

Hidden Columns For Area & Hyd Radiu

System ID		Conduit Properties								Hydraulic Calculations For Storm Line											HGL							Headloss Calculations					Design			Remarks						
		Collection Point Sta		Length	# of Barrels	Pipe Size	Box		Type	Area	Wetted Perimeter Pw	Hydraulic Radius	Manning's n	Flowline Elevation		Slope	Incremental Drainage Area			Upstream Tc	Design Storm Freq.	Intensity I	Runoff Q	Conduit Capacity Qc	Partial Flow	Velocity V	Time In Conduit	Friction Slope Sf	Friction Head-loss	U/S	D/S	v1^2/2g	v2^2/2g	Jct. Type	Coeff.Kj		Head-loss HL	Design HGL	Top of Curb Elev	HGL Below T/C		
		U/S	D/S				Span	Rise						Up-stream	Down-stream		Inlet ID	Area	Runoff Coeff. C																						Incremental C*A	Accumul-ated C*A
Storm Line A																																										
1	1	40	0	40	1	36	-	-	RCP	7.07	9.42	0.75	0.013	511.0	510.6	1.00%	Pond	9.76	0.65	-	-	10.00	100	9.80	45.80	66.70	Yes	6.50	-	0.0047	0.19	512.89	512.49	Partial Flow					-	-	-	Culvert
Storm Line B																																										
4	4	154	151	3	1	18	-	-	RCP	1.77	4.71	0.38	0.013	518.5	518.4	4.13%	-	-	-	-	-	10.00	100	9.80	3.50	21.35	Yes	1.99	-	0.0011	0.00	518.91	518.81	Partial Flow					518.91	529	10.09	Partial Flow
3	3	151	35	116	1	18	-	-	RCP	1.77	4.71	0.38	0.013	518.4	513.73	4.13%	-	-	-	-	-	10.00	100	9.80	10.70	21.35	Yes	6.07	-	0.0104	1.20	519.15	515.91	Partial Flow					518.81	529	10.19	Partial Flow
2	2	35	29	6	1	36	-	-	RCP	7.07	9.42	0.75	0.013	512.2	512.14	1.00%	-	-	-	-	-	10.00	100	9.80	47.70	66.70	Yes	6.77	-	0.0051	0.03	515.54	515.51	0.85	0.71	Wye	0.35	0.37	515.91	518	2.09	
1	1	29	15	14	1	36	-	-	RCP	7.07	9.42	0.75	0.013	512.1	512	1.00%	-	-	-	-	-	10.00	100	9.80	52.10	66.70	Yes	7.39	-	0.0061	0.09	515.09	515.00	0.00	0.85	Wye	0.35	0.42	515.51	516	0.49	
Storm Line C																																										
8	8	477	468	9	1	27	-	-	RCP	3.98	7.07	0.56	0.013	533.9	532.98	2.40%	B	-	-	-	-	10.00	100	9.80	6.90	47.98	Yes	1.74	-	0.0005	0.00	534.48	533.56	Partial Flow					534.48	540.4	5.92	Partial Flow
7	7	468	457	11	1	27	-	-	RCP	3.98	7.07	0.56	0.013	533.0	532.71	2.40%	C	-	-	-	-	10.00	100	9.80	15.50	47.98	Yes	3.91	-	0.0025	0.03	533.88	533.59	Partial Flow					533.56	539.8	6.24	Partial Flow
6	6	457	384	73	1	27	-	-	RCP	3.98	7.07	0.56	0.013	532.7	530.96	2.40%	-	-	-	-	-	10.00	100	9.80	24.10	47.98	Yes	6.08	-	0.0061	0.44	533.83	532.09	Partial Flow					533.59	539.8	6.21	Partial Flow
5	5	384	265	119	1	27	-	-	RCP	3.98	7.07	0.56	0.013	531.0	528.1	2.40%	-	-	-	-	-	10.00	100	9.80	24.40	47.98	Yes	6.15	-	0.0062	0.74	532.13	529.23	Partial Flow					532.09	538.25	6.16	Partial Flow
4	4	265	262	3	1	30	-	-	RCP	4.91	7.85	0.63	0.013	527.9	527.61	8.00%	-	-	-	-	-	10.00	100	9.80	24.40	116.01	Yes	4.98	-	0.0035	0.01	528.67	528.38	Partial Flow					529.23	534.9	5.67	Partial Flow
3	3	262	239	23	1	30	-	-	RCP	4.91	7.85	0.63	0.013	527.6	525.77	8.00%	-	-	-	-	-	10.00	100	9.80	32.30	116.01	Yes	6.60	-	0.0062	0.14	528.50	526.67	Partial Flow					528.38	534.9	6.52	Partial Flow
2	2	239	163	76	1	30	-	-	RCP	4.91	7.85	0.63	0.013	525.8	520.76	5.10%	-	-	-	-	-	10.00	100	9.80	32.60	92.63	Yes	6.66	-	0.0063	0.48	526.82	521.78	Partial Flow					526.67	534	7.33	Partial Flow
1	1	163	0	163	1	30	-	-	RCP	4.91	7.85	0.63	0.013	520.8	512.45	5.10%	-	-	-	-	-	10.00	100	9.80	37.00	92.63	Yes	7.56	-	0.0081	1.33	521.08	515.72	0.00	0.89	Wye	0.35	0.47	521.78	528	6.22	Partial Flow
Storm Line D																																										
5	5	509	471	38	1	15	-	-	RCP	1.23	3.93	0.31	0.013	540.5	537.5	7.89%	A	-	-	-	-	10.00	100	9.80	0.90	18.15	Yes	0.74	-	0.0002	0.01	540.69	537.69	Partial Flow					540.69	544.5	3.81	Partial Flow
4	4	471	376	95	1	15	-	-	RCP	1.23	3.93	0.31	0.013	537.5	536.5	1.05%	-	-	-	-	-	10.00	100	9.80	2.40	6.62	Yes	1.96	-	0.0014	0.13	538.02	537.02	Partial Flow					537.69	544.8	7.11	Partial Flow
3	3	376	270	106	1	15	-	-	RCP	1.23	3.93	0.31	0.013	536.5	532	4.25%	-	-	-	-	-	10.00	100	9.80	2.60	13.32	Yes	2.12	-	0.0016	0.17	536.87	532.37	Partial Flow					537.02	541.5	4.48	Partial Flow
2	2	270	154	116	1	15	-	-	RCP	1.23	3.93	0.31	0.013	532.0	521.01	9.47%	-	-	-	-	-	10.00	100	9.80	2.80	19.88	Yes	2.29	-	0.0019	0.22	532.32	521.33	Partial Flow					532.37	536	3.63	Partial Flow
1	1	154	0	154	1	18	-	-	RCP	1.77	4.71	0.38	0.013	520.8	518.4	1.50%	-	-	-	-	-	10.00	100	9.80	7.20	12.87	Yes	4.09	-	0.0047	0.72	521.60	519.20	Partial Flow					521.33	529	7.67	Partial Flow