

DW Consulting Engineers LLP		Page 0
Marsland House, Marsland Road, Brooklands, Sale, Cheshire. M33 3AQ	Base Building MSP, Manchester	
Date 25/11/2019 15:58 File FW.MDX	Designed by Mono Checked by	
Innovyze	Network 2018.1.1	

FOUL SEWERAGE DESIGN

Design Criteria for Foul Network 1

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)	0.200
Flow Per Person (l/per/day)	222.00	Maximum Backdrop Height (m)	1.500
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 Network 1

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
1.000	22.275	0.371	60.0	0.000	0	0.0	1.500	o	150	
1.001	23.058	1.226	18.8	0.000	0	0.0	1.500	o	150	
1.002	6.986	0.070	99.8	0.000	0	0.0	1.500	o	150	
1.003	6.823	0.068	100.3	0.000	0	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)
1.000	34.300	0.000	0.0	0	0.0	0	0.00	1.13	20.0	0.0
1.001	33.929	0.000	0.0	0	0.0	0	0.00	2.03	35.8	0.0
1.002	32.703	0.000	0.0	0	0.0	0	0.00	0.88	15.5	0.0
1.003	32.633	0.000	0.0	0	0.0	0	0.00	0.87	15.5	0.0