


GTA Civils Ltd		Page 1
66a Church Walk Burgess Hill West Sussex RH15 9AS	PHASE 1A HOPLANDS FARM, HERSDEN NETWORK TO FWMH0601	
Date 28.08.18 File 7178 FW NETWORK TO 0601.mdx	Designed by DMS Checked by	
Micro Drainage	Network 2015.1	

FOUL SEWERAGE DESIGN










Design Criteria for Foul - Main

Pipe Sizes STANDARD Manhole Sizes STANDARD

Industrial Flow (l/s/ha)	0.00	Domestic (l/s/ha)	0.00	Maximum Backdrop Height (m)	1.500
Industrial Peak Flow Factor	0.00	Domestic Peak Flow Factor	6.00	Min Design Depth for Optimisation (m)	1.200
Flow Per Person (l/per/day)	222.00	Add Flow / Climate Change (%)	0	Min Vel for Auto Design only (m/s)	0.75
Persons per House	3.00	Minimum Backdrop Height (m)	0.200	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Network Design Table for Foul - Main

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
F1.000	7.830	0.098	79.9	0.000	6	0.0	1.500	o	100	
F1.001	34.360	0.430	79.9	0.000	0	0.0	1.500	o	100	
F1.002	7.880	0.099	79.6	0.000	1	0.0	1.500	o	100	
F1.003	10.690	0.134	79.8	0.000	1	0.0	1.500	o	100	
F1.004	44.100	0.891	49.5	0.000	9	0.0	1.500	o	150	
F2.000	23.680	1.570	15.1	0.000	2	0.0	1.500	o	100	
F3.000	21.010	1.320	15.9	0.000	2	0.0	1.500	o	100	
F1.005	5.740	0.039	147.2	0.000	2	0.0	1.500	o	150	
F1.006	20.800	2.921	7.1	0.000	0	0.0	1.500	o	150	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F1.000	33.582	0.000	0.0	6	0.0	15	0.37	0.74	5.8	0.3
F1.001	33.484	0.000	0.0	6	0.0	15	0.37	0.74	5.8	0.3
F1.002	33.054	0.000	0.0	7	0.0	16	0.39	0.75	5.9	0.3
F1.003	32.955	0.000	0.0	8	0.0	17	0.41	0.75	5.9	0.4
F1.004	32.771	0.000	0.0	17	0.0	20	0.58	1.25	22.0	0.8
F2.000	33.500	0.000	0.0	2	0.0	6	0.46	1.72	13.5	0.1
F3.000	33.250	0.000	0.0	2	0.0	6	0.45	1.67	13.2	0.1
F1.005	31.880	0.000	0.0	23	0.0	30	0.43	0.72	12.7	1.1
F1.006	31.841	0.000	0.0	23	0.0	14	1.24	3.30	58.3	1.1

66a Church Walk
Burgess Hill
West Sussex RH15 9AS

PHASE 1A
HOPLANDS FARM, HERSDEN
NETWORK TO FWMH0601

Date 28.08.18

Designed by DMS

File 7178 FW NETWORK TO 0601.mdx

Checked by


Micro Drainage

Network 2015.1



Manhole Schedules for Foul - Main

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out			Pipes In			Backdrop (mm)
					PN	Invert Level (m)	Diameter (mm)	PN	Invert Level (m)	Diameter (mm)	
F1	35.060	1.478	Open Manhole	450	F1.000	33.582	100				
F2	35.140	1.656	Open Manhole	450	F1.001	33.484	100	F1.000	33.484	100	
F3A	34.960	1.906	Open Manhole	450	F1.002	33.054	100	F1.001	33.054	100	
F3	34.850	1.895	Open Manhole	450	F1.003	32.955	100	F1.002	32.955	100	
F4	34.745	1.974	Open Manhole	1200	F1.004	32.771	150	F1.003	32.821	100	
F5	34.850	1.350	Open Manhole	450	F2.000	33.500	100				
F6	34.605	1.355	Open Manhole	450	F3.000	33.250	100				
F7	34.890	3.010	Open Manhole	1200	F1.005	31.880	150	F1.004	31.880	150	
								F2.000	31.930	100	
								F3.000	31.930	100	
F9	35.000	3.159	Open Manhole	1200	F1.006	31.841	150	F1.005	31.841	150	
F0601	34.620	5.700	Open Manhole	1200		OUTFALL		F1.006	28.920	150	

GTA Civils Ltd		Page 1
66a Church Walk Burgess Hill West Sussex RH15 9AS	PHASE 1A HOPLANDS FARM, HERSDEN NETWORK TO FWMH1401	
Date 03/09/2018 11:50 File 7178 FW NETWORK TO 1401.mdx	Designed by DMS Checked by	
Micro Drainage	Network 2018.1	

FOUL SEWERAGE DESIGN














Design Criteria for Foul - Main

Pipe Sizes STANDARD Manhole Sizes STANDARD

Industrial Flow (l/s/ha)	0.00	Domestic (l/s/ha)	0.00	Maximum Backdrop Height (m)	1.500
Industrial Peak Flow Factor	0.00	Domestic Peak Flow Factor	6.00	Min Design Depth for Optimisation (m)	1.200
Flow Per Person (l/per/day)	222.00	Add Flow / Climate Change (%)	0	Min Vel for Auto Design only (m/s)	0.75
Persons per House	3.00	Minimum Backdrop Height (m)	0.200	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Network Design Table for Foul - Main

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F4.000	18.630	0.233	80.0	0.000	5	0.0	1.500	o	100	Pipe/Conduit	
F4.001	9.030	0.233	38.8	0.000	2	0.0	1.500	o	100	Pipe/Conduit	
F4.002	27.340	0.209	130.8	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
F4.003	18.750	1.340	14.0	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
F4.004	5.670	0.038	149.2	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
F4.005	15.170	0.102	148.7	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
F4.006	97.120	4.220	23.0	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
F5.000	23.120	0.500	46.2	0.000	2	0.0	1.500	o	100	Pipe/Conduit	
F5.001	20.120	0.252	79.8	0.000	2	0.0	1.500	o	100	Pipe/Conduit	
F5.002	20.850	0.898	23.2	0.000	1	0.0	1.500	o	100	Pipe/Conduit	
F5.003	30.850	0.386	79.9	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
F5.004	80.870	2.424	33.4	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
F4.007	35.320	6.500	5.4	0.000	0	0.0	1.500	o	150	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F4.000	33.285	0.000	0.0	5	0.0	14	0.35	0.74	5.8	0.2
F4.001	33.052	0.000	0.0	7	0.0	14	0.50	1.07	8.4	0.3
F4.002	32.769	0.000	0.0	10	0.0	19	0.35	0.77	13.5	0.5
F4.003	32.560	0.000	0.0	14	0.0	13	0.84	2.35	41.5	0.6
F4.004	31.220	0.000	0.0	15	0.0	24	0.38	0.72	12.7	0.7
F4.005	31.182	0.000	0.0	16	0.0	25	0.39	0.72	12.7	0.7
F4.006	31.080	0.000	0.0	19	0.0	17	0.78	1.83	32.4	0.9
F5.000	31.370	0.000	0.0	2	0.0	8	0.31	0.98	7.7	0.1
F5.001	30.870	0.000	0.0	4	0.0	13	0.33	0.74	5.8	0.2
F5.002	30.618	0.000	0.0	5	0.0	10	0.53	1.39	10.9	0.2
F5.003	29.720	0.000	0.0	5	0.0	14	0.35	0.74	5.8	0.2
F5.004	29.334	0.000	0.0	5	0.0	11	0.47	1.15	9.1	0.2
F4.007	26.860	0.000	0.0	24	0.0	14	1.37	3.77	66.7	1.1

66a Church Walk

PHASE 1A

Burgess Hill

HOPLANDS FARM, HERSDEN

West Sussex RH15 9AS

NETWORK TO FWMH1401

Date 03/09/2018 11:50

Designed by DMS

File 7178 FW NETWORK TO 1401.mdx

Checked by


Micro Drainage

Network 2018.1



Manhole Schedules for Foul - Main

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	Pipe Out		Pipes In			Backdrop (mm)
					PN	Invert Level (m)	Diameter (mm)	PN	Invert Level (m)	
F9	34.700	1.415	Open Manhole	450	F4.000	33.285	100			
F10	34.470	1.418	Open Manhole	450	F4.001	33.052	100	F4.000	33.052	100
F11	34.315	1.546	Open Manhole	450	F4.002	32.769	150	F4.001	32.819	100
F12	33.960	1.400	Open Manhole	450	F4.003	32.560	150	F4.002	32.560	150
F13	33.485	2.265	Open Manhole	1200	F4.004	31.220	150	F4.003	31.220	150
F13A	33.300	2.118	Open Manhole	1200	F4.005	31.182	150	F4.004	31.182	150
F14	33.565	2.485	Open Manhole	1200	F4.006	31.080	150	F4.005	31.080	150
F15	32.570	1.200	Open Manhole	450	F5.000	31.370	100			
F16	32.070	1.200	Open Manhole	450	F5.001	30.870	100	F5.000	30.870	100
F17	32.350	1.732	Open Manhole	450	F5.002	30.618	100	F5.001	30.618	100
F18	32.000	2.280	Open Manhole	1200	F5.003	29.720	100	F5.002	29.720	100
F19	31.000	1.666	Open Manhole	1200	F5.004	29.334	100	F5.003	29.334	100
F13	28.250	1.390	Open Manhole	1200	F4.007	26.860	150	F4.006	26.860	150
								F5.004	26.910	100
F	0.000		Open Manhole	0		OUTFALL		F4.007	20.360	150

GTA Civils Ltd		Page 1
66a Church Walk Burgess Hill West Sussex RH15 9AS	PHASE 1A HOPLANDS FARM, HERSDEN NETWORK TO FWMH1501	
Date 28.08.18 File 7178 FW NETWORK TO 1501.mdx	Designed by DMS Checked by	
Micro Drainage	Network 2015.1	

FOUL SEWERAGE DESIGN

























Design Criteria for Foul - Main

Pipe Sizes STANDARD Manhole Sizes STANDARD

Industrial Flow (l/s/ha)	0.00	Domestic (l/s/ha)	0.00	Maximum Backdrop Height (m)	2.000
Industrial Peak Flow Factor	0.00	Domestic Peak Flow Factor	6.00	Min Design Depth for Optimisation (m)	1.200
Flow Per Person (l/per/day)	222.00	Add Flow / Climate Change (%)	0	Min Vel for Auto Design only (m/s)	0.75
Persons per House	3.00	Minimum Backdrop Height (m)	0.200	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits





















Network Design Table for Foul - Main

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
F6.000	10.750	0.135	79.6	0.000	2	0.0	1.500	o	100	
F6.001	22.450	0.280	80.2	0.000	2	0.0	1.500	o	100	
F6.002	18.320	0.230	79.7	0.000	1	0.0	1.500	o	100	
F6.003	22.640	0.285	79.4	0.000	2	0.0	1.500	o	100	
F6.004	8.870	0.408	21.7	0.000	1	0.0	1.500	o	100	
F7.000	16.340	0.205	79.7	0.000	3	0.0	1.500	o	100	
F7.001	7.090	0.089	79.7	0.000	1	0.0	1.500	o	100	
F7.002	5.730	0.072	79.6	0.000	1	0.0	1.500	o	100	
F7.003	7.860	0.902	8.7	0.000	0	0.0	1.500	o	100	
F6.005	24.790	0.166	149.3	0.000	2	0.0	1.500	o	150	
F6.006	17.970	0.120	149.8	0.000	5	0.0	1.500	o	150	
F6.007	36.450	0.243	150.0	0.000	2	0.0	1.500	o	150	
F8.000	12.550	0.160	78.4	0.000	2	0.0	1.500	o	100	
F8.001	18.770	1.647	11.4	0.000	2	0.0	1.500	o	100	
F6.008	16.860	0.113	149.2	0.000	0	0.0	1.500	o	150	
F6.009	17.750	0.119	149.2	0.000	1	0.0	1.500	o	150	
F6.010	16.350	0.109	150.0	0.000	2	0.0	1.500	o	150	
F6.011	17.380	0.116	149.8	0.000	2	0.0	1.500	o	150	
F9.000	18.870	1.689	11.2	0.000	5	0.0	1.500	o	100	
F6.012	54.910	0.367	149.6	0.000	2	0.0	1.500	o	150	
F6.013	51.850	0.346	149.9	0.000	2	0.0	1.500	o	150	
F10.000	10.020	0.315	31.8	0.000	3	0.0	1.500	o	100	
F10.001	9.940	0.135	73.6	0.000	0	0.0	1.500	o	100	
F10.002	14.230	0.375	37.9	0.000	2	0.0	1.500	o	100	

Network Results Table

PN	US/IL (m)	E Area (ha)	E Base Flow (l/s)	E Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F6.000	33.370	0.000	0.0	2	0.0	9	0.26	0.75	5.9	0.1
F6.001	33.235	0.000	0.0	4	0.0	13	0.33	0.74	5.8	0.2
F6.002	32.955	0.000	0.0	5	0.0	14	0.35	0.75	5.9	0.2
F6.003	32.725	0.000	0.0	7	0.0	16	0.39	0.75	5.9	0.3
F6.004	32.440	0.000	0.0	8	0.0	13	0.64	1.43	11.2	0.4
F7.000	33.300	0.000	0.0	3	0.0	11	0.30	0.75	5.9	0.1
F7.001	33.095	0.000	0.0	4	0.0	13	0.33	0.75	5.9	0.2
F7.002	33.006	0.000	0.0	5	0.0	14	0.35	0.75	5.9	0.2
F7.003	32.934	0.000	0.0	5	0.0	8	0.75	2.26	17.8	0.2
F6.005	31.982	0.000	0.0	15	0.0	24	0.38	0.72	12.6	0.7
F6.006	31.816	0.000	0.0	20	0.0	28	0.41	0.71	12.6	0.9
F6.007	31.696	0.000	0.0	22	0.0	29	0.42	0.71	12.6	1.0
F8.000	33.310	0.000	0.0	2	0.0	9	0.26	0.75	5.9	0.1
F8.001	33.150	0.000	0.0	4	0.0	8	0.63	1.98	15.5	0.2
F6.008	31.453	0.000	0.0	26	0.0	31	0.45	0.72	12.7	1.2
F6.009	31.340	0.000	0.0	27	0.0	32	0.45	0.72	12.7	1.2
F6.010	31.221	0.000	0.0	29	0.0	33	0.46	0.71	12.6	1.3
F6.011	31.112	0.000	0.0	31	0.0	34	0.47	0.71	12.6	1.4
F9.000	32.735	0.000	0.0	5	0.0	9	0.69	2.00	15.7	0.2
F6.012	30.996	0.000	0.0	38	0.0	38	0.50	0.72	12.6	1.8
F6.013	30.629	0.000	0.0	40	0.0	39	0.51	0.71	12.6	1.9
F10.000	32.605	0.000	0.0	3	0.0	9	0.41	1.18	9.3	0.1
F10.001	32.290	0.000	0.0	3	0.0	11	0.31	0.78	6.1	0.1
F10.002	32.155	0.000	0.0	5	0.0	12	0.45	1.08	8.5	0.2

Network Design Table for Foul - Main

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
F6.014	23.950	0.160	149.7	0.000	1	0.0	1.500	o	150	
F6.015	52.300	1.964	26.6	0.000	3	0.0	1.500	o	150	
F11.000	20.280	0.533	38.0	0.000	3	0.0	1.500	o	100	
F11.001	21.550	0.270	79.8	0.000	2	0.0	1.500	o	100	
F12.000	45.510	0.728	62.5	0.000	4	0.0	1.500	o	100	
F11.002	10.170	0.128	79.5	0.000	0	0.0	1.500	o	100	
F11.003	44.480	0.556	80.0	0.000	0	0.0	1.500	o	100	
F11.004	38.880	0.616	63.1	0.000	1	0.0	1.500	o	150	
F11.005	26.230	0.331	79.2	0.000	1	0.0	1.500	o	150	
F11.006	20.110	0.135	149.0	0.000	2	0.0	1.500	o	150	
F11.007	23.930	0.160	149.6	0.000	3	0.0	1.500	o	150	
F11.008	18.880	0.126	149.8	0.000	3	0.0	1.500	o	150	
F11.009	34.760	0.990	35.1	0.000	1	0.0	1.500	o	150	
F13.000	26.320	0.329	80.0	0.000	3	0.0	1.500	o	100	
F13.001	37.470	0.675	55.5	0.000	1	0.0	1.500	o	100	
F13.002	22.250	0.279	79.7	0.000	2	0.0	1.500	o	100	
F13.003	9.260	0.116	79.8	0.000	1	0.0	1.500	o	100	
F11.010	18.130	0.121	149.8	0.000	0	0.0	1.500	o	150	
F11.011	52.440	0.350	149.8	0.000	3	0.0	1.500	o	150	
F6.016	20.810	0.549	37.9	0.000	0	0.0	1.500	o	150	

Network Results Table

PN	US/IL (m)	E Area (ha)	E Base Flow (l/s)	E Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F6.014	30.283	0.000	0.0	46	0.0	42	0.53	0.71	12.6	2.1
F6.015	30.123	0.000	0.0	49	0.0	28	0.99	1.70	30.1	2.3
F11.000	32.525	0.000	0.0	3	0.0	9	0.38	1.08	8.5	0.1
F11.001	31.992	0.000	0.0	5	0.0	14	0.35	0.74	5.8	0.2
F12.000	32.450	0.000	0.0	4	0.0	12	0.36	0.84	6.6	0.2
F11.002	31.722	0.000	0.0	9	0.0	18	0.42	0.75	5.9	0.4
F11.003	31.594	0.000	0.0	9	0.0	18	0.42	0.74	5.8	0.4
F11.004	30.988	0.000	0.0	10	0.0	16	0.45	1.10	19.5	0.5
F11.005	30.372	0.000	0.0	11	0.0	18	0.43	0.98	17.4	0.5
F11.006	30.041	0.000	0.0	13	0.0	22	0.36	0.72	12.7	0.6
F11.007	29.906	0.000	0.0	16	0.0	25	0.38	0.72	12.6	0.7
F11.008	29.746	0.000	0.0	19	0.0	27	0.41	0.71	12.6	0.9
F11.009	29.620	0.000	0.0	20	0.0	20	0.68	1.48	26.2	0.9
F13.000	30.079	0.000	0.0	3	0.0	11	0.30	0.74	5.8	0.1
F13.001	29.750	0.000	0.0	4	0.0	11	0.37	0.89	7.0	0.2
F13.002	29.075	0.000	0.0	6	0.0	15	0.37	0.75	5.9	0.3
F13.003	28.796	0.000	0.0	7	0.0	16	0.39	0.74	5.8	0.3
F11.010	28.630	0.000	0.0	27	0.0	32	0.45	0.71	12.6	1.2
F11.011	28.509	0.000	0.0	30	0.0	34	0.47	0.71	12.6	1.4
F6.016	28.159	0.000	0.0	79	0.0	39	1.01	1.43	25.2	3.7

66a Church Walk
Burgess Hill
West Sussex RH15 9AS

PHASE 1A
HOPLANDS FARM, HERSDEN
NETWORK TO FWMH1501

Date 28.08.18
File 7178 FW NETWORK TO 1501.mdx

Designed by DMS
Checked by




Micro Drainage

Network 2015.1

Manhole Schedules for Foul - Main

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
F21	34.620	1.250	Open Manhole	450	F6.000	33.370	100				
F22	34.400	1.165	Open Manhole	450	F6.001	33.235	100	F6.000	33.235	100	
F23	34.550	1.595	Open Manhole	450	F6.002	32.955	100	F6.001	32.955	100	
F23A	34.525	1.800	Open Manhole	450	F6.003	32.725	100	F6.002	32.725	100	
F24	34.210	1.770	Open Manhole	450	F6.004	32.440	100	F6.003	32.440	100	
F25	34.150	0.850	Open Manhole	450	F7.000	33.300	100				
F25A	34.150	1.055	Open Manhole	450	F7.001	33.095	100	F7.000	33.095	100	
F25B	33.950	0.944	Open Manhole	450	F7.002	33.006	100	F7.001	33.006	100	
F26	34.005	1.071	Open Manhole	450	F7.003	32.934	100	F7.002	32.934	100	
F27	34.090	2.108	Open Manhole	450	F6.005	31.982	150	F6.004	32.032	100	
								F7.003	32.032	100	
F28	34.400	2.584	Open Manhole	1200	F6.006	31.816	150	F6.005	31.816	150	
F28A	34.630	2.934	Open Manhole	1200	F6.007	31.696	150	F6.006	31.696	150	
F29	34.730	1.420	Open Manhole	450	F8.000	33.310	100				
F30	34.550	1.400	Open Manhole	450	F8.001	33.150	100	F8.000	33.150	100	
F31	34.320	2.867	Open Manhole	1200	F6.008	31.453	150	F6.007	31.453	150	
								F8.001	31.503	100	
F32	34.240	2.900	Open Manhole	1200	F6.009	31.340	150	F6.008	31.340	150	
F33	34.450	3.229	Open Manhole	1200	F6.010	31.221	150	F6.009	31.221	150	
F34	34.550	3.438	Open Manhole	1200	F6.011	31.112	150	F6.010	31.112	150	
F35A	34.175	1.440	Open Manhole	450	F9.000	32.735	100				
F35	34.400	3.404	Open Manhole	1200	F6.012	30.996	150	F6.011	30.996	150	
								F9.000	31.046	100	
F36	33.105	2.476	Open Manhole	1200	F6.013	30.629	150	F6.012	30.629	150	
F37	33.900	1.295	Open Manhole	450	F10.000	32.605	100				
F38	32.290	0.000	Open Manhole	450	F10.001	32.290	100	F10.000	32.290	100	
F39	33.505	1.350	Open Manhole	450	F10.002	32.155	100	F10.001	32.155	100	
F40	33.260	2.977	Open Manhole	1200	F6.014	30.283	150	F6.013	30.283	150	
								F10.002	31.780	100	1447
F41	32.660	2.537	Open Manhole	1200	F6.015	30.123	150	F6.014	30.123	150	
F42	33.925	1.400	Open Manhole	450	F11.000	32.525	100				
F43	33.750	1.758	Open Manhole	450	F11.001	31.992	100	F11.000	31.992	100	
F44	33.800	1.350	Open Manhole	450	F12.000	32.450	100				
F45	33.505	1.783	Open Manhole	450	F11.002	31.722	100	F11.001	31.722	100	
								F12.000	31.722	100	
F46	33.655	2.061	Open Manhole	450	F11.003	31.594	100	F11.002	31.594	100	
F47	32.600	1.612	Open Manhole	450	F11.004	30.988	150	F11.003	31.038	100	
F48	31.500	1.128	Open Manhole	450	F11.005	30.372	150	F11.004	30.372	150	
F49	31.975	1.934	Open Manhole	1200	F11.006	30.041	150	F11.005	30.041	150	
F50	32.125	2.219	Open Manhole	1200	F11.007	29.906	150	F11.006	29.906	150	
F51	32.370	2.624	Open Manhole	1200	F11.008	29.746	150	F11.007	29.746	150	
F52	31.790	2.170	Open Manhole	1200	F11.009	29.620	150	F11.008	29.620	150	
F53	31.200	1.121	Open Manhole	450	F13.000	30.079	100				
F54	30.800	1.050	Open Manhole	450	F13.001	29.750	100	F13.000	29.750	100	
F55	30.425	1.350	Open Manhole	450	F13.002	29.075	100	F13.001	29.075	100	
F56	30.530	1.734	Open Manhole	450	F13.003	28.796	100	F13.002	28.796	100	
F57	30.650	2.020	Open Manhole	1200	F11.010	28.630	150	F11.009	28.630	150	
								F13.003	28.680	100	
F43	30.735	2.226	Open Manhole	1200	F11.011	28.509	150	F11.010	28.509	150	
F44	30.600	2.441	Open Manhole	1200	F6.016	28.159	150	F6.015	28.159	150	
								F11.011	28.159	150	
F1501	30.640	3.030	Open Manhole	1200		OUTFALL		F6.016	27.610	150	

GTA Civils Ltd		Page 1
66a Church Walk Burgess Hill West Sussex RH15 9AS	PHASE 1B HOPLANDS FARM, HERSDEN NETWORK TO FWMH5803	
Date 28.08.18 File 7178 FW NETWORK PH1B.mdx	Designed by DMS Checked by	
Micro Drainage	Network 2015.1	

FOUL SEWERAGE DESIGN












Design Criteria for Foul - Main

Pipe Sizes STANDARD Manhole Sizes STANDARD

Industrial Flow (l/s/ha)	0.00	Domestic (l/s/ha)	0.00	Maximum Backdrop Height (m)	2.000
Industrial Peak Flow Factor	0.00	Domestic Peak Flow Factor	6.00	Min Design Depth for Optimisation (m)	1.200
Flow Per Person (l/per/day)	222.00	Add Flow / Climate Change (%)	0	Min Vel for Auto Design only (m/s)	0.75
Persons per House	3.00	Minimum Backdrop Height (m)	0.200	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Network Design Table for Foul - Main

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
F14.000	36.180	0.453	79.9	0.000	5	0.0	1.500	o	100	
F14.001	36.150	0.397	91.1	0.000	6	0.0	1.500	o	150	
F14.002	14.340	1.065	13.5	0.000	0	0.0	1.500	o	150	
F14.003	25.060	0.168	149.2	0.000	10	0.0	1.500	o	150	
F14.004	35.940	0.240	149.8	0.000	6	0.0	1.500	o	150	
F15.000	24.620	0.308	79.9	0.000	5	0.0	1.500	o	100	
F15.001	23.330	0.292	79.9	0.000	1	0.0	1.500	o	100	
F15.002	11.300	0.142	79.6	0.000	1	0.0	1.500	o	100	
F15.003	16.510	0.207	79.8	0.000	2	0.0	1.500	o	100	
F14.005	15.480	0.104	148.8	0.000	0	0.0	1.500	o	150	
F14.006	31.150	2.278	13.7	0.000	2	0.0	1.500	o	150	

Network Results Table

PN	US/IL (m)	E Area (ha)	E Base Flow (l/s)	E Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F14.000	29.400	0.000	0.0	5	0.0	14	0.35	0.74	5.8	0.2
F14.001	28.897	0.000	0.0	11	0.0	18	0.41	0.92	16.2	0.5
F14.002	28.500	0.000	0.0	11	0.0	12	0.79	2.40	42.3	0.5
F14.003	27.435	0.000	0.0	21	0.0	28	0.42	0.72	12.7	1.0
F14.004	27.267	0.000	0.0	27	0.0	32	0.45	0.71	12.6	1.2
F15.000	29.845	0.000	0.0	5	0.0	14	0.35	0.74	5.8	0.2
F15.001	29.537	0.000	0.0	6	0.0	15	0.37	0.74	5.8	0.3
F15.002	29.245	0.000	0.0	7	0.0	16	0.39	0.75	5.9	0.3
F15.003	29.103	0.000	0.0	9	0.0	18	0.42	0.75	5.9	0.4
F14.005	27.027	0.000	0.0	36	0.0	37	0.49	0.72	12.7	1.7
F14.006	26.923	0.000	0.0	38	0.0	21	1.15	2.38	42.0	1.8

66a Church Walk
 Burgess Hill
 West Sussex RH15 9AS

PHASE 1B
 HOPLANDS FARM, HERSDEN
 NETWORK TO FWMH5803

Date 28.08.18
 File 7178 FW NETWORK PH1B.mdx

Designed by DMS
 Checked by



Micro Drainage

Network 2015.1

Manhole Schedules for Foul - Main

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
F60	30.750	1.350	Open Manhole	450	F14.000	29.400	100				
F61	30.400	1.503	Open Manhole	450	F14.001	28.897	150	F14.000	28.947	100	
F62	29.900	1.400	Open Manhole	450	F14.002	28.500	150	F14.001	28.500	150	
F63	30.060	2.625	Open Manhole	1200	F14.003	27.435	150	F14.002	27.435	150	
F64	30.400	3.133	Open Manhole	1200	F14.004	27.267	150	F14.003	27.267	150	
F65	31.195	1.350	Open Manhole	450	F15.000	29.845	100				
F66	31.250	1.713	Open Manhole	450	F15.001	29.537	100	F15.000	29.537	100	
F67	30.950	1.705	Open Manhole	450	F15.002	29.245	100	F15.001	29.245	100	
F68	30.810	1.707	Open Manhole	450	F15.003	29.103	100	F15.002	29.103	100	
F69	30.510	3.483	Open Manhole	1200	F14.005	27.027	150	F14.004	27.027	150	
								F15.003	28.896	100	1819
F11	30.310	3.387	Open Manhole	1200	F14.006	26.923	150	F14.005	26.923	150	
F71	29.600	4.955	Open Manhole	1200		OUTFALL		F14.006	24.645	150	