


Banners Gate Ltd		Page 1
Cavendish House 10-11 Birmingham Street Halesowen W.Midlands B63 3HN	Pennycroft Lane FWS network 2	
Date 12-12-2014 File PENNYCROFT FWS NETWORK ...	Designed by scm Checked by	
XP Solutions	Network 2015.1	




FOUL SEWERAGE DESIGNDesign Criteria for FOUL WATER NETWORK 2 15.02.16.FWS

Pipe Sizes FOUL WATER NETWORK 2 15.02.16 EXP
Manhole Sizes FOUL WATER NETWORK 2 15.02.16 EXP

Industrial Flow (l/s/ha)	0.00	Add Flow / Climate Change (%)	10
Industrial Peak Flow Factor	0.00	Minimum Backdrop Height (m)	5.000
Flow Per Person (l/per/day)	225.00	Maximum Backdrop Height (m)	10.000
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)	1.00
Domestic Peak Flow Factor	6.00	Min Slope for Optimisation (1:X)	500


Designed with Level Soffits

Network Design Table for FOUL WATER NETWORK 2 15.02.16.FWS

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k	HYD SECT	DIA (mm)	Auto Design
F1.000	9.470	0.063	150.3	0.000	11	0.0	1.500	o	150	
F1.001	7.819	0.052	150.4	0.000	0	0.0	1.500	o	150	
F1.002	9.934	1.985	5.0	0.000	4	0.0	1.500	o	150	

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	82.200	0.000	0.0	11	0.1	22	0.35	0.71	12.6	0.6
F1.001	82.137	0.000	0.0	11	0.1	22	0.35	0.71	12.6	0.6
F1.002	82.085	0.000	0.0	15	0.1	11	1.26	3.93	69.5	0.8

Banners Gate Ltd		Page 2
Cavendish House 10-11 Birmingham Street Halesowen W.Midlands B63 3HN		Pennycroft Lane FWS network 2
Date 12-12-2014 File PENNYCROFT FWS NETWORK ...		
XP Solutions		
		Designed by scm Checked by Network 2015.1

Manhole Schedules for FOUL WATER NETWORK 2 15.02.16.FWS

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)
F1	84.085	1.885	Open Manhole	1200	F1.000	82.200	150				
F2	84.105	1.968	Open Manhole	1200	F1.001	82.137	150	F1.000	82.137	150	150
F3	84.087	2.002	Open Manhole	1200	F1.002	82.085	150	F1.001	82.085	150	150
F4	83.879	3.779	Open Manhole	0		OUTFALL		F1.002	80.100	150	150

Free Flowing Outfall Details for FOUL WATER NETWORK 2 15.02.16.FWS

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
F1.002	F4	83.879	80.100	80.100	0	0