Foul sewer Network Schedule, Design in accordance with B.S. EN 752:2008 - Drain and Sewer Systems Outside Building — Ks = 0.6

	US MH CL [mod]	US MH IL [mod]	DS MH IL [mod]	Length [m]	Fall (m)	Grad. [1 in…]	Pipe Diameter [mm]	Cover to US Soffit [m]	Vel. [m/s]	Discharge Units	Total Discharge Units	Peak Flow (l/sec)	Prop. Capacity	Prop. Velocity	Partial Velocity [m/s]
F1.0-F1.1	57.600	56.948	56.121	49.283	0.827	60	150	0.502	1.30	166.000	166.000	4.50	0.29	0.875	1.14
F1.1-F1.2	57.600	56.121	55.888	14.523	0.233	62	150	1.329	1.27	28.000	326.000	5.30	0.24	0.840	1.07
F2.0-F1.1	57.700	57.100	56.121	14.523	0.979	15	150	0.450	2.60	132.000	132.000	4.10	0.64	1.050	2.73

Surface Water Sewer Network Schedule - Design using Wallingford Rational Method, **2 yrs return period** — Ks = 1.5

	US MH CL [mod]	US MH IL [mod]	DS MH IL [mod]	Length [m]	Grad. [1 in…]	Pipe Diameter [mm]	Cover to US Soffit [m]	Vel. [m/s]	Time of Flow [min]	Time of Conc. [min]	Rate of Rainfall [mm/hr]	% Imperv.	Imperv. Area [m2]	Cumul. Imperv. Area [m2]	Actual Rate of Flow [m3/s]	Allow. Rate of Flow [m3/s]	Prop. Capacity	Prop. Velocity	Partial Velocity [m/s]
S1.0-S1.1	57.600	57.191	56.836	42.624	120	225	0.184	1.046	0.679	4.679	69.36	100	773	773	0.015	0.042	0.36	0.920	0.96
S1.1-S1.2	57.600	56.836	56.644	23.021	120	225	0.539	1.047	0.366	5.045	66.29	100	410	1183	0.022	0.042	0.52	1.000	1.05
S1.2-S1.3	57.600	56.644	56.599	5.370	119	225	0.731	1.050	0.085	5.131	65.63	100	38	1221	0.022	0.042	0.53	1.000	1.05
S1.3-S1.4	57.600	56.599	56.539	7.210	120	300	0.701	1.264	0.095	5.226	64.91	100	132	4450	0.080	0.089	0.90	1.130	1.43
S1.4-Ex.SMH	57.650	56.539	56.465	8.920	121	300	0.811	1.262	0.118	5.343	64.05	100	0	4450	0.079	0.089	0.89	1.130	1.43
Note: Flow Control fitted at S1.4 resisting flow to 3.7 l/sec																			
S2.0-S2.1	57.600	57.120	56.980	22.788	163	150	0.330	0.685	0.555	4.555	70.49	100	315	315	0.006	0.012	0.51	1.000	0.68
S2.1-S2.2	57.600	56.980	56.693	42.789	149	300	0.320	1.134	0.629	5.184	65.23	100	1377	1883	0.034	0.080	0.43	1.135	1.29
S2.2-S2.3	57.600	56.693	56.653	5.609	140	300	0.607	1.170	0.080	5.263	64.63	100	106	1989	0.036	0.083	0.43	1.140	1.33
S2.3-S1.3	57.600	56.653	56.599	8.197	152	300	0.647	1.124	0.122	5.385	63.75	100	0	1989	0.035	0.079	0.44	1.150	1.29
S3.0-S3.1	57.600	57.130	56.863	41.664	156	225	0.245	0.917	0.757	4.757	68.67	100	735	735	0.014	0.036	0.38	0.920	0.84
S3.1-S3.2	57.700	56.863	56.716	24.105	164	225	0.612	0.895	0.449	5.206	65.05	100	373	1108	0.020	0.036	0.56	1.030	0.92
S3.2-S1.3	57.600	56.716	56.599	14.190	121	225	0.659	1.041	0.227	5.433	63.41	100	0	1108	0.020	0.041	0.47	0.975	1.02
S4.0-S4.1	57.600	57.156	56.900	14.340	56	150	0.294	1.171	0.204	4.204	73.96	100	93	93	0.002	0.021	0.09	0.630	0.74
S4.1-S2.1	57.600	56.900	56.666	12.724	54	150	0.550	1.189	0.178	4.382	72.14	100	98	191	0.004	0.021	0.18	0.775	0.92

Surface Water Sewer Network Schedule - Design using Wallingford Rational Method, **30 yrs return period** — Ks = 1.5

	US MH CL [mod]	US MH IL [mod]	DS MH IL [mod]	Length [m]	Grad. [1 in…]	Pipe Diameter [mm]	Cover to US Soffit [m]	Vel. [m/s]	Time of Flow [min]	Time of Conc. [min]	Rate of Rainfall [mm/hr]	% Imperv.	Imperv. Area [m2]	Cumul. Imperv. Area [m2]	Actual Rate of Flow [m3/s]	Allow. Rate of Flow [m3/s]	Prop. Capacity	Prop. Velocity	Partial Velocity [m/s]
S1.0-S1.1	57.600	57.191	56.836	42.624	120	225	0.184	1.046	0.679	4.679	119.21	100	773	773	0.026	0.042	0.62	0.920	0.96
S1.1-S1.2	57.600	56.836	56.644	23.021	120	225	0.539	1.047	0.366	5.045	113.94	100	410	1183	0.037	0.042	0.90	1.920	2.01
S1.2-S1.3	57.600	56.644	56.599	5.370	119	225	0.731	1.050	0.085	5.131	112.80	100	38	1221	0.038	0.042	0.92	2.920	3.06
S1.3-S1.4	57.600	56.599	56.539	7.210	120	300	0.701	1.264	0.095	5.226	111.56	100	132	4450	0.138	0.089	1.54	3.920	4.95
S1.4-Ex.SMH	57.650	56.539	56.465	8.920	121	300	0.811	1.262	0.118	5.343	110.08	100	0	4450	0.136	0.089	1.53	4.920	6.21
Note: Flow Control fitted at S1.4 resisting flow to 3.7 l/sec																			
S2.0-S2.1	57.600	57.120	56.980	22.788	163	150	0.330	0.685	0.555	4.555	121.15	100	315	315	0.011	0.012	0.88	1.020	0.70
S2.1-S2.2	57.600	56.980	56.693	42.789	149	300	0.320	1.134	0.629	5.184	112.11	100	1377	1883	0.059	0.080	0.73	1.075	1.22
S2.2-S2.3	57.600	56.693	56.653	5.609	140	300	0.607	1.170	0.080	5.263	111.08	100	106	1989	0.061	0.083	0.74	1.075	1.26
S2.3-S1.3	57.600	56.653	56.599	8.197	152	300	0.647	1.124	0.122	5.385	109.57	100	0	1989	0.061	0.079	0.76	1.075	1.21
S3.0-S3.1	57.600	57.130	56.863	41.664	156	225	0.245	0.917	0.757	4.757	118.03	100	735	735	0.024	0.036	0.66	1.050	0.96
S3.1-S3.2	57.700	56.863	56.716	24.105	164	225	0.612	0.895	0.449	5.206	111.81	100	373	1108	0.034	0.036	0.97	1.150	1.03
S3.2-S1.3	57.600	56.716	56.599	14.190	121	225	0.659	1.041	0.227	5.433	108.98	100	0	1108	0.034	0.041	0.81	1.110	1.16
S4.0-S4.1	57.600	57.156	56.900	14.340	56	150	0.294	1.171	0.204	4.204	127.12	100	93	93	0.003	0.021	0.16	0.740	0.87
S4.1-S2.1	57.600	56.900	56.666	12.724	54	150	0.550	1.189	0.178	4.382	123.99	100	98	191	0.007	0.021	0.31	0.875	1.04