

JPP Consulting Ltd		Page 2
Cedar Barn White Lodge Walgrave Northampton NN6 9PY	26417 - Station Road, Market Bosworth - Surface Water Network Details	
Date 11/10/2024 15:27 File 26417 - DRAINAGE MODEL ...	Designed by CDG Checked by TL	

XP Solutions

Network 2016.1

Network Design Table for Storm

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
S1.001	44.367	0.270	164.3	0.078	0.00	0.0	0.600	o	300	Pipe/Conduit	
S1.002	46.754	0.195	239.8	0.077	0.00	0.0	0.600	o	300	Pipe/Conduit	
S2.000	12.309	0.250	49.2	0.077	5.00	0.0	0.600	o	225	Pipe/Conduit	
S2.001	44.079	1.050	42.0	0.077	0.00	0.0	0.600	o	300	Pipe/Conduit	
S2.002	22.925	1.040	22.0	0.077	0.00	0.0	0.600	o	300	Pipe/Conduit	
S2.003	7.154	0.030	238.5	0.077	0.00	0.0	0.600	o	300	Pipe/Conduit	
S2.004	14.726	0.060	245.4	0.077	0.00	0.0	0.600	o	300	Pipe/Conduit	
S2.005	21.197	0.525	40.4	0.077	0.00	0.0	0.600	o	300	Pipe/Conduit	
S2.006	57.880	1.380	41.9	0.077	0.00	0.0	0.600	o	450	Pipe/Conduit	
S1.003	25.646	0.085	301.7	0.077	0.00	0.0	0.600	o	450	Pipe/Conduit	
S1.004	17.805	0.330	54.0	0.077	0.00	0.0	0.600	o	450	Pipe/Conduit	
S3.000	25.241	0.725	34.8	0.077	5.00	0.0	0.600	o	225	Pipe/Conduit	
S3.001	62.461	2.450	25.5	0.077	0.00	0.0	0.600	o	225	Pipe/Conduit	
S3.002	12.355	0.075	164.7	0.077	0.00	0.0	0.600	o	225	Pipe/Conduit	
S3.003	50.048	1.200	41.7	0.077	0.00	0.0	0.600	o	300	Pipe/Conduit	
S3.004	13.892	0.200	69.5	0.077	0.00	0.0	0.600	o	450	Pipe/Conduit	
S3.005	14.927	0.050	298.5	0.077	0.00	0.0	0.600	o	450	Pipe/Conduit	
S1.005	18.176	0.200	90.9	0.077	0.00	0.0	0.600	o	600	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
S1.001	42.84	6.81	98.310	0.156	0.0	0.0	0.0	1.22	86.5	18.1
S1.002	40.01	7.58	98.040	0.233	0.0	0.0	0.0	1.01	71.5	25.2
S2.000	51.45	5.11	102.175	0.077	0.0	0.0	0.0	1.87	74.3	10.7
S2.001	49.60	5.41	101.850	0.154	0.0	0.0	0.0	2.43	172.0	20.7
S2.002	48.94	5.53	100.800	0.231	0.0	0.0	0.0	3.36	237.7	30.6
S2.003	48.29	5.64	99.760	0.308	0.0	0.0	0.0	1.01	71.7	40.3
S2.004	46.99	5.89	99.730	0.385	0.0	0.0	0.0	1.00	70.6	49.0
S2.005	46.28	6.03	99.670	0.462	0.0	0.0	0.0	2.48	175.4	57.9
S2.006	44.84	6.34	98.995	0.539	0.0	0.0	0.0	3.15	500.4	65.5
S1.003	38.82	7.95	97.615	0.849	0.0	0.0	0.0	1.17	185.3	89.3
S1.004	38.49	8.05	97.530	0.926	0.0	0.0	0.0	2.77	441.0	96.5
S3.000	50.94	5.19	102.125	0.077	0.0	0.0	0.0	2.22	88.5	10.6
S3.001	48.58	5.59	101.400	0.154	0.0	0.0	0.0	2.60	103.5	20.3
S3.002	47.49	5.79	98.950	0.231	0.0	0.0	0.0	1.02	40.4	29.7
S3.003	45.79	6.13	98.800	0.308	0.0	0.0	0.0	2.44	172.6	38.2
S3.004	45.34	6.23	97.450	0.385	0.0	0.0	0.0	2.44	388.4	47.3
S3.005	44.38	6.44	97.250	0.462	0.0	0.0	0.0	1.17	186.3	55.5
S1.005	38.13	8.17	97.050	1.465	0.0	0.0	0.0	2.56	722.5	151.3

JPP Consulting Ltd		Page 3
Cedar Barn White Lodge Walgrave Northampton NN6 9PY	26417 - Station Road, Market Bosworth - Surface Water Network Details	
Date 11/10/2024 15:27 File 26417 - DRAINAGE MODEL ...	Designed by CDG Checked by TL	

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Network Design Table for Storm

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
S1.006	8.407	0.150	56.0	0.077	0.00	0.0	0.600	o	600	Pipe/Conduit	
S1.007	38.985	1.865	20.9	0.077	0.00	0.0	0.600	o	600	Pipe/Conduit	
S1.008	13.502	0.045	300.0	0.077	0.00	0.0	0.600	o	600	Pipe/Conduit	
S4.000	17.376	0.400	43.4	0.077	5.00	0.0	0.600	o	225	Pipe/Conduit	
S4.001	86.134	0.900	95.7	0.077	0.00	0.0	0.600	o	225	Pipe/Conduit	
S4.002	22.532	1.410	16.0	0.077	0.00	0.0	0.600	o	225	Pipe/Conduit	
S1.009	75.437	0.255	295.8	0.077	0.00	0.0	0.600	o	750	Pipe/Conduit	
S1.010	19.456	0.065	299.3	0.077	0.00	0.0	0.600	o	750	Pipe/Conduit	
S5.000	39.463	0.550	71.8	0.077	5.00	0.0	0.600	o	225	Pipe/Conduit	
S5.001	9.378	0.200	46.9	0.077	0.00	0.0	0.600	o	300	Pipe/Conduit	
S5.002	34.454	0.750	45.9	0.077	0.00	0.0	0.600	o	300	Pipe/Conduit	
S5.003	31.197	0.300	104.0	0.077	0.00	0.0	0.600	o	450	Pipe/Conduit	
S5.004	68.064	0.830	82.0	0.077	0.00	0.0	0.600	o	450	Pipe/Conduit	
S1.011	7.893	0.020	394.7	0.077	0.00	0.0	0.600	o	750	Pipe/Conduit	
S1.012	50.667	0.150	337.8	0.000	0.00	0.0	0.600	o	750	Pipe/Conduit	
S6.000	6.240	0.275	22.7	0.000	5.00	5.0	0.600	o	225	Pipe/Conduit	
S6.001	34.896	0.150	232.6	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
S1.006	38.00	8.21	96.850	1.542	0.0	0.0	0.0	3.26	921.0	158.7
S1.007	37.65	8.34	96.700	1.619	0.0	0.0	0.0	5.34	1510.5	165.1
S1.008	37.19	8.50	94.835	1.696	0.0	0.0	0.0	1.40	396.0	170.8
S4.000	51.22	5.15	97.875	0.077	0.0	0.0	0.0	1.99	79.1	10.7
S4.001	46.15	6.06	97.475	0.154	0.0	0.0	0.0	1.41	56.1	19.2
S4.002	45.60	6.17	96.575	0.231	0.0	0.0	0.0	3.29	130.8	28.5
S1.009	35.18	9.27	94.640	2.004	0.0	0.0	0.0	1.62	716.5	190.9
S1.010	34.70	9.47	94.385	2.081	0.0	0.0	0.0	1.61	712.3	195.6
S5.000	49.51	5.43	97.475	0.077	0.0	0.0	0.0	1.55	61.5	10.3
S5.001	49.12	5.49	96.850	0.154	0.0	0.0	0.0	2.30	162.7	20.5
S5.002	47.76	5.74	96.650	0.231	0.0	0.0	0.0	2.33	164.4	29.9
S5.003	46.43	6.00	95.750	0.308	0.0	0.0	0.0	1.99	317.1	38.7
S5.004	44.10	6.51	95.450	0.385	0.0	0.0	0.0	2.25	357.3	46.0
S1.011	34.48	9.57	94.320	2.543	0.0	0.0	0.0	1.40	619.6	237.5
S1.012	33.26	10.12	94.300	2.543	0.0	0.0	0.0	1.52	670.2	237.5
S6.000	51.91	5.04	94.575	0.000	5.0	0.0	0.0	2.76	109.7	5.0
S6.001	47.87	5.72	94.300	0.000	5.0	0.0	0.0	0.85	33.9	5.0

JPP Consulting Ltd		Page 4
Cedar Barn White Lodge Walgrave Northampton NN6 9PY	26417 - Station Road, Market Bosworth - Surface Water Network Details	
Date 11/10/2024 15:27	Designed by CDG	
File 26417 - DRAINAGE MODEL ...	Checked by TL	
XP Solutions		Network 2016.1

Network Design Table for Storm

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
S1.013	7.127	0.025	285.1	0.000	0.00	0.0	0.600	o	750	Pipe/Conduit	
S1.014	7.934	0.215	36.9	0.000	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 (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
S1.013	33.11	10.20	94.150	2.543	5.0	0.0	0.0	1.65	730.0	237.5
S1.014	51.76	5.06	94.125	0.000	21.2	0.0	0.0	2.16	85.9	21.2

JPP Consulting Ltd		Page 5
Cedar Barn White Lodge Walgrave Northampton NN6 9PY	26417 - Station Road, Market Bosworth - Surface Water Network Details	
Date 11/10/2024 15:27 File 26417 - DRAINAGE MODEL ...	Designed by CDG Checked by TL	

XP Solutions Network 2016.1

Manhole Schedules for Storm

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)
SA1	100.250	1.425	Open Manhole	1500	S1.000	98.825	225				
SA2	100.650	2.340	Open Manhole	1500	S1.001	98.310	300	S1.000	98.385	225	
SA3	99.950	1.910	Open Manhole	1800	S1.002	98.040	300	S1.001	98.040	300	
SA4	103.600	1.425	Open Manhole	1200	S2.000	102.175	225				
SA5	103.350	1.500	Open Manhole	1200	S2.001	101.850	300	S2.000	101.925	225	
SA6	102.300	1.500	Open Manhole	1200	S2.002	100.800	300	S2.001	100.800	300	
SA7	101.750	1.990	Open Manhole	1500	S2.003	99.760	300	S2.002	99.760	300	
SA8	101.600	1.870	Open Manhole	1500	S2.004	99.730	300	S2.003	99.730	300	
SA9	101.250	1.580	Open Manhole	1500	S2.005	99.670	300	S2.004	99.670	300	
SA10	100.725	1.730	Open Manhole	1500	S2.006	98.995	450	S2.005	99.145	300	
SA11	99.400	1.785	Open Manhole	1800	S1.003	97.615	450	S1.002	97.845	300	80
								S2.006	97.615	450	
SA12	99.200	1.670	Open Manhole	1800	S1.004	97.530	450	S1.003	97.530	450	
SA13	103.550	1.425	Open Manhole	1200	S3.000	102.125	225				
SA14	102.825	1.425	Open Manhole	1200	S3.001	101.400	225	S3.000	101.400	225	
SA15	100.750	1.800	Open Manhole	1200	S3.002	98.950	225	S3.001	98.950	225	
SA16	100.500	1.700	Open Manhole	1500	S3.003	98.800	300	S3.002	98.875	225	
SA17	99.100	1.650	Open Manhole	1500	S3.004	97.450	450	S3.003	97.600	300	
SA18	98.900	1.650	Open Manhole	1500	S3.005	97.250	450	S3.004	97.250	450	
SA19	99.000	1.950	Open Manhole	1800	S1.005	97.050	600	S1.004	97.200	450	
								S3.005	97.200	450	
SA20	98.650	1.800	Open Manhole	1800	S1.006	96.850	600	S1.005	96.850	600	
SA21	98.500	1.800	Open Manhole	1800	S1.007	96.700	600	S1.006	96.700	600	
SA22	97.700	2.865	Open Manhole	1800	S1.008	94.835	600	S1.007	94.835	600	
SA23	99.300	1.425	Open Manhole	1200	S4.000	97.875	225				
SA24	98.900	1.425	Open Manhole	1200	S4.001	97.475	225	S4.000	97.475	225	
SA25	98.000	1.425	Open Manhole	1200	S4.002	96.575	225	S4.001	96.575	225	
SA26	97.450	2.810	Open Manhole	1800	S1.009	94.640	750	S1.008	94.790	600	
								S4.002	95.165	225	
SA27	96.050	1.665	Open Manhole	1800	S1.010	94.385	750	S1.009	94.385	750	
SA28	98.900	1.425	Open Manhole	1200	S5.000	97.475	225				
SA29	98.350	1.500	Open Manhole	1200	S5.001	96.850	300	S5.000	96.925	225	
SA30	98.150	1.500	Open Manhole	1200	S5.002	96.650	300	S5.001	96.650	300	
SA31	97.400	1.650	Open Manhole	1500	S5.003	95.750	450	S5.002	95.900	300	
SA32	97.100	1.650	Open Manhole	1500	S5.004	95.450	450	S5.003	95.450	450	
SA33	96.000	1.680	Open Manhole	1800	S1.011	94.320	750	S1.010	94.320	750	
								S5.004	94.620	450	

JPP Consulting Ltd		Page 6
Cedar Barn White Lodge Walgrave Northampton NN6 9PY	26417 - Station Road, Market Bosworth - Surface Water Network Details	
Date 11/10/2024 15:27	Designed by CDG	
File 26417 - DRAINAGE MODEL ...	Checked by TL	
XP Solutions		Network 2016.1

Manhole Schedules for Storm

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)
SHW1	95.950	1.650	Open Manhole	1800	S1.012	94.300	750	S1.011	94.300	750	
SA34	96.000	1.425	Open Manhole	1200	S6.000	94.575	225				
SHW2	95.950	1.650	Open Manhole	1200	S6.001	94.300	225	S6.000	94.300	225	
SHW3	95.150	1.000	Open Manhole	1800	S1.013	94.150	750	S1.012	94.150	750	
								S6.001	94.150	225	
SA35	95.550	1.425	Open Manhole	1800	S1.014	94.125	225	S1.013	94.125	750	
SHW4	94.500	0.590	Open Manhole	1200		OUTFALL		S1.014	93.910	225	

JPP Consulting Ltd		Page 7
Cedar Barn White Lodge Walgrave Northampton NN6 9PY	26417 - Station Road, Market Bosworth - Surface Water Network Details	
Date 11/10/2024 15:27	Designed by CDG	
File 26417 - DRAINAGE MODEL ...	Checked by TL	
XP Solutions		Network 2016.1

PIPELINE SCHEDULES for Storm

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)
S1.000	o	225	SA1	100.250	98.825	1.200	Open Manhole	1500
S1.001	o	300	SA2	100.650	98.310	2.040	Open Manhole	1500
S1.002	o	300	SA3	99.950	98.040	1.610	Open Manhole	1800
S2.000	o	225	SA4	103.600	102.175	1.200	Open Manhole	1200
S2.001	o	300	SA5	103.350	101.850	1.200	Open Manhole	1200
S2.002	o	300	SA6	102.300	100.800	1.200	Open Manhole	1200
S2.003	o	300	SA7	101.750	99.760	1.690	Open Manhole	1500
S2.004	o	300	SA8	101.600	99.730	1.570	Open Manhole	1500
S2.005	o	300	SA9	101.250	99.670	1.280	Open Manhole	1500
S2.006	o	450	SA10	100.725	98.995	1.280	Open Manhole	1500
S1.003	o	450	SA11	99.400	97.615	1.335	Open Manhole	1800
S1.004	o	450	SA12	99.200	97.530	1.220	Open Manhole	1800
S3.000	o	225	SA13	103.550	102.125	1.200	Open Manhole	1200
S3.001	o	225	SA14	102.825	101.400	1.200	Open Manhole	1200
S3.002	o	225	SA15	100.750	98.950	1.575	Open Manhole	1200
S3.003	o	300	SA16	100.500	98.800	1.400	Open Manhole	1500
S3.004	o	450	SA17	99.100	97.450	1.200	Open Manhole	1500

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)
S1.000	73.073	166.1	SA2	100.650	98.385	2.040	Open Manhole	1500
S1.001	44.367	164.3	SA3	99.950	98.040	1.610	Open Manhole	1800
S1.002	46.754	239.8	SA11	99.400	97.845	1.255	Open Manhole	1800
S2.000	12.309	49.2	SA5	103.350	101.925	1.200	Open Manhole	1200
S2.001	44.079	42.0	SA6	102.300	100.800	1.200	Open Manhole	1200
S2.002	22.925	22.0	SA7	101.750	99.760	1.690	Open Manhole	1500
S2.003	7.154	238.5	SA8	101.600	99.730	1.570	Open Manhole	1500
S2.004	14.726	245.4	SA9	101.250	99.670	1.280	Open Manhole	1500
S2.005	21.197	40.4	SA10	100.725	99.145	1.280	Open Manhole	1500
S2.006	57.880	41.9	SA11	99.400	97.615	1.335	Open Manhole	1800
S1.003	25.646	301.7	SA12	99.200	97.530	1.220	Open Manhole	1800
S1.004	17.805	54.0	SA19	99.000	97.200	1.350	Open Manhole	1800
S3.000	25.241	34.8	SA14	102.825	101.400	1.200	Open Manhole	1200
S3.001	62.461	25.5	SA15	100.750	98.950	1.575	Open Manhole	1200
S3.002	12.355	164.7	SA16	100.500	98.875	1.400	Open Manhole	1500
S3.003	50.048	41.7	SA17	99.100	97.600	1.200	Open Manhole	1500
S3.004	13.892	69.5	SA18	98.900	97.250	1.200	Open Manhole	1500

JPP Consulting Ltd		Page 8
Cedar Barn White Lodge Walgrave Northampton NN6 9PY	26417 - Station Road, Market Bosworth - Surface Water Network Details	
Date 11/10/2024 15:27	Designed by CDG	
File 26417 - DRAINAGE MODEL ...	Checked by TL	
XP Solutions		Network 2016.1

PIPELINE SCHEDULES for Storm

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)
S3.005	o	450	SA18	98.900	97.250	1.200	Open Manhole	1500
S1.005	o	600	SA19	99.000	97.050	1.350	Open Manhole	1800
S1.006	o	600	SA20	98.650	96.850	1.200	Open Manhole	1800
S1.007	o	600	SA21	98.500	96.700	1.200	Open Manhole	1800
S1.008	o	600	SA22	97.700	94.835	2.265	Open Manhole	1800
S4.000	o	225	SA23	99.300	97.875	1.200	Open Manhole	1200
S4.001	o	225	SA24	98.900	97.475	1.200	Open Manhole	1200
S4.002	o	225	SA25	98.000	96.575	1.200	Open Manhole	1200
S1.009	o	750	SA26	97.450	94.640	2.060	Open Manhole	1800
S1.010	o	750	SA27	96.050	94.385	0.915	Open Manhole	1800
S5.000	o	225	SA28	98.900	97.475	1.200	Open Manhole	1200
S5.001	o	300	SA29	98.350	96.850	1.200	Open Manhole	1200
S5.002	o	300	SA30	98.150	96.650	1.200	Open Manhole	1200
S5.003	o	450	SA31	97.400	95.750	1.200	Open Manhole	1500
S5.004	o	450	SA32	97.100	95.450	1.200	Open Manhole	1500

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)
S3.005	14.927	298.5	SA19	99.000	97.200	1.350	Open Manhole	1800
S1.005	18.176	90.9	SA20	98.650	96.850	1.200	Open Manhole	1800
S1.006	8.407	56.0	SA21	98.500	96.700	1.200	Open Manhole	1800
S1.007	38.985	20.9	SA22	97.700	94.835	2.265	Open Manhole	1800
S1.008	13.502	300.0	SA26	97.450	94.790	2.060	Open Manhole	1800
S4.000	17.376	43.4	SA24	98.900	97.475	1.200	Open Manhole	1200
S4.001	86.134	95.7	SA25	98.000	96.575	1.200	Open Manhole	1200
S4.002	22.532	16.0	SA26	97.450	95.165	2.060	Open Manhole	1800
S1.009	75.437	295.8	SA27	96.050	94.385	0.915	Open Manhole	1800
S1.010	19.456	299.3	SA33	96.000	94.320	0.930	Open Manhole	1800
S5.000	39.463	71.8	SA29	98.350	96.925	1.200	Open Manhole	1200
S5.001	9.378	46.9	SA30	98.150	96.650	1.200	Open Manhole	1200
S5.002	34.454	45.9	SA31	97.400	95.900	1.200	Open Manhole	1500
S5.003	31.197	104.0	SA32	97.100	95.450	1.200	Open Manhole	1500
S5.004	68.064	82.0	SA33	96.000	94.620	0.930	Open Manhole	1800

JPP Consulting Ltd		Page 9
Cedar Barn White Lodge Walgrave Northampton NN6 9PY	26417 - Station Road, Market Bosworth - Surface Water Network Details	
Date 11/10/2024 15:27	Designed by CDG	
File 26417 - DRAINAGE MODEL ...	Checked by TL	
XP Solutions		Network 2016.1

PIPELINE SCHEDULES for Storm

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)
S1.011	o	750	SA33	96.000	94.320	0.930	Open Manhole	1800
S1.012	o	750	SHW1	95.950	94.300	0.900	Open Manhole	1800
S6.000	o	225	SA34	96.000	94.575	1.200	Open Manhole	1200
S6.001	o	225	SHW2	95.950	94.300	1.425	Open Manhole	1200
S1.013	o	750	SHW3	95.150	94.150	0.250	Open Manhole	1800
S1.014	o	225	SA35	95.550	94.125	1.200	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)
S1.011	7.893	394.7	SHW1	95.950	94.300	0.900	Open Manhole	1800
S1.012	50.667	337.8	SHW3	95.150	94.150	0.250	Open Manhole	1800
S6.000	6.240	22.7	SHW2	95.950	94.300	1.425	Open Manhole	1200
S6.001	34.896	232.6	SHW3	95.150	94.150	0.775	Open Manhole	1800
S1.013	7.127	285.1	SA35	95.550	94.125	0.675	Open Manhole	1800
S1.014	7.934	36.9	SHW4	94.500	93.910	0.365	Open Manhole	1200

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
S1.014	SHW4	94.500	93.910	0.000	1200	0