	Trapezoidal	11.17	0	0	1	0	0	8	0.01	935.6	935.599	946.77	946.77	10	0.017	160.5	-607.091
Link652	Node627	Node628	Circular	4	0	0	1	0	0	0	0	935.6	935.6	946.77	945.5	202	0.024	2.46	78.024
Link653	Node628	Node629	Circular	4	0	0	1	0	0	0	-93.33	935.6	941.2	945.5	945.5	6	0.017	1061.2	77.036
Link654	Node629	Node630	Rectangular	3	0	0	1	0	0	2	0.25	941.2	941.1	945.5	945.5	40	0.017	18.65	77.317
A-N938L	Node630	R-N112	Circular	3	0	0	1	1	1	8	6.46	941.1	878.203	945.5	912.91	972.99	0.024	91.86	74.745
Link655	A-N344	Node631.1	Circular	2	0	0	1	0	0	0	3.21	968.3	954.77	971.3	956.77	421.88	0.013	40.51	34.706
Link655.1	Node631.1	Node385	Natural	1	0	3bot5top1deepNat	1	0	0	0	3.21	954.77	951.14	956.77	952.84	113	0.04	20.72	34.6
Link658	Node633	Node633.2	Circular	1	0	0	1	0	0	0	0.61	947.32	943.76	951.65	950.77	586.03	0.013	2.78	4.251
Link658.1	Node633.1	Node633.3	Circular	1.5	0	0	1	0	0	0	0.61	938.68	935.29	949.52	948.68	558	0.013	8.19	8.218
Link625.1.1	A-N306.1.1	A-N008	Circular	4	0	0	1	0	0	0	1.27	919.57	914.31	944.44	943	415.26	0.013	161.67	66.366
A-N054L.1	A-N054.1	A-N052	Circular	2	0	0	1	0	0	0	0.63	952.64	951.699	958.56	956.75	150.27	0.013	17.9	12.52

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Gilbert Links																			
G-L002	G-N002	G-N001	Circular	2.5	0	0	1	0	0	0	0.1	894.169	893.823	904.322	935	346.45	0.013	12.96	16.573
G-L003	G-N003	G-N002	Circular	2.5	0	0	1	0	0	0	0.1	894.3	894.169	904.85	904.322	130.298	0.013	13.01	13.437
G-L004	G-N004	G-N003	Circular	2.5	0	0	1	0	0	0	0.12	894.435	894.3	904.74	904.85	111.04	0.013	14.3	13.444
G-L005	G-N005	G-N004	Circular	2.5	0	0	1	0	0	0	0.1	894.678	894.435	903.839	904.74	243.346	0.013	12.96	13.602
G-L006	G-N006	G-N005	Circular	2.5	0	0	1	0	0	0	0.1	894.837	894.678	902.44	903.839	159.023	0.013	12.97	13.688
G-L007	G-N007	G-N007.2	Circular	1.333	0	0	1	0	0	0	0.3	895.9	895.78	901.2	901.34	40.42	0.013	4.18	4.017
G-L034	G-N034	G-N035	Circular	3.5	0	0	1	0	0	0	0.5	895	893	907.901	940	401.866	0.013	70.98	68.983
G-L014	G-N014	G-N033	Circular	3.5	0	0	1	0	0	0	0.14	896.038	895.9	901.938	903.614	100.466	0.01	48.47	65.26
G-L013	G-N013	G-N014	Circular	1.75	0	0	1	0	0	0	0.51	897.264	896.038	901.914	901.938	240.11	0.013	11.32	4.822
G-L012	G-N012	G-N013	Circular	1.75	0	0	1	0	0	0	0.41	898.45	897.264	901.654	901.914	289.598	0.013	10.14	2.088
G-L011	G-N011	G-N012	Circular	1.75	0	0	1	0	0	0	0.41	899.068	898.45	901.918	901.654	151.274	0.013	10.13	2.347
G-L015	G-N015	G-N014	Circular	3	0	0	1	0	0	0	0.17	896.75	896.038	904.711	901.938	411.501	0.013	27.74	26.341
G-L016	G-N016	G-N015	Circular	3	0	0	1	0	0	0	0.2	897.519	896.75	906.119	904.711	392.953	0.013	29.51	23.72
G-L032	G-N032	G-N014	Circular	3	0	0	1	0	0	0	0.08	896.512	896.038	905.362	901.938	628.482	0.01	23.81	21.75
G-L031	G-N031	G-N032	Circular	3	0	0	1	0	0	0	0.32	898.514	896.512	905.114	905.362	629.068	0.01	48.91	21.527
G-L017	G-N017	G-N016	Circular	2.5	0	0	1	0	0	0	0.17	898.419	897.519	904.756	906.119	534.397	0.013	16.83	16.515
G-L018	G-N018	G-N017	Circular	2.5	0	0	1	0	0	0	1.24	899.837	898.419	905.337	904.756	114.801	0.013	45.59	17.532
G-L030	G-N030	G-N031	Circular	3	0	0	1	0	0	0	0.25	900.322	898.514	906.872	905.114	728.221	0.01	43.2	22.182
G-L029	G-N029	G-N030	Circular	3	0	0	1	0	0	0	0.45	904.14	900.322	915.876	906.872	852.705	0.01	58.02	19.433
G-L028	G-N028	G-N029	Circular	2.5	0	0	1	0	0	0	0.45	905.21	904.14	913.142	915.876	238.079	0.01	35.75	12.745
G-L026	G-N026	G-N027	Circular	2.5	0	0	1	0	0	0	0.43	908.369	907.093	916.977	915.293	293.898	0.01	35.13	12.404
G-L020	G-N020	G-N019	Circular	2	0	0	1	0	0	0	0.18	902.488	902.266	907.588	907.166	125.554	0.013	9.51	1.816
G-L022	G-N022	G-N021	Circular	2	0	0	1	0	0	0	0.39	906.399	904.609	911.799	908.009	462.791	0.013	14.07	1.786
G-L023	G-N023	G-N022	Circular	2	0	0	1	0	0	0	-0.11	906.188	906.399	912.428	911.799	190.431	0.013	7.53	1.862
G-L027	G-N027	G-N028	Circular	2.5	0	0	1	0	0	0	0.45	907.093	905.21	915.293	913.142	417.847	0.01	35.8	12.648
G-L038	G-N038	G-N055	Circular	3.5	0	0	1	0	0	0	1.32	896.803	895.963	908.953	908.804	63.555	0.013	115.67	67.84
G-L054	G-N054	G-N038	Circular	3.5	0	0	1	0	0	0	0.45	897.559	896.803	910.176	908.953	167.789	0.013	67.53	61.496
G-L053	G-N053	G-N054	Circular	3.5	0	0	1	0	0	0	0.37	899.651	897.559	907.551	910.176	571.412	0.013	60.88	61.415
G-L052	G-N052	G-N053	Circular	3.5	0	0	1	0	0	0	0.53	904.675	899.651	912.875	907.551	952.764	0.013	73.06	53.713
G-L051	G-N051	G-N052	Circular	3.5	0	0	1	0	0	0	0.31	905.65	904.675	914.862	912.875	317.89	0.013	55.72	50.227
G-L050	G-N050	G-N051	Circular	3.5	0	0	1	0	0	0	0.54	906.705	905.65	915.305	914.862	196.051	0.013	73.8	42.12
G-L049	G-N049	G-N050	Circular	3.5	0	0	1	0	0	0	0.55	909.32	906.705	917.607	915.305	473.223	0.013	74.79	42.044
G-L048	G-N048	G-N049	Circular	3.5	0	0	1	0	0	0	0.5	910.96	909.32	918.285	917.607	328.022	0.013	71.14	42.363
G-L047	G-N047	G-N048	Circular	3	0	0	1	0	0	0	0.5	913.059	910.96	920.337	918.285	419.446	0.013	47.18	42.309
G-L045	G-N045	G-N046	Circular	2.25	0	0	1	0	0	0	0.95	917.309	914.009	926.831	922.159	346.058	0.013	30.24	32.501
G-L044	G-N044	G-N045	Circular	2.25	0	0	1	0	0	0	0.96	918.96	917.309	929.572	926.831	172.035	0.013	30.34	32.753
G-L043	G-N043	G-N044	Circular	2.25	0	0	1	0	0	0	0.98	919.311	918.96	929.561	929.572	35.696	0.013	30.71	32.97
G-L042	G-N042	G-N043	Circular	2	0	0	1	0	0	0	3.47	935.85	919.311	939.05	929.561	476.296	0.013	42.16	33.022
G-L041	G-N041	G-N042	Circular	2	0	0	1	0	0	0	0.73	938.839	935.85	941.34	939.05	411.825	0.013	19.27	21.135
G-L040	G-N040	G-N040.1	Circular	2	0	0	1	0	0	0	3.2	961.19	940.19	964.29	942.72	655.39	0.013	40.49	13.834
G-L068	G-N068	G-N069	Circular	3.5	0	0	1	0	0	0	1.16	895.688	892.349	909.438	930	287.794	0.013	108.37	55.962

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Gilbert Links																			
G-L067	G-N067	G-N068	Circular	3.5	0	0	1	0	0	0	1.42	900.651	895.688	910.157	909.438	349.396	0.013	119.91	56.09
G-L066	G-N066	G-N067	Circular	3.5	0	0	1	0	0	0	1.41	910.377	900.651	916.377	910.157	690.081	0.013	119.44	47.881
G-L065	G-N065	G-N066	Circular	3	0	0	1	0	0	0	0.47	913.409	910.377	918.685	916.377	648.618	0.013	45.6	39.47
G-L064	G-N064	G-N065	Circular	2.5	0	0	1	0	0	0	0.52	916.342	913.409	921.972	918.685	567.41	0.013	29.49	32.244
G-L063	G-N063	G-N064	Circular	2	0	0	1	0	0	0	0.64	918.529	916.342	923.529	921.972	340.172	0.013	18.14	20.268
G-L062	G-N062	G-N063	Circular	2	0	0	1	0	0	0	0.48	920	918.529	924.537	923.529	307.724	0.013	15.64	20.305
G-L061	G-N061	G-N062	Circular	2	0	0	1	0	0	0	0.91	924.95	920	928.6	924.537	546.902	0.013	21.52	20.342
G-L060	G-N060	G-N061	Circular	2	0	0	1	0	0	0	0.2	925.584	924.95	930.664	928.6	315.085	0.013	10.15	16.3
G-L075	G-N075	G-N076	Circular	2.5	0	0	1	0	0	0	0.58	915.71	914.5	924.008	929.5	210.137	0.013	31.12	12.467
G-L074	G-N074	G-N075	Circular	2.5	0	0	1	0	0	0	0.57	918.731	915.71	922.561	924.008	525.78	0.013	31.09	8.929
G-L073	G-N073	G-N074	Circular	2	0	0	1	0	0	0	0.02	918.798	918.731	924.378	922.561	285.356	0.013	3.47	9.063
G-L072	G-N072	G-N073	Circular	1.75	0	0	1	0	0	0	0.8	921.336	918.798	926.796	924.378	319.18	0.013	14.13	9.091
G-L071	G-N071	G-N072	Circular	1.5	0	0	1	0	0	0	0.94	923.89	921.336	929.427	926.796	272.774	0.013	10.16	5.497
G-L070	G-N070	G-N071	Circular	1.5	0	0	1	0	0	0	0.93	926.546	923.89	931.876	929.427	285.407	0.013	10.13	5.59
G-L091	G-N091	G-N092	Circular	1	0	0	1	0	0	0	0.47	913.617	912	921.867	930	343.328	0.01	3.18	7.845
G-L084	G-N084	G-N085	Circular	1	0	0	1	0	0	0	0.32	913.776	913.269	920.075	919.569	157.601	0.015	1.75	3.291
G-L083	G-N083	G-N084	Circular	1	0	0	1	0	0	0	0.53	915.564	913.776	921.914	920.075	340.009	0.015	2.24	3.291
G-L099	G-N099	G-N100	Circular	2	0	0	1	0	0	0	0.5	912.275	910.419	921.011	930	370.78	0.013	16.01	15.984
G-L098	G-N098	G-N099	Circular	2	0	0	1	0	0	0	0.5	914.174	912.275	921.774	921.011	379.911	0.013	15.99	16.188
G-L097	G-N097	G-N098	Circular	2	0	0	1	0	0	0	1.26	917.803	914.174	923.22	921.774	288.79	0.013	25.36	16.317
G-L097B	G-N097	G-N101	Circular	3.5	0	0	1	0	0	0	0.48	915.72	913.958	923.22	924.807	370	0.013	69.43	77.153
G-L090B	G-N090	G-N097	Circular	3	0	0	1	0	0	0	0.32	916.906	915.72	924.56	923.22	365	0.013	38.02	40.958
G-L082	G-N082	G-N083	Circular	1	0	0	1	0	0	0	0.61	917.772	915.564	923.972	921.914	364.432	0.015	2.4	3.291
G-L082B	G-N082	G-N090	Circular	1.25	0	0	1	0	0	0	0.3	918.072	916.906	923.972	924.56	389.989	0.013	3.53	8.864
G-L081	G-N081	G-N082	Circular	1	0	0	1	0	0	0	0.47	918.859	917.772	926.507	923.972	232.147	0.013	2.44	5.106
G-L080	G-N080	G-N081	Circular	1	0	0	1	0	0	0	0.47	920.337	918.859	928.687	926.507	314.06	0.013	2.44	4.496
G-L079	G-N079	G-N080	Circular	1	0	0	1	0	0	0	0.54	923.19	920.337	932.045	928.687	528.786	0.013	2.62	4.32
G-L089	G-N089	G-N089.1	Circular	2.5	0	0	1	0	0	0	0.57	928.77	919.06	937.47	926.9	1691.48	0.01	40.4	27.893
G-L077	G-N077	G-N078	Circular	1	0	0	1	0	0	0	0.54	927.7	926.202	936.289	935.202	278.446	0.013	2.61	3.141
G-L088	G-N088	G-N089	Circular	2.25	0	0	1	0	0	0	0.95	932.871	928.769	939.72	937.47	430.199	0.01	39.31	10.821
G-L087	G-N087	G-N087.1	Circular	1.75	0	0	1	0	0	0	0.75	939.27	937.16	946.37	944.17	279.79	0.01	17.89	11.156
G-L093	G-N093	G-N093.1	Circular	1.75	0	0	1	0	0	0	0.85	935.41	931.72	941.46	938.77	435.34	0.013	14.59	8.566
G-L094	G-N094	G-N095	Circular	2.25	0	0	1	0	0	0	0.4	927.828	926.809	935.93	934.559	254.16	0.013	19.61	22.803
G-L095	G-N095	G-N096	Circular	2.5	0	0	1	0	0	0	0.73	926.809	922.398	934.559	931	602.684	0.013	35.09	27.405
G-L096	G-N096	G-N096.1	Circular	2.5	0	0	1	0	0	0	0.56	922.4	919.09	931	927.2	590.13	0.013	30.72	36.372
G-L101	G-N101	G-N102	Circular	3.5	0	0	1	0	0	0	0.45	913.958	913.283	924.807	923.246	150.242	0.013	67.44	87.099
G-L107	G-N101	G-N107	Circular	1.25	0	0	1	0	0	0	-2.3	913.958	922.726	924.807	928.126	382.037	0.013	9.79	-4.091
G-L102	G-N102	G-N103	Circular	3.5	0	0	1	0	0	0	0.84	913.283	907	923.246	930	744.562	0.013	92.42	86.786
G-L110	G-N110	G-N112	Circular	2	0	0	1	0	0	0	1.92	908	900	921.595	930	416.78	0.013	31.34	20.187
G-L109	G-N109	G-N110	Circular	2	0	0	1	0	0	0	2.46	916	908	924.151	921.595	324.949	0.013	35.5	20.431
G-L106	G-N106	G-N108	Circular	1.5	0	0	1	0	0	0	0.63	921.387	919.308	927.087	926.508	328.996	0.013	8.35	10.687
G-L105	G-N105	G-N106	Circular	1.25	0	0	1	0	0	0	0.39	923.537	921.387	930.187	927.087	556.181	0.013	4.02	5.756

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Gilbert Links																			
G-L104	G-N104	G-N105	Circular	1	0	0	1	0	0	0	0.46	924.832	923.537	930.532	930.187	280.745	0.013	2.42	3.925
G-L127	G-N127	G-N128	Circular	1.5	0	0	1	0	0	0	1.36	948.471	940.94	950.971	943.939	554.036	0.013	12.25	1.535
G-L128	G-N128	G-N129	Circular	1.5	0	0	1	0	0	0	1.13	940.94	937.89	943.939	941.39	270.72	0.013	11.15	1.474
G-L129	G-N129	G-N130	Circular	2	0	0	1	0	0	0	0.82	937.89	934.785	941.39	943.185	379.596	0.013	20.46	6.089
G-L130	G-N130	G-N131	Circular	2	0	0	1	0	0	0	0.39	934.785	933.549	943.185	943.964	315.982	0.013	14.15	19.335
G-L131	G-N131	G-N132	Circular	2	0	0	1	0	0	0	0.39	933.549	932.75	943.964	946	202.563	0.013	14.21	19.135
G-L124	G-N124	G-N125	Circular	3	0	0	1	0	0	0	1.38	987.869	984.3	994.319	989.3	257.871	0.013	78.47	41.545
G-L138	G-N138	G-N136	Circular	2.5	0	0	1	0	0	0	1.48	1045.54	1040.5	1051.54	1052.28	340.075	0.013	49.93	12.791
G-L136	G-N136	G-N139	Circular	3	0	0	1	0	0	0	3.72	1040.5	1022.83	1052.28	1035.13	474.536	0.013	128.71	28.746
G-L140	G-N140	G-N141	Circular	3	0	0	1	0	0	0	1.01	1019.2	1016	1029.57	1040	316.888	0.013	67.03	28.223
G-L135	G-N135	G-N136	Circular	2.5	0	0	1	0	0	0	3.39	1059.26	1040.5	1066.41	1052.28	554.061	0.013	75.47	19.057
G-L144B	G-N144B	G-N148	Circular	2.5	0	0	1	0	0	0	2.38	1073.5	1070.28	1080.09	1076.31	135.235	0.013	63.29	46.966
G-L148	G-N148	G-N153	Circular	3	0	0	1	0	0	0	1.66	1070.28	1063.83	1076.31	1070.83	388.293	0.013	85.96	58.617
G-L153	G-N153	G-N154	Circular	2.5	0	0	1	0	0	0	1.23	1063.83	1063	1070.83	1069.66	67.725	0.013	45.41	73.242
G-L154	G-N154	G-N154.1	Circular	2.5	0	0	1	0	0	0	1.36	1063	1058.4	1069.66	1065.45	338.55	0.013	47.81	68.453
G-L155	G-N155	G-N156	Circular	3.5	0	0	1	0	0	0	5.43	1046	1022	1054.11	1055	442.393	0.013	234.34	107.906
G-L145	G-N145	G-N146	Circular	1	0	0	1	0	0	0	4.06	1097.15	1092.86	1102.75	1097.86	105.725	0.013	7.18	11.713
Link661	G-N145	G-N144B	Circular	2	0	0	1	0	0	0	4.11	1097.15	1073.5	1102.75	1080.09	575.98	0.013	45.84	41.136
G-L146	G-N146	G-N147	Circular	1.25	0	0	1	0	0	0	4.15	1092.86	1078	1097.86	1084.14	357.906	0.013	13.16	0
G-L147	G-N147	G-N147.1	Circular	3	0	0	1	0	0	0	4.1	1078	1074.51	1084.14	1080.6	85.15	0.013	135.03	0
G-L149	G-N149	G-N151	Circular	1.5	0	0	1	0	0	0	4.33	1123.59	1098.54	1131.04	1104.24	578.51	0.014	20.3	17.814
G-L150	G-N150	G-N151	Circular	1	0	0	1	0	0	0	-2.35	1099	1100.99	1106.53	1104.24	84.805	0.013	5.46	3.77
G-L152	G-N152	G-N153	Circular	2	0	0	1	0	0	0	3.75	1091.93	1063.83	1096.68	1070.83	748.571	0.013	43.83	28.976
G-L158	G-N158	G-N159	Circular	4	0	0	1	0	0	0	0.7	1099.78	1096.23	1109.98	1106.36	509.879	0.024	64.92	37.204
G-L159	G-N159	G-N159.1	Circular	3.5	0	0	1	0	0	0	0.85	1096.23	1093.5	1106.36	1101.96	321	0.013	92.78	36.873
G-L167	G-N167	G-N168	Circular	3.5	0	0	1	0	0	0	3.32	1089.02	1077.23	1097.57	1086.54	355.152	0.013	183.31	68.994
G-L168	G-N168	G-N168.1	Circular	3	0	0	1	0	0	0	4.39	1077.23	1065.17	1086.54	1078.77	275	0.013	139.68	68.773
G-L166	G-N166	G-N167	Circular	1.75	0	0	1	0	0	0	3.1	1106.06	1090.7	1113.86	1097.57	494.827	0.01	36.29	5.13
G-L165	G-N165	G-N166	Circular	1.75	0	0	1	0	0	0	3.33	1121.64	1106.06	1125.39	1113.86	468.062	0.01	37.58	5.005
G-L164	G-N164	G-N165	Circular	1.75	0	0	1	0	0	0	4.65	1133.53	1121.64	1139.63	1125.39	255.89	0.01	44.4	5.001
G-L163	G-N163	G-N164	Circular	1.5	0	0	1	0	0	0	2.47	1144	1133.53	1154.15	1139.63	423.315	0.01	21.48	5.611
G-L199	G-N199	G-N200	Circular	1.5	0	0	1	0	0	0	2.44	1103.4	1095.29	1109.4	1099.89	332.268	0.01	21.33	7.517
G-L200	G-N200	Node42	Circular	1.5	0	0	1	0	0	0	3.04	1095.29	1080.11	1099.89	1089.11	499.416	0.01	23.81	10.76
G-L181	G-N181	Node42	Circular	2	0	0	1	0	0	0	7.24	1084.62	1080.11	1090.79	1089.11	62.329	0.013	60.85	38.285
G-L180	G-N180	G-N181	Circular	2	0	0	1	0	0	0	4.51	1097.72	1080.59	1104.83	1090.79	379.608	0.013	48.06	34.42
G-L179	G-N179	G-N180	Circular	2	0	0	1	0	0	0	4.52	1104.9	1097.72	1109.8	1104.83	158.909	0.013	48.09	34.484
G-L178	G-N178	G-N179	Circular	2	0	0	1	0	0	0	3.69	1110.02	1104.9	1114.67	1109.8	138.655	0.013	43.47	30.754
G-L195	G-N195	G-N178	Circular	2.5	0	0	1	0	0	0	1.91	1113.73	1110.02	1118.93	1114.67	194.212	0.013	56.69	14.997
G-L177	G-N177	G-N178	Circular	1.5	0	0	1	0	0	0	4.27	1130.23	1110.02	1134.72	1114.67	472.787	0.013	21.72	16.224
G-L194	G-N194	G-N177	Circular	1.5	0	0	1	0	0	0	2.98	1137.39	1130.23	1142.96	1134.72	240.604	0.013	18.12	4.668
G-L191B	G-N191	G-N192	Circular	1.17	0	0	1	0	0	0	8.57	1139.87	1121.28	1144.87	1135.48	217.043	0.013	15.85	9.701
G-L191	G-N191	G-N193	Circular	1.17	0	0	1	0	0	0	1.07	1139.7	1138.14	1144.87	1144.98	145.44	0.013	5.61	4.691

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Gilbert Links																			
G-L176	G-N176	G-N177	Circular	1.5	0	0	1	0	0	0	3.91	1141.17	1130.23	1149.42	1134.72	279.819	0.01	27	9.408
G-L173	G-N173	G-N176	Circular	1	0	0	1	0	0	0	10.01	1169.01	1141.17	1176.54	1149.42	278.055	0.01	14.66	3.38
G-L172	G-N172	G-N173	Circular	1	0	0	1	0	0	0	10.42	1193.08	1169.01	1199.88	1176.54	230.906	0.01	14.95	3.381
G-L171	G-N171	G-N172	Circular	1	0	0	1	0	0	0	14.74	1246.27	1193.08	1253.12	1199.88	360.766	0.01	17.78	1.939
G-L170	G-N170	G-N171	Circular	1	0	0	1	0	0	0	12.9	1284.4	1246.27	1291.3	1253.12	295.51	0.01	16.64	1.94
G-L175	G-N175	G-N176	Circular	1	0	0	1	0	0	0	8.09	1158.84	1141.17	1163.84	1149.42	218.496	0.01	13.17	2.449
G-L174	G-N174	G-N175	Circular	1	0	0	1	0	0	0	10.01	1183.15	1158.84	1188.18	1163.84	242.969	0.01	14.65	2.45
G-L190	G-N190	G-N190.1	Circular	1.25	0	0	1	0	0	0	4.99	1168.27	1152.96	1174.97	1158.84	306.98	0.013	14.43	10.721
G-L254	G-N254	G-N255	Natural	0	0	G-X254	1	0	0	0	2.45	938	936	953	951	81.773	0.035	15305.67	721.792
G-L226	G-N226	G-N226.1	Natural	0	0	G-X226	1	0	0	0	6.62	1072	1063	1087	1078.7	136	0.035	13174.18	348.191
G-L230C	G-N230	G-N231	Rectangular	6	0	0	1	0	0	7	0.9	1034	1033.5	1060	1055	55.467	0.014	582.72	471.163
G-L230O	G-N230	G-N231	Trapezoidal	2	0	0	1	1	1	50	0	1042	1042	1060	1055	55.467	0.02	37.07	0
G-L231	G-N231	G-N156	Natural	0	0	G-X231	1	0	0	0	3.69	1033.5	1022	1055	1055	312.031	0.035	77386.24	471.328
R-L011	G-N001	N300	Natural	0	0	R-X011	1	0	0	0	0.12	874.87	873	935	930	1541.11	0.014	319191.29	-6045.195
R-L010	G-N035	G-N001	Natural	0	0	R-X010	1	0	0	0	0.12	876.45	874.87	940	935	1312.81	0.014	527470.22	3491.997
R-L009	G-N056	G-N035	Natural	0	0	R-X009	1	0	0	0	0.12	878.95	876.45	945	940	2058.5	0.014	554015.24	3445.982
R-L008	G-N069	G-N056	Natural	0	0	R-X008	1	0	0	0	0.12	880.08	878.95	930	945	937.58	0.014	83954.73	3397.155
G-L057	G-N057	G-N058	Circular	1	0	0	1	0	0	0	0.84	937.886	933.618	942.286	937.278	509.129	0.013	3.26	4.154
R-L006	G-N086	G-N277	Natural	0	0	R-X006	1	0	0	0	0.12	882.94	882.04	930	930	737.47	0.014	246248.33	3038.311
R-L005	G-N092	G-N086	Natural	0	0	R-X005	1	0	0	0	0.12	883.43	882.94	930	930	406	0.014	214020.11	3040.362
R-L004	G-N100	G-N092	Natural	0	0	R-X004	1	0	0	0	0.12	883.92	883.43	930	930	410.26	0.014	262260.07	3044.501
R-L003	G-N103	G-N100	Natural	0	0	R-X003	1	0	0	0	0.12	884.37	883.92	930	930	367.4	0.014	200323.56	3047.371
R-L002	G-N112	G-N103	Natural	0	0	R-X002	1	0	0	0	0.12	884.82	884.37	930	930	370	0.014	193182.07	3033.703
G-L132C	G-N132	G-N258	Rectangular	8.5	0	0	1	0	0	15	0	932	932	946	947.5	58.063	0.014	83.24	753.83
G-L132O	G-N132	G-N258	Trapezoidal	2	0	0	1	1	1	50	0	941	941	946	947.5	58.06	0.02	37.07	0
G-L245	G-N245	G-N246	Natural	0	0	G-X245	1	0	0	0	0.45	949	948	975	975	224.456	0.035	17711.93	675.68
G-L126	G-N126	G-N247	Natural	0	0	G-X126	1	0	0	0	1.21	948	945	963	960	248.909	0.035	2967.39	720.436
G-L234	G-N234	G-N234.1	Natural	0	0	G-X234	1	0	0	0	0.94	997	991.28	1020	1015.92	606.01	0.035	18572.26	638.443
G-L141	G-N141	G-N232	Natural	0	0	G-X141	1	0	0	0	1.36	1016	1010	1040	1025	442.107	0.035	15264.42	624.776
G-L156	G-N156	G-N141	Natural	0	0	G-X156	1	0	0	0	1.95	1022	1016	1055	1040	307.964	0.035	13613.49	583.848
G-L169	G-N169-2	G-N229	Natural	0	0	G-X169	1	0	0	0	1.13	1048	1042.5	1071	1065.5	487.483	0.035	12838.87	469.079
G-L151	G-N151	G-N152	Circular	1.5	0	0	1	0	0	0	2.2	1098.54	1092.08	1104.24	1096.68	293.811	0.013	15.58	20.287
G-L008.1	G-N008	G-N007.2	Circular	1	0	0	1	0	0	0	0.51	902.5	895.9	904.25	901.34	1300.6	0.013	2.54	1.942
G-L008A	G-N008	G-N007	Circular	1.33	0	0	1	0	0	0	0.51	902.5	895.901	904.25	901.2	1300.6	0.013	5.43	2.9
G-L036	G-N036	G-N037	Circular	1.25	0	0	1	0	0	0	0.3	905	900.33	915.068	908.98	1550.22	0.013	3.55	3.274
G-L036A	G-N036	G-N051	Circular	1	0	0	1	0	0	0	0.2	906	905.65	915.068	914.862	178.4	0.014	1.47	-1.79
G-L033	G-N033	G-N034	Circular	3.5	0	0	1	0	0	0	0.15	895.9	895	903.614	907.901	612.652	0.013	38.56	65.274
G-L037	G-N037	G-N037B	Circular	1.25	0	0	1	0	0	0	0.51	900.33	897.786	908.98	907.086	496.313	0.013	4.62	6.554
G-L037B	G-N037B	G-N038	Circular	1.25	0	0	1	0	0	0	0.44	897.786	896.803	907.086	908.953	222.381	0.013	4.29	6.518
G-L059	G-N059	G-N060	Circular	2	0	0	1	0	0	0	1.19	931.612	925.584	935.862	930.664	507.37	0.013	24.66	16.628
G-L217C1&2	G-N217	G-N218	Circular	2.33	0	0	2	0	0	7	6.34	1150	1147	1165	1162	47.302	0.014	79.5	114.955
G-L218	G-N218	G-N219	Natural	0	0	G-X221	1	0	0	0	3.03	1147	1140	1162	1163	231.293	0.035	4932.27	114.219

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Gilbert Links																			
G-L219C	G-N219	G-N220	Circular	4	0	0	1	0	0	7	0.96	1140	1138	1163	1163	208.815	0.014	130.54	113.272
G-L220	G-N220	G-N221	Natural	8	0	G-X221	1	3	3	12	3.85	1138	1115	1163	1130	597.506	0.035	1609.45	111.575
G-L221	G-N221	G-N203	Natural	0	0	G-X221	1	0	0	0	1.86	1115	1108	1130	1123	376.393	0.035	3866.4	113.656
G-L203	G-N203	G-N223	Natural	0	0	G-X203	1	0	0	0	1.87	1108	1100	1123	1125	428.695	0.035	7321.02	233.13
G-L223	G-N223	G-N224	Natural	0	0	G-X223	1	0	0	0	2.78	1100	1090	1125	1115	359.115	0.035	20000.55	230.563
G-L224C	G-N224	G-N225	Rectangular	6	0	0	1	0	0	7	0	1085.9	1085.9	1115	1110	81.631	0.014	19.41	342.799
G-L224O	G-N224	G-N225	Trapezoidal	2	0	0	1	1	1	50	0	1098	1098	1115	1110	81.631	0.02	37.07	0
G-L225	G-N225	G-N227	Natural	0	0	G-X225	1	0	0	0	1.82	1085.9	1072	1110	1095	763.992	0.035	14314.28	347.591
G-L228C	G-N228	G-N169-2	Rectangular	10	0	0	1	0	0	10	16.3	1057	1048	1072	1071	55.199	0.014	7894.78	357.17
G-L228O	G-N228	G-N169-2	Trapezoidal	2	0	0	1	1	1	50	0	1069	1069	1072	1071	55.199	0.02	37.07	0
G-L229	G-N229	G-N230	Natural	0	0	G-X229	1	0	0	0	2.49	1042.5	1034	1065.5	1060	340.761	0.035	25279.96	470.978
G-L232	G-N232	G-N233	Natural	0	0	G-X232	1	0	0	0	1.6	1010	1002	1025	1017	498.897	0.035	5968.68	626.075
G-L233C	G-N233	G-N234	Rectangular	6	0	0	1	0	0	7	8.32	1002	997	1017	1020	60.124	0.014	1769.91	630.173
G-L233O	G-N233	G-N234	Trapezoidal	2	0	0	1	1	1	50	0	1012	1012	1017	1020	60.124	0.02	37.07	0
G-L235	G-N235	G-N236	Natural	0	0	G-X235	1	0	0	0	1.28	990	981	1015	999	705.7	0.035	10922.9	634.276
G-L236C	G-N236	G-N237	User Defined	7	0	0	1	0	0	9	9.59	981	976	999	1000	52.128	0.014	3087.66	644.026
G-L236O	G-N236	G-N237	Trapezoidal	2	0	0	1	1	1	50	0	989	989	999	1000	52.128	0.02	37.07	0
G-L237	G-N237	G-N238	Natural	0	0	G-X237	1	0	0	0	0.42	976	975	1000	1000	235.798	0.035	7759.01	653.692
G-L240C	G-N240	G-N241	User Defined	6	0	0	1	0	0	12	2.02	967	965	982	980	98.843	0.014	1278.84	668.109
G-L240O	G-N240	G-N241	Trapezoidal	2	0	0	1	1	1	50	0	977	977	982	980	98.843	0.02	37.07	0
G-L241	G-N241	G-N242	Natural	0	0	G-X241	1	0	0	0	0.99	965	960	980	975	506.823	0.035	9458.45	667.231
G-L242	G-N242	G-N243	Natural	0	0	G-X242	1	0	0	0	1.01	960	955	975	985	497.253	0.035	4502.49	665.058
G-L243	G-N243	G-N244	Natural	0	0	G-X243	1	0	0	0	0.52	955	952	985	980	572.032	0.035	53967.59	661.921
G-L244C	G-N244	G-N245	User Defined	11	0	0	1	0	0	12	4.61	952	949	980	975	65.143	0.014	5340.43	662.23
G-L244O	G-N244	G-N245	Trapezoidal	2	0	0	1	1	1	50	0	965.5	965.5	980	975	65.143	0.02	37.07	0
G-L246C	G-N246	G-N126	User Defined	6	0	0	1	0	0	12	0	948	948	975	963	68.652	0.014	0	676.489
G-L246O	G-N246	G-N126	Trapezoidal	2	0	0	1	1	1	50	0	957.5	957.5	975	963	68.652	0.02	37.07	0
G-L247C	G-N247	G-N248	User Defined	6	0	0	1	0	0	12	0.75	945	944.5	960	959.5	66.359	0.014	780.39	718.805
G-L247O	G-N247	G-N248	Trapezoidal	2	0	0	1	1	1	50	0	955	955	960	959.5	66.359	0.02	37.07	0
G-L248	G-N248	G-N249	Natural	0	0	G-X248	1	0	0	0	0.57	944.5	943	959.5	958	261.654	0.035	8835.7	711.389
G-L249C	G-N249	G-N250	User Defined	6	0	0	1	0	0	12	1.49	943	942	958	957	66.999	0.014	1098.35	711.252
G-L249O	G-N249	G-N250	Trapezoidal	2	0	0	1	1	1	50	0	950	950	958	957	66.999	0.02	37.07	0
G-L250	G-N250	G-N251	Natural	0	0	G-X250	1	0	0	0	0.84	942	940	957	955	238.736	0.035	3543.27	722.352
G-L251C	G-N251	G-N252	User Defined	6	0	0	1	0	0	12	0	940	940	955	955	61.709	0.014	0	721.784
G-L251O	G-N251	G-N252	Trapezoidal	2	0	0	1	1	1	50	0	947	947	955	955	61.709	0.02	37.07	0
G-L252	G-N252	G-N253	Natural	0	0	G-X252	1	0	0	0	0.88	940	938	955	953	227.54	0.035	3326.98	721.325
G-L253C	G-N253	G-N254	Rectangular	6	0	G-X254	1	0	0	10	0	938	938	953	953	308.539	0.014	30.62	721.662
G-L253O	G-N253	G-N254	Trapezoidal	2	0	0	1	1	1	50	0	946	946	953	953	308.539	0.02	37.07	0
G-L255	G-N255	G-N256	Trapezoidal	9	0	0	1	7.42	4.72	15	5.75	936	934	951	949	34.79	0.04	16284.75	721.849
G-L256	G-N256	G-N257	Natural	0	0	G-X256	1	0	0	0	2.46	934	932	949	948	81.184	0.035	5735.15	738.65
G-L257C	G-N257	G-N132	Rectangular	8.5	0	0	1	0	0	15	0	932	932	948	946	58.099	0.014	83.24	741.075
G-L257O	G-N257	G-N132	Trapezoidal	2	0	0	1	1	1	50	0	941	941	948	946	58.098	0.02	37.07	0

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Gilbert Links																			
G-L258	G-N258	G-N259	Natural	0	0	G-X258	1	0	0	0	1.26	932	929	947.5	944	238.616	0.035	1484.35	754.042
G-L259C	G-N259	G-N260	User Defined	7	0	0	1	0	0	12	1.6	929	928	944	943.5	62.444	0.014	1503.61	754.013
G-L259O	G-N259	G-N260	Trapezoidal	2	0	0	1	1	1	50	0	937	937	944	943.5	62.44	0.02	37.07	0
G-L260	G-N260	G-N261	Natural	0	0	G-X260	1	0	0	0	0.47	928	927	943.5	943	213.246	0.035	1606.95	753.811
G-L261C	G-N261	G-N262	User Defined	7	0	0	1	0	0	12	0	927	927	943	943	60.705	0.014	0	756.752
G-L261O	G-N261	G-N262	Trapezoidal	2	0	0	1	1	1	50	0	934.5	934.5	943	943	60.71	0.02	37.07	0
G-L263C	G-N263	G-N264	User Defined	7	0	0	1	0	0	12	0	925.5	925.5	941	941	54.109	0.014	0	755.843
G-L263O	G-N263	G-N264	Trapezoidal	2	0	0	1	1	1	50	0	933	933	941	941	54.11	0.02	37.07	0
G-L264	G-N264	G-N265	Natural	0	0	G-X264	1	0	0	0	0.49	925.5	924	941	939	303.043	0.035	1273.44	762.144
G-L265C	G-N265	G-N266	User Defined	6.5	0	0	1	0	0	12	0	924	924	939	939	77.502	0.014	0	761.685
G-L265O	G-N265	G-N266	Trapezoidal	2	0	0	1	1	1	50	0	931	931	939	939	77.5	0.02	37.07	0
G-L266	G-N266	G-N267	Natural	0	0	G-X266	1	0	0	0	1.04	924	921	939	936	287.432	0.035	2234.56	761.154
G-L267C	G-N267	G-N268	User Defined	6.5	0	0	1	0	0	12	0	921	921	936	936	73.42	0.014	0	761.766
G-L267O	G-N267	G-N268	Trapezoidal	2	0	0	1	1	1	50	0	928	928	936	936	73.42	0.02	37.07	0
G-L268	G-N268	G-N269	Natural	0	0	G-X268	1	0	0	0	0.85	921	919	936	934	234.239	0.035	1242.32	762.168
G-L269C	G-N269	G-N270	User Defined	6.5	0	0	1	0	0	12	1.32	919	918	934	933	75.992	0.014	1194.39	762.497
G-L269O	G-N269	G-N270	Trapezoidal	2	0	0	1	1	1	50	0	926	926	934	933	79.55	0.02	37.07	0
G-L270	G-N270	G-N271	Natural	0	0	G-X270	1	0	0	0	0.84	918	916	933	931	237.818	0.035	3331.18	762.705
G-L076	G-N076	G-N272	Natural	0	0	G-X076	1	0	0	0	0.73	914.5	910	929.5	927	620.106	0.035	4749.34	776.436
G-L271C	G-N271	G-N076	User Defined	7	0	0	1	0	0	12	2.27	916	914.5	931	929.5	66.157	0.014	1789.11	766.845
G-L271O	G-N271	G-N076	Trapezoidal	2	0	0	1	1	1	50	0	924	924	931	929.5	66.16	0.02	37.07	0
G-L272C	G-N272	G-N273	User Defined	9.5	0	0	1	0	0	12.3	0	910	910	927	925	93.683	0.014	0	775.967
G-L272O	G-N272	G-N273	Trapezoidal	2	0	0	1	1	1	50	0	920	920	927	925	93.68	0.02	37.07	0
G-L273	G-N273	G-N274	Natural	0	0	G-X273	1	0	0	0	2.22	910	904	925	919	270.662	0.035	11951.76	775.652
G-N274C	G-N274	G-N275	User Defined	9.5	0	0	1	0	0	16	4.64	904	901	919	925	64.664	0.014	5685.31	778.079
G-N274O	G-N274	G-N275	Trapezoidal	2	0	0	1	1	1	50	0	916	916	919	925	64.66	0.02	37.07	0
G-L275	G-N275	G-N276	Natural	0	0	G-X275	1	0	0	0	2.62	901	891	925	920	381.54	0.035	30946.52	781.936
G-L276	G-N276	G-N277	Natural	0	0	G-X276	1	0	0	0	1.64	891	882.758	920	930	503.996	0.035	21486.41	782.52
R-L007	G-N277	G-N069	Natural	0	0	R-X007	1	0	0	0	0.12	882.04	880.08	930	930	1623	0.014	189851.14	3372.319
624.1A	G-N125	G-N126	Circular	2.5	0	0	2	0	0	0	2.68	984.3	948	989.3	963	1355.51	0.013	67.12	35.501
624.1B	G-N125	G-N126	Circular	2	0	0	1	0	0	0	2.68	984.3	948	989.3	963	1355.51	0.013	37.02	14.738
G-L216	G-N216	G-N217	Natural	5	0	G-X221	1	3	3	10	3.07	1167	1150	1175.161	1165	553	0.035	536.57	115.217
G-L238C	G-N238	G-N239	User Defined	6	0	0	1	0	0	12	0	975	975	1000	990	28.173	0.014	0	653.909
G-L238O	G-N238	G-N239	Trapezoidal	2	0	0	1	1	1	50	0	986	986	1000	990	28.173	0.02	37.07	0
G-L239	G-N239	G-N240	Natural	0	0	G-X239	1	0	0	0	2.67	975	967	990	982	300.036	0.035	11814.42	654.08
G-L262	G-N262	G-N263	Natural	0	0	G-X262	1	0	0	0	0.69	927	925.5	943	941	218.89	0.035	2066.26	756.321
G-L202	G-N202	G-N203	Trapezoidal	6	0	0	1	3	3	8	4.79	1133	1108	1148	1123	522.362	0.04	2864.03	100.452
G-L201	G-N201	G-N202	Natural	4	0	3bot12top4deepNat	1	3	3	8	1.26	1142	1133	1146	1148	712.348	0.04	198.49	100.515
G-L198	Node 42	G-N199	Circular	1.5	0	0	1	0	0	0	3.3	1115.09	1103.4	1119.29	1109.4	354.299	0.01	24.8	0
G-L197	Node43	G-N199	Circular	1	0	0	1	0	0	0	6.9	1120.9	1103.4	1126.25	1109.4	253.466	0.01	12.17	1.568
G-L196	G-N197	Node43	Circular	1	0	0	1	0	0	0	5.89	1168.9	1120.9	1174.7	1126.25	814.519	0.01	11.24	1.575
G-L185	G-N185	G-N186	Circular	1.5	0	0	1	0	0	0	8.05	1178.95	1164.59	1186	1179.6	178.308	0.013	29.81	2.255

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Gilbert Links																			
G-L186	G-N186	G-N187	Trapezoidal	10	0	0	1	3	3	10	7.9	1164.59	1154	1179.6	1169	133.999	0.04	12954.93	2.248
G-L187C	G-N187	G-N188	Circular	2	0	0	1	0	0	0	6.41	1154	1146	1169	1164	124.835	0.013	57.27	5.73
G-L187O	G-N187	G-N188	Trapezoidal	2	0	0	1	1	1	50	0	1162	1162	1169	1164	124.835	0.02	37.07	0
G-L188	G-N188	G-N192	Trapezoidal	12	0	0	1	3	3	12	6.3	1146	1122.28	1164	1135.48	376.693	0.04	18804.06	5.63
G-L192	G-N192	G-N195	Circular	2	0	0	1	0	0	0	1.75	1121.28	1113.73	1135.48	1118.93	430.857	0.024	16.22	14.992
G-L139	G-N139	G-N140	Circular	3	0	0	1	0	0	0	1.95	1022.83	1019.2	1035.13	1029.57	186.423	0.013	93.07	28.658
G-L019	G-N019	G-N018	Circular	2	0	0	1	0	0	0	0.43	902.266	899.837	907.166	905.337	560.533	0.013	14.89	1.743
G-L183	G-N183	G-N169-2	Circular	3	0	0	1	0	0	0	6.43	1059.32	1048	1064.62	1071	175.94	0.013	169.18	54.667
G-L025	G-N025	G-N026	Circular	2.5	0	0	1	0	0	0	0.43	909.977	908.369	920.327	916.977	370.166	0.01	35.14	12.629
G-L133	Node44	G-N134	Circular	2.5	0	0	1	0	0	0	1.89	1063	1060	1068.5	1065.58	158.7	0.013	56.39	17.799
G-L134	G-N134	G-N135	Circular	2.5	0	0	1	0	0	0	9.87	1060	1055.51	1065.58	1066.41	45.469	0.013	128.89	17.8
G-L157	G-N157	G-N158	Circular	4	0	0	1	0	0	0	7.36	1109.71	1099.78	1116.51	1109.98	134.92	0.024	211.08	27.504
G-L161	G-N161	G-N162	Circular	2	0	0	1	0	0	0	4.82	1154	1145	1162	1152	186.764	0.013	49.66	5
G-L162	G-N162	G-N163	Circular	2	0	0	1	0	0	0	1.22	1145	1144	1152	1154.15	81.744	0.01	32.53	5.073
G-L193	G-N193	G-N194	Circular	1.5	0	0	1	0	0	0	0.86	1138.14	1137.39	1144.98	1142.96	86.729	0.013	9.77	4.681
G-L212	G-N212	G-N213	Circular	1.5	0	0	1	0	0	0	3.91	1207.37	1191.54	1213.67	1198.24	404.787	0.01	27	6.943
G-L213	G-N213	G-N210B	Circular	1.75	0	0	1	0	0	0	0.65	1191.54	1190	1198.24	1204.5	237.335	0.01	16.59	7.57
G-L210C	G-N210	G-N210B	Circular	3	0	0	1	0	0	0	0	1188	1188	1206	1204.5	68.097	0.013	2.11	74.756
G-L208	G-N208	G-N209	Trapezoidal	4	0	0	1	2	2	8	2.81	1210	1195	1225	1210	532.947	0.04	729.27	71.682
G-L209	G-N209	G-N210	Trapezoidal	4	0	0	1	2	2	8	5.2	1195	1188	1210	1206	134.64	0.04	991.17	71.368
G-L210BC	G-N210B	G-N211	Circular	3	0	0	1	0	0	0	0	1188	1188	1204.5	1203	42.434	0.013	2.11	82.234
G-L214	G-N214	G-N214.1	Trapezoidal	4	0	0	1	2	2	8	6.43	1182	1170.65	1197	1182.92	176.58	0.04	1102.08	82.884
G-L021	G-N021	G-N020	Circular	2	0	0	1	0	0	0	1.69	904.609	902.488	908.009	907.588	125.503	0.013	29.41	1.801
G-L055	G-N055	G-N056	Circular	3.5	0	0	1	0	0	0	1.77	895.963	888	908.804	945	449.927	0.013	133.85	72.289
G-L046	G-N046	G-N047	Circular	3	0	0	1	0	0	0	0.5	914.009	913.059	922.159	920.337	189.956	0.013	47.17	41.926
G-L039	G-N039	G-N040	Circular	2	0	0	1	0	0	0	0.48	962.682	961.186	967.68	964.29	309.936	0.013	15.72	13.839
G-L058	G-N058	G-N059	Circular	2	0	0	1	0	0	0	0.96	933.618	931.612	937.278	935.862	208.289	0.013	22.2	4.168
G-L108	G-N108	G-N109	Circular	1.5	0	0	1	0	0	0	1.1	919.308	916	926.508	924.151	300.028	0.013	11.03	16.116
G-L085	G-N085	G-N086	Circular	1	0	0	1	0	0	0	0.67	913.269	910	919.569	930	486.161	0.015	2.53	3.291
G-L078	G-N078	G-N079	Circular	1	0	0	1	0	0	0	0.54	926.202	923.19	935.202	932.045	559.243	0.013	2.61	2.478
G-L123	G-N123	G-N124	Circular	3.5	0	0	1	0	0	0	1.51	991.107	987.869	997.357	994.319	214.298	0.013	123.67	41.724
G-L182	Node42	G-N182.1	Circular	2.5	0	0	1	0	0	0	2.83	1080.11	1066.09	1089.11	1072.6	494.72	0.013	69.05	48.683
G-L184	G-N184	G-N185	Circular	1	0	0	1	0	0	0	3.32	1194.1	1180.1	1202.15	1186	422.063	0.01	8.44	2.257
Link680	Node36	Node636	Natural	2	0	3bot8top2deepNat	1	0	0	0	2.5	1158.43	1153.516	1165.68	1156.27	196.525	0.04	71.74	97.066
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G-L207	G-N207	Node423	Circular	1.5	0	0	1	0	0	0	3.23	1175.22	1169.42	1180.92	1172.45	179.29	0.013	18.89	27.237
G-L205	G-N205	G-N283	Circular	2	0	0	1	0	0	0	9.23	1196.66	1193.43	1201.16	1200.44	35	0.01	89.34	45.738
G-L206	G-N206	G-N207	Circular	2	0	0	1	0	0	0	5.38	1184.75	1175.22	1189.75	1180.92	176.997	0.01	68.24	45.267
G-L204	G-N204	G-N205	Circular	2	0	0	1	0	0	0	11.87	1203.55	1196.66	1208.05	1201.16	58.033	0.013	77.95	45.94
G-L227C	G-N227	G-N226	Rectangular	6	0	0	1	0	0	7	0	1072	1072	1095	1087	41.166	0.014	19.41	348.007
G-L227O	G-N227	G-N226	Trapezoidal	2	0	0	1	1	1	50	0	1079	1079	1095	1087	41.166	0.02	37.07	0
G-L137	G-N137	G-N138	Circular	1.5	0	0	1	0	0	0	4.58	1064.14	1044.04	1071.34	1051.54	438.546	0.013	22.49	5.197

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Gilbert Links																			
G-L211	G-N211	G-N214	Trapezoidal	4	0	0	1	2	2	8	2.21	1188	1182	1203	1197	271.605	0.04	646.09	81.466
R-L001	N299	G-N112	Natural	0	0	R-X001	1	0	0	0	0.12	886	884.82	930	930	977.2	0.014	207861.93	3034.836
G-L283	G-N283	G-N206	Circular	2	0	0	1	0	0	0	2.96	1193.43	1184.75	1200.44	1189.75	292.76	0.01	50.64	45.487
G-L280	G-N280	G-N208	Trapezoidal	4	0	0	1	2	2	8	5.34	1345	1210	1350	1225	2529.75	0.04	1004.19	18.359
G-L281	G-N281	G-N123	Circular	3	0	0	1	4	4	10	6.76	1062	991.107	1069	997.357	1049.29	0.024	93.91	41.825
Link362	Node330	Node331	Natural	2	0	4bot8top2deepRck	1	0	0	0	0.04	1176.42	1176.26	1178.42	1178.26	378	0.05	8.48	-2.314
Link363	Node331	Node332	Circular	2	0	0	1	0	0	0	-0.42	1176.26	1176.39	1178.26	1178.39	31	0.013	14.65	-5.427
Link364	Node332	G-N279-2	Natural	2	0	2bot6top2deepNat	1	0	0	0	5.11	1176.39	1175.93	1178.39	1177.93	9	0.04	69.18	-5.459
Link365	G-N279-2	Node334	Circular	2	0	0	1	0	0	0	-6.77	1174.93	1175.81	1177.93	1177.81	13	0.024	31.88	29.139
Link366	G-N279-2	Node335	Natural	2	0	2bot6top2deepNat	1	0	0	0	0.03	1175.93	1175.89	1177.93	1178.14	115	0.04	5.71	16.321
Link613	Node334	Node585	Trapezoidal	5	0	0	1	2	2	4	3.18	1172.81	1165.884	1177.81	1170.884	218.11	0.04	888.63	29.164
Link367	Node335	Node336	Special	3.5	0	0	1	0	0	0	-0.01	1175.89	1175.92	1178.14	1178.23	235	0.024	3.43	15.02
Link368	Node336	Node336.2	Natural	2.3	0	4bot9top2.3deepConc	1	0	0	0	0.06	1175.92	1175.82	1178.23	1178.12	164	0.017	40.1	14.16
Link371	Node337	Node337.1	Circular	2	0	0	1	0	0	0	0.75	1175.9	1175.16	1178.2	1182.58	99	0.013	19.56	10.21
Link368.1	Node336.1	Node337	Natural	2.3	0	4bot9top2.3deepConc	1	0	0	0	-0.12	1175.81	1175.9	1178.11	1178.2	75	0.017	56.25	10.693
Link368.2	Node336.2	Node336.1	Natural	2.3	0	4bot9top2.3deepConc	1	0	0	0	0	1175.82	1175.81	1178.12	1178.11	260	0.017	10.07	12.409
Link377	Node340	Node346	Natural	3	0	1.5bot8top3deepNat	1	0	0	0	0.12	1174.44	1174.21	1178.44	1177.21	186	0.04	23.05	9.949
Link371.1	Node337.1	Node340	Circular	2	0	0	1	0	0	0	0.74	1175.16	1174.44	1182.58	1178.44	97	0.024	10.56	10.157
Link378	Node346	Node347	Circular	2	0	0	1	0	0	0	0.03	1174.21	1174.17	1177.21	1176.17	159	0.024	1.94	9.843
Link379	Node347	Node348	Natural	2	0	1.5bot6top2deepNat	1	0	0	0	0.31	1174.17	1173.61	1176.17	1175.61	178	0.04	14.04	9.795
Link380	Node348	Node349	Circular	2	0	0	1	0	0	0	-0.27	1173.61	1174.04	1175.61	1178.24	160	0.013	11.73	9.136
Link381	Node349	Node349.1	Circular	2	0	0	1	0	0	0	0.28	1174.04	1173.48	1178.24	1177.96	201	0.013	11.94	9.132
Link382	Node350	Node351	Circular	2	0	0	1	0	0	0	0.28	1173.32	1172.619	1176.32	1175.619	251	0.013	11.96	9.121
Link422	Node351	Node390	Natural	2	0	2bot4top2deepDW	1	0	0	0	0.28	1172.619	1171.81	1175.619	1173.81	286	0.055	8.2	9.119
Link381.1	Node349.1	Node350	Circular	2	0	0	1	0	0	0	0.28	1173.48	1173.32	1177.96	1176.32	57	0.013	11.99	9.126
Link389	Node354	Node359	Natural	1.5	0	5bot5top1.5deepNat	1	0	0	5	24.8	1069.3	1066.82	1071.45	1072.12	10	0.04	132.91	5.854
Link384.1	Node317.1	Node354	Rectangular	1.5	0	0	1	0	0	6	0.03	1069.32	1069.3	1072.36	1071.45	64	0.013	12.94	2.252
Link384.2	Node317.2	Node317.1	Circular	2.5	0	0	1	0	0	0	0.04	1069.34	1069.32	1073.07	1072.36	45	0.014	8.03	1.992
Link384.3	Node317.3	Node317.2	Circular	2.5	0	0	1	0	0	0	0.03	1069.45	1069.34	1075.15	1073.07	317	0.014	7.09	1.996
Link628	Node317.3	G-N154.1	Circular	3.5	0	0	1	0	0	0	2.9	1069.45	1058.4	1075.15	1065.45	380.98	0.024	92.81	9.686
Link390	Node359	Node359.1	Circular	2	0	0	1	0	0	0	0.2	1066.82	1066.31	1072.12	1071.35	253	0.013	10.16	2.576
Link392	Node360	Node362	Natural	1.7	0	5bot5top1.7deepNat	1	0	0	0	-37.22	1065.53	1068.88	1070.58	1070.58	9	0.04	194.18	2.177
Link390.1	Node359.1	Node360	Circular	2	0	0	1	0	0	0	0.2	1066.31	1065.53	1071.35	1070.58	389	0.013	10.13	2.205
Link393	Node362	Node363	Circular	1.7	0	0	1	0	0	0	0.2	1068.88	1068.78	1070.58	1071.15	49	0.013	6.63	2.111
Link394	Node363	Node364	Natural	2.2	0	6bot6top2.2deepNat	1	0	0	0	-2.4	1068.78	1068.9	1071.15	1071.15	5	0.04	89.06	2.065
Link395	Node364	Node365	Circular	1.5	0	0	1	0	0	0	0.66	1068.9	1067.45	1071.15	1070.65	221	0.013	8.51	2.035
Link396	Node365	Node366	Circular	1.5	0	0	1	0	0	0	-0.39	1067.45	1068.01	1070.65	1071.76	142	0.013	6.6	2.076
Link397	Node366	Node367	Circular	1.5	0	0	1	0	0	0	-0.22	1068.01	1068.63	1071.76	1071.63	279	0.013	4.95	-2.057
Link398	Node367	Node367.1	Natural	3	0	4bot6top3deepNatRub	1	0	0	0	0.27	1068.63	1068.24	1071.63	1071.24	146	0.025	58.06	-2.812
Link400	G-N169-1	Node370	Natural	3	0	2bot6top3deepGun	1	0	0	0	1.11	1067.94	1066.72	1070.94	1070.22	110	0.022	101.82	7.699
Link398.1	Node367.1	G-N169-1	Natural	2	0	2bot8top2deepNat	1	0	0	0	0.26	1068.24	1067.94	1071.24	1070.94	114	0.04	20.13	-4.372
Link401	Node370	Node370.3	Circular	2	0	0	1	0	0	0	0.07	1067.72	1067.7	1070.22	1070.18	28	0.014	5.61	-8.882

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Gilbert Links																			
GilbrtSpll	Node370	G-N226.1	0	0	0	0	0	0	0	0	0	0	0	1070.22	1078.7	0	0	0	0.557
1067.22	Node370	G-N226.1	0	0	0	0	0	0	0	0	0	0	0	1070.22	1078.7	0	0	5.67	8.303
Link402	Node371	Node372	Circular	1.5	0	0	1	0	0	0	1.04	1067.38	1066.59	1069.38	1068.59	76	0.024	5.8	3.906
Link408	Node372	Node377	Natural	1.19	0	4bot6top1.19deepConc	1	0	0	0	-0.03	1066.59	1066.76	1068.59	1067.95	502	0.017	8.5	3.962
Link401.1	Node370.1	Node371	Natural	2	0	3bot4top2deepGun	1	0	0	0	0.07	1067.46	1067.38	1069.58	1069.38	123	0.022	11.92	3.914
Link401.2	G-N182	Node370.1	Circular	1.5	0	0	1	0	0	0	0.06	1067.69	1067.46	1070.15	1069.58	358	0.024	1.44	3.923
Link401.3	Node370.3	G-N182	Natural	2	0	2bot6top2deepNat	1	0	0	0	0.05	1067.7	1067.69	1070.18	1070.15	19	0.04	7.02	-5.15
G-L226.1	G-N226.1	G-N228	Natural	0	0	G-X226	1	0	0	0	1.8	1063	1057	1078.7	1072	332.75	0.035	6876.83	357.164
Link409	Node377	Node378	Natural	1.19	0	4bot6top1.19deepConc	1	0	0	0	0.19	1066.76	1066.36	1067.95	1068.36	216	0.017	19.88	4.191
Link410	Node378	Node379	Natural	2	0	4bot6top2deepConc	1	0	0	0	0.05	1066.36	1066.21	1068.36	1068.21	296	0.017	21.98	4.298
411a	Node379	Node380	Circular	2	0	0	1	0	0	0	0.64	1066.21	1065.83	1068.21	1067.83	59	0.013	18.16	2.225
411b	Node379	Node380	Circular	2	0	0	1	0	0	0	0.64	1066.21	1065.83	1068.21	1067.83	59	0.013	18.16	2.225
Link412	Node380	Node381	Natural	1.9	0	3bot4top1.9deepConc	1	0	0	0	0.21	1065.83	1065.36	1067.83	1067.32	229	0.017	25.62	4.497
Link413	Node381	Node382	Rectangular	1.7	0	0	1	0	0	4.67	-0.32	1065.51	1065.66	1067.32	1067.36	47	0.017	28.6	-17.908
ValleyView	Node381	Node44	0	0	0	0	0	0	0	0	0	0	0	1067.32	1068.5	0	0	0	2.248
vallyviewO	Node381	Node44	0	0	0	0	0	0	0	0	0	0	0	1067.32	1068.5	0	0	18.07	15.582
Link414	Node382	G-N133	Natural	1.7	0	4bot6top1.7deepConc	1	0	0	0	0.08	1065.66	1065.58	1067.36	1068.58	97	0.017	22.32	-22.141
Link526	G-N133	Node495	Natural	1.7	0	4bot6top1.7deepConc	1	0	0	0	0.22	1065.58	1065.4	1068.58	1067.1	81	0.017	36.64	9.999
Link416	Node384	Node384.2	Circular	0.667	0	0	1	0	0	0	9	1161.26	1123.37	1164.66	1126.85	421	0.013	3.63	3.787
Link505	Node384	Node473	Natural	1.3	0	3.5bot8top1.3deepNat	1	0	0	0	1.83	1162.37	1161.84	1164.66	1163.84	29	0.04	33.94	1.964
Link420	Node384.1	Node388	Circular	1.25	0	0	1	0	0	0	14	1114.37	1113.67	1117.77	1117.07	5	0.013	24.17	3.782
Link416.1	Node388	G-N133	Circular	2	0	0	1	0	0	0	5.65	1113.67	1065.58	1117.07	1068.58	851	0.013	53.78	3.737
Link416.2	Node384.2	Node384.1	Circular	0.833	0	0	1	0	0	0	9	1123.37	1114.37	1126.85	1117.77	100	0.013	6.57	3.783
Link423	Node390	Node391	Circular	2	0	0	1	0	0	0	-1.15	1171.81	1172.36	1173.81	1174.36	48	0.014	22.49	9.115
Link424	Node391	Node392	Circular	2	0	0	1	0	0	0	-1.15	1172.36	1172.73	1174.36	1174.73	32.17	0.014	22.53	-13.305
1024.1	Node391	Node391.2	Natural	4	0	22bot30top4deepNat	1	1	1	3	4.2	1168	1167.79	1174.36	1174.14	5	0.013	1691.31	20.067
vet	Node391	Node391.2	0	0	0	0	0	0	0	0	0	0	0	1174.36	1174.14	0	0	17.4	0
Link426	Node392	Node394	Natural	1.3	0	4bot6top1.3deepNat	1	0	0	0	-0.41	1172.73	1173.17	1174.73	1174.48	107	0.04	13.58	-13.305
Link427	Node394	Node395	Natural	1.3	0	4bot6top1.3deepNat	1	0	0	0	-0.01	1173.17	1173.18	1174.48	1174.88	108	0.04	2.04	-13.305
Link428	Node395	Node396	Natural	1.3	0	4bot6top1.3deepNat	1	0	0	0	0.8	1173.18	1172.83	1174.88	1174.83	44	0.04	18.89	-13.306
Link429	Node396	Node397	Circular	2	0	0	1	0	0	0	1.68	1172.83	1172.51	1174.83	1174.51	19	0.014	27.26	-13.306
Link430	Node397	Node398	Natural	1.9	0	3bot4top1.9deepNat	1	0	0	0	-0.16	1172.51	1172.76	1174.51	1174.67	160	0.04	9.5	-13.389
Link431	Node398	Node399	Natural	1.9	0	4bot6top1.9deepNat	1	0	0	0	0.16	1172.76	1172.43	1174.67	1174.33	208	0.04	15.39	-13.729
Link432	Node399	Node400	Circular	2	0	0	1	0	0	0	-0.74	1171.64	1172.06	1174.33	1174.06	57	0.014	18.03	-14.769
Link433	Node400	G-N216-1	Natural	1.9	0	4bot6top1.9deepNat	1	0	0	0	-0.71	1172.06	1172.46	1174.06	1174.46	56	0.04	32.65	-18.225
Link434	G-N216-1	Node402	Natural	1.9	0	4bot6top1.9deepNat	1	0	0	0	0.35	1172.46	1171.85	1174.46	1173.85	175	0.04	22.81	-22.11
Link435	Node402	Node403	Circular	2	0	0	1	0	0	0	-0.03	1171.85	1171.93	1173.85	1175.97	289	0.013	3.76	15.175
Link436	Node403	Node586	Natural	1.9	0	4bot6top1.9deepNat	1	0	0	0	0.27	1171.93	1171.4	1175.97	1173.51	195	0.04	20.14	15.091
Link437	Node404	G-N216-2	Circular	2	0	0	1	0	0	0	0.36	1171.51	1171.41	1173.51	1173.41	28	0.024	7.32	-6.954
GilbertDem	Node404	Node586	0	0	0	0	0	0	0	0	0	0	0	1173.51	1173.51	0	0	0	7.418
Link438	G-N216-2	Node406	Natural	2	0	5bot11top2deepNat	1	0	0	0	-0.13	1171.41	1171.66	1173.41	1173.66	193	0.04	25.62	-6.36
Link439	Node406	Node407	Circular	2	0	0	1	0	0	0	-0.8	1171.66	1171.86	1173.66	1173.86	25	0.013	20.23	-5.893

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Gilbert Links																			
Link440	Node407	Node408	Natural	2	0	5bot11top2deepNat	1	0	0	0	0.3	1171.86	1171.73	1173.86	1173.73	43	0.04	39.13	-5.533
Link441	Node408	Node409	Circular	2	0	0	1	0	0	0	0.2	1171.73	1171.7	1173.73	1173.7	15	0.013	10.12	-5.135
Link442	Node409	Node410	Natural	2	0	5bot11top2deepNat	1	0	0	0	0.21	1171.7	1171.57	1173.7	1173.57	62	0.04	32.59	-6.211
Link443	Node410	Node411	Circular	2	0	0	1	0	0	0	0.11	1171.57	1171.55	1173.57	1173.55	18	0.013	7.54	-7.583
Link444	Node411	Node411.1	Natural	2	0	5bot11top2deepNat	1	0	0	0	0.49	1171.55	1170.48	1173.55	1172.48	217	0.04	49.98	-9.154
Link447	Node412	Node415	Natural	3	0	3bot15top3deepNat	1	0	0	0	-0.92	1170.17	1170.89	1173.17	1173.89	78	0.04	134.28	-17.611
Link444.1	Node411.1	Node412	Circular	2	0	0	1	0	0	0	0.48	1170.48	1170.17	1172.48	1173.17	64	0.014	14.62	-13.47
Link448	Node415	Node416	Circular	2	0	0	1	0	0	0	-0.03	1170.89	1170.91	1173.89	1173.91	61	0.014	3.8	-18.567
Link449	Node416	Node417	Natural	2.9	0	3bot15top2.9deepNat	1	0	0	0	-0.12	1170.91	1171.06	1173.91	1173.96	123	0.04	46.29	-23.263
Link450	Node417	Node418	Circular	2	0	0	1	0	0	0	0.46	1171.06	1169.98	1173.96	1174.98	233	0.013	15.4	3.106
Link451	Node418	Node419	Circular	1	0	0	1	0	0	0	0.02	1169.98	1169.92	1174.98	1171.92	311	0.013	0.49	3.106
Link452	Node419	Node420	Natural	2	0	2bot4top2deepConc	1	0	0	0	3.92	1169.92	1169.41	1171.92	1172.41	13	0.017	98.77	3.106
Link453	Node420	Node421	Circular	1.67	0	0	1	0	0	0	-0.91	1163.41	1164	1172.41	1171.498	65	0.014	12.37	-3.609
Link454	Node420	Node616	Circular	1.67	0	0	1	0	0	0	0.03	1163.4	1163.395	1172.41	1165.07	18	0.013	2.33	6.556
Link455	Node421	Node423	Circular	1.5	0	0	1	0	0	0	-0.2	1168.3	1169.35	1171.498	1172.45	516	0.013	4.74	-3.608
Link622	Node422	Node422.1	Natural	0.67	0	2bot2top.67deepConc	1	0	0	0	3.11	1163.395	1158.28	1165.07	1163.14	164.706	0.017	11.23	29.941
G-L207.2	Node423	G-N207.1	Circular	1.5	0	0	1	0	0	0	7.16	1169.35	1164.41	1172.45	1169.74	69	0.013	28.11	19.039
Link624	Node423	Node424	Circular	1.5	0	0	1	0	0	0	-0.47	1168.92	1169.14	1172.45	1171.64	47	0.013	7.19	6.307
Link456	Node424	G-N215-2	Natural	2.5	0	4bot12top2.5deepNW	1	0	0	0	0.07	1169.14	1168.96	1171.64	1171.46	267	0.045	22.36	6.288
Link457	G-N215-2	Node426	Circular	2	0	0	1	0	0	0	0.93	1168.96	1168.56	1171.46	1170.56	43	0.013	21.82	-1.937
Link626	G-N215-2	Node36	Circular	2.5	0	0	1	0	0	0	8.03	1168.96	1158.43	1171.46	1165.68	131.13	0.013	116.23	9.789
Link458	Node426	Node427	Natural	2	0	4bot8top2deepNat	1	0	0	0	0.14	1168.56	1168.36	1170.56	1170.36	147	0.04	19.01	2.844
Link459	Node427	Node428	Circular	2	0	0	1	0	0	0	2.28	1168.36	1167.95	1170.36	1169.95	18	0.013	34.14	4.457
Link460	Node428	Node428.1	Natural	0.5	0	4bot8top0.5deepNat	1	0	0	0	-0.07	1167.95	1168.06	1169.95	1168.56	165	0.04	1.48	3.252
Link462	Node429	Node431	Natural	0.5	0	4bot8top0.5deepNat	1	0	0	0	-0.28	1168.08	1168.57	1170.16	1170.57	172	0.04	3.06	-6.414
Link460.1	Node428.1	Node429	Natural	0.5	0	4bot8top0.5deepNat	1	0	0	0	-0.06	1168.06	1168.08	1168.56	1170.16	33	0.04	1.41	-6.082
Link463	Node431	G-N215-1	Circular	2	0	0	1	0	0	0	1.5	1168.57	1168.24	1170.57	1170.74	22	0.013	27.71	-6.896
Link464	G-N215-1	Node433	Natural	2.5	0	3.5bot5.5top2.5dpGun	1	0	0	0	0.37	1168.24	1167.45	1170.74	1169.95	215	0.022	53.91	7.025
Link465	Node433	Node434	Circular	1.75	0	0	1	0	0	0	0.02	1167.45	1167.4	1169.95	1171.75	245	0.013	2.26	6.217
Link466	Node434	Node435	Circular	1.75	0	0	1	0	0	0	0.03	1165.9	1165.88	1171.75	1169.96	75	0.013	2.59	6.101
Link467	Node435	Node436	Circular	2	0	0	1	0	0	0	0.78	1165.88	1165.74	1169.96	1170.89	18	0.013	19.95	6.085
Link468	Node436	Node437	Circular	2	0	0	1	0	0	0	0.52	1165.74	1165.25	1170.89	1174.66	94	0.013	16.33	6.073
Link469	Node437	Node438	Circular	2	0	0	1	0	0	0	0.29	1163.85	1163.67	1174.66	1179.75	63	0.013	12.09	6.056
Link470	Node438	Node439	Circular	2	0	0	1	0	0	0	0.39	1163.67	1163.21	1179.75	1182.7	119	0.013	14.07	6.039
Link471	Node439	Node440	Circular	2	0	0	1	0	0	0	-0.03	1163.21	1163.23	1182.7	1180.41	77	0.013	3.65	6.022
Link472	Node440	Node441	Circular	2	0	0	1	0	0	0	0.07	1163.23	1163.14	1180.41	1180.41	121	0.013	6.17	6.004
Link473	Node441	Node442	Circular	2	0	0	1	0	0	0	0.48	1163.14	1162.83	1180.41	1169.16	64	0.013	15.74	5.986
Link474	Node442	G-N198	Natural	2	0	4bot12top2deepNat	1	0	0	0	0.34	1167.1	1166.76	1169.16	1169.35	100	0.04	39.92	5.571
Link475	G-N198	Node444	Natural	2	0	4bot12top2deepNat	1	0	0	0	0.62	1166.76	1166.19	1169.35	1169.11	92	0.04	53.89	8.244
Link476	Node444	Node445	Circular	1.67	0	0	1	0	0	0	0	1166.44	1166.43	1169.11	1170.03	255	0.013	0.88	7.711
Link477	Node445	Node446	Circular	1.67	0	0	1	0	0	0	1.29	1166.43	1163.79	1170.03	1170.03	205	0.013	15.87	7.703
Link478	Node446	Node447	Circular	1.67	0	0	1	0	0	0	11.5	1165.45	1164.99	1170.03	1169.99	4	0.013	47.43	7.701

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Gilbert Links																			
Link479	Node447	Node448	Circular	1.67	0	0	1	0	0	0	100.2	1164.99	1157.36	1169.99	1169.99	7.615	0.013	140	7.701
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Link480	Node448	Node449	Circular	1.67	0	0	1	0	0	0	0.2	1157.36	1157.28	1169.99	1169.99	40	0.013	6.25	7.7
Link481	Node449	Node450	Circular	1.67	0	0	1	0	0	0	-99.8	1157.3	1164.62	1169.99	1169.99	7.335	0.013	139.72	7.699
Link487	Node450	Node450.1	Circular	1.67	0	0	1	0	0	0	1.09	1164.88	1163.248	1169.99	1166.924	150	0.013	14.59	7.698
Link482	Node451	Node452	Circular	1.75	0	0	1	0	0	0	0.39	1160.769	1159.972	1167.499	1167.99	204.5	0.013	9.89	6.792
Link483	Node452	Node453	Circular	1.75	0	0	1	0	0	0	0.39	1159.972	1159.37	1167.99	1169.49	154.5	0.013	9.89	6.792
Link484	Node453	Node454	Circular	2	0	0	1	0	0	0	0.2	1162.9	1162.74	1169.49	1170.44	80	0.013	10.12	6.792
Link488	Node454	Node457	Circular	2	0	0	1	0	0	0	0.2	1162.74	1162.488	1170.44	1170.44	126	0.013	10.12	6.792
Link485	Node455	Node451	Circular	1.75	0	0	1	0	0	0	0.39	1161.096	1160.769	1167.496	1167.499	84	0.013	9.89	6.79
Link486	Node456	Node455	Circular	1.75	0	0	1	0	0	0	1.62	1161.695	1161.096	1166.9	1167.496	37	0.013	20.16	6.79
Link489	Node457	Node458	Circular	2	0	0	1	0	0	0	0.45	1162.488	1161.14	1170.44	1168.84	298	0.013	15.22	6.792
Link490	Node458	Node459	Circular	2	0	0	1	0	0	0	-0.04	1161.14	1161.16	1168.84	1167.36	55	0.013	4.31	6.791
Link491	Node459	Node460	Circular	2	0	0	1	0	0	0	-0.18	1161.16	1161.55	1167.36	1165.75	217	0.013	9.59	6.789
Link492	Node460	Node461	Circular	2	0	0	1	0	0	0	0.87	1161.55	1161.13	1165.75	1165.13	48	0.013	21.16	6.786
Link493	Node461	Node462	Circular	2	0	0	1	0	0	0	0	1161.13	1161.13	1165.13	1169.6	64	0.013	0.72	5.733
Link494	Node462	Node463	Circular	2	0	0	1	0	0	0	-5.7	1162.1	1162.67	1169.6	1165.97	10	0.013	54.01	5.733
Link495	Node463	Node464	Circular	1.25	0	0	1	0	0	0	-0.66	1162.67	1163.32	1165.97	1167.32	99	0.013	5.23	5.733
Link496	Node464	Node465	Natural	1.2	0	6bot10top1.7deepNat	1	0	0	0	-0.04	1163.32	1163.35	1167.32	1165.44	69	0.04	6.5	5.726
Link497	Node465	Node466	Natural	1.2	0	6bot10top1.7deepNat	1	0	0	0	0.16	1163.35	1163.17	1165.44	1164.91	110	0.04	12.61	5.711
Link498	Node466	Node467	Circular	1.5	0	0	1	0	0	0	0.33	1163.17	1162.91	1164.91	1164.98	79	0.013	6.03	5.64
Link499	Node467	Node468	Circular	1.25	0	0	1	0	0	0	0.02	1162.91	1162.89	1164.98	1164.61	120	0.013	0.83	5.64
Link500	Node468	Node469	Natural	1.6	0	6bot10top1.6deepNat	1	0	0	0	0.49	1162.89	1162.1	1164.61	1163.77	160	0.04	36.69	5.64
Link501	Node469	Node470	Circular	1.67	0	0	1	0	0	0	0.86	1162.1	1161.74	1163.77	1164.53	42	0.013	12.95	5.64
Link502	Node470	Node471	Circular	1.75	0	0	1	0	0	0	2.44	1161.74	1159.74	1164.53	1164.54	82	0.013	24.75	5.64
Link503	Node471	Node472	Circular	1.75	0	0	1	0	0	0	-6.67	1159.74	1160.94	1164.54	1164.44	18	0.013	40.91	5.64
Link504	Node472	Node384	Circular	1.75	0	0	1	0	0	0	-2.18	1160.94	1161.68	1164.44	1164.66	34	0.013	23.38	5.64
Link506	Node473	Node474	Circular	2	0	0	1	0	0	0	0.5	1161.84	1161.76	1163.84	1163.92	16	0.013	16	1.963
Link507	Node474	Node475	Natural	1.3	0	3.5bot8top1.3deepNat	1	0	0	0	0.46	1162.14	1161.12	1163.92	1162.42	220	0.04	17.09	1.963
Link508	Node475	Node476	Natural	1.3	0	3.5bot8top1.3deepNat	1	0	0	0	-0.12	1161.12	1161.28	1162.42	1162.65	138	0.04	8.55	1.962
Link509	Node476	Node477	Natural	1.3	0	3.5bot8top1.3deepNat	1	0	0	0	0.27	1161.28	1160.36	1162.65	1162.12	346	0.04	12.94	1.961
Link510	Node477	Node478	Natural	1.3	0	3.5bot8top1.3deepNat	1	0	0	0	-0.2	1160.36	1160.8	1162.12	1162.1	224	0.04	11.13	1.959
Link511	Node478	Node479	Natural	1.3	0	3.5bot8top1.3deepNat	1	0	0	0	0.46	1160.8	1159.63	1162.1	1160.93	252	0.04	17.1	1.959
Link512	Node479	Node480	Natural	1.3	0	3.5bot8top1.3deepNat	1	0	0	0	-0.28	1159.63	1160.37	1160.93	1161.67	261	0.04	13.37	0
Link627	Node479	Node501	Circular	0.833	0	0	1	0	0	0	9.91	1159.63	1064.63	1160.93	1066.3	958.31	0.013	6.89	1.959
Link513	Node480	Node481	Natural	1.3	0	3bot5top1.3deepNat	1	0	0	0	3.16	1160.37	1159.77	1161.67	1161.07	19	0.04	30.27	0
Link514	Node481	Node482	Natural	1.3	0	3bot5top1.3deepNat	1	0	0	0	-0.15	1159.77	1159.9	1161.07	1161.2	84	0.04	6.7	0
Link643	Node482	Node507	Natural	0.5	0	3bot4top0.5deepNat	1	0	0	0	9.45	1159.9	1063.948	1161.2	1065.948	1015.43	0.04	10.79	0
G-L007.1	G-N007.1	G-N006	Circular	1.5	0	0	1	0	0	0	0.28	895.67	894.84	901.47	902.44	293.46	0.013	5.59	5.967
G-L007.2	G-N007.2	G-N007.1	Circular	1.333	0	0	1	0	0	0	0.27	895.78	895.67	901.34	901.47	40.41	0.013	4	5.96
G-L087.1	G-N087.1	G-N088	Circular	2	0	0	1	0	0	0	0.76	937.16	932.87	944.17	939.72	567	0.01	25.58	10.959
G-L093.1	G-N093.1	G-N094	Circular	2	0	0	1	0	0	0	0.85	931.72	927.83	938.77	935.93	460	0.013	20.8	8.425

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Gilbert Links																			
G-L089.1	G-N089.1	G-N090	Circular	3	0	0	1	0	0	0	0.57	919.06	916.91	926.9	924.56	375	0.01	65.65	27.896
G-L096.1	G-N096.1	G-N097	Circular	3	0	0	1	0	0	0	0.55	919.09	915.72	927.2	923.22	618	0.013	49.25	36.364
G-L090	Node490	G-N091	Circular	1	0	0	1	0	0	0	0.39	915.06	913.617	924.56	921.867	371	0.013	2.22	1.686
G-L147.1	G-N147.1	G-N148	Circular	2	0	0	1	0	0	0	4.11	1074.51	1070.28	1080.6	1076.31	103	0.013	45.84	-0.242
G-L154.1	G-N154.1	G-N155	Circular	3.5	0	0	1	0	0	0	1.36	1058.4	1046	1065.45	1054.11	913	0.013	117.25	107.903
G-L182.1	G-N182.1	G-N183	Circular	3	0	0	1	0	0	0	2.83	1066.09	1059.32	1072.6	1064.62	239	0.013	112.26	48.608
G-L190.1	G-N190.1	G-N191	Circular	1.17	0	0	1	0	0	0	4.98	1152.96	1139.7	1158.84	1144.87	266	0.013	12.09	10.675
Link527	Node495	Node496	Circular	1	0	0	1	0	0	0	0.25	1065.4	1065.06	1067.1	1066.06	138	0.013	1.77	4.286
Link528	Node496	Node497	Natural	1	0	4bot7top1deepNat	1	0	0	0	0.08	1065.06	1064.967	1066.06	1065.967	117	0.014	4.64	4.282
Link529	Node497	Node498	Natural	1	0	5bot7top1deepNat	1	0	0	0	0.08	1064.967	1064.79	1065.967	1066.79	224	0.04	5.25	4.267
Link530	Node498	Node499	Natural	2	0	5bot9top2deepGun	1	0	0	0	0.16	1064.79	1064.34	1066.79	1066.34	283	0.022	45.23	4.244
Link531	Node499	Node500	Circular	2	0	0	1	0	0	0	0.09	1064.34	1064.22	1066.34	1066.3	132	0.024	3.69	4.238
Link532	Node500	Node501	Rectangular	1.67	0	0	1	0	0	4.67	0	1064.63	1064.63	1066.3	1066.3	22	0.017	1.56	-1.309
Link533	Node500	G-N138	Circular	1	0	0	1	0	0	0	5.79	1064.22	1044.04	1066.3	1051.54	348.28	0.013	8.58	5.129
Link534	Node501	Node503	Natural	1.6	0	5bot11top1.6 deepNW	1	0	0	0	0.28	1064.63	1063.89	1066.3	1065.89	269	0.045	23.4	0.65
Link535	Node503	Node504	Circular	2	0	0	1	0	0	0	-0.03	1063.89	1063.902	1065.89	1065.902	39	0.013	3.97	0.649
Link536	Node504	Node505	Circular	1.5	0	0	1	0	0	0	-0.03	1063.902	1063.912	1065.902	1065.412	32	0.013	1.86	0.649
Link537	Node505	Node506	Circular	1.5	0	6bot12top2deepNW	1	0	0	0	-0.03	1063.912	1063.937	1065.412	1065.437	81	0.013	1.85	0.649
Link538	Node506	Node507	Natural	1.5	0	6bot12top2deepNW	1	0	0	0	-0.03	1063.937	1063.948	1065.437	1065.948	38	0.045	7.34	0.649
Link539	Node507	Node508	Natural	2	0	6bot12top2deepNW	1	0	0	0	-0.03	1063.948	1063.96	1065.948	1065.96	39	0.045	12.81	0.649
Link540	Node507	G-N233	Circular	1	0	0	1	0	0	0	5.16	1063.948	1002	1065.948	1017	1200	0.013	0	0
Link541	Node508	Node509	Natural	1.5	0	6bot12top1.5deepNat	1	0	0	0	0.04	1063.96	1063.91	1065.96	1065.41	138	0.04	9.94	0.648
Link542	Node509	Node510	Circular	1.5	0	0	1	0	0	0	0.22	1063.91	1063.64	1065.41	1065.14	120	0.013	4.98	0.648
Link543	Node510	Node511	Natural	1.5	0	6bot12top1.5deepNat	1	0	0	0	0.28	1063.64	1063.41	1065.14	1067.41	82	0.04	27.65	0.648
Link544	Node511	Node512	Circular	2	0	0	1	0	0	0	-0.09	1063.41	1063.44	1067.41	1065.44	32.9	0.013	6.83	0.647
Link545	Node512	Node512.1	Natural	1.5	0	5bot9top1.5deepNat	1	0	0	0	-0.08	1063.44	1063.68	1065.44	1066.4	288	0.04	11.63	0.646
Link546	Node513	Node514	Circular	2	0	0	1	0	0	0	1.18	1063.77	1063.11	1066.77	1065.31	56	0.013	24.56	0.646
Link547	Node514	Node515	Natural	2.2	0	3bot9top2.2deepGun	1	0	0	0	0.22	1063.11	1062.13	1065.31	1065.13	436	0.022	49.42	0.646
Link548	Node515	Node516	Circular	2	0	0	1	0	0	0	0.98	1062.13	1061.58	1065.13	1064.58	56	0.013	22.42	0.646
Link549	Node516	Node516.2	Circular	2	0	0	1	0	0	0	-0.01	1061.58	1061.6	1064.58	1064.1	160	0.013	2.53	0.646
Link552	Node517	Node517.1	Natural	1.5	0	4bot6top1.5deepConc	1	0	0	0	0.15	1061.61	1061.4	1063.11	1063.4	144	0.017	24.8	0.645
Link549.1	Node516.1	Node517	Natural	1.5	0	4bot6top1.5deepConc	1	0	0	0	-0.01	1061.6	1061.61	1063.1	1063.11	82	0.017	7.17	0.646
Link549.2	Node516.2	Node516.1	Circular	1.5	0	0	1	0	0	0	0	1061.6	1061.6	1064.1	1063.1	24	0.024	0.18	0.646
Link554	Node520	Node522	Circular	2	0	0	1	0	0	0	0.06	1060.73	1060.63	1063.73	1063.63	181	0.013	5.32	0.643
Link552.1	Node517.1	Node520	Natural	2	0	5bot8top2deepNat	1	0	0	0	0.15	1061.4	1060.73	1063.4	1063.73	447	0.04	22.27	0.644
Link555	Node522	Node523	Circular	2	0	0	1	0	0	0	-0.34	1060.63	1061.33	1063.63	1064.33	203	0.013	13.28	0.643
Link556	Node523	Node524	Circular	2	0	0	1	0	0	0	0.78	1061.33	1060.77	1064.33	1063.47	72	0.013	19.95	0.643
Link557	Node524	Node524.1	Circular	1.5	0	0	1	0	0	0	0.1	1060.77	1060.67	1063.47	1063.63	99	0.013	3.34	0.643
Link559	Node525	Node527	Natural	1.5	0	4bot6top1.5deepGun	1	0	0	0	0.12	1060.29	1059.92	1062.49	1062.34	297	0.022	17.71	0.642
Link557.1	Node524.1	Node525	Circular	1.5	0	0	1	0	0	0	0.1	1060.67	1060.29	1063.63	1062.49	366	0.013	3.38	0.643
Link560	Node527	Node527.2	Natural	2.4	0	5bot11top2.4deepNat	1	0	0	0	-0.02	1059.92	1059.93	1062.34	1062.56	52	0.04	13.04	0.642
Link563	Node528	Node531	Natural	2.9	0	5bot11top2.9deepNat	1	0	0	0	0.26	1059.93	1059.31	1062.88	1062.21	236	0.04	63.87	-1.124

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Gilbert Links																			
Link560.1	Node527.1	Node528	Natural	2.6	0	5bot11top2.6deepNat	1	0	0	0	0	1059.93	1059.93	1062.61	1062.88	143	0.04	3.35	0.642
Link560.2	Node527.2	Node527.1	Circular	2	0	0	1	0	0	0	0	1059.93	1059.93	1062.56	1062.61	20	0.024	0.39	0.642
Link564	Node531	Node531.1	Natural	2	0	3bot5top2deepConc	1	0	0	0	0.22	1059.31	1059.22	1062.21	1062.12	40	0.017	34.71	-1.819
Link565	Node532	Node532.1	Circular	2	0	0	1	0	0	0	-1.3	1040.69	1042.46	1062.68	1062.43	136	0.013	25.81	-2.883
Link567	Node533	Node535	Natural	3	0	4bot8top3deepNat	1	0	0	0	0.03	1057.34	1057.314	1060.34	1060.314	99	0.04	14.86	2.552
Link564.1	Node531.1	Node532	Natural	2.9	0	5bot11top2.9deepNat	1	0	0	0	0.23	1059.22	1058.88	1062.12	1062.68	151	0.04	59.13	-2.42
Link568	Node535	Node536	Circular	2	0	0	1	0	0	0	0.03	1057.314	1057.3	1060.314	1060.3	56	0.013	3.58	2.494
Link569	Node536	Node536.1	Natural	3	0	3.5bot10top3dpRubber	1	0	0	0	0.05	1057.3	1057.15	1060.3	1060.15	275	0.015	65.16	2.485
Link571	Node537	Node539	Natural	3	0	6bot12top3deepNat	1	0	0	0	-2.81	1057.08	1061.46	1060.08	1067.46	156	0.04	254.56	0
Link569.1	Node536.1	Node537	Natural	2	0	3.5bot7.5top2dpConc	1	0	0	0	0.05	1057.15	1057.08	1060.15	1060.08	134	0.017	24.83	2.075
Link573	Node539	Node541	Circular	2	0	0	1	0	0	0	1.73	1061.46	1059.176	1067.46	1063.176	132	0.013	29.76	0
G-L207.1	G-N207.1	G-N207.1.1	Circular	2.5	0	0	1	0	0	0	4.76	1163.99	1162.8	1169.74	1168.8	25	0.013	89.49	89.462
Link574	Node541	Node542	Circular	2	0	0	1	0	0	0	1.74	1059.176	1054.75	1063.176	1058.57	255	0.013	29.8	0
Link575	Node542	Node543	Circular	1.5	0	0	1	0	0	0	0.3	1054.75	1054.18	1058.57	1057.08	193	0.013	5.71	0
Link576	Node543	Node544	Circular	1.5	0	0	1	0	0	0	0.09	1054.18	1053.81	1057.08	1055.91	435	0.013	3.06	0
Link577	Node544	Node544.3	Natural	1.9	0	5bot9top1.9deepNat	1	0	0	0	-0.04	1053.81	1053.89	1055.91	1055.94	208	0.04	11.33	-0.038
Link583	Node545	Node545.3	Natural	1.9	0	4.5bot8.5top1.9dpGun	1	0	0	0	0.23	1054.02	1053.76	1055.98	1055.8	111	0.022	46.42	-0.279
Link577.1	Node544.1	Node545	Natural	1.9	0	4.5bot8.5top1.9dpGun	1	0	0	0	-0.04	1053.94	1054.02	1055.95	1055.98	224	0.022	18.13	-0.178
Link577.2	Node544.2	Node544.1	Circular	1.5	0	4.5bot9.5top1.9dpGun	1	0	0	0	-0.07	1053.93	1053.94	1055.95	1055.95	14	0.024	1.52	-0.072
Link577.3	Node544.3	Node544.2	Natural	1.9	0	4.5bot8.5top1.9dpGun	1	0	0	0	-0.04	1053.89	1053.93	1055.94	1055.95	110	0.022	18.29	-0.066
Link587	Node551	Node551.1	Natural	1.9	0	5bot9top1.9deepNat	1	0	0	0	-0.2	1052.32	1052.61	1054.87	1054.51	143	0.04	26.02	0.744
Link583.1	Node545.1	Node551	Natural	1.9	0	6bot10top2.5deepNat	1	0	0	0	0.24	1052.74	1052.32	1055.14	1054.87	173	0.04	57.07	0.925
Link632	Node545.1	Node545.2	Circular	1.25	0	3bot4top0.5deepNat	1	0	0	0	6.27	1052.74	1052.05	1055.14	1054.45	11	0.013	16.18	3.566
Link583.2	G76	Node545.1	Natural	1.9	0	5bot9top2.5deepNat	1	0	0	0	0.24	1053.69	1052.74	1055.76	1055.14	394	0.04	47.82	4.491
Link583.3	Node545.3	G76	Circular	1.5	0	0	1	0	0	0	0.25	1053.76	1053.69	1055.8	1055.76	28	0.024	2.84	-0.327
Link588	Node555	Node556	Natural	1.8	0	7bot11top1.8deepNat	1	0	0	0	0.03	1052.86	1052.83	1054.68	1054.63	97	0.04	12.66	0.463
Link590	Node556	Node556.2	Circular	1.5	0	0	1	0	0	0	0.13	1052.83	1052	1054.63	1054.05	646	0.013	3.77	0.375
Link587.1	Node551.1	Node555	Natural	1.8	0	7bot11top1.8deepNat	1	0	0	0	-0.2	1052.61	1052.86	1054.51	1054.68	127	0.04	31.94	0.584
Link591	G60	Node559	Circular	1.5	0	0	1	0	0	0	-0.06	1051.38	1051.5	1054.38	1054.5	185	0.013	2.68	2.343
Link594	Node559	Node559.1	Circular	1.5	0	0	1	0	0	0	39.95	1051.5	1025.93	1054.5	1027.43	64	0.014	61.65	2.338
Link590.1	Node556.1	G60	Circular	1.5	0	0	1	0	0	0	0.13	1051.72	1051.38	1054.2	1054.38	264	0.013	3.77	0.453
Link590.2	Node556.2	Node556.1	Circular	2	0	0	1	0	0	0	0.13	1052	1051.72	1054.05	1054.2	221	0.013	8.05	0.392
Link596	Node562	Node564	Circular	1.5	0	0	1	0	0	0	11.08	1050.5	1030.67	1053.5	1036.62	179	0.013	34.96	0
Link594.1	Node559.1	Node562	Circular	1.5	0	0	1	0	0	0	-24.09	1025.93	1050.5	1027.43	1053.5	102	0.014	47.87	0
Link633	Node559.1	G73	Circular	1.5	0	0	1	0	0	0	4.5	1025.93	1024.49	1027.43	1025.99	32	0.014	20.69	2.336
Link597	Node564	Node565	Circular	1.5	0	0	1	0	0	0	0	1030.67	1030.67	1036.62	1063.62	341	0.013	0.33	0
Link598	Node565	Node565.2	Circular	0.833	0	0	1	0	0	0	5.49	1034	1022.89	1063.62	1040.51	202.26	0.014	4.76	0
Link599	Node566	Node567	Circular	1	0	0	1	0	0	0	4.61	1004.44	995.58	1009.44	1000.28	192	0.013	7.65	0
Link600	Node567	Node568	Circular	1	0	0	1	0	0	0	2.62	995.58	989.79	1000.28	994.59	221	0.013	5.77	0
Link601	Node568	Node569	Circular	1	0	0	1	0	0	0	3.71	989.79	986.67	994.59	992.67	84	0.013	6.87	0
Link602	Node569	G58 G75	Circular	1	0	0	1	0	0	0	12.09	986.67	949.19	992.67	951.19	310	0.013	12.39	0
Link603	G58 G75	Node571	Natural	2	0	5bot25top2deepNW	1	0	0	0	2.68	949.19	946.4	951.19	948.4	104	0.045	181.32	10.13

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Gilbert Links																			
Link604	Node571	Node572	Circular	1.5	0	0	1	0	0	0	1.56	946.4	945.9	948.4	948.4	32	0.013	13.13	10.062
Link605	Node572	Node573	Natural	1.7	0	3bot3top1.7deepNat	1	0	0	0	0.26	945.9	945.61	948.4	947.62	110	0.04	19.85	9.977
Link606	Node573	node5769	Natural	1.7	0	3bot3top1.7deepNat	1	0	0	0	0.27	945.61	944.97	947.62	947.22	237	0.04	20.09	9.656
Link607	node5769	G61	Circular	2	0	0	1	0	0	0	0	944.97	944.97	947.22	947.22	5	0.014	0.66	10.094
Link608	G61	Node576	Natural	2.1	0	2bot8top2.1deepNat	1	0	0	0	0.77	944.97	942.11	947.22	944.21	371	0.04	37.07	14.996
Link609	Node576	Node577	Circular	1.5	0	0	1	0	0	0	3.3	942.11	941.45	944.21	943.55	20	0.024	10.34	14.67
Link610	Node577	Node578	Natural	1.8	0	4bot10top1.8deepGun	1	0	0	0	-0.01	941.45	941.47	943.55	943.27	137	0.022	11.26	14.68
Link614	Node580	G-N157	Special	3.5	0	0	1	0	0	0	3.22	1112.14	1108.66	1117.34	1116.51	107.95	0.024	54.48	16.325
Link613.1	Node334.1	Node580	Circular	3	0	0	1	0	0	0	4.19	1130.12	1112.14	1133.12	1117.34	429	0.024	73.96	16.325
Link613.2	Node334.2	Node334.1	Circular	1.5	0	0	1	0	0	0	4.19	1144.29	1130.12	1147.29	1133.12	338	0.014	19.97	16.325
Link613.3	Node334.3	Node334.2	Circular	3	0	0	1	0	0	0	4.19	1149.82	1144.29	1153.32	1147.29	132	0.024	73.95	16.325
Link613.4	Node334.4	Node334.3	Special	3.5	2.25	0	1	0	0	0	4.19	1163.44	1149.82	1166.94	1153.32	325	0.024	62.11	16.325
Link619	Node585	Node334.4	Circular	1.5	0	0	1	0	0	0	3.17	1165.884	1163.44	1170.884	1166.94	77	0.024	10.14	16.325
GcreekEst	Node586	G-N216	0	0	0	0	0	0	0	0	0	0	0	1173.51	1175.161	0	0	20.58	14.184
G-L214.1	G-N214.1	G-N207.1	Circular	2	0	0	1	2	2	8	6.43	1170.65	1164.41	1182.92	1169.74	97	0.013	57.38	72.928
Link545.1	Node512.1	Node513	Natural	1.5	0	5bot9top1.5deepNat	1	0	0	0	-0.08	1063.68	1063.77	1066.4	1066.77	111	0.04	11.47	0.646
starlite	Node512.1	Node644	0	0	0	0	0	0	0	0	0	0	0	1066.4	1066.4	0	0	0	0
G-L234.1	G-N234.1	G-N235	Natural	0	0	G-X234	1	0	0	0	0.94	991.28	990	1015.92	1015	136	0.035	18545.66	636.593
Link634	G73	G-N042	Natural	0.5	0	6bot7top0.5deepNat	1	0	0	0	4.91	1024.49	935.85	1025.99	939.05	1803.96	0.04	15.44	5.229
Link598.1	Node565.1	Node566	Circular	0.833	0	0	1	0	0	0	5.5	1010.69	1007.94	1015.15	1009.44	50	0.014	4.77	0
Link598.2	Node565.2	Node565.1	Circular	1.5	0	0	1	0	0	0	5.5	1022.89	1010.69	1040.51	1015.15	222	0.014	22.87	0
Link487.1	Node450.1	Node456	Circular	1.67	0	0	1	0	0	0	0.4	1163.248	1163.2	1166.924	1166.9	12	0.013	8.85	7.164
Link639	Node596	Node596.1	Rectangular	2	0	0	1	0	0	1.8	3.64	968.53	966.49	978.03	974.41	56	0.02	31.02	11.239
Link639.1	Node596.1	G-N039	Trapezoidal	0.5	0	0	1	1	1	4	3.66	966.49	962.68	974.41	967.68	104.22	0.035	10.17	11.237
641.3	Node598	Node596	0	0	0	0	0	0	0	0	0	0	0	978.03	978.03	0	0	0	0
641.1	Node598	Node596	0	0	0	0	0	0	0	0	0	0	0	978.03	978.03	0	0	6.3	11.24
641.2	Node598	Node596	0	0	0	0	0	0	0	0	0	0	0	978.03	978.03	0	0	1.09	0
Link642	G28 G59	Node598	Circular	2	0	0	1	0	0	0	6.27	975.573	972	978.03	978.03	57	0.013	56.64	15.64
Link622.1	Node422.1	G-N201	Circular	1	0	0	1	0	0	0	3.11	1158.28	1142	1163.14	1146	524	0.017	4.8	5.732
sk15	Node603	Node604	0	0	0	0	0	0	0	0	0	0	0	1102.67	1102.67	0	0	0	80.267
sk14	Node603	Node604	0	0	0	0	0	0	0	0	0	0	0	1102.67	1102.67	0	0	6.3	12.061
Link647	Node604	G-N224	Circular	3	0	0	1	0	0	0	2.55	1095	1089.4	1102.67	1115	220	0.013	106.41	92.182
Link649	Node605	G-N042	Circular	1	0	0	1	0	0	0	0.2	936.85	936.24	939.95	939.05	307	0.013	1.59	-0.107
Link650	Node606	Node605	Circular	1	0	0	1	0	0	0	2.28	939.8	937.05	946.42	939.95	120.5	0.013	5.38	0
Link651	Node607	Node606	Circular	1	0	0	1	0	0	0	7.17	961.5	940	969.53	946.42	300	0.013	9.54	0
Link652	Node608	Node607	Circular	1	0	0	1	0	0	0	4.55	971.65	961.7	977.05	969.53	218.5	0.013	7.6	0
Link653	Node609	Node608	Circular	1	0	0	1	0	0	0	5.77	980	971.85	987.88	977.05	141.3	0.013	8.56	0
Link654	Node610	Node609	Circular	1	0	0	1	0	0	0	3.13	982	981	984.96	987.88	31.9	0.013	6.31	0
Link425.1	Node391.1	Node391..1	Circular	4	0	0	1	1	1	3	4.26	1154.23	1132.44	1160.25	1137.94	511	0.013	296.62	105.224
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
trailerw	Node613	Node613.3	0	0	0	0	0	0	0	0	0	0	0	1149	1147.66	0	0	0	10.607
trailero	Node613	Node613.3	0	0	0	0	0	0	0	0	0	0	0	1149	1147.66	0	0	1.11	3.029

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Gilbert Links																			
G-L040.1	G-N040.1	G-N041	Circular	2.25	0	0	1	0	0	0	3.21	940.19	938.84	942.72	941.34	42	0.013	55.52	13.83
rockretain	Node616	Node422	0	0	0	0	0	0	0	0	0	0	0	1165.07	1165.07	0	0	0	-12.856
rckretain2	Node616	Node422	0	0	0	0	0	0	0	0	0	0	0	1165.07	1165.07	0	0	6.3	-5.318
Link425.2	Node391..1	Node603	Natural	4	0	22bot30top4deepNat	1	1	1	3	4.26	1132.44	1098	1137.94	1102.67	807.61	0.04	1704.24	103.416
Link425.3	Node391.2	Node391.1	Natural	4	0	22bot30top4deepNat	1	1	1	3	4.26	1167.79	1154.23	1174.14	1160.25	318	0.04	1704.18	105.86
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G-L168.1	G-N168.1	G-N169-2	Circular	3	0	0	1	0	0	0	4.44	1065.17	1058.95	1078.77	1071	140	0.013	140.59	68.569
G-L159.1	G-N159.1	G-N167	Circular	3.5	0	0	1	0	0	0	1.3	1093.5	1089.32	1101.96	1097.57	321	0.013	114.81	37.21
G-L215.1	Node36.1	G-N201	Special	3.4	0	0	1	3	3	8	2.23	1142.67	1142	1145.68	1146	30	0.013	83.71	95.086
G-L215.2	Node36.2	Node36.1	Natural	2	0	3bot8top2deepNat	1	3	3	8	2.22	1149.31	1142.67	1152.06	1144.83	299	0.04	67.61	96.945
G-L215.3	Node36.3	Node36.2	Circular	2.75	0	3bot8top2deepNat	1	3	3	8	2.2	1149.75	1149.31	1152.5	1152.06	20	0.013	78.44	96.942
G-L215.4	Node36.4	Node36.3	Natural	2	0	3bot8top2deepNat	1	3	3	8	2.21	1150.5	1149.75	1153.25	1152.5	34	0.04	67.38	96.962
Link681	Node636	Node637	Special	3.4	2.25	0	1	0	0	0	2.22	1153.516	1153.027	1156.27	1155.78	22	0.013	83.51	97.039
Link682	Node637	Node638	Natural	2	0	3bot8top2deepNat	1	0	0	0	2.22	1153.027	1150.889	1155.78	1153.639	96.32	0.04	67.59	97.022
Link683	Node638	Node36.4	Circular	2.75	0	0	1	0	0	0	2.16	1150.889	1150.5	1153.639	1153.25	18	0.013	77.75	96.973
Link658.1	Node613.1	G-N145	Circular	2	0	0	1	0	0	0	3.35	1121.08	1097.15	1131	1102.75	715	0.013	41.39	13.631
Link658.2	Node613.2	Node613.1	Circular	2	0	0	1	0	0	0	1.22	1121.75	1121.08	1130	1131	55	0.013	24.97	13.633
Link658.3	Node613.3	Node613.2	Circular	2	0	0	1	0	0	0	9.93	1145	1121.75	1147.66	1130	234.11	0.013	71.29	13.633
G-L207.1.1	G-N207.1.1	Node36	Circular	2.5	0	0	1	0	0	0	3.36	1162.63	1158.43	1168.8	1165.68	125	0.013	75.19	89.461
Link632.1	Node545.2	G28 G59	Natural	0.5	0	3bot4top0.5deepNat	1	0	0	0	6.27	1052.05	975.57	1054.45	978.03	1220	0.04	8.78	3.501
Link631	Node644	G-N234.1	Circular	1	0	0	1	0	0	0	6.47	1059.6	991.28	1066.4	1015.92	1055.55	0.013	9.06	0
Link565.1	Node532.1	Node533	Circular	2	0	0	1	0	0	0	-1.3	1042.46	1057.34	1062.43	1060.34	1144	0.013	25.8	2.845
spill 7	Node532.1	G-N281	0	0	0	0	0	0	0	0	0	0	0	1062.43	1069	0	0	6.3	-5.207

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sand Links																			
SA-N009L2	SA-N009	SA-N010	Natural	0	0	SA-N009XS2	1	0	0	0	0.31	930	929	938.84	937	325.8	0	777.06	667.575
SA-N066L	SA-N066	SA-N067	Natural	0	0	SA-N066XS	1	0	0	0	4.68	909	873.73	933.69	898.42	753.7	0	69297.11	97.739
SA-N070L	SA-N070	SA-N071	Trapezoidal	3	0	SA-N070XS	1	0.83	0.83	3	0.39	915	912	918	915	769.5	0.02	101.45	53.778
SA-N123L2	SA-N122	SA-N123	Circular	3	0	0	1	0	0	0	0.45	908.48	906.93	921.2	920.44	344	0.013	44.77	46.665
SA-N144L	SA-N144	SA-N145	Circular	3.5	0	0	1	0	0	0	1.06	900.68	899	908.58	906	158	0.013	103.74	106.525
SA-N132L	SA-N132	SA-N133	Trapezoidal	3	0	0	1	1	1	2	1.02	914.38	911.33	917.4	915.5	300.2	0.024	118.86	2.363
SA-N131L	SA-N131	SA-N132	Circular	1	0	0	1	0	0	0	0.81	913.72	910.69	918.77	917.4	372.9	0.013	3.21	2.392
SA-N134L	SA-N134	SA-N133	Circular	1	0	0	1	0	0	0	1.19	914.42	909.1	919.42	915.5	445.4	0.013	3.89	4.754
SA-N145L	SA-N145	SA-N146	Circular	3.5	0	0	1	0	0	0	2.13	899	893.91	906	902.89	239.1	0.013	146.79	114.952
SA-N007L1	SA-N007	SA-N008	Rectangular	6	0	0	1	0	0	20	0	931	931	940	940	34.6	0.02	49.24	621.717
SA-N007L2	SA-N007	SA-N008	Trapezoidal	2	0	0	1	1	1	100	0	938	938	940	940	50	0.014	106.17	0
SA-N003L1	SA-N003	SA-N004	Rectangular	7	0	0	2	0	0	10	0.72	949	948.5	959.79	959.5	69.3	0.02	714.96	567.488
SA-N003L2	SA-N003	SA-N004	Trapezoidal	1	0	0	1	1	1	200	0	958	958	959.79	959.5	69.3	0.014	67.06	0
SA-N011L	SA-N011	SA-N012	Natural	0	0	SA-N011XS	1	0	0	0	0.5	928	923	937	930	996.2	0	786.48	663.12
SA-N013L	SA-N013	SA-N014	Natural	0	0	SA-N013XS	1	0	0	0	0.74	923	883	930	891	5402.4	0	1112.98	710.46
SA-N029L	SA-N029	SA-N030	Special	4.3	0	5bot17top4.3deepNW	1	0	0	8	0.16	937.72	937.55	943.32	943.8	105	0.024	19.08	34.005
SA-N014L	SA-N014	SA-N015	Rectangular	8	0	0	1	0	0	20	0	883	883	891	899	62.9	0.02	75.69	703.979
SA-N069L	SA-N069	SA-N070	Circular	2.5	0	0	1	0	0	0	0.14	916.9	915	927.34	918	1326.9	0.013	15.52	32.968
SA-N057L1	SA-N057	SA-N058	Rectangular	2.33	0	0	1	0	0	8.5	3.63	923.82	921.12	927	930.52	74.3	0.013	406.55	93.071
SA-N005L1	SA-N005	SA-N006	Rectangular	8	0	0	1	0	0	10	1.32	940	938	954	954	151.6	0.02	1162.61	292.994
SA-N005L2	SA-N005	SA-N006	Trapezoidal	2	0	0	1	1	1	100	0	952	952	954	954	100	0.014	106.17	0
SA-N005L3	SA-N005	SA-N006	Rectangular	8	0	0	1	0	0	10	1.32	940	938	954	954	151.2	0.02	1164.15	293.419
SA-N080L	SA-N080	SA-N080.1	Circular	2	0	0	1	0	0	0	0.17	900.36	900.01	910.57	910.58	209.7	0.013	9.24	14.697
SA-N102L	SA-N102	SA-N102.1	Natural	0	0	SA-N102XS	1	0	0	0	0.66	905.04	901.87	913	909.26	481.3	0	162.28	122.105
SA-N140L	SA-N140	SA-N140.1	Circular	2.25	0	0	1	0	0	0	0.36	918.87	916.52	928.23	929.1	655.3	0.013	18.55	16.682
SA-N159L	SA-N159	SA-N159.1	Circular	1.5	0	0	1	0	0	0	0.36	915.46	914.2	918.96	918.59	345.8	0.013	6.34	8.135
SA-N025L	SA-N025	SA-N026	Rectangular	3	0	0	1	0	0	6	0.16	938.16	938.04	943.86	944.64	75	0.013	82.3	47.231
SA-N147L1	SA-N147	SA-N148	Rectangular	5	0	0	1	0	0	18	0.14	890	889.9	897	897.5	70.1	0.02	395.09	169.832
SA-N147L2	SA-N147	SA-N148	Trapezoidal	1	0	0	1	1	1	100	0	896	896	897	897.5	50	0.014	33.5	0
SA-N104L1	SA-N104	SA-N105	Circular	2	0	0	2	0	0	0	1.44	889	888	897	897	69.3	0.013	27.18	60.962
SA-N104L2	SA-N104	SA-N105	Special	2.33	0	0	2	0	0	0	1.44	889	888	897	897	69.3	0.023	40.64	84.618
SA-N104L3	SA-N104	SA-N105	Trapezoidal	1	0	0	1	1	1	100	0	895	895	897	897	50	0.014	33.5	39.899
SA-N068L	SA-N068	SA-N068.2	Circular	1.25	0	0	1	0	0	0	1.08	930.13	925.21	934.65	931.58	456.7	0.013	6.7	2.258
SA-N072L	SA-N072	SA-N073	Circular	3	0	0	1	0	0	0	0.39	911.5	910.18	915	914	338	0.02	27.09	30.565
SA-N084L	SA-N084	SA-N084.1	Circular	1.25	0	0	1	0	0	0	1.07	902.63	901.83	909.96	910.35	74.8	0.013	6.68	10.009
SA-N168L	SA-N168	SA-N168.2	Circular	1	0	0	1	0	0	0	0.62	905.35	903.58	911.65	910.31	284.1	0.013	2.81	3.141
SA-N169L	SA-N169	SA-N145	Circular	1.5	0	0	1	0	0	0	0.81	901.25	899	908.55	906	276.7	0.013	9.47	3.113
SA-N137L	SA-N137	SA-N137.1	Circular	1.5	0	0	1	0	0	0	1.07	926.05	922.31	931.95	926.08	638.38	0.013	8.04	10.891
SA-N136L	SA-N136	SA-N137	Circular	1.5	0	0	1	0	0	0	0.78	927.5	926.05	931.7	931.95	185.6	0.013	9.28	4.775
SA-N121L	SA-N121	SA-N122	Circular	3	0	0	1	0	0	0	0.81	916.54	908.48	925.68	921.2	1000.2	0.013	59.87	24.177
SA-N146L	SA-N146	SA-N147	Natural	0	0	SA-N146XS	1	0	0	0	0.34	893.91	890	902.89	897	1159.1	0	414.89	112.287

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sand Links																			
SA-N133L1	SA-N133	SA-N133A	Circular	2	0	0	1	0	0	0	0.2	911.33	911.23	915.5	915.5	50	0.024	5.48	14.514
SA-N133L2	SA-N133	SA-N133A	Trapezoidal	1	0	0	1	1	1	100	0	914.5	914.5	915.5	915.5	50	0.014	33.5	0
SA-N135L	SA-N135	SA-N136	Circular	1.25	0	0	1	0	0	0	0.57	928.81	927.5	933.08	931.7	230.4	0.013	4.87	4.86
SA-N138L	SA-N138	SA-N139	Circular	2.5	0	0	1	0	0	0	0.24	922.06	921.75	926.24	927.92	127.7	0.013	20.21	10.742
SA-N113L	SA-N113	SA-N097	Circular	1.25	0	0	1	0	0	0	0.7	912.58	911.24	920.22	920	192.4	0.013	5.39	1.737
Link375	SA-N139	Node356	Circular	3	0	0	1	0	0	0	0.2	921.75	921.65	927.92	927.81	48.9	0.013	30.16	24.512
SA-N160L	SA-N160	SA-N161	Circular	2	0	0	1	0	0	0	0.93	911.14	901.05	917.56	909.73	1086	0.013	21.81	19.86
SA-N128L	SA-N128	SA-N128.1	Circular	2	0	0	1	0	0	0	0.37	918.28	916.93	924.48	923.61	368.2	0.013	13.7	-3.589
SA-N129L	SA-N129	SA-N122	Circular	2.5	0	0	1	0	0	0	3.07	916.05	908.48	923.05	921.2	246.3	0.013	71.91	5.973
SA-N130L	SA-N130	SA-N130.1	Circular	1	0	0	1	0	0	0	1.13	918.77	914.05	921.97	921.62	418.1	0.013	3.79	3.947
SA-N124L	SA-N124	SA-N125	Circular	3	0	SA-N124XS	1	0	0	0	0.26	912.21	911.1	915.5	915.2	428.9	0.013	33.93	32.176
SA-N123L1	SA-N123	SA-N124	Circular	3	0	0	1	0	0	0	0.25	906.93	905.67	920.44	915.5	499.1	0.013	33.51	46.723
SA-N083L	SA-N083	SA-N084	Circular	1.25	0	0	1	0	0	0	0.83	906.54	902.63	912.8	909.96	471.5	0.013	5.88	5.656
SA-N078L	SA-N078	SA-N079	Circular	1.5	0	0	1	0	0	0	0.17	905.49	904.87	911.74	913.06	358.7	0.013	4.37	6.629
SA-N079L	SA-N079	SA-N080	Circular	1.5	0	0	1	0	0	0	0.38	904.87	903.69	913.06	910.57	312	0.013	6.46	6.666
SA-N081L	SA-N081	SA-N082	Circular	2.5	0	0	1	0	0	0	1.21	899.76	893	910.58	900	559.3	0.024	24.43	24.459
SA-N115L	SA-N115	SA-N115.1	Circular	1	0	0	1	0	0	0	0.35	914.19	912.32	917.64	915.82	535.1	0.013	2.11	2.146
SA-N117L	SA-N117	SA-N118	Circular	1.75	0	0	1	0	0	0	0.19	910.52	909.57	915.27	915.35	491.4	0.013	6.97	5.42
SA-N116L	SA-N116	SA-N117	Circular	2	0	0	1	0	0	0	1.2	911.92	910.52	915.43	915.27	116.7	0.013	24.78	-2.541
SA-N118L	SA-N118	SA-N100	Circular	1.75	0	0	1	0	0	0	0.26	909.57	908	915.35	912.6	606.7	0.013	8.06	13.432
SA-N119L	SA-N119	SA-N120	Circular	1	0	0	1	0	0	0	0.49	912.82	911.35	918.75	917.22	299.6	0.013	2.5	1.932
SA-N120L	SA-N120	SA-N118	Circular	1.5	0	0	1	0	0	0	0.58	911.35	909.57	917.22	915.35	304.5	0.013	8.03	2.408
SA-N100L1	SA-N100	SA-N101	Circular	3	0	0	2	0	0	0	0.73	908	907.57	912.6	912.6	58.7	0.024	30.92	84.603
SA-N101L	SA-N101	SA-N102	Natural	0	0	SA-N101XS	1	0	0	0	0.35	907.57	905.04	912.6	913	713.7	0	62.91	84.079
SA-N090L	SA-N090	SA-N090.1	Special	2.74	0	0	1	0	0	0	0.24	918.02	917.14	926.69	923.63	370.1	0.013	43.57	30.034
SA-N085L	SA-N085	SA-N085.2	Circular	1.25	0	0	1	0	0	0	0.07	923.47	923.33	929.15	928.45	205	0.013	1.69	9.482
SA-N091L	SA-N091	SA-N092	Special	3.4	0	0	1	0	0	0	0.1	916.09	915.8	921.32	919.5	276.8	0.013	46.17	61.738
SA-N093L	SA-N093	SA-N094	Circular	3.5	0	0	1	0	0	0	0.73	915.18	915	922.15	922.6	24.5	0.013	86.24	74.145
SA-N095L	SA-N095	SA-N096	Natural	0	0	SA-N095XS	1	0	0	0	0	915	915	921	921	224.1	0	174.83	72.789
416.1	SA-N096	SA-N097	Circular	4	0	0	2	0	0	0	0.69	912.98	911.74	921	920	179.3	0.013	119.46	72.502
SA-N097L	SA-N097	SA-N098	Natural	0	0	SA-N097XS	1	0	0	0	0	912	912	920	920	381.6	0	390.23	74.929
SA-N098L	SA-N098	SA-N099	Natural	0	0	SA-N098XS	1	0	0	0	0	912.5	912.5	920	916	238.4	0	96.74	73.493
SA-N099L	SA-N099	SA-N100	Natural	0	0	SA-N099XS	1	0	0	0	0.86	910.06	908	916	912.6	240.8	0	104.73	72.589
421.1&2	SA-N110	SA-N111	Circular	2	0	0	2	0	0	0	0.03	916.42	916.32	920.17	920.15	313.62	0.013	4.04	8.27
SA-N111L	SA-N111	SA-N091	Circular	2.5	0	0	1	0	0	0	0.14	916.32	916.09	920.15	921.32	162.01	0.013	15.45	8.183
SA-N112L	SA-N112	SA-N093	Circular	1	0	0	1	0	0	0	0.39	916.46	915.18	921.15	922.15	328	0.013	2.23	-0.115
SA-N074L	SA-N074	SA-N075	Circular	1.25	0	0	1	0	0	0	0.58	927.39	924.51	932.52	928.01	500.7	0.013	4.9	3.598
SA-N075L	SA-N075	SA-N076	Circular	1.25	0	0	1	0	0	0	0.73	924.51	922.22	928.01	925.9	313.7	0.013	5.52	4.928
SA-N076L	SA-N076	SA-N077	Circular	1.5	0	0	1	0	0	0	1.06	922.22	920.18	925.9	926.67	193	0.013	10.8	7.208
SA-N077L	SA-N077	SA-N069	Circular	1.5	0	0	1	0	0	0	0.37	920.18	918.4	926.67	927.34	485.3	0.013	6.36	8.755
SA-N056L	SA-N056	SA-N057	Natural	0	0	SA-N056XS	1	0	0	0	0.6	926.95	923.82	928.66	927	521.6	0	108.48	63.707
430.1	SA-N058	SA-N058.1	Circular	2	0	SA-N058XS	1	0	0	0	0.04	921.12	921.03	930.52	930.43	209.4	0.024	2.54	7.01

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sand Links																			
430.2&3	SA-N058	SA-N058.1	Circular	4	0	0	2	0	0	0	0.04	921.12	921.03	930.52	930.43	209.4	0.024	16.13	85.888
SA-N059L	SA-N059	SA-N060	Circular	4	0	0	2	0	0	0	0.6	920.95	920.7	930.35	925.4	41.6	0.024	60.32	89.36
SA-N060L	SA-N060	SA-N061	Natural	0	0	SA-N060XS	1	0	0	0	0.59	920.7	920.4	925.4	925.1	50.9	0	678.4	89.472
SA-N061L	SA-N061	SA-N062	Circular	4	0	0	2	0	0	0	5.52	920.4	918.02	925.1	923.57	43.1	0.013	337.55	89.62
SA-N062L	SA-N062	SA-N063	Natural	0	0	SA-N062XS	1	0	0	0	0.31	918.02	917.54	923.57	923.09	155.5	0	565.9	89.2
SA-N063L	SA-N063	SA-N064	Circular	4	0	0	2	0	0	0	0.3	917.54	917.44	923.09	921.44	33.3	0.013	78.72	88.602
SA-N064L	SA-N064	SA-N065	Natural	0	0	SA-N064XS	1	0	0	0	0.37	917.44	916.14	921.44	926.14	349.9	0	378.34	88.291
SA-N065L	SA-N065	SA-N066	Rectangular	3	0	0	1	1	1	5	5.22	916.14	909	926.14	933.69	136.9	0.013	375.08	97.654
SA-N050L	SA-N050	SA-N050.2	Circular	1.25	0	0	1	0	0	0	0.55	930.26	929.29	935.47	934.9	176	0.013	4.8	8.363
SA-N051L	SA-N051	SA-N052	Circular	2	0	0	1	0	0	0	0.01	923.57	923.56	931.53	928.1	175.9	0.013	1.71	8.314
SA-N053L	SA-N053	SA-N053.1	Special	1.6	0	0	1	0	0	0	8.38	923.56	905.69	926.56	908.69	213.2	0.024	32.7	17.755
SA-N052L	SA-N052	SA-N053	Special	1.66	0	0	1	0	0	0	0	923.56	923.56	928.1	926.56	131.6	0.024	0.36	15.525
SA-N055L	SA-N055	SA-N052	Special	1.66	0	0	1	0	0	0	0.57	927.16	926	933.91	928.1	202.3	0.024	8.55	7.213
SA-N033L	SA-N033	Node229	Circular	4	0	0	1	0	0	0	4.52	936.22	933.6	940.22	941.341	58	0.013	305.3	31.979
SA-N049L	SA-N049	SA-N032	Circular	2.5	0	0	1	0	0	0	0.56	936.96	936.41	941	940.75	99	0.013	30.57	0
234	SA-N031	Node228	Circular	3.5	0	0	1	0	0	0	1.63	936.6	935.1	940.99	942.65	92	0.013	128.47	15.89
234.1	SA-N031	Node228	Circular	3.5	0	0	1	0	0	0	1.63	936.6	935.1	940.99	942.65	92	0.013	128.47	15.89
SA-N032L	SA-N032	SA-N033	Circular	4	0	0	1	0	0	0	0.06	936.41	936.22	940.75	940.22	305	0.013	35.85	31.895
Link239	SA-N034	Node233	Circular	5	0	0	1	0	0	0	0.64	933.1	932.03	939.6	940.6	167	0.024	112.92	56.287
SA-N027L	SA-N027	SA-N028	Rectangular	3	0	0	1	0	0	6	1.32	937.9	936.84	944.26	942.44	80	0.013	236.84	30.19
Link282	SA-N027	Node282	Circular	2	0	0	1	0	0	0	1.04	936.23	927.7	944.26	934.03	819.84	0.013	23.08	19.267
SA-N022L	SA-N022	SA-N023	Circular	4	0	0	1	0	0	0	0.35	939.4	938.31	947.13	944.91	315	0.013	84.5	72.649
Link203	SA-N023	SA-N023.1	Natural	4.3	0	8bot18top4.3deepNat	1	0	0	0	-0.74	938.31	939.54	944.91	944.67	166	0.04	341.3	77.036
SA-N038L	SA-N038	SA-N023	Circular	1	0	0	1	0	0	0	1.51	945.53	940.76	951.23	944.91	314.9	0.013	4.38	3.08
SA-N047L	SA-N047	SA-N048	Circular	1	0	0	1	0	0	0	1.16	950.06	947.89	953.69	951.83	186.6	0.013	3.84	3.102
SA-N048L	SA-N048	SA-N046	Circular	1.5	0	0	1	0	0	0	5.45	947.89	946	951.83	951.89	34.7	0.013	24.52	3.099
SA-N040L	SA-N040	SA-N041	Circular	1.25	0	0	1	0	0	0	1.93	968.14	959.81	974.38	964.79	432.1	0.013	8.97	5.508
SA-N042L	SA-N042	SA-N043	Circular	0.67	0	0	1	0	0	0	11.09	957.9	953.42	963.9	959.06	40.4	0.013	4.08	2.566
SA-N043L	SA-N043	SA-N044	Circular	1.25	0	0	1	0	0	0	0.69	953.42	951.87	959.06	955.72	223.9	0.013	5.37	7.953
SA-N041L1	SA-N041	SA-N043	Circular	1.25	0	0	1	0	0	0	6.48	959.81	953.42	964.79	959.06	98.6	0.013	16.44	6.012
SA-N041L2	SA-N041	SA-N042	Circular	1.25	0	0	1	0	0	0	1.81	959.81	957.9	964.79	963.9	105.6	0.013	8.69	3.157
SA-N044L	SA-N044	SA-N045	Circular	1.75	0	0	1	0	0	0	2.02	951.87	947.76	955.72	952.51	203.4	0.013	22.52	12.225
SA-N045L	SA-N045	SA-N046	Circular	2.5	0	0	1	0	0	0	2.29	947.76	946	952.51	951.89	76.9	0.013	62.05	12.199
SA-N149L	SA-N149	SA-N150	Circular	1	0	0	1	0	0	0	1.26	924.05	922.16	926.3	927	150.4	0.013	3.99	2.518
SA-N150L	SA-N150	Node356	Circular	1	0	0	1	0	0	0	1.12	922.16	921.65	927	927.81	45.6	0.013	3.77	2.494
SA-N141L	SA-N141	SA-N142	Circular	3	0	0	1	0	0	0	0.37	914.82	910.57	930	920.32	1150.5	0.013	40.54	43.151
SA-N142L	SA-N142	SA-N143	Circular	3	0	0	1	0	0	0	0.65	910.57	906.21	920.32	914.46	674	0.013	53.64	60.244
SA-N154L	SA-N154	SA-N142	Circular	1.5	0	0	1	0	0	0	0.99	913.8	911.87	918.55	920.32	195.7	0.013	10.43	5.248
SA-N125L	SA-N125	SA-N125.1	Circular	3.5	0	SA-N125XS	1	0	0	0	0.4	911.1	910.71	915.2	915.54	97.3	0.013	63.7	33.829
SA-N126L1	SA-N126	SA-N127	Special	3.75	0	0	1	0	0	0	0.22	910.16	910.06	916	916	44.8	0.024	17.65	29.074
SA-N114L	SA-N114	SA-N097	Circular	1	0	0	1	0	0	0	0.24	911.6	911.24	917.38	920	150.8	0.013	1.74	3.937
SA-N018L	SA-N018	SA-N019	Natural	0	0	SA-N018XS	1	0	0	0	0.91	958.38	952.46	967.57	961.65	649.1	0	6170.85	83.415

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sand Links																			
SA-N019L	SA-N019	SA-N020	Circular	2.5	0	0	1	0	0	0	2.05	952.46	949.05	961.65	953.05	166.1	0.013	58.77	53.338
SA-N020L	SA-N020	SA-N006	Natural	0	0	SA-N020XS	1	0	0	0	1.22	949.05	938	953.05	954	903.1	0	838.82	53.339
SA-N006L	SA-N006	SA-N007	Natural	0	0	SA-N006XS	1	0	0	0	0.61	938	931	954	940	1138.6	0	1197.5	631.141
SA-N153L	SA-N153	SA-N153.1	Circular	1.25	0	0	1	0	0	0	0.53	916.28	915.24	919.38	919.03	197.2	0.013	4.69	1.443
SA-N155L	SA-N155	SA-N143	Circular	1.25	0	0	1	0	0	0	0.45	909.02	906.21	916.77	914.46	627.6	0.013	4.32	4.379
SA-N143L	SA-N143	SA-N144	Circular	3	0	0	1	0	0	0	0.72	906.21	900.68	914.46	908.58	772	0.013	56.45	73.38
SDWLW1	SA-N152	SA-N152.1	0	0	0	0	0	0	0	0	0	0	0	926.7	925.65	0	0	0	18.401
Link284.1	SA-N151	SA-N152	Natural	2	0	26bot30top2deepNW	1	0	0	0	0.73	927.8	924	931.6	926.7	520.75	0.1	231.06	19.637
Link222	SA-N028	Node218	Natural	4.3	0	6bot18top4.3deepNat	1	0	0	0	-0.46	936.84	937.81	942.44	943.51	209	0.04	239.6	29.914
Link280	SA-N028	SA-N028.1	Circular	0.38	0	0	1	0	0	0	1.63	936.8	933.5	942.44	938.56	202.75	0.024	0.19	0.281
Link227	SA-N030	Node222	Circular	4	0	0	1	0	0	0	0.16	937.55	937.44	943.8	942.84	70	0.013	56.94	33.822
SA-N026L	SA-N026	SA-N027	Circular	4	0	SA-N026XS	1	0	0	0	0.03	938.04	937.9	944.64	944.26	506	0.024	12.94	47.231
SA-N010L1	SA-N010	SA-N011	Rectangular	6.5	0	0	1	0	0	23	2.56	929	928	937	937	39.1	0.035	1886.67	665.367
SA-N010L2	SA-N010	SA-N011	Trapezoidal	2	0	0	1	1	1	100	0	935	935	937	937	50	0.013	114.34	0
SA-N008L	SA-N008	SA-N009	Natural	0	0	SA-N008XS	1	0	0	0	0.32	931	930	940	938.84	311	0	947.6	621.482
SA-N012L1	SA-N012	SA-N013	Rectangular	3	0	0	1	0	0	10	0	923	923	930	930	61.4	0.02	7.75	250.488
SA-N012L2	SA-N012	SA-N013	Rectangular	3	0	0	2	0	0	5.5	0	923	923	930	930	61.4	0.02	3.8	266.021
SA-N012L3	SA-N012	SA-N013	Trapezoidal	1	0	0	1	1	1	100	0	929	929	930	930	61.4	0.014	33.5	271.286
SA-N015L	SA-N015	SA-N016	Natural	0	0	SA-N015XS	1	0	0	0	1.85	883	859.16	899	875.16	1287.4	0	9417.16	703.308
SA-N148L	SA-N148	SA-N106	Natural	0	0	SA-N148XS	1	0	0	0	1.59	889.9	869.82	897.5	879.19	1266.8	0	3632.26	168.202
SA-N105L	SA-N105	SA-N106	Natural	0	0	SA-N105XS	1	0	0	0	0.53	888	869.82	897	879.19	3414.7	0	145.3	170.344
SA-N106L	SA-N106	SA-N107	Natural	0	0	SA-N106XS	1	0	0	0	1.19	869.82	862.13	879.19	868.13	644	0	497.87	305.62
SA-N127L	SA-N127	SA-N127.1	Circular	2.5	0	SA-N127XS	1	0	0	0	0.72	910.06	908.56	916	915.1	209.2	0.024	18.81	29.074
SA-N046L	SA-N046	SA-N024	Circular	2.5	0	0	1	0	0	0	1.89	946	940.04	951.89	945.11	315.7	0.013	56.36	22.206
SA-N086L	SA-N086	SA-N087	Circular	2.5	0	0	1	0	0	0	0.12	920.68	920.64	927.23	927.12	34.4	0.013	13.99	25.93
SA-N087L1	SA-N087	SA-N088	Circular	2.5	0	0	2	0	0	7	0.24	920.79	920.74	927.12	926.47	21.1	0.013	19.97	30.335
SA-N088L	SA-N088	SA-N090	Circular	3	0	0	1	5	5	3	3	919.49	918.12	926.47	926.69	45.6	0.013	115.61	30.325
SA-N094L	SA-N094	SA-N095	Natural	0	0	SA-N094XS	1	0	0	0	0.21	915	914.49	922.6	921	240.9	0	474.06	74.039
SA-N103L	SA-N103	SA-N104	Natural	0	0	SA-N103XS	1	0	0	0	0.62	891.49	889	897	897	401.8	0	972.4	184.349
SA-N161L	SA-N161	SA-N144	Circular	3	0	0	1	0	0	0	0.54	901.05	900.68	909.73	908.58	68.8	0.013	48.91	26.831
Link209	SA-N024	Node205	Natural	4.3	0	6bot18top4.3deepNat	1	0	0	0	0.33	940.04	939.33	945.11	944.1	218	0.04	200.71	64.933
SA-N004L	SA-N004	SA-N005	Natural	0	0	SA-N004XS	1	0	0	0	0.68	948.5	940	959.5	954	1247.5	0	351.35	562.029
SA-N092L	SA-N092	SA-N093	Natural	0	0	SA-N092XS	1	0	0	0	0.29	915.8	915.18	919.5	922.15	210.3	0	107.88	59.595
SA-N071L	SA-N071	SA-N072	Circular	3	0	0	1	0	0	0	0.33	912	911.5	915	915	153.1	0.02	24.78	32.488
SA-N039L	SA-N039	SA-N040	Circular	1.25	0	0	1	0	0	0	3.42	974.39	968.14	977.89	974.38	182.9	0.013	11.94	3.095
SA-N016L	SA-N016	R-N010	Trapezoidal	12	0	0	1	2	2	20	0.25	859.16	858.89	875.16	885.52	109.1	0.035	4145.72	703.016
SA-N002L	SA-N002	SA-N003	Natural	0	0	SA-N002XS	1	0	0	0	0.68	958.88	949	976.93	959.79	1444.6	0	2825.44	521.687
SA-N001L	SA-N001	SA-N002	Natural	0	0	SA-N001XS	1	0	0	0	1.03	982	958.88	1000.05	976.93	2241.5	0	7008.74	262.857
SA-N017L	SA-N017	SA-N002	Natural	0	0	SA-N017XS	1	0	0	0	2.24	1003.4	958.88	1005.1	976.93	1986.1	0	463.67	274.761
Link196	SA-N021	Node193	Circular	5	0	0	1	0	0	0	0.74	942.4	941.7	955.14	954.93	95	0.013	223.56	67.21
SA-N054L	SA-N054	R-N003	Trapezoidal	3	0	0	1	1	1	20	5.29	890.1	873.58	893.1	932.16	312.4	0.035	1215.07	49.057
SA-N067L	SA-N067	R-N004	Trapezoidal	3	0	0	1	1	1	20	0.12	873.73	873.6	898.42	923.75	111.4	0.035	180.5	116.448

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sand Links																			
SA-N082L	SA-N082	R-N006	Trapezoidal	5	0	0	1	1	1	20	18.59	893	871.19	900	913.94	117.3	0.035	5436.08	28.05
SA-N073L	SA-N073	R-N005	Trapezoidal	3.5	0	0	1	1	1	20	32.75	910.18	871.17	914	916.52	119.1	0.02	6866.54	31.707
SA-N167L	SA-N167	SA-N161	Natural	0	0	SA-N167XS	1	0	0	0	1.35	912.96	901.05	916	909.73	880.2	0	585.36	8.648
SA-N107L	SA-N107	R-N009	Trapezoidal	6	0	0	1	3	3	12	0.23	862.13	861.87	868.13	885.87	113.9	0.035	858.27	367.666
SA-N109L	SA-N109	SA-N086	Circular	2.5	0	0	1	0	0	0	0.2	921.32	920.96	926.86	927.23	180.8	0.024	9.91	17.239
SA-N108L	SA-N108	SA-N109	Circular	2	0	SA-N108XS	1	0	0	0	0.2	921.75	921.42	927.1	926.86	165.1	0.013	10.11	17.241
R-N001L	R-N001	R-N002	Natural	0	0	R-N001XS	1	0	0	0	0.08	876.71	875.37	933.04	933.95	1643.5	0	311849.67	2646.767
R-N011L	R-N011	R-N012	Natural	0	0	R-N011XS	1	0	0	0	0.02	859.1	858.69	885.73	874.22	2581.3	0	14377.65	3007.346
R-N002L	R-N002	R-N003	Natural	0	0	R-N002XS	1	0	0	0	0.15	875.37	873.58	933.95	932.16	1156	0	691761.92	2638.8
R-N003L	R-N003	R-N004	Natural	0	0	R-N003XS	1	0	0	0	0	873.58	873.6	932.16	923.75	1303.8	0	37775.94	2641.064
R-N004L	R-N004	R-N005	Natural	0	0	R-N004XS	1	0	0	0	0.16	873.6	871.17	923.75	916.52	1494.2	0	312402.96	2657.75
R-N005L	R-N005	R-N006	Natural	0	0	R-N005XS	1	0	0	0	0	871.17	871.19	916.52	913.94	1087.3	0	28218.79	2670.557
R-N006L	R-N006	R-N007	Natural	0	0	R-N006XS	1	0	0	0	0.18	871.19	867.81	913.94	903.57	1906.5	0	145388.76	2669.202
R-N007L	R-N007	R-N008	Natural	0	0	R-N007XS	1	0	0	0	0.07	867.81	865.73	903.57	901.49	2841	0	142305.45	2653.948
R-N008L	R-N008	R-N009	Natural	0	0	R-N008XS	1	0	0	0	0.12	865.73	861.87	901.49	885.87	3290.4	0	24772.47	2636.581
R-N009L	R-N009	R-N010	Natural	0	0	R-N009XS	1	0	0	0	0.1	861.87	858.89	885.87	885.52	3037.8	0	72331.77	2730.464
R-N010L	R-N010	R-N011	Natural	0	0	R-N010XS	1	0	0	0	-0.01	858.89	859.1	885.52	885.73	2440.8	0	22531.91	3001.803
SA-N133AL	SA-N133A	SA-N103	Trapezoidal	3	0	0	1	4	4	3	0.99	911.23	891.49	915.5	897	1991.56	0.035	262.62	11.968
SA-N166L	SA-N166	SA-N159	Circular	1.5	0	0	1	0	0	0	1.15	917	915.46	919.35	918.96	133.92	0.014	10.46	6.363
SA-N158L	SA-N158	SA-N159	Circular	1.5	0	0	1	0	0	0	0.47	916.1	915.46	919.66	918.96	137.05	0.014	6.67	4.886
SA-N172L1	SA-N172	SA-N158	Circular	0.5	0	0	1	0	0	0	0	916.1	916.1	920	919.66	50	0.014	0.02	0.841
Overflow1	SA-N172	SA-N158	0	0	0	0	0	0	0	0	0	0	0	920	919.66	0	0	0	-5.424
SA-N171L	SA-N171	SA-N172	Circular	1.5	0	0	1	0	0	0	0.26	915.48	915	922	920	185.89	0.014	4.96	6.534
SA-N170L	SA-N170	SA-N171	Circular	0.833	0	0	1	0	0	0	1.69	917.94	915.48	924.4	922	145.5	0.014	2.64	1.585
SA-N162L	SA-N162	SA-N162.1	Circular	1	0	0	1	0	0	0	0.42	919.56	917.67	922.56	920.9	445.93	0.014	2.15	1.503
SA-N157L	SA-N157	SA-N158	Circular	1.5	0	0	1	0	0	0	0.48	918.48	916.1	921.71	919.66	496.98	0.014	6.75	4.283
SA-N156L	SA-N156	SA-N157	Circular	1.5	0	0	1	0	0	0	0.1	919	918.48	924.78	921.71	512.06	0.014	3.11	1.257
SA-N164L	SA-N164	SA-N171	Circular	1.5	0	0	1	0	0	0	0.36	917.28	915.48	921.66	922	505.32	0.014	5.82	5.001
SA-N163L	SA-N163	SA-N164	Circular	1	0	0	1	0	0	0	0.93	919.36	917.28	922.75	921.66	224.38	0.014	3.19	3.258
Link197	Node193	Node194	Circular	5	0	0	1	0	0	0	-2.54	938.7	941.8	954.93	951.81	122	0.013	415.16	67.063
Link198	Node194	Node195	Circular	5	0	0	1	0	0	0	1.76	941.8	938.4	951.81	950.73	193	0.013	345.68	66.755
Link199	Node195	Node196	Circular	5	0	0	1	0	0	0	0.5	940.7	940.5	950.73	950.78	40	0.013	184.16	66.706
Link200	Node196	Node197	Circular	5	0	0	1	0	0	0	0.07	940.5	940.4	950.78	950.67	137	0.013	70.36	66.658
Link201	Node197	SA999	Circular	5	0	0	1	0	0	0	0.21	940.4	939.8	950.67	948	287	0.013	119.08	66.647
Link202	SA999	SA-N022	Circular	4	0	0	1	0	0	0	0.07	939.8	939.4	948	947.13	586	0.013	37.53	72.657
Link206	Node199	Node202	Natural	4.3	0	6bot18top4.3deepNat	1	0	0	0	0.12	940.18	939.97	944.54	944.27	176	0.04	121.49	75.823
Link203.1	SA-N023.1	Node199	Natural	4.3	0	6bot18top4.3deepNat	1	0	0	0	-0.74	939.54	940.18	944.67	944.54	86	0.04	303.4	76.4
Link207	Node202	SA-N024	Natural	4.3	0	6bot18top4.3deepNat	1	0	0	0	-0.03	939.97	940.04	944.27	945.11	249	0.04	58.97	75.427
Link208	Node203	Node204	Rectangular	3	0	0	1	0	0	10	0	939.34	939.34	942.34	942.34	4	0.04	3.88	47.231
Link215	Node204	Node204.1	Natural	3	0	8bot14top3deepNat	1	0	0	0	0.16	939.34	939.09	942.34	943.39	158	0.04	77.46	47.231
Link210	Node205	Node206	Natural	3.4	0	6bot18top3.4deepNat	1	0	0	0	-0.18	939.33	939.62	944.1	943.08	157	0.04	105.51	64.557
Link211	Node206	Node207	Natural	3.4	0	6bot18top3.4deepNat	1	0	0	0	0.2	939.62	939.22	943.08	943.87	201	0.04	109.52	63.911

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sand Links																			
Link212	Node207	Node208	Natural	4.3	0	6bot18top4.3deepNat	1	0	0	0	0.07	939.22	939	943.87	943.58	318	0.04	92.51	63.344
Link213	Node208	Node208.1	Natural	4.3	0	6bot18top4.3deepNat	1	0	0	0	-0.13	939	939.22	943.58	943.52	166	0.04	128.04	90.588
Link213.1	Node208.1	Node203	Natural	2.5	0	8bot14top2.5deepNat	1	0	0	0	-0.13	939.22	939.34	943.52	942.34	96	0.04	52.24	47.231
Link217	Node212	Node212.1	Natural	3.76	0	6bot18top3.76deepNat	1	0	0	0	0	938.89	938.89	942.65	943.19	98	0.04	9.07	47.231
Link215.1	Node204.1	Node212	Natural	3.4	0	6bot18top3.4deepNat	1	0	0	0	0.15	939.09	938.89	943.39	942.65	130	0.04	96.29	47.231
Link219	Node214	Node216	Rectangular	3	0	0	1	0	0	9	0	938.89	938.89	943.19	943.19	7	0.04	3.43	47.231
Link217.1	Node212.1	Node214	Natural	2.5	0	8bot14top2.5deepNat	1	0	0	0	0	938.89	938.89	943.19	943.19	119	0.04	4.67	47.231
Link220	Node216	Node217	Natural	3.4	0	8bot14top3.4deepNat	1	0	0	0	0.05	938.89	938.79	943.19	942.2	185	0.04	54.5	47.231
Link221	Node217	SA-N025	Natural	3.4	0	8bot14top3.4deepNat	1	0	0	0	0.38	938.79	938.16	942.2	943.86	164	0.04	145.28	47.231
Link223	Node218	Node219	Rectangular	3	0	0	1	0	0	6	0.26	937.81	937.62	943.51	943.32	74	0.013	104.26	29.914
Link224	Node219	Node220	Natural	4.3	0	5bot17top4.3deepNW	1	0	0	0	-0.03	937.62	937.72	943.32	942.32	325	0.045	55.75	29.914
Link225	Node220	Node221	Rectangular	4	0	0	1	0	0	5.25	-1	937.72	937.84	942.32	942.44	12	0.04	84.89	29.913
Link226	Node221	SA-N029	Natural	4.3	0	5bot17top4.3deepNW	1	0	0	0	1.09	937.84	937.72	942.44	943.32	11	0.045	331.97	29.913
Link228	Node222	Node223	Natural	4.5	0	7bot17top4.5deepGun	1	0	0	0	0.24	937.44	937.13	942.84	941.63	129	0.022	341.55	32.975
Link229	Node223	Node224	Natural	4.5	0	7bot17top4.5deepNat	1	0	0	0	0.21	937.13	936.64	941.63	941.62	230	0.04	176.88	31.525
Link230	Node224	Node224.1	Natural	4.5	0	7bot17top4.5deepNat	1	0	0	0	-0.03	936.64	936.68	941.62	941.37	145	0.04	63.65	31.564
Link232	Node225	SA-N031	Circular	3.9	0	0	1	0	0	0	0.08	936.76	936.6	940.85	940.99	210	0.04	12.04	31.733
Link230.1	Node224.1	Node225	Natural	3.9	0	6bot16top3.9deepNat	1	0	0	0	-0.03	936.68	936.76	941.37	940.85	249	0.04	49.72	31.647
445.1	Node227	SA-N032	Circular	3.5	0	0	1	0	0	0	-0.74	934.6	936.41	941.92	940.75	243	0.013	86.83	15.903
445.2	Node227	SA-N032	Circular	3.5	0	0	1	0	0	0	-0.74	934.6	936.41	941.92	940.75	243	0.013	86.83	15.903
233	Node228	Node227	Circular	3.5	0	0	1	0	0	0	0.43	935.1	934.6	942.65	941.92	116	0.013	66.05	15.896
233.1	Node228	Node227	Circular	3.5	0	0	1	0	0	0	0.43	935.1	934.6	942.65	941.92	116	0.013	66.05	15.896
Link235	Node229	Node230	Circular	4	0	0	1	0	0	0	-1.19	933.6	935.2	941.341	939.21	135	0.013	156.38	31.984
Link236	Node230	Node231	Natural	4	0	10bot15top4deepRck	1	0	0	0	-3.13	935.2	935.67	939.21	941.17	15	0.04	493.89	57.565
Link237	Node231	Node232	Rectangular	3	0	0	1	0	0	10	0.19	935.67	935.62	941.17	941.12	26	0.05	43.01	57.546
Link238	Node232	SA-N034	Natural	3	0	5bot10top4deepRck	1	0	0	0	4.5	935.62	933.1	941.12	939.6	56	0.05	206.5	57.488
Link240	Node233	Node234	Circular	5	0	0	1	0	0	0	0.86	932.3	931.24	940.6	940.89	123	0.024	130.96	56.287
Link241	Node234	Node235	Circular	5	0	0	1	0	0	0	0.64	931.24	929.91	940.89	938	208	0.024	112.81	56.287
Link242	Node235	Node236	Circular	5	0	0	1	0	0	0	0.13	929.91	929.29	938	936.31	479	0.024	50.75	56.287
Link243	Node236	Node237	Circular	5	0	0	1	0	0	0	0.12	929.29	928.69	936.31	937.61	497	0.024	49.02	56.287
Link244	Node237	Node238	Circular	5	0	0	1	0	0	0	0.12	928.69	928.46	937.61	935.52	196	0.024	48.33	50.6
Link307	Node237	Node273	Circular	0.5	0	0	1	0	0	0	3.8	930.69	930.5	937.61	932.5	5	0.013	1.09	5.688
Link245	Node238	Node239	Circular	5	0	0	1	0	0	0	0.12	928.46	928.22	935.52	936.93	204	0.024	48.39	50.6
Link246	Node239	Node240	Circular	5	0	0	1	0	0	0	0.12	928.22	927.95	936.93	937.89	224	0.024	48.98	50.6
Link247	Node240	Node241	Circular	5	0	0	1	0	0	0	-0.41	931.5	933	937.89	939.62	368	0.024	90.07	50.602
Link250	Node241	Node244	Circular	4	0	0	1	0	0	0	-9.23	933	934.2	939.62	939.62	13	0.024	236.39	50.609
Link249	Node242	Node243	Circular	4	0	0	1	0	0	0	0.5	934.41	934.15	938.41	938.41	52	0.024	55.02	0
Link248	Node244	Node245	Rectangular	4	0	0	1	0	0	5	-0.16	934.2	934.32	939.62	938.32	74	0.017	75.52	50.611
SandCrkSM	Node245	Node269	0	0	0	0	0	0	0	0	0	0	0	938.32	938.32	0	0	0	50.613
SandCrkSM2	Node245	Node270	0	0	0	0	0	0	0	0	0	0	0	938.32	938.32	0	0	0	0
SA-N050L.1	SA-N050.1	SA-N051	Circular	1.75	0	0	1	0	0	0	0.55	925.93	923.57	932.92	931.53	429	0.013	11.75	8.317
SA-N050L.2	SA-N050.2	SA-N050.1	Circular	1.5	0	0	1	0	0	0	0.55	929.29	925.93	934.9	932.92	613	0.013	7.78	8.32

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sand Links																			
SA-N053L.1	SA-N053.1	SA-N054	Circular	2	0	0	1	0	0	0	8.38	905.69	890.1	908.69	893.1	186	0.013	65.49	17.744
SA-N058L.1	SA-N058.1	SA-N059	Natural	0	0	SA-N058XS	1	0	0	0	0.05	921.03	920.95	930.43	930.35	177	0	917.49	90.611
SA-N068L.1	SA-N068.1	SA-N069	Circular	1.75	0	0	1	0	0	0	1.08	922.6	918.4	929.95	927.34	389	0.013	16.46	6.656
SA-N068L.2	SA-N068.2	SA-N068.1	Circular	1.5	0	0	1	0	0	0	1.08	925.21	922.6	931.58	929.95	242	0.013	10.91	6.685
SA-N084L.1	SA-N084.1	SA-N080	Circular	1.5	0	0	1	0	0	0	1.07	901.83	901.39	910.35	910.57	41	0.013	10.88	10.061
SA-N080L.1	SA-N080.1	SA-N081	Circular	2.5	0	0	1	0	0	0	0.17	900.01	899.76	910.58	910.58	149	0.013	16.8	14.767
SA-N115L.1	SA-N115.1	SA-N116	Circular	1.75	0	0	1	0	0	0	0.35	912.32	911.92	915.82	915.43	115	0.013	9.34	2.301
SA-N085L.1	SA-N085.1	SA-N085.5	Circular	1.75	0	0	1	0	0	0	0.6	923.26	920.74	928.11	927.67	416.7	0.013	12.32	9.58
SA-N085L.2	SA-N085.2	SA-N085.1	Circular	1.5	0	0	1	0	0	0	0.07	923.33	923.26	928.45	928.11	100	0.013	2.78	9.487
SA-N090L.1	SA-N090.1	SA-N091	Special	3.4	0	0	1	0	0	0	0.23	917.14	916.09	923.63	921.32	464	0.013	67.86	31.728
SA-N130L.1	SA-N130.1	SA-N130.4	Circular	1.25	0	0	1	0	0	0	1.12	914.05	913.15	921.62	921.55	80	0.013	6.85	3.961
SA-N130.L1	SA-N130.4	SA-N122	Circular	1.5	0	0	1	0	0	0	1.13	913.15	908.48	921.55	921.2	414	0.013	11.16	4.023
SA-N128L.1	SA-N128.1	SA-N129	Circular	2.5	0	0	1	0	0	0	0.37	916.93	916.05	923.61	923.05	239	0.013	24.89	3.762
SA-N125L.1	SA-N125.1	SA-N126	Natural	0	0	SA-N125XS	1	0	0	0	0.41	910.71	910.16	915.54	916	135	0	29.28	27.481
SA-N127L.1	SA-N127.1	SA-N102	Natural	0	0	SA-N127XS	1	0	0	0	0.72	908.56	905.04	915.1	913	490	0	281.75	29.073
SA-N162L.1	SA-N162.1	SA-N159	Circular	1.5	0	0	1	0	0	0	0.42	917.67	915.46	920.9	918.96	520	0.014	6.36	1.498
SA-N140L.1	SA-N140.1	SA-N140.2	Circular	2.5	0	0	1	0	0	0	0.26	916.52	915.48	929.1	930.12	403.5	0.013	20.82	15.105
SA-N159L.1	SA-N159.1	SA-N160	Circular	1.5	0	0	1	0	0	0	0.37	914.2	910.64	918.59	917.56	975	0.013	6.35	8.136
SA-N153L.1	SA-N153.1	SA-N154	Circular	1.5	0	0	1	0	0	0	0.53	915.24	913.8	919.03	918.55	272	0.013	7.64	2.011
SA-N168L.1	SA-N168.1	SA-N169	Circular	1.5	0	0	1	0	0	0	0.62	902.77	901.25	909.7	908.55	245	0.013	8.27	3.102
SA-N168L.2	SA-N168.2	SA-N168.1	Circular	1.25	0	0	1	0	0	0	0.62	903.58	902.77	910.31	909.7	130	0.013	5.1	3.089
Link276	Node269	SA-N009	Natural	4	0	4bot4top4deepConc	1	0	0	0	21.6	934.32	930	938.32	938.84	20	0.017	787.43	50.642
Link251	Node270	Node242	Rectangular	4	0	0	1	0	0	5	-0.3	934.32	934.41	938.32	938.41	30	0.017	102.72	0
Link280.1	SA-N028.1	SA-N068	Circular	1	0	0	1	0	0	0	1.65	933.5	930.13	938.56	934.65	204	0.024	2.48	0.281
Link284.3	Node273	Node273.2	Natural	2	0	26bot30top2deepNW	1	0	0	0	0.3	928.479	927	932.5	931.6	485	0.04	149.36	18.862
Link292	Node281	SA-N021	Circular	5	0	0	1	0	0	0	0.48	943.09	942.4	948.09	955.14	144	0.013	180.28	20.289
Link319	Node282	SA-N068.2	Circular	0.67	0	0	1	0	0	0	5.8	927.7	924.57	934.03	931.58	53.99	0.013	2.95	5.361
Link320	Node282	Node309	Circular	1.25	0	0	1	0	0	0	-2.79	927.7	930.6	934.03	932.27	104	0.013	10.79	11.991
SA-N139L.1	SA-N139.1	SA-N140	Circular	2.5	0	0	1	0	0	0	0.46	921.49	920.87	928.2	928.23	134	0.013	27.9	18.389
SA-N152L.1	SA-N152.1	Node387	Circular	2	0	0	1	0	0	0	4.6	919.8	918.9	925.65	927.84	20	0.013	47.99	18.401
Link284.2	Node273.2	SA-N151	Natural	2	0	26bot30top5deepNW	1	0	0	0	0.32	928.1	927.8	931.6	931.6	94	0.024	146.23	18.86
Link305	Node292	Node295	Circular	0.5	0	0	1	0	0	0	1.69	957	944	961	951.4	771	0.013	0.73	0.86
SDP5O1	Node293	Node344	0	0	0	0	0	0	0	0	0	0	0	956.3	936.9	0	0	0	3.992
SDP5O2	Node293	Node345	0	0	0	0	0	0	0	0	0	0	0	956.3	936.9	0	0	0	3.992
SDP5W3	Node293	Node346	0	0	0	0	0	0	0	0	0	0	0	956.3	936.9	0	0	0	2.659
SDP5W4	Node293	Node347	0	0	0	0	0	0	0	0	0	0	0	956.3	936.9	0	0	0	2.659
Link283	Node294	Node273	Circular	2	0	0	1	0	0	0	0.67	930.583	930.3	937.61	932.5	42.2	0.013	18.53	13.303
Link308	Node295	Node298	Circular	2	0	0	1	0	0	0	0.66	939.15	937.6	951.4	941	235.25	0.014	17.05	23.098
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SDP3W1	Node297	Node349	0	0	0	0	0	0	0	0	0	0	0	940.4	940.4	0	0	0	0
pond1baff1	Node298	Node299	0	0	0	0	0	0	0	0	0	0	0	941	941	0	0	0	17.119
SDW1	Node299	Node300	0	0	0	0	0	0	0	0	0	0	0	941	941	0	0	0	13.667

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sand Links																			
pond1SDor	Node299	Node300	0	0	0	0	0	0	0	0	0	0	0	941	941	0	0	1.11	2.443
Link312	Node300	Node301	Circular	2.5	0	0	1	0	0	0	0.85	936.4	935.6	941	938.6	94	0.013	37.84	16.014
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SD2W1	Node301	Node302	0	0	0	0	0	0	0	0	0	0	0	938.6	938.6	0	0	0	14.375
SD2W2	Node302	Node303	0	0	0	0	0	0	0	0	0	0	0	938.6	938.77	0	0	0	11.305
holes2	Node303	Node342	0	0	0	0	0	0	0	0	0	0	0	938.77	938.6	0	0	0	1.84
holes1	Node303	Node343	0	0	0	0	0	0	0	0	0	0	0	938.77	938.6	0	0	0	1.84
SDP2W3	Node303	Node341	0	0	0	0	0	0	0	0	0	0	0	938.77	938.77	0	0	0	7.757
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SD3W1	Node304	Node305	0	0	0	0	0	0	0	0	0	0	0	937.3	937.3	0	0	0	-14.255
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SD3W2	Node305	Node306	0	0	0	0	0	0	0	0	0	0	0	937.3	937.3	0	0	0	-20.505
SDP4W3	Node306	Node307	0	0	0	0	0	0	0	0	0	0	0	937.3	937.86	0	0	0	7.943
SDP4O6	Node306	Node358	0	0	0	0	0	0	0	0	0	0	0	937.3	937.86	0	0	0	-5.946
SDP4O5	Node306	Node359	0	0	0	0	0	0	0	0	0	0	0	937.3	937.86	0	0	0	-5.946
Link359	Node307	Node293	Circular	1.5	0	0	1	0	0	0	4.62	933.5	932.3	937.86	956.3	26	0.013	22.57	16.317
Link321	Node309	Node310	Natural	1.67	0	1.5bot3.8top1.7dpCnc	1	0	0	0	0.26	930.6	929	932.27	930.67	625.77	0.017	25.93	11.971
Link322	Node310	Node311	Circular	1.5	0	0	1	0	0	0	0	925	925	930.67	929.17	72.04	0.013	0.33	11.496
Link323	Node311	Node312	Natural	1.67	0	1.5bot3.8top1.7dpCnc	1	0	0	0	0.15	927.5	927.2	929.17	928.87	200.62	0.017	19.83	9.479
Link329	Node311	Node311a	Circular	0.67	0	0	1	0	0	0	0.63	927.17	923.61	929.17	925.9	561.6	0.013	0.97	1.042
Link324	Node312	Node313	Circular	1.25	0	0	1	0	0	0	-0.08	927.2	927.3	928.87	928.97	123.74	0.014	1.71	7.803
Link325	Node313	Node314	Natural	1	0	1bot2top1deepNat	1	0	0	0	-4	927.3	927.7	928.97	928.7	10	0.04	6.68	4.545
Link328	Node313	Node317	Natural	1.67	0	1.5bot3.8top1.7dpCnc	1	0	0	0	1.86	927.3	927.17	928.97	928.84	7	0.017	69.88	4.08
Link326	Node314	Node311a	Natural	1	0	1bot2top1deepNat	1	0	0	0	2.7	927.7	922.07	928.7	925.9	208.58	0.04	5.48	4.527
Link335	Node317	Node317a	Circular	1.5	0	0	1	0	0	0	0.19	927.17	927.08	928.84	928.75	47.8	0.013	4.56	4.074
Link329.1	Node311.1	SA-N070	Circular	0.67	0	0	1	0	0	0	0.64	915.54	915	918.5	918	85	0.013	0.98	1.35
Link329.2	Node311.2	Node311.1	Circular	0.67	0	0	1	0	0	0	0.63	919.27	915.54	921.92	918.5	588	0.013	0.98	1.35
Link329.3	Node311.3	Node311.2	Natural	2	0	2bot4top2deepNat	1	0	0	0	0.64	921.66	919.27	924.11	921.92	376	0.013	16.9	1.571
Link329.4	Node311.4	Node311.3	Circular	0.67	0	0	1	0	0	0	0.63	922.77	921.66	925.13	924.11	175	0.013	0.98	1.573
Link329a	Node311a	Node311.4	Circular	0.67	0	0	1	0	0	0	0.64	923.61	922.77	925.9	925.13	132	0.013	0.98	1.694
Link341	Node323	Node329	Circular	2	0	0	1	0	0	0	5.71	921.2	918	926.27	926.27	56	0.013	54.08	2.903
Link335.1	Node317.1	Node323	Natural	1.67	0	1.5bot3.8top1.7dpCnc	1	0	0	0	0.2	924.78	924.6	926.45	926.27	92	0.017	22.68	3.061
Link335.2	Node317.2	Node317.1	Circular	1.25	0	0	1	0	0	0	0.2	926	924.78	927.67	926.45	622	0.013	2.86	3.207
Link335.3	Node317.3	Node317.2	Natural	1.67	0	1.5bot3.8top1.7dpCnc	1	0	0	0	0.2	926.74	926	928.41	927.67	375	0.017	22.78	3.85
Link335.4	Node317.4	Node317.3	Circular	1.5	0	0	1	0	0	0	0.2	922.87	922.74	928.54	928.41	65	0.013	4.7	3.986
Link335a	Node317a	Node317.4	Natural	1.67	0	1.5bot3.8top1.7dpCnc	1	0	0	0	0.2	927.08	926.87	928.75	928.54	104	0.017	23.04	4.028
Link342	Node329	Node330	Circular	2	0	0	1	0	0	0	0.2	919.25	918.92	926.27	926.27	166	0.013	10.09	2.813
Link343	Node330	Node330.2	Circular	0.833	0	0	1	0	0	0	0.61	922.94	920.318	926.27	921.988	432	0.013	1.71	2.732
Link343.1	Node330.1	Node330.3	Circular	1	0	0	1	0	0	0	0.61	920.08	917.97	921.75	921.48	347.15	0.013	2.78	2.732
Link343.2	Node330.2	Node330.1	Natural	1.67	0	1.5bot3.8top1.7dpCnc	1	0	0	0	0.61	920.318	920.075	921.988	921.75	40	0.017	39.97	2.732
Link343.8	Node330.7	SA-N096	Circular	0.83	0	0	1	0	0	0	0.61	917.56	914.2	921.43	921	553	0.013	1.69	0.086
Link350	Node330.7	Node338	Circular	1.5	0	0	1	0	0	0	0.66	917.04	910.679	921.43	913.96	961.46	0.014	7.93	2.646

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sand Links																			
Link352	Node338	SA-N102.1	Natural	0	0	SA-N102XS	1	0	0	0	0.66	910.679	901.87	913.96	909.26	1331.6	0.04	162.64	2.645
SA-N102L.1	SA-N102.1	SA-N103	Natural	0	0	SA-N102XS	1	0	0	0	0.66	901.87	891.49	909.26	897	1575	0	162.33	122.445
Link315	Node341	Node306	Circular	2.5	0	0	1	0	0	0	0.43	934.3	934	938.77	937.3	70	0.013	26.85	10.492
SDP2O1	Node342	Node341	0	0	0	0	0	0	0	0	0	0	0	938.6	938.77	0	0	1.11	1.536
SDP2O2	Node342	Node341	0	0	0	0	0	0	0	0	0	0	0	938.6	938.77	0	0	3.99	0.371
SDP2O3	Node343	Node341	0	0	0	0	0	0	0	0	0	0	0	938.6	938.77	0	0	1.11	1.536
SDP2O4	Node343	Node341	0	0	0	0	0	0	0	0	0	0	0	938.6	938.77	0	0	3.99	0.371
SDP5O3	Node344	Node346	0	0	0	0	0	0	0	0	0	0	0	936.9	936.9	0	0	3.99	3.992
SDP5O4	Node345	Node346	0	0	0	0	0	0	0	0	0	0	0	936.9	936.9	0	0	3.99	3.992
Link372	Node346	Node352	Circular	2	0	0	1	0	0	0	0.65	931.7	931.462	936.9	936.77	36.63	0.013	18.24	13.303
Link366	Node347	Node346	Circular	1.5	0	0	1	0	0	0	0	932.33	932.33	936.9	936.9	1.5	0.013	0.33	2.659
Link343.7	Node330.3	Node330.7	Circular	1.5	0	0	1	0	0	0	0.6	917.97	917.56	921.48	921.43	68	0.013	8.16	2.732
SDP3W2	Node349	Node350	0	0	0	0	0	0	0	0	0	0	0	940.4	940.4	0	0	0	0
SDP3W3	Node350	Node351	0	0	0	0	0	0	0	0	0	0	0	940.4	940.75	0	0	0	0
SDP3O1	Node350	Node351	0	0	0	0	0	0	0	0	0	0	0	940.4	940.75	0	0	1.11	0
SDP3O2	Node350	Node351	0	0	0	0	0	0	0	0	0	0	0	940.4	940.75	0	0	1.11	0
SDP3O3	Node350	Node351	0	0	0	0	0	0	0	0	0	0	0	940.4	940.75	0	0	1.11	0
Link368	Node351	Node304	Circular	2	0	0	1	0	0	0	1.03	935.8	935	940.75	937.3	78	0.014	21.27	-0.181
Link306	Node352	Node294	Circular	2	0	0	1	0	0	0	0.65	931.462	930.583	936.77	937.61	135.22	0.013	18.24	13.303
Link386	SA-N152.2	Node364	Circular	2.5	0	0	1	0	0	0	0.2	918.21	917.51	928.22	928.82	350.9	0.013	18.32	20.099
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA-N139L	Node356	Node356.2	Circular	3	0	0	1	0	0	0	0.09	921.65	921.53	927.81	927.42	130.3	0.013	20.24	26.672
SDP54O1	Node358	Node307	0	0	0	0	0	0	0	0	0	0	0	937.86	937.86	0	0	1.11	1.516
SDP4O3	Node358	Node307	0	0	0	0	0	0	0	0	0	0	0	937.86	937.86	0	0	3.99	3.606
SDP4O2	Node359	Node307	0	0	0	0	0	0	0	0	0	0	0	937.86	937.86	0	0	1.11	1.516
SDP4O4	Node359	Node307	0	0	0	0	0	0	0	0	0	0	0	937.86	937.86	0	0	3.99	3.606
Link381	Node376	Node230	Circular	3	0	0	1	0	0	0	0.66	939.5	935.2	943.7	939.21	647.31	0.013	54.36	43.355
SA-N140L.5	SA-N140.2	SA-N141	Circular	3	0	0	1	0	0	0	0.63	915.38	914.92	930.12	930	73.5	0.013	52.77	43.005
Link382	Node361	SA-N140.2	Circular	3	0	0	1	0	0	0	0.21	915.55	915.48	931.14	930.12	32.8	0.013	30.81	30.215
Link383	Node362	Node361	Circular	3	0	0	1	0	0	0	0.2	916.41	915.65	930.01	931.14	377.7	0.013	29.92	20.705
Link384	Node363	Node362	Circular	3	0	0	1	0	0	0	0.2	916.75	916.51	929.42	930.01	119.6	0.013	29.88	20.397
Link385	Node364	Node363	Circular	2.5	0	0	1	0	0	0	0.2	917.41	916.85	928.82	929.42	280.4	0.013	18.33	20.212
Link387	Node365	SA-N152.2	Circular	2	0	0	1	0	0	0	0.34	922.2	922	928.05	928.22	58.1	0.013	13.27	7.491
Link388	Node366	Node365	Circular	2	0	0	1	0	0	0	0.33	922.33	922.3	928.04	928.05	9	0.013	13.06	7.458
Link389	Node366	SA-N139.1	Circular	2.5	0	0	1	0	0	0	-1.46	921.23	921.49	928.04	928.2	17.81	0.013	49.56	18.781
SA-N139L.2	Node356.2	Node366	Circular	3	0	0	1	0	0	0	0.1	921.53	921.23	927.42	928.04	311.2	0.013	20.71	25.261
SA-N085L.5	SA-N085.5	SA-N086	Circular	1.75	0	0	1	0	0	0	0.11	920.74	920.68	927.67	927.23	55.1	0.013	5.23	9.593
Link396	Node372	SA-N108	Circular	2	0	0	1	0	0	0	0.2	922.6	921.85	928.22	927.1	372.6	0.013	10.15	17.243
Link395	Node371	Node372	Circular	1.25	0	0	1	0	0	0	0.2	924.73	924.32	927.79	928.22	202.3	0.013	2.91	8.119
SA-N137L.1	SA-N137.1	SA-N138	Circular	2.5	0	0	1	0	0	0	0.28	922.21	922.16	926.08	926.24	18	0.013	21.62	10.857
Link398	Node387	SA-N152.2	Circular	2.25	0	0	1	0	0	0	0.057	918.9	918.88	927.84	928.22	35	0.013	7.4	18.401

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sakunk-Jones Links																			
SK-N548L	SK-N548	SK-N547	Circular	2.5	0	0	1	0	0	0	0.39	930.3	929.599	934.799	937	181.093	0.013	25.46	3.775
SK-N547L	SK-N547	SK-N540	Circular	2.75	0	0	1	0	0	0	1.7	929.599	915.957	937	940	802.471	0.013	68.96	7.384
SK-N546L	SK-N546	SK-N547	Circular	1.5	0	0	1	0	0	0	1.76	933.5	929.599	941	937	221.608	0.013	13.94	1.69
SK-N545L	SK-N545	SK-N546	Circular	1.5	0	0	1	0	0	0	0.61	937	933.5	942	941	571.031	0.013	8.22	0.32
SK-N544L	SK-N544	SK-N543	Circular	3	0	0	1	0	0	0	0.4	929.15	927.2	942	941	482.137	0.013	42.42	17.212
SK-N543L	SK-N543	SK-N542	Circular	3	0	0	1	0	0	0	1.17	927.2	918.75	941	934	719.709	0.013	72.27	19.268
SK-N542L	SK-N542	SK-N541	Circular	3.5	0	0	1	0	0	0	1.2	918.75	916.857	934	940	157.732	0.013	110.65	20.773
SK-N551L	SK-N551	SK-N550	Circular	3	0	0	1	0	0	0	0.2	933	931.299	944	945.75	839.931	0.013	30.02	17.214
SK-N550L	SK-N550	SK-N544	Circular	3	0	0	1	0	0	0	0.6	931.299	929.15	945.75	942	360.268	0.013	51.51	17.162
SK-N418L	SK-N418	SK-N418.1	Circular	1.75	0	0	1	0	0	0	1.3	966.04	962.91	972.8	969	241.05	0.013	18.06	15.629
SK-N416L	SK-N416	SK-N415	Circular	2.5	0	0	1	0	0	0	1.39	957.554	946.239	962.5	954.5	814.628	0.013	48.34	40.017
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SK-N415L	SK-N415	SK-N415.1	Circular	2.5	0	0	1	0	0	0	1.1	946.24	939.85	954.5	948.17	579.93	0.024	23.32	27.935
SK-N413L	SK-N413	SK-N412	Circular	3	0	0	1	0	0	0	0.69	935.44	931.96	943.8	937.2	501.571	0.024	30.09	40.601
SK-N412L	SK-N412	SK-N411	Circular	3	0	0	1	0	0	0	0.36	931.96	930.719	937.2	936	340.932	0.024	21.8	35.795
SK-N411L	SK-N411	SK-N410	Circular	3	0	0	1	0	0	0	0.8	930.719	929.76	936	936	119.734	0.024	32.28	37.267
SK-N410L	SK-N410	SK-N409	Circular	4	0	0	1	0	0	0	0.07	929.76	929.48	936	937.5	389.542	0.024	20.86	40.404
SK-N419L	SK-N419	SK-N419.1	Circular	1.25	0	0	1	0	0	0	1.42	972.7	969.37	980.1	976.45	234.29	0.013	7.7	0
SK-N414L	SK-N414	SK-N414.1	Circular	1.5	0	0	1	0	0	0	2.93	950.44	942.94	956.8	950.3	256.27	0.013	17.97	4.725
SK-N432L	SK-N432	SK-N430	Circular	2.25	0	0	1	0	0	0	0.55	953.299	951.919	960.2	958	249.907	0.013	23.01	17.484
SK-N430L	SK-N430	SK-N429	Circular	2.25	0	0	1	0	0	0	0.91	951.919	949.59	958	955.799	255.681	0.013	29.56	18.518
SK-N429L	SK-N429	SK-N428	Circular	2.25	0	0	1	0	0	0	0.91	949.59	947.38	955.799	953.799	242.109	0.013	29.59	18.501
SK-N428L	SK-N428	SK-N425	Circular	2.25	0	0	1	0	0	0	0.82	947.38	945.2	953.799	951.7	267.221	0.013	27.97	18.434
SK-N425L	SK-N425	SK-N422	Circular	2.5	0	0	1	0	0	0	1.47	945.2	940.34	951.7	948.5	331.356	0.013	49.67	20.208
SK-N422L	SK-N422	SK-N421	Circular	3	0	0	1	0	0	0	0.64	940.34	938.739	948.5	946	250.759	0.013	53.29	20.108
SK-N421L	SK-N421	SK-N420	Circular	3	0	0	1	0	0	0	1.48	938.739	936	946	947	184.493	0.013	81.18	20.128
SK-N420L	SK-N420	SK-N403	Circular	3	0	0	1	0	0	0	1	936	927	947	936	898.986	0.013	66.74	24.529
SK-N409L	SK-N409	SK-N408	Circular	4	0	0	1	0	0	0	0.05	929.48	929.419	937.5	937.2	126.371	0.024	17.07	44.746
SK-N408L	SK-N408	SK-N403	Circular	4	0	0	1	0	0	0	0.24	929.419	927	937.2	936	989.156	0.024	38.48	44.745
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SK-N503L	SK-N503	SK-N502	Circular	1.5	0	0	1	0	0	0	0.3	928.9	928	936	934.5	299.802	0.013	5.76	6.8
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SK-N502L	SK-N502	SK-N501	Circular	1.5	0	0	1	0	0	0	0.3	928	927.349	934.5	933.75	214.405	0.013	5.79	7.373
SK-N501L	SK-N501	SK-N500	Circular	1.5	0	0	1	0	0	0	0.26	927.349	926	933.75	932.1	517.041	0.013	5.37	5.909
SK-N528L	SK-N528	SK-N529	Circular	3	0	0	1	0	0	0	0.24	929	927.7	937	935	546.119	0.013	32.54	30.575
SK-N529L	SK-N529	SK-N525	Circular	3	0	0	1	0	0	0	0.04	927.7	927.5	935	935	505.585	0.013	13.27	31.396
SK-N525L	SK-N525	SK-N524	Circular	3	0	0	1	0	0	0	1.31	927.5	923.299	935	931	321.382	0.013	76.26	31.838
SK-N522L	SK-N522	SK-N521	Circular	3	0	0	1	0	0	0	1.66	919.7	911.789	929.2	920	476.539	0.013	85.94	38.54
SK-N521L	SK-N521	SK-N520	Circular	2	0	0	1	0	0	0	1.66	911.789	907.65	920	935	249.343	0.013	29.15	38.863
SK-N423L	SK-N423	SK-N424	Circular	1.5	0	0	1	0	0	0	1.31	945.4	940.7	956.5	958.5	358.766	0.013	12.02	7.786
Link467	SK-N424	Node449	Circular	2.5	0	0	1	0	0	0	0.58	940.7	938.4	958.5	943.62	398	0.024	16.89	27.589
SK-N427L	SK-N427	SK-N423	Circular	1.25	0	0	1	0	0	0	1.2	949.15	945.4	955	956.5	313.416	0.013	7.07	5.765

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sakunk-Jones Links																			
SK-N310L	SK-N310	SK-N311	Circular	1.25	0	0	1	0	0	0	3.17	981.88	973.099	986.1	979.299	277.386	0.013	11.49	10.55
SK-N311L	SK-N311	SK-N312	Circular	1.25	0	0	1	0	0	0	3.16	973.099	948.78	979.299	955.5	770.048	0.013	11.48	12.479
SK-N312L	SK-N312	SK-N313	Circular	2	0	0	1	0	0	0	0.42	948.78	946.799	955.5	952.5	470.587	0.013	14.68	22.215
SK-N313L	SK-N313	SK-N314	Circular	2	0	0	1	0	0	0	2.65	946.799	942.88	952.5	952.2	148.081	0.013	36.76	21.733
SK-N314L	SK-N314	SK-N315	Circular	4	0	0	1	0	0	0	0.86	942.88	940.979	952.2	947.5	221.65	0.013	133.03	93.739
SK-N315L	SK-N315	SK-N307	Special	4	0	0	1	0	0	0	1.05	940.979	931.5	947.5	938	902.874	0.013	89.71	101.134
SK-N320L	SK-N320	SK-N321	Circular	2	0	0	1	0	0	0	5	1028.4	1013.5	1040.5	1020.5	298.121	0.013	50.57	13.862
SK-N321L	SK-N321	SK-N321.1	Circular	2	0	0	1	0	0	0	4.96	1013.5	997.83	1020.5	1004.08	316.07	0.013	50.37	13.861
SK-N322L	SK-N322	SK-N323	Circular	2.5	0	0	1	0	0	0	3.27	971.4	957.6	976.4	968.2	422.358	0.013	74.14	25.773
SK-N323L	SK-N323	SK-N324	Circular	3.5	0	0	1	0	0	0	1.36	957.6	955.3	968.2	966.9	168.805	0.013	117.87	67.44
SK-N324L	SK-N324	SK-N324.2	Circular	3.5	0	0	1	0	0	0	1.34	955.3	953.38	966.9	964.63	142.95	0.013	116.5	77.195
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SK-N326L	SK-N326	SK-N323	Circular	2.5	0	0	1	0	0	0	4.01	976.75	957.6	983.15	968.2	477.109	0.013	82.18	38.884
SK-N325L	SK-N325	SK-N326	Circular	2.5	0	0	1	0	0	0	3.26	982.18	976.75	991.5	983.15	166.42	0.013	73.83	29.755
SK-N329L	SK-N329	SK-N328	Circular	1.75	0	0	1	0	0	0	7.73	1061.34	1029.25	1070.15	1037.5	415.135	0.013	44.05	27.66
SK-N328L	SK-N328	SK-N330	Circular	2	0	0	1	0	0	0	5.29	1029.25	1006.25	1037.5	1011.25	434.785	0.013	52.03	29.863
SK-N330L	SK-N330	SK-N327	Circular	2	0	0	1	0	0	0	3.26	1006.25	997.83	1011.25	1002.25	258.545	0.013	40.83	29.418
SK-N327L	SK-N327	SK-N325	Circular	2.5	0	0	1	0	0	0	3.26	997.83	982.18	1002.25	991.5	479.97	0.013	74.07	29.299
SK-N234L	SK-N234	SK-N233	Circular	3	0	0	1	0	0	0	3.26	1031.51	1008.98	1037.15	1016.5	690.907	0.013	120.44	65.092
SK-N235L	SK-N235	SK-N234	Circular	2.5	0	0	1	0	0	0	1.96	1039.56	1031.51	1048.9	1037.15	410	0.013	57.47	16.532
SK-N236L1	SK-N236	SK-N235	Circular	2	0	0	1	0	0	0	3.78	1062.92	1043.9	1074.4	1048.9	503	0.013	43.99	16.533
SK-N166L	SK-N166	SK-N161	Circular	1	0	0	1	0	0	0	2.11	1029.25	1018.26	1033.75	1024.3	520.127	0.013	5.18	2.35
SK-N161L	SK-N161	SK-N156	Circular	1.5	0	0	1	0	0	0	2.52	1018.26	1006.07	1024.3	1011.79	484.37	0.013	16.66	12.202
SK-N156L	SK-N156	SK-N151	Circular	2	0	0	1	0	0	0	2.12	1006.07	1003.342	1011.79	1009	128.64	0.013	33.03	17.661
630.1&2	SK-N152	SK-N148	Circular	1.5	0	0	2	0	0	0	1.69	1000	997.52	1004	1002.59	146.958	0.013	13.7	43.504
SK-N173L	SK-N173	SK-N171	Circular	1.25	0	0	1	0	0	0	2.89	1045.56	1034.85	1050.5	1040	371.213	0.013	10.97	2.767
SK-N171L	SK-N171	SK-N169	Circular	1.5	0	0	1	0	0	0	1.59	1034.85	1031.79	1040	1036.59	192.949	0.013	13.2	12.958
SK-N169L	SK-N169	SK-N167	Special	2.5	0	0	1	0	0	0	1.1	1031.79	1030.25	1036.59	1035	139.928	0.024	13.31	16.965
SK-N167L	SK-N167	SK-N167.1	Special	2.5	0	0	1	0	0	0	1.98	1030.25	1025.71	1035	1030.46	229.11	0.024	17.88	16.853
SK-N168L	SK-N168	SK-N169	Special	2.5	0	0	1	0	0	0	1.8	1033	1031.79	1039	1036.59	67.311	0.024	17.06	4.521
SK-N436L	SK-N436	SK-N435	Circular	1.5	0	0	1	0	0	0	1.08	964.159	961.859	973.5	967.5	212.837	0.013	10.92	1.117
SK-N435L	SK-N435	SK-N434	Circular	1.5	0	0	1	0	0	0	2.7	961.859	960.38	967.5	966.5	54.843	0.013	17.27	1.107
SK-N434L	SK-N434	SK-N433	Circular	1.5	0	0	1	0	0	0	0.95	960.38	957.36	966.5	960.62	317.618	0.013	10.24	8.561
Link457	SK-N433	Node441	Circular	2	0	0	1	0	0	0	1.29	957.3	956.85	960.62	960.8	35	0.013	25.83	13.767
SK-N500L	SK-N500	SK-N500.1	Circular	1.5	0	0	1	0	0	0	0.17	926	925.35	932.1	932.62	385.67	0.013	4.31	9.462
SK-N401L	SK-N401	SK-N400	Circular	6	0	0	1	0	0	0	0.11	926.32	925.56	938	934.5	674.817	0.024	76.99	102.926
SK-N400L	SK-N400	SK-N204	Circular	6	0	0	1	0	0	0	0.11	925.56	924.5	934.5	932	942.945	0.024	76.91	107.315
SK-N513L	SK-N513	SK-N512	Circular	1.5	0	0	1	0	0	0	0.66	919.9	917.5	928.9	926.2	366.059	0.013	8.51	15.448
SK-N511L	SK-N511	SK-N510	Circular	1.5	0	0	1	0	0	0	1.59	916.9	914.5	926.799	929.49	150.495	0.013	13.24	16.23
SK-N307L	SK-N307	SK-N307.1	Circular	6	0	0	1	0	0	0	0.45	931.5	930.572	938	936.88	208	0.013	282.88	134.171
560.1&2&3	SK-N306	SK-N300	Circular	4	0	0	3	0	0	0	0.2	927.299	926.2	934	934	562.202	0.013	63.51	132.8
SK-N300L	SK-N300	SK-N213	Natural	0	0	SK-N300XS	1	0	0	0	0.08	926.2	926	934	934	254.763	0.035	336.81	92.841

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sakunk-Jones Links																			
SK-N317L	SK-N317	SK-N317.2	Circular	1.25	0	0	1	0	0	0	0.88	935.58	935.13	939	938.98	51.19	0.013	6.04	15.83
SK-N308L	SK-N308	SK-N307	Circular	2.5	0	0	1	0	0	0	0.08	931.72	931.5	938.8	938	274.221	0.013	11.62	22.912
SK-N318L	SK-N318	SK-N318.1	Circular	2	0	0	1	0	0	0	0.33	938.8	938.32	944.5	941.17	147.67	0.013	12.86	3.817
SK-N316L	SK-N316	SK-N317	Circular	1	0	0	1	0	0	0	0.36	938.146	935.58	940	939	718.851	0.013	2.13	2.386
SK-N303L	SK-N303	SK-N302	Natural	0	0	SK-N303XS	1	0	0	0	0.12	926.7	926.4	934	934	256.21	0.035	152.26	-29.004
SK-N304L	SK-N304	SK-N303	Circular	3	0	0	1	0	0	0	0.11	926.8	926.7	934	934	90.496	0.024	12.04	-21.285
SK-N302L	SK-N302	SK-N301	Circular	3	0	0	1	0	0	0	0.16	926.4	926.3	934	934	62.144	0.024	14.47	-38.925
SK-N301L	SK-N301	SK-N300	Natural	0	0	SK-N303XS	1	0	0	0	0.24	926.3	926.2	934	934	41.694	0.035	217.87	-51.059
SK-N305L	SK-N305	SK-N304	Natural	0	0	SK-N305XS	1	0	0	0	0.05	927.1	926.8	938	934	621.162	0.035	400.81	-10.239
N213A1	SK-N213	SK-N212	Special	3.9	0	0	2	0	0	6	0.08	926	925.93	934	936	92.332	0.024	34.3	146.248
N213P	SK-N213	SK-N212	Circular	4	0	0	1	0	0	0	0.08	926	925.93	934	936	92.332	0.024	21.43	45.689
SK-N212L	SK-N212	SK-N211	Circular	7	0	0	1	0	0	0	0.08	925.93	925.6	936	933.5	406.442	0.024	98.6	191.537
SK-N211L	SK-N211	SK-N210	Natural	0	0	SK-N211XS	1	0	0	0	0.08	925.6	925.46	933.5	933	172.627	0.035	282.82	186.668
SK-N208L	SK-N208	SK-N207	Special	5.583	0	0	1	0	0	7.92	0.08	925.13	925.02	933	933	137.605	0.024	86.28	185.566
SK-N207L	SK-N207	SK-N206	Natural	0	0	SK-N207XS	1	0	0	0	0.08	925.02	924.88	933	933	170.692	0.035	255.01	185.847
SK-N206L	SK-N206	SK-N205	Special	5.583	0	0	1	0	0	7.92	0.08	924.88	924.81	933	933	85.883	0.024	87.24	186.208
SK-N205L	SK-N205	SK-N204	Natural	0	0	SK-N205XS	1	0	0	0	0.08	924.81	924.5	933	932	388.486	0.035	118.79	196.256
SK-N204L	SK-N204	SK-N203	Natural	6	0	SK-N204XS	1	0	0	0	0.56	924.5	923	932	934.47	267.306	0.035	648.6	307.222
SK-N600L	SK-N600	SK-N204	Rectangular	2	0	0	1	0	0	3	1.35	926.7	924.5	931	932	163.214	0.024	30.66	20.571
595.1A&B	SK-N214	SK-N213	Circular	3.5	0	0	2	0	0	0	0.76	930.83	926	936	934	635.395	0.013	87.72	116.123
SK-N228L	SK-N228	SK-N229	Circular	3.5	0	0	1	0	0	0	1.19	972.7	968.5	980	973	352.621	0.013	109.8	87.916
SK-N229L	SK-N229	SK-N227	Circular	3	0	0	1	0	0	3	0.63	968.5	968.25	973	972.75	39.578	0.013	52.85	87.139
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SK-N164L	SK-N164	SK-N162	Circular	3	0	0	1	0	0	0	2.31	1015.45	1013.2	1022.25	1018	97.531	0.013	101.06	35.378
SK-N162L	SK-N162	SK-N160	Circular	3	0	0	1	0	0	0	3.86	1013.2	1007.785	1018	1017.5	140.433	0.013	130.89	35.337
614.1&2	SK-N157	SK-N157.1	Circular	2	0	0	2	0	0	0	2.37	999	997.47	1004	1002.47	64.6	0.013	34.76	35.863
SK-N227L	SK-N227	SK-N227.1	Circular	3	0	0	1	0	0	3	1.35	968.25	959.418	972.75	965.38	653.88	0.013	77.52	88.257
SK-N226L	SK-N226	SK-N225	Circular	3.5	0	0	1	0	0	3	0.74	953.88	951.96	958	956.75	260	0.013	86.46	91.04
590.1&2	SK-N225	SK-N224	Circular	2.75	0	0	2	0	0	3	1.35	951.96	951	956.75	955	71.35	0.013	61.07	91.045
SK-N224L	SK-N224	SK-N222	Trapezoidal	4	0	0	1	0.5	0.5	4	0.75	951	949	955	954	267.336	0.017	273.86	91.049
SK-N403L	SK-N403	SK-N402	Natural	0	0	SK-N403XS	1	0	0	0	0	927	927	936	938.5	76.363	0.035	10.62	59.556
Link463	SK-N431	Node446	Circular	2.5	0	0	1	0	0	0	1.53	953.78	952.45	958.4	956.91	87	0.024	27.52	14.41
SK-N221L	SK-N221	SK-N220	Trapezoidal	4	0	0	1	1	1	4	1.29	946	937	950.5	941.5	698.881	0.017	518.82	116.935
SK-N222L	SK-N222	SK-N221	Rectangular	3	0	0	1	0	0	3	1.63	949	946	954	950.5	184.2	0.013	108.17	91.047
SK-N231L	SK-N231	SK-N230	Natural	0	0	SK-N231XS	1	0	0	0	1.78	982	975.099	987	980	386.667	0.035	128.2	70.847
SK-N232L	SK-N232	SK-N231	Circular	3	0	0	1	0	0	0	3.25	1004.5	982	1010	987	692.671	0.013	120.21	70.422
SK-N233L	SK-N233	SK-N232	Circular	3	0	0	1	0	0	0	3.25	1008.98	1004.5	1016.5	1010	137.765	0.013	120.16	65.101
SK-N220L	SK-N220	SK-N219	Trapezoidal	2.5	0	0	1	0.5	0.5	3	1.42	937	934.5	941.5	939.5	175.515	0.017	127.93	116.38
SK-N223L	SK-N223	SK-N221	Rectangular	2	0	0	1	0	0	7.5	3.46	948	945.5	952	950.5	72.26	0.013	272.92	14.379
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SK-N219L	SK-N219	SK-N218	Circular	3	0	0	1	0	0	3	0.2	934.5	934.399	939.5	938.8	51.013	0.013	29.52	116.311
SK-N218L	SK-N218	SK-N218.1	Trapezoidal	2	0	0	1	0.5	0.5	3	0.33	934.4	934	938.8	938.4	121.28	0.017	42.15	117.741

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sakunk-Jones Links																			
N215P1	SK-N215	SK-N214	Circular	3.5	0	0	1	0	0	0	0.76	931.46	930.83	938	936	82.422	0.013	88.44	56.525
N215B	SK-N215	SK-N214	Circular	3.5	0	0	1	0	0	3	0.76	931.46	930.83	938	936	82.422	0.013	88.44	56.525
SK-N165L	SK-N165	SK-N163	Circular	3	0	0	1	0	0	0	2.14	1020.25	1016.7	1025	1022.25	165.896	0.013	97.9	17.002
SK-N163L	SK-N163	SK-N164	Circular	3	0	0	1	0	0	0	2.44	1016.7	1015.45	1022.25	1022.25	51.247	0.013	103.86	35.486
SK-N160L	SK-N160	SK-N159	Circular	3	0	0	1	0	0	0	3.85	1007.785	1006	1017.5	1014.5	46.365	0.013	130.02	35.482
SK-N159L	SK-N159	SK-N157	Circular	3	0	0	1	0	0	0	2.12	1006	999	1014.5	1004	329.998	0.013	97.14	35.719
SK-N170L	SK-N170	SK-N163	Circular	1.5	0	0	1	0	0	0	2.37	1031.81	1016.7	1035.75	1022.25	638.224	0.013	16.16	13.007
SK-N172L	SK-N172	SK-N170	Circular	1.5	0	0	1	0	0	0	2.92	1042.97	1031.81	1047.5	1035.75	382.843	0.013	17.93	3.66
SK-N147L	SK-N147	SK-N146	Circular	3	0	0	1	0	0	0	1.84	987	983.799	992	988	174.152	0.013	90.66	91.527
SK-N146L	SK-N146	SK-N145	Circular	3	0	0	1	0	0	0	2.83	983.799	980	988	985	134.364	0.013	111.68	106.492
SK-N145L	SK-N145	SK-N144	Natural	0	0	SK-N145XS	1	0	0	0	1.64	980	975.5	985	981.3	275.03	0.035	354.74	125.308
SK-N144L	SK-N144	SK-N143	Natural	0	0	SK-N144XS	1	0	0	0	0.98	975.5	973	981.3	978.8	255.814	0.035	1058.41	124.819
SK-N143L	SK-N143	SK-N142	Circular	5	0	0	1	0	0	0	1.77	973	971.87	978.8	977	63.667	0.024	188.51	124.965
SK-N142L	SK-N142	SK-N141	Circular	5	0	0	1	0	0	0	1.78	971.87	967.2	977	975.799	262.931	0.024	188.01	124.958
SK-N141L	SK-N141	SK-N140	Circular	5	0	0	1	0	0	0	1.81	967.2	966.96	975.799	975.2	13.282	0.024	189.17	135.842
SK-N140L	SK-N140	SK-N139	Circular	5	0	0	1	0	0	0	1.78	966.96	961.53	975.2	968.15	305.684	0.024	188.02	141.414
SK-N139L	SK-N139	SK-N138	Circular	4	0	0	1	0	0	0	1.68	961.53	960.45	968.15	966.25	64.285	0.024	100.9	141.265
SK-N138L	SK-N138	SK-N137	Rectangular	4	0	0	1	0	0	4	1.19	960.45	959.47	966.25	964.599	82.617	0.013	198.13	141.194
SK-N137L	SK-N137	SK-N136	Rectangular	4	0	0	1	0	0	4	1.19	959.47	958.36	964.599	963.5	93.614	0.013	199.02	143.454
SK-N136L	SK-N136	SK-N135	Rectangular	4	0	0	1	0	0	4	1.19	958.36	955.54	963.5	960	237.908	0.013	199.12	143.522
SK-N135L	SK-N135	SK-N134	Rectangular	4	0	0	1	0	0	4	1.18	955.54	953.1	960	959	205.916	0.013	199.09	143.562
SK-N130L	SK-N130	SK-N129	Natural	0	0	SK-N130XS	1	0	0	0	0.71	941.66	940.77	947	946	124.716	0.035	430.83	184.47
SK-N129L	SK-N129	SK-N128	Rectangular	4.333	0	0	1	0	0	6	0.71	940.77	939.72	946	945	147.243	0.013	291.26	184.68
SK-N128L	SK-N128	SK-N127	Natural	0	0	SK-N128XS	1	0	0	0	0.71	939.72	938.59	945	944	159.368	0.035	167.5	188.28
SK-N127L	SK-N127	SK-N126	Natural	0	0	SK-N128XS	1	0	0	0	0.71	938.59	937.81	944	943	109.817	0.035	167.64	189.926
SK-N126L	SK-N126	SK-N125	Natural	0	0	SK-N126XS	1	0	0	0	0.71	937.81	937.26	943	943	77.064	0.035	130.99	190.248
SK-N125L	SK-N125	SK-N124	Rectangular	5	0	0	1	0	0	7	0.71	937.26	936.47	943	942	110.691	0.013	433.36	201.775
SK-N124L	SK-N124	SK-N123	Natural	0	0	SK-N124XS	1	0	0	0	0.71	936.47	935.24	942	941	172.347	0.035	330.32	201.277
SK-N123L	SK-N123	SK-N122	Rectangular	4.5	0	0	1	0	0	6	0.71	935.24	934.71	941	940	74.612	0.013	309.13	200.881
SK-N122L	SK-N122	SK-N121	Natural	0	0	SK-N122XS	1	0	0	0	0.71	934.71	933.55	940	938.56	162.764	0.035	846.64	206.72
N121B	SK-N121	SK-N120	Rectangular	3.5	0	0	1	0	0	6	0.71	933.55	932.34	938.56	939.49	169.479	0.013	216.23	121.997
N121P	SK-N121	SK-N120	Circular	5	0	0	1	0	0	0	0.71	933.55	932.34	938.56	939.49	169.479	0.013	219.46	86.747
SK-N120L	SK-N120	SK-N119	Natural	0	0	SK-N120XS	1	0	0	0	0.69	932.34	930.78	939.49	937.93	227.239	0.035	3084.53	215.54
SK-N119L	SK-N119	SK-N118	Circular	4	0	0	2	0	0	0	0.72	930.78	929.91	937.93	936	121.675	0.024	65.86	213.972
SK-N118L	SK-N118	SK-N117	Natural	0	0	SK-N118XS	1	0	0	0	0.71	929.91	929.25	936	936	93.027	0.035	707.54	213.672
SK-N117L	SK-N117	SK-N116	Special	6.5	0	0	1	0	0	9	0.72	929.25	928.44	936	935	113.096	0.024	429.18	213.233
SK-N116L	SK-N116	SK-N115	Natural	0	0	SK-N116XS	1	0	0	0	0.71	928.44	927.47	935	935	136.883	0.035	397.49	212.54
SK-N115L	SK-N115	SK-N114	Special	6.5	0	0	1	0	0	9	0.71	927.47	927.03	935	934	61.736	0.024	428.1	212.458
SK-N114L	SK-N114	SK-N113	Natural	0	0	SK-N114XS	1	0	0	0	0.71	927.03	925.28	934	933	245.885	0.035	295.71	215.289
J-N110L	J-N110	J-N109	Rectangular	8	0	0	1	0	0	12	4.33	1025	1011	1063	1063	323.276	0.013	4093.53	229.915
J-N109L	J-N109	J-N108	Natural	0	0	J-N109XS	1	0	0	0	2.37	1011	997	1063	1043.65	591.921	0.035	434443.43	316.332
J-N108L	J-N108	J-N107	Natural	0	0	J-N108XS	1	0	0	0	2.19	997	983	1043.65	1032.79	639.802	0.035	945742.11	302.771

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sakunk-Jones Links																			
J-N107L	J-N107	J-N106	Natural	0	0	J-N107XS	1	0	0	0	2.05	983	966	1032.79	1021.16	828.667	0.035	989676.94	304.923
J-N106L	J-N106	J-N105	Natural	0	0	J-N106XS	1	0	0	0	2.12	966	951	1021.16	1006.16	708.178	0.035	1605346.2	305.42
J-N105L	J-N105	J-N104	Natural	0	0	J-N105XS	1	0	0	0	1.97	951	939	1006.16	967.67	610.041	0.035	252084.49	309.711
J-N104L	J-N104	J-N103	Rectangular	8	0	0	1	0	0	12	0	939	939	967.67	960.5	82.124	0.024	52.51	320.488
J-N103L	J-N103	J-N102	Natural	0	0	J-N103XS	1	0	0	0	2.64	939	924	960.5	949	568.199	0.035	39859.08	317.545
J-N102L	J-N102	J-N101	Rectangular	8	0	0	1	0	0	12	6.07	924	917	949	949	115.294	0.024	2628.61	334.324
J-N101L	J-N101	J-N100	Natural	0	0	J-N101XS	1	0	0	0	2.49	917	900.5	949	945	663.19	0.035	67880.36	336.182
J-N100L	J-N100	SK-N541	Natural	0	0	J-N100XS	1	0	0	0	0.05	900.5	900	945	940	1050.03	0.035	110018.12	2382.048
SK-N440L	SK-N440	SK-N417	Circular	2	0	0	1	0	0	2	0.35	965	960	970	970	1427.25	0.03	5.81	8.279
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SK-N113L	SK-N113	SK-N112	Special	6.5	0	0	1	0	0	9	0.71	925.28	924.87	933	933	57.678	0.024	426.06	215.237
SK-N112L	SK-N112	SK-N111	Natural	0	0	SK-N112XS	1	0	0	0	0.71	924.87	923.13	933	932	244.686	0.035	275.52	215.319
SK-N111L	SK-N111	SK-N110	Special	6.5	0	0	1	0	0	9	0.72	923.13	922.67	932	932	63.892	0.024	428.07	214.35
SK-N110L	SK-N110	SK-N109	Natural	0	0	SK-N110XS	1	0	0	0	0.71	922.67	922.03	932	932	90.48	0.035	316.16	218.639
SK-N109L	SK-N109	SK-N108	Special	6.5	0	0	1	0	0	9	0.71	922.03	921.75	932	932	39.374	0.024	428.49	218.897
SK-N108L	SK-N108	SK-N107	Natural	0	0	SK-N108XS	1	0	0	0	0.71	921.75	920.75	932	932	141.003	0.035	938.83	218.574
SK-N102L	SK-N102	SK-N101	Special	7.5	0	0	1	0	0	9	2.61	918	916	930	930	76.501	0.013	2276.58	529.348
SK-N101L	SK-N101	SK-N100	Natural	0	0	SK-N101XS	1	0	0	0	9.45	916	895	930	928.99	222.316	0.035	19576.85	529.381
SK-N201L	SK-N201	SK-N200	Natural	0	0	SK-N201XS	1	0	0	0	0.67	920	918	932.91	930.91	297.965	0.035	3486.18	318.155
SK-N202L	SK-N202	SK-N201	Rectangular	7	0	0	1	0	0	8	1.81	921.5	920	932.97	932.91	82.698	0.013	1300.68	318.134
SK-N203L	SK-N203	SK-N202	Natural	0	0	SK-N203XS	1	0	0	0	0.66	923	921.5	934.47	932.97	227.359	0.035	2458.97	318.155
SK-N150L	SK-N150	SK-N147	Circular	2.5	0	0	1	0	0	0	1.81	991	987	998	992	221.287	0.013	55.15	52.755
SK-N149L	SK-N149	SK-N150	Trapezoidal	4	0	0	1	1	1	4	1.69	996.02	991	1001.5	998	296.915	0.035	288.75	43.503
SK-N148L	SK-N148	SK-N149	Circular	2.5	0	0	1	0	0	0	1.69	997.52	996.02	1002.59	1001.5	88.96	0.013	53.08	43.505
SK-N134L	SK-N134	SK-N133	Natural	0	0	SK-N134XS	1	0	0	0	0.13	953.1	953	959	959	76.172	0.035	135.47	140.312
SK-N133L	SK-N133	SK-N132	Rectangular	5	0	0	1	0	0	5	1.33	953	950.58	959	956	182.377	0.024	207.07	138.852
SK-N132L	SK-N132	SK-N131	Rectangular	5	0	0	1	0	0	4	1.33	950.58	949.39	956	954.5	89.752	0.024	152.75	159.034
SK-N131L	SK-N131	SK-N130	Rectangular	5	0	0	2	0	0	4	0.72	949.39	941.66	954.5	947	1079.69	0.013	207.64	184.588
SK-N107L	SK-N107	SK-N106	Natural	0	0	SK-N107XS	1	0	0	0	0.71	920.75	919.4	932	930	189.362	0.035	620.56	217.403
SK-N104L	SK-N104	SK-N103	Special	6.5	0	0	1	0	0	9	0.72	918.34	918	932	932	47.301	0.024	427.78	215.684
SK-N622L	SK-N622	SK-N621	Trapezoidal	3	0	0	1	1	1	2	0.07	944	943.5	948	947.5	739.687	0.03	24.53	1.889
SK-N621L	SK-N621	SK-N620	Trapezoidal	3	0	0	1	1	1	2	0.07	943.5	943	947.5	947	703.7	0.03	25.15	2.157
SK-N619L	SK-N619	SK-N618	Trapezoidal	3	0	0	1	1	1	2	0.36	943	941	947	945	561.101	0.03	56.32	8.544
SK-N620L	SK-N620	SK-N619	Rectangular	3	0	0	1	0	0	3	0	943	943	947	947	92.04	0.013	3.97	8.659
SK-N618L	SK-N618	SK-N617	Rectangular	3	0	0	1	0	0	3	0	941	941	945	945	78.861	0.013	4.26	10.14
SK-N617L	SK-N617	SK-N616	Trapezoidal	3	0	0	1	1	1	2	0.2	941	938	945	942	1501.93	0.03	42.12	10.315
SK-N616L	SK-N616	SK-N615	Rectangular	3	0	0	1	0	0	3	0	938	938	942	942	68.007	0.013	4.59	10.866
SK-N615L	SK-N615	SK-N614	Trapezoidal	3	0	0	1	1	1	2	0.49	938	933	942	937	1022.65	0.03	66.04	10.748
SK-N614L	SK-N614	SK-N613	Rectangular	3	0	0	1	0	0	3	0	933	933	937	937	52.951	0.013	5.21	11.442
SK-N613L	SK-N613	SK-N612	Trapezoidal	3	0	0	1	1	1	2	0	933	933	937	937	512.72	0.03	2.98	11.213
SK-N612L	SK-N612	SK-N611	Rectangular	3	0	0	1	0	0	3	0	933	933	937	937	59.234	0.013	4.92	11.228
SK-N611L	SK-N611	SK-N610	Trapezoidal	3	0	0	1	1	1	2	0	933	933	937	937	274.37	0.03	2.98	11.15

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sakunk-Jones Links																			
SK-N610L	SK-N610	SK-N609	Rectangular	3	0	0	1	0	0	3	0	933	933	937	937	62.868	0.013	4.78	11.152
SK-N609L	SK-N609	SK-N608	Trapezoidal	3	0	0	1	1	1	2	0.2	933	932	937	936	501.283	0.03	42.13	11.029
SK-N608L	SK-N608	SK-N607	Rectangular	3	0	0	1	0	0	3	0	932	932	936	936	54.214	0.013	5.13	10.887
SK-N607L	SK-N607	SK-N606	Trapezoidal	3	0	0	1	1	1	2	0	932	932	936	936	266.221	0.03	2.98	10.81
SK-N606L	SK-N606	SK-N605	Rectangular	3	0	0	1	0	0	3	0	932	932	936	936	71.394	0.013	4.48	10.819
SK-N605L	SK-N605	SK-N604	Trapezoidal	3	0	0	1	1	1	2	0	932	932	936	936	378.671	0.03	2.98	10.782
SK-N604L	SK-N604	SK-N603	Rectangular	3	0	0	1	0	0	3	0	932	932	936	936	66.064	0.013	4.65	10.819
SK-N603L	SK-N603	SK-N602	Trapezoidal	3	0	0	1	1	1	2	0.35	932	930.5	936	934.5	431.092	0.03	55.64	10.82
SK-N602L	SK-N602	SK-N601	Trapezoidal	3	0	0	1	1	1	2	0.28	930.5	929	934.5	933	540.014	0.03	49.72	16.078
SK-N601L	SK-N601	SK-N600	Trapezoidal	3	0	0	1	1	1	2	0.57	929	926.7	933	931	401.586	0.03	71.39	16.392
SK-N512L	SK-N512	SK-N511	Circular	1.5	0	0	1	0	0	0	0.66	917.5	916.9	926.2	926.799	90.264	0.013	8.6	15.453
SK-N524L	SK-N524	SK-N522	Circular	3	0	0	1	0	0	0	0.73	923.299	919.7	931	929.2	494.116	0.013	56.92	36.745
SK-N549L	SK-N549	SK-N548	Circular	2.5	0	0	1	0	0	0	0.46	934	930.3	937	934.799	797.254	0.013	27.94	3.814
SK-N158L	SK-N158	SK-N155	Circular	2	0	0	1	0	0	0	2.37	1028	1014.08	1032	1016.75	588.498	0.025	18.09	18.656
SK-N155L	SK-N155	SK-N154	Circular	2	0	0	1	0	0	0	2.35	1014.08	1011.433	1016.75	1015.433	112.755	0.013	34.52	32.263
SK-N154L	SK-N154	SK-N153	Trapezoidal	4	0	SK-N154XS	1	1	1	4	2.45	1011.433	1008.737	1015.433	1012.74	110.03	0.035	347.07	32.111
SK-N541L	SK-N541	SK-N540	Natural	0	0	SK-N541XS	1	0	0	0	0.02	900	899.5	940	940	2147.58	0.035	79502.03	2383.273
SK-N540L	SK-N540	SK-N520	Natural	0	0	SK-N540XS	1	0	0	0	0.19	899.5	895	940	935	2359.75	0.035	180889.08	2396.905
SK-N520L	SK-N520	R-N002	Natural	0	0	SK-N520XS	1	0	0	0	0.11	895	893	935	935	1822.46	0.035	178325.53	2426.049
SK-N510L	SK-N510	SK-N100	Natural	0	0	SK-N510XS	1	0	0	0	0.04	887.5	887	929.49	928.99	1130.9	0.035	140242.66	2437.284
SK-N153L	SK-N153	SK-N151	Circular	2	0	0	1	0	0	0	2.45	1008.737	1003.342	1012.74	1009	220.2	0.013	35.41	31.035
SK-N151L	SK-N151	SK-N152	Rectangular	2	0	0	1	0	0	3	2.12	1003.342	1000	1009	1004	157.642	0.013	71.3	55.625
Link344	SK-N704	SK-N703	Circular	3	0	0	1	0	0	0	-0.02	1072.32	1072.39	1076.2	1075.39	284	0.013	10.47	4.418
Link341	SK-N703	Node329	Natural	1	0	6bot8top1deepNat	1	0	0	0	-0.02	1072.39	1072.47	1075.39	1074.63	327	0.04	3.48	4.195
SK-N702L	SK-N702	SK-N701	Special	3.5	0	0	1	0	0	3	0.05	1070.873	1070.82	1074.04	1075.42	111.031	0.024	6.62	12.534
SK-N701L	SK-N701	SK-N701.3	Circular	2.5	0	0	1	1	1	4	0.17	1070.82	1070.19	1075.42	1075.82	363	0.013	17.09	12.322
SK-N706L	SK-N706	SK-N705	Natural	3.2	0	4bot10top3.2deepNat	1	0	0	3	-0.42	1073.87	1074.12	1077.12	1077.37	59	0.04	78.87	-12.186
SK-N707L	SK-N707	SK-N706	Circular	3	0	0	1	0	0	3	-0.06	1073.02	1073.12	1077.02	1077.12	178	0.013	15.76	-12.17
SK-N708L1	SK-N708	Node322	Circular	3	0	0	1	1	1	4	0.4	1074.5	1072.92	1082	1075.92	394	0.013	42.24	32.716
SK-N709L	SK-N709	SK-N708	Circular	2.5	0	0	1	0	0	3	0.44	1074.72	1074.5	1082	1082	50.243	0.014	25.26	21.627
SK-N236L2	SK-N712	SK-N236	Circular	2.5	0	0	1	0	0	0	38.33	1074.7	1063.2	1083	1074.4	30	0.013	255.72	16.517
Link329	SK-N712	Node319	Circular	1.5	0	0	1	0	0	0	-0.53	1075.08	1076.35	1083	1078.29	239	0.013	7.66	-8.059
SK-N713L	SK-N713	SK-N712	Special	4.83	0	0	1	0	0	3	0.33	1075.45	1075.26	1078.51	1083	57	0.024	45.2	8.455
Link326	SK-N714	Node317	Natural	1.8	0	3bot8.5top1.8deepGun	1	0	0	0	0.07	1076.53	1076.3	1078.45	1078.56	329	0.022	19.47	-4.918
SK-N716L	SK-N716	SK-N714	Natural	1.8	0	3bot8.5top1.8deepGun	1	0	0	3	-0.59	1075.5	1076.53	1078.88	1078.45	175	0.022	56.44	-4.817
SK-N715L	SK-N715	SK-N716	Circular	3.5	0	0	1	0	0	3	0.06	1075.41	1075.38	1083	1078.88	50.975	0.024	13.24	-5.133
SK-N718L	SK-N718	SK-N715	Circular	3.5	0	0	1	1	1	4	-0.12	1074.14	1074.41	1081.34	1083	226	0.024	18.84	-6.921
SK-N710L	SK-N710	SK-N710.1	Circular	2.5	0	0	1	1	1	4	0.43	1076.55	1075.56	1082.5	1082.23	228	0.024	14.64	5.381
SK-N711L	SK-N711	SK-N710	Rectangular	1.17	0	0	1	0	0	6	0.44	1076.77	1076.55	1077.94	1082.5	50	0.017	25.28	5.384
SK-N719L2	SK-N717	SK-N717.1	Circular	1.75	0	0	1	0	0	0	9.71	1065.9	1065.34	1079.4	1078.26	5.77	0.013	49.54	20.67
Link325	SK-N717	SK-N718	Circular	2	0	0	1	0	0	0	-1.56	1067.4	1069.64	1079.4	1081.34	144	0.013	28.29	-6.986
Link506	SK-N717	Node471	Circular	1	0	0	1	0	0	0	4.53	1065.9	1062.985	1079.4	1074.5	64.33	0.013	7.56	7.716

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sakunk-Jones Links																			
SK-N719L1	SK-N719	SK-N717	Rectangular	11.6	0	0	1	0	0	3	0	1065.9	1065.9	1080	1079.4	6	0.013	79.92	11.09
Beacon	SK-N719	Node401	0	0	0	0	0	0	0	0	0	0	0	1080	1088.38	0	0	0	0
Link317	SK-N720	Node309	Natural	2.5	0	6bot10top2.5deepConc	1	0	0	0	-0.01	1076.45	1076.47	1083	1079.12	341	0.017	18.41	7.103
SK-N721L	SK-N721	SK-N720	Special	3.9	0	0	1	0	0	3	-0.15	1076.364	1076.45	1080.46	1083	59	0.024	47.66	7.503
SK-N722L2	SK-N722	SK-N320	Circular	2	0	0	1	0	0	0	9.95	1076.95	1028.4	1083	1040.5	487.724	0.013	71.38	12.553
Link312	SK-N722	Node305	Natural	2.5	0	4bot9top2.5deepGun	1	0	0	0	0.11	1077.47	1077.19	1083	1079.69	244	0.022	48.02	0.056
SK-N723L	SK-N723	SK-N722	Rectangular	3	0	0	1	0	0	3	0.57	1077.38	1076.95	1083	1083	76	0.017	48.75	12.606
Link309	SK-N724	Node303	Natural	3.2	0	6bot12top3.2deepgun	1	0	0	0	0.36	1078.63	1077.43	1083.13	1080.63	335	0.022	181.7	11.87
SK-N725L	SK-N725	SK-N724	Special	5	0	0	1	0	0	3	0.37	1078.74	1078.63	1081.94	1083.13	30	0.024	47.34	11.897
SK-N726L1	SK-N726	Node301	Natural	4	0	8bot15.7top4deepconc	1	1	1	4	-0.05	1077.62	1077.76	1081.62	1081.76	277	0.017	170.48	10.317
SK-N727L	SK-N727.1	SK-N726	Circular	4	0	0	1	0	0	3	0.56	1078.26	1077.62	1082.26	1081.62	115	0.024	58.04	10.502
SK-N216L	SK-N216	SK-N215	Special	3.58	0	0	1	0	0	5	0.77	933.4	931.46	939	938	252.918	0.024	83.5	110.365
SK-N210L	SK-N210	SK-N209	Special	5.583	0	0	1	0	0	7.92	0.08	925.46	925.19	933	933	339.229	0.024	86.06	185.999
SK-N209L	SK-N209	SK-N208	Natural	0	0	SK-N209XS	1	0	0	0	0.08	925.19	925.13	933	933	74.163	0.035	226.52	185.453
SK-N437L	SK-N437	SK-N432	Circular	2.25	0	0	1	0	0	0	0.63	955	953.299	963	960.2	270.333	0.013	24.57	17.26
SK-N230L	SK-N230	SK-N228	Circular	3.5	0	0	1	0	0	0	1.32	975.099	972.7	980	980	181.122	0.013	115.52	88.215
SK-N527L	SK-N527	SK-N528	Circular	2.5	0	0	1	0	0	0	0.51	931.9	929	939	937	564.543	0.013	29.4	12.393
SK-N526L	SK-N526	SK-N528	Circular	1.25	0	0	1	0	0	0	1.09	934.25	929	938	937	482.556	0.013	6.74	0.561
SK-N523L	SK-N523	SK-N524	Circular	2	0	0	1	0	0	0	1	927.55	923.299	933	931	424.771	0.013	22.63	3.449
SK-N309L	SK-N309	SK-N309.1	Circular	1	0	0	1	0	0	0	2.61	1002.05	992.33	1006.5	996.67	371.98	0.013	5.76	5.178
SK-N319L	SK-N319	SK-N317	Circular	1.25	0	0	1	0	0	0	0.93	940	935.58	942	939	473.727	0.013	6.24	5.124
SK-N103L	SK-N103	SK-N102	Natural	0	0	SK-N103XS	1	0	0	0	0	918	918	932	930	644.672	0.035	147.25	217.056
SK-N106L	SK-N106	SK-N105	Special	6.5	0	0	1	0	0	9	0.72	919.4	919.16	930	930	33.295	0.024	429.09	217.187
SK-N105L	SK-N105	SK-N104	Natural	0	0	SK-N105XS	1	0	0	0	0.71	919.16	918.34	930	932	115.684	0.035	697.44	216.544
SK-N217L	SK-N217	SK-N216	Special	3.58	0	0	1	0	0	6	0.38	933.6	933.4	938	939	52.977	0.024	58.35	110.474
756.1&2	SK-N402	SK-N402.1	Circular	4	0	0	2	0	0	0	0.11	927	926.81	938.5	938.36	175.41	0.024	25.58	95.272
SK-N439L	SK-N439	SK-N439.1	Circular	1.75	0	0	1	0	0	0	1.07	969.46	966.73	976.8	972.83	254.79	0.013	16.4	12.445
SK-N100L	SK-N100	R-N001	Natural	0	0	SK-N100XS	1	0	0	0	0.25	887	885	928.99	925.48	792.691	0.035	255274.57	2937.544
SK-N417L	SK-N417	SK-N416	Circular	2	0	0	1	0	0	0	0.5	960	957.554	970	962.5	488.797	0.013	16	13.144
SK-N554L	SK-N554	SK-N555	Circular	1.5	0	0	1	0	0	0	2.62	957.5	944.9	962.5	958.2	480.495	0.013	17.01	8.579
SK-N555L	SK-N555	SK-N553	Circular	2	0	0	1	0	0	0	1.92	944.9	936.75	958.2	944	425.254	0.013	31.32	11.615
SK-N553L	SK-N553	SK-N552	Circular	3	0	0	1	0	0	0	0.97	936.75	934.4	944	944.2	242.797	0.013	65.62	14.589
SK-N552L	SK-N552	SK-N551	Circular	3	0	0	1	0	0	0	0.23	934.4	933	944.2	944	607.637	0.013	32.02	14.436
SK-N438L	SK-N438	SK-N437	Circular	2	0	0	1	0	0	0	1.33	964.44	955	969.5	963	709.559	0.013	26.09	12.086
SK-N407L	SK-N407	SK-N405	Circular	1.5	0	0	1	0	0	0	0.06	932.5	932.4	937	938.5	167.689	0.013	2.57	-0.322
SK-N405L	SK-N405	SK-N406	Circular	2	0	0	1	0	0	0	0.19	932.4	932.099	938.5	938	156.914	0.013	9.92	-0.82
SK-N406L	SK-N406	SK-N404	Circular	2.5	0	0	1	0	0	0	0.94	932.099	930.5	938	938.5	170.195	0.013	39.73	-2.837
SK-N404L	SK-N404	SK-N403	Circular	3.5	0	0	1	0	0	0	2.13	930.5	927	938.5	936	164.38	0.013	146.63	-19.225
SK-N200L	SK-N200	SK-N102	Rectangular	7	0	0	1	0	0	8	0	918	918	930.91	930	83.382	0.013	47.49	318.672
SK-N804L	SK-N804	Node347	Circular	2	0	0	1	1	1	2	0.08	1183.42	1183.1	1186.7	1187.13	378	0.013	6.58	4.633
SK-N803L1	SK-N803	Node406	Circular	1.5	0	0	1	0	0	0	6.56	1183	1177	1187	1185	91.395	0.013	26.88	4.195
SK-N801L1	SK-N801	SK-N805	Circular	2.33	0	0	1	0	0	0	6.44	1180.47	1179.44	1183.2	1182	16	0.013	85.71	38.486

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sakunk-Jones Links																			
Link391	SK-N801	Node375	Natural	2.7	0	2bot8top2.7deepNat	1	0	0	0	-2.12	1180.47	1180.81	1183.2	1183.81	16	0.04	87.84	3.242
Link335	SK-N705	Node324	Natural	3.2	0	6bot12top3.2deepNat	1	0	0	0	1.11	1074.12	1072.81	1077.37	1076.06	118	0.04	175.09	20.031
Link363	SK-N806	Node349	Circular	1.5	0	0	1	0	0	0	-0.43	1179.63	1183.18	1187.13	1187	835	0.013	6.85	-2.051
Link508.2	SK-N806	Node406	Circular	0.5	0	0	1	0	0	0	0	1177	1177	1187.13	1185	15	0.013	0.06	4.3
SK-N805L	SK-N805	SK-N805.1	Trapezoidal	3	0	0	1	1	1	4	7.91	1178	1162.1	1182	1165.1	201	0.035	354.66	38.454
Link368	SK-N802	Node354	Special	2.5	0	0	1	0	0	0	-4.92	1178.4	1181.6	1186.5	1184.88	65	0.024	28.14	-4.31
R-N002L	R-N002	SK-N510	Natural	0	0	R-N002XS	1	0	0	0	0.33	893	887.5	935	929.49	1664.05	0.035	387156.47	2433.252
R-N003L	R-N003	J-N100	Natural	0	0	R-N003XS	1	0	0	0	0.11	902	900.5	950	945	1381.42	0.035	123715.8	2082.763
SK-N504L	SK-N504	SK-N203	Circular	2	0	0	1	0	0	0	0.17	924.5	923	933.29	934.47	890.67	0.013	9.28	11.689
SK-N402L.1	SK-N402.1	SK-N401	Circular	6	0	0	1	0	0	0	0.11	926.81	926.32	938.36	938	443	0.024	76.29	95.256
SK-N317L.1	SK-N317.1	SK-N308	Circular	2.5	0	0	1	0	0	0	0.88	933.65	931.72	938.9	938.8	219.18	0.013	38.49	16.038
Link504	SK-N158.1	SK-N158.2	Trapezoidal	2	0	0	1	0.3	0.3	1.5	2.94	1047	1043.5	1050	1045.5	118.98	0.04	21.86	21.728
Link301	SK-N727	Node296	Natural	3.5	0	8bot15top3.5deepconc	1	0	0	0	0.18	1081.42	1080.29	1084.94	1084.09	642	0.017	253.35	16.911
Link302	Node296	Node297	Natural	3.5	0	6bot15top3.5deepNW	1	0	0	0	0.17	1080.29	1079.64	1084.09	1084.05	390	0.045	81.55	14.666
Link303	Node297	Node298	Natural	3.2	0	6bot18top3.2deepDW	1	0	0	0	-0.05	1079.64	1079.97	1084.05	1083.19	714	0.05	34.92	12.616
Link304	Node298	Node299	Natural	2.6	0	8bot13top2.6deepconc	1	0	0	0	0.26	1079.97	1079.12	1083.19	1083.53	323	0.017	180.77	12.049
Link305	Node299	Node300	Special	4.67	0	0	1	0	0	0	0.19	1079.15	1078.73	1083.53	1082.73	218	0.024	34.33	11.937
Link306	Node300	SK-N727.1	Natural	4	0	8bot15.7top4deepconc	1	0	0	0	0.05	1078.73	1078.2	1082.73	1082.26	1063	0.017	169.59	11.084
Link308	Node301	SK-N725	Natural	3.2	0	6bot12top3.2deepgun	1	0	0	0	-0.09	1077.76	1078.74	1081.76	1081.94	1122	0.022	89.73	10.164
Link310	Node303	Node304	Natural	3.2	0	6bot12top3.2deepgun	1	0	0	0	-0.31	1077.43	1077.86	1080.63	1081.13	140	0.022	168.31	11.813
Link311	Node304	SK-N723	Circular	4	0	0	1	0	0	0	-0.13	1077.13	1077.38	1081.13	1083	199	0.024	27.62	11.808
Link313	Node305	Node306	Natural	2.5	0	5bot9top2.5deepPlast	1	0	0	0	0.12	1077.19	1077.05	1079.69	1079.81	119	0.014	59.44	-0.314
Link314	Node306	Node307	Circular	4	0	0	1	0	0	0	-0.12	1075.81	1076.2	1079.81	1080.3	336	0.024	26.51	-0.69
Link315	Node307	Node307.1	Circular	4	0	0	1	0	0	0	-0.15	1076.2	1076.34	1080.3	1080.44	93	0.024	30.13	-1.032
Link315.1	Node307.1	SK-N721	Special	5	0	0	1	0	0	0	-0.15	1076.344	1076.36	1080.44	1080.46	11	0.024	29.98	-1.307
Link318	Node309	Node310	Rectangular	2.5	0	0	1	0	0	12	0	1076.47	1076.47	1079.12	1079.12	16	0.017	30.04	6.674
Link319	Node310	Node311	Natural	2.5	0	6bot10top2.5deepConc	1	0	0	0	0.03	1076.47	1076.42	1079.12	1079.03	195	0.017	38.46	6.338
Link320	Node311	Node312	Natural	2.5	0	6bot10top2.5deepConc	1	0	0	0	0.13	1076.42	1076.08	1079.03	1079.63	253	0.017	88.13	6.327
Link352	Node311	Node338	Circular	2	0	0	1	0	0	0	-17.12	1076.42	1183.24	1079.03	1188.94	624	0.013	93.6	-0.753
Link321	Node312	Node312.2	Special	5.6	0	0	1	0	0	0	0.07	1076.08	1076.06	1079.63	1079.66	30	0.024	28.37	6.238
Link324	Node313	SK-N719	Special	1.4	1	0	1	0	0	3	-0.12	1075.88	1075.9	1078.38	1080	17	0.024	4.88	6.128
Link321.1	Node312.1	Node313	Natural	2.5	0	5bot10top2.5deepNat	1	0	0	0	0.05	1075.96	1075.88	1078.74	1078.38	160	0.04	20.88	6.104
Link321.2	Node312.2	Node312.1	Natural	2.5	0	6bot10top2.5deepConc	1	0	0	0	0.05	1076.06	1075.96	1079.66	1078.74	194	0.017	54.72	6.156
Link327	Node317	Node318	Natural	2.2	0	5bot10top2.2deepNW	1	0	0	0	0.01	1076.3	1076.29	1078.56	1078.68	165	0.045	5.34	-5.119
Link328	Node318	SK-N713	Natural	2.2	0	5bot10top2.2deepNW	1	0	0	0	0.18	1076.29	1075.45	1078.68	1078.51	470	0.045	29.03	8.642
Link330	Node319	Node320	Circular	1.5	0	0	1	0	0	0	0.12	1076.13	1076.01	1078.29	1078.13	98	0.013	3.68	-8.061
Link331	Node320	SK-N711	Circular	1.5	0	0	1	0	0	0	0.22	1076.08	1075.6	1078.13	1077.94	215	0.013	4.96	5.428
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SK-N710L.1	SK-N710.1	SK-N709	Circular	2.5	0	0	1	1	1	4	0.44	1075.56	1074.72	1082.23	1082	192	0.024	14.71	5.478
SK-N708L2	Node322	SK-N234	Circular	2	0	0	1	0	0	0	5.11	1070.92	1032.15	1075.92	1037.15	758.385	0.013	51.15	42.694
Link333	Node322	Node323	Circular	2	0	0	1	0	0	0	0	1072.92	1072.92	1075.92	1075.92	3	0.013	5.81	-12.182
Link334	Node323	SK-N707	Natural	1.5	0	5bot7top1.5deepNat	1	0	0	0	-0.1	1072.92	1073.02	1075.92	1077.02	101	0.04	10.85	-12.145

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sakunk-Jones Links																			
SK-N705.1L	Node324	Node324.1	Special	2	0	0	1	0	0	0	4.81	1072.81	1051	1076.06	1054	453	0.024	27.87	21.901
Link336	Node324	Node325	Natural	3.2	0	6bot12top3.2deepNat	1	0	0	0	-0.11	1072.81	1072.95	1076.06	1077.95	128	0.04	54.91	6.309
Link337	Node325	Node325.1	Circular	3	0	0	1	0	0	0	-0.06	1072.95	1073.04	1077.95	1076.89	154	0.013	16.13	5.958
Link339	Node326	Node328	Natural	1	0	5bot7top1deepNW	1	0	0	0	0.01	1073.14	1073.11	1075.79	1076.2	563	0.045	1.21	5.367
Link337.1	Node325.1	Node326	Circular	2	0	0	1	0	0	0	-0.06	1073.04	1073.14	1076.89	1075.79	159	0.013	5.67	5.79
Link340	Node328	SK-N704	Natural	3	0	5bot15top3deepNat	1	0	0	0	0.25	1073.11	1072.32	1076.2	1076.2	315	0.04	82.6	4.751
Link343	Node329	Node331	Circular	2	0	0	1	0	0	0	0	1072.47	1072.47	1074.63	1074.63	9	0.013	3.32	4.077
Link347	Node330	SK-N702	Special	3.5	0	0	1	0	0	0	0.05	1071	1070.873	1073.22	1074.04	263	0.024	6.67	8.54
Link342	Node331	Node331.1	Natural	2	0	6bot12top2deepNW	1	0	0	0	0.32	1072.47	1072.36	1074.63	1074.52	34	0.04	41.45	3.937
Link456	Node334	Node440	Circular	2.5	0	0	1	0	0	0	0.03	1069.6	1069.45	1076.2	1075.15	466	0.014	6.83	11.693
SK-N701L.1	SK-N701.1	Node334	Rectangular	3	0	0	1	1	1	2	0.17	1069.74	1069.6	1076.11	1076.2	81	0.013	20.22	11.687
SK-N701L.2	SK-N701.2	SK-N701.1	Circular	2.5	0	0	1	1	1	4	0.17	1070.09	1069.74	1075.88	1076.11	204	0.013	16.99	11.786
SK-N701L.3	SK-N701.3	SK-N701.2	Rectangular	3	0	0	1	1	1	4	0.17	1070.19	1070.09	1075.82	1075.88	58	0.013	51.4	11.909
Link353	Node338	Node339	Circular	2	0	0	1	0	0	0	-0.74	1183.24	1184.42	1188.94	1187.72	160	0.024	10.51	-0.752
Link354	Node339	Node340	Circular	2	0	0	1	0	0	0	-0.17	1184.42	1184.65	1187.72	1187.21	135	0.024	5.06	-0.753
Link355	Node340	Node341	Natural	2.5	0	5bot15top2.5deepGun	1	0	0	0	0.18	1184.65	1184.48	1187.21	1187.09	92	0.022	97.15	-0.945
Link356	Node341	Node342	Circular	2	0	0	1	0	0	0	0.32	1184.48	1183.84	1187.09	1186.84	202	0.024	6.9	-1.928
Link357	Node342	Node343	Circular	2	0	0	1	0	0	0	-0.62	1183.84	1184.2	1186.84	1187.9	58	0.024	9.67	-2.615
Link358	Node343	Node344	Circular	3	0	0	1	0	0	0	-0.16	1179	1179.33	1187.9	1186.32	212	0.024	14.25	-2.12
Link359	Node344	Node345	Natural	2.4	0	3bot8top2.4deepConc	1	0	0	0	0.06	1183.89	1183.67	1186.32	1186.36	349	0.017	35.02	-10.456
Link360	Node345	SK-N804	Circular	2	0	0	1	0	0	0	0.08	1183.67	1183.42	1186.36	1186.7	296	0.013	6.57	-5.52
Link404	Node347	SK-N806	Circular	2	0	0	1	0	0	0	2.07	1183.1	1179.63	1187.13	1187.13	168	0.013	32.55	4.642
Link364	Node349	Node350	Natural	2	0	4bot10top2deepNat	1	0	0	0	0.91	1183.18	1182.32	1187	1184.82	94	0.04	57.74	-2.434
Link365	Node350	Node351	Circular	2	0	0	1	0	0	0	-0.95	1182.32	1182.93	1184.82	1185.93	64	0.024	11.94	-6.216
Link366	Node351	Node351.1	Natural	2	0	4bot10top2deepNat	1	0	0	0	0.21	1182.93	1182.72	1185.93	1186.11	98	0.04	27.92	-7.107
Link366.1	Node351.1	SK-N802	Natural	2	0	4bot10top2deepNat	1	0	0	0	0.43	1182.72	1181.8	1186.11	1186.5	212	0.04	39.73	-8.922
Link370	Node354	Node356	Circular	2	0	0	1	0	0	0	0.12	1182.2	1182.01	1184.88	1184.51	155	0.024	4.3	8.951
Link371	Node356	Node357	Natural	2.5	0	4bot4top2.5deepNat	1	0	0	0	-11.33	1182.01	1182.35	1184.51	1184.85	3	0.04	134.14	8.099
Link372	Node357	Node358	Circular	1.5	0	0	1	0	0	0	0.46	1182.35	1181.91	1184.85	1185	95	0.014	6.67	8.086
Link373	Node358	Node359	Natural	1	0	3bot5top1deepNat	1	0	0	0	-0.28	1181.91	1182.01	1185	1184.01	36	0.04	6.08	8.071
Link374	Node359	Node360	Natural	2	0	3bot7top2deepNat	1	0	0	0	-0.6	1182.01	1182.39	1184.01	1185.39	63	0.04	31.84	7.935
Link375	Node360	Node361	Natural	2	0	3bot7top2deepNat	1	0	0	0	0.16	1182.39	1182.36	1185.39	1185.36	19	0.04	16.29	7.921
Link376	Node361	Node362	Natural	2	0	3bot7top2deepNat	1	0	0	0	0.09	1182.36	1182.32	1185.36	1185.32	47	0.04	11.93	7.91
Link377	Node362	Node363	Natural	3	0	3bot9top3deepNat	1	0	0	0	-0.38	1182.32	1182.5	1185.32	1186.5	47	0.04	55.81	7.903
Link378	Node363	Node364	Natural	3	0	3bot9top3deepNW	1	0	0	0	0.47	1182.5	1182.3	1186.5	1186.3	43	0.045	54.6	7.899
Link379	Node364	Node365	Natural	3	0	2bot8top3deepDW	1	0	0	0	0.2	1182.3	1182.1	1186.3	1186.1	102	0.05	25.07	7.897
Link381	Node365	Node367	Natural	3	0	2bot8top3deepDW	1	0	0	0	0.54	1182.1	1181.7	1186.1	1185.7	74	0.05	41.63	7.895
Link383	Node367	Node368	Natural	2	0	2bot7top2deepNat	1	0	0	0	-0.24	1181.7	1181.92	1185.7	1183.92	93	0.04	17.01	7.893
Link384	Node368	Node369	Natural	1.94	0	4bot4top1.94deepConc	1	0	0	0	-0.33	1181.98	1182.03	1183.92	1184.53	15	0.017	38.4	7.893
Link385	Node369	Node370	Circular	2	0	0	1	0	0	0	0.49	1182.03	1181.54	1184.53	1183.54	100	0.013	15.82	7.893
Link386	Node370	Node371	Natural	2	0	3bot13top2deepNat	1	0	0	0	0.18	1181.54	1181.19	1183.54	1185.62	199	0.04	27.55	7.894
Link387	Node371	Node372	Natural	2.75	0	2bot8top2.7deepNat	1	0	0	0	1.05	1181.19	1179.92	1185.62	1182.92	121	0.04	64.14	7.905

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sakunk-Jones Links																			
Link388	Node372	Node373	Circular	3	0	0	1	0	0	0	2.8	1179.92	1179.64	1182.92	1182.64	10	0.024	60.08	8.022
Link389	Node373	SK-N801	Natural	2.7	0	5bot15top2.7deepNat	1	0	0	0	-0.72	1179.64	1180.47	1182.64	1183.2	115	0.04	119.11	8.144
Link392	Node374	Node376	Special	3	0	0	1	0	0	0	0.28	1180.77	1180.64	1183.51	1182.64	47	0.024	12.02	2.492
Link390	Node375	Node374	Natural	2.7	0	5bot15top2.7deepNat	1	0	0	0	0.03	1180.81	1180.77	1183.81	1183.51	149	0.04	22.96	2.733
Link393	Node376	Node381	Natural	2	0	4bot9top2deepNat	1	0	0	0	-0.18	1180.64	1180.8	1182.64	1182.8	90	0.04	23.65	2.242
Link396	Node379	Node380	Natural	2	0	4bot9top2deepNat	1	0	0	0	0.35	1180.63	1179.72	1183.01	1182.72	263	0.04	32.96	1.933
Link398	Node380	Node382	Circular	3	0	0	1	0	0	0	-0.4	1179.72	1179.86	1182.72	1182.86	35	0.024	22.94	1.659
Link395	Node381	Node379	Natural	2	0	4bot9top2deepNat	1	0	0	0	0.09	1180.8	1180.63	1182.8	1183.01	190	0.04	16.75	2.122
Link399	Node382	Node383	Natural	2.7	0	5bot15top2.7deepNat	1	0	0	0	-0.02	1179.86	1179.87	1182.86	1182.87	43	0.04	21.41	1.412
Link400	Node383	Node384	Circular	3	0	0	1	0	0	0	-1.52	1179.86	1180.18	1182.87	1183.18	21	0.024	44.47	1.236
Link401	Node384	Node385	Natural	2.5	0	2bot10top2.5deepNat	1	0	0	0	0.5	1180.18	1179.34	1183.18	1182.5	169	0.04	47.04	1.218
Link402	Node385	Node386	Natural	2.5	0	2bot10top2.5deepNat	1	0	0	0	-0.08	1179.34	1179.5	1182.5	1182.5	190	0.04	19.37	1.199
Link403	Node386	G-N278	Natural	2.5	0	2bot10top2.5deepNat	1	0	0	0	0.6	1179.5	1178.93	1182.5	1181.48	95	0.04	51.67	1.212
GLink350	G-N278	G-Node319	Natural	2.5	0	5bot10top2.5deep Nat	1	0	0	0	-0.49	1178.98	1179.34	1181.48	1182.83	74	0.04	65.25	0.55
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SK-N500L.1	SK-N500.1	SK-N504	Circular	2	0	0	1	0	0	0	0.17	925.35	924.5	932.62	933.29	505	0.013	9.28	9.463
SK-N415L.1	SK-N415.1	SK-N413	Circular	3	0	0	1	0	0	0	1.1	939.85	935.44	948.17	943.8	400	0.024	37.93	27.935
SK-N414L.1	SK-N414.1	SK-N413	Circular	2	0	0	1	0	0	0	2.93	942.94	935.44	950.3	943.8	256.28	0.013	38.7	4.624
SK-N439L.1	SK-N439.1	SK-N438	Circular	2	0	0	1	0	0	0	1.07	966.73	964.44	972.83	969.5	214	0.013	23.4	12.327
SK-N418L.1	SK-N418.1	SK-N416	Circular	2	0	0	1	0	0	0	1.3	962.91	957.55	969	962.5	413	0.013	25.77	15.172
SK-N419L.1	SK-N419.1	SK-N418	Circular	1.5	0	0	1	0	0	0	1.49	969.37	966.04	976.45	972.8	224	0.013	12.81	0
SK-N309L.1	SK-N309.1	SK-N310	Circular	1.25	0	0	1	0	0	0	2.61	992.33	981.88	996.67	986.1	400	0.013	10.44	5.136
SK-N324L.1	SK-N324.1	SK-N314	Circular	3.5	0	0	1	0	0	0	1.34	945.85	942.88	955.72	952.2	221	0.013	116.63	75.172
SK-N324L.2	SK-N324.2	SK-N324.1	Circular	4	0	0	1	0	0	0	1.34	953.38	945.85	964.63	955.72	560	0.013	166.57	77.779
SK-N321L.1	SK-N321.1	SK-N322	Circular	2.5	0	0	1	0	0	0	4.96	997.83	971.4	1004.08	976.4	533	0.013	91.34	13.86
SK-N227L.1	SK-N227.1	SK-N226	Circular	3.5	0	0	1	0	0	3	1.35	959.418	953.88	965.38	958	410	0.013	116.93	88.262
SK-N167L.1	SK-N167.1	SK-N165	Circular	2.5	0	0	1	0	0	0	1.98	1025.71	1020.25	1030.46	1025	276	0.013	57.69	16.961
SK-N157L.1	SK-N157.1	SK-N147	Natural	1.5	0	3bot4top1.5deepconc	1	0	0	0	2.37	997.47	987	1002.47	992	442	0.013	63.48	35.892
Link494	Node401	SK-N717.1	Circular	1	0	0	1	0	0	0	157.8	1076.97	1065.34	1088.38	1078.26	7.37	0.013	44.68	0
Link342.1	Node331.1	Node330	Natural	2	0	6bot12top2deepNW	1	0	0	0	0.32	1072.36	1071	1074.52	1073.22	419	0.04	41.62	8.691
G-L142	Node387.1	G-N143	Circular	1.5	0	0	1	0	0	0	2.41	1090.2	1077.34	1095.95	1082.6	533.339	0.013	16.31	16.53
G-L143	G-N143	G-N144	Circular	1.5	0	0	1	0	0	0	1.1	1077.34	1074.55	1082.6	1079.82	254.439	0.013	11	18.751
SK-N806L	Node406	Node406.2	Circular	2	0	0	1	1	1	4	8.9	1177	1165.09	1185	1172.4	133.83	0.013	67.7	14.848
SK-N806L.1	Node406.1	Node406.3	Trapezoidal	4	0	0	1	1	1	4	8.9	1153.34	1132.61	1159.97	1138.03	233	0.035	662.37	14.779
SK-N806L.2	Node406.2	Node406.1	Circular	2	0	0	1	1	1	4	8.9	1165.09	1153.34	1172.4	1159.97	132	0.013	67.25	14.822
SK-N806L.4	Node406.3	Node320	Circular	1.5	0	0	1	1	1	4	8.9	1132.61	1076.01	1138.03	1078.13	636	0.013	31.34	14.733
SK-N805L.1	SK-N805.1	SK-N805.4	Circular	1.5	0	0	1	1	1	4	7.5	1162.1	1159.1	1165.1	1162.1	40	0.013	28.84	32.39
SK-N805L.7	SK-N805.4	SK-N805.2	Trapezoidal	3	0	0	1	1	1	4	13.78	1159.1	1154	1162.1	1157	37	0.035	466.74	32.385
SK-N805L.6	SK-N805.2	SK-N805.3	Trapezoidal	3	0	0	1	1	1	4	3.91	1154	1150.4	1157	1153.4	92	0.035	249.85	32.369
SK-N805L.5	SK-N805.3	Node414	Circular	3	0	0	1	1	1	4	6.82	1150.4	1136.9	1153.4	1139.9	198	0.013	174.63	32.363
Link430	Node414	Node414.2	Trapezoidal	3	0	0	1	1	1	4	2.32	1136.9	1136.18	1139.9	1139.18	31	0.035	191.89	32.373
Link430.1	Node414.1	Node414.6	Circular	1.5	0	0	1	1	1	4	2.99	1135.9	1126.1	1138.9	1128.2	328	0.013	18.16	18.051

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sakunk-Jones Links																			
Link430.2	Node414.2	Node414.1	Trapezoidal	3	0	0	1	1	1	4	2.33	1136.18	1135.9	1139.18	1138.9	12	0.035	192.02	18.062
Link434	Node414.2	Node418	Trapezoidal	3	0	0	1	1	1	4	0.67	1136.18	1136.1	1139.18	1139.1	12	0.035	102.64	14.311
Link441	Node418	Node425	Circular	1.5	0	0	1	0	0	0	3.42	1136.1	1134.8	1139.1	1137.8	38	0.013	19.31	14.302
Link430.1.1	Node414.6	Node414.4	Trapezoidal	3	0	0	1	1	1	4	4.08	1125.2	1121.2	1128.2	1124.2	98	0.035	254.76	18.047
Link430.3	Node414.4	Node414.5	Circular	1.5	0	0	1	1	1	4	5.27	1121.2	1118.3	1124.2	1121.3	55	0.013	24.18	18.044
Link430.4	Node414.5	Node422	Trapezoidal	3	0	0	1	1	1	4	6.4	1118.3	1113.82	1121.3	1116.82	70	0.035	319.11	18.037
Link438	Node422	Node422.1	Circular	2.5	0	0	1	1	1	4	6.39	1113.82	1110.18	1116.82	1112.68	57	0.013	104.25	18.036
Link438.1	Node422.1	Node422.2	Trapezoidal	0.5	0	0	1	1	1	4	6.39	1110.18	1081.98	1112.68	1082.48	441	0.035	13.45	18.043
Link438.1.1	Node422.2	SK-N705	Trapezoidal	0.5	0	0	1	1	1	4	6.39	1081.98	1074.12	1082.48	1077.37	123	0.035	13.47	32.23
Link442	Node425	Node425.1	Trapezoidal	3	0	0	1	1	1	4	2.08	1134.8	1125.2	1137.8	1128.2	462	0.035	181.77	14.297
Link443	Node426	Node427	Trapezoidal	3	0	0	1	1	1	4	-1.33	1111	1111.4	1114	1114.4	30	0.035	145.13	14.31
Link444	Node427	Node427.1	Circular	1.5	0	0	1	0	0	0	5.81	1111.4	1109.83	1114.4	1112.52	27	0.013	25.21	14.31
Link445	Node428	Node422.2	Trapezoidal	0.5	0	0	1	1	1	4	4.61	1106.4	1081.98	1108.4	1082.48	530	0.035	11.42	14.288
Link444.1	Node427.1	Node428	Circular	2	0	0	1	0	0	0	5.81	1109.83	1106.4	1112.52	1108.4	59	0.013	54.24	14.31
Link442.1	Node425.1	Node426	Circular	1.5	0	0	1	0	0	0	4.24	1125.2	1111	1128.2	1114	335	0.013	21.63	14.303
Link419.1	Node387.2	Node387.4	Natural	2	0	4bot6top2deepNat	1	0	0	0	6.67	1095.7	1086.3	1097.7	1089.77	141	0.04	107.09	11.594
G-L278.1	Node387.2	Node387.1	Circular	1.5	0	4bot6top2deepNat	1	0	0	0	4.17	1091.2	1090.7	1097.7	1095.95	12	0.013	21.34	16.544
G-L278.2	Node387.3	Node387.2	Circular	1.5	0	4bot6top2deepNat	1	0	0	0	6.03	1099	1095.2	1101	1097.7	63	0.013	25.78	27.953
Link419.2.	Node387.4	Node387.3.	Circular	1	0	4bot6top2deepNat	1	0	0	0	0.26	1086.3	1085.9	1089.77	1088.6	152	0.013	1.83	5.017
Link419.4.	Node387.3.	Node331.1	Circular	0.833	0	4bot6top2deepNat	1	0	0	0	3.9	1083.8	1072.36	1088.6	1074.52	293	0.013	4.32	5.011
559.1&2.1	SK-N307.1	SK-N306	Circular	4	0	0	2	0	0	0	0.44	930.572	927.299	936.88	934	743.706	0.013	95.29	131.69
SK-N318L.1	SK-N318.1	SK-N316	Circular	0.67	0	0	1	0	0	0	0.33	938.32	938.15	941.17	940	52	0.013	0.7	2.23
SK-N317L.2	SK-N317.2	SK-N317.1	Circular	2.5	0	0	1	0	0	0	0.88	935.13	933.65	938.98	938.9	168	0.013	38.55	15.837
SK-N218L.1	SK-N218.1	SK-N217	Trapezoidal	3	0	0	1	0.5	0.5	3	0.33	934	933.6	938.4	938	123	0.017	84.04	115.347
Link458	Node441	Node442	Circular	2	0	0	1	0	0	0	0.62	956.52	956.47	960.8	961.4	8	0.013	17.88	13.597
Link459	Node442	Node443	Circular	2	0	0	1	0	0	0	0.39	956.37	956.15	961.4	961.9	56	0.013	14.14	13.688
Link460	Node443	Node444	Circular	2	0	0	1	0	0	0	0.4	956.05	955.07	961.9	960.31	242	0.013	14.4	13.75
Link461	Node444	Node445	Circular	2	0	0	1	0	0	0	1.3	954.97	954.05	960.31	959.32	71	0.013	25.9	13.754
Link462	Node445	SK-N431	Circular	2	0	0	1	0	0	0	0.21	953.95	953.78	959.32	958.4	82	0.013	10.33	13.698
Link464	Node446	Node447	Circular	2.5	0	0	1	0	0	0	1.82	952.45	950.9	956.91	954.8	85	0.024	30.09	14.317
Link465	Node447	Node448	Circular	2.5	0	0	1	0	0	0	0.89	950.9	944	954.8	951.76	774	0.024	20.98	13.969
Link466	Node448	SK-N424	Circular	2.5	0	0	1	0	0	0	2.21	944	940.7	951.76	958.5	149	0.024	33.09	14.036
Link468	Node449	Node450	Circular	2.5	0	0	1	0	0	0	0.69	938.4	937.8	943.62	943.05	87	0.024	18.48	27.575
Link469	Node450	Node451	Circular	2.5	0	0	1	0	0	0	0.46	937.8	937.2	943.05	945.73	130	0.024	15.13	27.564
Link470	Node451	Node452	Circular	2.5	0	0	1	0	0	0	0	937.2	937.2	945.73	947.54	10	0.024	3.12	38.62
Link471	Node452	Node453	Special	5.33	0	0	1	0	0	0	0.59	937.2	935.8	947.54	939.18	236	0.024	84.66	38.531
Link472	Node453	Node456	Natural	2.6	0	6bot10top2.6deepNat	1	0	0	0	0.39	935.8	934.2	939.18	938.7	411	0.04	67.48	38.158
Link474	Node455	SK-N402	Natural	2	0	3bot5top2deepNat	1	0	0	0	1.18	933.8	927	938.3	938.5	575	0.04	33.82	37.128
Link473	Node456	Node455	Circular	4.5	0	0	1	0	0	0	0.18	934.2	933.8	938.7	938.3	220	0.024	45.42	37.667
GLink351	G-Node319	G-Node320	Circular	4	0	0	1	0	0	0	0	1176.2	1176.2	1182.83	1182.79	149	0.024	2.85	0.285
GLink353	G-Node320	GNode320.2	Natural	2.5	0	4bot8top2.5deepNat	1	0	0	0	0.16	1179.27	1178.77	1182.79	1182.13	306	0.04	28.75	0
GLink353.2	GNode320.2	GNode320.1	Natural	2.5	0	5bot10top2.5deep Nat	1	0	0	0	0.17	1178.77	1178.44	1182.13	1181.7	197	0.04	38.24	0

Name	Upstream Node Name	Downstream Node Name	Shape	Diameter (ft.)	Height of Rectangle (ft.)	Natural Section Reference	Number of Barrels	Right-hand Side Slope	Left-hand side slope	Bottom Width (ft.)	Conduit Slope	Upstream Invert Elevation	downstream Invert Elevation	Upstream Ground Elevation (ft.)	Downstream Ground Elevation (ft.)	Length (ft.)	Roughness	25 yr Design Full Flow cfs	25 yr Max Flow cfs
Sakunk-Jones Links																			
GLink353.1	GNode320.1	G-Node322	Natural	2.5	0	4bot8top2.5deepNat	1	0	0	0	0.16	1178.44	1177.61	1181.7	1180.61	507	0.04	28.78	0
GLink356	G-Node322	G-Node325	Circular	3	0	0	1	0	0	0	-1.4	1177.61	1177.89	1180.61	1180.89	20	0.024	42.69	0
GLink357	G-Node325	G-Node326	Natural	2.5	0	3.5bot8top2.5deepNat	1	0	0	0	-0.06	1177.89	1178.08	1180.89	1180.58	313	0.04	16.51	0
GLink358	G-Node326	GNode326.1	Circular	1.5	0	0	1	0	0	0	0.56	1178.08	1175.82	1180.58	1180.2	400	0.014	7.33	0
GLink358.1	GNode326.1	G-Node327	Circular	2	0	0	1	0	0	0	0.56	1175.82	1174.66	1180.2	1180	206	0.014	15.76	0
GLink360	G-Node327	G-N279-1	Natural	2.6	0	3bot8top2.6deepConc	1	0	0	0	0.04	1177.31	1177.21	1180	1179.9	258	0.017	30.8	0
Glink361	G-N279-1	Node468	Circular	2	0	0	1	0	0	0	0.09	1177.21	1176.42	1179.9	1178.42	900	0.013	6.7	0
G-L144	G-N144	G-N144B	Circular	1.5	0	0	1	0	0	0	3.15	1074.55	1073.5	1079.82	1080.09	33.35	0.013	18.67	18.751
Link507	Node471	SK-N329	Circular	1	0	0	1	0	0	0	4.52	1062.985	1061.34	1074.5	1070.15	36.4	0.013	7.64	7.577
SK-N719L2.1	SK-N717.1	SK-N329	Circular	1.75	0	0	1	0	0	0	9.76	1065.34	1061.34	1078.26	1070.15	41	0.013	49.37	20.41
Link495	Node473	Node474	Circular	4	0	0	1	0	0	0	2.72	959.6	957.2	964.6	962.2	88.38	0.013	237.86	0
Link496	Node474	Node475	Circular	4	0	0	1	0	0	0	1.17	957.2	953.6	962.2	958.6	306.86	0.013	155.58	0
Link497	Node475	Node478	Circular	4	0	0	1	0	0	0	1.14	953.6	951.5	958.6	956.5	184.92	0.013	153.08	0
Link502	Node476	Node480	Circular	4	0	0	1	0	0	0	2.41	950.7	950.3	955.7	955.3	16.63	0.013	225.71	0
Link499	Node477	SK-N223	Special	5.6	0	0	1	0	0	0	0.62	948.25	947.75	952.5	952	80.6	0.024	86.78	-0.123
Link500	Node478	Node476	Circular	4	0	0	1	0	0	0	0.68	951.5	950.7	956.5	955.7	118.15	0.013	118.1	0
Link501	Node479	Node473	Circular	4	0	0	1	0	0	0	5.15	962.3	959.6	967.3	964.6	52.43	0.013	323.83	0
Link498	Node480	Node477	Circular	4	0	0	1	0	0	0	0.73	950.3	948.25	955.3	952.5	281.81	0.013	122.51	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Link505	Node324.1	SK-N158.1	Trapezoidal	1	0	0	1	0.5	0.5	6	40	1051	1049	1054	1050	5	0.04	130.93	21.96
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SK-N158.1L.1	SK-N158.2	SK-N158	Circular	2	0	0	1	2	2	4	1.79	1043.5	1028	1045.5	1032	868	0.028	14.04	15.075
G-L278	G-N278	Node387.3	Natural	2	0	4bot6top2deepNat	1	0	0	0	5.37	1178.84	1099	1181.48	1101	1486.22	0.04	96.1	31.431