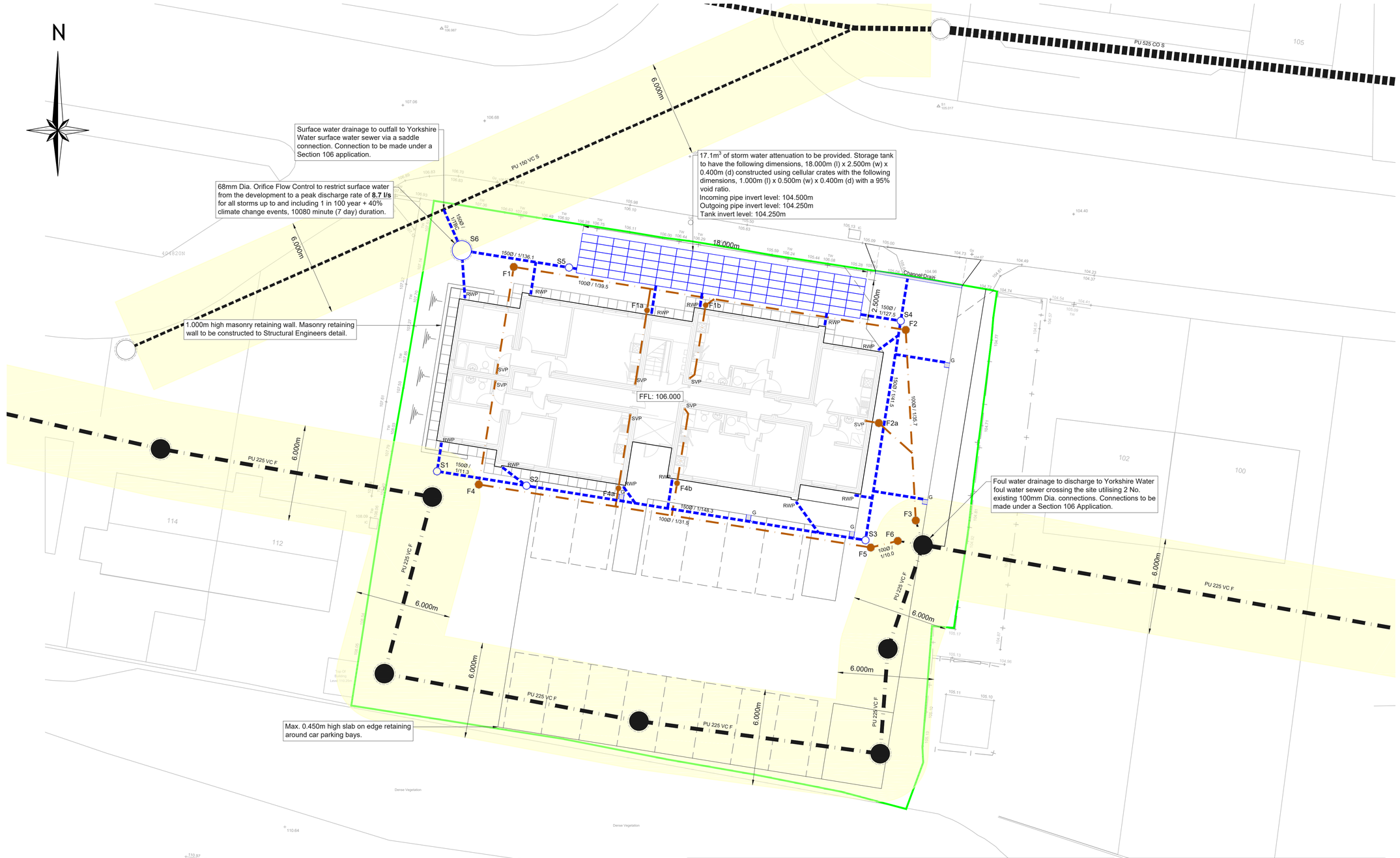


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General Notes

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
- Foul water manhole
- Foul water drainage - soil and vent pipes
- Foul water drainage - 300mm dia. Mini PPIC
- Foul water drainage - 450mm dia. PPIC
- Foul water drainage - existing
- Foul water manhole - existing
- Surface water manhole
- Surface water drainage - 450mm dia. PPIC
- Surface water drainage - rainwater downpipe
- Surface water drainage - rodding eye
- Surface water drainage - channel drain
- Gully
- Surface water drainage - existing
- Surface water manhole - existing

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	106.030	104.850	100	1.180	PPIC	450	A15	450Ø x 40	104.850	100	104.850	100
F1a	105.850	104.850	100	1.000	Mini PPIC	300	A15	300Ø x 40	104.850	100	104.850	100
F1b	105.850	104.850	100	1.000	Mini PPIC	300	A15	300Ø x 40	104.850	100	104.850	100
F2	105.290	104.220	100	1.070	PPIC	450	C250	450x450x75	104.220	100	104.220	100
F2a	105.555	104.625	100	0.930	PPIC	450	C250	450x450x75	104.625	100	104.625	100
F3	105.505	103.885	100	1.620	PPIC	450	C250	450x450x75	103.885	100	103.885	100
F4	106.045	104.850	100	1.195	PPIC	450	A15	450Ø x 40	104.850	100	104.850	100
F4a	105.850	104.850	100	1.000	Mini PPIC	300	A15	300Ø x 40	104.850	100	104.850	100
F4b	105.850	104.850	100	1.000	Mini PPIC	300	A15	300Ø x 40	104.850	100	104.850	100
F5	105.650	104.060	100	1.590	PPIC	450	C250	450x450x75	104.060	100	104.060	100
F6	105.565	103.885	100	1.680	PPIC	450	C250	450x450x75	103.885	100	103.885	100
Ex F1	105.590	103.740	225	1.850	Existing	Existing	Existing	Existing	103.740	225	103.740	225
									103.865	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	104.850	104.220	100	24.868	39.5	Plastic
F1a (F1 - F2)	104.850	104.630	100	1.363	6.2	Plastic
F1b (F1 - F2)	104.850	104.528	100	0.654	2.0	Plastic
F2 - F3	104.220	103.885	100	11.949	35.7	Plastic
F2a (F2 - F3)	104.625	104.409	100	2.815	13.0	Plastic
F3 - Ex. F1	103.885	103.865	100	1.600	80.0	Plastic
F4 - F5	104.850	104.060	100	24.868	31.5	Plastic
F4a (F4 - F5)	104.850	104.574	100	1.150	4.2	Plastic
F4b (F4 - F5)	104.850	104.461	100	2.050	5.3	Plastic
F5 - F6	104.060	103.885	100	1.741	10.0	Plastic
F6 - Ex. F1	103.885	103.865	100	1.600	80.0	Plastic

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)
S1	106.630	105.500	150	1.130	PPIC	450	A15	450Ø x 40	105.500	150	105.500	150
S2	105.865	105.000	150	0.865	PPIC	450	B125	450Ø x 40	105.000	150	105.000	150
S3	105.670	104.855	150	0.815	PPIC	450	C250	450x450x75	104.855	150	104.855	150
S4	105.270	104.520	150	0.750	PPIC	450	C250	450x450x75	104.520	150	104.520	150
Attenuation Tank	105.985	104.250	150	1.735	Attenuation tank, see construction detail drawing				104.500	150	104.250	150
S5	105.985	104.240	150	1.745	PPIC	450	B125	450Ø x 40	104.240	150	104.240	150
S6	106.865	104.190	150	2.675	Orifice Flow Control	1200	C250	600x600x100	104.190	150	104.190	150
Saddle Connection	107.245	TBC	150	TBC	Saddle connection	-	-	-	TBC	150	TBC	150

Surface Water Drainage Pipe Line Schedule

Pipe Reference	Upstream IL	Downstream IL	Pipe Diameter	Distance	Pipe Gradient (1 in x)	Pipe Material
S1 - S2	105.500	105.000	150	5.672	11.3	Plastic
S2 - S3	105.000	104.855	150	21.510	148.3	Plastic
S3 - S4	104.855	104.520	150	13.912	41.5	Plastic
S4 - Attenuation Tank	104.520	104.500	150	2.550	127.5	Plastic
Attenuation Tank - S5	104.250	104.240	150	0.500	50.0	Plastic
S5 - S6	104.240	104.190	150	6.806	136.1	Plastic
S6 - Saddle	104.190	TBC	150	2.791	TBC	Plastic

Revision	Description	Date
P2	Foul water drainage amended to suit Structural Engineers design. Existing surface water drainage added.	22/08/2017
P1	First Issue	17/08/2017

PRELIMINARY

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Title
Drainage Layout Plan

Drawn by	Checked by	Paper Size
CB	SG	A1

Drawing Number	Revision	Scale	Date
05-0104-002	P2	1:125	17.08.2017