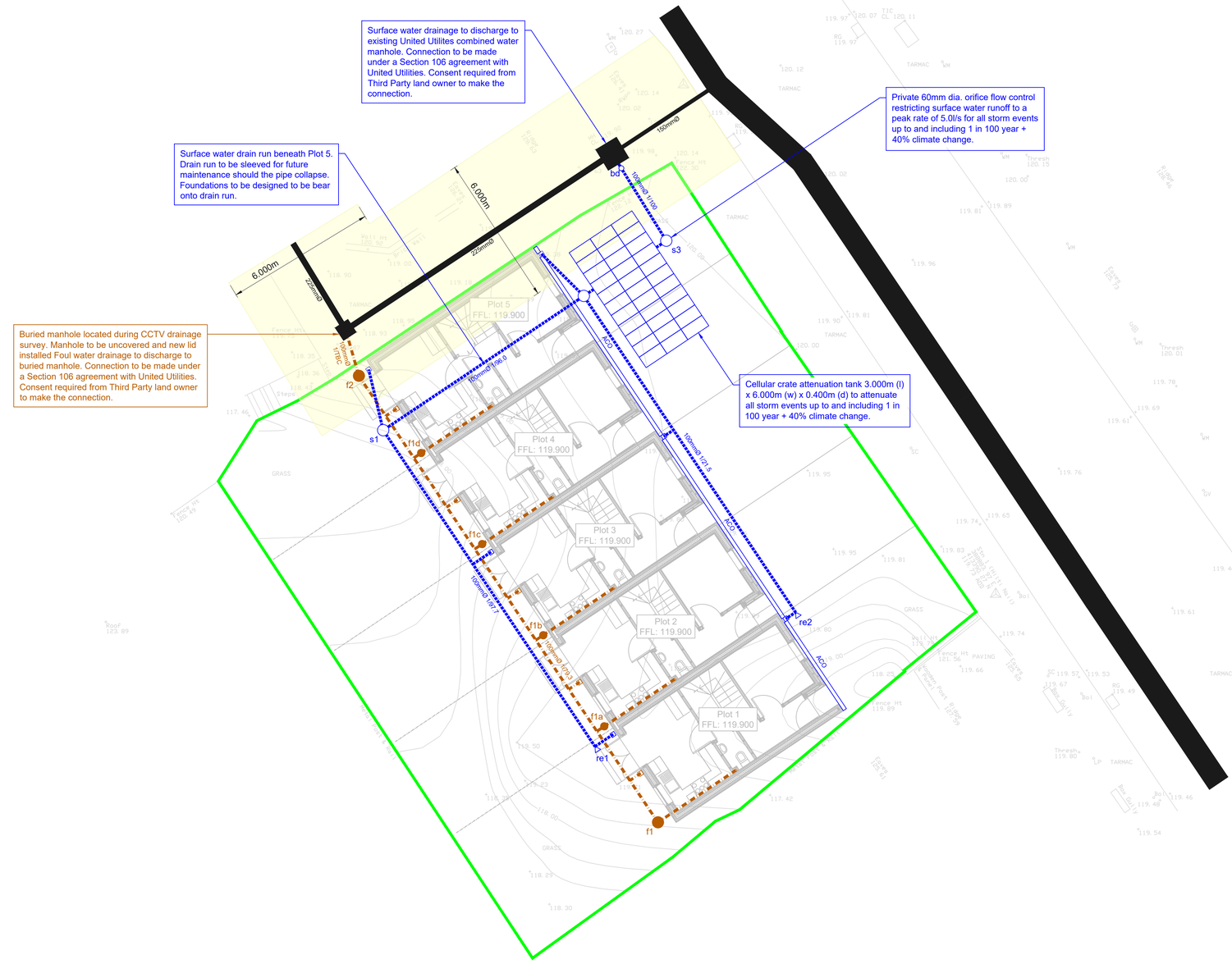
N



Surface Water Drainage Manhole Schedule

Manhole Number	Cover Level (m)	Invert Level (m)	Major Pipe Diameter (mm)	Depth to Invert (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	119.300	118.850	100	0.450	Rodng eye	100	A15	110 oval	118.850	100	118.850	100
s1	119.300	118.695	100	0.605	PRC	450	A15	450x450x50	118.695	100	118.695	100
re2	119.750	119.300	100	0.450	Rodng eye	100	B125	110 oval	119.300	100	119.300	100
s2	119.750	118.595	100	1.155	Silt trap	450	B125	450x450x50	118.595	100	118.595	100
Attenuation Tank	119.750	118.290	100	1.460	Cellular crate attenuation tan 3.000 (l) x 6.000m (w) x 0.400m (d)				118.590	100	118.290	100
s3	120.050	118.285	100	1.765	Orifice flow control chamber	450	B125	450x450x50	118.285	100	118.285	100
MH1	119.920	116.760	150	3.160	Existing United Utilities combined water manhole				116.790	225	116.760	150
									116.820	100		
									116.810	100		

Surface Water Drainage Pipe Line Schedule

Pipe Reference	Upstream IL	Downstream IL	Pipe Diameter	Distance	Pipe Gradient (1 in x)	Pipe Material
re1 - s1	118.850	118.695	100	15.143	97.7	Plastic
s1 - s2	118.695	118.595	100	9.600	96.0	Plastic
re2 - s2	119.300	118.595	100	15.143	21.5	Plastic
s2 - Attenuation Tank	118.595	118.590	100	0.475	100.0	Plastic
Attenuation Tank - s3	118.290	118.285	100	0.475	95.0	Plastic
s3 - MH1	118.285	116.810	100	4.073	Backdrop	Plastic

Foul Water Drainage Manhole Schedule

Manhole Number	Cover Level (m)	Invert Level (m)	Major Pipe Diameter (mm)	Depth to Invert (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	119.300	118.700	100	0.600	PRC	450	A15	450x450x50	118.700	100	118.700	100
f1a	119.300	118.700	100	0.600	Mini PRC	300	A15	300x300x50	118.700	100	118.700	100
f1b	119.300	118.700	100	0.600	Mini PRC	300	A15	300x300x50	118.700	100	118.700	100
f1c	119.300	118.700	100	0.600	Mini PRC	300	A15	300x300x50	118.700	100	118.700	100
f1d	119.300	118.700	100	0.600	Mini PRC	300	A15	300x300x50	118.700	100	118.700	100
f2	119.300	118.405	100	0.695	PRC	450	A15	450x450x50	118.405	100	118.405	100

Foul Water Drainage Pipe Line Schedule

Pipe Reference	Upstream IL	Downstream IL	Pipe Diameter	Distance	Pipe Gradient (1 in x)	Pipe Material
f1 - f2	118.700	118.405	100	23.381	79.3	Plastic
f1a (f1 - f2)	118.700	118.645	100	0.350	6.4	Plastic
f1b (f1 - f2)	118.700	118.590	100	0.350	3.2	Plastic
f1c (f1 - f2)	118.700	118.525	100	0.350	2.0	Plastic
f1d (f1 - f2)	118.700	118.480	100	0.350	1.6	Plastic
f2 - MH2	118.405	TBC	100	TBC	TBC	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.

Key

- Site boundary
- Sewer easement
- Combined water drainage - existing
- Combined water manhole - existing
- Surface water drainage - rainwater downpipe
- Surface water drainage - rodding eye
- Surface water drainage - proposed
- Surface water manhole - proposed
- Surface water drainage - attenuation tank
- Surface water drainage - ACO channel drain
- Foul water drainage - soil and vent pipes
- Foul water drainage - proposed
- Foul water manhole - proposed

Revision	Description	Date
P1	First Issue	30.11.2018

PRELIMINARY

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Title
Foul and Surface Water Drainage Layout Plan

Drawn by	Checked by	Paper Size
SG	SG	A1

Drawing Number	Revision	Scale
07-0069-002	P1	1:100

Date
30.11.2018