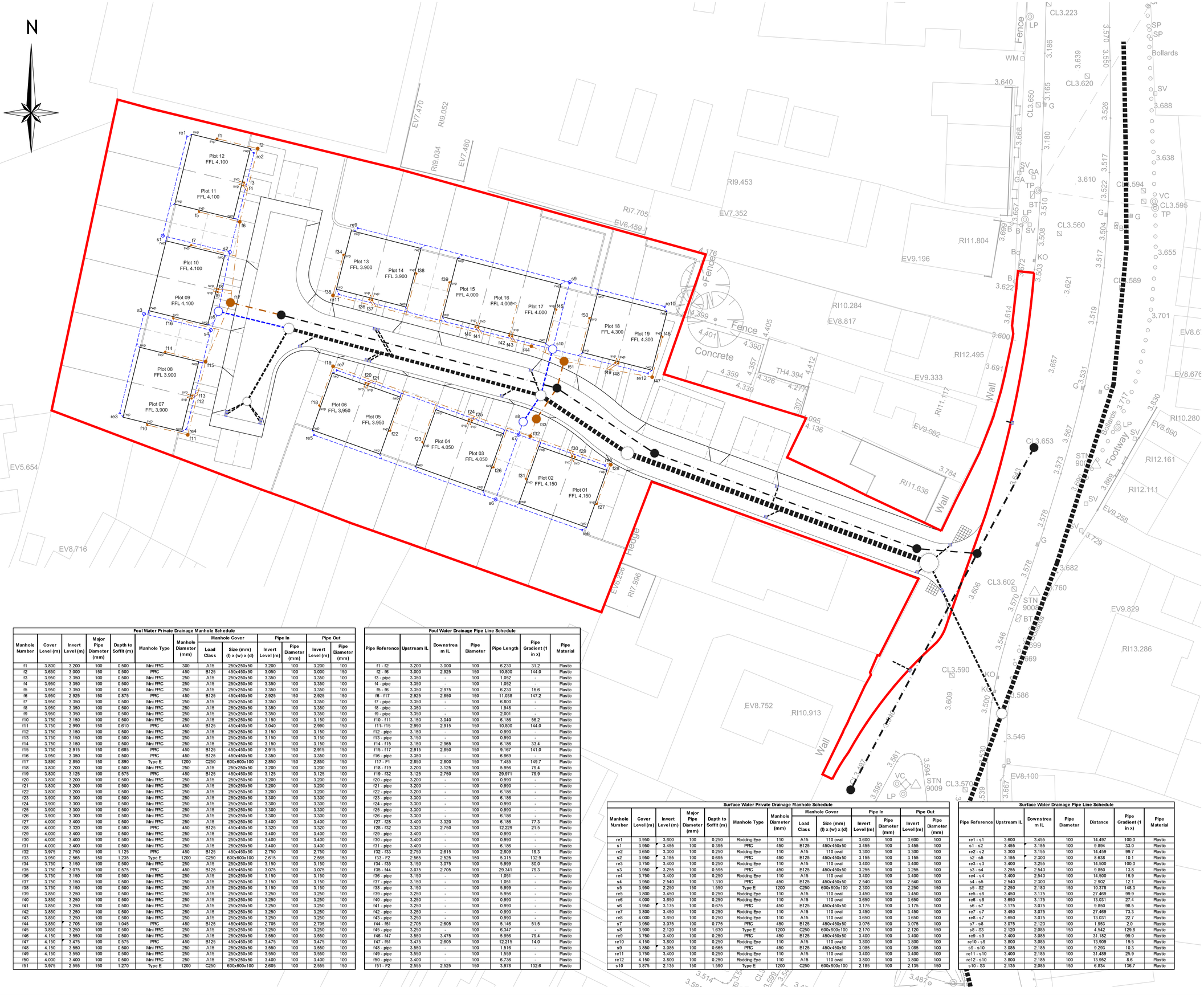


Foul Water Private Drainage Manhole Schedule

Manhole Number	Cover Level (m)	Invert Level (m)	Major Pipe Diameter (mm)	Depth to Soffit (m)	Manhole Type	Manhole Diameter (mm)	Manhole Cover		Pipe In		Pipe Out	
							Load Class	Size (mm) (l) x (w) x (d)	Invert Level (m)	Pipe Diameter (mm)	Invert Level (m)	Pipe Diameter (mm)
f1	3.800	3.200	100	0.500	Mini PRC	300	A15	250x250x50	3.200	100	3.200	100
f2	3.650	3.000	150	0.500	PRC	450	B125	450x450x50	3.050	100	3.000	150
f3	3.950	3.350	100	0.500	Mini PRC	250	A15	250x250x50	3.350	100	3.350	100
f4	3.950	3.350	100	0.500	Mini PRC	250	A15	250x250x50	3.350	100	3.350	100
f5	3.950	3.350	100	0.500	Mini PRC	250	A15	250x250x50	3.350	100	3.350	100
f6	3.950	2.925	150	0.875	PRC	450	B125	450x450x50	2.925	150	2.925	150
f7	3.950	3.350	100	0.500	Mini PRC	250	A15	250x250x50	3.350	100	3.350	100
f8	3.950	3.350	100	0.500	Mini PRC	250	A15	250x250x50	3.350	100	3.350	100
f9	3.950	3.350	100	0.500	Mini PRC	250	A15	250x250x50	3.350	100	3.350	100
f10	3.750	3.150	100	0.500	Mini PRC	250	A15	250x250x50	3.150	100	3.150	100
f11	3.750	2.990	150	0.610	PRC	450	B125	450x450x50	3.040	100	2.990	150
f12	3.750	3.150	100	0.500	Mini PRC	250	A15	250x250x50	3.150	100	3.150	100
f13	3.750	3.150	100	0.500	Mini PRC	250	A15	250x250x50	3.150	100	3.150	100
f14	3.750	3.150	100	0.500	Mini PRC	250	A15	250x250x50	3.150	100	3.150	100
f15	3.750	2.915	150	0.685	PRC	450	B125	450x450x50	2.915	150	2.915	150
f16	3.950	3.350	100	0.500	PRC	450	B125	450x450x50	3.350	100	3.350	100
f17	3.890	2.850	150	0.890	Type E	1200	C250	600x600x100	2.850	150	2.850	150
f18	3.800	3.200	100	0.500	Mini PRC	250	A15	250x250x50	3.200	100	3.200	100
f19	3.800	3.125	100	0.575	PRC	450	B125	450x450x50	3.125	100	3.125	100
f20	3.800	3.200	100	0.500	Mini PRC	250	A15	250x250x50	3.200	100	3.200	100
f21	3.800	3.200	100	0.500	Mini PRC	250	A15	250x250x50	3.200	100	3.200	100
f22	3.800	3.200	100	0.500	Mini PRC	250	A15	250x250x50	3.200	100	3.200	100
f23	3.900	3.300	100	0.500	Mini PRC	250	A15	250x250x50	3.300	100	3.300	100
f24	3.900	3.300	100	0.500	Mini PRC	250	A15	250x250x50	3.300	100	3.300	100
f25	3.900	3.300	100	0.500	Mini PRC	250	A15	250x250x50	3.300	100	3.300	100
f26	3.900	3.300	100	0.500	Mini PRC	250	A15	250x250x50	3.300	100	3.300	100
f27	4.000	3.400	100	0.500	Mini PRC	250	A15	250x250x50	3.400	100	3.400	100
f28	4.000	3.320	100	0.580	PRC	450	B125	450x450x50	3.320	100	3.320	100
f29	4.000	3.400	100	0.500	Mini PRC	250	A15	250x250x50	3.400	100	3.400	100
f30	4.000	3.400	100	0.500	Mini PRC	250	A15	250x250x50	3.400	100	3.400	100
f31	4.000	3.400	100	0.500	Mini PRC	250	A15	250x250x50	3.400	100	3.400	100
f32	3.975	2.750	100	1.125	PRC	450	B125	450x450x50	2.750	100	2.750	100
f33	3.950	2.565	150	1.235	Type E	1200	C250	600x600x100	2.615	100	2.565	150
f34	3.750	3.150	100	0.500	Mini PRC	250	A15	250x250x50	3.150	100	3.150	100
f35	3.750	3.075	100	0.575	PRC	450	B125	450x450x50	3.075	100	3.075	100
f36	3.750	3.150	100	0.500	Mini PRC	250	A15	250x250x50	3.150	100	3.150	100
f37	3.750	3.150	100	0.500	Mini PRC	250	A15	250x250x50	3.150	100	3.150	100
f38	3.750	3.150	100	0.500	Mini PRC	250	A15	250x250x50	3.150	100	3.150	100
f39	3.850	3.250	100	0.500	Mini PRC	250	A15	250x250x50	3.250	100	3.250	100
f40	3.850	3.250	100	0.500	Mini PRC	250	A15	250x250x50	3.250	100	3.250	100
f41	3.850	3.250	100	0.500	Mini PRC	250	A15	250x250x50	3.250	100	3.250	100
f42	3.850	3.250	100	0.500	Mini PRC	250	A15	250x250x50	3.250	100	3.250	100
f43	3.850	3.250	100	0.500	Mini PRC	250	A15	250x250x50	3.250	100	3.250	100
f44	3.850	2.705	100	1.045	PRC	450	B125	450x450x50	2.705	100	2.705	100
f45	3.850	3.250	100	0.500	Mini PRC	250	A15	250x250x50	3.250	100	3.250	100
f46	4.150	3.550	100	0.500	Mini PRC	250	A15	250x250x50	3.550	100	3.550	100
f47	4.150	3.475	100	0.575	PRC	450	B125	450x450x50	3.475	100	3.475	100
f48	4.150	3.550	100	0.500	Mini PRC	250	A15	250x250x50	3.550	100	3.550	100
f49	4.150	3.550	100	0.500	Mini PRC	250	A15	250x250x50	3.550	100	3.550	100
f50	4.000	3.400	100	0.500	Mini PRC	250	A15	250x250x50	3.400	100	3.400	100
f51	3.975	2.555	150	1.270	Type E	1200	C250	600x600x100	2.605	100	2.555	150

Foul Water Drainage Pipe Line Schedule

Pipe Reference	Upstream IL	Downstream IL	Pipe Diameter	Pipe Length	Pipe Gradient (1 in x)	Pipe Material
f1 - f2	3.200	3.000	100	6.230	31.2	Plastic
f2 - f6	3.000	2.925	150	10.800	144.0	Plastic
f3 - pipe	3.350	-	100	1.052	-	Plastic
f4 - pipe	3.350	-	100	1.052	-	Plastic
f5 - f6	3.350	2.975	100	6.230	16.6	Plastic
f6 - f17	2.925	2.850	150	11.038	147.2	Plastic
f7 - pipe	3.350	-	100	6.800	-	Plastic
f8 - pipe	3.350	-	100	1.948	-	Plastic
f9 - pipe	3.350	-	100	2.001	-	Plastic
f10 - f11	3.150	3.040	100	6.186	56.2	Plastic
f11- f15	2.990	2.915	150	10.800	144.0	Plastic
f12 - pipe	3.150	-	100	0.990	-	Plastic
f13 - pipe	3.150	-	100	0.990	-	Plastic
f14 - f15	3.150	2.965	100	6.186	33.4	Plastic
f15 - f17	2.915	2.850	150	9.167	141.0	Plastic
f16 - pipe	3.350	-	100	6.969	-	Plastic
f17 - F1	2.850	2.800	150	7.485	149.7	Plastic
f18 - f19	3.200	3.125	100	5.956	79.4	Plastic
f19 - f32	3.125	2.750	100	29.971	79.9	Plastic
f20 - pipe	3.200	-	100	0.990	-	Plastic
f21 - pipe	3.200	-	100	0.990	-	Plastic
f22 - pipe	3.200	-	100	6.186	-	Plastic
f23 - pipe	3.300	-	100	6.186	-	Plastic
f24 - pipe	3.300	-	100	0.990	-	Plastic
f25 - pipe	3.300	-	100	0.990	-	Plastic
f26 - pipe	3.300	-	100	6.186	-	Plastic
f27 - f28	3.400	3.320	100	6.186	77.3	Plastic
f28 - f32	3.320	2.750	100	12.229	21.5	Plastic
f29 - pipe	3.400	-	100	0.990	-	Plastic
f30 - pipe	3.400	-	100	0.990	-	Plastic
f31 - pipe	3.400	-	100	6.186	-	Plastic
f32 - f33	2.750	2.615	100	2.609	19.3	Plastic
f33 - F2	2.565	2.525	150	5.315	132.9	Plastic
f34 - f35	3.150	3.075	100	5.999	80.0	Plastic
f35 - f44	3.075	2.705	100	29.341	79.3	Plastic
f36 - pipe	3.150	-	100	1.051	-	Plastic
f37 - pipe	3.150	-	100	1.051	-	Plastic
f38 - pipe	3.150	-	100	5.999	-	Plastic
f39 - pipe	3.250	-	100	5.956	-	Plastic
f40 - pipe	3.250	-	100	0.990	-	Plastic
f41 - pipe	3.250	-	100	0.990	-	Plastic
f42 - pipe	3.250	-	100	0.990	-	Plastic
f43 - pipe	3.250	-	100	0.990	-	Plastic
f44 - f51	2.705	2.605	100	5.146	51.5	Plastic
f45 - pipe	3.250	-	100	6.347	-	Plastic
f46 - f47	3.550	3.475	100	5.956	79.4	Plastic
f47 - f51	3.475	2.605	100	12.215	14.0	Plastic
f48 - pipe	3.550	-	100	1.516	-	Plastic
f49 - pipe	3.550	-	100	1.559	-	Plastic
f50 - pipe	3.400	-	100	6.736	-	Plastic
f51 - F2	2.555	2.525	150	3.978	132.6	Plastic

Surface Water Private Drainage Manhole Schedule

Manhole Number	Cover Level (m)	Invert Level (m)	Major Pipe Diameter (mm)	Depth to Soffit (m)	Manhole Type	Manhole Diameter (mm)	Manhole Cover		Pipe In		Pipe Out	
							Load Class	Size (mm) (l) x (w) x (d)	Invert Level (m)	Pipe Diameter (mm)	Invert Level (m)	Pipe Diameter (mm)
re1	3.950	3.600	100	0.250	Rodding Eye	110	A15	110 oval	3.600	100	3.600	100
s1	3.950	3.455	100	0.395	PRC	450	B125	450x450x50	3.455	100	3.455	100
re2	3.650	3.300	100	0.250	Rodding Eye	110	A15	110 oval	3.300	100	3.300	100
s2	3.950	3.155	100	0.695	PRC	450	B125	450x450x50	3.155	100	3.155	100
re3	3.750	3.400	100	0.250	Rodding Eye	110	A15	110 oval	3.400	100	3.400	100
s3	3.950	3.255	100	0.595	PRC	450	B125	450x450x50	3.255	100	3.255	100
re4	3.750	3.400	100	0.250	Rodding Eye	110	A15	110 oval	3.400	100	3.400	100
s4	3.950	2.540	100	1.310	PRC	450	B125	450x450x50	2.540	100	2.540	100
s5	3.950	2.250	150	1.550	Type E	1200	C250	600x600x100	2.300	100	2.250	150
re5	3.800	3.450	100	0.250	Rodding Eye	110	A15	110 oval	3.450	100	3.450	100
re6	4.000	3.650	100	0.250	Rodding Eye	110	A15	110 oval	3.650	100	3.650	100
s6	3.950	3.175	100	0.675	PRC	450	B125	450x450x50	3.175	100	3.175	100
re7	3.800	3.450	100	0.250	Rodding Eye	110	A15	110 oval	3.450	100	3.450	100
re8	4.000	3.650	100	0.250	Rodding Eye	110	A15	110 oval	3.650	100	3.650	100
s7	3.950	3.075	100	0.775	PRC	450	B125	450x450x50	3.075	100	3.075	100
s8	3.900	2.120	150	1.630	Type E	1200	C250	600x600x100	2.170	100	2.120	150
re9	3.750	3.400	100	0.250	PRC	450	B125	450x450x50	3.400	100	3.400	100
re10	4.150	3.800	100	0.250	Rodding Eye	110	A15	110 oval	3.800	100	3.800	100
s9	3.850	3.085	100	0.665	PRC	450	B125	450x450x50	3.085	100	3.085	100
re11	3.750	3.400	100	0.250	Rodding Eye	110	A15	110 oval	3.400	100	3.400	100
re12	4.150	3.800	100	0.250	Rodding Eye	110	A15	110 oval	3.800	100	3.800	100
s10	3.875	2.135	150	1.590	Type E	1200	C250	600x600x100	2.185	100	2.135	150

Surface Water Drainage Pipe Line Schedule

Pipe Reference	Upstream IL	Downstream IL	Pipe Diameter	Distance	Pipe Gradient (1 in x)	Pipe Material
re1 - s1	3.600	3.455	100	14.497	100.0	Plastic
s1 - s2	3.455	3.155	100	9.894	33.0	Plastic
re2 - s2	3.300	3.155	100	14.459	99.7	Plastic
s2 - s5	3.155	2.300	100	8.638	10.1	Plastic
re3 - s3	3.400	3.255	100	14.500	100.0	Plastic
s3 - s4	3.255	2.540	100	9.850	13.8	Plastic
re4 - s4	3.400	2.540	100	14.500	16.9	Plastic
s4 - s5	2.540	2.300	100	2.902	12.1	Plastic
s5 - S2	2.250	2.180	150	10.378	148.3	Plastic
re5 - s6	3.450	3.175	100	27.469	99.9	Plastic
re6 - s6	3.650	3.175	100	13.031	27.4	Plastic
s6 - s7	3.175	3.075	100	9.850	98.5	Plastic
re7 - s7	3.450	3.075	100	27.469	73.3	Plastic
re8 - s7	3.650	3.075	100	13.031	22.7	Plastic
s7 - s8	3.075	2.120	100	1.953	2.0	Plastic
s8 - S3	2.120	2.085	150	4.542	129.8	Plastic
re9 - s9	3.400	3.085	100	31.182	99.0	Plastic
re10 - s9	3.800	3.085	100	13.909	19.5	Plastic
s9 - s10	3.085	2.185	100	9.293	10.3	Plastic
re11 - s10	3.400	2.185	100	31.489	25.9	Plastic
re12 - s10	3.800	2.185	100	13.952	8.6	Plastic
s10 - S3	2.135	2.085	150	6.834	136.7	Plastic

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General Notes

1. Do not scale this drawing.
2. All dimensions are in millimeters unless stated otherwise.
3. This drawing is to be read in conjunction with all other relevant drawings & specifications.
4. All proprietary items to be installed in strict compliance with manufacturers instructions and recommendations.
5. No works shall commence on site until approval has been obtained from all relevant Agencies / Authorities.
6. All dimensions referred to in this drawing must be verified on site before commencing work of any kind.

Lincolnshire County Council Highways Notes

1. "The specification in all respects shall be in accordance with the current Lincolnshire Development Road and Sustainable Drainage Design Guide" and "Development Road and Sustainable Drainage Specification and Construction" publications in force in the county at the time of construction.
2. The minimum longitudinal fall for highways, without channel blocks shall be 1 in 150, and with channel blocks 1 in 250 (see Clause 10.1).
3. In addition, ensure that the first section of any side road falls away from the road from the road to which it is connecting. If general topography requires it to rise, this change of direction should take place after the first set of gullies. This is to ensure a 'false channel' with associated drainage problems is not created in the bellmouth of junctions.
4. "General deterioration of the existing highway/footway/verges created through construction of the new Section 38 Development will be reinstated to the current Development Road Specification at the developers' own cost at the agreement of the inspecting Highway Officer".
5. "All signs and line markings are to be agreed with the Senior Highways Officer prior to construction".
6. "No Private surface water shall discharge onto the adoptable highway"

Key

- Site Boundary
- Section 38/104/existing surface water sewer
- Section 38/104/existing surface water manhole
- Highway gully
- Section 104/existing foul water sewer
- Section 104/existing foul water manhole
- Private surface water drainage
- Lateral surface water manhole
- 450mm dia. surface water PPIC
- Rodding eye
- Rainwater downpipe
- Private foul water drainage
- Lateral foul water manhole
- 450mm dia. foul water PPIC
- 250mm dia. foul water Mini PPIC
- Soil and vent pipe

Revision	Description	Date
P1	First Issue	13.12.2016

PRELIMINARY

G30 CONSULTING

Unit 6, Neepsend Triangle Business Centre, 1 Burton Road, Sheffield, South Yorkshire, S3 8BW
W: www.g30consulting.com
E: enquiries@g30consulting.com
T: 0114 349 2720

Project
Seagate Homes,
Church Street, Holbeach, Lincolnshire

Title
Domestic Drainage Layout

Drawn by	Checked by	Paper Size
SG	SG	A1

Drawing Number	Revision	Scale
05-0082-008	P1	1:250

Date
13.12.2016