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Cedar Barn White Lodge Walgrave Northampton NN6 9PY	Highover Farm, Walsworth Foul Water Network Details	
Date 31/07/2026 14:11 File Drainage Network1.MDX	Designed by SWF Checked by	
XP Solutions	Network 2020.1.3	

FOUL SEWERAGE DESIGN

Design Criteria for Foul - Main

Pipe Sizes STANDARD Manhole Sizes STANDARD

Industrial Flow (l/s/ha)	0.00	Add Flow / Climate Change (%)	0
Industrial Peak Flow Factor	0.00	Minimum Backdrop Height (m)	0.000
Flow Per Person (l/per/day)	222.00	Maximum Backdrop Height (m)	0.000
Persons per House	3.00	Min Design Depth for Optimisation (m)	1.200
Domestic (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.75
Domestic Peak Flow Factor	6.00	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Network Design Table for Foul - Main

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F1.000	82.662	1.560	53.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1.001	11.808	0.320	36.9	0.000	0	0.0	1.500	o	150	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F1.000	70.000	0.000	0.0	0	0.0	0	0.00	1.21	21.3	0.0
F1.001	68.440	0.000	0.0	0	0.0	0	0.00	1.45	25.5	0.0

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Manhole Schedules for Foul - Main

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)
FA1	71.800	1.800	Open Manhole	1200	F1.000	70.000	150				
FA2	70.750	2.310	Open Manhole	1200	F1.001	68.440	150	F1.000	68.440	150	
FFMH428	70.675	2.555	Open Manhole	0		OUTFALL		F1.001	68.120	150	

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
FA1	519995.721	231211.459	519995.721	231211.459	Required	
FA2	520074.193	231237.442	520074.193	231237.442	Required	
FFMH428	520085.921	231236.077			No Entry	

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PIPELINE SCHEDULES for Foul - Main

Upstream Manhole

PN	Hyd	Diam	MH	C.Level	I.Level	D.Depth	MH	MH DIAM., L*W
	Sect	(mm)	Name	(m)	(m)	(m)	Connection	(mm)
F1.000	o	150	FA1	71.800	70.000	1.650	Open Manhole	1200
F1.001	o	150	FA2	70.750	68.440	2.160	Open Manhole	1200

Downstream Manhole

PN	Length	Slope	MH	C.Level	I.Level	D.Depth	MH	MH DIAM., L*W
	(m)	(1:X)	Name	(m)	(m)	(m)	Connection	(mm)
F1.000	82.662	53.0	FA2	70.750	68.440	2.160	Open Manhole	1200
F1.001	11.808	36.9	FFMH428	70.675	68.120	2.405	Open Manhole	0