


Cole Easdon Consultants		Page 0
York House, Edison Park Dorcan Way Swindon, SN3 3RB	FWS NW2 Bicester	
Date April 2011 File FWS NW2.MDX	Designed By TGL Checked By	
Elstree Computing Ltd	Network W.12.4	

FOUL SEWERAGE DESIGN

Design Criteria for FWS NW2.FWS

Pipe Sizes	STANDARD	Manhole Sizes	STANDARD
Industrial Flow (l/s/ha)	0.00	Add Flow / Climate Change (%)	10
Industrial Peak Flow Factor	0.00	Minimum Backdrop Height (m)	0.200
Flow Per Person (l/per/day)	225.00	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 FWS NW2.FWS

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	DWF (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.086	0.107	150.0	0.000	8	0.0	1.500	o	150
1.001	11.328	0.076	150.0	0.000	7	0.0	1.500	o	150
1.002	24.611	0.167	147.4	0.000	3	0.0	1.500	o	150

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ DWF (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	75.160	0.000	0.0	8	0.0	19	0.32	0.71	12.6	0.4
1.001	75.053	0.000	0.0	15	0.1	25	0.39	0.71	12.6	0.8
1.002	74.977	0.000	0.0	18	0.1	28	0.41	0.72	12.7	0.9

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PIPELINE SCHEDULES for FWS NW2.FWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH DIAM., L*W (mm)
1.000	o	150	7	77.133	75.160	1.823	1200
1.001	o	150	8	76.983	75.053	1.780	1200
1.002	o	150	9	77.107	74.977	1.980	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH DIAM., L*W (mm)
1.000	16.086	150.0	8	76.983	75.053	1.780	1200
1.001	11.328	150.0	9	77.107	74.977	1.980	1200
1.002	24.611	147.4	10	77.714	74.810	2.753	0

Free Flowing Outfall Details for FWS NW2.FWS

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.002	10	77.714	74.810	0.000	0	0