

RSK LDE		Page 1
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Surface Network 1

Pipe Sizes STANDARD Manhole Sizes STANDARD

FEH Rainfall Model

Return Period (years)	100
FEH Rainfall Version	1999
Site Location GB 497500 102350 SU 97500 02350	
C (1km)	-0.025
D1 (1km)	0.390
D2 (1km)	0.245
D3 (1km)	0.403
E (1km)	0.310
F (1km)	2.321
Maximum Rainfall (mm/hr)	50
Maximum Time of Concentration (mins)	30
Foul Sewage (l/s/ha)	0.000
Volumetric Runoff Coeff.	0.750
PIMP (%)	100
Add Flow / Climate Change (%)	40
Minimum Backdrop Height (m)	0.200
Maximum Backdrop Height (m)	1.500
Min Design Depth for Optimisation (m)	1.200
Min Vel for Auto Design only (m/s)	1.00
Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Time Area Diagram for Surface Network 1

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.018	8-12	0.495	16-20	0.768	24-28	0.793	32-36	0.015	40-44	0.017
4-8	0.283	12-16	0.718	20-24	0.555	28-32	0.199	36-40	0.000	44-48	0.021

Total Area Contributing (ha) = 3.882

Total Pipe Volume (m³) = 168.894

Network Design Table for Surface Network 1

« - Indicates pipe capacity < flow

PN Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
------------------	-------------	----------------	----------------	----------------	--------------------	-----------	-------------	-------------	--------------	----------------

Network Results Table

©1982-2020 Innovyze

RSK LDE		Page 2																								
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data																									
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by																									
XP Solutions Network 2020.1.3																										
<u>Network Design Table for Surface Network 1</u> <table><tr><th>PN</th><th>Rain</th><th>T.C.</th><th>US/IL</th><th>Σ I</th><th>Area</th><th>Σ Base</th><th>Foul</th><th>Add Flow</th><th>Vel</th><th>Cap</th><th>Flow</th></tr><tr><th></th><th>(mm/hr)</th><th>(mins)</th><th>(m)</th><th></th><th>(ha)</th><th>Flow (l/s)</th><th>(l/s)</th><th>(l/s)</th><th>(m/s)</th><th>(l/s)</th><th>(l/s)</th></tr></table>			PN	Rain	T.C.	US/IL	Σ I	Area	Σ Base	Foul	Add Flow	Vel	Cap	Flow		(mm/hr)	(mins)	(m)		(ha)	Flow (l/s)	(l/s)	(l/s)	(m/s)	(l/s)	(l/s)
PN	Rain	T.C.	US/IL	Σ I	Area	Σ Base	Foul	Add Flow	Vel	Cap	Flow															
	(mm/hr)	(mins)	(m)		(ha)	Flow (l/s)	(l/s)	(l/s)	(m/s)	(l/s)	(l/s)															
©1982-2020 Innovyze																										

RSK LDE										Page 3		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data							
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by							
XP Solutions					Network 2020.1.3							
<u>Network Design Table for Surface Network 1</u>												
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design	
1.000	79.638	0.000	0.0	0.038	5.00	0.0	0.600	o	150	Pipe/Conduit		
1.001	3.896	0.050	77.9	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
1.002	31.170	0.240	129.9	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
1.003	7.034	0.070	100.5	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
1.004	34.423	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		
2.000	48.100	0.370	130.0	0.028	5.00	0.0	0.600	o	150	Pipe/Conduit		
2.001	7.174	0.050	143.5	0.009	0.00	0.0	0.600	o	150	Pipe/Conduit		
2.002	9.200	0.075	122.7	0.012	0.00	0.0	0.600	o	150	Pipe/Conduit		
2.003	32.873	0.270	121.8	0.037	0.00	0.0	0.600	o	150	Pipe/Conduit		
2.004	2.949	0.040	73.7	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
2.005	2.131	0.010	213.1	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
1.005	49.746	0.100	497.5	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		
3.000	14.970	0.125	119.8	0.014	5.00	0.0	0.600	o	150	Pipe/Conduit		
4.000	5.293	0.045	117.6	0.014	5.00	0.0	0.600	o	150	Pipe/Conduit		
3.001	7.158	0.060	119.3	0.029	0.00	0.0	0.600	o	150	Pipe/Conduit		
3.002	5.040	0.080	63.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
3.003	4.332	0.040	108.3	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
<u>Network Results Table</u>												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
1.000	50.00	19.32	5.600	0.038	0.0	0.0	2.1	0.09	1.6«	7.2		
1.001	50.00	19.38	6.200	0.038	0.0	0.0	2.1	1.14	20.1	7.2		
1.002	50.00	19.97	6.150	0.038	0.0	0.0	2.1	0.88	15.6	7.2		
1.003	50.00	20.08	5.910	0.038	0.0	0.0	2.1	1.00	17.7	7.2		
1.004	50.00	23.94	5.250	0.038	0.0	0.0	2.1	0.15	10.5	7.2		
2.000	50.00	5.91	6.325	0.028	0.0	0.0	1.5	0.88	15.5	5.3		
2.001	50.00	6.05	5.955	0.037	0.0	0.0	2.0	0.84	14.8	7.0		
2.002	50.00	6.22	5.905	0.049	0.0	0.0	2.7	0.91	16.0	9.3		
2.003	50.00	6.83	5.830	0.086	0.0	0.0	4.7	0.91	16.1«	16.3		
2.004	50.00	6.87	5.560	0.086	0.0	0.0	4.7	1.17	20.7	16.3		
2.005	50.00	6.92	5.520	0.086	0.0	0.0	4.7	0.68	12.1«	16.3		
1.005	50.00	25.12	5.250	0.124	0.0	0.0	6.7	0.70	49.4	23.5		
3.000	50.00	5.27	6.005	0.014	0.0	0.0	0.8	0.92	16.2	2.7		
4.000	50.00	5.10	5.925	0.014	0.0	0.0	0.8	0.93	16.4	2.7		
3.001	50.00	5.40	5.880	0.057	0.0	0.0	3.1	0.92	16.2	10.8		
3.002	50.00	5.47	5.820	0.057	0.0	0.0	3.1	1.27	22.4	10.8		
3.003	50.00	5.54	5.740	0.057	0.0	0.0	3.1	0.97	17.1	10.8		
©1982-2020 Innovyze												

RSK LDE										Page 4	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by						
XP Solutions					Network 2020.1.3						
<u>Network Design Table for Surface Network 1</u>											
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
3.004	23.754	0.000	0.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
3.005	11.849	0.090	131.7	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
3.006	7.279	0.050	145.6	0.016	0.00	0.0	0.600	o	150	Pipe/Conduit	
5.000	14.965	0.125	119.7	0.021	5.00	0.0	0.600	o	150	Pipe/Conduit	
3.007	13.786	0.095	145.1	0.033	0.00	0.0	0.600	o	150	Pipe/Conduit	
3.008	9.626	0.297	32.4	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
6.000	3.524	0.000	0.0	0.026	5.00	0.0	0.600	o	150	Pipe/Conduit	
6.001	3.983	0.000	0.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
6.002	24.147	0.112	215.6	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
7.000	7.481	0.271	27.6	0.059	5.00	0.0	0.600	o	150	Pipe/Conduit	
3.009	6.683	0.023	290.6	0.017	0.00	0.0	0.600	o	300	Pipe/Conduit	
3.010	8.363	0.028	298.7	0.018	0.00	0.0	0.600	o	300	Pipe/Conduit	
3.011	29.488	0.100	294.9	0.055	0.00	0.0	0.600	o	300	Pipe/Conduit	
3.012	18.288	0.062	295.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
8.000	12.139	0.087	139.5	0.071	5.00	0.0	0.600	o	150	Pipe/Conduit	
<u>Network Results Table</u>											
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
3.004	50.00	9.81	5.700	0.057	0.0	0.0	3.1	0.09	1.6«	10.8	
3.005	50.00	10.04	6.115	0.057	0.0	0.0	3.1	0.87	15.4	10.8	
3.006	50.00	10.19	6.025	0.073	0.0	0.0	4.0	0.83	14.7	13.8	
5.000	50.00	5.27	6.100	0.021	0.0	0.0	1.1	0.92	16.2	4.0	
3.007	50.00	10.46	5.975	0.127	0.0	0.0	6.9	0.83	14.7«	24.1	
3.008	50.00	10.55	5.880	0.127	0.0	0.0	6.9	1.77	31.4	24.1	
6.000	50.00	5.63	5.620	0.026	0.0	0.0	1.4	0.09	1.6«	4.9	
6.001	50.00	6.35	5.620	0.026	0.0	0.0	1.4	0.09	1.6«	4.9	
6.002	50.00	6.80	5.620	0.026	0.0	0.0	1.4	0.89	35.2	4.9	
7.000	50.00	5.06	5.854	0.059	0.0	0.0	3.2	1.92	34.0	11.2	
3.009	50.00	10.67	5.433	0.229	0.0	0.0	12.4	0.92	64.8	43.4	
3.010	50.00	10.83	5.410	0.247	0.0	0.0	13.4	0.90	63.9	46.8	
3.011	50.00	11.37	5.382	0.302	0.0	0.0	16.4	0.91	64.4	57.3	
3.012	50.00	11.70	5.282	0.302	0.0	0.0	16.4	0.91	64.3	57.3	
8.000	50.00	5.24	5.457	0.071	0.0	0.0	3.8	0.85	15.0	13.5	
©1982-2020 Innovyze											

RSK LDE										Page 5	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by						
XP Solutions					Network 2020.1.3						
Network Design Table for Surface Network 1											
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
3.013	8.479	0.040	212.0	0.027	0.00	0.0	0.600	o	300	Pipe/Conduit	
3.014	4.885	0.030	162.8	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.006	65.460	0.030	2182.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
9.000	22.407	0.170	131.8	0.026	5.00	0.0	0.600	o	150	Pipe/Conduit	
10.000	8.117	0.060	135.3	0.056	5.00	0.0	0.600	o	150	Pipe/Conduit	
9.001	2.047	0.020	102.4	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.007	11.501	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.008	2.310	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.009	15.488	0.160	96.8	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.010	13.870	0.110	126.1	0.015	0.00	0.0	0.600	o	150	Pipe/Conduit	
11.000	19.391	0.150	129.3	0.014	5.00	0.0	0.600	o	150	Pipe/Conduit	
11.001	12.727	0.100	127.3	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
11.002	21.907	0.120	182.6	0.029	0.00	0.0	0.600	o	150	Pipe/Conduit	
11.003	6.116	0.070	87.4	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
11.004	20.997	0.350	60.0	0.013	0.00	0.0	0.600	o	150	Pipe/Conduit	
Network Results Table											
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
3.013	50.00	11.83	5.220	0.400	0.0	0.0	21.7	1.08	76.1	75.8	
3.014	50.00	11.90	5.180	0.400	0.0	0.0	21.7	1.23	86.9	75.8	
1.006	50.00	28.45	5.150	0.524	0.0	0.0	28.4	0.33	23.2«	99.3	
9.000	50.00	5.43	5.460	0.026	0.0	0.0	1.4	0.87	15.4	4.9	
10.000	50.00	5.16	5.350	0.056	0.0	0.0	3.0	0.86	15.2	10.6	
9.001	50.00	5.46	5.290	0.082	0.0	0.0	4.4	0.99	17.5	15.5	
1.007	50.00	29.74	5.120	0.606	0.0	0.0	32.8	0.15	10.5«	114.9	
1.008	50.00	30.00	5.120	0.606	0.0	0.0	32.8	0.15	10.5«	114.9	
1.009	50.00	30.00	5.120	0.606	0.0	0.0	32.8	1.02	18.1«	114.9	
1.010	50.00	30.00	4.960	0.621	0.0	0.0	33.6	0.89	15.8«	117.7	
11.000	50.00	5.37	6.050	0.014	0.0	0.0	0.8	0.88	15.6	2.7	
11.001	50.00	5.60	5.900	0.014	0.0	0.0	0.8	0.89	15.7	2.7	
11.002	50.00	6.10	5.800	0.043	0.0	0.0	2.3	0.74	13.1	8.2	
11.003	50.00	6.19	5.680	0.043	0.0	0.0	2.3	1.08	19.0	8.2	
11.004	50.00	6.46	5.610	0.056	0.0	0.0	3.0	1.30	23.0	10.6	
©1982-2020 Innovyze											

RSK LDE										Page 6	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by						
XP Solutions					Network 2020.1.3						
<u>Network Design Table for Surface Network 1</u>											
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
12.000	19.092	0.140	136.4	0.026	5.00	0.0	0.600	o	150	Pipe/Conduit	
12.001	13.607	0.100	136.1	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
11.005	11.443	0.110	104.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
11.006	20.944	0.150	139.6	0.035	0.00	0.0	0.600	o	150	Pipe/Conduit	
11.007	27.264	0.050	545.3	0.035	0.00	0.0	0.600	o	150	Pipe/Conduit	
11.008	8.359	0.050	167.2	0.016	0.00	0.0	0.600	o	150	Pipe/Conduit	
11.009	8.609	0.050	172.2	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.011	5.898	0.050	118.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.012	17.211	0.086	200.1	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.013	9.176	0.046	199.5	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
13.000	24.977	0.190	131.5	0.022	5.00	0.0	0.600	o	150	Pipe/Conduit	
13.001	5.196	0.000	0.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.014	33.907	0.126	269.1	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.015	27.240	0.190	143.4	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.016	12.467	0.102	122.2	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
14.000	33.124	0.325	101.9	0.047	5.00	0.0	0.600	o	150	Pipe/Conduit	
14.001	12.825	0.140	91.6	0.014	0.00	0.0	0.600	o	150	Pipe/Conduit	
<u>Network Results Table</u>											
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul Flow (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
12.000	50.00	5.37	5.500	0.026	0.0	0.0	1.4	0.86	15.2	4.9	
12.001	50.00	5.63	5.360	0.026	0.0	0.0	1.4	0.86	15.2	4.9	
11.005	50.00	6.66	5.260	0.082	0.0	0.0	4.4	0.98	17.4	15.5	
11.006	50.00	7.07	5.150	0.117	0.0	0.0	6.3	0.85	15.0«	22.2	
11.007	50.00	8.14	5.000	0.152	0.0	0.0	8.2	0.42	7.5«	28.8	
11.008	50.00	8.32	4.950	0.168	0.0	0.0	9.1	0.77	13.7«	31.8	
11.009	50.00	8.51	4.900	0.168	0.0	0.0	9.1	0.76	13.5«	31.8	
1.011	50.00	30.00	4.850	0.789	0.0	0.0	42.7	0.92	16.3«	149.6	
1.012	50.00	30.00	4.800	0.789	0.0	0.0	42.7	0.92	36.6«	149.6	
1.013	50.00	30.00	4.714	0.789	0.0	0.0	42.7	0.92	36.7«	149.6	
13.000	50.00	5.48	5.250	0.022	0.0	0.0	1.2	0.87	15.5	4.2	
13.001	50.00	6.41	5.060	0.022	0.0	0.0	1.2	0.09	1.6«	4.2	
1.014	50.00	30.00	4.668	0.811	0.0	0.0	43.9	0.79	31.5«	153.7	
1.015	50.00	30.00	4.542	0.811	0.0	0.0	43.9	1.09	43.3«	153.7	
1.016	50.00	30.00	4.352	0.811	0.0	0.0	43.9	1.18	47.0«	153.7	
14.000	50.00	5.55	5.115	0.047	0.0	0.0	2.5	1.00	17.6	8.9	
14.001	50.00	5.76	4.790	0.061	0.0	0.0	3.3	1.05	18.6	11.6	
©1982-2020 Innovyze											

RSK LDE										Page 7	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by						
XP Solutions					Network 2020.1.3						
<u>Network Design Table for Surface Network 1</u>											
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
14.002	8.557	0.090	95.1	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
14.003	12.946	0.110	117.7	0.023	0.00	0.0	0.600	o	150	Pipe/Conduit	
14.004	15.042	0.200	75.2	0.024	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.017	46.870	0.050	937.4	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
15.000	60.213	0.475	126.8	0.049	5.00	0.0	0.600	o	150	Pipe/Conduit	
16.000	35.650	0.280	127.3	0.026	5.00	0.0	0.600	o	150	Pipe/Conduit	
15.001	24.212	0.200	121.1	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
15.002	4.054	0.330	12.3	0.033	0.00	0.0	0.600	o	150	Pipe/Conduit	
15.003	37.147	0.290	128.1	0.049	0.00	0.0	0.600	o	300	Pipe/Conduit	
15.004	35.580	0.350	101.7	0.037	0.00	0.0	0.600	o	300	Pipe/Conduit	
17.000	17.686	0.160	110.5	0.022	5.00	0.0	0.600	o	150	Pipe/Conduit	
17.001	8.188	0.260	31.5	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
15.005	26.222	0.100	262.2	0.022	0.00	0.0	0.600	o	300	Pipe/Conduit	
15.006	5.601	0.030	186.7	0.027	0.00	0.0	0.600	o	300	Pipe/Conduit	
15.007	5.773	0.060	96.2	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
<u>Network Results Table</u>											
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul Flow (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
14.002	50.00	5.90	4.650	0.061		0.0	0.0	3.3	1.03	18.2	11.6
14.003	50.00	6.13	4.560	0.084		0.0	0.0	4.5	0.93	16.4	15.9
14.004	50.00	6.35	4.450	0.108		0.0	0.0	5.8	1.16	20.5	20.5
1.017	50.00	30.00	4.250	0.919		0.0	0.0	49.8	0.51	35.7	174.2
15.000	50.00	6.13	6.185	0.049		0.0	0.0	2.7	0.89	15.7	9.3
16.000	50.00	5.67	5.990	0.026		0.0	0.0	1.4	0.89	15.7	4.9
15.001	50.00	6.57	5.710	0.075		0.0	0.0	4.1	0.91	16.1	14.2
15.002	50.00	6.59	5.510	0.108		0.0	0.0	5.8	2.89	51.1	20.5
15.003	50.00	7.04	5.030	0.157		0.0	0.0	8.5	1.39	98.1	29.8
15.004	50.00	7.42	4.740	0.194		0.0	0.0	10.5	1.56	110.2	36.8
17.000	50.00	5.31	4.960	0.022		0.0	0.0	1.2	0.96	16.9	4.2
17.001	50.00	5.38	4.800	0.022		0.0	0.0	1.2	1.80	31.8	4.2
15.005	50.00	7.87	4.390	0.238		0.0	0.0	12.9	0.97	68.3	45.1
15.006	50.00	7.95	4.290	0.265		0.0	0.0	14.4	1.15	81.1	50.2
15.007	50.00	8.01	4.260	0.265		0.0	0.0	14.4	1.60	113.3	50.2
©1982-2020 Innovyze											

RSK LDE										Page 8	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by						
XP Solutions					Network 2020.1.3						
<u>Network Design Table for Surface Network 1</u>											
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
18.000	25.210	0.210	120.0	0.023	5.00	0.0	0.600	o	150	Pipe/Conduit	
19.000	12.463	0.280	44.5	0.023	5.00	0.0	0.600	o	150	Pipe/Conduit	
18.001	9.756	0.080	122.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
18.002	32.780	0.420	78.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.018	6.009	0.050	120.2	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.019	10.456	0.050	209.1	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.020	31.084	0.050	621.7	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.021	34.007	0.215	158.2	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
20.000	13.799	0.067	206.0	0.029	5.00	0.0	0.600	o	225	Pipe/Conduit	
20.001	21.664	0.106	204.4	0.029	0.00	0.0	0.600	o	225	Pipe/Conduit	
21.000	8.199	0.061	134.4	0.028	5.00	0.0	0.600	o	150	Pipe/Conduit	
20.002	14.818	0.055	269.4	0.023	0.00	0.0	0.600	o	300	Pipe/Conduit	
20.003	21.572	0.075	287.6	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
20.004	27.653	0.099	279.3	0.043	0.00	0.0	0.600	o	300	Pipe/Conduit	
20.005	29.912	0.108	277.0	0.009	0.00	0.0	0.600	o	300	Pipe/Conduit	
20.006	10.054	0.045	223.4	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
<u>Network Results Table</u>											
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
18.000	50.00	5.46	5.060	0.023	0.0	0.0	1.2	0.92	16.2	4.4	
19.000	50.00	5.14	5.130	0.023	0.0	0.0	1.2	1.51	26.7	4.4	
18.001	50.00	5.64	4.850	0.046	0.0	0.0	2.5	0.91	16.1	8.7	
18.002	50.00	6.12	4.770	0.046	0.0	0.0	2.5	1.14	20.1	8.7	
1.018	50.00	30.00	4.200	1.230	0.0	0.0	66.6	1.43	101.3	233.2	
1.019	50.00	30.00	4.150	1.230	0.0	0.0	66.6	1.08	76.6	233.2	
1.020	50.00	30.00	4.100	1.230	0.0	0.0	66.6	0.62	44.1	233.2	
1.021	50.00	30.00	4.050	1.230	0.0	0.0	66.6	1.25	88.2	233.2	
20.000	50.00	5.25	5.660	0.029	0.0	0.0	1.6	0.91	36.1	5.5	
20.001	50.00	5.65	5.593	0.058	0.0	0.0	3.1	0.91	36.2	11.0	
21.000	50.00	5.16	5.623	0.028	0.0	0.0	1.5	0.87	15.3	5.3	
20.002	50.00	5.91	5.412	0.109	0.0	0.0	5.9	0.95	67.4	20.7	
20.003	50.00	6.30	5.357	0.109	0.0	0.0	5.9	0.92	65.2	20.7	
20.004	50.00	6.79	5.282	0.152	0.0	0.0	8.2	0.94	66.1	28.8	
20.005	50.00	7.32	5.183	0.161	0.0	0.0	8.7	0.94	66.4	30.5	
20.006	50.00	7.48	5.075	0.161	0.0	0.0	8.7	1.05	74.1	30.5	
©1982-2020 Innovyze											

RSK LDE										Page 9	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by						
XP Solutions					Network 2020.1.3						
<u>Network Design Table for Surface Network 1</u>											
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
20.007	20.595	0.087	236.7	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
20.008	6.292	0.028	224.7	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
22.000	4.298	0.000	0.0	0.064	5.00	0.0	0.600	o	150	Pipe/Conduit	
22.001	13.399	0.160	83.7	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
22.002	23.360	0.116	201.4	0.023	0.00	0.0	0.600	o	225	Pipe/Conduit	
22.003	19.767	0.099	199.7	0.035	0.00	0.0	0.600	o	225	Pipe/Conduit	
22.004	10.130	0.050	202.6	0.049	0.00	0.0	0.600	o	225	Pipe/Conduit	
22.005	21.349	0.105	203.3	0.033	0.00	0.0	0.600	o	225	Pipe/Conduit	
22.006	20.837	0.101	206.3	0.028	0.00	0.0	0.600	o	225	Pipe/Conduit	
23.000	24.483	0.405	60.5	0.020	5.00	0.0	0.600	o	150	Pipe/Conduit	
23.001	3.435	0.231	14.9	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
24.000	8.441	0.681	12.4	0.010	5.00	0.0	0.600	o	150	Pipe/Conduit	
22.007	26.521	0.132	200.9	0.032	0.00	0.0	0.600	o	225	Pipe/Conduit	
22.008	10.259	0.052	197.3	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
22.009	4.237	0.020	211.9	0.063	0.00	0.0	0.600	o	300	Pipe/Conduit	
22.010	3.485	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
20.009	7.791	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
<u>Network Results Table</u>											
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul Flow (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
20.007	50.00	7.82	5.030	0.161	0.0	0.0	8.7	1.02	71.9	30.5	
20.008	50.00	7.92	4.943	0.161	0.0	0.0	8.7	1.04	73.8	30.5	
22.000	50.00	5.77	5.900	0.064	0.0	0.0	3.5	0.09	1.6«	12.1	
22.001	50.00	5.98	5.900	0.064	0.0	0.0	3.5	1.10	19.4	12.1	
22.002	50.00	6.40	5.665	0.087	0.0	0.0	4.7	0.92	36.5	16.5	
22.003	50.00	6.76	5.549	0.122	0.0	0.0	6.6	0.92	36.6	23.1	
22.004	50.00	6.94	5.450	0.171	0.0	0.0	9.3	0.91	36.4	32.4	
22.005	50.00	7.33	5.400	0.204	0.0	0.0	11.0	0.91	36.3«	38.7	
22.006	50.00	7.71	5.295	0.232	0.0	0.0	12.6	0.91	36.0«	44.0	
23.000	50.00	5.31	5.905	0.020	0.0	0.0	1.1	1.30	22.9	3.8	
23.001	50.00	5.34	5.500	0.020	0.0	0.0	1.1	2.63	46.4	3.8	
24.000	50.00	5.05	5.950	0.010	0.0	0.0	0.5	2.88	50.8	1.9	
22.007	50.00	8.20	5.194	0.294	0.0	0.0	15.9	0.92	36.5«	55.7	
22.008	50.00	8.35	4.987	0.294	0.0	0.0	15.9	1.12	78.9	55.7	
22.009	50.00	8.41	4.935	0.357	0.0	0.0	19.3	1.08	76.1	67.7	
22.010	50.00	8.80	4.915	0.357	0.0	0.0	19.3	0.15	10.5«	67.7	
20.009	50.00	9.68	4.915	0.518	0.0	0.0	28.1	0.15	10.5«	98.2	
©1982-2020 Innovyze											

RSK LDE										Page 10	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by						
XP Solutions					Network 2020.1.3						
<u>Network Design Table for Surface Network 1</u>											
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
20.010	24.064	0.165	145.8	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
20.011	11.457	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
25.000	18.358	0.150	122.4	0.019	5.00	0.0	0.600	o	150	Pipe/Conduit	
25.001	23.010	0.190	121.1	0.016	0.00	0.0	0.600	o	150	Pipe/Conduit	
25.002	11.017	0.375	29.4	0.010	0.00	0.0	0.600	o	150	Pipe/Conduit	
25.003	10.252	0.500	20.5	0.007	0.00	0.0	0.600	o	150	Pipe/Conduit	
20.012	25.858	0.110	235.1	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
26.000	17.917	0.050	358.3	0.044	5.00	0.0	0.600	o	150	Pipe/Conduit	
26.001	17.329	0.020	866.5	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
27.000	18.765	0.130	144.3	0.035	5.00	0.0	0.600	o	150	Pipe/Conduit	
26.002	33.286	0.030	1109.5	0.019	0.00	0.0	0.600	o	150	Pipe/Conduit	
26.003	6.308	0.000	0.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
26.004	18.925	0.010	1892.5	0.019	0.00	0.0	0.600	o	150	Pipe/Conduit	
26.005	8.662	0.000	0.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
26.006	18.362	0.020	918.1	0.015	0.00	0.0	0.600	o	150	Pipe/Conduit	
26.007	6.116	0.010	611.6	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
<u>Network Results Table</u>											
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
20.010	50.00	9.99	4.915	0.518	0.0	0.0	28.1	1.30	91.9«	98.2	
20.011	50.00	11.27	4.750	0.518	0.0	0.0	28.1	0.15	10.5«	98.2	
25.000	50.00	5.34	6.215	0.019	0.0	0.0	1.0	0.91	16.0	3.6	
25.001	50.00	5.76	6.065	0.035	0.0	0.0	1.9	0.91	16.1	6.6	
25.002	50.00	5.86	5.875	0.045	0.0	0.0	2.4	1.86	32.9	8.5	
25.003	50.00	5.93	5.500	0.052	0.0	0.0	2.8	2.23	39.5	9.9	
20.012	50.00	11.69	4.750	0.570	0.0	0.0	30.9	1.02	72.2«	108.1	
26.000	50.00	5.57	6.050	0.044	0.0	0.0	2.4	0.53	9.3	8.3	
26.001	50.00	6.43	6.000	0.044	0.0	0.0	2.4	0.33	5.9«	8.3	
27.000	50.00	5.37	6.110	0.035	0.0	0.0	1.9	0.83	14.7	6.6	
26.002	50.00	8.32	5.980	0.098	0.0	0.0	5.3	0.29	5.2«	18.6	
26.003	50.00	9.46	5.950	0.098	0.0	0.0	5.3	0.09	1.6«	18.6	
26.004	50.00	10.87	5.950	0.117	0.0	0.0	6.3	0.22	3.9«	22.2	
26.005	50.00	12.43	5.940	0.117	0.0	0.0	6.3	0.09	1.6«	22.2	
26.006	50.00	13.38	5.940	0.132	0.0	0.0	7.1	0.32	5.7«	25.0	
26.007	50.00	13.63	5.920	0.132	0.0	0.0	7.1	0.40	7.1«	25.0	
©1982-2020 Innovyze											

RSK LDE										Page 11	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by						
XP Solutions					Network 2020.1.3						
<u>Network Design Table for Surface Network 1</u>											
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
28.000	46.370	0.050	927.4	0.033	5.00	0.0	0.600	o	300	Pipe/Conduit	
28.001	9.129	0.150	60.9	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
28.002	16.992	0.050	339.8	0.037	0.00	0.0	0.600	o	150	Pipe/Conduit	
28.003	8.356	0.000	0.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
28.004	12.917	0.090	143.5	0.010	0.00	0.0	0.600	o	150	Pipe/Conduit	
29.000	16.326	0.115	142.0	0.013	5.00	0.0	0.600	o	150	Pipe/Conduit	
20.013	15.685	0.040	392.1	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
30.000	9.451	0.090	105.0	0.053	5.00	0.0	0.600	o	150	Pipe/Conduit	
30.001	9.804	0.190	51.6	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
20.014	34.119	0.140	243.7	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
31.000	6.178	0.190	32.5	0.021	5.00	0.0	0.600	o	150	Pipe/Conduit	
31.001	13.576	0.120	113.1	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
31.002	8.815	0.290	30.4	0.059	0.00	0.0	0.600	o	150	Pipe/Conduit	
20.015	23.076	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
32.000	9.323	0.840	11.1	0.014	5.00	0.0	0.600	o	150	Pipe/Conduit	
<u>Network Results Table</u>											
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul Flow (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
28.000	50.00	6.52	6.100	0.033	0.0	0.0	1.8	0.51	35.9	6.3	
28.001	50.00	6.64	6.200	0.033	0.0	0.0	1.8	1.29	22.8	6.3	
28.002	50.00	7.16	6.050	0.070	0.0	0.0	3.8	0.54	9.5«	13.3	
28.003	50.00	8.67	6.000	0.070	0.0	0.0	3.8	0.09	1.6«	13.3	
28.004	50.00	8.92	6.000	0.080	0.0	0.0	4.3	0.84	14.8«	15.2	
29.000	50.00	5.32	6.025	0.013	0.0	0.0	0.7	0.84	14.9	2.5	
20.013	50.00	13.96	4.640	0.795	0.0	0.0	43.1	0.79	55.7«	150.7	
30.000	50.00	5.16	5.880	0.053	0.0	0.0	2.9	0.98	17.3	10.0	
30.001	50.00	5.28	5.790	0.053	0.0	0.0	2.9	1.40	24.8	10.0	
20.014	50.00	14.53	4.600	0.848	0.0	0.0	45.9	1.00	70.9«	160.8	
31.000	50.00	5.06	5.310	0.021	0.0	0.0	1.1	1.77	31.3	4.0	
31.001	50.00	5.30	5.120	0.021	0.0	0.0	1.1	0.94	16.7	4.0	
31.002	50.00	5.38	5.000	0.080	0.0	0.0	4.3	1.83	32.4	15.2	
20.015	50.00	17.11	4.460	0.928	0.0	0.0	50.3	0.15	10.5«	175.9	
32.000	50.00	5.05	5.550	0.014	0.0	0.0	0.8	3.04	53.7	2.7	
©1982-2020 Innovyze											

RSK LDE										Page 12		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data							
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by							
XP Solutions					Network 2020.1.3							
<u>Network Design Table for Surface Network 1</u>												
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section	Type	Auto Design
20.016	15.391	0.060	256.5	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		
33.000	10.092	0.450	22.4	0.030	5.00	0.0	0.600	o	150	Pipe/Conduit		
20.017	14.640	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		
34.000	19.780	0.150	131.9	0.032	5.00	0.0	0.600	o	150	Pipe/Conduit		
34.001	19.374	0.130	149.0	0.023	0.00	0.0	0.600	o	150	Pipe/Conduit		
34.002	6.741	0.060	112.4	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
35.000	20.846	0.378	55.1	0.028	5.00	0.0	0.600	o	150	Pipe/Conduit		
34.003	7.942	0.260	30.5	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
20.018	11.784	0.250	47.1	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		
36.000	49.652	0.470	105.6	0.112	5.00	0.0	0.600	o	150	Pipe/Conduit		
37.000	5.828	0.300	19.4	0.026	5.00	0.0	0.600	o	150	Pipe/Conduit		
36.001	15.880	0.220	72.2	0.021	0.00	0.0	0.600	o	300	Pipe/Conduit		
<u>Network Results Table</u>												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
20.016	50.00	17.37	4.460	0.942		0.0	0.0	51.0	0.98	69.1	«	178.6
33.000	50.00	5.08	5.100	0.030		0.0	0.0	1.6	2.14	37.7		5.7
20.017	50.00	19.01	4.400	0.972		0.0	0.0	52.6	0.15	10.5	«	184.3
34.000	50.00	5.38	5.250	0.032		0.0	0.0	1.7	0.87	15.4		6.1
34.001	50.00	5.77	5.100	0.055		0.0	0.0	3.0	0.82	14.5		10.4
34.002	50.00	5.89	4.970	0.055		0.0	0.0	3.0	0.95	16.7		10.4
35.000	50.00	5.26	5.288	0.028		0.0	0.0	1.5	1.36	24.0		5.3
34.003	50.00	5.96	4.910	0.083		0.0	0.0	4.5	1.83	32.3		15.7
20.018	50.00	19.10	4.400	1.055		0.0	0.0	57.1	2.30	162.3	«	200.0
36.000	50.00	5.85	5.270	0.112		0.0	0.0	6.1	0.98	17.3	«	21.2
37.000	50.00	5.04	5.100	0.026		0.0	0.0	1.4	2.30	40.6		4.9
36.001	50.00	5.99	4.650	0.159		0.0	0.0	8.6	1.85	131.0		30.1
©1982-2020 Innovyze												

RSK LDE										Page 13	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by						
XP Solutions					Network 2020.1.3						
<u>Network Design Table for Surface Network 1</u>											
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
36.002	17.265	0.070	246.6	0.013	0.00	0.0	0.600	o	300	Pipe/Conduit	
38.000	15.485	0.119	130.1	0.023	5.00	0.0	0.600	o	150	Pipe/Conduit	
38.001	17.814	0.287	62.1	0.051	0.00	0.0	0.600	o	150	Pipe/Conduit	
36.003	23.494	0.090	261.0	0.021	0.00	0.0	0.600	o	300	Pipe/Conduit	
36.004	22.413	0.120	186.8	0.027	0.00	0.0	0.600	o	300	Pipe/Conduit	
39.000	20.257	0.270	75.0	0.033	5.00	0.0	0.600	o	150	Pipe/Conduit	
20.019	4.632	0.030	154.4	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
40.000	9.059	0.305	29.7	0.017	5.00	0.0	0.600	o	150	Pipe/Conduit	
41.000	6.094	0.180	33.9	0.021	5.00	0.0	0.600	o	150	Pipe/Conduit	
20.020	11.644	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
20.021	32.158	0.155	207.5	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
20.022	6.651	0.080	83.1	0.041	0.00	0.0	0.600	o	300	Pipe/Conduit	
42.000	11.918	0.098	121.6	0.007	5.00	0.0	0.600	o	150	Pipe/Conduit	
42.001	13.879	0.198	70.1	0.011	0.00	0.0	0.600	o	150	Pipe/Conduit	
<u>Network Results Table</u>											
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
36.002	50.00	6.28	4.430	0.172	0.0	0.0	9.3	1.00	70.4	32.6	
38.000	50.00	5.29	4.766	0.023	0.0	0.0	1.2	0.88	15.5	4.4	
38.001	50.00	5.53	4.647	0.074	0.0	0.0	4.0	1.28	22.6	14.0	
36.003	50.00	6.68	4.360	0.267	0.0	0.0	14.5	0.97	68.5	50.6	
36.004	50.00	7.01	4.270	0.294	0.0	0.0	15.9	1.15	81.1	55.7	
39.000	50.00	5.29	4.570	0.033	0.0	0.0	1.8	1.16	20.5	6.3	
20.019	50.00	19.16	4.150	1.382	0.0	0.0	74.9	1.26	89.3«	262.0	
40.000	50.00	5.08	4.575	0.017	0.0	0.0	0.9	1.85	32.8	3.2	
41.000	50.00	5.06	4.450	0.021	0.0	0.0	1.1	1.74	30.7	4.0	
20.020	50.00	20.46	4.120	1.420	0.0	0.0	76.9	0.15	10.5«	269.2	
20.021	50.00	20.96	4.120	1.420	0.0	0.0	76.9	1.09	76.9«	269.2	
20.022	50.00	21.02	3.965	1.461	0.0	0.0	79.1	1.73	122.0«	277.0	
42.000	50.00	5.22	4.566	0.007	0.0	0.0	0.4	0.91	16.1	1.3	
42.001	50.00	5.41	4.468	0.018	0.0	0.0	1.0	1.20	21.3	3.4	
©1982-2020 Innovyze											

RSK LDE										Page 14		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data							
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by							
XP Solutions					Network 2020.1.3							
<u>Network Design Table for Surface Network 1</u>												
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section	Type	Auto Design
43.000	9.055	0.300	30.2	0.035	5.00	0.0	0.600	o	150	Pipe/Conduit		
42.002	16.673	0.150	111.2	0.014	0.00	0.0	0.600	o	150	Pipe/Conduit		
42.003	7.928	0.085	93.3	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
20.023	4.513	0.016	282.1	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		
20.024	8.201	0.034	241.2	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		
1.022	17.390	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		
1.023	48.402	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		
1.024	38.318	0.115	333.2	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		
44.000	11.954	0.120	99.6	0.021	5.00	0.0	0.600	o	150	Pipe/Conduit		
45.000	7.349	0.560	13.1	0.021	5.00	0.0	0.600	o	150	Pipe/Conduit		
44.001	22.295	0.172	129.6	0.023	0.00	0.0	0.600	o	150	Pipe/Conduit		
46.000	6.317	0.260	24.3	0.024	5.00	0.0	0.600	o	150	Pipe/Conduit		
46.001	6.785	0.052	130.5	0.007	0.00	0.0	0.600	o	150	Pipe/Conduit		
<u>Network Results Table</u>												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul Flow (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
43.000	50.00	5.08	4.570	0.035	0.0	0.0	1.9	1.84	32.5	6.6		
42.002	50.00	5.70	4.270	0.067	0.0	0.0	3.6	0.95	16.8	12.7		
42.003	50.00	5.83	4.120	0.067	0.0	0.0	3.6	1.04	18.4	12.7		
20.023	50.00	21.10	3.885	1.528	0.0	0.0	82.8	0.93	65.8	289.7		
20.024	50.00	21.24	3.869	1.528	0.0	0.0	82.8	1.01	71.2	289.7		
1.022	50.00	30.00	3.835	2.758	0.0	0.0	149.4	0.15	10.5	522.9		
1.023	50.00	30.00	3.835	2.758	0.0	0.0	149.4	0.15	10.5	522.9		
1.024	50.00	30.00	3.835	2.758	0.0	0.0	149.4	0.86	60.5	522.9		
44.000	50.00	5.20	4.280	0.021	0.0	0.0	1.1	1.01	17.8	4.0		
45.000	50.00	5.04	4.720	0.021	0.0	0.0	1.1	2.80	49.4	4.0		
44.001	50.00	5.62	4.160	0.065	0.0	0.0	3.5	0.88	15.6	12.3		
46.000	50.00	5.05	4.300	0.024	0.0	0.0	1.3	2.05	36.3	4.5		
46.001	50.00	5.18	4.040	0.031	0.0	0.0	1.7	0.88	15.5	5.9		
©1982-2020 Innovyze												

RSK LDE										Page 15	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by						
XP Solutions					Network 2020.1.3						
Network Design Table for Surface Network 1											
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
44.002	11.212	0.058	193.3	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
44.003	27.508	0.135	203.8	0.020	0.00	0.0	0.600	o	225	Pipe/Conduit	
47.000	6.461	0.050	129.2	0.030	5.00	0.0	0.600	o	150	Pipe/Conduit	
44.004	6.311	0.000	0.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.025	20.213	0.020	1010.7	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.026	20.756	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
48.000	15.268	0.110	138.8	0.043	5.00	0.0	0.600	o	150	Pipe/Conduit	
48.001	17.732	0.136	130.4	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
48.002	13.988	0.105	133.2	0.022	0.00	0.0	0.600	o	150	Pipe/Conduit	
48.003	17.575	0.149	118.0	0.011	0.00	0.0	0.600	o	150	Pipe/Conduit	
48.004	8.713	0.155	56.2	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
49.000	13.321	0.445	29.9	0.019	5.00	0.0	0.600	o	150	Pipe/Conduit	
50.000	12.734	0.098	129.9	0.011	5.00	0.0	0.600	o	150	Pipe/Conduit	
48.005	14.384	0.120	119.9	0.011	0.00	0.0	0.600	o	225	Pipe/Conduit	
48.006	24.977	0.200	124.9	0.025	0.00	0.0	0.600	o	225	Pipe/Conduit	
Network Results Table											
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul Flow (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
44.002	50.00	5.82	3.913	0.096	0.0	0.0	5.2	0.94	37.3	18.2	
44.003	50.00	6.32	3.855	0.116	0.0	0.0	6.3	0.91	36.3	22.0	
47.000	50.00	5.12	3.845	0.030	0.0	0.0	1.6	0.88	15.6	5.7	
44.004	50.00	7.18	3.720	0.146	0.0	0.0	7.9	0.12	4.9«	27.7	
1.025	50.00	30.00	3.720	2.904	0.0	0.0	157.3	0.49	34.4«	550.5	
1.026	50.00	30.00	3.700	2.904	0.0	0.0	157.3	0.15	10.5«	550.5	
48.000	50.00	5.30	6.010	0.043	0.0	0.0	2.3	0.85	15.0	8.2	
48.001	50.00	5.64	5.900	0.043	0.0	0.0	2.3	0.88	15.5	8.2	
48.002	50.00	5.90	5.764	0.065	0.0	0.0	3.5	0.87	15.4	12.3	
48.003	50.00	6.22	5.659	0.076	0.0	0.0	4.1	0.92	16.3	14.4	
48.004	50.00	6.33	5.510	0.076	0.0	0.0	4.1	1.34	23.8	14.4	
49.000	50.00	5.12	5.800	0.019	0.0	0.0	1.0	1.85	32.6	3.6	
50.000	50.00	5.24	5.453	0.011	0.0	0.0	0.6	0.88	15.6	2.1	
48.005	50.00	6.53	5.280	0.117	0.0	0.0	6.3	1.19	47.4	22.2	
48.006	50.00	6.89	5.160	0.142	0.0	0.0	7.7	1.17	46.5	26.9	
©1982-2020 Innovyze											

RSK LDE										Page 16	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by						
XP Solutions					Network 2020.1.3						
<u>Network Design Table for Surface Network 1</u>											
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
48.007	8.469	0.080	105.9	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
48.008	6.810	0.030	227.0	0.009	0.00	0.0	0.600	o	225	Pipe/Conduit	
48.009	9.471	0.030	315.7	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
48.010	11.295	0.040	282.4	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
48.011	11.386	0.030	379.5	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
51.000	11.315	0.090	125.7	0.014	5.00	0.0	0.600	o	150	Pipe/Conduit	
51.001	3.838	0.400	9.6	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
48.012	18.379	0.120	153.2	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
48.013	18.447	0.130	141.9	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
52.000	14.874	0.390	38.1	0.033	5.00	0.0	0.600	o	150	Pipe/Conduit	
53.000	7.319	0.390	18.8	0.010	5.00	0.0	0.600	o	150	Pipe/Conduit	
52.001	14.874	0.190	78.3	0.026	0.00	0.0	0.600	o	150	Pipe/Conduit	
52.002	12.797	0.170	75.3	0.009	0.00	0.0	0.600	o	150	Pipe/Conduit	
52.003	7.578	0.060	126.3	0.025	0.00	0.0	0.600	o	150	Pipe/Conduit	
52.004	4.811	0.090	53.5	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
48.014	23.863	0.050	477.3	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
<u>Network Results Table</u>											
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul Flow (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
48.007	50.00	7.00	4.960	0.142	0.0	0.0	7.7	1.27	50.5	26.9	
48.008	50.00	7.13	4.880	0.151	0.0	0.0	8.2	0.86	34.3	28.6	
48.009	50.00	7.31	4.850	0.151	0.0	0.0	8.2	0.88	62.2	28.6	
48.010	50.00	7.51	4.820	0.151	0.0	0.0	8.2	0.93	65.8	28.6	
48.011	50.00	7.75	4.780	0.151	0.0	0.0	8.2	0.80	56.6	28.6	
51.000	50.00	5.21	5.490	0.014	0.0	0.0	0.8	0.89	15.8	2.7	
51.001	50.00	5.23	5.400	0.014	0.0	0.0	0.8	3.27	57.8	2.7	
48.012	50.00	7.99	4.750	0.165	0.0	0.0	8.9	1.27	89.6	31.3	
48.013	50.00	8.22	4.630	0.165	0.0	0.0	8.9	1.32	93.2	31.3	
52.000	50.00	5.15	5.400	0.033	0.0	0.0	1.8	1.63	28.9	6.3	
53.000	50.00	5.05	5.400	0.010	0.0	0.0	0.5	2.34	41.3	1.9	
52.001	50.00	5.37	5.010	0.069	0.0	0.0	3.7	1.14	20.1	13.1	
52.002	50.00	5.55	4.820	0.078	0.0	0.0	4.2	1.16	20.5	14.8	
52.003	50.00	5.69	4.650	0.103	0.0	0.0	5.6	0.89	15.8	19.5	
52.004	50.00	5.75	4.590	0.103	0.0	0.0	5.6	1.38	24.4	19.5	
48.014	50.00	8.78	4.500	0.268	0.0	0.0	14.5	0.71	50.4	50.8	
©1982-2020 Innovyze											

RSK LDE										Page 17		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data							
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by							
XP Solutions					Network 2020.1.3							
<u>Network Design Table for Surface Network 1</u>												
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section	Type	Auto Design
54.000	13.989	0.150	93.3	0.023	5.00	0.0	0.600	o	150	Pipe/Conduit		
54.001	8.454	0.300	28.2	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
54.002	6.381	0.050	127.6	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
48.015	22.453	0.370	60.7	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		
55.000	10.492	0.090	116.6	0.039	5.00	0.0	0.600	o	150	Pipe/Conduit		
56.000	23.817	0.315	75.6	0.062	5.00	0.0	0.600	o	150	Pipe/Conduit		
55.001	8.119	0.050	162.4	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
55.002	5.990	0.035	171.1	0.010	0.00	0.0	0.600	o	225	Pipe/Conduit		
55.003	22.156	0.120	184.6	0.016	0.00	0.0	0.600	o	225	Pipe/Conduit		
57.000	6.476	0.350	18.5	0.017	5.00	0.0	0.600	o	150	Pipe/Conduit		
55.004	23.506	0.135	174.1	0.020	0.00	0.0	0.600	o	225	Pipe/Conduit		
58.000	13.814	0.380	36.4	0.031	5.00	0.0	0.600	o	300	Pipe/Conduit		
55.005	14.419	0.120	120.2	0.016	0.00	0.0	0.600	o	300	Pipe/Conduit		
<u>Network Results Table</u>												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
54.000	50.00	5.22	4.950	0.023	0.0	0.0	1.2	1.04	18.4	4.4		
54.001	50.00	5.30	4.800	0.023	0.0	0.0	1.2	1.90	33.6	4.4		
54.002	50.00	5.42	4.500	0.023	0.0	0.0	1.2	0.89	15.7	4.4		
48.015	50.00	8.96	4.450	0.291	0.0	0.0	15.8	2.02	142.9	55.2		
55.000	50.00	5.19	5.650	0.039	0.0	0.0	2.1	0.93	16.4	7.4		
56.000	50.00	5.34	5.875	0.062	0.0	0.0	3.4	1.16	20.5	11.8		
55.001	50.00	5.52	5.560	0.101	0.0	0.0	5.5	0.79	13.9	19.1		
55.002	50.00	5.62	5.435	0.111	0.0	0.0	6.0	1.00	39.6	21.0		
55.003	50.00	6.00	5.400	0.127	0.0	0.0	6.9	0.96	38.1	24.1		
57.000	50.00	5.05	5.705	0.017	0.0	0.0	0.9	2.35	41.6	3.2		
55.004	50.00	6.40	5.280	0.164	0.0	0.0	8.9	0.99	39.3	31.1		
58.000	50.00	5.09	5.450	0.031	0.0	0.0	1.7	2.62	184.9	5.9		
55.005	50.00	6.56	5.070	0.211	0.0	0.0	11.4	1.43	101.3	40.0		
©1982-2020 Innovyze												

RSK LDE										Page 18	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by						
XP Solutions					Network 2020.1.3						
<u>Network Design Table for Surface Network 1</u>											
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
59.000	5.913	0.130	45.5	0.022	5.00	0.0	0.600	o	150	Pipe/Conduit	
55.006	35.195	0.440	80.0	0.024	0.00	0.0	0.600	o	300	Pipe/Conduit	
60.000	4.517	0.040	112.9	0.023	5.00	0.0	0.600	o	150	Pipe/Conduit	
55.007	23.594	0.250	94.4	0.036	0.00	0.0	0.600	o	300	Pipe/Conduit	
55.008	9.979	0.060	166.3	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
55.009	5.909	0.100	59.1	0.036	0.00	0.0	0.600	o	300	Pipe/Conduit	
55.010	4.450	0.020	222.5	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
48.016	22.062	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
61.000	6.067	0.040	151.7	0.014	5.00	0.0	0.600	o	300	Pipe/Conduit	
61.001	4.644	0.020	232.2	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
48.017	25.461	0.020	1273.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
62.000	15.485	0.255	60.7	0.033	5.00	0.0	0.600	o	150	Pipe/Conduit	
62.001	15.286	0.150	101.9	0.014	0.00	0.0	0.600	o	150	Pipe/Conduit	
62.002	6.494	0.045	144.3	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
<u>Network Results Table</u>											
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
59.000	50.00	5.07	5.230	0.022	0.0	0.0	1.2	1.50	26.4	4.2	
55.006	50.00	6.90	4.950	0.257	0.0	0.0	13.9	1.76	124.4	48.7	
60.000	50.00	5.08	4.700	0.023	0.0	0.0	1.2	0.94	16.7	4.4	
55.007	50.00	7.14	4.510	0.316	0.0	0.0	17.1	1.62	114.4	59.9	
55.008	50.00	7.28	4.260	0.316	0.0	0.0	17.1	1.22	86.0	59.9	
55.009	50.00	7.33	4.200	0.352	0.0	0.0	19.1	2.05	144.8	66.7	
55.010	50.00	7.40	4.100	0.352	0.0	0.0	19.1	1.05	74.2	66.7	
48.016	50.00	11.43	4.080	0.643	0.0	0.0	34.8	0.15	10.5«	121.9	
61.000	50.00	5.08	4.140	0.014	0.0	0.0	0.8	1.27	90.1	2.7	
61.001	50.00	5.15	4.100	0.014	0.0	0.0	0.8	1.03	72.6	2.7	
48.017	50.00	12.42	4.080	0.657	0.0	0.0	35.6	0.43	30.6«	124.6	
62.000	50.00	5.20	4.800	0.033	0.0	0.0	1.8	1.29	22.8	6.3	
62.001	50.00	5.46	4.545	0.047	0.0	0.0	2.5	1.00	17.6	8.9	
62.002	50.00	5.59	4.395	0.047	0.0	0.0	2.5	0.83	14.7	8.9	
©1982-2020 Innovyze											

RSK LDE										Page 19	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by						
XP Solutions					Network 2020.1.3						
<u>Network Design Table for Surface Network 1</u>											
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
62.003	2.619	0.040	65.5	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
48.018	5.411	0.020	270.6	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
48.019	22.710	0.090	252.3	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
48.020	10.353	0.050	207.1	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
48.021	12.519	0.150	83.5	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
63.000	20.274	0.190	106.7	0.027	5.00	0.0	0.600	o	150	Pipe/Conduit	
63.001	9.065	0.090	100.7	0.036	0.00	0.0	0.600	o	150	Pipe/Conduit	
64.000	5.788	0.490	11.8	0.027	5.00	0.0	0.600	o	150	Pipe/Conduit	
63.002	20.889	0.280	74.6	0.010	0.00	0.0	0.600	o	150	Pipe/Conduit	
65.000	7.286	0.715	10.2	0.006	5.00	0.0	0.600	o	150	Pipe/Conduit	
65.001	11.020	0.300	36.7	0.022	0.00	0.0	0.600	o	150	Pipe/Conduit	
63.003	11.398	0.080	142.5	0.040	0.00	0.0	0.600	o	300	Pipe/Conduit	
63.004	48.097	0.250	192.4	0.027	0.00	0.0	0.600	o	300	Pipe/Conduit	
66.000	5.957	0.270	22.1	0.026	5.00	0.0	0.600	o	150	Pipe/Conduit	
<u>Network Results Table</u>											
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
62.003	50.00	5.62	4.350	0.047	0.0	0.0	2.5	1.24	22.0	8.9	
48.018	50.00	12.51	4.060	0.704	0.0	0.0	38.1	0.95	67.2«	133.5	
48.019	50.00	12.89	4.040	0.704	0.0	0.0	38.1	0.99	69.6«	133.5	
48.020	50.00	13.05	3.950	0.704	0.0	0.0	38.1	1.09	77.0«	133.5	
48.021	50.00	13.17	3.900	0.704	0.0	0.0	38.1	1.72	121.7«	133.5	
63.000	50.00	5.35	4.860	0.027	0.0	0.0	1.5	0.97	17.2	5.1	
63.001	50.00	5.50	4.670	0.063	0.0	0.0	3.4	1.00	17.7	11.9	
64.000	50.00	5.03	5.070	0.027	0.0	0.0	1.5	2.95	52.1	5.1	
63.002	50.00	5.80	4.580	0.100	0.0	0.0	5.4	1.17	20.6	19.0	
65.000	50.00	5.04	5.315	0.006	0.0	0.0	0.3	3.17	56.1	1.1	
65.001	50.00	5.15	4.600	0.028	0.0	0.0	1.5	1.67	29.4	5.3	
63.003	50.00	5.94	4.150	0.168	0.0	0.0	9.1	1.32	93.0	31.8	
63.004	50.00	6.65	4.070	0.195	0.0	0.0	10.6	1.13	79.9	37.0	
66.000	50.00	5.05	4.240	0.026	0.0	0.0	1.4	2.15	38.1	4.9	
©1982-2020 Innovyze											

RSK LDE										Page 20																																																																																																																																																																																																																																							
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																																																																																																																																																												
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by																																																																																																																																																																																																																																												
XP Solutions					Network 2020.1.3																																																																																																																																																																																																																																												
<u>Network Design Table for Surface Network 1</u> <table><tr><th>PN</th><th>Length (m)</th><th>Fall (m)</th><th>Slope (1:X)</th><th>I.Area (ha)</th><th>T.E. (mins)</th><th>Base Flow (l/s)</th><th>k (mm)</th><th>HYD SECT</th><th>DIA (mm)</th><th>Section Type</th><th>Auto Design</th></tr><tr><td>63.005</td><td>12.346</td><td>0.050</td><td>246.9</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td>o</td><td>300</td><td>Pipe/Conduit</td><td></td></tr><tr><td>63.006</td><td>5.698</td><td>0.020</td><td>284.9</td><td>0.025</td><td>0.00</td><td>0.0</td><td>0.600</td><td>o</td><td>300</td><td>Pipe/Conduit</td><td></td></tr><tr><td>63.007</td><td>3.876</td><td>0.000</td><td>0.0</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td>o</td><td>300</td><td>Pipe/Conduit</td><td></td></tr><tr><td>48.022</td><td>32.579</td><td>0.000</td><td>0.0</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td>o</td><td>300</td><td>Pipe/Conduit</td><td></td></tr><tr><td>67.000</td><td>11.089</td><td>0.080</td><td>138.6</td><td>0.028</td><td>5.00</td><td>0.0</td><td>0.600</td><td>o</td><td>150</td><td>Pipe/Conduit</td><td></td></tr><tr><td>67.001</td><td>22.582</td><td>0.350</td><td>64.5</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td>o</td><td>150</td><td>Pipe/Conduit</td><td></td></tr><tr><td>48.023</td><td>9.002</td><td>0.050</td><td>180.0</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td>o</td><td>300</td><td>Pipe/Conduit</td><td></td></tr><tr><td>1.027</td><td>9.559</td><td>0.050</td><td>191.2</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td>o</td><td>300</td><td>Pipe/Conduit</td><td></td></tr><tr><td>1.028</td><td>4.451</td><td>0.050</td><td>89.0</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td>o</td><td>300</td><td>Pipe/Conduit</td><td></td></tr></table> <u>Network Results Table</u> <table><tr><th>PN</th><th>Rain (mm/hr)</th><th>T.C. (mins)</th><th>US/IL (m)</th><th>Σ I.Area (ha)</th><th>Σ Base Flow (l/s)</th><th>Foul (l/s)</th><th>Add Flow (l/s)</th><th>Vel (m/s)</th><th>Cap (l/s)</th><th>Flow (l/s)</th></tr><tr><td>63.005</td><td>50.00</td><td>6.86</td><td>3.820</td><td>0.221</td><td>0.0</td><td>0.0</td><td>12.0</td><td>1.00</td><td>70.4</td><td>41.9</td></tr><tr><td>63.006</td><td>50.00</td><td>6.96</td><td>3.770</td><td>0.246</td><td>0.0</td><td>0.0</td><td>13.3</td><td>0.93</td><td>65.5</td><td>46.6</td></tr><tr><td>63.007</td><td>50.00</td><td>7.39</td><td>3.750</td><td>0.246</td><td>0.0</td><td>0.0</td><td>13.3</td><td>0.15</td><td>10.5«</td><td>46.6</td></tr><tr><td>48.022</td><td>50.00</td><td>16.82</td><td>3.750</td><td>0.950</td><td>0.0</td><td>0.0</td><td>51.5</td><td>0.15</td><td>10.5«</td><td>180.1</td></tr><tr><td>67.000</td><td>50.00</td><td>5.22</td><td>4.330</td><td>0.028</td><td>0.0</td><td>0.0</td><td>1.5</td><td>0.85</td><td>15.0</td><td>5.3</td></tr><tr><td>67.001</td><td>50.00</td><td>5.52</td><td>4.250</td><td>0.028</td><td>0.0</td><td>0.0</td><td>1.5</td><td>1.25</td><td>22.2</td><td>5.3</td></tr><tr><td>48.023</td><td>50.00</td><td>16.95</td><td>3.750</td><td>0.978</td><td>0.0</td><td>0.0</td><td>53.0</td><td>1.17</td><td>82.6«</td><td>185.4</td></tr><tr><td>1.027</td><td>50.00</td><td>30.00</td><td>3.700</td><td>3.882</td><td>0.0</td><td>0.0</td><td>210.3</td><td>1.13</td><td>80.1«</td><td>735.9</td></tr><tr><td>1.028</td><td>50.00</td><td>30.00</td><td>3.650</td><td>3.882</td><td>0.0</td><td>0.0</td><td>210.3</td><td>1.67</td><td>117.8«</td><td>735.9</td></tr></table>												PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design	63.005	12.346	0.050	246.9	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		63.006	5.698	0.020	284.9	0.025	0.00	0.0	0.600	o	300	Pipe/Conduit		63.007	3.876	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		48.022	32.579	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		67.000	11.089	0.080	138.6	0.028	5.00	0.0	0.600	o	150	Pipe/Conduit		67.001	22.582	0.350	64.5	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		48.023	9.002	0.050	180.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		1.027	9.559	0.050	191.2	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		1.028	4.451	0.050	89.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	63.005	50.00	6.86	3.820	0.221	0.0	0.0	12.0	1.00	70.4	41.9	63.006	50.00	6.96	3.770	0.246	0.0	0.0	13.3	0.93	65.5	46.6	63.007	50.00	7.39	3.750	0.246	0.0	0.0	13.3	0.15	10.5«	46.6	48.022	50.00	16.82	3.750	0.950	0.0	0.0	51.5	0.15	10.5«	180.1	67.000	50.00	5.22	4.330	0.028	0.0	0.0	1.5	0.85	15.0	5.3	67.001	50.00	5.52	4.250	0.028	0.0	0.0	1.5	1.25	22.2	5.3	48.023	50.00	16.95	3.750	0.978	0.0	0.0	53.0	1.17	82.6«	185.4	1.027	50.00	30.00	3.700	3.882	0.0	0.0	210.3	1.13	80.1«	735.9	1.028	50.00	30.00	3.650	3.882	0.0	0.0	210.3	1.67	117.8«	735.9
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design																																																																																																																																																																																																																																						
63.005	12.346	0.050	246.9	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit																																																																																																																																																																																																																																							
63.006	5.698	0.020	284.9	0.025	0.00	0.0	0.600	o	300	Pipe/Conduit																																																																																																																																																																																																																																							
63.007	3.876	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit																																																																																																																																																																																																																																							
48.022	32.579	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit																																																																																																																																																																																																																																							
67.000	11.089	0.080	138.6	0.028	5.00	0.0	0.600	o	150	Pipe/Conduit																																																																																																																																																																																																																																							
67.001	22.582	0.350	64.5	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit																																																																																																																																																																																																																																							
48.023	9.002	0.050	180.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit																																																																																																																																																																																																																																							
1.027	9.559	0.050	191.2	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit																																																																																																																																																																																																																																							
1.028	4.451	0.050	89.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit																																																																																																																																																																																																																																							
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)																																																																																																																																																																																																																																							
63.005	50.00	6.86	3.820	0.221	0.0	0.0	12.0	1.00	70.4	41.9																																																																																																																																																																																																																																							
63.006	50.00	6.96	3.770	0.246	0.0	0.0	13.3	0.93	65.5	46.6																																																																																																																																																																																																																																							
63.007	50.00	7.39	3.750	0.246	0.0	0.0	13.3	0.15	10.5«	46.6																																																																																																																																																																																																																																							
48.022	50.00	16.82	3.750	0.950	0.0	0.0	51.5	0.15	10.5«	180.1																																																																																																																																																																																																																																							
67.000	50.00	5.22	4.330	0.028	0.0	0.0	1.5	0.85	15.0	5.3																																																																																																																																																																																																																																							
67.001	50.00	5.52	4.250	0.028	0.0	0.0	1.5	1.25	22.2	5.3																																																																																																																																																																																																																																							
48.023	50.00	16.95	3.750	0.978	0.0	0.0	53.0	1.17	82.6«	185.4																																																																																																																																																																																																																																							
1.027	50.00	30.00	3.700	3.882	0.0	0.0	210.3	1.13	80.1«	735.9																																																																																																																																																																																																																																							
1.028	50.00	30.00	3.650	3.882	0.0	0.0	210.3	1.67	117.8«	735.9																																																																																																																																																																																																																																							
©1982-2020 Innovyze																																																																																																																																																																																																																																																	

RSK LDE								Page 21			
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by						
XP Solutions					Network 2020.1.3						
<u>Manhole Schedules for Surface Network 1</u>											
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)	
S1	6.900	1.300	Open Manhole	1200	1.000	5.600	150				
S2	6.900	1.300	Open Manhole	1200	1.001	6.200	150	1.000	5.600	150	
S3	6.900	0.750	Open Manhole	1200	1.002	6.150	150	1.001	6.150	150	
S4	7.180	1.270	Open Manhole	1200	1.003	5.910	150	1.002	5.910	150	
S5	6.900	1.650	Open Manhole	1200	1.004	5.250	300	1.003	5.840	150	
S6	7.300	0.975	Open Manhole	1200	2.000	6.325	150				
S7	7.200	1.245	Open Manhole	1200	2.001	5.955	150	2.000	5.955	150	
S8	7.261	1.356	Open Manhole	1200	2.002	5.905	150	2.001	5.905	150	
S9	7.083	1.253	Open Manhole	1200	2.003	5.830	150	2.002	5.830	150	
S10	6.809	1.249	Open Manhole	1200	2.004	5.560	150	2.003	5.560	150	
S11	6.900	1.380	Open Manhole	1200	2.005	5.520	150	2.004	5.520	150	
S12	6.900	1.650	Open Manhole	1200	1.005	5.250	300	1.004	5.250	300	
								2.005	5.510	150	
S13a	7.019	1.014	Open Manhole	1050	3.000	6.005	150				
S13b	7.275	1.350	Open Manhole	1050	4.000	5.925	150				
S13	7.227	1.347	Open Manhole	1200	3.001	5.880	150	3.000	5.880	150	
								4.000	5.880	150	
S14	7.280	1.460	Open Manhole	1200	3.002	5.820	150	3.001	5.820	150	
S15	7.290	1.550	Open Manhole	1200	3.003	5.740	150	3.002	5.740	150	
S16	7.277	1.577	Open Manhole	1200	3.004	5.700	150	3.003	5.700	150	
S17	7.378	1.678	Open Manhole	1200	3.005	6.115	150	3.004	5.700	150	
S18	7.262	1.237	Open Manhole	1200	3.006	6.025	150	3.005	6.025	150	
S19	7.490	1.390	Open Manhole	1200	5.000	6.100	150				
S20	7.328	1.353	Open Manhole	1200	3.007	5.975	150	3.006	5.975	150	
								5.000	5.975	150	
S21	7.116	1.236	Open Manhole	1200	3.008	5.880	150	3.007	5.880	150	
S255	7.100	1.480	Open Manhole	1200	6.000	5.620	150				
S254	7.104	1.484	Open Manhole	1200	6.001	5.620	150	6.000	5.620	150	
S22	7.425	1.805	Open Manhole	1200	6.002	5.620	225	6.001	5.620	150	
S23	7.150	1.296	Open Manhole	1200	7.000	5.854	150				
S24	6.982	1.549	Open Manhole	1200	3.009	5.433	300	3.008	5.583	150	
								6.002	5.508	225	
								7.000	5.583	150	
S26	6.908	1.498	Open Manhole	1200	3.010	5.410	300	3.009	5.410	300	
S27	6.806	1.424	Open Manhole	1200	3.011	5.382	300	3.010	5.382	300	
S28	6.535	1.253	Open Manhole	1200	3.012	5.282	300	3.011	5.282	300	
S29	6.571	1.114	Open Manhole	1200	8.000	5.457	150				
S30	6.481	1.261	Open Manhole	1200	3.013	5.220	300	3.012	5.220	300	
©1982-2020 Innovyze											

RSK LDE		Page 22
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions	Network 2020.1.3	

Manhole Schedules for Surface Network 1

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)
S31	6.514	1.334	Open Manhole	1200	3.014	5.180	300	8.000	5.370	150	
S32	6.650	1.500	Open Manhole	1200	1.006	5.150	300	3.013	5.180	300	
								1.005	5.150	300	
								3.014	5.150	300	
S33	6.400	0.940	Open Manhole	1200	9.000	5.460	150				
S34	6.350	1.000	Open Manhole	1200	10.000	5.350	150				
S35	6.350	1.060	Open Manhole	1200	9.001	5.290	150	9.000	5.290	150	
								10.000	5.290	150	
S36	6.900	1.780	Open Manhole	1200	1.007	5.120	300	1.006	5.120	300	
								9.001	5.270	150	
S37	6.400	1.280	Open Manhole	1200	1.008	5.120	300	1.007	5.120	300	
S38	6.400	1.280	Open Manhole	1200	1.009	5.120	150	1.008	5.120	300	
S39	6.200	1.240	Open Manhole	1200	1.010	4.960	150	1.009	4.960	150	
S112	7.000	0.950	Open Manhole	1200	11.000	6.050	150				
S111	6.800	0.900	Open Manhole	1200	11.001	5.900	150	11.000	5.900	150	
S40	6.800	1.000	Open Manhole	1200	11.002	5.800	150	11.001	5.800	150	
S41	6.900	1.220	Open Manhole	1200	11.003	5.680	150	11.002	5.680	150	
S42	6.900	1.290	Open Manhole	1200	11.004	5.610	150	11.003	5.610	150	
S257	6.790	1.290	Open Manhole	1050	12.000	5.500	150				
S256	6.777	1.417	Open Manhole	1200	12.001	5.360	150	12.000	5.360	150	
S43	6.618	1.358	Open Manhole	1200	11.005	5.260	150	11.004	5.260	150	
								12.001	5.260	150	
S44	6.482	1.332	Open Manhole	1200	11.006	5.150	150	11.005	5.150	150	
S45	6.293	1.293	Open Manhole	1200	11.007	5.000	150	11.006	5.000	150	
S46	6.096	1.146	Open Manhole	1200	11.008	4.950	150	11.007	4.950	150	
S47	6.095	1.195	Open Manhole	1200	11.009	4.900	150	11.008	4.900	150	
S48	6.450	1.600	Open Manhole	1200	1.011	4.850	150	1.010	4.850	150	
								11.009	4.850	150	
S49	5.800	1.000	Open Manhole	1200	1.012	4.800	225	1.011	4.800	150	
S50	5.800	1.086	Open Manhole	1200	1.013	4.714	225	1.012	4.714	225	
S51	6.150	0.900	Open Manhole	1200	13.000	5.250	150				
S52	6.000	0.940	Open Manhole	1200	13.001	5.060	150	13.000	5.060	150	
S53	6.000	1.332	Open Manhole	1200	1.014	4.668	225	1.013	4.668	225	
								13.001	5.060	150	
S54	6.000	1.458	Open Manhole	1200	1.015	4.542	225	1.014	4.542	225	
S55	5.800	1.448	Open Manhole	1200	1.016	4.352	225	1.015	4.352	225	
S56a	6.462	1.347	Open Manhole	1050	14.000	5.115	150				
S56	6.134	1.344	Open Manhole	1200	14.001	4.790	150	14.000	4.790	150	

©1982-2020 Innovyze

RSK LDE		Page 23
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions	Network 2020.1.3	

Manhole Schedules for Surface Network 1

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)
S57	5.996	1.346	Open Manhole	1200	14.002	4.650	150	14.001	4.650	150	
S58	5.916	1.356	Open Manhole	1200	14.003	4.560	150	14.002	4.560	150	
S59	5.807	1.357	Open Manhole	1200	14.004	4.450	150	14.003	4.450	150	
S60	5.750	1.500	Open Manhole	1200	1.017	4.250	300	1.016	4.250	225	
								14.004	4.250	150	
S61	6.975	0.790	Open Manhole	1200	15.000	6.185	150				
S62	6.900	0.910	Open Manhole	1200	16.000	5.990	150				
S63	6.900	1.190	Open Manhole	1200	15.001	5.710	150	15.000	5.710	150	
								16.000	5.710	150	
S64	6.450	0.940	Open Manhole	1200	15.002	5.510	150	15.001	5.510	150	
S65	6.574	1.544	Open Manhole	1200	15.003	5.030	300	15.002	5.180	150	
S66	6.237	1.497	Open Manhole	1200	15.004	4.740	300	15.003	4.740	300	
S67	6.750	1.790	Open Manhole	1200	17.000	4.960	150				
S68	6.160	1.360	Open Manhole	1200	17.001	4.800	150	17.000	4.800	150	
S69	5.886	1.496	Open Manhole	1200	15.005	4.390	300	15.004	4.390	300	
								17.001	4.540	150	
S70	5.667	1.377	Open Manhole	1200	15.006	4.290	300	15.005	4.290	300	
S71	5.900	1.640	Open Manhole	1200	15.007	4.260	300	15.006	4.260	300	
S72	6.150	1.090	Open Manhole	1200	18.000	5.060	150				
S73	6.000	0.870	Open Manhole	1200	19.000	5.130	150				
S74	6.050	1.200	Open Manhole	1200	18.001	4.850	150	18.000	4.850	150	
								19.000	4.850	150	
S75	5.560	0.790	Open Manhole	1200	18.002	4.770	150	18.001	4.770	150	
S76	5.550	1.350	Open Manhole	1200	1.018	4.200	300	1.017	4.200	300	
								15.007	4.200	300	
								18.002	4.350	150	
S77	5.550	1.400	Open Manhole	1200	1.019	4.150	300	1.018	4.150	300	
S78	5.750	1.650	Open Manhole	1200	1.020	4.100	300	1.019	4.100	300	
S79	5.420	1.370	Open Manhole	1200	1.021	4.050	300	1.020	4.050	300	
S80	7.005	1.345	Open Manhole	1200	20.000	5.660	225				
S81	6.895	1.302	Open Manhole	1200	20.001	5.593	225	20.000	5.593	225	
S82	6.825	1.202	Open Manhole	1200	21.000	5.623	150				
S83	6.669	1.257	Open Manhole	1200	20.002	5.412	300	20.001	5.487	225	
								21.000	5.562	150	
S84	6.529	1.172	Open Manhole	1200	20.003	5.357	300	20.002	5.357	300	
S85	6.499	1.217	Open Manhole	1200	20.004	5.282	300	20.003	5.282	300	
S86	6.497	1.314	Open Manhole	1200	20.005	5.183	300	20.004	5.183	300	
S87	6.600	1.525	Open Manhole	1200	20.006	5.075	300	20.005	5.075	300	

©1982-2020 Innovyze

RSK LDE		Page 24
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions	Network 2020.1.3	

Manhole Schedules for Surface Network 1

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)
S88	6.550	1.520	Open Manhole	1200	20.007	5.030	300	20.006	5.030	300	
S89	6.550	1.607	Open Manhole	1200	20.008	4.943	300	20.007	4.943	300	
S253	7.300	1.400	Open Manhole	1200	22.000	5.900	150				
S90	7.300	1.400	Open Manhole	1200	22.001	5.900	150	22.000	5.900	150	
S91	7.623	1.958	Open Manhole	1200	22.002	5.665	225	22.001	5.740	150	
S92	7.429	1.880	Open Manhole	1200	22.003	5.549	225	22.002	5.549	225	
S93	7.250	1.800	Open Manhole	1200	22.004	5.450	225	22.003	5.450	225	
S94	7.173	1.773	Open Manhole	1200	22.005	5.400	225	22.004	5.400	225	
S95	6.991	1.696	Open Manhole	1200	22.006	5.295	225	22.005	5.295	225	
S96	7.000	1.095	Open Manhole	1200	23.000	5.905	150				
S97	6.780	1.280	Open Manhole	1200	23.001	5.500	150	23.000	5.500	150	
S98	6.980	1.030	Open Manhole	1200	24.000	5.950	150				
S99	6.800	1.606	Open Manhole	1200	22.007	5.194	225	22.006	5.194	225	
								23.001	5.269	150	
								24.000	5.269	150	
S100	6.536	1.549	Open Manhole	1200	22.008	4.987	300	22.007	5.062	225	
S101	6.430	1.495	Open Manhole	1200	22.009	4.935	300	22.008	4.935	300	
S102	6.550	1.635	Open Manhole	1200	22.010	4.915	300	22.009	4.915	300	
S103	6.556	1.641	Open Manhole	1200	20.009	4.915	300	20.008	4.915	300	
								22.010	4.915	300	
S104	6.556	1.641	Open Manhole	1200	20.010	4.915	300	20.009	4.915	300	
S105	6.900	2.150	Open Manhole	1200	20.011	4.750	300	20.010	4.750	300	
S106	7.120	0.905	Open Manhole	1200	25.000	6.215	150				
S107	7.200	1.135	Open Manhole	1200	25.001	6.065	150	25.000	6.065	150	
S108	7.050	1.175	Open Manhole	1200	25.002	5.875	150	25.001	5.875	150	
S109	6.900	1.400	Open Manhole	1200	25.003	5.500	150	25.002	5.500	150	
S110	6.900	2.150	Open Manhole	1200	20.012	4.750	300	20.011	4.750	300	
								25.003	5.000	150	
S113	7.000	0.950	Open Manhole	1200	26.000	6.050	150				
S114	6.804	0.804	Open Manhole	1200	26.001	6.000	150	26.000	6.000	150	
S115a	7.010	0.900	Open Manhole	1050	27.000	6.110	150				
S115	6.849	0.869	Open Manhole	1200	26.002	5.980	150	26.001	5.980	150	
								27.000	5.980	150	
S116	7.100	1.150	Open Manhole	1200	26.003	5.950	150	26.002	5.950	150	
S117	7.100	1.150	Open Manhole	1200	26.004	5.950	150	26.003	5.950	150	
S118	7.000	1.060	Open Manhole	1200	26.005	5.940	150	26.004	5.940	150	
S119	7.000	1.060	Open Manhole	1200	26.006	5.940	150	26.005	5.940	150	
S120	6.750	0.830	Open Manhole	1200	26.007	5.920	150	26.006	5.920	150	

©1982-2020 Innovyze

RSK LDE								Page 25			
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT				Drove Lane, Yapton Surface Water Network Calculations - FEH Data							
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...				Designed by AMuthusami Checked by							
XP Solutions								Network 2020.1.3			
<u>Manhole Schedules for Surface Network 1</u>											
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)
S121	6.900	0.800	Open Manhole	1200	28.000	6.100	300				
S122	7.100	1.050	Open Manhole	1200	28.001	6.200	150	28.000	6.050	300	
S123	7.105	1.055	Open Manhole	1200	28.002	6.050	150	28.001	6.050	150	
S124	6.900	0.900	Open Manhole	1200	28.003	6.000	150	28.002	6.000	150	
S125	6.719	0.719	Open Manhole	1200	28.004	6.000	150	28.003	6.000	150	
S126	6.753	0.728	Open Manhole	1200	29.000	6.025	150				
S127	6.753	2.113	Open Manhole	1200	20.013	4.640	300	20.012	4.640	300	
								26.007	5.910	150	1120
								28.004	5.910	150	1120
								29.000	5.910	150	1120
S128	6.700	0.820	Open Manhole	1200	30.000	5.880	150				
S129	6.745	0.955	Open Manhole	1200	30.001	5.790	150	30.000	5.790	150	
S130	6.600	2.000	Open Manhole	1200	20.014	4.600	300	20.013	4.600	300	
								30.001	5.600	150	850
S131	6.577	1.267	Open Manhole	1200	31.000	5.310	150				
S132	6.474	1.354	Open Manhole	1200	31.001	5.120	150	31.000	5.120	150	
S133	6.320	1.320	Open Manhole	1200	31.002	5.000	150	31.001	5.000	150	
S134	6.600	2.140	Open Manhole	1200	20.015	4.460	300	20.014	4.460	300	
								31.002	4.710	150	100
S135	6.370	0.820	Open Manhole	1200	32.000	5.550	150				
S136	6.600	2.140	Open Manhole	1200	20.016	4.460	300	20.015	4.460	300	
								32.000	4.710	150	100
S137	6.250	1.150	Open Manhole	1200	33.000	5.100	150				
S138	5.938	1.538	Open Manhole	1200	20.017	4.400	300	20.016	4.400	300	
								33.000	4.650	150	100
S139	6.325	1.075	Open Manhole	1200	34.000	5.250	150				
S140	6.050	0.950	Open Manhole	1200	34.001	5.100	150	34.000	5.100	150	
S141	5.930	0.960	Open Manhole	1200	34.002	4.970	150	34.001	4.970	150	
S142	6.074	0.786	Open Manhole	1200	35.000	5.288	150				
S143	6.070	1.160	Open Manhole	1200	34.003	4.910	150	34.002	4.910	150	
								35.000	4.910	150	
S144	5.900	1.500	Open Manhole	1200	20.018	4.400	300	20.017	4.400	300	
								34.003	4.650	150	100
S145	6.617	1.347	Open Manhole	1200	36.000	5.270	150				
S146	6.310	1.210	Open Manhole	1200	37.000	5.100	150				
S147	6.026	1.376	Open Manhole	1200	36.001	4.650	300	36.000	4.800	150	
								37.000	4.800	150	
S148	5.922	1.492	Open Manhole	1200	36.002	4.430	300	36.001	4.430	300	
©1982-2020 Innovyze											

RSK LDE		Page 26
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions	Network 2020.1.3	

Manhole Schedules for Surface Network 1

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)
S149a	5.942	1.176	Open Manhole	1050	38.000	4.766	150				
S149b	6.026	1.379	Open Manhole	1050	38.001	4.647	150	38.000	4.647	150	
S149	6.117	1.757	Open Manhole	1200	36.003	4.360	300	36.002	4.360	300	
								38.001	4.360	150	
S150	5.782	1.512	Open Manhole	1200	36.004	4.270	300	36.003	4.270	300	
S151	5.920	1.350	Open Manhole	1200	39.000	4.570	150				
S152	5.640	1.490	Open Manhole	1200	20.019	4.150	300	20.018	4.150	300	
								36.004	4.150	300	
								39.000	4.300	150	
S153	5.970	1.395	Open Manhole	1200	40.000	4.575	150				
S154	5.850	1.400	Open Manhole	1200	41.000	4.450	150				
S155	5.780	1.660	Open Manhole	1200	20.020	4.120	300	20.019	4.120	300	
								40.000	4.270	150	
								41.000	4.270	150	
S156	5.780	1.660	Open Manhole	1200	20.021	4.120	300	20.020	4.120	300	
S157	5.635	1.670	Open Manhole	1200	20.022	3.965	300	20.021	3.965	300	
S159a	5.916	1.350	Open Manhole	1050	42.000	4.566	150				
S159b	5.818	1.350	Open Manhole	1050	42.001	4.468	150	42.000	4.468	150	
S158	5.750	1.180	Open Manhole	1050	43.000	4.570	150				
S159	5.660	1.390	Open Manhole	1200	42.002	4.270	150	42.001	4.270	150	
								43.000	4.270	150	
S160	5.474	1.354	Open Manhole	1200	42.003	4.120	150	42.002	4.120	150	
S162	5.400	1.515	Open Manhole	1200	20.023	3.885	300	20.022	3.885	300	
								42.003	4.035	150	
S163	5.400	1.531	Open Manhole	1200	20.024	3.869	300	20.023	3.869	300	
S164	5.420	1.585	Open Manhole	1200	1.022	3.835	300	1.021	3.835	300	
								20.024	3.835	300	
S165	5.200	1.365	Open Manhole	1200	1.023	3.835	300	1.022	3.835	300	
S166	5.200	1.365	Open Manhole	1200	1.024	3.835	300	1.023	3.835	300	
S167	5.602	1.322	Open Manhole	1200	44.000	4.280	150				
S168	5.700	0.980	Open Manhole	1200	45.000	4.720	150				
S169	5.505	1.345	Open Manhole	1200	44.001	4.160	150	44.000	4.160	150	
								45.000	4.160	150	
S170	5.630	1.330	Open Manhole	1200	46.000	4.300	150				
S171	5.369	1.329	Open Manhole	1200	46.001	4.040	150	46.000	4.040	150	
S172	5.276	1.363	Open Manhole	1200	44.002	3.913	225	44.001	3.988	150	
								46.001	3.988	150	
S173	5.122	1.267	Open Manhole	1200	44.003	3.855	225	44.002	3.855	225	

RSK LDE		Page 27
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions	Network 2020.1.3	

Manhole Schedules for Surface Network 1

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)
S174	5.170	1.325	Open Manhole	1200	47.000	3.845	150				
S175	5.050	1.330	Open Manhole	1200	44.004	3.720	225	44.003	3.720	225	
								47.000	3.795	150	
S176	4.950	1.230	Open Manhole	1200	1.025	3.720	300	1.024	3.720	300	
								44.004	3.720	225	
S177	4.450	0.750	Open Manhole	1200	1.026	3.700	300	1.025	3.700	300	
S178	7.100	1.090	Open Manhole	1200	48.000	6.010	150				
S179	6.900	1.000	Open Manhole	1200	48.001	5.900	150	48.000	5.900	150	
S180	6.750	0.986	Open Manhole	1200	48.002	5.764	150	48.001	5.764	150	
S181	6.675	1.016	Open Manhole	1200	48.003	5.659	150	48.002	5.659	150	
S182	6.900	1.390	Open Manhole	1200	48.004	5.510	150	48.003	5.510	150	
S184a	7.000	1.200	Open Manhole	1050	49.000	5.800	150				
S183	6.739	1.286	Open Manhole	1050	50.000	5.453	150				
S184	6.863	1.583	Open Manhole	1200	48.005	5.280	225	48.004	5.355	150	
								49.000	5.355	150	
								50.000	5.355	150	
S185	6.728	1.568	Open Manhole	1200	48.006	5.160	225	48.005	5.160	225	
S186	6.550	1.590	Open Manhole	1200	48.007	4.960	225	48.006	4.960	225	
S187	6.300	1.420	Open Manhole	1200	48.008	4.880	225	48.007	4.880	225	
S188	6.750	1.900	Open Manhole	1200	48.009	4.850	300	48.008	4.850	225	
S189	6.750	1.930	Open Manhole	1200	48.010	4.820	300	48.009	4.820	300	
S190	6.300	1.520	Open Manhole	1200	48.011	4.780	300	48.010	4.780	300	
S191	6.500	1.010	Open Manhole	1200	51.000	5.490	150				
S192	6.200	0.800	Open Manhole	1200	51.001	5.400	150	51.000	5.400	150	
S193	6.200	1.450	Open Manhole	1200	48.012	4.750	300	48.011	4.750	300	
								51.001	5.000	150	
S194	6.150	1.520	Open Manhole	1200	48.013	4.630	300	48.012	4.630	300	
S195	6.614	1.214	Open Manhole	1200	52.000	5.400	150				
S196	6.450	1.050	Open Manhole	1200	53.000	5.400	150				
S197	6.385	1.375	Open Manhole	1200	52.001	5.010	150	52.000	5.010	150	
								53.000	5.010	150	
S198	6.129	1.309	Open Manhole	1200	52.002	4.820	150	52.001	4.820	150	
S199	5.992	1.342	Open Manhole	1200	52.003	4.650	150	52.002	4.650	150	
S200	5.950	1.360	Open Manhole	1200	52.004	4.590	150	52.003	4.590	150	
S201	5.950	1.450	Open Manhole	1200	48.014	4.500	300	48.013	4.500	300	
								52.004	4.500	150	
S203	6.000	1.050	Open Manhole	1200	54.000	4.950	150				
S204	5.850	1.050	Open Manhole	1200	54.001	4.800	150	54.000	4.800	150	

©1982-2020 Innovyze

RSK LDE		Page 28
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions	Network 2020.1.3	

Manhole Schedules for Surface Network 1

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)
S205	5.700	1.200	Open Manhole	1200	54.002	4.500	150	54.001	4.500	150	
S206	5.500	1.050	Open Manhole	1200	48.015	4.450	300	48.014	4.450	300	
								54.002	4.450	150	
S207	7.068	1.418	Open Manhole	1200	55.000	5.650	150				
S208a	7.225	1.350	Open Manhole	1050	56.000	5.875	150				
S208	7.026	1.466	Open Manhole	1200	55.001	5.560	150	55.000	5.560	150	
								56.000	5.560	150	
S209	6.950	1.515	Open Manhole	1200	55.002	5.435	225	55.001	5.510	150	
S210	6.919	1.519	Open Manhole	1200	55.003	5.400	225	55.002	5.400	225	
S211	6.925	1.220	Open Manhole	1200	57.000	5.705	150				
S212	6.736	1.456	Open Manhole	1200	55.004	5.280	225	55.003	5.280	225	
								57.000	5.355	150	
S213	6.867	1.417	Open Manhole	1200	58.000	5.450	300				
S214	6.538	1.468	Open Manhole	1200	55.005	5.070	300	55.004	5.145	225	
								58.000	5.070	300	
S215	6.680	1.450	Open Manhole	1200	59.000	5.230	150				
S216	6.425	1.475	Open Manhole	1200	55.006	4.950	300	55.005	4.950	300	
								59.000	5.100	150	
S217	5.979	1.279	Open Manhole	1200	60.000	4.700	150				
S218	5.997	1.487	Open Manhole	1200	55.007	4.510	300	55.006	4.510	300	
								60.000	4.660	150	
S219	5.767	1.507	Open Manhole	1200	55.008	4.260	300	55.007	4.260	300	
S220	5.666	1.466	Open Manhole	1200	55.009	4.200	300	55.008	4.200	300	
S221	5.500	1.400	Open Manhole	1200	55.010	4.100	300	55.009	4.100	300	
S222	5.500	1.420	Open Manhole	1200	48.016	4.080	300	48.015	4.080	300	
								55.010	4.080	300	
S223	5.636	1.496	Open Manhole	1200	61.000	4.140	300				
S224	5.600	1.500	Open Manhole	1200	61.001	4.100	300	61.000	4.100	300	
S225	5.500	1.420	Open Manhole	1200	48.017	4.080	300	48.016	4.080	300	
								61.001	4.080	300	
S226	5.930	1.130	Open Manhole	1200	62.000	4.800	150				
S227	5.500	0.955	Open Manhole	1200	62.001	4.545	150	62.000	4.545	150	
S228	5.400	1.005	Open Manhole	1200	62.002	4.395	150	62.001	4.395	150	
S229	5.300	0.950	Open Manhole	1200	62.003	4.350	150	62.002	4.350	150	
S230	5.250	1.190	Open Manhole	1200	48.018	4.060	300	48.017	4.060	300	
								62.003	4.310	150	
S231	5.200	1.160	Open Manhole	1200	48.019	4.040	300	48.018	4.040	300	
S232	5.150	1.200	Open Manhole	1200	48.020	3.950	300	48.019	3.950	300	

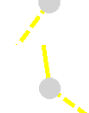
©1982-2020 Innovyze

RSK LDE		Page 29
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions	Network 2020.1.3	

Manhole Schedules for Surface Network 1

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)
S233	5.150	1.250	Open Manhole	1200	48.021	3.900	300	48.020	3.900	300	
S234	6.218	1.358	Open Manhole	1200	63.000	4.860	150				
S235	6.050	1.380	Open Manhole	1200	63.001	4.670	150	63.000	4.670	150	
S236	6.180	1.110	Open Manhole	1200	64.000	5.070	150				
S237	5.966	1.386	Open Manhole	1200	63.002	4.580	150	63.001	4.580	150	
								64.000	4.580	150	
S238	6.200	0.885	Open Manhole	1200	65.000	5.315	150				
S239	5.952	1.352	Open Manhole	1200	65.001	4.600	150	65.000	4.600	150	
S240	5.803	1.653	Open Manhole	1200	63.003	4.150	300	63.002	4.300	150	
								65.001	4.300	150	
S241	5.694	1.624	Open Manhole	1200	63.004	4.070	300	63.003	4.070	300	
S242	5.450	1.210	Open Manhole	600	66.000	4.240	150				
S243	5.279	1.459	Open Manhole	1200	63.005	3.820	300	63.004	3.820	300	
								66.000	3.970	150	
S244	5.172	1.402	Open Manhole	1200	63.006	3.770	300	63.005	3.770	300	
S245	5.100	1.350	Open Manhole	1200	63.007	3.750	300	63.006	3.750	300	
S246	5.000	1.250	Open Manhole	1200	48.022	3.750	300	48.021	3.750	300	
								63.007	3.750	300	
S247	5.250	0.920	Open Manhole	1200	67.000	4.330	150				
S248	5.100	0.850	Open Manhole	1200	67.001	4.250	150	67.000	4.250	150	
S249	4.500	0.750	Open Manhole	1200	48.023	3.750	300	48.022	3.750	300	
								67.001	3.900	150	
S250	4.450	0.750	Open Manhole	1200	1.027	3.700	300	1.026	3.700	300	
								48.023	3.700	300	
S251	4.450	0.800	Open Manhole	1800	1.028	3.650	300	1.027	3.650	300	
S252	4.450	0.850	Open Manhole	1200		OUTFALL		1.028	3.600	300	

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S1	497521.671	103169.673	497521.671	103169.673	Required	
S2	497568.932	103233.771	497568.932	103233.771	Required	
S3	497571.244	103236.907	497571.244	103236.907	Required	

RSK LDE					Page 30	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by			
XP Solutions			Network 2020.1.3			
<u>Manhole Schedules for Surface Network 1</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S4	497546.131	103255.383	497546.131	103255.383	Required	
S5	497541.226	103250.341	497541.226	103250.341	Required	
S6	497515.610	103194.835	497515.610	103194.835	Required	
S7	497544.019	103233.649	497544.019	103233.649	Required	
S8	497538.245	103237.907	497538.245	103237.907	Required	
S9	497536.911	103247.010	497536.911	103247.010	Required	
S10	497510.121	103266.061	497510.121	103266.061	Required	
S11	497511.843	103268.455	497511.843	103268.455	Required	
S12	497513.095	103270.180	497513.095	103270.180	Required	
S13a	497503.839	103186.271	497503.839	103186.271	Required	
S13b	497510.913	103204.419	497510.913	103204.419	Required	
S13	497506.946	103200.915	497506.946	103200.915	Required	
S14	497500.671	103204.358	497500.671	103204.358	Required	
S15	497495.647	103204.761	497495.647	103204.761	Required	
S16	497494.587	103200.561	497494.587	103200.561	Required	
©1982-2020 Innovyze						

RSK LDE					Page 31	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by			
XP Solutions			Network 2020.1.3			
Manhole Schedules for Surface Network 1						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S17	497471.274	103205.114	497471.274	103205.114	Required	
S18	497462.829	103213.425	497462.829	103213.425	Required	
S19	497455.357	103198.609	497455.357	103198.609	Required	
S20	497455.552	103213.573	497455.552	103213.573	Required	
S21	497452.984	103227.118	497452.984	103227.118	Required	
S255	497481.331	103243.104	497481.331	103243.104	Required	
S254	497479.248	103240.262	497479.248	103240.262	Required	
S22	497476.939	103237.016	497476.939	103237.016	Required	
S23	497446.025	103233.558	497446.025	103233.558	Required	
S24	497452.794	103236.743	497452.794	103236.743	Required	
S26	497451.393	103243.278	497451.393	103243.278	Required	
S27	497448.508	103251.128	497448.508	103251.128	Required	
S28	497465.632	103275.134	497465.632	103275.134	Required	
S29	497486.412	103282.921	497486.412	103282.921	Required	
S30	497476.519	103289.956	497476.519	103289.956	Required	
©1982-2020 Innovyze						

RSK LDE					Page 32	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by			
XP Solutions			Network 2020.1.3			
<u>Manhole Schedules for Surface Network 1</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S31	497469.609	103294.870	497469.609	103294.870	Required	
S32	497472.442	103298.850	497472.442	103298.850	Required	
S33	497435.871	103321.824	497435.871	103321.824	Required	
S34	497413.100	103328.290	497413.100	103328.290	Required	
S35	497417.721	103334.963	497417.721	103334.963	Required	
S36	497418.958	103336.594	497418.958	103336.594	Required	
S37	497409.562	103343.225	497409.562	103343.225	Required	
S38	497407.675	103344.557	497407.675	103344.557	Required	
S39	497392.293	103342.741	497392.293	103342.741	Required	
S112	497388.091	103186.760	497388.091	103186.760	Required	
S111	497387.653	103206.146	497387.653	103206.146	Required	
S40	497387.796	103218.873	497387.796	103218.873	Required	
S41	497388.868	103240.753	497388.868	103240.753	Required	
S42	497389.161	103246.862	497389.161	103246.862	Required	
S257	497421.144	103261.754	497421.144	103261.754	Required	
©1982-2020 Innovyze						

RSK LDE					Page 33	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by			
XP Solutions			Network 2020.1.3			
<u>Manhole Schedules for Surface Network 1</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S256	497402.052	103261.795	497402.052	103261.795	Required	
S43	497389.865	103267.847	497389.865	103267.847	Required	
S44	497387.814	103279.105	497387.814	103279.105	Required	
S45	497386.839	103300.026	497386.839	103300.026	Required	
S46	497385.617	103327.263	497385.617	103327.263	Required	
S47	497385.137	103335.608	497385.137	103335.608	Required	
S48	497378.519	103341.114	497378.519	103341.114	Required	
S49	497372.652	103340.508	497372.652	103340.508	Required	
S50	497356.796	103333.815	497356.796	103333.815	Required	
S51	497381.048	103326.478	497381.048	103326.478	Required	
S52	497356.097	103325.337	497356.097	103325.337	Required	
S53	497351.069	103326.646	497351.069	103326.646	Required	
S54	497326.997	103302.767	497326.997	103302.767	Required	
S55	497313.989	103278.833	497313.989	103278.833	Required	
S56a	497381.013	103275.556	497381.013	103275.556	Required	
©1982-2020 Innovyze						

RSK LDE						Page 34
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by			
XP Solutions			Network 2020.1.3			
<u>Manhole Schedules for Surface Network 1</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S56	497347.895	103274.919	497347.895	103274.919	Required	
S57	497335.749	103279.039	497335.749	103279.039	Required	
S58	497328.083	103282.839	497328.083	103282.839	Required	
S59	497321.800	103271.520	497321.800	103271.520	Required	
S60	497307.073	103268.460	497307.073	103268.460	Required	
S61	497401.124	103157.835	497401.124	103157.835	Required	
S62	497401.446	103253.698	497401.446	103253.698	Required	
S63	497401.275	103218.048	497401.275	103218.048	Required	
S64	497377.062	103218.046	497377.062	103218.046	Required	
S65	497376.187	103214.088	497376.187	103214.088	Required	
S66	497339.041	103214.024	497339.041	103214.024	Required	
S67	497326.978	103208.395	497326.978	103208.395	Required	
S68	497309.294	103208.679	497309.294	103208.679	Required	
S69	497303.465	103214.429	497303.465	103214.429	Required	
S70	497277.695	103219.279	497277.695	103219.279	Required	
©1982-2020 Innovyze						

RSK LDE					Page 35	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by			
XP Solutions			Network 2020.1.3			
<u>Manhole Schedules for Surface Network 1</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S71	497278.836	103224.901	497278.836	103224.901	Required	
S72	497319.586	103218.120	497319.586	103218.120	Required	
S73	497321.332	103255.629	497321.332	103255.629	Required	
S74	497319.326	103243.329	497319.326	103243.329	Required	
S75	497309.571	103243.408	497309.571	103243.408	Required	
S76	497279.376	103230.649	497279.376	103230.649	Required	
S77	497273.369	103230.790	497273.369	103230.790	Required	
S78	497263.674	103226.873	497263.674	103226.873	Required	
S79	497242.077	103204.518	497242.077	103204.518	Required	
S80	497475.392	103115.722	497475.392	103115.722	Required	
S81	497488.044	103110.215	497488.044	103110.215	Required	
S82	497505.899	103103.928	497505.899	103103.928	Required	
S83	497504.294	103095.888	497504.294	103095.888	Required	
S84	497494.228	103085.014	497494.228	103085.014	Required	
S85	497481.087	103067.907	497481.087	103067.907	Required	
©1982-2020 Innovyze						

RSK LDE					Page 36																																																																																																																	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																																			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by																																																																																																																			
XP Solutions			Network 2020.1.3																																																																																																																			
<u>Manhole Schedules for Surface Network 1</u> <table><tr><th>MH Name</th><th>Manhole Easting (m)</th><th>Manhole Northing (m)</th><th>Intersection Easting (m)</th><th>Intersection Northing (m)</th><th>Manhole Access</th><th>Layout (North)</th></tr><tr><td>S86</td><td>497461.548</td><td>103048.338</td><td>497461.548</td><td>103048.338</td><td>Required</td><td></td></tr><tr><td>S87</td><td>497439.830</td><td>103027.770</td><td>497439.830</td><td>103027.770</td><td>Required</td><td></td></tr><tr><td>S88</td><td>497430.463</td><td>103031.423</td><td>497430.463</td><td>103031.423</td><td>Required</td><td></td></tr><tr><td>S89</td><td>497415.022</td><td>103045.052</td><td>497415.022</td><td>103045.052</td><td>Required</td><td></td></tr><tr><td>S253</td><td>497472.942</td><td>103165.727</td><td>497472.942</td><td>103165.727</td><td>Required</td><td></td></tr><tr><td>S90</td><td>497468.645</td><td>103165.777</td><td>497468.645</td><td>103165.777</td><td>Required</td><td></td></tr><tr><td>S91</td><td>497455.246</td><td>103165.738</td><td>497455.246</td><td>103165.738</td><td>Required</td><td></td></tr><tr><td>S92</td><td>497454.717</td><td>103142.434</td><td>497454.717</td><td>103142.434</td><td>Required</td><td></td></tr><tr><td>S93</td><td>497451.572</td><td>103122.919</td><td>497451.572</td><td>103122.919</td><td>Required</td><td></td></tr><tr><td>S94</td><td>497449.599</td><td>103113.095</td><td>497449.599</td><td>103113.095</td><td>Required</td><td></td></tr><tr><td>S95</td><td>497440.745</td><td>103093.816</td><td>497440.745</td><td>103093.816</td><td>Required</td><td></td></tr><tr><td>S96</td><td>497445.923</td><td>103094.212</td><td>497445.923</td><td>103094.212</td><td>Required</td><td></td></tr><tr><td>S97</td><td>497429.189</td><td>103076.341</td><td>497429.189</td><td>103076.341</td><td>Required</td><td></td></tr><tr><td>S98</td><td>497425.354</td><td>103086.883</td><td>497425.354</td><td>103086.883</td><td>Required</td><td></td></tr><tr><td>S99</td><td>497426.538</td><td>103078.525</td><td>497426.538</td><td>103078.525</td><td>Required</td><td></td></tr></table>							MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)	S86	497461.548	103048.338	497461.548	103048.338	Required		S87	497439.830	103027.770	497439.830	103027.770	Required		S88	497430.463	103031.423	497430.463	103031.423	Required		S89	497415.022	103045.052	497415.022	103045.052	Required		S253	497472.942	103165.727	497472.942	103165.727	Required		S90	497468.645	103165.777	497468.645	103165.777	Required		S91	497455.246	103165.738	497455.246	103165.738	Required		S92	497454.717	103142.434	497454.717	103142.434	Required		S93	497451.572	103122.919	497451.572	103122.919	Required		S94	497449.599	103113.095	497449.599	103113.095	Required		S95	497440.745	103093.816	497440.745	103093.816	Required		S96	497445.923	103094.212	497445.923	103094.212	Required		S97	497429.189	103076.341	497429.189	103076.341	Required		S98	497425.354	103086.883	497425.354	103086.883	Required		S99	497426.538	103078.525	497426.538	103078.525	Required	
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)																																																																																																																
S86	497461.548	103048.338	497461.548	103048.338	Required																																																																																																																	
S87	497439.830	103027.770	497439.830	103027.770	Required																																																																																																																	
S88	497430.463	103031.423	497430.463	103031.423	Required																																																																																																																	
S89	497415.022	103045.052	497415.022	103045.052	Required																																																																																																																	
S253	497472.942	103165.727	497472.942	103165.727	Required																																																																																																																	
S90	497468.645	103165.777	497468.645	103165.777	Required																																																																																																																	
S91	497455.246	103165.738	497455.246	103165.738	Required																																																																																																																	
S92	497454.717	103142.434	497454.717	103142.434	Required																																																																																																																	
S93	497451.572	103122.919	497451.572	103122.919	Required																																																																																																																	
S94	497449.599	103113.095	497449.599	103113.095	Required																																																																																																																	
S95	497440.745	103093.816	497440.745	103093.816	Required																																																																																																																	
S96	497445.923	103094.212	497445.923	103094.212	Required																																																																																																																	
S97	497429.189	103076.341	497429.189	103076.341	Required																																																																																																																	
S98	497425.354	103086.883	497425.354	103086.883	Required																																																																																																																	
S99	497426.538	103078.525	497426.538	103078.525	Required																																																																																																																	
©1982-2020 Innovyze																																																																																																																						

RSK LDE						Page 37																																																																																																																
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																																			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by																																																																																																																			
XP Solutions			Network 2020.1.3																																																																																																																			
<u>Manhole Schedules for Surface Network 1</u> <table><tr><th>MH Name</th><th>Manhole Easting (m)</th><th>Manhole Northing (m)</th><th>Intersection Easting (m)</th><th>Intersection Northing (m)</th><th>Manhole Access</th><th>Layout (North)</th></tr><tr><td>S100</td><td>497408.413</td><td>103059.224</td><td>497408.413</td><td>103059.224</td><td>Required</td><td></td></tr><tr><td>S101</td><td>497415.661</td><td>103051.963</td><td>497415.661</td><td>103051.963</td><td>Required</td><td></td></tr><tr><td>S102</td><td>497412.988</td><td>103048.676</td><td>497412.988</td><td>103048.676</td><td>Required</td><td></td></tr><tr><td>S103</td><td>497409.543</td><td>103048.145</td><td>497409.543</td><td>103048.145</td><td>Required</td><td></td></tr><tr><td>S104</td><td>497404.567</td><td>103054.141</td><td>497404.567</td><td>103054.141</td><td>Required</td><td></td></tr><tr><td>S105</td><td>497380.777</td><td>103057.763</td><td>497380.777</td><td>103057.763</td><td>Required</td><td></td></tr><tr><td>S106</td><td>497394.751</td><td>103119.219</td><td>497394.751</td><td>103119.219</td><td>Required</td><td></td></tr><tr><td>S107</td><td>497387.297</td><td>103102.442</td><td>497387.297</td><td>103102.442</td><td>Required</td><td></td></tr><tr><td>S108</td><td>497375.503</td><td>103082.684</td><td>497375.503</td><td>103082.684</td><td>Required</td><td></td></tr><tr><td>S109</td><td>497378.765</td><td>103072.162</td><td>497378.765</td><td>103072.162</td><td>Required</td><td></td></tr><tr><td>S110</td><td>497371.690</td><td>103064.741</td><td>497371.690</td><td>103064.741</td><td>Required</td><td></td></tr><tr><td>S113</td><td>497388.240</td><td>103180.587</td><td>497388.240</td><td>103180.587</td><td>Required</td><td></td></tr><tr><td>S114</td><td>497388.640</td><td>103162.674</td><td>497388.640</td><td>103162.674</td><td>Required</td><td></td></tr><tr><td>S115a</td><td>497406.138</td><td>103139.729</td><td>497406.138</td><td>103139.729</td><td>Required</td><td></td></tr><tr><td>S115</td><td>497388.235</td><td>103145.350</td><td>497388.235</td><td>103145.350</td><td>Required</td><td></td></tr></table>							MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)	S100	497408.413	103059.224	497408.413	103059.224	Required		S101	497415.661	103051.963	497415.661	103051.963	Required		S102	497412.988	103048.676	497412.988	103048.676	Required		S103	497409.543	103048.145	497409.543	103048.145	Required		S104	497404.567	103054.141	497404.567	103054.141	Required		S105	497380.777	103057.763	497380.777	103057.763	Required		S106	497394.751	103119.219	497394.751	103119.219	Required		S107	497387.297	103102.442	497387.297	103102.442	Required		S108	497375.503	103082.684	497375.503	103082.684	Required		S109	497378.765	103072.162	497378.765	103072.162	Required		S110	497371.690	103064.741	497371.690	103064.741	Required		S113	497388.240	103180.587	497388.240	103180.587	Required		S114	497388.640	103162.674	497388.640	103162.674	Required		S115a	497406.138	103139.729	497406.138	103139.729	Required		S115	497388.235	103145.350	497388.235	103145.350	Required	
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)																																																																																																																
S100	497408.413	103059.224	497408.413	103059.224	Required																																																																																																																	
S101	497415.661	103051.963	497415.661	103051.963	Required																																																																																																																	
S102	497412.988	103048.676	497412.988	103048.676	Required																																																																																																																	
S103	497409.543	103048.145	497409.543	103048.145	Required																																																																																																																	
S104	497404.567	103054.141	497404.567	103054.141	Required																																																																																																																	
S105	497380.777	103057.763	497380.777	103057.763	Required																																																																																																																	
S106	497394.751	103119.219	497394.751	103119.219	Required																																																																																																																	
S107	497387.297	103102.442	497387.297	103102.442	Required																																																																																																																	
S108	497375.503	103082.684	497375.503	103082.684	Required																																																																																																																	
S109	497378.765	103072.162	497378.765	103072.162	Required																																																																																																																	
S110	497371.690	103064.741	497371.690	103064.741	Required																																																																																																																	
S113	497388.240	103180.587	497388.240	103180.587	Required																																																																																																																	
S114	497388.640	103162.674	497388.640	103162.674	Required																																																																																																																	
S115a	497406.138	103139.729	497406.138	103139.729	Required																																																																																																																	
S115	497388.235	103145.350	497388.235	103145.350	Required																																																																																																																	
©1982-2020 Innovyze																																																																																																																						

RSK LDE					Page 38	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by			
XP Solutions			Network 2020.1.3			
<u>Manhole Schedules for Surface Network 1</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S116	497378.933	103113.390	497378.933	103113.390	Required	
S117	497375.980	103107.816	497375.980	103107.816	Required	
S118	497365.023	103092.386	497365.023	103092.386	Required	
S119	497359.104	103086.062	497359.104	103086.062	Required	
S120	497348.177	103071.305	497348.177	103071.305	Required	
S121	497397.658	102995.579	497397.658	102995.579	Required	
S122	497360.142	103022.832	497360.142	103022.832	Required	
S123	497353.714	103029.314	497353.714	103029.314	Required	
S124	497346.102	103044.506	497346.102	103044.506	Required	
S125	497344.866	103052.770	497344.866	103052.770	Required	
S126	497336.647	103079.135	497336.647	103079.135	Required	
S127	497345.848	103065.649	497345.848	103065.649	Required	
S128	497317.493	103049.069	497317.493	103049.069	Required	
S129	497324.438	103055.479	497324.438	103055.479	Required	
S130	497330.339	103063.308	497330.339	103063.308	Required	
©1982-2020 Innovyze						

RSK LDE					Page 39	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by			
XP Solutions			Network 2020.1.3			
<u>Manhole Schedules for Surface Network 1</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S131	497300.865	103066.922	497300.865	103066.922	Required	
S132	497305.423	103071.092	497305.423	103071.092	Required	
S133	497296.293	103081.140	497296.293	103081.140	Required	
S134	497304.137	103085.161	497304.137	103085.161	Required	
S135	497296.674	103110.068	497296.674	103110.068	Required	
S136	497290.089	103103.469	497290.089	103103.469	Required	
S137	497268.188	103105.213	497268.188	103105.213	Required	
S138	497276.572	103110.830	497276.572	103110.830	Required	
S139	497301.873	103135.214	497301.873	103135.214	Required	
S140	497285.582	103146.432	497285.582	103146.432	Required	
S141	497271.320	103133.319	497271.320	103133.319	Required	
S142	497289.594	103112.679	497289.594	103112.679	Required	
S143	497275.442	103127.986	497275.442	103127.986	Required	
S144	497268.991	103123.354	497268.991	103123.354	Required	
S145	497370.861	103154.145	497370.861	103154.145	Required	
©1982-2020 Innovyze						

RSK LDE						Page 40
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by			
XP Solutions			Network 2020.1.3			
<u>Manhole Schedules for Surface Network 1</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S146	497323.671	103160.163	497323.671	103160.163	Required	
S147	497321.214	103154.878	497321.214	103154.878	Required	
S148	497306.265	103160.235	497306.265	103160.235	Required	
S149a	497300.144	103199.042	497300.144	103199.042	Required	
S149b	497297.793	103183.737	497297.793	103183.737	Required	
S149	497290.579	103167.449	497290.579	103167.449	Required	
S150	497277.850	103147.702	497277.850	103147.702	Required	
S151	497246.539	103118.713	497246.539	103118.713	Required	
S152	497261.458	103132.416	497261.458	103132.416	Required	
S153	497251.855	103129.486	497251.855	103129.486	Required	
S154	497262.814	103139.950	497262.814	103139.950	Required	
S155	497258.325	103135.828	497258.325	103135.828	Required	
S156	497250.316	103144.281	497250.316	103144.281	Required	
S157	497227.944	103167.381	497227.944	103167.381	Required	
S159a	497257.502	103213.265	497257.502	103213.265	Required	
©1982-2020 Innovyze						

RSK LDE						Page 41
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by			
XP Solutions			Network 2020.1.3			
<u>Manhole Schedules for Surface Network 1</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S159b	497250.418	103203.681	497250.418	103203.681	Required	
S158	497250.470	103187.124	497250.470	103187.124	Required	
S159	497242.864	103192.038	497242.864	103192.038	Required	
S160	497231.770	103179.591	497231.770	103179.591	Required	
S162	497226.411	103173.758	497226.411	103173.758	Required	
S163	497223.331	103177.211	497223.331	103177.211	Required	
S164	497216.638	103181.950	497216.638	103181.950	Required	
S165	497203.093	103171.043	497203.093	103171.043	Required	
S166	497164.456	103141.890	497164.456	103141.890	Required	
S167	497190.320	103107.956	497190.320	103107.956	Required	
S168	497191.151	103115.690	497191.151	103115.690	Required	
S169	497184.314	103118.385	497184.314	103118.385	Required	
S170	497180.221	103136.225	497180.221	103136.225	Required	
S171	497175.034	103139.831	497175.034	103139.831	Required	
S172	497169.901	103135.394	497169.901	103135.394	Required	
©1982-2020 Innovyze						

RSK LDE						Page 42
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by			
XP Solutions			Network 2020.1.3			
<u>Manhole Schedules for Surface Network 1</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S173	497161.637	103127.817	497161.637	103127.817	Required	
S174	497146.818	103105.793	497146.818	103105.793	Required	
S175	497141.352	103109.237	497141.352	103109.237	Required	
S176	497137.745	103114.416	497137.745	103114.416	Required	
S177	497124.709	103098.968	497124.709	103098.968	Required	
S178	497395.841	102988.435	497395.841	102988.435	Required	
S179	497386.410	102976.365	497386.410	102976.365	Required	
S180	497372.103	102965.890	497372.103	102965.890	Required	
S181	497361.361	102956.930	497361.361	102956.930	Required	
S182	497344.820	102950.990	497344.820	102950.990	Required	
S184a	497332.547	102955.766	497332.547	102955.766	Required	
S183	497351.201	102948.733	497351.201	102948.733	Required	
S184	497339.275	102944.269	497339.275	102944.269	Required	
S185	497326.958	102936.842	497326.958	102936.842	Required	
S186	497307.460	102921.231	497307.460	102921.231	Required	
©1982-2020 Innovyze						

RSK LDE					Page 43	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by			
XP Solutions			Network 2020.1.3			
<u>Manhole Schedules for Surface Network 1</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S187	497299.851	102917.513	497299.851	102917.513	Required	
S188	497294.873	102912.866	497294.873	102912.866	Required	
S189	497285.405	102913.088	497285.405	102913.088	Required	
S190	497276.229	102919.675	497276.229	102919.675	Required	
S191	497280.732	102939.877	497280.732	102939.877	Required	
S192	497272.752	102931.855	497272.752	102931.855	Required	
S193	497269.984	102929.196	497269.984	102929.196	Required	
S194	497258.375	102943.445	497258.375	102943.445	Required	
S195	497283.036	102975.727	497283.036	102975.727	Required	
S196	497279.081	102963.622	497279.081	102963.622	Required	
S197	497272.060	102965.689	497272.060	102965.689	Required	
S198	497261.085	102955.651	497261.085	102955.651	Required	
S199	497251.403	102964.018	497251.403	102964.018	Required	
S200	497246.483	102958.254	497246.483	102958.254	Required	
S201	497243.559	102954.433	497243.559	102954.433	Required	
©1982-2020 Innovyze						

RSK LDE					Page 44	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by			
XP Solutions			Network 2020.1.3			
<u>Manhole Schedules for Surface Network 1</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S203	497245.090	102969.448	497245.090	102969.448	Required	
S204	497234.234	102978.271	497234.234	102978.271	Required	
S205	497228.486	102972.072	497228.486	102972.072	Required	
S206	497223.750	102967.738	497223.750	102967.738	Required	
S207	497312.255	102985.562	497312.255	102985.562	Required	
S208a	497329.006	103001.639	497329.006	103001.639	Required	
S208	497306.366	102994.246	497306.366	102994.246	Required	
S209	497298.732	102991.483	497298.732	102991.483	Required	
S210	497293.553	102994.493	497293.553	102994.493	Required	
S211	497284.825	103012.313	497284.825	103012.313	Required	
S212	497278.533	103010.781	497278.533	103010.781	Required	
S213	497272.626	103037.562	497272.626	103037.562	Required	
S214	497262.598	103028.061	497262.598	103028.061	Required	
S215	497256.688	103042.178	497256.688	103042.178	Required	
S216	497252.329	103038.184	497252.329	103038.184	Required	
©1982-2020 Innovyze						

RSK LDE					Page 45																																																																																																																	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																																			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by																																																																																																																			
XP Solutions			Network 2020.1.3																																																																																																																			
<u>Manhole Schedules for Surface Network 1</u> <table><tr><th>MH Name</th><th>Manhole Easting (m)</th><th>Manhole Northing (m)</th><th>Intersection Easting (m)</th><th>Intersection Northing (m)</th><th>Manhole Access</th><th>Layout (North)</th></tr><tr><td>S217</td><td>497230.375</td><td>103012.422</td><td>497230.375</td><td>103012.422</td><td>Required</td><td></td></tr><tr><td>S218</td><td>497226.339</td><td>103014.451</td><td>497226.339</td><td>103014.451</td><td>Required</td><td></td></tr><tr><td>S219</td><td>497208.916</td><td>102998.541</td><td>497208.916</td><td>102998.541</td><td>Required</td><td></td></tr><tr><td>S220</td><td>497214.900</td><td>102990.555</td><td>497214.900</td><td>102990.555</td><td>Required</td><td></td></tr><tr><td>S221</td><td>497210.753</td><td>102986.345</td><td>497210.753</td><td>102986.345</td><td>Required</td><td></td></tr><tr><td>S222</td><td>497207.579</td><td>102983.226</td><td>497207.579</td><td>102983.226</td><td>Required</td><td></td></tr><tr><td>S223</td><td>497197.694</td><td>103006.570</td><td>497197.694</td><td>103006.570</td><td>Required</td><td></td></tr><tr><td>S224</td><td>497194.018</td><td>103001.743</td><td>497194.018</td><td>103001.743</td><td>Required</td><td></td></tr><tr><td>S225</td><td>497191.224</td><td>102998.033</td><td>497191.224</td><td>102998.033</td><td>Required</td><td></td></tr><tr><td>S226</td><td>497206.116</td><td>103006.686</td><td>497206.116</td><td>103006.686</td><td>Required</td><td></td></tr><tr><td>S227</td><td>497191.520</td><td>103011.857</td><td>497191.520</td><td>103011.857</td><td>Required</td><td></td></tr><tr><td>S228</td><td>497179.768</td><td>103021.600</td><td>497179.768</td><td>103021.600</td><td>Required</td><td></td></tr><tr><td>S229</td><td>497174.872</td><td>103017.333</td><td>497174.872</td><td>103017.333</td><td>Required</td><td></td></tr><tr><td>S230</td><td>497172.855</td><td>103015.663</td><td>497172.855</td><td>103015.663</td><td>Required</td><td></td></tr><tr><td>S231</td><td>497168.842</td><td>103019.293</td><td>497168.842</td><td>103019.293</td><td>Required</td><td></td></tr></table>							MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)	S217	497230.375	103012.422	497230.375	103012.422	Required		S218	497226.339	103014.451	497226.339	103014.451	Required		S219	497208.916	102998.541	497208.916	102998.541	Required		S220	497214.900	102990.555	497214.900	102990.555	Required		S221	497210.753	102986.345	497210.753	102986.345	Required		S222	497207.579	102983.226	497207.579	102983.226	Required		S223	497197.694	103006.570	497197.694	103006.570	Required		S224	497194.018	103001.743	497194.018	103001.743	Required		S225	497191.224	102998.033	497191.224	102998.033	Required		S226	497206.116	103006.686	497206.116	103006.686	Required		S227	497191.520	103011.857	497191.520	103011.857	Required		S228	497179.768	103021.600	497179.768	103021.600	Required		S229	497174.872	103017.333	497174.872	103017.333	Required		S230	497172.855	103015.663	497172.855	103015.663	Required		S231	497168.842	103019.293	497168.842	103019.293	Required	
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)																																																																																																																
S217	497230.375	103012.422	497230.375	103012.422	Required																																																																																																																	
S218	497226.339	103014.451	497226.339	103014.451	Required																																																																																																																	
S219	497208.916	102998.541	497208.916	102998.541	Required																																																																																																																	
S220	497214.900	102990.555	497214.900	102990.555	Required																																																																																																																	
S221	497210.753	102986.345	497210.753	102986.345	Required																																																																																																																	
S222	497207.579	102983.226	497207.579	102983.226	Required																																																																																																																	
S223	497197.694	103006.570	497197.694	103006.570	Required																																																																																																																	
S224	497194.018	103001.743	497194.018	103001.743	Required																																																																																																																	
S225	497191.224	102998.033	497191.224	102998.033	Required																																																																																																																	
S226	497206.116	103006.686	497206.116	103006.686	Required																																																																																																																	
S227	497191.520	103011.857	497191.520	103011.857	Required																																																																																																																	
S228	497179.768	103021.600	497179.768	103021.600	Required																																																																																																																	
S229	497174.872	103017.333	497174.872	103017.333	Required																																																																																																																	
S230	497172.855	103015.663	497172.855	103015.663	Required																																																																																																																	
S231	497168.842	103019.293	497168.842	103019.293	Required																																																																																																																	
©1982-2020 Innovyze																																																																																																																						

RSK LDE					Page 46	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by			
XP Solutions			Network 2020.1.3			
<u>Manhole Schedules for Surface Network 1</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S232	497152.061	103034.594	497152.061	103034.594	Required	
S233	497147.795	103044.027	497147.795	103044.027	Required	
S234	497231.054	103048.893	497231.054	103048.893	Required	
S235	497216.722	103063.233	497216.722	103063.233	Required	
S236	497215.924	103072.357	497215.924	103072.357	Required	
S237	497210.653	103069.967	497210.653	103069.967	Required	
S238	497218.511	103085.366	497218.511	103085.366	Required	
S239	497212.079	103088.788	497212.079	103088.788	Required	
S240	497201.062	103088.524	497201.062	103088.524	Required	
S241	497190.563	103084.087	497190.563	103084.087	Required	
S242	497161.136	103052.667	497161.136	103052.667	Required	
S243	497155.327	103051.349	497155.327	103051.349	Required	
S244	497147.097	103060.553	497147.097	103060.553	Required	
S245	497142.972	103056.623	497142.972	103056.623	Required	
S246	497140.164	103053.952	497140.164	103053.952	Required	
©1982-2020 Innovyze						

RSK LDE					Page 47																																																		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																				
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by																																																				
XP Solutions			Network 2020.1.3																																																				
<u>Manhole Schedules for Surface Network 1</u> <table><tr><th>MH Name</th><th>Manhole Easting (m)</th><th>Manhole Northing (m)</th><th>Intersection Easting (m)</th><th>Intersection Northing (m)</th><th>Manhole Access</th><th>Layout (North)</th></tr><tr><td>S247</td><td>497146.105</td><td>103068.752</td><td>497146.105</td><td>103068.752</td><td>Required</td><td></td></tr><tr><td>S248</td><td>497135.290</td><td>103066.301</td><td>497135.290</td><td>103066.301</td><td>Required</td><td></td></tr><tr><td>S249</td><td>497113.716</td><td>103072.974</td><td>497113.716</td><td>103072.974</td><td>Required</td><td></td></tr><tr><td>S250</td><td>497112.849</td><td>103081.935</td><td>497112.849</td><td>103081.935</td><td>Required</td><td></td></tr><tr><td>S251</td><td>497103.290</td><td>103082.044</td><td>497103.290</td><td>103082.044</td><td>Required</td><td></td></tr><tr><td>S252</td><td>497098.845</td><td>103082.274</td><td></td><td></td><td>No Entry</td><td></td></tr></table>							MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)	S247	497146.105	103068.752	497146.105	103068.752	Required		S248	497135.290	103066.301	497135.290	103066.301	Required		S249	497113.716	103072.974	497113.716	103072.974	Required		S250	497112.849	103081.935	497112.849	103081.935	Required		S251	497103.290	103082.044	497103.290	103082.044	Required		S252	497098.845	103082.274			No Entry	
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)																																																	
S247	497146.105	103068.752	497146.105	103068.752	Required																																																		
S248	497135.290	103066.301	497135.290	103066.301	Required																																																		
S249	497113.716	103072.974	497113.716	103072.974	Required																																																		
S250	497112.849	103081.935	497112.849	103081.935	Required																																																		
S251	497103.290	103082.044	497103.290	103082.044	Required																																																		
S252	497098.845	103082.274			No Entry																																																		
©1982-2020 Innovyze																																																							

RSK LDE	Page 48
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by
XP Solutions	Network 2020.1.3



PIPELINE SCHEDULES for Surface Network 1

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	150	S1	6.900	5.600	1.150	Open Manhole	1200
1.001	o	150	S2	6.900	6.200	0.550	Open Manhole	1200
1.002	o	150	S3	6.900	6.150	0.600	Open Manhole	1200
1.003	o	150	S4	7.180	5.910	1.120	Open Manhole	1200
1.004	o	300	S5	6.900	5.250	1.350	Open Manhole	1200
2.000	o	150	S6	7.300	6.325	0.825	Open Manhole	1200
2.001	o	150	S7	7.200	5.955	1.095	Open Manhole	1200
2.002	o	150	S8	7.261	5.905	1.206	Open Manhole	1200
2.003	o	150	S9	7.083	5.830	1.103	Open Manhole	1200
2.004	o	150	S10	6.809	5.560	1.099	Open Manhole	1200
2.005	o	150	S11	6.900	5.520	1.230	Open Manhole	1200
1.005	o	300	S12	6.900	5.250	1.350	Open Manhole	1200
3.000	o	150	S13a	7.019	6.005	0.864	Open Manhole	1050
4.000	o	150	S13b	7.275	5.925	1.200	Open Manhole	1050
3.001	o	150	S13	7.227	5.880	1.197	Open Manhole	1200
3.002	o	150	S14	7.280	5.820	1.310	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	79.638	0.0	S2	6.900	5.600	1.150	Open Manhole	1200
1.001	3.896	77.9	S3	6.900	6.150	0.600	Open Manhole	1200
1.002	31.170	129.9	S4	7.180	5.910	1.120	Open Manhole	1200
1.003	7.034	100.5	S5	6.900	5.840	0.910	Open Manhole	1200
1.004	34.423	0.0	S12	6.900	5.250	1.350	Open Manhole	1200
2.000	48.100	130.0	S7	7.200	5.955	1.095	Open Manhole	1200
2.001	7.174	143.5	S8	7.261	5.905	1.206	Open Manhole	1200
2.002	9.200	122.7	S9	7.083	5.830	1.103	Open Manhole	1200
2.003	32.873	121.8	S10	6.809	5.560	1.099	Open Manhole	1200
2.004	2.949	73.7	S11	6.900	5.520	1.230	Open Manhole	1200
2.005	2.131	213.1	S12	6.900	5.510	1.240	Open Manhole	1200
1.005	49.746	497.5	S32	6.650	5.150	1.200	Open Manhole	1200
3.000	14.970	119.8	S13	7.227	5.880	1.197	Open Manhole	1200
4.000	5.293	117.6	S13	7.227	5.880	1.197	Open Manhole	1200
3.001	7.158	119.3	S14	7.280	5.820	1.310	Open Manhole	1200
3.002	5.040	63.0	S15	7.290	5.740	1.400	Open Manhole	1200

RSK LDE							Page 49																																																																																																																																																																																																																																																																																																	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT				Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																																																																																																																																																																																																																				
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...				Designed by AMuthusami Checked by																																																																																																																																																																																																																																																																																																				
XP Solutions				Network 2020.1.3																																																																																																																																																																																																																																																																																																				
<u>PIPELINE SCHEDULES for Surface Network 1</u> <u>Upstream Manhole</u> <table><thead><tr><th>PN</th><th>Hyd Sect</th><th>Diam (mm)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr></thead><tbody><tr><td>3.003</td><td>o</td><td>150</td><td>S15</td><td>7.290</td><td>5.740</td><td>1.400</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.004</td><td>o</td><td>150</td><td>S16</td><td>7.277</td><td>5.700</td><td>1.427</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.005</td><td>o</td><td>150</td><td>S17</td><td>7.378</td><td>6.115</td><td>1.113</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.006</td><td>o</td><td>150</td><td>S18</td><td>7.262</td><td>6.025</td><td>1.087</td><td>Open Manhole</td><td>1200</td></tr><tr><td>5.000</td><td>o</td><td>150</td><td>S19</td><td>7.490</td><td>6.100</td><td>1.240</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.007</td><td>o</td><td>150</td><td>S20</td><td>7.328</td><td>5.975</td><td>1.203</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.008</td><td>o</td><td>150</td><td>S21</td><td>7.116</td><td>5.880</td><td>1.086</td><td>Open Manhole</td><td>1200</td></tr><tr><td>6.000</td><td>o</td><td>150</td><td>S255</td><td>7.100</td><td>5.620</td><td>1.330</td><td>Open Manhole</td><td>1200</td></tr><tr><td>6.001</td><td>o</td><td>150</td><td>S254</td><td>7.104</td><td>5.620</td><td>1.334</td><td>Open Manhole</td><td>1200</td></tr><tr><td>6.002</td><td>o</td><td>225</td><td>S22</td><td>7.425</td><td>5.620</td><td>1.580</td><td>Open Manhole</td><td>1200</td></tr><tr><td>7.000</td><td>o</td><td>150</td><td>S23</td><td>7.150</td><td>5.854</td><td>1.146</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.009</td><td>o</td><td>300</td><td>S24</td><td>6.982</td><td>5.433</td><td>1.249</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.010</td><td>o</td><td>300</td><td>S26</td><td>6.908</td><td>5.410</td><td>1.198</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.011</td><td>o</td><td>300</td><td>S27</td><td>6.806</td><td>5.382</td><td>1.124</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.012</td><td>o</td><td>300</td><td>S28</td><td>6.535</td><td>5.282</td><td>0.953</td><td>Open Manhole</td><td>1200</td></tr></tbody></table> <u>Downstream Manhole</u> <table><thead><tr><th>PN</th><th>Length (m)</th><th>Slope (1:X)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr></thead><tbody><tr><td>3.003</td><td>4.332</td><td>108.3</td><td>S16</td><td>7.277</td><td>5.700</td><td>1.427</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.004</td><td>23.754</td><td>0.0</td><td>S17</td><td>7.378</td><td>5.700</td><td>1.528</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.005</td><td>11.849</td><td>131.7</td><td>S18</td><td>7.262</td><td>6.025</td><td>1.087</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.006</td><td>7.279</td><td>145.6</td><td>S20</td><td>7.328</td><td>5.975</td><td>1.203</td><td>Open Manhole</td><td>1200</td></tr><tr><td>5.000</td><td>14.965</td><td>119.7</td><td>S20</td><td>7.328</td><td>5.975</td><td>1.203</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.007</td><td>13.786</td><td>145.1</td><td>S21</td><td>7.116</td><td>5.880</td><td>1.086</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.008</td><td>9.626</td><td>32.4</td><td>S24</td><td>6.982</td><td>5.583</td><td>1.249</td><td>Open Manhole</td><td>1200</td></tr><tr><td>6.000</td><td>3.524</td><td>0.0</td><td>S254</td><td>7.104</td><td>5.620</td><td>1.334</td><td>Open Manhole</td><td>1200</td></tr><tr><td>6.001</td><td>3.983</td><td>0.0</td><td>S22</td><td>7.425</td><td>5.620</td><td>1.655</td><td>Open Manhole</td><td>1200</td></tr><tr><td>6.002</td><td>24.147</td><td>215.6</td><td>S24</td><td>6.982</td><td>5.508</td><td>1.249</td><td>Open Manhole</td><td>1200</td></tr><tr><td>7.000</td><td>7.481</td><td>27.6</td><td>S24</td><td>6.982</td><td>5.583</td><td>1.249</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.009</td><td>6.683</td><td>290.6</td><td>S26</td><td>6.908</td><td>5.410</td><td>1.198</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.010</td><td>8.363</td><td>298.7</td><td>S27</td><td>6.806</td><td>5.382</td><td>1.124</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.011</td><td>29.488</td><td>294.9</td><td>S28</td><td>6.535</td><td>5.282</td><td>0.953</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.012</td><td>18.288</td><td>295.0</td><td>S30</td><td>6.481</td><td>5.220</td><td>0.961</td><td>Open Manhole</td><td>1200</td></tr></tbody></table>									PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	3.003	o	150	S15	7.290	5.740	1.400	Open Manhole	1200	3.004	o	150	S16	7.277	5.700	1.427	Open Manhole	1200	3.005	o	150	S17	7.378	6.115	1.113	Open Manhole	1200	3.006	o	150	S18	7.262	6.025	1.087	Open Manhole	1200	5.000	o	150	S19	7.490	6.100	1.240	Open Manhole	1200	3.007	o	150	S20	7.328	5.975	1.203	Open Manhole	1200	3.008	o	150	S21	7.116	5.880	1.086	Open Manhole	1200	6.000	o	150	S255	7.100	5.620	1.330	Open Manhole	1200	6.001	o	150	S254	7.104	5.620	1.334	Open Manhole	1200	6.002	o	225	S22	7.425	5.620	1.580	Open Manhole	1200	7.000	o	150	S23	7.150	5.854	1.146	Open Manhole	1200	3.009	o	300	S24	6.982	5.433	1.249	Open Manhole	1200	3.010	o	300	S26	6.908	5.410	1.198	Open Manhole	1200	3.011	o	300	S27	6.806	5.382	1.124	Open Manhole	1200	3.012	o	300	S28	6.535	5.282	0.953	Open Manhole	1200	PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	3.003	4.332	108.3	S16	7.277	5.700	1.427	Open Manhole	1200	3.004	23.754	0.0	S17	7.378	5.700	1.528	Open Manhole	1200	3.005	11.849	131.7	S18	7.262	6.025	1.087	Open Manhole	1200	3.006	7.279	145.6	S20	7.328	5.975	1.203	Open Manhole	1200	5.000	14.965	119.7	S20	7.328	5.975	1.203	Open Manhole	1200	3.007	13.786	145.1	S21	7.116	5.880	1.086	Open Manhole	1200	3.008	9.626	32.4	S24	6.982	5.583	1.249	Open Manhole	1200	6.000	3.524	0.0	S254	7.104	5.620	1.334	Open Manhole	1200	6.001	3.983	0.0	S22	7.425	5.620	1.655	Open Manhole	1200	6.002	24.147	215.6	S24	6.982	5.508	1.249	Open Manhole	1200	7.000	7.481	27.6	S24	6.982	5.583	1.249	Open Manhole	1200	3.009	6.683	290.6	S26	6.908	5.410	1.198	Open Manhole	1200	3.010	8.363	298.7	S27	6.806	5.382	1.124	Open Manhole	1200	3.011	29.488	294.9	S28	6.535	5.282	0.953	Open Manhole	1200	3.012	18.288	295.0	S30	6.481	5.220	0.961	Open Manhole	1200
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																																																																																																																																																																																																
3.003	o	150	S15	7.290	5.740	1.400	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.004	o	150	S16	7.277	5.700	1.427	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.005	o	150	S17	7.378	6.115	1.113	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.006	o	150	S18	7.262	6.025	1.087	Open Manhole	1200																																																																																																																																																																																																																																																																																																
5.000	o	150	S19	7.490	6.100	1.240	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.007	o	150	S20	7.328	5.975	1.203	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.008	o	150	S21	7.116	5.880	1.086	Open Manhole	1200																																																																																																																																																																																																																																																																																																
6.000	o	150	S255	7.100	5.620	1.330	Open Manhole	1200																																																																																																																																																																																																																																																																																																
6.001	o	150	S254	7.104	5.620	1.334	Open Manhole	1200																																																																																																																																																																																																																																																																																																
6.002	o	225	S22	7.425	5.620	1.580	Open Manhole	1200																																																																																																																																																																																																																																																																																																
7.000	o	150	S23	7.150	5.854	1.146	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.009	o	300	S24	6.982	5.433	1.249	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.010	o	300	S26	6.908	5.410	1.198	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.011	o	300	S27	6.806	5.382	1.124	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.012	o	300	S28	6.535	5.282	0.953	Open Manhole	1200																																																																																																																																																																																																																																																																																																
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																																																																																																																																																																																																
3.003	4.332	108.3	S16	7.277	5.700	1.427	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.004	23.754	0.0	S17	7.378	5.700	1.528	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.005	11.849	131.7	S18	7.262	6.025	1.087	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.006	7.279	145.6	S20	7.328	5.975	1.203	Open Manhole	1200																																																																																																																																																																																																																																																																																																
5.000	14.965	119.7	S20	7.328	5.975	1.203	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.007	13.786	145.1	S21	7.116	5.880	1.086	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.008	9.626	32.4	S24	6.982	5.583	1.249	Open Manhole	1200																																																																																																																																																																																																																																																																																																
6.000	3.524	0.0	S254	7.104	5.620	1.334	Open Manhole	1200																																																																																																																																																																																																																																																																																																
6.001	3.983	0.0	S22	7.425	5.620	1.655	Open Manhole	1200																																																																																																																																																																																																																																																																																																
6.002	24.147	215.6	S24	6.982	5.508	1.249	Open Manhole	1200																																																																																																																																																																																																																																																																																																
7.000	7.481	27.6	S24	6.982	5.583	1.249	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.009	6.683	290.6	S26	6.908	5.410	1.198	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.010	8.363	298.7	S27	6.806	5.382	1.124	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.011	29.488	294.9	S28	6.535	5.282	0.953	Open Manhole	1200																																																																																																																																																																																																																																																																																																
3.012	18.288	295.0	S30	6.481	5.220	0.961	Open Manhole	1200																																																																																																																																																																																																																																																																																																
©1982-2020 Innovyze																																																																																																																																																																																																																																																																																																								

RSK LDE		Page 50																																																																																																																																																																																																																																																																															
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																																																																																																																																																																																															
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...		Designed by AMuthusami Checked by																																																																																																																																																																																																																																																																															
XP Solutions		Network 2020.1.3																																																																																																																																																																																																																																																																															
PIPELINE SCHEDULES for Surface Network 1 Upstream Manhole <table><thead><tr><th>PN</th><th>Hyd Sect</th><th>Diam (mm)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr></thead><tbody><tr><td>8.000</td><td>o</td><td>150</td><td>S29</td><td>6.571</td><td>5.457</td><td>0.964</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.013</td><td>o</td><td>300</td><td>S30</td><td>6.481</td><td>5.220</td><td>0.961</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.014</td><td>o</td><td>300</td><td>S31</td><td>6.514</td><td>5.180</td><td>1.034</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.006</td><td>o</td><td>300</td><td>S32</td><td>6.650</td><td>5.150</td><td>1.200</td><td>Open Manhole</td><td>1200</td></tr><tr><td>9.000</td><td>o</td><td>150</td><td>S33</td><td>6.400</td><td>5.460</td><td>0.790</td><td>Open Manhole</td><td>1200</td></tr><tr><td>10.000</td><td>o</td><td>150</td><td>S34</td><td>6.350</td><td>5.350</td><td>0.850</td><td>Open Manhole</td><td>1200</td></tr><tr><td>9.001</td><td>o</td><td>150</td><td>S35</td><td>6.350</td><td>5.290</td><td>0.910</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.007</td><td>o</td><td>300</td><td>S36</td><td>6.900</td><td>5.120</td><td>1.480</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.008</td><td>o</td><td>300</td><td>S37</td><td>6.400</td><td>5.120</td><td>0.980</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.009</td><td>o</td><td>150</td><td>S38</td><td>6.400</td><td>5.120</td><td>1.130</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.010</td><td>o</td><td>150</td><td>S39</td><td>6.200</td><td>4.960</td><td>1.090</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.000</td><td>o</td><td>150</td><td>S112</td><td>7.000</td><td>6.050</td><td>0.800</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.001</td><td>o</td><td>150</td><td>S111</td><td>6.800</td><td>5.900</td><td>0.750</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.002</td><td>o</td><td>150</td><td>S40</td><td>6.800</td><td>5.800</td><td>0.850</td><td>Open Manhole</td><td>1200</td></tr></tbody></table> Downstream Manhole <table><thead><tr><th>PN</th><th>Length (m)</th><th>Slope (1:X)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr></thead><tbody><tr><td>8.000</td><td>12.139</td><td>139.5</td><td>S30</td><td>6.481</td><td>5.370</td><td>0.961</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.013</td><td>8.479</td><td>212.0</td><td>S31</td><td>6.514</td><td>5.180</td><td>1.034</td><td>Open Manhole</td><td>1200</td></tr><tr><td>3.014</td><td>4.885</td><td>162.8</td><td>S32</td><td>6.650</td><td>5.150</td><td>1.200</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.006</td><td>65.460</td><td>2182.0</td><td>S36</td><td>6.900</td><td>5.120</td><td>1.480</td><td>Open Manhole</td><td>1200</td></tr><tr><td>9.000</td><td>22.407</td><td>131.8</td><td>S35</td><td>6.350</td><td>5.290</td><td>0.910</td><td>Open Manhole</td><td>1200</td></tr><tr><td>10.000</td><td>8.117</td><td>135.3</td><td>S35</td><td>6.350</td><td>5.290</td><td>0.910</td><td>Open Manhole</td><td>1200</td></tr><tr><td>9.001</td><td>2.047</td><td>102.4</td><td>S36</td><td>6.900</td><td>5.270</td><td>1.480</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.007</td><td>11.501</td><td>0.0</td><td>S37</td><td>6.400</td><td>5.120</td><td>0.980</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.008</td><td>2.310</td><td>0.0</td><td>S38</td><td>6.400</td><td>5.120</td><td>0.980</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.009</td><td>15.488</td><td>96.8</td><td>S39</td><td>6.200</td><td>4.960</td><td>1.090</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.010</td><td>13.870</td><td>126.1</td><td>S48</td><td>6.450</td><td>4.850</td><td>1.450</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.000</td><td>19.391</td><td>129.3</td><td>S111</td><td>6.800</td><td>5.900</td><td>0.750</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.001</td><td>12.727</td><td>127.3</td><td>S40</td><td>6.800</td><td>5.800</td><td>0.850</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.002</td><td>21.907</td><td>182.6</td><td>S41</td><td>6.900</td><td>5.680</td><td>1.070</td><td>Open Manhole</td><td>1200</td></tr></tbody></table>				PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	8.000	o	150	S29	6.571	5.457	0.964	Open Manhole	1200	3.013	o	300	S30	6.481	5.220	0.961	Open Manhole	1200	3.014	o	300	S31	6.514	5.180	1.034	Open Manhole	1200	1.006	o	300	S32	6.650	5.150	1.200	Open Manhole	1200	9.000	o	150	S33	6.400	5.460	0.790	Open Manhole	1200	10.000	o	150	S34	6.350	5.350	0.850	Open Manhole	1200	9.001	o	150	S35	6.350	5.290	0.910	Open Manhole	1200	1.007	o	300	S36	6.900	5.120	1.480	Open Manhole	1200	1.008	o	300	S37	6.400	5.120	0.980	Open Manhole	1200	1.009	o	150	S38	6.400	5.120	1.130	Open Manhole	1200	1.010	o	150	S39	6.200	4.960	1.090	Open Manhole	1200	11.000	o	150	S112	7.000	6.050	0.800	Open Manhole	1200	11.001	o	150	S111	6.800	5.900	0.750	Open Manhole	1200	11.002	o	150	S40	6.800	5.800	0.850	Open Manhole	1200	PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	8.000	12.139	139.5	S30	6.481	5.370	0.961	Open Manhole	1200	3.013	8.479	212.0	S31	6.514	5.180	1.034	Open Manhole	1200	3.014	4.885	162.8	S32	6.650	5.150	1.200	Open Manhole	1200	1.006	65.460	2182.0	S36	6.900	5.120	1.480	Open Manhole	1200	9.000	22.407	131.8	S35	6.350	5.290	0.910	Open Manhole	1200	10.000	8.117	135.3	S35	6.350	5.290	0.910	Open Manhole	1200	9.001	2.047	102.4	S36	6.900	5.270	1.480	Open Manhole	1200	1.007	11.501	0.0	S37	6.400	5.120	0.980	Open Manhole	1200	1.008	2.310	0.0	S38	6.400	5.120	0.980	Open Manhole	1200	1.009	15.488	96.8	S39	6.200	4.960	1.090	Open Manhole	1200	1.010	13.870	126.1	S48	6.450	4.850	1.450	Open Manhole	1200	11.000	19.391	129.3	S111	6.800	5.900	0.750	Open Manhole	1200	11.001	12.727	127.3	S40	6.800	5.800	0.850	Open Manhole	1200	11.002	21.907	182.6	S41	6.900	5.680	1.070	Open Manhole	1200
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																																																																																																																																																																									
8.000	o	150	S29	6.571	5.457	0.964	Open Manhole	1200																																																																																																																																																																																																																																																																									
3.013	o	300	S30	6.481	5.220	0.961	Open Manhole	1200																																																																																																																																																																																																																																																																									
3.014	o	300	S31	6.514	5.180	1.034	Open Manhole	1200																																																																																																																																																																																																																																																																									
1.006	o	300	S32	6.650	5.150	1.200	Open Manhole	1200																																																																																																																																																																																																																																																																									
9.000	o	150	S33	6.400	5.460	0.790	Open Manhole	1200																																																																																																																																																																																																																																																																									
10.000	o	150	S34	6.350	5.350	0.850	Open Manhole	1200																																																																																																																																																																																																																																																																									
9.001	o	150	S35	6.350	5.290	0.910	Open Manhole	1200																																																																																																																																																																																																																																																																									
1.007	o	300	S36	6.900	5.120	1.480	Open Manhole	1200																																																																																																																																																																																																																																																																									
1.008	o	300	S37	6.400	5.120	0.980	Open Manhole	1200																																																																																																																																																																																																																																																																									
1.009	o	150	S38	6.400	5.120	1.130	Open Manhole	1200																																																																																																																																																																																																																																																																									
1.010	o	150	S39	6.200	4.960	1.090	Open Manhole	1200																																																																																																																																																																																																																																																																									
11.000	o	150	S112	7.000	6.050	0.800	Open Manhole	1200																																																																																																																																																																																																																																																																									
11.001	o	150	S111	6.800	5.900	0.750	Open Manhole	1200																																																																																																																																																																																																																																																																									
11.002	o	150	S40	6.800	5.800	0.850	Open Manhole	1200																																																																																																																																																																																																																																																																									
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																																																																																																																																																																									
8.000	12.139	139.5	S30	6.481	5.370	0.961	Open Manhole	1200																																																																																																																																																																																																																																																																									
3.013	8.479	212.0	S31	6.514	5.180	1.034	Open Manhole	1200																																																																																																																																																																																																																																																																									
3.014	4.885	162.8	S32	6.650	5.150	1.200	Open Manhole	1200																																																																																																																																																																																																																																																																									
1.006	65.460	2182.0	S36	6.900	5.120	1.480	Open Manhole	1200																																																																																																																																																																																																																																																																									
9.000	22.407	131.8	S35	6.350	5.290	0.910	Open Manhole	1200																																																																																																																																																																																																																																																																									
10.000	8.117	135.3	S35	6.350	5.290	0.910	Open Manhole	1200																																																																																																																																																																																																																																																																									
9.001	2.047	102.4	S36	6.900	5.270	1.480	Open Manhole	1200																																																																																																																																																																																																																																																																									
1.007	11.501	0.0	S37	6.400	5.120	0.980	Open Manhole	1200																																																																																																																																																																																																																																																																									
1.008	2.310	0.0	S38	6.400	5.120	0.980	Open Manhole	1200																																																																																																																																																																																																																																																																									
1.009	15.488	96.8	S39	6.200	4.960	1.090	Open Manhole	1200																																																																																																																																																																																																																																																																									
1.010	13.870	126.1	S48	6.450	4.850	1.450	Open Manhole	1200																																																																																																																																																																																																																																																																									
11.000	19.391	129.3	S111	6.800	5.900	0.750	Open Manhole	1200																																																																																																																																																																																																																																																																									
11.001	12.727	127.3	S40	6.800	5.800	0.850	Open Manhole	1200																																																																																																																																																																																																																																																																									
11.002	21.907	182.6	S41	6.900	5.680	1.070	Open Manhole	1200																																																																																																																																																																																																																																																																									
©1982-2020 Innovyze																																																																																																																																																																																																																																																																																	

RSK LDE		Page 51																																																																																																																																																																																																																																																																																																																			
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																																																																																																																																																																																																																																			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...		Designed by AMuthusami Checked by																																																																																																																																																																																																																																																																																																																			
XP Solutions		Network 2020.1.3																																																																																																																																																																																																																																																																																																																			
PIPELINE SCHEDULES for Surface Network 1 Upstream Manhole <table><thead><tr><th>PN</th><th>Hyd Sect</th><th>Diam (mm)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr></thead><tbody><tr><td>11.003</td><td>o</td><td>150</td><td>S41</td><td>6.900</td><td>5.680</td><td>1.070</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.004</td><td>o</td><td>150</td><td>S42</td><td>6.900</td><td>5.610</td><td>1.140</td><td>Open Manhole</td><td>1200</td></tr><tr><td>12.000</td><td>o</td><td>150</td><td>S257</td><td>6.790</td><td>5.500</td><td>1.140</td><td>Open Manhole</td><td>1050</td></tr><tr><td>12.001</td><td>o</td><td>150</td><td>S256</td><td>6.777</td><td>5.360</td><td>1.267</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.005</td><td>o</td><td>150</td><td>S43</td><td>6.618</td><td>5.260</td><td>1.208</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.006</td><td>o</td><td>150</td><td>S44</td><td>6.482</td><td>5.150</td><td>1.182</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.007</td><td>o</td><td>150</td><td>S45</td><td>6.293</td><td>5.000</td><td>1.143</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.008</td><td>o</td><td>150</td><td>S46</td><td>6.096</td><td>4.950</td><td>0.996</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.009</td><td>o</td><td>150</td><td>S47</td><td>6.095</td><td>4.900</td><td>1.045</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.011</td><td>o</td><td>150</td><td>S48</td><td>6.450</td><td>4.850</td><td>1.450</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.012</td><td>o</td><td>225</td><td>S49</td><td>5.800</td><td>4.800</td><td>0.775</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.013</td><td>o</td><td>225</td><td>S50</td><td>5.800</td><td>4.714</td><td>0.861</td><td>Open Manhole</td><td>1200</td></tr><tr><td>13.000</td><td>o</td><td>150</td><td>S51</td><td>6.150</td><td>5.250</td><td>0.750</td><td>Open Manhole</td><td>1200</td></tr><tr><td>13.001</td><td>o</td><td>150</td><td>S52</td><td>6.000</td><td>5.060</td><td>0.790</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.014</td><td>o</td><td>225</td><td>S53</td><td>6.000</td><td>4.668</td><td>1.107</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.015</td><td>o</td><td>225</td><td>S54</td><td>6.000</td><td>4.542</td><td>1.233</td><td>Open Manhole</td><td>1200</td></tr></tbody></table> Downstream Manhole <table><thead><tr><th>PN</th><th>Length (m)</th><th>Slope (1:X)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr></thead><tbody><tr><td>11.003</td><td>6.116</td><td>87.4</td><td>S42</td><td>6.900</td><td>5.610</td><td>1.140</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.004</td><td>20.997</td><td>60.0</td><td>S43</td><td>6.618</td><td>5.260</td><td>1.208</td><td>Open Manhole</td><td>1200</td></tr><tr><td>12.000</td><td>19.092</td><td>136.4</td><td>S256</td><td>6.777</td><td>5.360</td><td>1.267</td><td>Open Manhole</td><td>1200</td></tr><tr><td>12.001</td><td>13.607</td><td>136.1</td><td>S43</td><td>6.618</td><td>5.260</td><td>1.208</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.005</td><td>11.443</td><td>104.0</td><td>S44</td><td>6.482</td><td>5.150</td><td>1.182</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.006</td><td>20.944</td><td>139.6</td><td>S45</td><td>6.293</td><td>5.000</td><td>1.143</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.007</td><td>27.264</td><td>545.3</td><td>S46</td><td>6.096</td><td>4.950</td><td>0.996</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.008</td><td>8.359</td><td>167.2</td><td>S47</td><td>6.095</td><td>4.900</td><td>1.045</td><td>Open Manhole</td><td>1200</td></tr><tr><td>11.009</td><td>8.609</td><td>172.2</td><td>S48</td><td>6.450</td><td>4.850</td><td>1.450</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.011</td><td>5.898</td><td>118.0</td><td>S49</td><td>5.800</td><td>4.800</td><td>0.850</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.012</td><td>17.211</td><td>200.1</td><td>S50</td><td>5.800</td><td>4.714</td><td>0.861</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.013</td><td>9.176</td><td>199.5</td><td>S53</td><td>6.000</td><td>4.668</td><td>1.107</td><td>Open Manhole</td><td>1200</td></tr><tr><td>13.000</td><td>24.977</td><td>131.5</td><td>S52</td><td>6.000</td><td>5.060</td><td>0.790</td><td>Open Manhole</td><td>1200</td></tr><tr><td>13.001</td><td>5.196</td><td>0.0</td><td>S53</td><td>6.000</td><td>5.060</td><td>0.790</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.014</td><td>33.907</td><td>269.1</td><td>S54</td><td>6.000</td><td>4.542</td><td>1.233</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.015</td><td>27.240</td><td>143.4</td><td>S55</td><td>5.800</td><td>4.352</td><td>1.223</td><td>Open Manhole</td><td>1200</td></tr></tbody></table>				PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	11.003	o	150	S41	6.900	5.680	1.070	Open Manhole	1200	11.004	o	150	S42	6.900	5.610	1.140	Open Manhole	1200	12.000	o	150	S257	6.790	5.500	1.140	Open Manhole	1050	12.001	o	150	S256	6.777	5.360	1.267	Open Manhole	1200	11.005	o	150	S43	6.618	5.260	1.208	Open Manhole	1200	11.006	o	150	S44	6.482	5.150	1.182	Open Manhole	1200	11.007	o	150	S45	6.293	5.000	1.143	Open Manhole	1200	11.008	o	150	S46	6.096	4.950	0.996	Open Manhole	1200	11.009	o	150	S47	6.095	4.900	1.045	Open Manhole	1200	1.011	o	150	S48	6.450	4.850	1.450	Open Manhole	1200	1.012	o	225	S49	5.800	4.800	0.775	Open Manhole	1200	1.013	o	225	S50	5.800	4.714	0.861	Open Manhole	1200	13.000	o	150	S51	6.150	5.250	0.750	Open Manhole	1200	13.001	o	150	S52	6.000	5.060	0.790	Open Manhole	1200	1.014	o	225	S53	6.000	4.668	1.107	Open Manhole	1200	1.015	o	225	S54	6.000	4.542	1.233	Open Manhole	1200	PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	11.003	6.116	87.4	S42	6.900	5.610	1.140	Open Manhole	1200	11.004	20.997	60.0	S43	6.618	5.260	1.208	Open Manhole	1200	12.000	19.092	136.4	S256	6.777	5.360	1.267	Open Manhole	1200	12.001	13.607	136.1	S43	6.618	5.260	1.208	Open Manhole	1200	11.005	11.443	104.0	S44	6.482	5.150	1.182	Open Manhole	1200	11.006	20.944	139.6	S45	6.293	5.000	1.143	Open Manhole	1200	11.007	27.264	545.3	S46	6.096	4.950	0.996	Open Manhole	1200	11.008	8.359	167.2	S47	6.095	4.900	1.045	Open Manhole	1200	11.009	8.609	172.2	S48	6.450	4.850	1.450	Open Manhole	1200	1.011	5.898	118.0	S49	5.800	4.800	0.850	Open Manhole	1200	1.012	17.211	200.1	S50	5.800	4.714	0.861	Open Manhole	1200	1.013	9.176	199.5	S53	6.000	4.668	1.107	Open Manhole	1200	13.000	24.977	131.5	S52	6.000	5.060	0.790	Open Manhole	1200	13.001	5.196	0.0	S53	6.000	5.060	0.790	Open Manhole	1200	1.014	33.907	269.1	S54	6.000	4.542	1.233	Open Manhole	1200	1.015	27.240	143.4	S55	5.800	4.352	1.223	Open Manhole	1200
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																																																																																																																																																																																																													
11.003	o	150	S41	6.900	5.680	1.070	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
11.004	o	150	S42	6.900	5.610	1.140	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
12.000	o	150	S257	6.790	5.500	1.140	Open Manhole	1050																																																																																																																																																																																																																																																																																																													
12.001	o	150	S256	6.777	5.360	1.267	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
11.005	o	150	S43	6.618	5.260	1.208	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
11.006	o	150	S44	6.482	5.150	1.182	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
11.007	o	150	S45	6.293	5.000	1.143	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
11.008	o	150	S46	6.096	4.950	0.996	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
11.009	o	150	S47	6.095	4.900	1.045	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
1.011	o	150	S48	6.450	4.850	1.450	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
1.012	o	225	S49	5.800	4.800	0.775	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
1.013	o	225	S50	5.800	4.714	0.861	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
13.000	o	150	S51	6.150	5.250	0.750	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
13.001	o	150	S52	6.000	5.060	0.790	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
1.014	o	225	S53	6.000	4.668	1.107	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
1.015	o	225	S54	6.000	4.542	1.233	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																																																																																																																																																																																																													
11.003	6.116	87.4	S42	6.900	5.610	1.140	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
11.004	20.997	60.0	S43	6.618	5.260	1.208	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
12.000	19.092	136.4	S256	6.777	5.360	1.267	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
12.001	13.607	136.1	S43	6.618	5.260	1.208	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
11.005	11.443	104.0	S44	6.482	5.150	1.182	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
11.006	20.944	139.6	S45	6.293	5.000	1.143	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
11.007	27.264	545.3	S46	6.096	4.950	0.996	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
11.008	8.359	167.2	S47	6.095	4.900	1.045	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
11.009	8.609	172.2	S48	6.450	4.850	1.450	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
1.011	5.898	118.0	S49	5.800	4.800	0.850	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
1.012	17.211	200.1	S50	5.800	4.714	0.861	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
1.013	9.176	199.5	S53	6.000	4.668	1.107	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
13.000	24.977	131.5	S52	6.000	5.060	0.790	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
13.001	5.196	0.0	S53	6.000	5.060	0.790	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
1.014	33.907	269.1	S54	6.000	4.542	1.233	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
1.015	27.240	143.4	S55	5.800	4.352	1.223	Open Manhole	1200																																																																																																																																																																																																																																																																																																													
©1982-2020 Innovyze																																																																																																																																																																																																																																																																																																																					

RSK LDE		Page 52																																																																																																																																																																																																																																																																																																	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																																																																																																																																																																																																																	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...		Designed by AMuthusami Checked by																																																																																																																																																																																																																																																																																																	
XP Solutions		Network 2020.1.3																																																																																																																																																																																																																																																																																																	
PIPELINE SCHEDULES for Surface Network 1 Upstream Manhole <table><thead><tr><th>PN</th><th>Hyd Sect</th><th>Diam (mm)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr></thead><tbody><tr><td>1.016</td><td>o</td><td>225</td><td>S55</td><td>5.800</td><td>4.352</td><td>1.223</td><td>Open Manhole</td><td>1200</td></tr><tr><td>14.000</td><td>o</td><td>150</td><td>S56a</td><td>6.462</td><td>5.115</td><td>1.197</td><td>Open Manhole</td><td>1050</td></tr><tr><td>14.001</td><td>o</td><td>150</td><td>S56</td><td>6.134</td><td>4.790</td><td>1.194</td><td>Open Manhole</td><td>1200</td></tr><tr><td>14.002</td><td>o</td><td>150</td><td>S57</td><td>5.996</td><td>4.650</td><td>1.196</td><td>Open Manhole</td><td>1200</td></tr><tr><td>14.003</td><td>o</td><td>150</td><td>S58</td><td>5.916</td><td>4.560</td><td>1.206</td><td>Open Manhole</td><td>1200</td></tr><tr><td>14.004</td><td>o</td><td>150</td><td>S59</td><td>5.807</td><td>4.450</td><td>1.207</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.017</td><td>o</td><td>300</td><td>S60</td><td>5.750</td><td>4.250</td><td>1.200</td><td>Open Manhole</td><td>1200</td></tr><tr><td>15.000</td><td>o</td><td>150</td><td>S61</td><td>6.975</td><td>6.185</td><td>0.640</td><td>Open Manhole</td><td>1200</td></tr><tr><td>16.000</td><td>o</td><td>150</td><td>S62</td><td>6.900</td><td>5.990</td><td>0.760</td><td>Open Manhole</td><td>1200</td></tr><tr><td>15.001</td><td>o</td><td>150</td><td>S63</td><td>6.900</td><td>5.710</td><td>1.040</td><td>Open Manhole</td><td>1200</td></tr><tr><td>15.002</td><td>o</td><td>150</td><td>S64</td><td>6.450</td><td>5.510</td><td>0.790</td><td>Open Manhole</td><td>1200</td></tr><tr><td>15.003</td><td>o</td><td>300</td><td>S65</td><td>6.574</td><td>5.030</td><td>1.244</td><td>Open Manhole</td><td>1200</td></tr><tr><td>15.004</td><td>o</td><td>300</td><td>S66</td><td>6.237</td><td>4.740</td><td>1.197</td><td>Open Manhole</td><td>1200</td></tr><tr><td>17.000</td><td>o</td><td>150</td><td>S67</td><td>6.750</td><td>4.960</td><td>1.640</td><td>Open Manhole</td><td>1200</td></tr><tr><td>17.001</td><td>o</td><td>150</td><td>S68</td><td>6.160</td><td>4.800</td><td>1.210</td><td>Open Manhole</td><td>1200</td></tr></tbody></table> Downstream Manhole <table><thead><tr><th>PN</th><th>Length (m)</th><th>Slope (1:X)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr></thead><tbody><tr><td>1.016</td><td>12.467</td><td>122.2</td><td>S60</td><td>5.750</td><td>4.250</td><td>1.275</td><td>Open Manhole</td><td>1200</td></tr><tr><td>14.000</td><td>33.124</td><td>101.9</td><td>S56</td><td>6.134</td><td>4.790</td><td>1.194</td><td>Open Manhole</td><td>1200</td></tr><tr><td>14.001</td><td>12.825</td><td>91.6</td><td>S57</td><td>5.996</td><td>4.650</td><td>1.196</td><td>Open Manhole</td><td>1200</td></tr><tr><td>14.002</td><td>8.557</td><td>95.1</td><td>S58</td><td>5.916</td><td>4.560</td><td>1.206</td><td>Open Manhole</td><td>1200</td></tr><tr><td>14.003</td><td>12.946</td><td>117.7</td><td>S59</td><td>5.807</td><td>4.450</td><td>1.207</td><td>Open Manhole</td><td>1200</td></tr><tr><td>14.004</td><td>15.042</td><td>75.2</td><td>S60</td><td>5.750</td><td>4.250</td><td>1.350</td><td>Open Manhole</td><td>1200</td></tr><tr><td>1.017</td><td>46.870</td><td>937.4</td><td>S76</td><td>5.550</td><td>4.200</td><td>1.050</td><td>Open Manhole</td><td>1200</td></tr><tr><td>15.000</td><td>60.213</td><td>126.8</td><td>S63</td><td>6.900</td><td>5.710</td><td>1.040</td><td>Open Manhole</td><td>1200</td></tr><tr><td>16.000</td><td>35.650</td><td>127.3</td><td>S63</td><td>6.900</td><td>5.710</td><td>1.040</td><td>Open Manhole</td><td>1200</td></tr><tr><td>15.001</td><td>24.212</td><td>121.1</td><td>S64</td><td>6.450</td><td>5.510</td><td>0.790</td><td>Open Manhole</td><td>1200</td></tr><tr><td>15.002</td><td>4.054</td><td>12.3</td><td>S65</td><td>6.574</td><td>5.180</td><td>1.244</td><td>Open Manhole</td><td>1200</td></tr><tr><td>15.003</td><td>37.147</td><td>128.1</td><td>S66</td><td>6.237</td><td>4.740</td><td>1.197</td><td>Open Manhole</td><td>1200</td></tr><tr><td>15.004</td><td>35.580</td><td>101.7</td><td>S69</td><td>5.886</td><td>4.390</td><td>1.196</td><td>Open Manhole</td><td>1200</td></tr><tr><td>17.000</td><td>17.686</td><td>110.5</td><td>S68</td><td>6.160</td><td>4.800</td><td>1.210</td><td>Open Manhole</td><td>1200</td></tr><tr><td>17.001</td><td>8.188</td><td>31.5</td><td>S69</td><td>5.886</td><td>4.540</td><td>1.196</td><td>Open Manhole</td><td>1200</td></tr></tbody></table>				PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	1.016	o	225	S55	5.800	4.352	1.223	Open Manhole	1200	14.000	o	150	S56a	6.462	5.115	1.197	Open Manhole	1050	14.001	o	150	S56	6.134	4.790	1.194	Open Manhole	1200	14.002	o	150	S57	5.996	4.650	1.196	Open Manhole	1200	14.003	o	150	S58	5.916	4.560	1.206	Open Manhole	1200	14.004	o	150	S59	5.807	4.450	1.207	Open Manhole	1200	1.017	o	300	S60	5.750	4.250	1.200	Open Manhole	1200	15.000	o	150	S61	6.975	6.185	0.640	Open Manhole	1200	16.000	o	150	S62	6.900	5.990	0.760	Open Manhole	1200	15.001	o	150	S63	6.900	5.710	1.040	Open Manhole	1200	15.002	o	150	S64	6.450	5.510	0.790	Open Manhole	1200	15.003	o	300	S65	6.574	5.030	1.244	Open Manhole	1200	15.004	o	300	S66	6.237	4.740	1.197	Open Manhole	1200	17.000	o	150	S67	6.750	4.960	1.640	Open Manhole	1200	17.001	o	150	S68	6.160	4.800	1.210	Open Manhole	1200	PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	1.016	12.467	122.2	S60	5.750	4.250	1.275	Open Manhole	1200	14.000	33.124	101.9	S56	6.134	4.790	1.194	Open Manhole	1200	14.001	12.825	91.6	S57	5.996	4.650	1.196	Open Manhole	1200	14.002	8.557	95.1	S58	5.916	4.560	1.206	Open Manhole	1200	14.003	12.946	117.7	S59	5.807	4.450	1.207	Open Manhole	1200	14.004	15.042	75.2	S60	5.750	4.250	1.350	Open Manhole	1200	1.017	46.870	937.4	S76	5.550	4.200	1.050	Open Manhole	1200	15.000	60.213	126.8	S63	6.900	5.710	1.040	Open Manhole	1200	16.000	35.650	127.3	S63	6.900	5.710	1.040	Open Manhole	1200	15.001	24.212	121.1	S64	6.450	5.510	0.790	Open Manhole	1200	15.002	4.054	12.3	S65	6.574	5.180	1.244	Open Manhole	1200	15.003	37.147	128.1	S66	6.237	4.740	1.197	Open Manhole	1200	15.004	35.580	101.7	S69	5.886	4.390	1.196	Open Manhole	1200	17.000	17.686	110.5	S68	6.160	4.800	1.210	Open Manhole	1200	17.001	8.188	31.5	S69	5.886	4.540	1.196	Open Manhole	1200
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																																																																																																																																																																																											
1.016	o	225	S55	5.800	4.352	1.223	Open Manhole	1200																																																																																																																																																																																																																																																																																											
14.000	o	150	S56a	6.462	5.115	1.197	Open Manhole	1050																																																																																																																																																																																																																																																																																											
14.001	o	150	S56	6.134	4.790	1.194	Open Manhole	1200																																																																																																																																																																																																																																																																																											
14.002	o	150	S57	5.996	4.650	1.196	Open Manhole	1200																																																																																																																																																																																																																																																																																											
14.003	o	150	S58	5.916	4.560	1.206	Open Manhole	1200																																																																																																																																																																																																																																																																																											
14.004	o	150	S59	5.807	4.450	1.207	Open Manhole	1200																																																																																																																																																																																																																																																																																											
1.017	o	300	S60	5.750	4.250	1.200	Open Manhole	1200																																																																																																																																																																																																																																																																																											
15.000	o	150	S61	6.975	6.185	0.640	Open Manhole	1200																																																																																																																																																																																																																																																																																											
16.000	o	150	S62	6.900	5.990	0.760	Open Manhole	1200																																																																																																																																																																																																																																																																																											
15.001	o	150	S63	6.900	5.710	1.040	Open Manhole	1200																																																																																																																																																																																																																																																																																											
15.002	o	150	S64	6.450	5.510	0.790	Open Manhole	1200																																																																																																																																																																																																																																																																																											
15.003	o	300	S65	6.574	5.030	1.244	Open Manhole	1200																																																																																																																																																																																																																																																																																											
15.004	o	300	S66	6.237	4.740	1.197	Open Manhole	1200																																																																																																																																																																																																																																																																																											
17.000	o	150	S67	6.750	4.960	1.640	Open Manhole	1200																																																																																																																																																																																																																																																																																											
17.001	o	150	S68	6.160	4.800	1.210	Open Manhole	1200																																																																																																																																																																																																																																																																																											
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																																																																																																																																																																																											
1.016	12.467	122.2	S60	5.750	4.250	1.275	Open Manhole	1200																																																																																																																																																																																																																																																																																											
14.000	33.124	101.9	S56	6.134	4.790	1.194	Open Manhole	1200																																																																																																																																																																																																																																																																																											
14.001	12.825	91.6	S57	5.996	4.650	1.196	Open Manhole	1200																																																																																																																																																																																																																																																																																											
14.002	8.557	95.1	S58	5.916	4.560	1.206	Open Manhole	1200																																																																																																																																																																																																																																																																																											
14.003	12.946	117.7	S59	5.807	4.450	1.207	Open Manhole	1200																																																																																																																																																																																																																																																																																											
14.004	15.042	75.2	S60	5.750	4.250	1.350	Open Manhole	1200																																																																																																																																																																																																																																																																																											
1.017	46.870	937.4	S76	5.550	4.200	1.050	Open Manhole	1200																																																																																																																																																																																																																																																																																											
15.000	60.213	126.8	S63	6.900	5.710	1.040	Open Manhole	1200																																																																																																																																																																																																																																																																																											
16.000	35.650	127.3	S63	6.900	5.710	1.040	Open Manhole	1200																																																																																																																																																																																																																																																																																											
15.001	24.212	121.1	S64	6.450	5.510	0.790	Open Manhole	1200																																																																																																																																																																																																																																																																																											
15.002	4.054	12.3	S65	6.574	5.180	1.244	Open Manhole	1200																																																																																																																																																																																																																																																																																											
15.003	37.147	128.1	S66	6.237	4.740	1.197	Open Manhole	1200																																																																																																																																																																																																																																																																																											
15.004	35.580	101.7	S69	5.886	4.390	1.196	Open Manhole	1200																																																																																																																																																																																																																																																																																											
17.000	17.686	110.5	S68	6.160	4.800	1.210	Open Manhole	1200																																																																																																																																																																																																																																																																																											
17.001	8.188	31.5	S69	5.886	4.540	1.196	Open Manhole	1200																																																																																																																																																																																																																																																																																											
©1982-2020 Innovyze																																																																																																																																																																																																																																																																																																			

RSK LDE		Page 53						
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...		Designed by AMuthusami Checked by						
XP Solutions		Network 2020.1.3						
PIPELINE SCHEDULES for Surface Network 1								
Upstream Manhole								
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
15.005	o	300	S69	5.886	4.390	1.196	Open Manhole	1200
15.006	o	300	S70	5.667	4.290	1.077	Open Manhole	1200
15.007	o	300	S71	5.900	4.260	1.340	Open Manhole	1200
18.000	o	150	S72	6.150	5.060	0.940	Open Manhole	1200
19.000	o	150	S73	6.000	5.130	0.720	Open Manhole	1200
18.001	o	150	S74	6.050	4.850	1.050	Open Manhole	1200
18.002	o	150	S75	5.560	4.770	0.640	Open Manhole	1200
1.018	o	300	S76	5.550	4.200	1.050	Open Manhole	1200
1.019	o	300	S77	5.550	4.150	1.100	Open Manhole	1200
1.020	o	300	S78	5.750	4.100	1.350	Open Manhole	1200
1.021	o	300	S79	5.420	4.050	1.070	Open Manhole	1200
20.000	o	225	S80	7.005	5.660	1.120	Open Manhole	1200
20.001	o	225	S81	6.895	5.593	1.077	Open Manhole	1200
21.000	o	150	S82	6.825	5.623	1.052	Open Manhole	1200
Downstream Manhole								
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
15.005	26.222	262.2	S70	5.667	4.290	1.077	Open Manhole	1200
15.006	5.601	186.7	S71	5.900	4.260	1.340	Open Manhole	1200
15.007	5.773	96.2	S76	5.550	4.200	1.050	Open Manhole	1200
18.000	25.210	120.0	S74	6.050	4.850	1.050	Open Manhole	1200
19.000	12.463	44.5	S74	6.050	4.850	1.050	Open Manhole	1200
18.001	9.756	122.0	S75	5.560	4.770	0.640	Open Manhole	1200
18.002	32.780	78.0	S76	5.550	4.350	1.050	Open Manhole	1200
1.018	6.009	120.2	S77	5.550	4.150	1.100	Open Manhole	1200
1.019	10.456	209.1	S78	5.750	4.100	1.350	Open Manhole	1200
1.020	31.084	621.7	S79	5.420	4.050	1.070	Open Manhole	1200
1.021	34.007	158.2	S164	5.420	3.835	1.285	Open Manhole	1200
20.000	13.799	206.0	S81	6.895	5.593	1.077	Open Manhole	1200
20.001	21.664	204.4	S83	6.669	5.487	0.957	Open Manhole	1200
21.000	8.199	134.4	S83	6.669	5.562	0.957	Open Manhole	1200
©1982-2020 Innovyze								

RSK LDE		Page 54						
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...		Designed by AMuthusami Checked by						
XP Solutions		Network 2020.1.3						
PIPELINE SCHEDULES for Surface Network 1								
Upstream Manhole								
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
20.002	o	300	S83	6.669	5.412	0.957	Open Manhole	1200
20.003	o	300	S84	6.529	5.357	0.872	Open Manhole	1200
20.004	o	300	S85	6.499	5.282	0.917	Open Manhole	1200
20.005	o	300	S86	6.497	5.183	1.014	Open Manhole	1200
20.006	o	300	S87	6.600	5.075	1.225	Open Manhole	1200
20.007	o	300	S88	6.550	5.030	1.220	Open Manhole	1200
20.008	o	300	S89	6.550	4.943	1.307	Open Manhole	1200
22.000	o	150	S253	7.300	5.900	1.250	Open Manhole	1200
22.001	o	150	S90	7.300	5.900	1.250	Open Manhole	1200
22.002	o	225	S91	7.623	5.665	1.733	Open Manhole	1200
22.003	o	225	S92	7.429	5.549	1.655	Open Manhole	1200
22.004	o	225	S93	7.250	5.450	1.575	Open Manhole	1200
22.005	o	225	S94	7.173	5.400	1.548	Open Manhole	1200
22.006	o	225	S95	6.991	5.295	1.471	Open Manhole	1200
23.000	o	150	S96	7.000	5.905	0.945	Open Manhole	1200
23.001	o	150	S97	6.780	5.500	1.130	Open Manhole	1200
24.000	o	150	S98	6.980	5.950	0.880	Open Manhole	1200
Downstream Manhole								
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
20.002	14.818	269.4	S84	6.529	5.357	0.872	Open Manhole	1200
20.003	21.572	287.6	S85	6.499	5.282	0.917	Open Manhole	1200
20.004	27.653	279.3	S86	6.497	5.183	1.014	Open Manhole	1200
20.005	29.912	277.0	S87	6.600	5.075	1.225	Open Manhole	1200
20.006	10.054	223.4	S88	6.550	5.030	1.220	Open Manhole	1200
20.007	20.595	236.7	S89	6.550	4.943	1.307	Open Manhole	1200
20.008	6.292	224.7	S103	6.556	4.915	1.341	Open Manhole	1200
22.000	4.298	0.0	S90	7.300	5.900	1.250	Open Manhole	1200
22.001	13.399	83.7	S91	7.623	5.740	1.733	Open Manhole	1200
22.002	23.360	201.4	S92	7.429	5.549	1.655	Open Manhole	1200
22.003	19.767	199.7	S93	7.250	5.450	1.575	Open Manhole	1200
22.004	10.130	202.6	S94	7.173	5.400	1.548	Open Manhole	1200
22.005	21.349	203.3	S95	6.991	5.295	1.471	Open Manhole	1200
22.006	20.837	206.3	S99	6.800	5.194	1.381	Open Manhole	1200
23.000	24.483	60.5	S97	6.780	5.500	1.130	Open Manhole	1200
23.001	3.435	14.9	S99	6.800	5.269	1.381	Open Manhole	1200
24.000	8.441	12.4	S99	6.800	5.269	1.381	Open Manhole	1200
©1982-2020 Innovyeze								

RSK LDE							Page 55																																																																																																																																																																																																																																																																																																	
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT				Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																																																																																																																																																																																																																				
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...				Designed by AMuthusami Checked by																																																																																																																																																																																																																																																																																																				
XP Solutions				Network 2020.1.3																																																																																																																																																																																																																																																																																																				
<u>PIPELINE SCHEDULES for Surface Network 1</u> <u>Upstream Manhole</u> <table><tr><th>PN</th><th>Hyd Sect</th><th>Diam (mm)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr><tr><td>22.007</td><td>o</td><td>225</td><td>S99</td><td>6.800</td><td>5.194</td><td>1.381</td><td>Open Manhole</td><td>1200</td></tr><tr><td>22.008</td><td>o</td><td>300</td><td>S100</td><td>6.536</td><td>4.987</td><td>1.249</td><td>Open Manhole</td><td>1200</td></tr><tr><td>22.009</td><td>o</td><td>300</td><td>S101</td><td>6.430</td><td>4.935</td><td>1.195</td><td>Open Manhole</td><td>1200</td></tr><tr><td>22.010</td><td>o</td><td>300</td><td>S102</td><td>6.550</td><td>4.915</td><td>1.335</td><td>Open Manhole</td><td>1200</td></tr><tr><td>20.009</td><td>o</td><td>300</td><td>S103</td><td>6.556</td><td>4.915</td><td>1.341</td><td>Open Manhole</td><td>1200</td></tr><tr><td>20.010</td><td>o</td><td>300</td><td>S104</td><td>6.556</td><td>4.915</td><td>1.341</td><td>Open Manhole</td><td>1200</td></tr><tr><td>20.011</td><td>o</td><td>300</td><td>S105</td><td>6.900</td><td>4.750</td><td>1.850</td><td>Open Manhole</td><td>1200</td></tr><tr><td>25.000</td><td>o</td><td>150</td><td>S106</td><td>7.120</td><td>6.215</td><td>0.755</td><td>Open Manhole</td><td>1200</td></tr><tr><td>25.001</td><td>o</td><td>150</td><td>S107</td><td>7.200</td><td>6.065</td><td>0.985</td><td>Open Manhole</td><td>1200</td></tr><tr><td>25.002</td><td>o</td><td>150</td><td>S108</td><td>7.050</td><td>5.875</td><td>1.025</td><td>Open Manhole</td><td>1200</td></tr><tr><td>25.003</td><td>o</td><td>150</td><td>S109</td><td>6.900</td><td>5.500</td><td>1.250</td><td>Open Manhole</td><td>1200</td></tr><tr><td>20.012</td><td>o</td><td>300</td><td>S110</td><td>6.900</td><td>4.750</td><td>1.850</td><td>Open Manhole</td><td>1200</td></tr><tr><td>26.000</td><td>o</td><td>150</td><td>S113</td><td>7.000</td><td>6.050</td><td>0.800</td><td>Open Manhole</td><td>1200</td></tr><tr><td>26.001</td><td>o</td><td>150</td><td>S114</td><td>6.804</td><td>6.000</td><td>0.654</td><td>Open Manhole</td><td>1200</td></tr><tr><td>27.000</td><td>o</td><td>150</td><td>S115a</td><td>7.010</td><td>6.110</td><td>0.750</td><td>Open Manhole</td><td>1050</td></tr></table> <u>Downstream Manhole</u> <table><tr><th>PN</th><th>Length (m)</th><th>Slope (1:X)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr><tr><td>22.007</td><td>26.521</td><td>200.9</td><td>S100</td><td>6.536</td><td>5.062</td><td>1.249</td><td>Open Manhole</td><td>1200</td></tr><tr><td>22.008</td><td>10.259</td><td>197.3</td><td>S101</td><td>6.430</td><td>4.935</td><td>1.195</td><td>Open Manhole</td><td>1200</td></tr><tr><td>22.009</td><td>4.237</td><td>211.9</td><td>S102</td><td>6.550</td><td>4.915</td><td>1.335</td><td>Open Manhole</td><td>1200</td></tr><tr><td>22.010</td><td>3.485</td><td>0.0</td><td>S103</td><td>6.556</td><td>4.915</td><td>1.341</td><td>Open Manhole</td><td>1200</td></tr><tr><td>20.009</td><td>7.791</td><td>0.0</td><td>S104</td><td>6.556</td><td>4.915</td><td>1.341</td><td>Open Manhole</td><td>1200</td></tr><tr><td>20.010</td><td>24.064</td><td>145.8</td><td>S105</td><td>6.900</td><td>4.750</td><td>1.850</td><td>Open Manhole</td><td>1200</td></tr><tr><td>20.011</td><td>11.457</td><td>0.0</td><td>S110</td><td>6.900</td><td>4.750</td><td>1.850</td><td>Open Manhole</td><td>1200</td></tr><tr><td>25.000</td><td>18.358</td><td>122.4</td><td>S107</td><td>7.200</td><td>6.065</td><td>0.985</td><td>Open Manhole</td><td>1200</td></tr><tr><td>25.001</td><td>23.010</td><td>121.1</td><td>S108</td><td>7.050</td><td>5.875</td><td>1.025</td><td>Open Manhole</td><td>1200</td></tr><tr><td>25.002</td><td>11.017</td><td>29.4</td><td>S109</td><td>6.900</td><td>5.500</td><td>1.250</td><td>Open Manhole</td><td>1200</td></tr><tr><td>25.003</td><td>10.252</td><td>20.5</td><td>S110</td><td>6.900</td><td>5.000</td><td>1.750</td><td>Open Manhole</td><td>1200</td></tr><tr><td>20.012</td><td>25.858</td><td>235.1</td><td>S127</td><td>6.753</td><td>4.640</td><td>1.813</td><td>Open Manhole</td><td>1200</td></tr><tr><td>26.000</td><td>17.917</td><td>358.3</td><td>S114</td><td>6.804</td><td>6.000</td><td>0.654</td><td>Open Manhole</td><td>1200</td></tr><tr><td>26.001</td><td>17.329</td><td>866.5</td><td>S115</td><td>6.849</td><td>5.980</td><td>0.719</td><td>Open Manhole</td><td>1200</td></tr><tr><td>27.000</td><td>18.765</td><td>144.3</td><td>S115</td><td>6.849</td><td>5.980</td><td>0.719</td><td>Open Manhole</td><td>1200</td></tr></table>									PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	22.007	o	225	S99	6.800	5.194	1.381	Open Manhole	1200	22.008	o	300	S100	6.536	4.987	1.249	Open Manhole	1200	22.009	o	300	S101	6.430	4.935	1.195	Open Manhole	1200	22.010	o	300	S102	6.550	4.915	1.335	Open Manhole	1200	20.009	o	300	S103	6.556	4.915	1.341	Open Manhole	1200	20.010	o	300	S104	6.556	4.915	1.341	Open Manhole	1200	20.011	o	300	S105	6.900	4.750	1.850	Open Manhole	1200	25.000	o	150	S106	7.120	6.215	0.755	Open Manhole	1200	25.001	o	150	S107	7.200	6.065	0.985	Open Manhole	1200	25.002	o	150	S108	7.050	5.875	1.025	Open Manhole	1200	25.003	o	150	S109	6.900	5.500	1.250	Open Manhole	1200	20.012	o	300	S110	6.900	4.750	1.850	Open Manhole	1200	26.000	o	150	S113	7.000	6.050	0.800	Open Manhole	1200	26.001	o	150	S114	6.804	6.000	0.654	Open Manhole	1200	27.000	o	150	S115a	7.010	6.110	0.750	Open Manhole	1050	PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	22.007	26.521	200.9	S100	6.536	5.062	1.249	Open Manhole	1200	22.008	10.259	197.3	S101	6.430	4.935	1.195	Open Manhole	1200	22.009	4.237	211.9	S102	6.550	4.915	1.335	Open Manhole	1200	22.010	3.485	0.0	S103	6.556	4.915	1.341	Open Manhole	1200	20.009	7.791	0.0	S104	6.556	4.915	1.341	Open Manhole	1200	20.010	24.064	145.8	S105	6.900	4.750	1.850	Open Manhole	1200	20.011	11.457	0.0	S110	6.900	4.750	1.850	Open Manhole	1200	25.000	18.358	122.4	S107	7.200	6.065	0.985	Open Manhole	1200	25.001	23.010	121.1	S108	7.050	5.875	1.025	Open Manhole	1200	25.002	11.017	29.4	S109	6.900	5.500	1.250	Open Manhole	1200	25.003	10.252	20.5	S110	6.900	5.000	1.750	Open Manhole	1200	20.012	25.858	235.1	S127	6.753	4.640	1.813	Open Manhole	1200	26.000	17.917	358.3	S114	6.804	6.000	0.654	Open Manhole	1200	26.001	17.329	866.5	S115	6.849	5.980	0.719	Open Manhole	1200	27.000	18.765	144.3	S115	6.849	5.980	0.719	Open Manhole	1200
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																																																																																																																																																																																																
22.007	o	225	S99	6.800	5.194	1.381	Open Manhole	1200																																																																																																																																																																																																																																																																																																
22.008	o	300	S100	6.536	4.987	1.249	Open Manhole	1200																																																																																																																																																																																																																																																																																																
22.009	o	300	S101	6.430	4.935	1.195	Open Manhole	1200																																																																																																																																																																																																																																																																																																
22.010	o	300	S102	6.550	4.915	1.335	Open Manhole	1200																																																																																																																																																																																																																																																																																																
20.009	o	300	S103	6.556	4.915	1.341	Open Manhole	1200																																																																																																																																																																																																																																																																																																
20.010	o	300	S104	6.556	4.915	1.341	Open Manhole	1200																																																																																																																																																																																																																																																																																																
20.011	o	300	S105	6.900	4.750	1.850	Open Manhole	1200																																																																																																																																																																																																																																																																																																
25.000	o	150	S106	7.120	6.215	0.755	Open Manhole	1200																																																																																																																																																																																																																																																																																																
25.001	o	150	S107	7.200	6.065	0.985	Open Manhole	1200																																																																																																																																																																																																																																																																																																
25.002	o	150	S108	7.050	5.875	1.025	Open Manhole	1200																																																																																																																																																																																																																																																																																																
25.003	o	150	S109	6.900	5.500	1.250	Open Manhole	1200																																																																																																																																																																																																																																																																																																
20.012	o	300	S110	6.900	4.750	1.850	Open Manhole	1200																																																																																																																																																																																																																																																																																																
26.000	o	150	S113	7.000	6.050	0.800	Open Manhole	1200																																																																																																																																																																																																																																																																																																
26.001	o	150	S114	6.804	6.000	0.654	Open Manhole	1200																																																																																																																																																																																																																																																																																																
27.000	o	150	S115a	7.010	6.110	0.750	Open Manhole	1050																																																																																																																																																																																																																																																																																																
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																																																																																																																																																																																																
22.007	26.521	200.9	S100	6.536	5.062	1.249	Open Manhole	1200																																																																																																																																																																																																																																																																																																
22.008	10.259	197.3	S101	6.430	4.935	1.195	Open Manhole	1200																																																																																																																																																																																																																																																																																																
22.009	4.237	211.9	S102	6.550	4.915	1.335	Open Manhole	1200																																																																																																																																																																																																																																																																																																
22.010	3.485	0.0	S103	6.556	4.915	1.341	Open Manhole	1200																																																																																																																																																																																																																																																																																																
20.009	7.791	0.0	S104	6.556	4.915	1.341	Open Manhole	1200																																																																																																																																																																																																																																																																																																
20.010	24.064	145.8	S105	6.900	4.750	1.850	Open Manhole	1200																																																																																																																																																																																																																																																																																																
20.011	11.457	0.0	S110	6.900	4.750	1.850	Open Manhole	1200																																																																																																																																																																																																																																																																																																
25.000	18.358	122.4	S107	7.200	6.065	0.985	Open Manhole	1200																																																																																																																																																																																																																																																																																																
25.001	23.010	121.1	S108	7.050	5.875	1.025	Open Manhole	1200																																																																																																																																																																																																																																																																																																
25.002	11.017	29.4	S109	6.900	5.500	1.250	Open Manhole	1200																																																																																																																																																																																																																																																																																																
25.003	10.252	20.5	S110	6.900	5.000	1.750	Open Manhole	1200																																																																																																																																																																																																																																																																																																
20.012	25.858	235.1	S127	6.753	4.640	1.813	Open Manhole	1200																																																																																																																																																																																																																																																																																																
26.000	17.917	358.3	S114	6.804	6.000	0.654	Open Manhole	1200																																																																																																																																																																																																																																																																																																
26.001	17.329	866.5	S115	6.849	5.980	0.719	Open Manhole	1200																																																																																																																																																																																																																																																																																																
27.000	18.765	144.3	S115	6.849	5.980	0.719	Open Manhole	1200																																																																																																																																																																																																																																																																																																
©1982-2020 Innovyze																																																																																																																																																																																																																																																																																																								

RSK LDE		Page 56						
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...		Designed by AMuthusami Checked by						
XP Solutions		Network 2020.1.3						
PIPELINE SCHEDULES for Surface Network 1								
Upstream Manhole								
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
26.002	o	150	S115	6.849	5.980	0.719	Open Manhole	1200
26.003	o	150	S116	7.100	5.950	1.000	Open Manhole	1200
26.004	o	150	S117	7.100	5.950	1.000	Open Manhole	1200
26.005	o	150	S118	7.000	5.940	0.910	Open Manhole	1200
26.006	o	150	S119	7.000	5.940	0.910	Open Manhole	1200
26.007	o	150	S120	6.750	5.920	0.680	Open Manhole	1200
28.000	o	300	S121	6.900	6.100	0.500	Open Manhole	1200
28.001	o	150	S122	7.100	6.200	0.750	Open Manhole	1200
28.002	o	150	S123	7.105	6.050	0.905	Open Manhole	1200
28.003	o	150	S124	6.900	6.000	0.750	Open Manhole	1200
28.004	o	150	S125	6.719	6.000	0.569	Open Manhole	1200
29.000	o	150	S126	6.753	6.025	0.578	Open Manhole	1200
20.013	o	300	S127	6.753	4.640	1.813	Open Manhole	1200
30.000	o	150	S128	6.700	5.880	0.670	Open Manhole	1200
30.001	o	150	S129	6.745	5.790	0.805	Open Manhole	1200
Downstream Manhole								
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
26.002	33.286	1109.5	S116	7.100	5.950	1.000	Open Manhole	1200
26.003	6.308	0.0	S117	7.100	5.950	1.000	Open Manhole	1200
26.004	18.925	1892.5	S118	7.000	5.940	0.910	Open Manhole	1200
26.005	8.662	0.0	S119	7.000	5.940	0.910	Open Manhole	1200
26.006	18.362	918.1	S120	6.750	5.920	0.680	Open Manhole	1200
26.007	6.116	611.6	S127	6.753	5.910	0.693	Open Manhole	1200
28.000	46.370	927.4	S122	7.100	6.050	0.750	Open Manhole	1200
28.001	9.129	60.9	S123	7.105	6.050	0.905	Open Manhole	1200
28.002	16.992	339.8	S124	6.900	6.000	0.750	Open Manhole	1200
28.003	8.356	0.0	S125	6.719	6.000	0.569	Open Manhole	1200
28.004	12.917	143.5	S127	6.753	5.910	0.693	Open Manhole	1200
29.000	16.326	142.0	S127	6.753	5.910	0.693	Open Manhole	1200
20.013	15.685	392.1	S130	6.600	4.600	1.700	Open Manhole	1200
30.000	9.451	105.0	S129	6.745	5.790	0.805	Open Manhole	1200
30.001	9.804	51.6	S130	6.600	5.600	0.850	Open Manhole	1200
©1982-2020 Innovyze								

RSK LDE		Page 57						
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...		Designed by AMuthusami Checked by						
XP Solutions		Network 2020.1.3						
PIPELINE SCHEDULES for Surface Network 1								
Upstream Manhole								
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
20.014	o	300	S130	6.600	4.600	1.700	Open Manhole	1200
31.000	o	150	S131	6.577	5.310	1.117	Open Manhole	1200
31.001	o	150	S132	6.474	5.120	1.204	Open Manhole	1200
31.002	o	150	S133	6.320	5.000	1.170	Open Manhole	1200
20.015	o	300	S134	6.600	4.460	1.840	Open Manhole	1200
32.000	o	150	S135	6.370	5.550	0.670	Open Manhole	1200
20.016	o	300	S136	6.600	4.460	1.840	Open Manhole	1200
33.000	o	150	S137	6.250	5.100	1.000	Open Manhole	1200
20.017	o	300	S138	5.938	4.400	1.238	Open Manhole	1200
34.000	o	150	S139	6.325	5.250	0.925	Open Manhole	1200
34.001	o	150	S140	6.050	5.100	0.800	Open Manhole	1200
34.002	o	150	S141	5.930	4.970	0.810	Open Manhole	1200
35.000	o	150	S142	6.074	5.288	0.636	Open Manhole	1200
Downstream Manhole								
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
20.014	34.119	243.7	S134	6.600	4.460	1.840	Open Manhole	1200
31.000	6.178	32.5	S132	6.474	5.120	1.204	Open Manhole	1200
31.001	13.576	113.1	S133	6.320	5.000	1.170	Open Manhole	1200
31.002	8.815	30.4	S134	6.600	4.710	1.740	Open Manhole	1200
20.015	23.076	0.0	S136	6.600	4.460	1.840	Open Manhole	1200
32.000	9.323	11.1	S136	6.600	4.710	1.740	Open Manhole	1200
20.016	15.391	256.5	S138	5.938	4.400	1.238	Open Manhole	1200
33.000	10.092	22.4	S138	5.938	4.650	1.138	Open Manhole	1200
20.017	14.640	0.0	S144	5.900	4.400	1.200	Open Manhole	1200
34.000	19.780	131.9	S140	6.050	5.100	0.800	Open Manhole	1200
34.001	19.374	149.0	S141	5.930	4.970	0.810	Open Manhole	1200
34.002	6.741	112.4	S143	6.070	4.910	1.010	Open Manhole	1200
35.000	20.846	55.1	S143	6.070	4.910	1.010	Open Manhole	1200
©1982-2020 Innovyze								

RSK LDE		Page 58						
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...		Designed by AMuthusami Checked by						
XP Solutions		Network 2020.1.3						
PIPELINE SCHEDULES for Surface Network 1								
Upstream Manhole								
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
34.003	o	150	S143	6.070	4.910	1.010	Open Manhole	1200
20.018	o	300	S144	5.900	4.400	1.200	Open Manhole	1200
36.000	o	150	S145	6.617	5.270	1.197	Open Manhole	1200
37.000	o	150	S146	6.310	5.100	1.060	Open Manhole	1200
36.001	o	300	S147	6.026	4.650	1.076	Open Manhole	1200
36.002	o	300	S148	5.922	4.430	1.192	Open Manhole	1200
38.000	o	150	S149a	5.942	4.766	1.026	Open Manhole	1050
38.001	o	150	S149b	6.026	4.647	1.229	Open Manhole	1050
36.003	o	300	S149	6.117	4.360	1.457	Open Manhole	1200
36.004	o	300	S150	5.782	4.270	1.212	Open Manhole	1200
39.000	o	150	S151	5.920	4.570	1.200	Open Manhole	1200
20.019	o	300	S152	5.640	4.150	1.190	Open Manhole	1200
Downstream Manhole								
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
34.003	7.942	30.5	S144	5.900	4.650	1.100	Open Manhole	1200
20.018	11.784	47.1	S152	5.640	4.150	1.190	Open Manhole	1200
36.000	49.652	105.6	S147	6.026	4.800	1.076	Open Manhole	1200
37.000	5.828	19.4	S147	6.026	4.800	1.076	Open Manhole	1200
36.001	15.880	72.2	S148	5.922	4.430	1.192	Open Manhole	1200
36.002	17.265	246.6	S149	6.117	4.360	1.457	Open Manhole	1200
38.000	15.485	130.1	S149b	6.026	4.647	1.229	Open Manhole	1050
38.001	17.814	62.1	S149	6.117	4.360	1.607	Open Manhole	1200
36.003	23.494	261.0	S150	5.782	4.270	1.212	Open Manhole	1200
36.004	22.413	186.8	S152	5.640	4.150	1.190	Open Manhole	1200
39.000	20.257	75.0	S152	5.640	4.300	1.190	Open Manhole	1200
20.019	4.632	154.4	S155	5.780	4.120	1.360	Open Manhole	1200
©1982-2020 Innovyze								

RSK LDE		Page 59						
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...		Designed by AMuthusami Checked by						
XP Solutions		Network 2020.1.3						
PIPELINE SCHEDULES for Surface Network 1								
Upstream Manhole								
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
40.000	o	150	S153	5.970	4.575	1.245	Open Manhole	1200
41.000	o	150	S154	5.850	4.450	1.250	Open Manhole	1200
20.020	o	300	S155	5.780	4.120	1.360	Open Manhole	1200
20.021	o	300	S156	5.780	4.120	1.360	Open Manhole	1200
20.022	o	300	S157	5.635	3.965	1.370	Open Manhole	1200
42.000	o	150	S159a	5.916	4.566	1.200	Open Manhole	1050
42.001	o	150	S159b	5.818	4.468	1.200	Open Manhole	1050
43.000	o	150	S158	5.750	4.570	1.030	Open Manhole	1050
42.002	o	150	S159	5.660	4.270	1.240	Open Manhole	1200
42.003	o	150	S160	5.474	4.120	1.204	Open Manhole	1200
20.023	o	300	S162	5.400	3.885	1.215	Open Manhole	1200
20.024	o	300	S163	5.400	3.869	1.231	Open Manhole	1200
1.022	o	300	S164	5.420	3.835	1.285	Open Manhole	1200
Downstream Manhole								
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
40.000	9.059	29.7	S155	5.780	4.270	1.360	Open Manhole	1200
41.000	6.094	33.9	S155	5.780	4.270	1.360	Open Manhole	1200
20.020	11.644	0.0	S156	5.780	4.120	1.360	Open Manhole	1200
20.021	32.158	207.5	S157	5.635	3.965	1.370	Open Manhole	1200
20.022	6.651	83.1	S162	5.400	3.885	1.215	Open Manhole	1200
42.000	11.918	121.6	S159b	5.818	4.468	1.200	Open Manhole	1050
42.001	13.879	70.1	S159	5.660	4.270	1.240	Open Manhole	1200
43.000	9.055	30.2	S159	5.660	4.270	1.240	Open Manhole	1200
42.002	16.673	111.2	S160	5.474	4.120	1.204	Open Manhole	1200
42.003	7.928	93.3	S162	5.400	4.035	1.215	Open Manhole	1200
20.023	4.513	282.1	S163	5.400	3.869	1.231	Open Manhole	1200
20.024	8.201	241.2	S164	5.420	3.835	1.285	Open Manhole	1200
1.022	17.390	0.0	S165	5.200	3.835	1.065	Open Manhole	1200
©1982-2020 Innovyze								

RSK LDE		Page 60
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions	Network 2020.1.3	

PIPELINE SCHEDULES for Surface Network 1

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.023	o	300	S165	5.200	3.835	1.065	Open Manhole	1200
1.024	o	300	S166	5.200	3.835	1.065	Open Manhole	1200
44.000	o	150	S167	5.602	4.280	1.172	Open Manhole	1200
45.000	o	150	S168	5.700	4.720	0.830	Open Manhole	1200
44.001	o	150	S169	5.505	4.160	1.195	Open Manhole	1200
46.000	o	150	S170	5.630	4.300	1.180	Open Manhole	1200
46.001	o	150	S171	5.369	4.040	1.179	Open Manhole	1200
44.002	o	225	S172	5.276	3.913	1.138	Open Manhole	1200
44.003	o	225	S173	5.122	3.855	1.042	Open Manhole	1200
47.000	o	150	S174	5.170	3.845	1.175	Open Manhole	1200
44.004	o	225	S175	5.050	3.720	1.105	Open Manhole	1200
1.025	o	300	S176	4.950	3.720	0.930	Open Manhole	1200
1.026	o	300	S177	4.450	3.700	0.450	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.023	48.402	0.0	S166	5.200	3.835	1.065	Open Manhole	1200
1.024	38.318	333.2	S176	4.950	3.720	0.930	Open Manhole	1200
44.000	11.954	99.6	S169	5.505	4.160	1.195	Open Manhole	1200
45.000	7.349	13.1	S169	5.505	4.160	1.195	Open Manhole	1200
44.001	22.295	129.6	S172	5.276	3.988	1.138	Open Manhole	1200
46.000	6.317	24.3	S171	5.369	4.040	1.179	Open Manhole	1200
46.001	6.785	130.5	S172	5.276	3.988	1.138	Open Manhole	1200
44.002	11.212	193.3	S173	5.122	3.855	1.042	Open Manhole	1200
44.003	27.508	203.8	S175	5.050	3.720	1.105	Open Manhole	1200
47.000	6.461	129.2	S175	5.050	3.795	1.105	Open Manhole	1200
44.004	6.311	0.0	S176	4.950	3.720	1.005	Open Manhole	1200
1.025	20.213	1010.7	S177	4.450	3.700	0.450	Open Manhole	1200
1.026	20.756	0.0	S250	4.450	3.700	0.450	Open Manhole	1200

RSK LDE		Page 61						
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...		Designed by AMuthusami Checked by						
XP Solutions		Network 2020.1.3						
PIPELINE SCHEDULES for Surface Network 1								
Upstream Manhole								
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
48.000	o	150	S178	7.100	6.010	0.940	Open Manhole	1200
48.001	o	150	S179	6.900	5.900	0.850	Open Manhole	1200
48.002	o	150	S180	6.750	5.764	0.836	Open Manhole	1200
48.003	o	150	S181	6.675	5.659	0.866	Open Manhole	1200
48.004	o	150	S182	6.900	5.510	1.240	Open Manhole	1200
49.000	o	150	S184a	7.000	5.800	1.050	Open Manhole	1050
50.000	o	150	S183	6.739	5.453	1.136	Open Manhole	1050
48.005	o	225	S184	6.863	5.280	1.358	Open Manhole	1200
48.006	o	225	S185	6.728	5.160	1.343	Open Manhole	1200
48.007	o	225	S186	6.550	4.960	1.365	Open Manhole	1200
48.008	o	225	S187	6.300	4.880	1.195	Open Manhole	1200
48.009	o	300	S188	6.750	4.850	1.600	Open Manhole	1200
48.010	o	300	S189	6.750	4.820	1.630	Open Manhole	1200
48.011	o	300	S190	6.300	4.780	1.220	Open Manhole	1200
51.000	o	150	S191	6.500	5.490	0.860	Open Manhole	1200
51.001	o	150	S192	6.200	5.400	0.650	Open Manhole	1200
Downstream Manhole								
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
48.000	15.268	138.8	S179	6.900	5.900	0.850	Open Manhole	1200
48.001	17.732	130.4	S180	6.750	5.764	0.836	Open Manhole	1200
48.002	13.988	133.2	S181	6.675	5.659	0.866	Open Manhole	1200
48.003	17.575	118.0	S182	6.900	5.510	1.240	Open Manhole	1200
48.004	8.713	56.2	S184	6.863	5.355	1.358	Open Manhole	1200
49.000	13.321	29.9	S184	6.863	5.355	1.358	Open Manhole	1200
50.000	12.734	129.9	S184	6.863	5.355	1.358	Open Manhole	1200
48.005	14.384	119.9	S185	6.728	5.160	1.343	Open Manhole	1200
48.006	24.977	124.9	S186	6.550	4.960	1.365	Open Manhole	1200
48.007	8.469	105.9	S187	6.300	4.880	1.195	Open Manhole	1200
48.008	6.810	227.0	S188	6.750	4.850	1.675	Open Manhole	1200
48.009	9.471	315.7	S189	6.750	4.820	1.630	Open Manhole	1200
48.010	11.295	282.4	S190	6.300	4.780	1.220	Open Manhole	1200
48.011	11.386	379.5	S193	6.200	4.750	1.150	Open Manhole	1200
51.000	11.315	125.7	S192	6.200	5.400	0.650	Open Manhole	1200
51.001	3.838	9.6	S193	6.200	5.000	1.050	Open Manhole	1200
©1982-2020 Innovyeze								

RSK LDE		Page 62																																																																																																																																																																																																																																																													
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																																																																																																																																																																													
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...		Designed by AMuthusami Checked by																																																																																																																																																																																																																																																													
XP Solutions		Network 2020.1.3																																																																																																																																																																																																																																																													
PIPELINE SCHEDULES for Surface Network 1 Upstream Manhole <table><thead><tr><th>PN</th><th>Hyd Sect</th><th>Diam (mm)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr></thead><tbody><tr><td>48.012</td><td>o</td><td>300</td><td>S193</td><td>6.200</td><td>4.750</td><td>1.150</td><td>Open Manhole</td><td>1200</td></tr><tr><td>48.013</td><td>o</td><td>300</td><td>S194</td><td>6.150</td><td>4.630</td><td>1.220</td><td>Open Manhole</td><td>1200</td></tr><tr><td>52.000</td><td>o</td><td>150</td><td>S195</td><td>6.614</td><td>5.400</td><td>1.064</td><td>Open Manhole</td><td>1200</td></tr><tr><td>53.000</td><td>o</td><td>150</td><td>S196</td><td>6.450</td><td>5.400</td><td>0.900</td><td>Open Manhole</td><td>1200</td></tr><tr><td>52.001</td><td>o</td><td>150</td><td>S197</td><td>6.385</td><td>5.010</td><td>1.225</td><td>Open Manhole</td><td>1200</td></tr><tr><td>52.002</td><td>o</td><td>150</td><td>S198</td><td>6.129</td><td>4.820</td><td>1.159</td><td>Open Manhole</td><td>1200</td></tr><tr><td>52.003</td><td>o</td><td>150</td><td>S199</td><td>5.992</td><td>4.650</td><td>1.192</td><td>Open Manhole</td><td>1200</td></tr><tr><td>52.004</td><td>o</td><td>150</td><td>S200</td><td>5.950</td><td>4.590</td><td>1.210</td><td>Open Manhole</td><td>1200</td></tr><tr><td>48.014</td><td>o</td><td>300</td><td>S201</td><td>5.950</td><td>4.500</td><td>1.150</td><td>Open Manhole</td><td>1200</td></tr><tr><td>54.000</td><td>o</td><td>150</td><td>S203</td><td>6.000</td><td>4.950</td><td>0.900</td><td>Open Manhole</td><td>1200</td></tr><tr><td>54.001</td><td>o</td><td>150</td><td>S204</td><td>5.850</td><td>4.800</td><td>0.900</td><td>Open Manhole</td><td>1200</td></tr><tr><td>54.002</td><td>o</td><td>150</td><td>S205</td><td>5.700</td><td>4.500</td><td>1.050</td><td>Open Manhole</td><td>1200</td></tr><tr><td>48.015</td><td>o</td><td>300</td><td>S206</td><td>5.500</td><td>4.450</td><td>0.750</td><td>Open Manhole</td><td>1200</td></tr></tbody></table> Downstream Manhole <table><thead><tr><th>PN</th><th>Length (m)</th><th>Slope (1:X)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr></thead><tbody><tr><td>48.012</td><td>18.379</td><td>153.2</td><td>S194</td><td>6.150</td><td>4.630</td><td>1.220</td><td>Open Manhole</td><td>1200</td></tr><tr><td>48.013</td><td>18.447</td><td>141.9</td><td>S201</td><td>5.950</td><td>4.500</td><td>1.150</td><td>Open Manhole</td><td>1200</td></tr><tr><td>52.000</td><td>14.874</td><td>38.1</td><td>S197</td><td>6.385</td><td>5.010</td><td>1.225</td><td>Open Manhole</td><td>1200</td></tr><tr><td>53.000</td><td>7.319</td><td>18.8</td><td>S197</td><td>6.385</td><td>5.010</td><td>1.225</td><td>Open Manhole</td><td>1200</td></tr><tr><td>52.001</td><td>14.874</td><td>78.3</td><td>S198</td><td>6.129</td><td>4.820</td><td>1.159</td><td>Open Manhole</td><td>1200</td></tr><tr><td>52.002</td><td>12.797</td><td>75.3</td><td>S199</td><td>5.992</td><td>4.650</td><td>1.192</td><td>Open Manhole</td><td>1200</td></tr><tr><td>52.003</td><td>7.578</td><td>126.3</td><td>S200</td><td>5.950</td><td>4.590</td><td>1.210</td><td>Open Manhole</td><td>1200</td></tr><tr><td>52.004</td><td>4.811</td><td>53.5</td><td>S201</td><td>5.950</td><td>4.500</td><td>1.300</td><td>Open Manhole</td><td>1200</td></tr><tr><td>48.014</td><td>23.863</td><td>477.3</td><td>S206</td><td>5.500</td><td>4.450</td><td>0.750</td><td>Open Manhole</td><td>1200</td></tr><tr><td>54.000</td><td>13.989</td><td>93.3</td><td>S204</td><td>5.850</td><td>4.800</td><td>0.900</td><td>Open Manhole</td><td>1200</td></tr><tr><td>54.001</td><td>8.454</td><td>28.2</td><td>S205</td><td>5.700</td><td>4.500</td><td>1.050</td><td>Open Manhole</td><td>1200</td></tr><tr><td>54.002</td><td>6.381</td><td>127.6</td><td>S206</td><td>5.500</td><td>4.450</td><td>0.900</td><td>Open Manhole</td><td>1200</td></tr><tr><td>48.015</td><td>22.453</td><td>60.7</td><td>S222</td><td>5.500</td><td>4.080</td><td>1.120</td><td>Open Manhole</td><td>1200</td></tr></tbody></table>				PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	48.012	o	300	S193	6.200	4.750	1.150	Open Manhole	1200	48.013	o	300	S194	6.150	4.630	1.220	Open Manhole	1200	52.000	o	150	S195	6.614	5.400	1.064	Open Manhole	1200	53.000	o	150	S196	6.450	5.400	0.900	Open Manhole	1200	52.001	o	150	S197	6.385	5.010	1.225	Open Manhole	1200	52.002	o	150	S198	6.129	4.820	1.159	Open Manhole	1200	52.003	o	150	S199	5.992	4.650	1.192	Open Manhole	1200	52.004	o	150	S200	5.950	4.590	1.210	Open Manhole	1200	48.014	o	300	S201	5.950	4.500	1.150	Open Manhole	1200	54.000	o	150	S203	6.000	4.950	0.900	Open Manhole	1200	54.001	o	150	S204	5.850	4.800	0.900	Open Manhole	1200	54.002	o	150	S205	5.700	4.500	1.050	Open Manhole	1200	48.015	o	300	S206	5.500	4.450	0.750	Open Manhole	1200	PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	48.012	18.379	153.2	S194	6.150	4.630	1.220	Open Manhole	1200	48.013	18.447	141.9	S201	5.950	4.500	1.150	Open Manhole	1200	52.000	14.874	38.1	S197	6.385	5.010	1.225	Open Manhole	1200	53.000	7.319	18.8	S197	6.385	5.010	1.225	Open Manhole	1200	52.001	14.874	78.3	S198	6.129	4.820	1.159	Open Manhole	1200	52.002	12.797	75.3	S199	5.992	4.650	1.192	Open Manhole	1200	52.003	7.578	126.3	S200	5.950	4.590	1.210	Open Manhole	1200	52.004	4.811	53.5	S201	5.950	4.500	1.300	Open Manhole	1200	48.014	23.863	477.3	S206	5.500	4.450	0.750	Open Manhole	1200	54.000	13.989	93.3	S204	5.850	4.800	0.900	Open Manhole	1200	54.001	8.454	28.2	S205	5.700	4.500	1.050	Open Manhole	1200	54.002	6.381	127.6	S206	5.500	4.450	0.900	Open Manhole	1200	48.015	22.453	60.7	S222	5.500	4.080	1.120	Open Manhole	1200
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																																																																																																																																																							
48.012	o	300	S193	6.200	4.750	1.150	Open Manhole	1200																																																																																																																																																																																																																																																							
48.013	o	300	S194	6.150	4.630	1.220	Open Manhole	1200																																																																																																																																																																																																																																																							
52.000	o	150	S195	6.614	5.400	1.064	Open Manhole	1200																																																																																																																																																																																																																																																							
53.000	o	150	S196	6.450	5.400	0.900	Open Manhole	1200																																																																																																																																																																																																																																																							
52.001	o	150	S197	6.385	5.010	1.225	Open Manhole	1200																																																																																																																																																																																																																																																							
52.002	o	150	S198	6.129	4.820	1.159	Open Manhole	1200																																																																																																																																																																																																																																																							
52.003	o	150	S199	5.992	4.650	1.192	Open Manhole	1200																																																																																																																																																																																																																																																							
52.004	o	150	S200	5.950	4.590	1.210	Open Manhole	1200																																																																																																																																																																																																																																																							
48.014	o	300	S201	5.950	4.500	1.150	Open Manhole	1200																																																																																																																																																																																																																																																							
54.000	o	150	S203	6.000	4.950	0.900	Open Manhole	1200																																																																																																																																																																																																																																																							
54.001	o	150	S204	5.850	4.800	0.900	Open Manhole	1200																																																																																																																																																																																																																																																							
54.002	o	150	S205	5.700	4.500	1.050	Open Manhole	1200																																																																																																																																																																																																																																																							
48.015	o	300	S206	5.500	4.450	0.750	Open Manhole	1200																																																																																																																																																																																																																																																							
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																																																																																																																																																							
48.012	18.379	153.2	S194	6.150	4.630	1.220	Open Manhole	1200																																																																																																																																																																																																																																																							
48.013	18.447	141.9	S201	5.950	4.500	1.150	Open Manhole	1200																																																																																																																																																																																																																																																							
52.000	14.874	38.1	S197	6.385	5.010	1.225	Open Manhole	1200																																																																																																																																																																																																																																																							
53.000	7.319	18.8	S197	6.385	5.010	1.225	Open Manhole	1200																																																																																																																																																																																																																																																							
52.001	14.874	78.3	S198	6.129	4.820	1.159	Open Manhole	1200																																																																																																																																																																																																																																																							
52.002	12.797	75.3	S199	5.992	4.650	1.192	Open Manhole	1200																																																																																																																																																																																																																																																							
52.003	7.578	126.3	S200	5.950	4.590	1.210	Open Manhole	1200																																																																																																																																																																																																																																																							
52.004	4.811	53.5	S201	5.950	4.500	1.300	Open Manhole	1200																																																																																																																																																																																																																																																							
48.014	23.863	477.3	S206	5.500	4.450	0.750	Open Manhole	1200																																																																																																																																																																																																																																																							
54.000	13.989	93.3	S204	5.850	4.800	0.900	Open Manhole	1200																																																																																																																																																																																																																																																							
54.001	8.454	28.2	S205	5.700	4.500	1.050	Open Manhole	1200																																																																																																																																																																																																																																																							
54.002	6.381	127.6	S206	5.500	4.450	0.900	Open Manhole	1200																																																																																																																																																																																																																																																							
48.015	22.453	60.7	S222	5.500	4.080	1.120	Open Manhole	1200																																																																																																																																																																																																																																																							
©1982-2020 Innovyze																																																																																																																																																																																																																																																															

RSK LDE		Page 63						
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		Drove Lane, Yapton Surface Water Network Calculations - FEH Data						
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...		Designed by AMuthusami Checked by						
XP Solutions		Network 2020.1.3						
PIPELINE SCHEDULES for Surface Network 1								
Upstream Manhole								
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
55.000	o	150	S207	7.068	5.650	1.268	Open Manhole	1200
56.000	o	150	S208a	7.225	5.875	1.200	Open Manhole	1050
55.001	o	150	S208	7.026	5.560	1.316	Open Manhole	1200
55.002	o	225	S209	6.950	5.435	1.290	Open Manhole	1200
55.003	o	225	S210	6.919	5.400	1.294	Open Manhole	1200
57.000	o	150	S211	6.925	5.705	1.070	Open Manhole	1200
55.004	o	225	S212	6.736	5.280	1.231	Open Manhole	1200
58.000	o	300	S213	6.867	5.450	1.117	Open Manhole	1200
55.005	o	300	S214	6.538	5.070	1.168	Open Manhole	1200
59.000	o	150	S215	6.680	5.230	1.300	Open Manhole	1200
55.006	o	300	S216	6.425	4.950	1.175	Open Manhole	1200
60.000	o	150	S217	5.979	4.700	1.129	Open Manhole	1200
Downstream Manhole								
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
55.000	10.492	116.6	S208	7.026	5.560	1.316	Open Manhole	1200
56.000	23.817	75.6	S208	7.026	5.560	1.316	Open Manhole	1200
55.001	8.119	162.4	S209	6.950	5.510	1.290	Open Manhole	1200
55.002	5.990	171.1	S210	6.919	5.400	1.294	Open Manhole	1200
55.003	22.156	184.6	S212	6.736	5.280	1.231	Open Manhole	1200
57.000	6.476	18.5	S212	6.736	5.355	1.231	Open Manhole	1200
55.004	23.506	174.1	S214	6.538	5.145	1.168	Open Manhole	1200
58.000	13.814	36.4	S214	6.538	5.070	1.168	Open Manhole	1200
55.005	14.419	120.2	S216	6.425	4.950	1.175	Open Manhole	1200
59.000	5.913	45.5	S216	6.425	5.100	1.175	Open Manhole	1200
55.006	35.195	80.0	S218	5.997	4.510	1.187	Open Manhole	1200
60.000	4.517	112.9	S218	5.997	4.660	1.187	Open Manhole	1200
©1982-2020 Innovyze								

RSK LDE		Page 64
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions	Network 2020.1.3	

PIPELINE SCHEDULES for Surface Network 1

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
55.007	o	300	S218	5.997	4.510	1.187	Open Manhole	1200
55.008	o	300	S219	5.767	4.260	1.207	Open Manhole	1200
55.009	o	300	S220	5.666	4.200	1.166	Open Manhole	1200
55.010	o	300	S221	5.500	4.100	1.100	Open Manhole	1200
48.016	o	300	S222	5.500	4.080	1.120	Open Manhole	1200
61.000	o	300	S223	5.636	4.140	1.196	Open Manhole	1200
61.001	o	300	S224	5.600	4.100	1.200	Open Manhole	1200
48.017	o	300	S225	5.500	4.080	1.120	Open Manhole	1200
62.000	o	150	S226	5.930	4.800	0.980	Open Manhole	1200
62.001	o	150	S227	5.500	4.545	0.805	Open Manhole	1200
62.002	o	150	S228	5.400	4.395	0.855	Open Manhole	1200
62.003	o	150	S229	5.300	4.350	0.800	Open Manhole	1200
48.018	o	300	S230	5.250	4.060	0.890	Open Manhole	1200
48.019	o	300	S231	5.200	4.040	0.860	Open Manhole	1200
48.020	o	300	S232	5.150	3.950	0.900	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
55.007	23.594	94.4	S219	5.767	4.260	1.207	Open Manhole	1200
55.008	9.979	166.3	S220	5.666	4.200	1.166	Open Manhole	1200
55.009	5.909	59.1	S221	5.500	4.100	1.100	Open Manhole	1200
55.010	4.450	222.5	S222	5.500	4.080	1.120	Open Manhole	1200
48.016	22.062	0.0	S225	5.500	4.080	1.120	Open Manhole	1200
61.000	6.067	151.7	S224	5.600	4.100	1.200	Open Manhole	1200
61.001	4.644	232.2	S225	5.500	4.080	1.120	Open Manhole	1200
48.017	25.461	1273.0	S230	5.250	4.060	0.890	Open Manhole	1200
62.000	15.485	60.7	S227	5.500	4.545	0.805	Open Manhole	1200
62.001	15.286	101.9	S228	5.400	4.395	0.855	Open Manhole	1200
62.002	6.494	144.3	S229	5.300	4.350	0.800	Open Manhole	1200
62.003	2.619	65.5	S230	5.250	4.310	0.790	Open Manhole	1200
48.018	5.411	270.6	S231	5.200	4.040	0.860	Open Manhole	1200
48.019	22.710	252.3	S232	5.150	3.950	0.900	Open Manhole	1200
48.020	10.353	207.1	S233	5.150	3.900	0.950	Open Manhole	1200

RSK LDE		Page 65																																																																																																																																																																																																																																																													
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																																																																																																																																																																													
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...		Designed by AMuthusami Checked by																																																																																																																																																																																																																																																													
XP Solutions		Network 2020.1.3																																																																																																																																																																																																																																																													
PIPELINE SCHEDULES for Surface Network 1 Upstream Manhole <table><thead><tr><th>PN</th><th>Hyd Sect</th><th>Diam (mm)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr></thead><tbody><tr><td>48.021</td><td>o</td><td>300</td><td>S233</td><td>5.150</td><td>3.900</td><td>0.950</td><td>Open Manhole</td><td>1200</td></tr><tr><td>63.000</td><td>o</td><td>150</td><td>S234</td><td>6.218</td><td>4.860</td><td>1.208</td><td>Open Manhole</td><td>1200</td></tr><tr><td>63.001</td><td>o</td><td>150</td><td>S235</td><td>6.050</td><td>4.670</td><td>1.230</td><td>Open Manhole</td><td>1200</td></tr><tr><td>64.000</td><td>o</td><td>150</td><td>S236</td><td>6.180</td><td>5.070</td><td>0.960</td><td>Open Manhole</td><td>1200</td></tr><tr><td>63.002</td><td>o</td><td>150</td><td>S237</td><td>5.966</td><td>4.580</td><td>1.236</td><td>Open Manhole</td><td>1200</td></tr><tr><td>65.000</td><td>o</td><td>150</td><td>S238</td><td>6.200</td><td>5.315</td><td>0.735</td><td>Open Manhole</td><td>1200</td></tr><tr><td>65.001</td><td>o</td><td>150</td><td>S239</td><td>5.952</td><td>4.600</td><td>1.202</td><td>Open Manhole</td><td>1200</td></tr><tr><td>63.003</td><td>o</td><td>300</td><td>S240</td><td>5.803</td><td>4.150</td><td>1.353</td><td>Open Manhole</td><td>1200</td></tr><tr><td>63.004</td><td>o</td><td>300</td><td>S241</td><td>5.694</td><td>4.070</td><td>1.324</td><td>Open Manhole</td><td>1200</td></tr><tr><td>66.000</td><td>o</td><td>150</td><td>S242</td><td>5.450</td><td>4.240</td><td>1.060</td><td>Open Manhole</td><td>600</td></tr><tr><td>63.005</td><td>o</td><td>300</td><td>S243</td><td>5.279</td><td>3.820</td><td>1.159</td><td>Open Manhole</td><td>1200</td></tr><tr><td>63.006</td><td>o</td><td>300</td><td>S244</td><td>5.172</td><td>3.770</td><td>1.102</td><td>Open Manhole</td><td>1200</td></tr><tr><td>63.007</td><td>o</td><td>300</td><td>S245</td><td>5.100</td><td>3.750</td><td>1.050</td><td>Open Manhole</td><td>1200</td></tr></tbody></table> Downstream Manhole <table><thead><tr><th>PN</th><th>Length (m)</th><th>Slope (1:X)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr></thead><tbody><tr><td>48.021</td><td>12.519</td><td>83.5</td><td>S246</td><td>5.000</td><td>3.750</td><td>0.950</td><td>Open Manhole</td><td>1200</td></tr><tr><td>63.000</td><td>20.274</td><td>106.7</td><td>S235</td><td>6.050</td><td>4.670</td><td>1.230</td><td>Open Manhole</td><td>1200</td></tr><tr><td>63.001</td><td>9.065</td><td>100.7</td><td>S237</td><td>5.966</td><td>4.580</td><td>1.236</td><td>Open Manhole</td><td>1200</td></tr><tr><td>64.000</td><td>5.788</td><td>11.8</td><td>S237</td><td>5.966</td><td>4.580</td><td>1.236</td><td>Open Manhole</td><td>1200</td></tr><tr><td>63.002</td><td>20.889</td><td>74.6</td><td>S240</td><td>5.803</td><td>4.300</td><td>1.353</td><td>Open Manhole</td><td>1200</td></tr><tr><td>65.000</td><td>7.286</td><td>10.2</td><td>S239</td><td>5.952</td><td>4.600</td><td>1.202</td><td>Open Manhole</td><td>1200</td></tr><tr><td>65.001</td><td>11.020</td><td>36.7</td><td>S240</td><td>5.803</td><td>4.300</td><td>1.353</td><td>Open Manhole</td><td>1200</td></tr><tr><td>63.003</td><td>11.398</td><td>142.5</td><td>S241</td><td>5.694</td><td>4.070</td><td>1.324</td><td>Open Manhole</td><td>1200</td></tr><tr><td>63.004</td><td>48.097</td><td>192.4</td><td>S243</td><td>5.279</td><td>3.820</td><td>1.159</td><td>Open Manhole</td><td>1200</td></tr><tr><td>66.000</td><td>5.957</td><td>22.1</td><td>S243</td><td>5.279</td><td>3.970</td><td>1.159</td><td>Open Manhole</td><td>1200</td></tr><tr><td>63.005</td><td>12.346</td><td>246.9</td><td>S244</td><td>5.172</td><td>3.770</td><td>1.102</td><td>Open Manhole</td><td>1200</td></tr><tr><td>63.006</td><td>5.698</td><td>284.9</td><td>S245</td><td>5.100</td><td>3.750</td><td>1.050</td><td>Open Manhole</td><td>1200</td></tr><tr><td>63.007</td><td>3.876</td><td>0.0</td><td>S246</td><td>5.000</td><td>3.750</td><td>0.950</td><td>Open Manhole</td><td>1200</td></tr></tbody></table>				PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	48.021	o	300	S233	5.150	3.900	0.950	Open Manhole	1200	63.000	o	150	S234	6.218	4.860	1.208	Open Manhole	1200	63.001	o	150	S235	6.050	4.670	1.230	Open Manhole	1200	64.000	o	150	S236	6.180	5.070	0.960	Open Manhole	1200	63.002	o	150	S237	5.966	4.580	1.236	Open Manhole	1200	65.000	o	150	S238	6.200	5.315	0.735	Open Manhole	1200	65.001	o	150	S239	5.952	4.600	1.202	Open Manhole	1200	63.003	o	300	S240	5.803	4.150	1.353	Open Manhole	1200	63.004	o	300	S241	5.694	4.070	1.324	Open Manhole	1200	66.000	o	150	S242	5.450	4.240	1.060	Open Manhole	600	63.005	o	300	S243	5.279	3.820	1.159	Open Manhole	1200	63.006	o	300	S244	5.172	3.770	1.102	Open Manhole	1200	63.007	o	300	S245	5.100	3.750	1.050	Open Manhole	1200	PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	48.021	12.519	83.5	S246	5.000	3.750	0.950	Open Manhole	1200	63.000	20.274	106.7	S235	6.050	4.670	1.230	Open Manhole	1200	63.001	9.065	100.7	S237	5.966	4.580	1.236	Open Manhole	1200	64.000	5.788	11.8	S237	5.966	4.580	1.236	Open Manhole	1200	63.002	20.889	74.6	S240	5.803	4.300	1.353	Open Manhole	1200	65.000	7.286	10.2	S239	5.952	4.600	1.202	Open Manhole	1200	65.001	11.020	36.7	S240	5.803	4.300	1.353	Open Manhole	1200	63.003	11.398	142.5	S241	5.694	4.070	1.324	Open Manhole	1200	63.004	48.097	192.4	S243	5.279	3.820	1.159	Open Manhole	1200	66.000	5.957	22.1	S243	5.279	3.970	1.159	Open Manhole	1200	63.005	12.346	246.9	S244	5.172	3.770	1.102	Open Manhole	1200	63.006	5.698	284.9	S245	5.100	3.750	1.050	Open Manhole	1200	63.007	3.876	0.0	S246	5.000	3.750	0.950	Open Manhole	1200
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																																																																																																																																																							
48.021	o	300	S233	5.150	3.900	0.950	Open Manhole	1200																																																																																																																																																																																																																																																							
63.000	o	150	S234	6.218	4.860	1.208	Open Manhole	1200																																																																																																																																																																																																																																																							
63.001	o	150	S235	6.050	4.670	1.230	Open Manhole	1200																																																																																																																																																																																																																																																							
64.000	o	150	S236	6.180	5.070	0.960	Open Manhole	1200																																																																																																																																																																																																																																																							
63.002	o	150	S237	5.966	4.580	1.236	Open Manhole	1200																																																																																																																																																																																																																																																							
65.000	o	150	S238	6.200	5.315	0.735	Open Manhole	1200																																																																																																																																																																																																																																																							
65.001	o	150	S239	5.952	4.600	1.202	Open Manhole	1200																																																																																																																																																																																																																																																							
63.003	o	300	S240	5.803	4.150	1.353	Open Manhole	1200																																																																																																																																																																																																																																																							
63.004	o	300	S241	5.694	4.070	1.324	Open Manhole	1200																																																																																																																																																																																																																																																							
66.000	o	150	S242	5.450	4.240	1.060	Open Manhole	600																																																																																																																																																																																																																																																							
63.005	o	300	S243	5.279	3.820	1.159	Open Manhole	1200																																																																																																																																																																																																																																																							
63.006	o	300	S244	5.172	3.770	1.102	Open Manhole	1200																																																																																																																																																																																																																																																							
63.007	o	300	S245	5.100	3.750	1.050	Open Manhole	1200																																																																																																																																																																																																																																																							
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																																																																																																																																																							
48.021	12.519	83.5	S246	5.000	3.750	0.950	Open Manhole	1200																																																																																																																																																																																																																																																							
63.000	20.274	106.7	S235	6.050	4.670	1.230	Open Manhole	1200																																																																																																																																																																																																																																																							
63.001	9.065	100.7	S237	5.966	4.580	1.236	Open Manhole	1200																																																																																																																																																																																																																																																							
64.000	5.788	11.8	S237	5.966	4.580	1.236	Open Manhole	1200																																																																																																																																																																																																																																																							
63.002	20.889	74.6	S240	5.803	4.300	1.353	Open Manhole	1200																																																																																																																																																																																																																																																							
65.000	7.286	10.2	S239	5.952	4.600	1.202	Open Manhole	1200																																																																																																																																																																																																																																																							
65.001	11.020	36.7	S240	5.803	4.300	1.353	Open Manhole	1200																																																																																																																																																																																																																																																							
63.003	11.398	142.5	S241	5.694	4.070	1.324	Open Manhole	1200																																																																																																																																																																																																																																																							
63.004	48.097	192.4	S243	5.279	3.820	1.159	Open Manhole	1200																																																																																																																																																																																																																																																							
66.000	5.957	22.1	S243	5.279	3.970	1.159	Open Manhole	1200																																																																																																																																																																																																																																																							
63.005	12.346	246.9	S244	5.172	3.770	1.102	Open Manhole	1200																																																																																																																																																																																																																																																							
63.006	5.698	284.9	S245	5.100	3.750	1.050	Open Manhole	1200																																																																																																																																																																																																																																																							
63.007	3.876	0.0	S246	5.000	3.750	0.950	Open Manhole	1200																																																																																																																																																																																																																																																							
©1982-2020 Innovyze																																																																																																																																																																																																																																																															

RSK LDE		Page 66
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions	Network 2020.1.3	

PIPELINE SCHEDULES for Surface Network 1

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
48.022	o	300	S246	5.000	3.750	0.950	Open Manhole	1200
67.000	o	150	S247	5.250	4.330	0.770	Open Manhole	1200
67.001	o	150	S248	5.100	4.250	0.700	Open Manhole	1200
48.023	o	300	S249	4.500	3.750	0.450	Open Manhole	1200
1.027	o	300	S250	4.450	3.700	0.450	Open Manhole	1200
1.028	o	300	S251	4.450	3.650	0.500	Open Manhole	1800

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
48.022	32.579	0.0	S249	4.500	3.750	0.450	Open Manhole	1200
67.000	11.089	138.6	S248	5.100	4.250	0.700	Open Manhole	1200
67.001	22.582	64.5	S249	4.500	3.900	0.450	Open Manhole	1200
48.023	9.002	180.0	S250	4.450	3.700	0.450	Open Manhole	1200
1.027	9.559	191.2	S251	4.450	3.650	0.500	Open Manhole	1800
1.028	4.451	89.0	S252	4.450	3.600	0.550	Open Manhole	1200

Surcharged Outfall Details for Surface Network 1

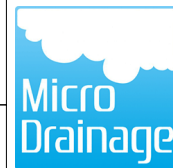
Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
---------------------	--------------	--------------	--------------	------------------	----------	--------

1.028	S252	4.450	3.600	0.000	1200	0
-------	------	-------	-------	-------	------	---

Datum (m) 0.000 Offset (mins) 0

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
100	4.000	900	4.000	1700	4.000	2500	4.000	3300	4.000	4100	4.000
200	4.000	1000	4.000	1800	4.000	2600	4.000	3400	4.000	4200	4.000
300	4.000	1100	4.000	1900	4.000	2700	4.000	3500	4.000	4300	4.000
400	4.000	1200	4.000	2000	4.000	2800	4.000	3600	4.000	4400	4.000
500	4.000	1300	4.000	2100	4.000	2900	4.000	3700	4.000	4500	4.000
600	4.000	1400	4.000	2200	4.000	3000	4.000	3800	4.000	4600	4.000
700	4.000	1500	4.000	2300	4.000	3100	4.000	3900	4.000	4700	4.000
800	4.000	1600	4.000	2400	4.000	3200	4.000	4000	4.000	4800	4.000

RSK LDE				Page 67																																																																																																																																																																																																																																																																																			
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT				Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																																																																																																																																																																																																			
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...				Designed by AMuthusami Checked by																																																																																																																																																																																																																																																																																			
XP Solutions				Network 2020.1.3																																																																																																																																																																																																																																																																																			
<u>Surcharged Outfall Details for Surface Network 1</u> <table><tr><th>Time (mins)</th><th>Depth (m)</th><th>Time (mins)</th><th>Depth (m)</th><th>Time (mins)</th><th>Depth (m)</th><th>Time (mins)</th><th>Depth (m)</th><th>Time (mins)</th><th>Depth (m)</th></tr><tr><td>4900</td><td>4.000</td><td>7500</td><td>4.000</td><td>10100</td><td>4.000</td><td>12700</td><td>4.000</td><td>15300</td><td>4.000</td></tr><tr><td>5000</td><td>4.000</td><td>7600</td><td>4.000</td><td>10200</td><td>4.000</td><td>12800</td><td>4.000</td><td>15400</td><td>4.000</td></tr><tr><td>5100</td><td>4.000</td><td>7700</td><td>4.000</td><td>10300</td><td>4.000</td><td>12900</td><td>4.000</td><td>15500</td><td>4.000</td></tr><tr><td>5200</td><td>4.000</td><td>7800</td><td>4.000</td><td>10400</td><td>4.000</td><td>13000</td><td>4.000</td><td>15600</td><td>4.000</td></tr><tr><td>5300</td><td>4.000</td><td>7900</td><td>4.000</td><td>10500</td><td>4.000</td><td>13100</td><td>4.000</td><td>15700</td><td>4.000</td></tr><tr><td>5400</td><td>4.000</td><td>8000</td><td>4.000</td><td>10600</td><td>4.000</td><td>13200</td><td>4.000</td><td>15800</td><td>4.000</td></tr><tr><td>5500</td><td>4.000</td><td>8100</td><td>4.000</td><td>10700</td><td>4.000</td><td>13300</td><td>4.000</td><td>15900</td><td>4.000</td></tr><tr><td>5600</td><td>4.000</td><td>8200</td><td>4.000</td><td>10800</td><td>4.000</td><td>13400</td><td>4.000</td><td>16000</td><td>4.000</td></tr><tr><td>5700</td><td>4.000</td><td>8300</td><td>4.000</td><td>10900</td><td>4.000</td><td>13500</td><td>4.000</td><td>16100</td><td>4.000</td></tr><tr><td>5800</td><td>4.000</td><td>8400</td><td>4.000</td><td>11000</td><td>4.000</td><td>13600</td><td>4.000</td><td>16200</td><td>4.000</td></tr><tr><td>5900</td><td>4.000</td><td>8500</td><td>4.000</td><td>11100</td><td>4.000</td><td>13700</td><td>4.000</td><td>16300</td><td>4.000</td></tr><tr><td>6000</td><td>4.000</td><td>8600</td><td>4.000</td><td>11200</td><td>4.000</td><td>13800</td><td>4.000</td><td>16400</td><td>4.000</td></tr><tr><td>6100</td><td>4.000</td><td>8700</td><td>4.000</td><td>11300</td><td>4.000</td><td>13900</td><td>4.000</td><td>16500</td><td>4.000</td></tr><tr><td>6200</td><td>4.000</td><td>8800</td><td>4.000</td><td>11400</td><td>4.000</td><td>14000</td><td>4.000</td><td>16600</td><td>4.000</td></tr><tr><td>6300</td><td>4.000</td><td>8900</td><td>4.000</td><td>11500</td><td>4.000</td><td>14100</td><td>4.000</td><td>16700</td><td>4.000</td></tr><tr><td>6400</td><td>4.000</td><td>9000</td><td>4.000</td><td>11600</td><td>4.000</td><td>14200</td><td>4.000</td><td>16800</td><td>4.000</td></tr><tr><td>6500</td><td>4.000</td><td>9100</td><td>4.000</td><td>11700</td><td>4.000</td><td>14300</td><td>4.000</td><td>16900</td><td>4.000</td></tr><tr><td>6600</td><td>4.000</td><td>9200</td><td>4.000</td><td>11800</td><td>4.000</td><td>14400</td><td>4.000</td><td>17000</td><td>4.000</td></tr><tr><td>6700</td><td>4.000</td><td>9300</td><td>4.000</td><td>11900</td><td>4.000</td><td>14500</td><td>4.000</td><td>17100</td><td>4.000</td></tr><tr><td>6800</td><td>4.000</td><td>9400</td><td>4.000</td><td>12000</td><td>4.000</td><td>14600</td><td>4.000</td><td>17200</td><td>4.000</td></tr><tr><td>6900</td><td>4.000</td><td>9500</td><td>4.000</td><td>12100</td><td>4.000</td><td>14700</td><td>4.000</td><td>17300</td><td>4.000</td></tr><tr><td>7000</td><td>4.000</td><td>9600</td><td>4.000</td><td>12200</td><td>4.000</td><td>14800</td><td>4.000</td><td>17400</td><td>4.000</td></tr><tr><td>7100</td><td>4.000</td><td>9700</td><td>4.000</td><td>12300</td><td>4.000</td><td>14900</td><td>4.000</td><td>17500</td><td>4.000</td></tr><tr><td>7200</td><td>4.000</td><td>9800</td><td>4.000</td><td>12400</td><td>4.000</td><td>15000</td><td>4.000</td><td>17600</td><td>4.000</td></tr><tr><td>7300</td><td>4.000</td><td>9900</td><td>4.000</td><td>12500</td><td>4.000</td><td>15100</td><td>4.000</td><td>17700</td><td>4.000</td></tr><tr><td>7400</td><td>4.000</td><td>10000</td><td>4.000</td><td>12600</td><td>4.000</td><td>15200</td><td>4.000</td><td>17800</td><td>4.000</td></tr></table>										Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	4900	4.000	7500	4.000	10100	4.000	12700	4.000	15300	4.000	5000	4.000	7600	4.000	10200	4.000	12800	4.000	15400	4.000	5100	4.000	7700	4.000	10300	4.000	12900	4.000	15500	4.000	5200	4.000	7800	4.000	10400	4.000	13000	4.000	15600	4.000	5300	4.000	7900	4.000	10500	4.000	13100	4.000	15700	4.000	5400	4.000	8000	4.000	10600	4.000	13200	4.000	15800	4.000	5500	4.000	8100	4.000	10700	4.000	13300	4.000	15900	4.000	5600	4.000	8200	4.000	10800	4.000	13400	4.000	16000	4.000	5700	4.000	8300	4.000	10900	4.000	13500	4.000	16100	4.000	5800	4.000	8400	4.000	11000	4.000	13600	4.000	16200	4.000	5900	4.000	8500	4.000	11100	4.000	13700	4.000	16300	4.000	6000	4.000	8600	4.000	11200	4.000	13800	4.000	16400	4.000	6100	4.000	8700	4.000	11300	4.000	13900	4.000	16500	4.000	6200	4.000	8800	4.000	11400	4.000	14000	4.000	16600	4.000	6300	4.000	8900	4.000	11500	4.000	14100	4.000	16700	4.000	6400	4.000	9000	4.000	11600	4.000	14200	4.000	16800	4.000	6500	4.000	9100	4.000	11700	4.000	14300	4.000	16900	4.000	6600	4.000	9200	4.000	11800	4.000	14400	4.000	17000	4.000	6700	4.000	9300	4.000	11900	4.000	14500	4.000	17100	4.000	6800	4.000	9400	4.000	12000	4.000	14600	4.000	17200	4.000	6900	4.000	9500	4.000	12100	4.000	14700	4.000	17300	4.000	7000	4.000	9600	4.000	12200	4.000	14800	4.000	17400	4.000	7100	4.000	9700	4.000	12300	4.000	14900	4.000	17500	4.000	7200	4.000	9800	4.000	12400	4.000	15000	4.000	17600	4.000	7300	4.000	9900	4.000	12500	4.000	15100	4.000	17700	4.000	7400	4.000	10000	4.000	12600	4.000	15200	4.000	17800	4.000
Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)																																																																																																																																																																																																																																																																														
4900	4.000	7500	4.000	10100	4.000	12700	4.000	15300	4.000																																																																																																																																																																																																																																																																														
5000	4.000	7600	4.000	10200	4.000	12800	4.000	15400	4.000																																																																																																																																																																																																																																																																														
5100	4.000	7700	4.000	10300	4.000	12900	4.000	15500	4.000																																																																																																																																																																																																																																																																														
5200	4.000	7800	4.000	10400	4.000	13000	4.000	15600	4.000																																																																																																																																																																																																																																																																														
5300	4.000	7900	4.000	10500	4.000	13100	4.000	15700	4.000																																																																																																																																																																																																																																																																														
5400	4.000	8000	4.000	10600	4.000	13200	4.000	15800	4.000																																																																																																																																																																																																																																																																														
5500	4.000	8100	4.000	10700	4.000	13300	4.000	15900	4.000																																																																																																																																																																																																																																																																														
5600	4.000	8200	4.000	10800	4.000	13400	4.000	16000	4.000																																																																																																																																																																																																																																																																														
5700	4.000	8300	4.000	10900	4.000	13500	4.000	16100	4.000																																																																																																																																																																																																																																																																														
5800	4.000	8400	4.000	11000	4.000	13600	4.000	16200	4.000																																																																																																																																																																																																																																																																														
5900	4.000	8500	4.000	11100	4.000	13700	4.000	16300	4.000																																																																																																																																																																																																																																																																														
6000	4.000	8600	4.000	11200	4.000	13800	4.000	16400	4.000																																																																																																																																																																																																																																																																														
6100	4.000	8700	4.000	11300	4.000	13900	4.000	16500	4.000																																																																																																																																																																																																																																																																														
6200	4.000	8800	4.000	11400	4.000	14000	4.000	16600	4.000																																																																																																																																																																																																																																																																														
6300	4.000	8900	4.000	11500	4.000	14100	4.000	16700	4.000																																																																																																																																																																																																																																																																														
6400	4.000	9000	4.000	11600	4.000	14200	4.000	16800	4.000																																																																																																																																																																																																																																																																														
6500	4.000	9100	4.000	11700	4.000	14300	4.000	16900	4.000																																																																																																																																																																																																																																																																														
6600	4.000	9200	4.000	11800	4.000	14400	4.000	17000	4.000																																																																																																																																																																																																																																																																														
6700	4.000	9300	4.000	11900	4.000	14500	4.000	17100	4.000																																																																																																																																																																																																																																																																														
6800	4.000	9400	4.000	12000	4.000	14600	4.000	17200	4.000																																																																																																																																																																																																																																																																														
6900	4.000	9500	4.000	12100	4.000	14700	4.000	17300	4.000																																																																																																																																																																																																																																																																														
7000	4.000	9600	4.000	12200	4.000	14800	4.000	17400	4.000																																																																																																																																																																																																																																																																														
7100	4.000	9700	4.000	12300	4.000	14900	4.000	17500	4.000																																																																																																																																																																																																																																																																														
7200	4.000	9800	4.000	12400	4.000	15000	4.000	17600	4.000																																																																																																																																																																																																																																																																														
7300	4.000	9900	4.000	12500	4.000	15100	4.000	17700	4.000																																																																																																																																																																																																																																																																														
7400	4.000	10000	4.000	12600	4.000	15200	4.000	17800	4.000																																																																																																																																																																																																																																																																														
©1982-2020 Innovyze																																																																																																																																																																																																																																																																																							



RSK LDE		Page 68
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Online Controls for Surface Network 1

Hydro-Brake® Optimum Manhole: S22, DS/PN: 6.002, Volume (m³): 2.1

Unit Reference	MD-SHE-0045-1000-1200-1000
Design Head (m)	1.200
Design Flow (l/s)	1.0
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	45
Invert Level (m)	5.620
Minimum Outlet Pipe Diameter (mm)	75
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.200	1.0
Flush-Flo™	0.196	0.7
Kick-Flo®	0.398	0.6
Mean Flow over Head Range	-	0.8

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	0.7	1.200	1.0	3.000	1.5	7.000	2.2
0.200	0.7	1.400	1.1	3.500	1.6	7.500	2.3
0.300	0.7	1.600	1.1	4.000	1.7	8.000	2.4
0.400	0.6	1.800	1.2	4.500	1.8	8.500	2.4
0.500	0.7	2.000	1.3	5.000	1.9	9.000	2.5
0.600	0.7	2.200	1.3	5.500	2.0	9.500	2.6
0.800	0.8	2.400	1.4	6.000	2.1		
1.000	0.9	2.600	1.4	6.500	2.2		

Hydro-Brake® Optimum Manhole: S32, DS/PN: 1.006, Volume (m³): 5.4

Unit Reference	MD-SHE-0103-5000-1200-5000
Design Head (m)	1.200
Design Flow (l/s)	5.0
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	103
Invert Level (m)	5.150
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

©1982-2020 Innovyze

RSK LDE

Page 69

18 Frogmore Road

Hemel Hempstead

Hertfordshire HP3 9RT

Drove Lane, Yapton

Surface Water Network

Calculations - FEH Data

Date 24/09/2021 15:48

File 133981 - Drove Lane, Ya...

Designed by AMuthusami

Checked by

XP Solutions

Network 2020.1.3

Hydro-Brake® Optimum Manhole: S32, DS/PN: 1.006, Volume (m³): 5.4

Control Points

Head (m)

Flow (l/s)

Design Point (Calculated)

1.200

5.0

Flush-Flo™

0.354

5.0

Kick-Flo®

0.745

4.0

Mean Flow over Head Range

-

4.4

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)

Flow (l/s)

Depth (m)

Flow (l/s)

Depth (m)

Flow (l/s)

Depth (m)

Flow (l/s)

0.100

3.4

1.200

5.0

3.000

7.7

7.000

11.5

0.200

4.7

1.400

5.4

3.500

8.3

7.500

11.8

0.300

5.0

1.600

5.7

4.000

8.8

8.000

12.2

0.400

5.0

1.800

6.0

4.500

9.3

8.500

12.6

0.500

4.9

2.000

6.3

5.000

9.8

9.000

12.9

0.600

4.7

2.200

6.6

5.500

10.2

9.500

13.3

0.800

4.1

2.400

6.9

6.000

10.7

1.000

4.6

2.600

7.2

6.500

11.1

Orifice Manhole: S38, DS/PN: 1.009, Volume (m³): 1.5

Diameter (m)

0.077

Discharge Coefficient

0.600

Invert Level (m)

5.120

Hydro-Brake® Optimum Manhole: S48, DS/PN: 1.011, Volume (m³): 2.2

Unit Reference

MD-SHE-0136-9000-1200-9000

Design Head (m)

1.200

Design Flow (l/s)

9.0

Flush-Flo™

Calculated

Objective

Minimise upstream storage

Application

Surface

Sump Available

Yes

Diameter (mm)

136

Invert Level (m)

4.850

Minimum Outlet Pipe Diameter (mm)

150

Suggested Manhole Diameter (mm)

1200

Control Points

Head (m)

Flow (l/s)

Design Point (Calculated)

1.200

9.0

Flush-Flo™

0.354

9.0

Kick-Flo®

0.769

7.3

Mean Flow over Head Range

-

7.8

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

©1982-2020 Innovyze

RSK LDE		Page 70													
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data														
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by														
XP Solutions Network 2020.1.3															
<u>Hydro-Brake® Optimum Manhole: S48, DS/PN: 1.011, Volume (m³): 2.2</u>															
Depth (m) Flow (l/s)	Depth (m) Flow (l/s)	Depth (m) Flow (l/s)	Depth (m) Flow (l/s)												
0.100 4.9	1.200 9.0	3.000 13.9	7.000 20.8												
0.200 8.5	1.400 9.7	3.500 14.9	7.500 21.5												
0.300 8.9	1.600 10.3	4.000 15.9	8.000 22.2												
0.400 9.0	1.800 10.9	4.500 16.8	8.500 22.8												
0.500 8.8	2.000 11.4	5.000 17.7	9.000 23.5												
0.600 8.5	2.200 12.0	5.500 18.5	9.500 24.1												
0.800 7.4	2.400 12.5	6.000 19.3													
1.000 8.3	2.600 13.0	6.500 20.1													
<u>Orifice Manhole: S50, DS/PN: 1.013, Volume (m³): 1.9</u>															
Diameter (m) 0.077 Discharge Coefficient 0.600 Invert Level (m) 4.714															
<u>Orifice Manhole: S77, DS/PN: 1.019, Volume (m³): 1.9</u>															
Diameter (m) 0.073 Discharge Coefficient 0.600 Invert Level (m) 4.150															
<u>Orifice Manhole: S88, DS/PN: 20.007, Volume (m³): 2.3</u>															
Diameter (m) 0.053 Discharge Coefficient 0.600 Invert Level (m) 5.030															
<u>Orifice Manhole: S104, DS/PN: 20.010, Volume (m³): 2.3</u>															
Diameter (m) 0.077 Discharge Coefficient 0.600 Invert Level (m) 4.915															
<u>Orifice Manhole: S110, DS/PN: 20.012, Volume (m³): 3.3</u>															
Diameter (m) 0.047 Discharge Coefficient 0.600 Invert Level (m) 4.750															
<u>Hydro-Brake® Optimum Manhole: S127, DS/PN: 20.013, Volume (m³): 4.7</u>															
Unit Reference MD-SHE-0143-1000-1200-1000															
Design Head (m) 1.200															
Design Flow (l/s) 10.0															
Flush-Flo™ Calculated															
Objective Minimise upstream storage															
Application Surface															
Sump Available Yes															
Diameter (mm) 143															
Invert Level (m) 4.640															
Minimum Outlet Pipe Diameter (mm) 225															
Suggested Manhole Diameter (mm) 1200															
<table><tr><td>Control Points</td><td>Head (m)</td><td>Flow (l/s)</td></tr><tr><td>Design Point (Calculated)</td><td>1.200</td><td>10.0</td></tr><tr><td>Flush-Flo™</td><td>0.357</td><td>10.0</td></tr><tr><td>Kick-Flo®</td><td>0.778</td><td>8.2</td></tr></table>				Control Points	Head (m)	Flow (l/s)	Design Point (Calculated)	1.200	10.0	Flush-Flo™	0.357	10.0	Kick-Flo®	0.778	8.2
Control Points	Head (m)	Flow (l/s)													
Design Point (Calculated)	1.200	10.0													
Flush-Flo™	0.357	10.0													
Kick-Flo®	0.778	8.2													
©1982-2020 Innovyze															

RSK LDE		Page 71
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Hydro-Brake® Optimum Manhole: S127, DS/PN: 20.013, Volume (m³): 4.7

Control Points	Head (m)	Flow (l/s)
Mean Flow over Head Range	-	8.7

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	5.1	1.200	10.0	3.000	15.4	7.000	23.2
0.200	9.4	1.400	10.8	3.500	16.6	7.500	23.9
0.300	9.9	1.600	11.5	4.000	17.7	8.000	24.7
0.400	10.0	1.800	12.1	4.500	18.7	8.500	25.4
0.500	9.8	2.000	12.7	5.000	19.7	9.000	26.1
0.600	9.5	2.200	13.3	5.500	20.6	9.500	26.8
0.800	8.3	2.400	13.9	6.000	21.5		
1.000	9.2	2.600	14.4	6.500	22.3		

Orifice Manhole: S130, DS/PN: 20.014, Volume (m³): 3.4

Diameter (m) 0.092 Discharge Coefficient 0.600 Invert Level (m) 4.600

Hydro-Brake® Optimum Manhole: S136, DS/PN: 20.016, Volume (m³): 4.1

Unit Reference	MD-SHE-0125-7500-1200-7500
Design Head (m)	1.200
Design Flow (l/s)	7.5
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	125
Invert Level (m)	4.460
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.200	7.5
Flush-Flo™	0.356	7.5
Kick-Flo®	0.763	6.1
Mean Flow over Head Range	-	6.5

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

©1982-2020 Innovyze

RSK LDE		Page 72																																																																								
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																									
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by																																																																									
XP Solutions	Network 2020.1.3																																																																									
<u>Hydro-Brake® Optimum Manhole: S136, DS/PN: 20.016, Volume (m³): 4.1</u> <table><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.100</td><td>4.5</td><td>1.200</td><td>7.5</td><td>3.000</td><td>11.5</td><td>7.000</td><td>17.3</td></tr><tr><td>0.200</td><td>7.1</td><td>1.400</td><td>8.1</td><td>3.500</td><td>12.4</td><td>7.500</td><td>17.9</td></tr><tr><td>0.300</td><td>7.5</td><td>1.600</td><td>8.6</td><td>4.000</td><td>13.2</td><td>8.000</td><td>18.4</td></tr><tr><td>0.400</td><td>7.5</td><td>1.800</td><td>9.1</td><td>4.500</td><td>14.0</td><td>8.500</td><td>19.0</td></tr><tr><td>0.500</td><td>7.4</td><td>2.000</td><td>9.5</td><td>5.000</td><td>14.7</td><td>9.000</td><td>19.5</td></tr><tr><td>0.600</td><td>7.1</td><td>2.200</td><td>10.0</td><td>5.500</td><td>15.4</td><td>9.500</td><td>20.0</td></tr><tr><td>0.800</td><td>6.2</td><td>2.400</td><td>10.4</td><td>6.000</td><td>16.1</td><td></td><td></td></tr><tr><td>1.000</td><td>6.9</td><td>2.600</td><td>10.8</td><td>6.500</td><td>16.7</td><td></td><td></td></tr></table> <u>Orifice Manhole: S144, DS/PN: 20.018, Volume (m³): 2.8</u> Diameter (m) 0.077 Discharge Coefficient 0.600 Invert Level (m) 4.400 <u>Orifice Manhole: S164, DS/PN: 1.022, Volume (m³): 4.6</u> Diameter (m) 0.096 Discharge Coefficient 0.600 Invert Level (m) 3.835 <u>Orifice Manhole: S166, DS/PN: 1.024, Volume (m³): 4.9</u> Diameter (m) 0.112 Discharge Coefficient 0.600 Invert Level (m) 3.835 <u>Orifice Manhole: S176, DS/PN: 1.025, Volume (m³): 4.2</u> Diameter (m) 0.142 Discharge Coefficient 0.600 Invert Level (m) 3.720 <u>Orifice Manhole: S180, DS/PN: 48.002, Volume (m³): 1.4</u> Diameter (m) 0.053 Discharge Coefficient 0.600 Invert Level (m) 5.764 <u>Orifice Manhole: S189, DS/PN: 48.010, Volume (m³): 2.8</u> Diameter (m) 0.096 Discharge Coefficient 0.600 Invert Level (m) 4.820 <u>Orifice Manhole: S193, DS/PN: 48.012, Volume (m³): 2.4</u> Diameter (m) 0.077 Discharge Coefficient 0.600 Invert Level (m) 4.750 <u>Orifice Manhole: S201, DS/PN: 48.014, Volume (m³): 2.9</u> Diameter (m) 0.077 Discharge Coefficient 0.600 Invert Level (m) 4.500 <u>Orifice Manhole: S225, DS/PN: 48.017, Volume (m³): 3.3</u> Diameter (m) 0.077 Discharge Coefficient 0.600 Invert Level (m) 4.080			Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	0.100	4.5	1.200	7.5	3.000	11.5	7.000	17.3	0.200	7.1	1.400	8.1	3.500	12.4	7.500	17.9	0.300	7.5	1.600	8.6	4.000	13.2	8.000	18.4	0.400	7.5	1.800	9.1	4.500	14.0	8.500	19.0	0.500	7.4	2.000	9.5	5.000	14.7	9.000	19.5	0.600	7.1	2.200	10.0	5.500	15.4	9.500	20.0	0.800	6.2	2.400	10.4	6.000	16.1			1.000	6.9	2.600	10.8	6.500	16.7		
Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)																																																																			
0.100	4.5	1.200	7.5	3.000	11.5	7.000	17.3																																																																			
0.200	7.1	1.400	8.1	3.500	12.4	7.500	17.9																																																																			
0.300	7.5	1.600	8.6	4.000	13.2	8.000	18.4																																																																			
0.400	7.5	1.800	9.1	4.500	14.0	8.500	19.0																																																																			
0.500	7.4	2.000	9.5	5.000	14.7	9.000	19.5																																																																			
0.600	7.1	2.200	10.0	5.500	15.4	9.500	20.0																																																																			
0.800	6.2	2.400	10.4	6.000	16.1																																																																					
1.000	6.9	2.600	10.8	6.500	16.7																																																																					
©1982-2020 Innovyze																																																																										

RSK LDE		Page 73
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Orifice Manhole: S246, DS/PN: 48.022, Volume (m³): 2.4

Diameter (m) 0.106 Discharge Coefficient 0.600 Invert Level (m) 3.750

Hydro-Brake® Optimum Manhole: S251, DS/PN: 1.028, Volume (m³): 2.6

Unit Reference	MD-SHE-0195-1820-0600-1820
Design Head (m)	0.600
Design Flow (l/s)	18.2
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	195
Invert Level (m)	3.650
Minimum Outlet Pipe Diameter (mm)	225
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.600	18.2
Flush-Flo™	0.289	18.2
Kick-Flo®	0.485	16.5
Mean Flow over Head Range	-	14.3

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	6.8	1.200	25.3	3.000	39.4	7.000	59.1
0.200	17.7	1.400	27.3	3.500	42.4	7.500	61.2
0.300	18.2	1.600	29.1	4.000	45.2	8.000	63.2
0.400	17.7	1.800	30.8	4.500	47.9	8.500	65.2
0.500	16.7	2.000	32.4	5.000	50.4	9.000	67.1
0.600	18.2	2.200	33.9	5.500	52.8	9.500	68.9
0.800	20.9	2.400	35.3	6.000	55.1		
1.000	23.2	2.600	36.7	6.500	56.9		

©1982-2020 Innovyze

RSK LDE		Page 74
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions		

RSK LDE		Page 75
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Swale Manhole: S17, DS/PN: 3.005

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	23.8
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	4.0
Safety Factor	2.0	Slope (1:X)	200.0
Porosity	0.30	Cap Volume Depth (m)	7.000
Invert Level (m)	5.700	Cap Infiltration Depth (m)	7.000
Base Width (m)	2.4	Include Swale Volume	Yes

Porous Car Park Manhole: S20, DS/PN: 3.007

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.1
Membrane Percolation (mm/hr)	1000	Length (m)	10.0
Max Percolation (l/s)	14.2	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.650	Cap Volume Depth (m)	0.450

Complex Manhole: S255, DS/PN: 6.000

Cellular Storage

Invert Level (m)	5.620	Safety Factor	1.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95
Infiltration Coefficient Side (m/hr)	0.00000		

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	81.0	108.0	0.900	0.0	146.4
0.800	81.0	146.4			

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	33.0
Max Percolation (l/s)	91.7	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.420	Cap Volume Depth (m)	0.450

Porous Car Park Manhole: S23, DS/PN: 7.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	43.2
Max Percolation (l/s)	120.0	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.500	Cap Volume Depth (m)	0.450

©1982-2020 Innovyze

RSK LDE		Page 76																																																																																																																								
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																																									
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by																																																																																																																									
XP Solutions Network 2020.1.3																																																																																																																										
<u>Porous Car Park Manhole: S27, DS/PN: 3.011</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>22.1</td></tr><tr><td>Max Percolation (l/s)</td><td>61.4</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.100</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S29, DS/PN: 8.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>24.5</td></tr><tr><td>Max Percolation (l/s)</td><td>68.1</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.900</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S33, DS/PN: 9.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>38.4</td></tr><tr><td>Max Percolation (l/s)</td><td>106.7</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.750</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S34, DS/PN: 10.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>42.6</td></tr><tr><td>Max Percolation (l/s)</td><td>118.3</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.700</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Complex Manhole: S36, DS/PN: 1.007</u> <u>Swale</u> Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Length (m)</td><td>75.0</td></tr><tr><td>Infiltration Coefficient Side (m/hr)</td><td>0.00000</td><td>Side Slope (1:X)</td><td>4.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Slope (1:X)</td><td>359.0</td></tr><tr><td>Porosity</td><td>0.30</td><td>Cap Volume Depth (m)</td><td>1.650</td></tr><tr><td>Invert Level (m)</td><td>5.120</td><td>Cap Infiltration Depth (m)</td><td>0.000</td></tr><tr><td>Base Width (m)</td><td>2.5</td><td>Include Swale Volume</td><td>Yes</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	22.1	Max Percolation (l/s)	61.4	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.100	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	24.5	Max Percolation (l/s)	68.1	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.900	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	38.4	Max Percolation (l/s)	106.7	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.750	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	42.6	Max Percolation (l/s)	118.3	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.700	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	75.0	Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	4.0	Safety Factor	2.0	Slope (1:X)	359.0	Porosity	0.30	Cap Volume Depth (m)	1.650	Invert Level (m)	5.120	Cap Infiltration Depth (m)	0.000	Base Width (m)	2.5	Include Swale Volume	Yes
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																							
Membrane Percolation (mm/hr)	1000	Length (m)	22.1																																																																																																																							
Max Percolation (l/s)	61.4	Slope (1:X)	100.0																																																																																																																							
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																							
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																							
Invert Level (m)	6.100	Cap Volume Depth (m)	0.450																																																																																																																							
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																							
Membrane Percolation (mm/hr)	1000	Length (m)	24.5																																																																																																																							
Max Percolation (l/s)	68.1	Slope (1:X)	100.0																																																																																																																							
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																							
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																							
Invert Level (m)	5.900	Cap Volume Depth (m)	0.450																																																																																																																							
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																							
Membrane Percolation (mm/hr)	1000	Length (m)	38.4																																																																																																																							
Max Percolation (l/s)	106.7	Slope (1:X)	100.0																																																																																																																							
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																							
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																							
Invert Level (m)	5.750	Cap Volume Depth (m)	0.450																																																																																																																							
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																							
Membrane Percolation (mm/hr)	1000	Length (m)	42.6																																																																																																																							
Max Percolation (l/s)	118.3	Slope (1:X)	100.0																																																																																																																							
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																							
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																							
Invert Level (m)	5.700	Cap Volume Depth (m)	0.450																																																																																																																							
Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	75.0																																																																																																																							
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	4.0																																																																																																																							
Safety Factor	2.0	Slope (1:X)	359.0																																																																																																																							
Porosity	0.30	Cap Volume Depth (m)	1.650																																																																																																																							
Invert Level (m)	5.120	Cap Infiltration Depth (m)	0.000																																																																																																																							
Base Width (m)	2.5	Include Swale Volume	Yes																																																																																																																							
©1982-2020 Innovyze																																																																																																																										

RSK LDE		Page 77
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Swale Manhole: S41, DS/PN: 11.003

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	39.0
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	4.0
Safety Factor	2.0	Slope (1:X)	100.0
Porosity	0.30	Cap Volume Depth (m)	6.500
Invert Level (m)	5.680	Cap Infiltration Depth (m)	6.500
Base Width (m)	2.4	Include Swale Volume	Yes

Swale Manhole: S47, DS/PN: 11.009

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	64.8
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	4.0
Safety Factor	2.0	Slope (1:X)	100.0
Porosity	0.30	Cap Volume Depth (m)	6.000
Invert Level (m)	4.900	Cap Infiltration Depth (m)	6.000
Base Width (m)	2.0	Include Swale Volume	Yes

Tank or Pond Manhole: S49, DS/PN: 1.012

Invert Level (m) 4.800

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	25.3	1.000	146.1

Porous Car Park Manhole: S51, DS/PN: 13.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	20.0
Max Percolation (l/s)	55.6	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	5.540	Cap Volume Depth (m)	0.450

Porous Car Park Manhole: S56a, DS/PN: 14.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.3
Membrane Percolation (mm/hr)	1000	Length (m)	10.0
Max Percolation (l/s)	9.2	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	5.115	Cap Volume Depth (m)	0.450

©1982-2020 Innovyze

RSK LDE		Page 78
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Porous Car Park Manhole: S58, DS/PN: 14.003

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	16.3
Max Percolation (l/s)	45.3	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	5.306	Cap Volume Depth (m)	0.450

Complex Manhole: S60, DS/PN: 1.017

Filter Drain

Infiltration Coefficient Base (m/hr)	0.00000	Pipe Diameter (m)	0.150
Infiltration Coefficient Side (m/hr)	0.00000	Pipe Depth above Invert (m)	0.000
Safety Factor	2.0	Number of Pipes	1
Porosity	0.30	Slope (1:X)	0.0
Invert Level (m)	4.250	Cap Volume Depth (m)	0.400
Trench Width (m)	2.4	Cap Infiltration Depth (m)	0.000
Trench Length (m)	83.5		

Swale

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	83.5
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	3.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	1.00	Cap Volume Depth (m)	0.300
Invert Level (m)	4.650	Cap Infiltration Depth (m)	0.000
Base Width (m)	1.0	Include Swale Volume	Yes

Porous Car Park Manhole: S61, DS/PN: 15.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	33.9
Max Percolation (l/s)	94.2	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.185	Cap Volume Depth (m)	0.450

Porous Car Park Manhole: S62, DS/PN: 16.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	16.2
Max Percolation (l/s)	45.0	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.250	Cap Volume Depth (m)	0.450

©1982-2020 Innovyze

RSK LDE		Page 79																																																																																																																																												
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																																																													
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by																																																																																																																																													
XP Solutions Network 2020.1.3																																																																																																																																														
<u>Porous Car Park Manhole: S64, DS/PN: 15.002</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>35.5</td></tr><tr><td>Max Percolation (l/s)</td><td>98.6</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.510</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S65, DS/PN: 15.003</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>11.7</td></tr><tr><td>Max Percolation (l/s)</td><td>32.5</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.900</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S66, DS/PN: 15.004</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>2.9</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.0</td></tr><tr><td>Max Percolation (l/s)</td><td>8.1</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.600</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S67, DS/PN: 17.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>13.8</td></tr><tr><td>Max Percolation (l/s)</td><td>38.3</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.100</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S72, DS/PN: 18.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>22.9</td></tr><tr><td>Max Percolation (l/s)</td><td>63.6</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.540</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S73, DS/PN: 19.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Invert Level (m)</td><td>5.390</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Max Percolation (l/s)</td><td>63.9</td><td>Length (m)</td><td>23.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Porosity</td><td>0.30</td><td>Depression Storage (mm)</td><td>5</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	35.5	Max Percolation (l/s)	98.6	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.510	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	11.7	Max Percolation (l/s)	32.5	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.900	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	2.9	Membrane Percolation (mm/hr)	1000	Length (m)	10.0	Max Percolation (l/s)	8.1	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.600	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	13.8	Max Percolation (l/s)	38.3	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.100	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	22.9	Max Percolation (l/s)	63.6	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.540	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Invert Level (m)	5.390	Membrane Percolation (mm/hr)	1000	Width (m)	10.0	Max Percolation (l/s)	63.9	Length (m)	23.0	Safety Factor	2.0	Slope (1:X)	100.0	Porosity	0.30	Depression Storage (mm)	5
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																																											
Membrane Percolation (mm/hr)	1000	Length (m)	35.5																																																																																																																																											
Max Percolation (l/s)	98.6	Slope (1:X)	100.0																																																																																																																																											
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																																											
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																											
Invert Level (m)	5.510	Cap Volume Depth (m)	0.450																																																																																																																																											
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																																											
Membrane Percolation (mm/hr)	1000	Length (m)	11.7																																																																																																																																											
Max Percolation (l/s)	32.5	Slope (1:X)	100.0																																																																																																																																											
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																																											
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																											
Invert Level (m)	5.900	Cap Volume Depth (m)	0.450																																																																																																																																											
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	2.9																																																																																																																																											
Membrane Percolation (mm/hr)	1000	Length (m)	10.0																																																																																																																																											
Max Percolation (l/s)	8.1	Slope (1:X)	100.0																																																																																																																																											
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																																											
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																											
Invert Level (m)	5.600	Cap Volume Depth (m)	0.450																																																																																																																																											
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																																											
Membrane Percolation (mm/hr)	1000	Length (m)	13.8																																																																																																																																											
Max Percolation (l/s)	38.3	Slope (1:X)	100.0																																																																																																																																											
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																																											
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																											
Invert Level (m)	6.100	Cap Volume Depth (m)	0.450																																																																																																																																											
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																																											
Membrane Percolation (mm/hr)	1000	Length (m)	22.9																																																																																																																																											
Max Percolation (l/s)	63.6	Slope (1:X)	100.0																																																																																																																																											
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																																											
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																											
Invert Level (m)	5.540	Cap Volume Depth (m)	0.450																																																																																																																																											
Infiltration Coefficient Base (m/hr)	0.00000	Invert Level (m)	5.390																																																																																																																																											
Membrane Percolation (mm/hr)	1000	Width (m)	10.0																																																																																																																																											
Max Percolation (l/s)	63.9	Length (m)	23.0																																																																																																																																											
Safety Factor	2.0	Slope (1:X)	100.0																																																																																																																																											
Porosity	0.30	Depression Storage (mm)	5																																																																																																																																											
©1982-2020 Innovyze																																																																																																																																														

RSK LDE		Page 80
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Porous Car Park Manhole: S73, DS/PN: 19.000

Evaporation (mm/day) 3 Cap Volume Depth (m) 0.450

Tank or Pond Manhole: S76, DS/PN: 1.018

Invert Level (m) 4.550

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	610.9	1.000	966.0

Complex Manhole: S79, DS/PN: 1.021

Filter Drain

Infiltration Coefficient Base (m/hr)	0.00000	Pipe Diameter (m)	0.300
Infiltration Coefficient Side (m/hr)	0.00000	Pipe Depth above Invert (m)	0.000
Safety Factor	2.0	Number of Pipes	1
Porosity	0.30	Slope (1:X)	0.0
Invert Level (m)	4.050	Cap Volume Depth (m)	1.000
Trench Width (m)	2.4	Cap Infiltration Depth (m)	0.000
Trench Length (m)	38.7		

Swale

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	38.7
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	3.0
Safety Factor	2.0	Slope (1:X)	387.0
Porosity	1.00	Cap Volume Depth (m)	0.300
Invert Level (m)	5.450	Cap Infiltration Depth (m)	0.000
Base Width (m)	0.8	Include Swale Volume	Yes

Porous Car Park Manhole: S80, DS/PN: 20.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	10.1
Max Percolation (l/s)	28.1	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.395	Cap Volume Depth (m)	0.450

Porous Car Park Manhole: S81, DS/PN: 20.001

Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.30
Membrane Percolation (mm/hr)	1000	Invert Level (m)	6.285
Max Percolation (l/s)	42.8	Width (m)	10.0
Safety Factor	2.0	Length (m)	15.4

©1982-2020 Innovyze

RSK LDE		Page 81
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Porous Car Park Manhole: S81, DS/PN: 20.001

Slope (1:X) 100.0 Evaporation (mm/day) 3
Depression Storage (mm) 5 Cap Volume Depth (m) 0.450

Porous Car Park Manhole: S82, DS/PN: 21.000

Infiltration Coefficient Base (m/hr) 0.00000	Width (m) 10.0
Membrane Percolation (mm/hr) 1000	Length (m) 21.8
Max Percolation (l/s) 60.6	Slope (1:X) 100.0
Safety Factor 2.0	Depression Storage (mm) 5
Porosity 0.30	Evaporation (mm/day) 3
Invert Level (m) 6.215	Cap Volume Depth (m) 0.450

Porous Car Park Manhole: S85, DS/PN: 20.004

Infiltration Coefficient Base (m/hr) 0.00000	Width (m) 10.0
Membrane Percolation (mm/hr) 1000	Length (m) 50.7
Max Percolation (l/s) 140.8	Slope (1:X) 100.0
Safety Factor 2.0	Depression Storage (mm) 5
Porosity 0.30	Evaporation (mm/day) 3
Invert Level (m) 5.889	Cap Volume Depth (m) 0.450

Cellular Storage Manhole: S88, DS/PN: 20.007

Invert Level (m) 5.030 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	64.0	64.0	1.300	0.0	104.0
1.200	64.0	102.4			

Complex Manhole: S253, DS/PN: 22.000

Cellular Storage

Invert Level (m) 5.900 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	76.5	76.5	0.500	0.0	90.5
0.400	76.5	90.5			

Porous Car Park

Infiltration Coefficient Base (m/hr) 0.00000	Max Percolation (l/s) 190.6
Membrane Percolation (mm/hr) 1000	Safety Factor 2.0

©1982-2020 Innovyze

RSK LDE		Page 82
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		
<u>Porous Car Park</u> Porosity 0.30 Slope (1:X) 100.0 Invert Level (m) 6.690 Depression Storage (mm) 5 Width (m) 10.0 Evaporation (mm/day) 3 Length (m) 68.6 Cap Volume Depth (m) 0.450 <u>Porous Car Park Manhole: S92, DS/PN: 22.003</u> Infiltration Coefficient Base (m/hr) 0.00000 Width (m) 10.0 Membrane Percolation (mm/hr) 1000 Length (m) 13.0 Max Percolation (l/s) 36.1 Slope (1:X) 100.0 Safety Factor 2.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 6.800 Cap Volume Depth (m) 0.450 <u>Porous Car Park Manhole: S93, DS/PN: 22.004</u> Infiltration Coefficient Base (m/hr) 0.00000 Width (m) 4.4 Membrane Percolation (mm/hr) 1000 Length (m) 10.0 Max Percolation (l/s) 12.2 Slope (1:X) 100.0 Safety Factor 2.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 6.640 Cap Volume Depth (m) 0.450 <u>Porous Car Park Manhole: S96, DS/PN: 23.000</u> Infiltration Coefficient Base (m/hr) 0.00000 Width (m) 10.0 Membrane Percolation (mm/hr) 1000 Length (m) 16.2 Max Percolation (l/s) 45.0 Slope (1:X) 100.0 Safety Factor 2.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 6.350 Cap Volume Depth (m) 0.450 <u>Porous Car Park Manhole: S98, DS/PN: 24.000</u> Infiltration Coefficient Base (m/hr) 0.00000 Width (m) 10.0 Membrane Percolation (mm/hr) 1000 Length (m) 11.8 Max Percolation (l/s) 32.8 Slope (1:X) 100.0 Safety Factor 2.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 6.170 Cap Volume Depth (m) 0.450 <u>Porous Car Park Manhole: S101, DS/PN: 22.009</u> Infiltration Coefficient Base (m/hr) 0.00000 Width (m) 10.0 Membrane Percolation (mm/hr) 1000 Length (m) 26.0 Max Percolation (l/s) 72.2 Slope (1:X) 100.0 Safety Factor 2.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 5.820 Cap Volume Depth (m) 0.450		
©1982-2020 Innovyze		

RSK LDE		Page 83																																																																																																												
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																													
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by																																																																																																													
XP Solutions	Network 2020.1.3																																																																																																													
<u>Cellular Storage Manhole: S103, DS/PN: 20.009</u> Invert Level (m) 4.915 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.00000 <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr><tr><td>0.000</td><td>186.0</td><td>186.0</td><td>0.500</td><td>0.0</td><td>210.5</td></tr><tr><td>0.400</td><td>186.0</td><td>207.8</td><td></td><td></td><td></td></tr></table> <u>Porous Car Park Manhole: S106, DS/PN: 25.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>8.3</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.0</td></tr><tr><td>Max Percolation (l/s)</td><td>23.1</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.450</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S107, DS/PN: 25.001</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>12.9</td></tr><tr><td>Max Percolation (l/s)</td><td>35.8</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.590</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S109, DS/PN: 25.003</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>8.3</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.0</td></tr><tr><td>Max Percolation (l/s)</td><td>23.1</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.290</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Complex Manhole: S110, DS/PN: 20.012</u> <u>Cellular Storage</u> Invert Level (m) 4.750 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.00000 <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr><tr><td>0.000</td><td>180.0</td><td>180.0</td><td>0.500</td><td>0.0</td><td>204.1</td></tr><tr><td>0.400</td><td>180.0</td><td>201.5</td><td></td><td></td><td></td></tr></table>			Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	0.000	186.0	186.0	0.500	0.0	210.5	0.400	186.0	207.8				Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	8.3	Membrane Percolation (mm/hr)	1000	Length (m)	10.0	Max Percolation (l/s)	23.1	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.450	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	12.9	Max Percolation (l/s)	35.8	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.590	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	8.3	Membrane Percolation (mm/hr)	1000	Length (m)	10.0	Max Percolation (l/s)	23.1	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.290	Cap Volume Depth (m)	0.450	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	0.000	180.0	180.0	0.500	0.0	204.1	0.400	180.0	201.5			
Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)																																																																																																									
0.000	186.0	186.0	0.500	0.0	210.5																																																																																																									
0.400	186.0	207.8																																																																																																												
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	8.3																																																																																																											
Membrane Percolation (mm/hr)	1000	Length (m)	10.0																																																																																																											
Max Percolation (l/s)	23.1	Slope (1:X)	100.0																																																																																																											
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																											
Porosity	0.30	Evaporation (mm/day)	3																																																																																																											
Invert Level (m)	6.450	Cap Volume Depth (m)	0.450																																																																																																											
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																											
Membrane Percolation (mm/hr)	1000	Length (m)	12.9																																																																																																											
Max Percolation (l/s)	35.8	Slope (1:X)	100.0																																																																																																											
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																											
Porosity	0.30	Evaporation (mm/day)	3																																																																																																											
Invert Level (m)	6.590	Cap Volume Depth (m)	0.450																																																																																																											
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	8.3																																																																																																											
Membrane Percolation (mm/hr)	1000	Length (m)	10.0																																																																																																											
Max Percolation (l/s)	23.1	Slope (1:X)	100.0																																																																																																											
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																											
Porosity	0.30	Evaporation (mm/day)	3																																																																																																											
Invert Level (m)	6.290	Cap Volume Depth (m)	0.450																																																																																																											
Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)																																																																																																									
0.000	180.0	180.0	0.500	0.0	204.1																																																																																																									
0.400	180.0	201.5																																																																																																												
©1982-2020 Innovyze																																																																																																														

RSK LDE		Page 84
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		
Drove Lane, Yapton Surface Water Network Calculations - FEH Data		
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...		
Designed by AMuthusami Checked by		
XP Solutions		Network 2020.1.3

Tank or Pond

Invert Level (m) 6.200

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	270.3	1.400	0.0	2.800	0.0	4.200	0.0
0.200	315.4	1.600	0.0	3.000	0.0	4.400	0.0
0.400	363.0	1.800	0.0	3.200	0.0	4.600	0.0
0.600	427.1	2.000	0.0	3.400	0.0	4.800	0.0
0.800	0.0	2.200	0.0	3.600	0.0	5.000	0.0
1.000	0.0	2.400	0.0	3.800	0.0		
1.200	0.0	2.600	0.0	4.000	0.0		

Swale Manhole: S116, DS/PN: 26.003

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr) 0.00000	Length (m) 50.3
Infiltration Coefficient Side (m/hr) 0.00000	Side Slope (1:X) 4.0
Safety Factor 2.0	Slope (1:X) 100.0
Porosity 0.30	Cap Volume Depth (m) 6.850
Invert Level (m) 5.950	Cap Infiltration Depth (m) 6.850
Base Width (m) 2.4	Include Swale Volume Yes

Swale Manhole: S121, DS/PN: 28.000

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr) 0.00000	Length (m) 14.5
Infiltration Coefficient Side (m/hr) 0.00000	Side Slope (1:X) 4.0
Safety Factor 2.0	Slope (1:X) 100.0
Porosity 0.30	Cap Volume Depth (m) 6.850
Invert Level (m) 6.100	Cap Infiltration Depth (m) 6.850
Base Width (m) 2.4	Include Swale Volume Yes

Porous Car Park Manhole: S126, DS/PN: 29.000

Infiltration Coefficient Base (m/hr) 0.00000	Width (m) 10.0
Membrane Percolation (mm/hr) 1000	Length (m) 13.0
Max Percolation (l/s) 36.1	Slope (1:X) 100.0
Safety Factor 2.0	Depression Storage (mm) 5
Porosity 0.30	Evaporation (mm/day) 3
Invert Level (m) 6.100	Cap Volume Depth (m) 0.450

Swale Manhole: S127, DS/PN: 20.013

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr) 0.00000 Infiltration Coefficient Side (m/hr) 0.00000

©1982-2020 Innovyze

RSK LDE		Page 85
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Swale Manhole: S127, DS/PN: 20.013

Safety Factor	2.0	Side Slope (1:X)	4.0
Porosity	0.30	Slope (1:X)	100.0
Invert Level (m)	5.910	Cap Volume Depth (m)	6.800
Base Width (m)	2.4	Cap Infiltration Depth (m)	6.800
Length (m)	50.3	Include Swale Volume	Yes

Porous Car Park Manhole: S128, DS/PN: 30.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	30.8
Max Percolation (l/s)	85.6	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.050	Cap Volume Depth (m)	0.450

Complex Manhole: S130, DS/PN: 20.014

Cellular Storage

Invert Level (m)	4.600	Safety Factor	2.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95
Infiltration Coefficient Side (m/hr)	0.00000		

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	49.0	49.0	0.500	0.0	60.2
0.400	49.0	60.2			

Tank or Pond

Invert Level (m)	6.200
------------------	-------

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	269.2	0.400	346.7

Porous Car Park Manhole: S131, DS/PN: 31.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	9.1
Membrane Percolation (mm/hr)	1000	Length (m)	10.0
Max Percolation (l/s)	25.3	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	5.967	Cap Volume Depth (m)	0.450

Porous Car Park Manhole: S133, DS/PN: 31.002

Infiltration Coefficient Base (m/hr)	0.00000	Max Percolation (l/s)	76.4
Membrane Percolation (mm/hr)	1000	Safety Factor	2.0

©1982-2020 Innovyze

RSK LDE		Page 86
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Porous Car Park Manhole: S133, DS/PN: 31.002

Porosity 0.30 Slope (1:X) 100.0
 Invert Level (m) 5.650 Depression Storage (mm) 5
 Width (m) 10.0 Evaporation (mm/day) 3
 Length (m) 27.5 Cap Volume Depth (m) 0.450

Complex Manhole: S134, DS/PN: 20.015

Cellular Storage

Invert Level (m) 4.460 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
 Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	49.0	49.0	0.500	0.0	60.2
0.400	49.0	60.2			

Tank or Pond

Invert Level (m) 6.200

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	250.5	0.400	329.9

Cellular Storage Manhole: S136, DS/PN: 20.016

Invert Level (m) 4.460 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
 Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	36.0	36.0	0.500	0.0	45.6
0.400	36.0	45.6			

Porous Car Park Manhole: S137, DS/PN: 33.000

Infiltration Coefficient Base (m/hr) 0.00000 Width (m) 10.0
 Membrane Percolation (mm/hr) 1000 Length (m) 12.5
 Max Percolation (l/s) 34.7 Slope (1:X) 100.0
 Safety Factor 2.0 Depression Storage (mm) 5
 Porosity 0.30 Evaporation (mm/day) 3
 Invert Level (m) 5.550 Cap Volume Depth (m) 0.450

©1982-2020 Innovyze

RSK LDE		Page 87
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Cellular Storage Manhole: S138, DS/PN: 20.017

Invert Level (m)	4.400	Safety Factor	2.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95
Infiltration Coefficient Side (m/hr)	0.00000		

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	49.0	49.0	0.500	0.0	60.2
0.400	49.0	60.2			

Porous Car Park Manhole: S139, DS/PN: 34.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	85.8
Max Percolation (l/s)	238.3	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	5.650	Cap Volume Depth (m)	0.450

Porous Car Park Manhole: S140, DS/PN: 34.001

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	10.3
Max Percolation (l/s)	28.6	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	5.390	Cap Volume Depth (m)	0.450

Complex Manhole: S144, DS/PN: 20.018

Cellular Storage

Invert Level (m)	4.400	Safety Factor	2.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95
Infiltration Coefficient Side (m/hr)	0.00000		

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	49.0	49.0	0.500	0.0	60.2
0.400	49.0	60.2			

Tank or Pond

Invert Level (m)	5.500
------------------	-------

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	260.0	0.400	345.2

©1982-2020 Innovyze

RSK LDE		Page 88																																																																																																																																												
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																																																													
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by																																																																																																																																													
XP Solutions	Network 2020.1.3																																																																																																																																													
<u>Porous Car Park Manhole: S145, DS/PN: 36.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>76.3</td></tr><tr><td>Max Percolation (l/s)</td><td>211.9</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.900</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S146, DS/PN: 37.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>19.7</td></tr><tr><td>Max Percolation (l/s)</td><td>54.7</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.650</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S149b, DS/PN: 38.001</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>23.6</td></tr><tr><td>Max Percolation (l/s)</td><td>65.6</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.350</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S151, DS/PN: 39.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>18.8</td></tr><tr><td>Max Percolation (l/s)</td><td>52.2</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.310</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S153, DS/PN: 40.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>15.7</td></tr><tr><td>Max Percolation (l/s)</td><td>43.6</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.360</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S154, DS/PN: 41.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Invert Level (m)</td><td>5.200</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Max Percolation (l/s)</td><td>40.0</td><td>Length (m)</td><td>14.4</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Porosity</td><td>0.30</td><td>Depression Storage (mm)</td><td>5</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	76.3	Max Percolation (l/s)	211.9	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.900	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	19.7	Max Percolation (l/s)	54.7	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.650	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	23.6	Max Percolation (l/s)	65.6	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.350	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	18.8	Max Percolation (l/s)	52.2	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.310	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	15.7	Max Percolation (l/s)	43.6	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.360	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Invert Level (m)	5.200	Membrane Percolation (mm/hr)	1000	Width (m)	10.0	Max Percolation (l/s)	40.0	Length (m)	14.4	Safety Factor	2.0	Slope (1:X)	100.0	Porosity	0.30	Depression Storage (mm)	5
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																																											
Membrane Percolation (mm/hr)	1000	Length (m)	76.3																																																																																																																																											
Max Percolation (l/s)	211.9	Slope (1:X)	100.0																																																																																																																																											
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																																											
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																											
Invert Level (m)	5.900	Cap Volume Depth (m)	0.450																																																																																																																																											
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																																											
Membrane Percolation (mm/hr)	1000	Length (m)	19.7																																																																																																																																											
Max Percolation (l/s)	54.7	Slope (1:X)	100.0																																																																																																																																											
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																																											
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																											
Invert Level (m)	5.650	Cap Volume Depth (m)	0.450																																																																																																																																											
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																																											
Membrane Percolation (mm/hr)	1000	Length (m)	23.6																																																																																																																																											
Max Percolation (l/s)	65.6	Slope (1:X)	100.0																																																																																																																																											
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																																											
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																											
Invert Level (m)	5.350	Cap Volume Depth (m)	0.450																																																																																																																																											
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																																											
Membrane Percolation (mm/hr)	1000	Length (m)	18.8																																																																																																																																											
Max Percolation (l/s)	52.2	Slope (1:X)	100.0																																																																																																																																											
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																																											
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																											
Invert Level (m)	5.310	Cap Volume Depth (m)	0.450																																																																																																																																											
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																																											
Membrane Percolation (mm/hr)	1000	Length (m)	15.7																																																																																																																																											
Max Percolation (l/s)	43.6	Slope (1:X)	100.0																																																																																																																																											
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																																											
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																											
Invert Level (m)	5.360	Cap Volume Depth (m)	0.450																																																																																																																																											
Infiltration Coefficient Base (m/hr)	0.00000	Invert Level (m)	5.200																																																																																																																																											
Membrane Percolation (mm/hr)	1000	Width (m)	10.0																																																																																																																																											
Max Percolation (l/s)	40.0	Length (m)	14.4																																																																																																																																											
Safety Factor	2.0	Slope (1:X)	100.0																																																																																																																																											
Porosity	0.30	Depression Storage (mm)	5																																																																																																																																											
©1982-2020 Innovyze																																																																																																																																														

RSK LDE		Page 89
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Porous Car Park Manhole: S154, DS/PN: 41.000

Evaporation (mm/day) 3 Cap Volume Depth (m) 0.450

Cellular Storage Manhole: S156, DS/PN: 20.021

Invert Level (m) 4.120 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	80.5	80.5	0.900	0.0	111.0
0.800	80.5	109.2			

Porous Car Park Manhole: S157, DS/PN: 20.022

Infiltration Coefficient Base (m/hr) 0.00000 Width (m) 10.0
Membrane Percolation (mm/hr) 1000 Length (m) 31.1
Max Percolation (l/s) 86.4 Slope (1:X) 100.0
Safety Factor 2.0 Depression Storage (mm) 5
Porosity 0.30 Evaporation (mm/day) 3
Invert Level (m) 5.025 Cap Volume Depth (m) 0.450

Porous Car Park Manhole: S158, DS/PN: 43.000

Infiltration Coefficient Base (m/hr) 0.00000 Width (m) 10.0
Membrane Percolation (mm/hr) 1000 Length (m) 17.6
Max Percolation (l/s) 48.9 Slope (1:X) 100.0
Safety Factor 2.0 Depression Storage (mm) 5
Porosity 0.30 Evaporation (mm/day) 3
Invert Level (m) 5.100 Cap Volume Depth (m) 0.450

Complex Manhole: S164, DS/PN: 1.022

Cellular Storage

Invert Level (m) 3.835 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	110.0	110.0	0.500	0.0	128.9
0.400	110.0	126.8			

Tank or Pond

Invert Level (m) 4.420

©1982-2020 Innovyze

RSK LDE

Page 90

18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP SolutionsNetwork 2020.1.3		

Tank or Pond

Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	115.7	1.000	373.6

Complex Manhole: S166, DS/PN: 1.024

Tank or Pond

Invert Level (m) 3.835

Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	184.2	1.000	508.0

Cellular Storage

Invert Level (m) 3.470 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	225.5	225.5	0.500	0.0	252.5
0.400	225.5	249.5			

Porous Car Park Manhole: S167, DS/PN: 44.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	7.2
Membrane Percolation (mm/hr)	1000	Length (m)	10.0
Max Percolation (l/s)	20.0	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	4.992	Cap Volume Depth (m)	0.450

Porous Car Park Manhole: S168, DS/PN: 45.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	9.7
Max Percolation (l/s)	26.9	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	5.090	Cap Volume Depth (m)	0.450

Porous Car Park Manhole: S170, DS/PN: 46.000

Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.30
Membrane Percolation (mm/hr)	1000	Invert Level (m)	5.020
Max Percolation (l/s)	80.3	Width (m)	10.0
Safety Factor	2.0	Length (m)	28.9

©1982-2020 Innovyze

RSK LDE		Page 91
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Porous Car Park Manhole: S170, DS/PN: 46.000

Slope (1:X) 100.0 Evaporation (mm/day) 3
Depression Storage (mm) 5 Cap Volume Depth (m) 0.450

Porous Car Park Manhole: S174, DS/PN: 47.000

Infiltration Coefficient Base (m/hr) 0.00000	Width (m) 10.0
Membrane Percolation (mm/hr) 1000	Length (m) 24.4
Max Percolation (l/s) 67.8	Slope (1:X) 100.0
Safety Factor 2.0	Depression Storage (mm) 5
Porosity 0.30	Evaporation (mm/day) 3
Invert Level (m) 4.500	Cap Volume Depth (m) 0.450

Complex Manhole: S176, DS/PN: 1.025

Cellular Storage

Invert Level (m) 3.720 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	201.5	201.5	0.500	0.0	227.1
0.400	201.5	224.2			

Tank or Pond

Invert Level (m) 4.200

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	106.0	0.750	211.5

Complex Manhole: S177, DS/PN: 1.026

Filter Drain

Infiltration Coefficient Base (m/hr) 0.00000	Pipe Diameter (m) 0.300
Infiltration Coefficient Side (m/hr) 0.00000	Pipe Depth above Invert (m) 0.000
Safety Factor 2.0	Number of Pipes 1
Porosity 0.30	Slope (1:X) 0.0
Invert Level (m) 3.700	Cap Volume Depth (m) 0.450
Trench Width (m) 2.4	Cap Infiltration Depth (m) 0.000
Trench Length (m) 3.7	

©1982-2020 Innovyze

RSK LDE		Page 92
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Swale

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	3.7
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	3.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	1.00	Cap Volume Depth (m)	0.300
Invert Level (m)	4.150	Cap Infiltration Depth (m)	0.000
Base Width (m)	2.4	Include Swale Volume	Yes

Porous Car Park Manhole: S178, DS/PN: 48.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	20.9
Max Percolation (l/s)	58.1	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.290	Cap Volume Depth (m)	0.450

Cellular Storage Manhole: S179, DS/PN: 48.001

Invert Level (m)	5.900	Safety Factor	2.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95
Infiltration Coefficient Side (m/hr)	0.00000		

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	55.0	55.0	0.500	0.0	68.3
0.400	55.0	66.9			

Porous Car Park Manhole: S180, DS/PN: 48.002

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	10.6
Max Percolation (l/s)	29.4	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.050	Cap Volume Depth (m)	0.450

Porous Car Park Manhole: S181, DS/PN: 48.003

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	4.9
Membrane Percolation (mm/hr)	1000	Length (m)	10.0
Max Percolation (l/s)	13.6	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	5.659	Cap Volume Depth (m)	0.450

©1982-2020 Innovyze

RSK LDE		Page 93
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Porous Car Park Manhole: S183, DS/PN: 50.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	13.2
Max Percolation (l/s)	36.7	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.050	Cap Volume Depth (m)	0.450

Porous Car Park Manhole: S185, DS/PN: 48.006

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	25.1
Max Percolation (l/s)	69.7	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.050	Cap Volume Depth (m)	0.450

Complex Manhole: S188, DS/PN: 48.009

Cellular Storage

Invert Level (m)	4.850	Safety Factor	2.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95
Infiltration Coefficient Side (m/hr)	0.00000		

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	95.0	95.0	0.500	0.1	112.6
0.400	95.0	110.6			

Complex Manhole: S190, DS/PN: 48.011

Filter Drain

Infiltration Coefficient Base (m/hr)	0.00000	Pipe Diameter (m)	0.300
Infiltration Coefficient Side (m/hr)	0.00000	Pipe Depth above Invert (m)	0.000
Safety Factor	2.0	Number of Pipes	1
Porosity	0.30	Slope (1:X)	0.0
Invert Level (m)	5.600	Cap Volume Depth (m)	1.000
Trench Width (m)	2.4	Cap Infiltration Depth (m)	0.000
Trench Length (m)	11.4		

Swale

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr)	0.00000	Safety Factor	2.0
Infiltration Coefficient Side (m/hr)	0.00000	Porosity	1.00

©1982-2020 Innovyze

RSK LDE		Page 94
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Swale

Invert Level (m)	6.600	Slope (1:X)	0.0
Base Width (m)	0.8	Cap Volume Depth (m)	0.300
Length (m)	11.4	Cap Infiltration Depth (m)	0.000
Side Slope (1:X)	3.0	Include Swale Volume	Yes

Porous Car Park Manhole: S191, DS/PN: 51.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	17.0
Max Percolation (l/s)	47.2	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	5.760	Cap Volume Depth (m)	0.450

Complex Manhole: S193, DS/PN: 48.012

Cellular Storage

Invert Level (m)	4.750	Safety Factor	2.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95
Infiltration Coefficient Side (m/hr)	0.00000		

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	25.0	25.0	0.500	0.0	33.0
0.400	25.0	33.0			

Filter Drain

Infiltration Coefficient Base (m/hr)	0.00000	Pipe Diameter (m)	0.300
Infiltration Coefficient Side (m/hr)	0.00000	Pipe Depth above Invert (m)	0.000
Safety Factor	2.0	Number of Pipes	1
Porosity	0.30	Slope (1:X)	0.0
Invert Level (m)	4.750	Cap Volume Depth (m)	1.000
Trench Width (m)	2.4	Cap Infiltration Depth (m)	0.000
Trench Length (m)	11.5		

Swale

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	11.5
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	3.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	1.00	Cap Volume Depth (m)	0.300
Invert Level (m)	5.900	Cap Infiltration Depth (m)	0.000
Base Width (m)	0.8	Include Swale Volume	Yes

©1982-2020 Innovyze

RSK LDE		Page 95
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions	Network 2020.1.3	

Complex Manhole: S194, DS/PN: 48.013

Filter Drain

Infiltration Coefficient Base (m/hr)	0.00000	Pipe Diameter (m)	0.225
Infiltration Coefficient Side (m/hr)	0.00000	Pipe Depth above Invert (m)	0.000
Safety Factor	2.0	Number of Pipes	1
Porosity	0.30	Slope (1:X)	0.0
Invert Level (m)	4.630	Cap Volume Depth (m)	1.000
Trench Width (m)	2.4	Cap Infiltration Depth (m)	0.000
Trench Length (m)	18.5		

Swale

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	18.5
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	3.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	1.00	Cap Volume Depth (m)	0.300
Invert Level (m)	5.630	Cap Infiltration Depth (m)	0.000
Base Width (m)	0.8	Include Swale Volume	Yes

Porous Car Park Manhole: S195, DS/PN: 52.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	7.7
Membrane Percolation (mm/hr)	1000	Length (m)	10.0
Max Percolation (l/s)	21.4	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.004	Cap Volume Depth (m)	0.450

Porous Car Park Manhole: S196, DS/PN: 53.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.6
Membrane Percolation (mm/hr)	1000	Length (m)	10.0
Max Percolation (l/s)	10.0	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.090	Cap Volume Depth (m)	0.450

Complex Manhole: S201, DS/PN: 48.014

Cellular Storage

Invert Level (m)	4.500	Safety Factor	2.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95
Infiltration Coefficient Side (m/hr)	0.00000		

©1982-2020 Innovyze

RSK LDE		Page 96
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		
Drove Lane, Yapton Surface Water Network Calculations - FEH Data		
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...		
Designed by AMuthusami Checked by		
XP Solutions		Network 2020.1.3

Cellular Storage

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	42.0	42.0	0.500	0.0	52.4
0.400	42.0	52.4			

Filter Drain

Infiltration Coefficient Base (m/hr) 0.00000	Pipe Diameter (m) 0.300
Infiltration Coefficient Side (m/hr) 0.00000	Pipe Depth above Invert (m) 0.000
Safety Factor 2.0	Number of Pipes 1
Porosity 0.30	Slope (1:X) 0.0
Invert Level (m) 4.500	Cap Volume Depth (m) 1.350
Trench Width (m) 2.4	Cap Infiltration Depth (m) 0.000
Trench Length (m) 18.6	

Swale

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr) 0.00000	Length (m) 18.6
Infiltration Coefficient Side (m/hr) 0.00000	Side Slope (1:X) 3.0
Safety Factor 2.0	Slope (1:X) 0.0
Porosity 1.00	Cap Volume Depth (m) 0.300
Invert Level (m) 5.850	Cap Infiltration Depth (m) 0.000
Base Width (m) 0.8	Include Swale Volume Yes

Porous Car Park Manhole: S203, DS/PN: 54.000

Infiltration Coefficient Base (m/hr) 0.00000	Width (m) 10.0
Membrane Percolation (mm/hr) 1000	Length (m) 17.6
Max Percolation (l/s) 48.9	Slope (1:X) 100.0
Safety Factor 2.0	Depression Storage (mm) 5
Porosity 0.30	Evaporation (mm/day) 3
Invert Level (m) 5.390	Cap Volume Depth (m) 0.450

Complex Manhole: S206, DS/PN: 48.015

Cellular Storage

Invert Level (m) 4.450	Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000	Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000	

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	45.5	45.5	0.500	0.0	56.3
0.400	45.5	56.3			

©1982-2020 Innovyze

RSK LDE		Page 97
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Filter Drain

Infiltration Coefficient Base (m/hr)	0.00000	Pipe Diameter (m)	0.300
Infiltration Coefficient Side (m/hr)	0.00000	Pipe Depth above Invert (m)	0.000
Safety Factor	2.0	Number of Pipes	1
Porosity	0.30	Slope (1:X)	0.0
Invert Level (m)	4.450	Cap Volume Depth (m)	1.000
Trench Width (m)	2.4	Cap Infiltration Depth (m)	0.000
Trench Length (m)	24.0		

Swale

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	24.0
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	3.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	1.00	Cap Volume Depth (m)	0.300
Invert Level (m)	5.450	Cap Infiltration Depth (m)	0.000
Base Width (m)	0.8	Include Swale Volume	Yes

Porous Car Park Manhole: S208a, DS/PN: 56.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	21.8
Max Percolation (l/s)	60.6	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.550	Cap Volume Depth (m)	0.450

Porous Car Park Manhole: S211, DS/PN: 57.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	10.6
Max Percolation (l/s)	29.4	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.390	Cap Volume Depth (m)	0.450

Porous Car Park Manhole: S213, DS/PN: 58.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	8.1
Membrane Percolation (mm/hr)	1000	Length (m)	10.0
Max Percolation (l/s)	22.5	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.099	Cap Volume Depth (m)	0.450

Porous Car Park Manhole: S215, DS/PN: 59.000

Infiltration Coefficient Base (m/hr)	0.00000	Membrane Percolation (mm/hr)	1000
--------------------------------------	---------	------------------------------	------

©1982-2020 Innovyze

RSK LDE		Page 98																																																																																																																										
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																																											
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by																																																																																																																											
XP Solutions Network 2020.1.3																																																																																																																												
<u>Porous Car Park Manhole: S215, DS/PN: 59.000</u> <table><tr><td>Max Percolation (l/s)</td><td>68.6</td><td>Length (m)</td><td>24.7</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Porosity</td><td>0.30</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Invert Level (m)</td><td>6.070</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Width (m)</td><td>10.0</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S217, DS/PN: 60.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>19.8</td></tr><tr><td>Max Percolation (l/s)</td><td>55.0</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.300</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S218, DS/PN: 55.007</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>7.8</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.0</td></tr><tr><td>Max Percolation (l/s)</td><td>21.7</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.387</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S220, DS/PN: 55.009</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>17.9</td></tr><tr><td>Max Percolation (l/s)</td><td>49.7</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.056</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Complex Manhole: S222, DS/PN: 48.016</u> <u>Cellular Storage</u> <table><tr><td>Invert Level (m)</td><td>4.080</td><td>Safety Factor</td><td>2.0</td></tr><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Porosity</td><td>0.95</td></tr><tr><td>Infiltration Coefficient Side (m/hr)</td><td>0.00000</td><td></td><td></td></tr></table> <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr><tr><td>0.000</td><td>54.0</td><td>54.0</td><td>0.900</td><td>0.0</td><td>79.0</td></tr><tr><td>0.800</td><td>54.0</td><td>77.5</td><td></td><td></td><td></td></tr></table>			Max Percolation (l/s)	68.6	Length (m)	24.7	Safety Factor	2.0	Slope (1:X)	100.0	Porosity	0.30	Depression Storage (mm)	5	Invert Level (m)	6.070	Evaporation (mm/day)	3	Width (m)	10.0	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	19.8	Max Percolation (l/s)	55.0	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.300	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	7.8	Membrane Percolation (mm/hr)	1000	Length (m)	10.0	Max Percolation (l/s)	21.7	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.387	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	17.9	Max Percolation (l/s)	49.7	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.056	Cap Volume Depth (m)	0.450	Invert Level (m)	4.080	Safety Factor	2.0	Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95	Infiltration Coefficient Side (m/hr)	0.00000			Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	0.000	54.0	54.0	0.900	0.0	79.0	0.800	54.0	77.5			
Max Percolation (l/s)	68.6	Length (m)	24.7																																																																																																																									
Safety Factor	2.0	Slope (1:X)	100.0																																																																																																																									
Porosity	0.30	Depression Storage (mm)	5																																																																																																																									
Invert Level (m)	6.070	Evaporation (mm/day)	3																																																																																																																									
Width (m)	10.0	Cap Volume Depth (m)	0.450																																																																																																																									
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																									
Membrane Percolation (mm/hr)	1000	Length (m)	19.8																																																																																																																									
Max Percolation (l/s)	55.0	Slope (1:X)	100.0																																																																																																																									
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																									
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																									
Invert Level (m)	5.300	Cap Volume Depth (m)	0.450																																																																																																																									
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	7.8																																																																																																																									
Membrane Percolation (mm/hr)	1000	Length (m)	10.0																																																																																																																									
Max Percolation (l/s)	21.7	Slope (1:X)	100.0																																																																																																																									
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																									
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																									
Invert Level (m)	5.387	Cap Volume Depth (m)	0.450																																																																																																																									
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																									
Membrane Percolation (mm/hr)	1000	Length (m)	17.9																																																																																																																									
Max Percolation (l/s)	49.7	Slope (1:X)	100.0																																																																																																																									
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																									
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																									
Invert Level (m)	5.056	Cap Volume Depth (m)	0.450																																																																																																																									
Invert Level (m)	4.080	Safety Factor	2.0																																																																																																																									
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95																																																																																																																									
Infiltration Coefficient Side (m/hr)	0.00000																																																																																																																											
Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)																																																																																																																							
0.000	54.0	54.0	0.900	0.0	79.0																																																																																																																							
0.800	54.0	77.5																																																																																																																										
©1982-2020 Innovyze																																																																																																																												

RSK LDE		Page 99
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Filter Drain

Infiltration Coefficient Base (m/hr) 0.00000	Pipe Diameter (m) 0.300
Infiltration Coefficient Side (m/hr) 0.00000	Pipe Depth above Invert (m) 0.000
Safety Factor 2.0	Number of Pipes 1
Porosity 0.30	Slope (1:X) 0.0
Invert Level (m) 4.080	Cap Volume Depth (m) 1.000
Trench Width (m) 2.4	Cap Infiltration Depth (m) 0.000
Trench Length (m) 22.4	

Swale

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr) 0.00000	Length (m) 22.4
Infiltration Coefficient Side (m/hr) 0.00000	Side Slope (1:X) 3.0
Safety Factor 2.0	Slope (1:X) 0.0
Porosity 1.00	Cap Volume Depth (m) 0.300
Invert Level (m) 5.200	Cap Infiltration Depth (m) 0.000
Base Width (m) 1.0	Include Swale Volume Yes

Complex Manhole: S225, DS/PN: 48.017

Cellular Storage

Invert Level (m) 4.080	Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000	Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000	

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	54.0	54.0	0.900	0.0	79.0
0.800	54.0	77.5			

Filter Drain

Infiltration Coefficient Base (m/hr) 0.00000	Pipe Diameter (m) 0.300
Infiltration Coefficient Side (m/hr) 0.00000	Pipe Depth above Invert (m) 0.000
Safety Factor 2.0	Number of Pipes 1
Porosity 0.30	Slope (1:X) 0.0
Invert Level (m) 4.080	Cap Volume Depth (m) 1.000
Trench Width (m) 2.4	Cap Infiltration Depth (m) 0.000
Trench Length (m) 22.5	

Swale

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr) 0.00000	Safety Factor 2.0
Infiltration Coefficient Side (m/hr) 0.00000	Porosity 1.00

©1982-2020 Innovyze

RSK LDE		Page 100
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Swale

Invert Level (m)	5.200	Slope (1:X)	0.0
Base Width (m)	0.8	Cap Volume Depth (m)	0.300
Length (m)	22.5	Cap Infiltration Depth (m)	0.000
Side Slope (1:X)	3.0	Include Swale Volume	Yes

Porous Car Park Manhole: S226, DS/PN: 62.000

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	16.8
Max Percolation (l/s)	46.7	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	5.250	Cap Volume Depth (m)	0.450

Porous Car Park Manhole: S227, DS/PN: 62.001

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	27.9
Max Percolation (l/s)	77.5	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	4.790	Cap Volume Depth (m)	0.450

Complex Manhole: S230, DS/PN: 48.018

Cellular Storage

Invert Level (m)	4.060	Safety Factor	2.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95
Infiltration Coefficient Side (m/hr)	0.00000		

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	42.0	42.0	0.500	0.0	53.7
0.400	42.0	52.4			

Filter Drain

Infiltration Coefficient Base (m/hr)	0.00000	Pipe Diameter (m)	0.300
Infiltration Coefficient Side (m/hr)	0.00000	Pipe Depth above Invert (m)	0.000
Safety Factor	2.0	Number of Pipes	1
Porosity	0.30	Slope (1:X)	0.0
Invert Level (m)	4.060	Cap Volume Depth (m)	1.000
Trench Width (m)	2.4	Cap Infiltration Depth (m)	0.000
Trench Length (m)	25.5		

©1982-2020 Innovyze

RSK LDE		Page 101
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Swale

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	25.5
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	3.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	1.00	Cap Volume Depth (m)	0.300
Invert Level (m)	4.950	Cap Infiltration Depth (m)	0.000
Base Width (m)	0.8	Include Swale Volume	Yes

Complex Manhole: S232, DS/PN: 48.020

Filter Drain

Infiltration Coefficient Base (m/hr)	0.00000	Pipe Diameter (m)	0.300
Infiltration Coefficient Side (m/hr)	0.00000	Pipe Depth above Invert (m)	0.000
Safety Factor	2.0	Number of Pipes	1
Porosity	0.30	Slope (1:X)	0.0
Invert Level (m)	3.950	Cap Volume Depth (m)	0.900
Trench Width (m)	2.4	Cap Infiltration Depth (m)	0.000
Trench Length (m)	28.2		

Swale

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	28.2
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	4.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	1.00	Cap Volume Depth (m)	0.300
Invert Level (m)	4.850	Cap Infiltration Depth (m)	0.000
Base Width (m)	0.8	Include Swale Volume	Yes

Complex Manhole: S233, DS/PN: 48.021

Filter Drain

Infiltration Coefficient Base (m/hr)	0.00000	Pipe Diameter (m)	0.300
Infiltration Coefficient Side (m/hr)	0.00000	Pipe Depth above Invert (m)	0.000
Safety Factor	2.0	Number of Pipes	1
Porosity	0.30	Slope (1:X)	0.0
Invert Level (m)	3.900	Cap Volume Depth (m)	0.950
Trench Width (m)	2.4	Cap Infiltration Depth (m)	0.000
Trench Length (m)	10.4		

©1982-2020 Innovyze

RSK LDE		Page 102																																																																																																																								
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data																																																																																																																									
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by																																																																																																																									
XP Solutions Network 2020.1.3																																																																																																																										
Swale Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Length (m)</td><td>10.4</td></tr><tr><td>Infiltration Coefficient Side (m/hr)</td><td>0.00000</td><td>Side Slope (1:X)</td><td>3.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Porosity</td><td>1.00</td><td>Cap Volume Depth (m)</td><td>0.300</td></tr><tr><td>Invert Level (m)</td><td>4.850</td><td>Cap Infiltration Depth (m)</td><td>0.000</td></tr><tr><td>Base Width (m)</td><td>0.8</td><td>Include Swale Volume</td><td>Yes</td></tr></table> Porous Car Park Manhole: S235, DS/PN: 63.001 <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>14.9</td></tr><tr><td>Max Percolation (l/s)</td><td>41.4</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.440</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> Porous Car Park Manhole: S236, DS/PN: 64.000 <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>19.1</td></tr><tr><td>Max Percolation (l/s)</td><td>53.1</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.500</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> Porous Car Park Manhole: S238, DS/PN: 65.000 <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>7.3</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.0</td></tr><tr><td>Max Percolation (l/s)</td><td>20.3</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.550</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> Porous Car Park Manhole: S242, DS/PN: 66.000 <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.6</td></tr><tr><td>Max Percolation (l/s)</td><td>29.4</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>4.800</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> Complex Manhole: S246, DS/PN: 48.022			Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	10.4	Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	3.0	Safety Factor	2.0	Slope (1:X)	0.0	Porosity	1.00	Cap Volume Depth (m)	0.300	Invert Level (m)	4.850	Cap Infiltration Depth (m)	0.000	Base Width (m)	0.8	Include Swale Volume	Yes	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	14.9	Max Percolation (l/s)	41.4	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.440	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	19.1	Max Percolation (l/s)	53.1	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.500	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	7.3	Membrane Percolation (mm/hr)	1000	Length (m)	10.0	Max Percolation (l/s)	20.3	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.550	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0	Membrane Percolation (mm/hr)	1000	Length (m)	10.6	Max Percolation (l/s)	29.4	Slope (1:X)	100.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	4.800	Cap Volume Depth (m)	0.450
Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	10.4																																																																																																																							
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	3.0																																																																																																																							
Safety Factor	2.0	Slope (1:X)	0.0																																																																																																																							
Porosity	1.00	Cap Volume Depth (m)	0.300																																																																																																																							
Invert Level (m)	4.850	Cap Infiltration Depth (m)	0.000																																																																																																																							
Base Width (m)	0.8	Include Swale Volume	Yes																																																																																																																							
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																							
Membrane Percolation (mm/hr)	1000	Length (m)	14.9																																																																																																																							
Max Percolation (l/s)	41.4	Slope (1:X)	100.0																																																																																																																							
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																							
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																							
Invert Level (m)	5.440	Cap Volume Depth (m)	0.450																																																																																																																							
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																							
Membrane Percolation (mm/hr)	1000	Length (m)	19.1																																																																																																																							
Max Percolation (l/s)	53.1	Slope (1:X)	100.0																																																																																																																							
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																							
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																							
Invert Level (m)	5.500	Cap Volume Depth (m)	0.450																																																																																																																							
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	7.3																																																																																																																							
Membrane Percolation (mm/hr)	1000	Length (m)	10.0																																																																																																																							
Max Percolation (l/s)	20.3	Slope (1:X)	100.0																																																																																																																							
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																							
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																							
Invert Level (m)	5.550	Cap Volume Depth (m)	0.450																																																																																																																							
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0																																																																																																																							
Membrane Percolation (mm/hr)	1000	Length (m)	10.6																																																																																																																							
Max Percolation (l/s)	29.4	Slope (1:X)	100.0																																																																																																																							
Safety Factor	2.0	Depression Storage (mm)	5																																																																																																																							
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																							
Invert Level (m)	4.800	Cap Volume Depth (m)	0.450																																																																																																																							
©1982-2020 Innovyze																																																																																																																										

RSK LDE		Page 103
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Cellular Storage

Invert Level (m) 3.750 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	102.0	102.0	0.900	0.0	136.3
0.800	102.0	134.3			

Swale

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr) 0.00000 Length (m) 12.6
Infiltration Coefficient Side (m/hr) 0.00000 Side Slope (1:X) 3.0
Safety Factor 2.0 Slope (1:X) 0.0
Porosity 1.00 Cap Volume Depth (m) 0.300
Invert Level (m) 4.700 Cap Infiltration Depth (m) 0.000
Base Width (m) 0.8 Include Swale Volume Yes

Filter Drain

Infiltration Coefficient Base (m/hr) 0.00000 Pipe Diameter (m) 0.300
Infiltration Coefficient Side (m/hr) 0.00000 Pipe Depth above Invert (m) 0.000
Safety Factor 2.0 Number of Pipes 1
Porosity 0.30 Slope (1:X) 0.0
Invert Level (m) 4.750 Cap Volume Depth (m) 0.950
Trench Width (m) 2.4 Cap Infiltration Depth (m) 0.000
Trench Length (m) 12.6

Porous Car Park Manhole: S247, DS/PN: 67.000

Infiltration Coefficient Base (m/hr) 0.00000 Width (m) 10.0
Membrane Percolation (mm/hr) 1000 Length (m) 22.1
Max Percolation (l/s) 61.4 Slope (1:X) 100.0
Safety Factor 2.0 Depression Storage (mm) 5
Porosity 0.30 Evaporation (mm/day) 3
Invert Level (m) 4.600 Cap Volume Depth (m) 0.450

Complex Manhole: S248, DS/PN: 67.001

Cellular Storage

Invert Level (m) 4.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

©1982-2020 Innovyze

RSK LDE		Page 104
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions Network 2020.1.3		

Cellular Storage

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	20.0	20.0	0.500	0.0	28.0
0.400	20.0	27.2			

Complex Manhole: S249, DS/PN: 48.023

Filter Drain

Infiltration Coefficient Base (m/hr)	0.00000	Pipe Diameter (m)	0.300
Infiltration Coefficient Side (m/hr)	0.00000	Pipe Depth above Invert (m)	0.000
Safety Factor	2.0	Number of Pipes	1
Porosity	0.30	Slope (1:X)	0.0
Invert Level (m)	3.750	Cap Volume Depth (m)	0.450
Trench Width (m)	2.4	Cap Infiltration Depth (m)	0.000
Trench Length (m)	33.0		

Swale

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	33.0
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	3.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	1.00	Cap Volume Depth (m)	0.300
Invert Level (m)	4.200	Cap Infiltration Depth (m)	0.000
Base Width (m)	0.8	Include Swale Volume	Yes

Complex Manhole: S250, DS/PN: 1.027

Tank or Pond

Invert Level (m) 3.700

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	178.0	0.750	326.9

Cellular Storage

Invert Level (m)	3.700	Safety Factor	2.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95
Infiltration Coefficient Side (m/hr)	0.00000		

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	250.0	0.0	0.400	250.0	0.0

©1982-2020 Innovyze

RSK LDE

Page 105

18 Frogmore Road
Hemel Hempstead
Hertfordshire HP3 9RT

Date 24/09/2021 15:48
File 133981 - Drove Lane, Ya...

XP Solutions

Drove Lane, Yapton
Surface Water Network
Calculations - FEH Data

Designed by AMuthusami
Checked by

Network 2020.1.3

Micro
Drainage

Cellular Storage

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.500	0.0	0.0			

Time Area Diagram at Pipe Number 2.000 for Surface Network 1

Total Area (ha) 0.046

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.046

Time Area Diagram at Pipe Number 2.001 for Surface Network 1

Total Area (ha) 0.009

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	4	8 0.000	8	12 0.000	12	16 0.009

Time Area Diagram at Pipe Number 3.000 for Surface Network 1

Total Area (ha) 0.004

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.004

Time Area Diagram at Pipe Number 4.000 for Surface Network 1

Total Area (ha) 0.011

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.011

Time Area Diagram at Pipe Number 3.007 for Surface Network 1

Total Area (ha) 0.005

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	4	8 0.000	8	12 0.000	12	16 0.000

©1982-2020 Innovyze

RSK LDE			Page 106		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data		
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by		
XP Solutions			Network 2020.1.3		

Time Area Diagram at Pipe Number 3.007 for Surface Network 1

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From:	To: (ha)	From:	To: (ha)	From:	To: (ha)	From:	To: (ha)
16	20 0.000	20	24 0.000	24	28 0.000	28	32 0.005

Time Area Diagram at Pipe Number 6.000 for Surface Network 1

Total Area (ha) 0.033

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From:	To: (ha)	From:	To: (ha)	From:	To: (ha)	From:	To: (ha)
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.033

Time Area Diagram at Pipe Number 7.000 for Surface Network 1

Total Area (ha) 0.043

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From:	To: (ha)	From:	To: (ha)	From:	To: (ha)	From:	To: (ha)
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.043

Time Area Diagram at Pipe Number 3.011 for Surface Network 1

Total Area (ha) 0.022

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From:	To: (ha)	From:	To: (ha)	From:	To: (ha)	From:	To: (ha)
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.022

Time Area Diagram at Pipe Number 8.000 for Surface Network 1

Total Area (ha) 0.024

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From:	To: (ha)	From:	To: (ha)	From:	To: (ha)
0	4 0.000	12	16 0.000	24	28 0.000
4	8 0.000	16	20 0.000	28	32 0.000
8	12 0.000	20	24 0.000	32	36 0.024

Time Area Diagram at Pipe Number 9.000 for Surface Network 1

Total Area (ha) 0.038

©1982-2020 Innovyze

RSK LDE			Page 107		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data		
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by		
XP Solutions			Network 2020.1.3		

Time Area Diagram at Pipe Number 9.000 for Surface Network 1

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.038

Time Area Diagram at Pipe Number 10.000 for Surface Network 1

Total Area (ha) 0.043

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.043

Time Area Diagram at Pipe Number 13.000 for Surface Network 1

Total Area (ha) 0.020

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.020

Time Area Diagram at Pipe Number 14.000 for Surface Network 1

Total Area (ha) 0.022

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.019	20	24 0.000	28	32 0.003

Time Area Diagram at Pipe Number 14.003 for Surface Network 1

Total Area (ha) 0.016

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.016

Time Area Diagram at Pipe Number 15.000 for Surface Network 1

Total Area (ha) 0.034

©1982-2020 Innovyze

RSK LDE			Page 108		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data		
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by		
XP Solutions			Network 2020.1.3		

Time Area Diagram at Pipe Number 15.000 for Surface Network 1

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.034

Time Area Diagram at Pipe Number 16.000 for Surface Network 1

Total Area (ha) 0.016

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.016

Time Area Diagram at Pipe Number 15.002 for Surface Network 1

Total Area (ha) 0.035

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.035

Time Area Diagram at Pipe Number 15.003 for Surface Network 1

Total Area (ha) 0.012

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.012

Time Area Diagram at Pipe Number 15.004 for Surface Network 1

Total Area (ha) 0.012

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.009	20	24 0.000	28	32 0.003

Time Area Diagram at Pipe Number 17.000 for Surface Network 1

Total Area (ha) 0.014

©1982-2020 Innovyze

RSK LDE			Page 109		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data		
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by		
XP Solutions			Network 2020.1.3		

RSK LDE			Page 110		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data		
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by		
XP Solutions			Network 2020.1.3		

Time Area Diagram at Pipe Number 21.000 for Surface Network 1

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)	From: To:	(ha)	From: To:	(ha)
0 4	0.000	8 12	0.000	16 20	0.000	24 28	0.000
4 8	0.000	12 16	0.000	20 24	0.000	28 32	0.022

Time Area Diagram at Pipe Number 20.004 for Surface Network 1

Total Area (ha) 0.051

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)	From: To:	(ha)	From: To:	(ha)
0 4	0.000	8 12	0.000	16 20	0.000	24 28	0.000
4 8	0.000	12 16	0.000	20 24	0.000	28 32	0.051

Time Area Diagram at Pipe Number 22.000 for Surface Network 1

Total Area (ha) 0.069

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)	From: To:	(ha)	From: To:	(ha)
0 4	0.000	8 12	0.000	16 20	0.000	24 28	0.000
4 8	0.000	12 16	0.000	20 24	0.000	28 32	0.069

Time Area Diagram at Pipe Number 22.003 for Surface Network 1

Total Area (ha) 0.013

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)	From: To:	(ha)	From: To:	(ha)
0 4	0.000	8 12	0.000	16 20	0.000	24 28	0.000
4 8	0.000	12 16	0.000	20 24	0.000	28 32	0.013

Time Area Diagram at Pipe Number 22.004 for Surface Network 1

Total Area (ha) 0.031

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)	From: To:	(ha)	From: To:	(ha)
0 4	0.000	8 12	0.000	16 20	0.000	24 28	0.000
4 8	0.000	12 16	0.027	20 24	0.000	28 32	0.004

Time Area Diagram at Pipe Number 23.000 for Surface Network 1

Total Area (ha) 0.016

©1982-2020 Innovyze

RSK LDE			Page 111		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data		
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by		
XP Solutions			Network 2020.1.3		

Time Area Diagram at Pipe Number 23.000 for Surface Network 1

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.016

Time Area Diagram at Pipe Number 24.000 for Surface Network 1

Total Area (ha) 0.012

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.012

Time Area Diagram at Pipe Number 22.009 for Surface Network 1

Total Area (ha) 0.026

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.026

Time Area Diagram at Pipe Number 25.000 for Surface Network 1

Total Area (ha) 0.008

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.008

Time Area Diagram at Pipe Number 25.001 for Surface Network 1

Total Area (ha) 0.013

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.013

Time Area Diagram at Pipe Number 25.002 for Surface Network 1

Total Area (ha) 0.010

©1982-2020 Innovyze

RSK LDE			Page 112		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data		
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by		
XP Solutions			Network 2020.1.3		

Time Area Diagram at Pipe Number 25.002 for Surface Network 1

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.010

Time Area Diagram at Pipe Number 25.003 for Surface Network 1

Total Area (ha) 0.015

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.007	20	24 0.000	28	32 0.008

Time Area Diagram at Pipe Number 29.000 for Surface Network 1

Total Area (ha) 0.013

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.013

Time Area Diagram at Pipe Number 30.000 for Surface Network 1

Total Area (ha) 0.031

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.031

Time Area Diagram at Pipe Number 31.000 for Surface Network 1

Total Area (ha) 0.009

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.009

Time Area Diagram at Pipe Number 31.002 for Surface Network 1

Total Area (ha) 0.027

©1982-2020 Innovyze

RSK LDE			Page 113		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data		
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by		
XP Solutions			Network 2020.1.3		

Time Area Diagram at Pipe Number 31.002 for Surface Network 1

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.027

Time Area Diagram at Pipe Number 33.000 for Surface Network 1

Total Area (ha) 0.013

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.013

Time Area Diagram at Pipe Number 34.000 for Surface Network 1

Total Area (ha) 0.032

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.032

Time Area Diagram at Pipe Number 34.001 for Surface Network 1

Total Area (ha) 0.010

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.010

Time Area Diagram at Pipe Number 36.000 for Surface Network 1

Total Area (ha) 0.076

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.076

Time Area Diagram at Pipe Number 37.000 for Surface Network 1

Total Area (ha) 0.020

©1982-2020 Innovyze

RSK LDE			Page 114		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data		
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by		
XP Solutions			Network 2020.1.3		

Time Area Diagram at Pipe Number 37.000 for Surface Network 1

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From:	To: (ha)	From:	To: (ha)	From:	To: (ha)	From:	To: (ha)
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.020

Time Area Diagram at Pipe Number 38.001 for Surface Network 1

Total Area (ha) 0.024

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From:	To: (ha)	From:	To: (ha)	From:	To: (ha)	From:	To: (ha)
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.024

Time Area Diagram at Pipe Number 40.000 for Surface Network 1

Total Area (ha) 0.016

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From:	To: (ha)	From:	To: (ha)	From:	To: (ha)	From:	To: (ha)
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.016

Time Area Diagram at Pipe Number 41.000 for Surface Network 1

Total Area (ha) 0.014

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From:	To: (ha)	From:	To: (ha)	From:	To: (ha)	From:	To: (ha)
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.014

Time Area Diagram at Pipe Number 20.022 for Surface Network 1

Total Area (ha) 0.031

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From:	To: (ha)	From:	To: (ha)	From:	To: (ha)	From:	To: (ha)
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.031

Time Area Diagram at Pipe Number 43.000 for Surface Network 1

Total Area (ha) 0.018

©1982-2020 Innovyze

RSK LDE			Page 115		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data		
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by		
XP Solutions			Network 2020.1.3		

Time Area Diagram at Pipe Number 43.000 for Surface Network 1

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From:	To: (ha)	From:	To: (ha)	From:	To: (ha)	From:	To: (ha)
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.018

Time Area Diagram at Pipe Number 44.000 for Surface Network 1

Total Area (ha) 0.007

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From:	To: (ha)	From:	To: (ha)	From:	To: (ha)	From:	To: (ha)
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.007

Time Area Diagram at Pipe Number 45.000 for Surface Network 1

Total Area (ha) 0.010

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From:	To: (ha)	From:	To: (ha)	From:	To: (ha)	From:	To: (ha)
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.010

Time Area Diagram at Pipe Number 46.000 for Surface Network 1

Total Area (ha) 0.029

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From:	To: (ha)	From:	To: (ha)	From:	To: (ha)	From:	To: (ha)
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.029

Time Area Diagram at Pipe Number 47.000 for Surface Network 1

Total Area (ha) 0.024

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From:	To: (ha)	From:	To: (ha)	From:	To: (ha)	From:	To: (ha)
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.024

Time Area Diagram at Pipe Number 48.000 for Surface Network 1

Total Area (ha) 0.021

©1982-2020 Innovyze

RSK LDE			Page 116		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data		
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by		
XP Solutions			Network 2020.1.3		

Time Area Diagram at Pipe Number 48.000 for Surface Network 1

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.021

Time Area Diagram at Pipe Number 48.002 for Surface Network 1

Total Area (ha) 0.011

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.011

Time Area Diagram at Pipe Number 48.003 for Surface Network 1

Total Area (ha) 0.005

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.005

Time Area Diagram at Pipe Number 50.000 for Surface Network 1

Total Area (ha) 0.013

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.013

Time Area Diagram at Pipe Number 48.006 for Surface Network 1

Total Area (ha) 0.025

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:	From:	To:
0	4 0.000	8	12 0.000	16	20 0.000	24	28 0.000
4	8 0.000	12	16 0.000	20	24 0.000	28	32 0.025

Time Area Diagram at Pipe Number 51.000 for Surface Network 1

Total Area (ha) 0.017

©1982-2020 Innovyze

RSK LDE			Page 117		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data		
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by		
XP Solutions			Network 2020.1.3		

Time Area Diagram at Pipe Number 51.000 for Surface Network 1

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)
0 4 0.000	8 12 0.000	16 20 0.000	24 28 0.000				
4 8 0.000	12 16 0.000	20 24 0.000	28 32 0.017				

Time Area Diagram at Pipe Number 52.000 for Surface Network 1

Total Area (ha) 0.008

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)
0 4 0.000	8 12 0.000	16 20 0.000	24 28 0.000				
4 8 0.000	12 16 0.000	20 24 0.000	28 32 0.008				

Time Area Diagram at Pipe Number 53.000 for Surface Network 1

Total Area (ha) 0.004

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)
0 4 0.000	8 12 0.000	16 20 0.000	24 28 0.000				
4 8 0.000	12 16 0.000	20 24 0.000	28 32 0.004				

Time Area Diagram at Pipe Number 52.002 for Surface Network 1

Total Area (ha) 0.009

Time (mins)	Area	Time (mins)	Area
From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)
0 4 0.000	4 8 0.009		

Time Area Diagram at Pipe Number 54.000 for Surface Network 1

Total Area (ha) 0.018

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)
0 4 0.000	8 12 0.000	16 20 0.000	24 28 0.000				
4 8 0.000	12 16 0.000	20 24 0.000	28 32 0.018				

Time Area Diagram at Pipe Number 56.000 for Surface Network 1

Total Area (ha) 0.022

©1982-2020 Innovyze

RSK LDE			Page 118		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data		
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by		
XP Solutions			Network 2020.1.3		

RSK LDE			Page 119		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data		
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by		
XP Solutions			Network 2020.1.3		

RSK LDE			Page 120		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT			Drove Lane, Yapton Surface Water Network Calculations - FEH Data		
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...			Designed by AMuthusami Checked by		
XP Solutions			Network 2020.1.3		

Time Area Diagram at Pipe Number 64.000 for Surface Network 1

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)
0 4 0.000	8 12 0.000	16 20 0.000	24 28 0.000				
4 8 0.000	12 16 0.000	20 24 0.000	28 32 0.019				

Time Area Diagram at Pipe Number 65.000 for Surface Network 1

Total Area (ha) 0.007

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)
0 4 0.000	8 12 0.000	16 20 0.000	24 28 0.000				
4 8 0.000	12 16 0.000	20 24 0.000	28 32 0.007				

Time Area Diagram at Pipe Number 66.000 for Surface Network 1

Total Area (ha) 0.011

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)
0 4 0.000	8 12 0.000	16 20 0.000	24 28 0.000				
4 8 0.000	12 16 0.000	20 24 0.000	28 32 0.011				

Time Area Diagram at Pipe Number 67.000 for Surface Network 1

Total Area (ha) 0.022

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)	From: To: (ha)
0 4 0.000	8 12 0.000	16 20 0.000	24 28 0.000				
4 8 0.000	12 16 0.000	20 24 0.000	28 32 0.022				

©1982-2020 Innovyze

RSK LDE						Page 123		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT				Drove Lane, Yapton Surface Water Network Calculations - FEH Data				
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...				Designed by AMuthusami Checked by				
XP Solutions				Network 2020.1.3				
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>								
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
4.000	S13b	240 Winter	100	+40%	100/15 Summer			
3.001	S13	240 Winter	100	+40%	100/15 Summer			
3.002	S14	240 Winter	100	+40%	100/15 Summer			
3.003	S15	240 Winter	100	+40%	100/15 Summer			
3.004	S16	240 Winter	100	+40%	100/15 Summer			
3.005	S17	240 Winter	100	+40%	100/240 Winter			
3.006	S18	240 Winter	100	+40%	100/15 Summer			
5.000	S19	15 Winter	100	+40%	100/15 Summer			
3.007	S20	240 Winter	100	+40%	100/15 Summer			
3.008	S21	240 Winter	100	+40%	100/15 Summer			
6.000	S255	480 Winter	100	+40%	100/30 Summer			
6.001	S254	480 Winter	100	+40%	100/30 Summer			
6.002	S22	480 Winter	100	+40%	100/60 Winter			
7.000	S23	30 Summer	100	+40%	100/15 Summer			
3.009	S24	240 Winter	100	+40%	100/15 Summer			
3.010	S26	240 Winter	100	+40%	100/15 Summer			
3.011	S27	240 Winter	100	+40%	100/15 Summer			
3.012	S28	240 Winter	100	+40%	100/15 Summer			
8.000	S29	240 Winter	100	+40%	100/15 Summer			
3.013	S30	240 Winter	100	+40%	100/15 Summer			
3.014	S31	240 Winter	100	+40%	100/15 Summer			
1.006	S32	240 Winter	100	+40%	100/15 Summer			
9.000	S33	15 Winter	100	+40%	100/15 Summer			
10.000	S34	360 Winter	100	+40%	100/15 Summer			
9.001	S35	360 Winter	100	+40%	100/15 Summer			
1.007	S36	360 Winter	100	+40%	100/15 Summer			
1.008	S37	360 Winter	100	+40%	100/15 Summer			
1.009	S38	360 Winter	100	+40%	100/15 Summer			
1.010	S39	240 Winter	100	+40%	100/15 Summer			
11.000	S112	15 Winter	100	+40%	100/15 Summer			
11.001	S111	15 Winter	100	+40%	100/15 Summer			
11.002	S40	15 Winter	100	+40%	100/15 Summer			
11.003	S41	30 Winter	100	+40%	100/15 Summer			
11.004	S42	30 Winter	100	+40%	100/15 Summer			
12.000	S257	15 Winter	100	+40%	100/15 Summer			
12.001	S256	15 Winter	100	+40%	100/15 Summer			
11.005	S43	15 Winter	100	+40%	100/15 Summer			
11.006	S44	15 Winter	100	+40%	100/15 Summer			
11.007	S45	15 Winter	100	+40%	100/15 Summer	100/15 Summer		
11.008	S46	120 Winter	100	+40%	100/15 Summer			
11.009	S47	120 Winter	100	+40%	100/15 Summer			
1.011	S48	240 Winter	100	+40%	100/15 Summer			
1.012	S49	480 Winter	100	+40%	100/15 Summer			
1.013	S50	960 Winter	100	+40%	100/15 Summer			
13.000	S51	15 Winter	100	+40%	100/15 Summer			
13.001	S52	15 Summer	100	+40%	100/15 Summer			
1.014	S53	1440 Winter	100	+40%	100/240 Summer			
1.015	S54	1440 Winter	100	+40%	100/120 Summer			
©1982-2020 Innovyze								

RSK LDE							Page 124		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT				Drove Lane, Yapton Surface Water Network Calculations - FEH Data					
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...				Designed by AMuthusami Checked by					
XP Solutions				Network 2020.1.3					
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>									
PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	
4.000	S13b	6.292	0.217	0.000	0.10		1.3	SURCHARGED	
3.001	S13	6.291	0.261	0.000	0.27		3.8	SURCHARGED	
3.002	S14	6.289	0.319	0.000	0.21		3.7	SURCHARGED	
3.003	S15	6.287	0.397	0.000	0.29		3.7	SURCHARGED	
3.004	S16	6.285	0.435	0.000	0.82		3.6	SURCHARGED	
3.005	S17	6.281	0.016	0.000	0.14		2.0	SURCHARGED	
3.006	S18	6.279	0.104	0.000	0.26		3.2	SURCHARGED	
5.000	S19	6.321	0.071	0.000	0.83		12.5	SURCHARGED	
3.007	S20	6.277	0.152	0.000	0.40	194	5.4	SURCHARGED	
3.008	S21	6.272	0.242	0.000	0.19		5.2	SURCHARGED	
6.000	S255	6.099	0.329	0.000	0.07		0.7	SURCHARGED	
6.001	S254	6.099	0.329	0.000	0.08		0.7	SURCHARGED	
6.002	S22	6.100	0.255	0.000	0.02		0.7	SURCHARGED	
7.000	S23	6.338	0.334	0.000	0.80	8	23.5	SURCHARGED	
3.009	S24	6.267	0.534	0.000	0.23		10.7	SURCHARGED	
3.010	S26	6.267	0.557	0.000	0.25		12.3	SURCHARGED	
3.011	S27	6.266	0.584	0.000	0.25	104	14.7	SURCHARGED	
3.012	S28	6.295	0.713	0.000	0.26		14.6	FLOOD RISK	
8.000	S29	6.254	0.647	0.000	0.23	158	3.1	SURCHARGED	
3.013	S30	6.296	0.776	0.000	0.30		17.0	FLOOD RISK	
3.014	S31	6.296	0.816	0.000	0.29		16.8	FLOOD RISK	
1.006	S32	6.294	0.844	0.000	0.15		5.0	SURCHARGED	
9.000	S33	5.864	0.254	0.000	0.99	5	14.4	SURCHARGED	
10.000	S34	5.863	0.363	0.000	0.28	195	3.7	SURCHARGED	
9.001	S35	5.862	0.422	0.000	0.63		6.9	SURCHARGED	
1.007	S36	5.862	0.442	0.000	0.30		8.0	SURCHARGED	
1.008	S37	5.914	0.494	0.000	0.13		7.1	SURCHARGED	
1.009	S38	5.920	0.650	0.000	0.37		6.3	SURCHARGED	
1.010	S39	5.721	0.611	0.000	0.43		6.3	SURCHARGED	
11.000	S112	6.425	0.225	0.000	0.47		6.9	SURCHARGED	
11.001	S111	6.395	0.345	0.000	0.50		7.2	SURCHARGED	
11.002	S40	6.369	0.419	0.000	1.56		19.3	SURCHARGED	
11.003	S41	6.259	0.429	0.000	0.79	20	12.5	SURCHARGED	
11.004	S42	6.282	0.522	0.000	0.59		12.8	SURCHARGED	
12.000	S257	6.616	0.966	0.000	0.95		13.5	FLOOD RISK	
12.001	S256	6.481	0.971	0.000	0.97		13.4	FLOOD RISK	
11.005	S43	6.397	0.987	0.000	0.91		14.4	FLOOD RISK	
11.006	S44	6.436	1.136	0.000	1.08		15.3	FLOOD RISK	
11.007	S45	6.294	1.144	0.921	3.56		25.5	FLOOD	
11.008	S46	5.748	0.648	0.000	1.77		21.2	SURCHARGED	
11.009	S47	5.721	0.671	0.000	0.82		9.7	SURCHARGED	
1.011	S48	5.707	0.707	0.000	0.66		9.0	SURCHARGED	
1.012	S49	5.401	0.376	0.000	0.25		8.0	SURCHARGED	
1.013	S50	5.452	0.513	0.000	0.26		7.8	SURCHARGED	
13.000	S51	5.403	0.003	0.000	0.87	4	12.9	SURCHARGED	
13.001	S52	5.247	0.037	0.000	1.45		13.0	SURCHARGED	
1.014	S53	5.145	0.252	0.000	0.27		8.0	SURCHARGED	
©1982-2020 Innovyze									

RSK LDE

Page 125

18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP SolutionsNetwork 2020.1.3		

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1

		Water	Surcharged	Flooded		Half Drain	Pipe	
PN	US/MH Name	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	Status
1.015	S54	5.129	0.362	0.000	0.20		8.0	SURCHARGED
				</				

RSK LDE		Page 126																								
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data																									
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by																									
XP Solutions Network 2020.1.3																										
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>																										
	<table><thead><tr><th>PN</th><th>US/MH Name</th><th>Level Exceeded</th></tr></thead><tbody><tr><td>1.011</td><td>S48</td><td></td></tr><tr><td>1.012</td><td>S49</td><td></td></tr><tr><td>1.013</td><td>S50</td><td></td></tr><tr><td>13.000</td><td>S51</td><td></td></tr><tr><td>13.001</td><td>S52</td><td></td></tr><tr><td>1.014</td><td>S53</td><td></td></tr><tr><td>1.015</td><td>S54</td><td></td></tr></tbody></table>	PN	US/MH Name	Level Exceeded	1.011	S48		1.012	S49		1.013	S50		13.000	S51		13.001	S52		1.014	S53		1.015	S54		
PN	US/MH Name	Level Exceeded																								
1.011	S48																									
1.012	S49																									
1.013	S50																									
13.000	S51																									
13.001	S52																									
1.014	S53																									
1.015	S54																									
©1982-2020 Innovyze																										

RSK LDE						Page 127		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT				Drove Lane, Yapton Surface Water Network Calculations - FEH Data				
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...				Designed by AMuthusami Checked by				
XP Solutions				Network 2020.1.3				
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>								
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.016	S55	1440 Winter	100	+40%	100/15 Summer			
14.000	S56a	15 Winter	100	+40%				
14.001	S56	1440 Winter	100	+40%	100/360 Winter			
14.002	S57	1440 Winter	100	+40%	100/120 Winter			
14.003	S58	1440 Winter	100	+40%	100/15 Summer			
14.004	S59	1440 Winter	100	+40%	100/15 Summer			
1.017	S60	1440 Winter	100	+40%	100/15 Summer			
15.000	S61	15 Winter	100	+40%				
16.000	S62	15 Winter	100	+40%				
15.001	S63	15 Winter	100	+40%	100/15 Summer			
15.002	S64	15 Winter	100	+40%				
15.003	S65	15 Winter	100	+40%				
15.004	S66	1440 Winter	100	+40%	100/960 Winter			
17.000	S67	1440 Winter	100	+40%				
17.001	S68	1440 Winter	100	+40%	100/360 Winter			
15.005	S69	1440 Winter	100	+40%	100/15 Summer			
15.006	S70	1440 Winter	100	+40%	100/15 Summer			
15.007	S71	1440 Winter	100	+40%	100/15 Summer			
18.000	S72	15 Winter	100	+40%	100/15 Summer			
19.000	S73	15 Winter	100	+40%	100/15 Summer			
18.001	S74	15 Winter	100	+40%	100/15 Summer			
18.002	S75	15 Winter	100	+40%	100/15 Summer			
1.018	S76	1440 Winter	100	+40%	100/15 Summer			
1.019	S77	1440 Winter	100	+40%	100/15 Summer			
1.020	S78	1440 Winter	100	+40%	100/15 Winter			
1.021	S79	1440 Winter	100	+40%	100/15 Summer			
20.000	S80	960 Winter	100	+40%	100/120 Summer			
20.001	S81	960 Winter	100	+40%	100/60 Winter			
21.000	S82	960 Winter	100	+40%	100/15 Summer			
20.002	S83	960 Winter	100	+40%	100/60 Winter			
20.003	S84	960 Winter	100	+40%	100/30 Winter			
20.004	S85	960 Winter	100	+40%	100/30 Winter			
20.005	S86	960 Winter	100	+40%	100/30 Summer			
20.006	S87	960 Winter	100	+40%	100/15 Summer			
20.007	S88	960 Winter	100	+40%	100/15 Summer			
20.008	S89	480 Winter	100	+40%	100/30 Summer			
22.000	S253	480 Winter	100	+40%	100/15 Winter			
22.001	S90	480 Winter	100	+40%	100/60 Winter			
22.002	S91	480 Winter	100	+40%	100/15 Winter			
22.003	S92	480 Winter	100	+40%	100/15 Summer			
22.004	S93	480 Winter	100	+40%	100/15 Summer			
22.005	S94	480 Winter	100	+40%	100/15 Summer			
22.006	S95	480 Winter	100	+40%	100/15 Summer			
23.000	S96	480 Winter	100	+40%	100/120 Winter			
23.001	S97	480 Winter	100	+40%	100/60 Summer			
24.000	S98	480 Winter	100	+40%	100/120 Winter			
22.007	S99	480 Winter	100	+40%	100/15 Summer			
22.008	S100	480 Winter	100	+40%	100/15 Winter			
©1982-2020 Innovyze								

RSK LDE							Page 128		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT				Drove Lane, Yapton Surface Water Network Calculations - FEH Data					
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...				Designed by AMuthusami Checked by					
XP Solutions				Network 2020.1.3					
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>									
PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	
1.016	S55	5.116	0.539	0.000	0.20		8.0	SURCHARGED	
14.000	S56a	5.212	-0.053	0.000	0.72	4	12.2	OK	
14.001	S56	5.108	0.168	0.000	0.06		1.0	SURCHARGED	
14.002	S57	5.108	0.308	0.000	0.06		1.0	SURCHARGED	
14.003	S58	5.108	0.398	0.000	0.09	1313	1.4	SURCHARGED	
14.004	S59	5.108	0.508	0.000	0.11		2.1	SURCHARGED	
1.017	S60	5.108	0.558	0.000	0.24		8.0	SURCHARGED	
15.000	S61	6.319	-0.016	0.000	0.85	5	13.2	OK	
16.000	S62	6.084	-0.056	0.000	0.69	5	10.5	OK	
15.001	S63	5.987	0.127	0.000	1.29		19.7	SURCHARGED	
15.002	S64	5.630	-0.030	0.000	0.98	7	35.4	OK	
15.003	S65	5.174	-0.156	0.000	0.45	10	41.0	OK	
15.004	S66	5.100	0.060	0.000	0.03	702	3.1	SURCHARGED	
17.000	S67	5.100	-0.010	0.000	0.03	537	0.4	OK	
17.001	S68	5.100	0.150	0.000	0.01		0.4	SURCHARGED	
15.005	S69	5.100	0.410	0.000	0.06		4.0	SURCHARGED	
15.006	S70	5.100	0.510	0.000	0.08		4.7	SURCHARGED	
15.007	S71	5.100	0.540	0.000	0.08		4.7	SURCHARGED	
18.000	S72	5.472	0.262	0.000	0.81	4	12.5	SURCHARGED	
19.000	S73	5.402	0.122	0.000	0.58	4	14.2	SURCHARGED	
18.001	S74	5.341	0.341	0.000	1.62		23.1	SURCHARGED	
18.002	S75	5.143	0.223	0.000	1.16		22.4	SURCHARGED	
1.018	S76	5.100	0.600	0.000	0.10		6.3	SURCHARGED	
1.019	S77	5.093	0.643	0.000	0.10		5.9	SURCHARGED	
1.020	S78	4.916	0.516	0.000	0.15		5.9	SURCHARGED	
1.021	S79	4.911	0.561	0.000	0.07		6.0	SURCHARGED	
20.000	S80	6.283	0.398	0.000	0.01	475	0.4	SURCHARGED	
20.001	S81	6.283	0.465	0.000	0.03	571	1.0	SURCHARGED	
21.000	S82	6.283	0.510	0.000	0.07	146	0.9	SURCHARGED	
20.002	S83	6.283	0.571	0.000	0.05		2.8	SURCHARGED	
20.003	S84	6.283	0.626	0.000	0.05		2.7	FLOOD RISK	
20.004	S85	6.283	0.701	0.000	0.08	272	4.6	FLOOD RISK	
20.005	S86	6.282	0.799	0.000	0.08		4.8	FLOOD RISK	
20.006	S87	6.281	0.906	0.000	0.08		4.7	SURCHARGED	
20.007	S88	6.281	0.951	0.000	0.04	676	2.4	FLOOD RISK	
20.008	S89	6.296	1.053	0.000	0.04		1.9	FLOOD RISK	
22.000	S253	6.311	0.261	0.000	0.50	298	4.8	SURCHARGED	
22.001	S90	6.310	0.260	0.000	0.27		4.8	SURCHARGED	
22.002	S91	6.307	0.417	0.000	0.18		6.1	SURCHARGED	
22.003	S92	6.305	0.531	0.000	0.21		7.0	SURCHARGED	
22.004	S93	6.303	0.628	0.000	0.30		9.1	SURCHARGED	
22.005	S94	6.301	0.676	0.000	0.34		11.2	SURCHARGED	
22.006	S95	6.298	0.778	0.000	0.39		12.9	SURCHARGED	
23.000	S96	6.296	0.241	0.000	0.05	278	1.1	SURCHARGED	
23.001	S97	6.295	0.645	0.000	0.04		1.1	SURCHARGED	
24.000	S98	6.295	0.195	0.000	0.02	122	0.9	SURCHARGED	
22.007	S99	6.294	0.875	0.000	0.49		16.7	SURCHARGED	
©1982-2020 Innovyze									

RSK LDE		Page 130																											
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data																												
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by																												
XP Solutions Network 2020.1.3																													
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>																													
	<table><tr><td></td><td>US/MH</td><td>Level</td></tr><tr><td>PN</td><td>Name</td><td>Exceeded</td></tr><tr><td>22.005</td><td>S94</td><td></td></tr><tr><td>22.006</td><td>S95</td><td></td></tr><tr><td>23.000</td><td>S96</td><td></td></tr><tr><td>23.001</td><td>S97</td><td></td></tr><tr><td>24.000</td><td>S98</td><td></td></tr><tr><td>22.007</td><td>S99</td><td></td></tr><tr><td>22.008</td><td>S100</td><td></td></tr></table>		US/MH	Level	PN	Name	Exceeded	22.005	S94		22.006	S95		23.000	S96		23.001	S97		24.000	S98		22.007	S99		22.008	S100		
	US/MH	Level																											
PN	Name	Exceeded																											
22.005	S94																												
22.006	S95																												
23.000	S96																												
23.001	S97																												
24.000	S98																												
22.007	S99																												
22.008	S100																												
©1982-2020 Innovyze																													

RSK LDE						Page 131		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT				Drove Lane, Yapton Surface Water Network Calculations - FEH Data				
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...				Designed by AMuthusami Checked by				
XP Solutions				Network 2020.1.3				
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>								
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
22.009	S101	480 Winter	100	+40%	100/15 Winter			
22.010	S102	480 Winter	100	+40%	100/15 Winter			
20.009	S103	480 Winter	100	+40%	100/15 Winter			
20.010	S104	480 Winter	100	+40%	100/15 Winter			
20.011	S105	480 Winter	100	+40%	100/30 Winter			
25.000	S106	15 Winter	100	+40%				
25.001	S107	480 Winter	100	+40%	100/240 Winter			
25.002	S108	480 Winter	100	+40%	100/120 Summer			
25.003	S109	480 Winter	100	+40%	100/60 Summer			
20.012	S110	480 Winter	100	+40%	100/30 Winter			
26.000	S113	15 Winter	100	+40%	100/15 Summer	100/15 Summer		
26.001	S114	30 Winter	100	+40%	100/15 Summer	100/15 Summer		
27.000	S115a	15 Winter	100	+40%	100/15 Summer	100/15 Summer		
26.002	S115	15 Winter	100	+40%	100/15 Summer			
26.003	S116	60 Winter	100	+40%	100/15 Summer			
26.004	S117	60 Winter	100	+40%	100/15 Summer			
26.005	S118	60 Winter	100	+40%	100/15 Summer			
26.006	S119	120 Winter	100	+40%	100/15 Summer			
26.007	S120	120 Winter	100	+40%	100/15 Summer			
28.000	S121	30 Winter	100	+40%	100/15 Summer			
28.001	S122	30 Winter	100	+40%	100/15 Summer			
28.002	S123	30 Winter	100	+40%	100/15 Summer			
28.003	S124	60 Winter	100	+40%	100/15 Summer			
28.004	S125	60 Winter	100	+40%	100/15 Summer			
29.000	S126	60 Winter	100	+40%	100/15 Summer			
20.013	S127	120 Winter	100	+40%	100/15 Summer			
30.000	S128	240 Winter	100	+40%	100/15 Summer			
30.001	S129	240 Winter	100	+40%	100/60 Summer			
20.014	S130	240 Winter	100	+40%	100/15 Summer			
31.000	S131	240 Winter	100	+40%	100/60 Summer			
31.001	S132	240 Winter	100	+40%	100/60 Summer			
31.002	S133	240 Winter	100	+40%	100/60 Summer			
20.015	S134	240 Winter	100	+40%	100/15 Winter			
32.000	S135	240 Winter	100	+40%	100/60 Summer			
20.016	S136	240 Winter	100	+40%	100/30 Summer			
33.000	S137	240 Winter	100	+40%	100/60 Winter			
20.017	S138	240 Winter	100	+40%	100/30 Winter			
34.000	S139	15 Winter	100	+40%	100/15 Summer			
34.001	S140	240 Winter	100	+40%	100/15 Summer			
34.002	S141	240 Winter	100	+40%	100/15 Summer			
35.000	S142	240 Winter	100	+40%	100/120 Winter			
34.003	S143	240 Winter	100	+40%	100/60 Winter			
20.018	S144	240 Winter	100	+40%	100/30 Winter			
36.000	S145	15 Winter	100	+40%	100/15 Summer			
37.000	S146	15 Winter	100	+40%				
36.001	S147	60 Winter	100	+40%	100/30 Winter			
36.002	S148	60 Winter	100	+40%	100/15 Summer			
38.000	S149a	120 Winter	100	+40%	100/15 Summer			
©1982-2020 Innovyze								

RSK LDE							Page 132		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT				Drove Lane, Yapton Surface Water Network Calculations - FEH Data					
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...				Designed by AMuthusami Checked by					
XP Solutions				Network 2020.1.3					
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>									
		Water	Surcharged	Flooded			Half Drain	Pipe	
	US/MH	Level	Depth	Volume	Flow /	Overflow	Time	Flow	
PN	Name	(m)	(m)	(m³)	Cap.	(l/s)	(mins)	(l/s)	Status
22.009	S101	6.289	1.054	0.000	0.38		263	18.2	FLOOD RISK
22.010	S102	6.295	1.080	0.000	0.36			18.1	FLOOD RISK
20.009	S103	6.297	1.082	0.000	0.24			8.9	FLOOD RISK
20.010	S104	6.298	1.083	0.000	0.10			8.5	FLOOD RISK
20.011	S105	6.247	1.197	0.000	0.30			8.1	SURCHARGED
25.000	S106	6.277	-0.088	0.000	0.36		6	5.4	OK
25.001	S107	6.250	0.035	0.000	0.10		129	1.5	SURCHARGED
25.002	S108	6.249	0.224	0.000	0.07			2.2	SURCHARGED
25.003	S109	6.247	0.597	0.000	0.09		435	3.2	SURCHARGED
20.012	S110	6.246	1.196	0.000	0.07			4.3	SURCHARGED
26.000	S113	7.002	0.802	1.720	1.99			17.2	FLOOD
26.001	S114	6.814	0.664	10.446	2.88			12.6	FLOOD
27.000	S115a	7.011	0.751	0.860	1.17			16.1	FLOOD
26.002	S115	6.843	0.713	0.000	4.25			21.7	FLOOD RISK
26.003	S116	6.578	0.478	0.000	1.25		31	10.2	SURCHARGED
26.004	S117	6.549	0.449	0.000	2.42			10.2	SURCHARGED
26.005	S118	6.475	0.385	0.000	1.65			10.1	SURCHARGED
26.006	S119	6.440	0.350	0.000	2.73			11.6	SURCHARGED
26.007	S120	6.368	0.298	0.000	1.38			11.5	SURCHARGED
28.000	S121	6.547	0.147	0.000	0.24		14	8.0	SURCHARGED
28.001	S122	6.538	0.188	0.000	0.42			8.5	SURCHARGED
28.002	S123	6.520	0.320	0.000	1.63			14.4	SURCHARGED
28.003	S124	6.411	0.261	0.000	1.99			12.6	SURCHARGED
28.004	S125	6.360	0.210	0.000	1.12			15.1	SURCHARGED
29.000	S126	6.351	0.176	0.000	0.22		38	3.0	SURCHARGED
20.013	S127	6.341	1.401	0.000	0.25		92	10.6	SURCHARGED
30.000	S128	6.166	0.136	0.000	0.25		64	3.9	SURCHARGED
30.001	S129	6.161	0.221	0.000	0.18			3.9	SURCHARGED
20.014	S130	6.156	1.256	0.000	0.19			12.6	SURCHARGED
31.000	S131	5.970	0.510	0.000	0.04		127	1.1	SURCHARGED
31.001	S132	5.969	0.699	0.000	0.08			1.2	SURCHARGED
31.002	S133	5.969	0.819	0.000	0.16		84	4.5	SURCHARGED
20.015	S134	5.967	1.207	0.000	0.51			10.5	SURCHARGED
32.000	S135	5.958	0.258	0.000	0.04			1.7	SURCHARGED
20.016	S136	5.958	1.198	0.000	0.13			7.5	SURCHARGED
33.000	S137	5.525	0.275	0.000	0.05		107	1.6	SURCHARGED
20.017	S138	5.524	0.824	0.000	0.40			8.6	SURCHARGED
34.000	S139	5.601	0.201	0.000	1.16		4	16.9	SURCHARGED
34.001	S140	5.537	0.287	0.000	0.38		103	5.2	SURCHARGED
34.002	S141	5.527	0.407	0.000	0.37			5.2	SURCHARGED
35.000	S142	5.526	0.088	0.000	0.15			3.5	SURCHARGED
34.003	S143	5.523	0.463	0.000	0.27			7.7	SURCHARGED
20.018	S144	5.517	0.817	0.000	0.08			10.0	SURCHARGED
36.000	S145	6.077	0.657	0.000	1.55		5	26.1	SURCHARGED
37.000	S146	5.166	-0.084	0.000	0.40		5	13.6	OK
36.001	S147	5.149	0.199	0.000	0.26			29.1	SURCHARGED
36.002	S148	5.108	0.378	0.000	0.48			28.8	SURCHARGED
©1982-2020 Innovyze									

RSK LDE		Page 134																											
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data																												
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by																												
XP Solutions Network 2020.1.3																													
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>																													
	<table><thead><tr><th></th><th>US/MH</th><th>Level</th></tr><tr><th>PN</th><th>Name</th><th>Exceeded</th></tr></thead><tbody><tr><td>34.003</td><td>S143</td><td></td></tr><tr><td>20.018</td><td>S144</td><td></td></tr><tr><td>36.000</td><td>S145</td><td></td></tr><tr><td>37.000</td><td>S146</td><td></td></tr><tr><td>36.001</td><td>S147</td><td></td></tr><tr><td>36.002</td><td>S148</td><td></td></tr><tr><td>38.000</td><td>S149a</td><td></td></tr></tbody></table>		US/MH	Level	PN	Name	Exceeded	34.003	S143		20.018	S144		36.000	S145		37.000	S146		36.001	S147		36.002	S148		38.000	S149a		
	US/MH	Level																											
PN	Name	Exceeded																											
34.003	S143																												
20.018	S144																												
36.000	S145																												
37.000	S146																												
36.001	S147																												
36.002	S148																												
38.000	S149a																												
©1982-2020 Innovyze																													

RSK LDE						Page 135		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT				Drove Lane, Yapton Surface Water Network Calculations - FEH Data				
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...				Designed by AMuthusami Checked by				
XP Solutions				Network 2020.1.3				
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>								
	US/MH			Return Climate	First (X)	First (Y)	First (Z)	Overflow
PN	Name	Storm	Period	Change	Surcharge	Flood	Overflow	Act.
38.001	S149b	120 Winter	100	+40%	100/15 Summer			
36.003	S149	120 Winter	100	+40%	100/15 Summer			
36.004	S150	120 Winter	100	+40%	100/15 Summer			
39.000	S151	240 Winter	100	+40%	100/15 Summer			
20.019	S152	240 Winter	100	+40%	100/15 Summer			
40.000	S153	240 Winter	100	+40%	100/60 Winter			
41.000	S154	240 Winter	100	+40%	100/30 Winter			
20.020	S155	240 Winter	100	+40%	100/15 Summer			
20.021	S156	240 Winter	100	+40%	100/15 Winter			
20.022	S157	1440 Winter	100	+40%	100/15 Summer			
42.000	S159a	1440 Winter	100	+40%	100/120 Winter			
42.001	S159b	1440 Winter	100	+40%	100/60 Winter			
43.000	S158	1440 Winter	100	+40%	100/120 Winter			
42.002	S159	1440 Winter	100	+40%	100/15 Summer			
42.003	S160	1440 Winter	100	+40%	100/15 Summer			
20.023	S162	1440 Winter	100	+40%	100/15 Summer			
20.024	S163	1440 Winter	100	+40%	100/15 Summer			
1.022	S164	1440 Winter	100	+40%	100/15 Summer			
1.023	S165	1440 Winter	100	+40%	100/120 Summer			
1.024	S166	1440 Winter	100	+40%	100/120 Summer			
44.000	S167	1440 Winter	100	+40%				
45.000	S168	15 Winter	100	+40%				
44.001	S169	1440 Winter	100	+40%	100/15 Winter			
46.000	S170	15 Winter	100	+40%				
46.001	S171	1440 Winter	100	+40%	100/15 Summer			
44.002	S172	1440 Winter	100	+40%	100/15 Summer			
44.003	S173	1440 Winter	100	+40%	100/15 Summer			
47.000	S174	1440 Winter	100	+40%	100/15 Summer			
44.004	S175	1440 Winter	100	+40%	100/15 Summer			
1.025	S176	1440 Winter	100	+40%	100/120 Summer			
1.026	S177	1440 Winter	100	+40%	100/120 Summer			
48.000	S178	15 Winter	100	+40%				
48.001	S179	60 Winter	100	+40%				
48.002	S180	15 Winter	100	+40%	100/15 Summer			
48.003	S181	15 Winter	100	+40%				
48.004	S182	15 Winter	100	+40%				
49.000	S184a	15 Winter	100	+40%				
50.000	S183	15 Winter	100	+40%				
48.005	S184	15 Winter	100	+40%				
48.006	S185	15 Winter	100	+40%				
48.007	S186	240 Winter	100	+40%	100/120 Winter			
48.008	S187	240 Winter	100	+40%	100/30 Winter			
48.009	S188	240 Winter	100	+40%	100/60 Winter			
48.010	S189	240 Winter	100	+40%	100/60 Summer			
48.011	S190	240 Winter	100	+40%	100/120 Winter			
51.000	S191	15 Summer	100	+40%				
51.001	S192	15 Summer	100	+40%				
48.012	S193	240 Winter	100	+40%	100/60 Winter			
©1982-2020 Innovyze								

RSK LDE							Page 136		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT				Drove Lane, Yapton Surface Water Network Calculations - FEH Data					
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...				Designed by AMuthusami Checked by					
XP Solutions				Network 2020.1.3					
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>									
		Water	Surcharged	Flooded		Half Drain	Pipe		
	US/MH	Level	Depth	Volume	Flow /	Time	Flow		
PN	Name	(m)	(m)	(m³)	Cap.	(l/s)	(mins)	(l/s)	Status
38.001	S149b	5.072	0.275	0.000	0.31		51	6.6	SURCHARGED
36.003	S149	5.052	0.392	0.000	0.46			28.0	SURCHARGED
36.004	S150	5.014	0.444	0.000	0.42			30.0	SURCHARGED
39.000	S151	5.003	0.283	0.000	0.21		220	4.1	SURCHARGED
20.019	S152	4.999	0.549	0.000	0.51			29.8	SURCHARGED
40.000	S153	4.960	0.235	0.000	0.06		236	1.8	SURCHARGED
41.000	S154	4.959	0.359	0.000	0.06			1.6	SURCHARGED
20.020	S155	4.958	0.538	0.000	1.24			32.6	SURCHARGED
20.021	S156	4.942	0.522	0.000	0.30			21.3	SURCHARGED
20.022	S157	4.918	0.653	0.000	0.21			14.9	SURCHARGED
42.000	S159a	4.917	0.201	0.000	0.01			0.2	SURCHARGED
42.001	S159b	4.917	0.299	0.000	0.02			0.5	SURCHARGED
43.000	S158	4.917	0.197	0.000	0.02		979	0.5	SURCHARGED
42.002	S159	4.916	0.496	0.000	0.08			1.3	SURCHARGED
42.003	S160	4.915	0.645	0.000	0.08			1.3	SURCHARGED
20.023	S162	4.914	0.729	0.000	0.34			16.0	SURCHARGED
20.024	S163	4.910	0.741	0.000	0.30			16.0	SURCHARGED
1.022	S164	4.905	0.770	0.000	0.62			12.5	SURCHARGED
1.023	S165	4.572	0.437	0.000	0.39			12.5	SURCHARGED
1.024	S166	4.555	0.420	0.000	0.21			11.9	SURCHARGED
44.000	S167	4.386	-0.044	0.000	0.01		332	0.2	OK
45.000	S168	4.760	-0.110	0.000	0.16		5	6.8	OK
44.001	S169	4.386	0.076	0.000	0.08			1.1	SURCHARGED
46.000	S170	4.388	-0.062	0.000	0.65		5	19.7	OK
46.001	S171	4.386	0.196	0.000	0.08			1.0	SURCHARGED
44.002	S172	4.385	0.247	0.000	0.07			2.1	SURCHARGED
44.003	S173	4.385	0.305	0.000	0.08			2.6	SURCHARGED
47.000	S174	4.384	0.389	0.000	0.05			0.7	SURCHARGED
44.004	S175	4.384	0.439	0.000	0.15			3.2	SURCHARGED
1.025	S176	4.383	0.363	0.000	0.66			12.6	SURCHARGED
1.026	S177	4.300	0.300	0.000	0.65			12.7	FLOOD RISK
48.000	S178	6.153	-0.007	0.000	1.00		4	13.9	OK
48.001	S179	6.049	-0.001	0.000	0.19		37	2.7	OK
48.002	S180	6.068	0.154	0.000	0.22		33	3.1	SURCHARGED
48.003	S181	5.724	-0.085	0.000	0.38		9	5.8	OK
48.004	S182	5.564	-0.096	0.000	0.28			5.8	OK
49.000	S184a	5.867	-0.083	0.000	0.40			12.0	OK
50.000	S183	5.539	-0.064	0.000	0.62		5	8.8	OK
48.005	S184	5.389	-0.116	0.000	0.47			19.4	OK
48.006	S185	5.301	-0.084	0.000	0.69		5	29.4	OK
48.007	S186	5.241	0.056	0.000	0.26			10.3	SURCHARGED
48.008	S187	5.238	0.133	0.000	0.42			11.1	SURCHARGED
48.009	S188	5.234	0.084	0.000	0.13		206	6.1	SURCHARGED
48.010	S189	5.232	0.112	0.000	0.11			5.9	SURCHARGED
48.011	S190	5.178	0.098	0.000	0.14		161	5.6	SURCHARGED
51.000	S191	5.593	-0.047	0.000	0.81		5	11.6	OK
51.001	S192	5.456	-0.094	0.000	0.29			11.6	OK
©1982-2020 Innovyze									

RSK LDE		Page 137
18 Frogmore Road	Drove Lane, Yapton	
Hemel Hempstead	Surface Water Network	
Hertfordshire HP3 9RT	Calculations - FEH Data	
Date 24/09/2021 15:48	Designed by AMuthusami	
File 133981 - Drove Lane, Ya...	Checked by	
XP Solutions	Network 2020.1.3	

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1

PN	US/MH Name	Water	Surcharged	Flooded	Flow / Cap.	Half Drain	Pipe	Status	
		Level	Depth	Volume		Overflow	Time		Flow
		(m)	(m)	(m³)		(l/s)	(mins)	(l/s)	
48.012	S193	5.175	0.125	0.000	0.06		173	4.7	SURCHARGED

	US/MH	Level
PN	Name	Exceeded
38.001	S149b	
36.003	S149	
36.004	S150	
39.000	S151	
20.019	S152	
40.000	S153	
41.000	S154	
20.020	S155	
20.021	S156	
20.022	S157	
42.000	S159a	
42.001	S159b	
43.000	S158	
42.002	S159	
42.003	S160	
20.023	S162	
20.024	S163	
1.022	S164	
1.023	S165	
1.024	S166	
44.000	S167	
45.000	S168	
44.001	S169	
46.000	S170	
46.001	S171	
44.002	S172	
44.003	S173	
47.000	S174	
44.004	S175	
1.025	S176	
1.026	S177	
48.000	S178	
48.001	S179	
48.002	S180	
48.003	S181	
48.004	S182	
49.000	S184a	
50.000	S183	
48.005	S184	
48.006	S185	
48.007	S186	

RSK LDE		Page 138																											
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data																												
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by																												
XP Solutions Network 2020.1.3																													
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>																													
	<table><tr><td></td><td>US/MH</td><td>Level</td></tr><tr><td>PN</td><td>Name</td><td>Exceeded</td></tr><tr><td>48.008</td><td>S187</td><td></td></tr><tr><td>48.009</td><td>S188</td><td></td></tr><tr><td>48.010</td><td>S189</td><td></td></tr><tr><td>48.011</td><td>S190</td><td></td></tr><tr><td>51.000</td><td>S191</td><td></td></tr><tr><td>51.001</td><td>S192</td><td></td></tr><tr><td>48.012</td><td>S193</td><td></td></tr></table>		US/MH	Level	PN	Name	Exceeded	48.008	S187		48.009	S188		48.010	S189		48.011	S190		51.000	S191		51.001	S192		48.012	S193		
	US/MH	Level																											
PN	Name	Exceeded																											
48.008	S187																												
48.009	S188																												
48.010	S189																												
48.011	S190																												
51.000	S191																												
51.001	S192																												
48.012	S193																												
©1982-2020 Innovyze																													

RSK LDE									Page 139
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT					Drove Lane, Yapton Surface Water Network Calculations - FEH Data				
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...					Designed by AMuthusami Checked by				
XP Solutions					Network 2020.1.3				
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>									
	US/MH		Return	Climate	First (X)	First (Y)	First (Z)	Overflow	Water
PN	Name	Storm	Period	Change	Surcharge	Flood	Overflow	Act.	Level
48.013	S194	240 Winter	100	+40%	100/120 Winter				5.078
52.000	S195	15 Winter	100	+40%					5.446
53.000	S196	15 Winter	100	+40%					5.427
52.001	S197	15 Winter	100	+40%	100/15 Summer				5.389
52.002	S198	15 Winter	100	+40%	100/15 Summer				5.287
52.003	S199	15 Winter	100	+40%	100/15 Summer				5.158
52.004	S200	240 Winter	100	+40%	100/15 Summer				5.077
48.014	S201	240 Winter	100	+40%	100/60 Summer				5.075
54.000	S203	15 Summer	100	+40%					5.045
54.001	S204	360 Winter	100	+40%					4.942
54.002	S205	360 Winter	100	+40%	100/60 Summer				4.941
48.015	S206	360 Winter	100	+40%	100/60 Winter				4.941
55.000	S207	15 Winter	100	+40%	100/15 Summer				6.123
56.000	S208a	15 Winter	100	+40%					5.974
55.001	S208	15 Winter	100	+40%	100/15 Summer				5.914
55.002	S209	15 Winter	100	+40%	100/15 Summer				5.758
55.003	S210	15 Winter	100	+40%	100/15 Summer				5.689
57.000	S211	15 Winter	100	+40%					5.752
55.004	S212	15 Winter	100	+40%	100/15 Summer				5.568
58.000	S213	15 Winter	100	+40%					5.486
55.005	S214	15 Winter	100	+40%					5.243
59.000	S215	15 Winter	100	+40%					5.329
55.006	S216	15 Winter	100	+40%					5.115
60.000	S217	60 Winter	100	+40%	100/15 Summer				5.023
55.007	S218	60 Winter	100	+40%	100/15 Winter				5.010
55.008	S219	120 Winter	100	+40%	100/15 Summer				4.957
55.009	S220	360 Winter	100	+40%	100/15 Summer				4.939
55.010	S221	360 Winter	100	+40%	100/15 Summer				4.937
48.016	S222	360 Winter	100	+40%	100/15 Summer				4.936
61.000	S223	360 Winter	100	+40%	100/15 Summer				4.927
61.001	S224	360 Winter	100	+40%	100/15 Summer				4.927
48.017	S225	360 Winter	100	+40%	100/15 Summer				4.927
62.000	S226	15 Winter	100	+40%					4.949
62.001	S227	15 Winter	100	+40%	100/15 Summer				4.892
62.002	S228	15 Winter	100	+40%	100/15 Summer				4.669
62.003	S229	15 Winter	100	+40%	100/15 Summer				4.554
48.018	S230	240 Winter	100	+40%	100/120 Summer				4.458
48.019	S231	240 Winter	100	+40%	100/60 Winter				4.453
48.020	S232	240 Winter	100	+40%	100/60 Summer				4.443
48.021	S233	240 Winter	100	+40%	100/30 Summer				4.436
63.000	S234	15 Winter	100	+40%	100/15 Summer				5.070
63.001	S235	15 Winter	100	+40%	100/15 Summer				4.915
64.000	S236	15 Winter	100	+40%					5.126
63.002	S237	15 Winter	100	+40%	100/15 Summer				4.843
65.000	S238	15 Winter	100	+40%					5.346
65.001	S239	15 Winter	100	+40%					4.681
63.003	S240	15 Winter	100	+40%	100/15 Summer				4.613
63.004	S241	15 Winter	100	+40%	100/15 Summer				4.519
©1982-2020 Innovyze									

RSK LDE							Page 140		
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT				Drove Lane, Yapton Surface Water Network Calculations - FEH Data					
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...				Designed by AMuthusami Checked by					
XP Solutions				Network 2020.1.3					
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>									
PN	US/MH Name	Depth (m)	Surcharged Volume (m³)	Flooded Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
48.013	S194	0.148	0.000	0.05		184	4.0	SURCHARGED	
52.000	S195	-0.104	0.000	0.20		5	5.4	OK	
53.000	S196	-0.123	0.000	0.08		6	2.7	OK	
52.001	S197	0.229	0.000	0.74			13.6	SURCHARGED	
52.002	S198	0.317	0.000	0.99			18.5	SURCHARGED	
52.003	S199	0.358	0.000	2.15			29.2	SURCHARGED	
52.004	S200	0.337	0.000	0.43			8.2	SURCHARGED	
48.014	S201	0.275	0.000	0.11			5.1	SURCHARGED	
54.000	S203	-0.055	0.000	0.72		5	12.2	OK	
54.001	S204	-0.008	0.000	0.06			1.6	OK	
54.002	S205	0.291	0.000	0.11			1.5	SURCHARGED	
48.015	S206	0.191	0.000	0.04		261	5.3	SURCHARGED	
55.000	S207	0.323	0.000	1.52			22.3	SURCHARGED	
56.000	S208a	-0.051	0.000	0.77		5	14.9	OK	
55.001	S208	0.204	0.000	1.81			21.8	SURCHARGED	
55.002	S209	0.098	0.000	0.89			26.5	SURCHARGED	
55.003	S210	0.064	0.000	0.98			34.2	SURCHARGED	
57.000	S211	-0.103	0.000	0.21		5	7.5	OK	
55.004	S212	0.063	0.000	1.23			44.2	SURCHARGED	
58.000	S213	-0.264	0.000	0.04		5	5.4	OK	
55.005	S214	-0.127	0.000	0.62			52.2	OK	
59.000	S215	-0.051	0.000	0.77		5	17.0	OK	
55.006	S216	-0.135	0.000	0.58			66.0	OK	
60.000	S217	0.173	0.000	0.54		12	6.8	SURCHARGED	
55.007	S218	0.200	0.000	0.42		13	42.2	SURCHARGED	
55.008	S219	0.397	0.000	0.50			30.9	SURCHARGED	
55.009	S220	0.439	0.000	0.24			19.2	SURCHARGED	
55.010	S221	0.537	0.000	0.40			19.1	SURCHARGED	
48.016	S222	0.556	0.000	0.63			12.8	SURCHARGED	
61.000	S223	0.487	0.000	0.02			1.1	SURCHARGED	
61.001	S224	0.527	0.000	0.02			1.0	SURCHARGED	
48.017	S225	0.547	0.000	0.39			8.6	SURCHARGED	
62.000	S226	-0.001	0.000	0.51		5	10.9	OK	
62.001	S227	0.197	0.000	1.23		4	19.9	SURCHARGED	
62.002	S228	0.124	0.000	1.60			19.9	SURCHARGED	
62.003	S229	0.054	0.000	1.59			19.9	SURCHARGED	
48.018	S230	0.098	0.000	0.23			10.5	SURCHARGED	
48.019	S231	0.113	0.000	0.17			10.5	SURCHARGED	
48.020	S232	0.193	0.000	0.18			10.8	SURCHARGED	
48.021	S233	0.236	0.000	0.11			11.0	SURCHARGED	
63.000	S234	0.060	0.000	0.99			16.1	SURCHARGED	
63.001	S235	0.095	0.000	0.97		3	15.2	SURCHARGED	
64.000	S236	-0.094	0.000	0.30		5	12.9	OK	
63.002	S237	0.113	0.000	1.09			21.1	SURCHARGED	
65.000	S238	-0.119	0.000	0.10		5	4.8	OK	
65.001	S239	-0.069	0.000	0.56			14.9	OK	
63.003	S240	0.163	0.000	0.78			55.2	SURCHARGED	
©1982-2020 Innovyze									

RSK LDE					Page 141				
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT				Drove Lane, Yapton Surface Water Network Calculations - FEH Data					
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...				Designed by AMuthusami Checked by					
XP Solutions				Network 2020.1.3					
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1</u>									



RSK LDE		Page 142
18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT	Drove Lane, Yapton Surface Water Network Calculations - FEH Data	
Date 24/09/2021 15:48 File 133981 - Drove Lane, Ya...	Designed by AMuthusami Checked by	
XP Solutions	Network 2020.1.3	

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.
66.000	S242	240 Winter	100	+40%	100/120 Winter			
63.005	S243	240 Winter	100	+40%	100/15 Summer			
63.006	S244	240 Winter	100	+40%	100/15 Summer			
63.007	S245	240 Winter	100	+40%	100/15 Summer			
48.022	S246	240 Winter	100	+40%	100/15 Summer			
67.000	S247	15 Winter	100	+40%	100/15 Summer			
67.001	S248	15 Winter	100	+40%				
48.023	S249	1440 Winter	100	+40%	100/120 Winter			
1.027	S250	1440 Winter	100	+40%	100/120 Summer			
1.028	S251	1440 Winter	100	+40%	100/120 Summer			

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
66.000	S242	4.437	0.047	0.000	0.04	115	1.3	SURCHARGED
63.005	S243	4.436	0.316	0.000	0.33		19.0	SURCHARGED
63.006	S244	4.433	0.363	0.000	0.48		21.8	SURCHARGED
63.007	S245	4.430	0.380	0.000	0.44		21.7	SURCHARGED
48.022	S246	4.429	0.379	0.000	0.58		15.0	SURCHARGED
67.000	S247	4.491	0.011	0.000	1.09	4	14.8	SURCHARGED
67.001	S248	4.334	-0.066	0.000	0.60	7	12.6	OK
48.023	S249	4.293	0.243	0.000	0.17		10.2	FLOOD RISK
1.027	S250	4.288	0.288	0.000	0.29		18.0	FLOOD RISK
1.028	S251	4.277	0.327	0.000	0.29		18.0	FLOOD RISK

PN	US/MH Name	Level Exceeded
66.000	S242	
63.005	S243	
63.006	S244	
63.007	S245	
48.022	S246	
67.000	S247	
67.001	S248	
48.023	S249	
1.027	S250	
1.028	S251	