FOUL SEWERAGE DESIGN

Design Criteria for COMBINED DIVERSION - WEST BOLDON - 04.10.17.FWS

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)	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 COMBINED DIVERSION - WEST BOLDON - 04.10.17.FWS

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
1.000	8.215	0.181	45.4	0.000	0	0.0	1.500	o	375	Pipe/Conduit	
2.000	30.500	1.230	24.8	0.000	12	0.0	1.500	o	150	Pipe/Conduit	
1.001	29.114	1.345	21.6	0.000	0	0.0	1.500	o	375	Pipe/Conduit	
1.002	17.188	0.214	80.3	0.000	0	0.0	1.500	o	375	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)
1.000	38.520	0.000	0.0	0	0.0	0	0.00	2.38	263.2	0.0
2.000	39.794	0.000	0.0	12	0.0	14	0.66	1.76	31.2	0.6
1.001	38.339	0.000	0.0	12	0.0	11	0.60	3.45	381.4	0.6
1.002	36.994	0.000	0.0	12	0.0	15	0.38	1.79	197.7	0.6

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PIPELINE SCHEDULES for COMBINED DIVERSION - WEST BOLDON - 04.10.17.FWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	375	8101	40.318	38.520	1.423	Open Manhole	1350
2.000	o	150	F1	41.752	39.794	1.808	Open Manhole	1200
1.001	o	375	C1	39.985	38.339	1.271	Open Manhole	1350
1.002	o	375	C2	38.993	36.994	1.624	Open Manhole	1350

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	8.215	45.4	C1	39.985	38.339	1.271	Open Manhole	1350
2.000	30.500	24.8	C1	39.985	38.564	1.271	Open Manhole	1350
1.001	29.114	21.6	C2	38.993	36.994	1.624	Open Manhole	1350
1.002	17.188	80.3	9201	0.000	36.780		Open Manhole	1350

Free Flowing Outfall Details for COMBINED DIVERSION - WEST BOLDON - 04.10.17.FWS

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.002	9201	0.000	36.780	0.000	1350	0

Simulation Criteria for COMBINED DIVERSION - WEST BOLDON - 04.10.17.FWS

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Inlet Coeffiecient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 0 Number of Storage Structures 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model		FSR	
Return Period (years)		0	Cv (Summer) 0.750
Region	England and Wales		Cv (Winter) 0.840
M5-60 (mm)	0.000	Storm Duration (mins)	30
Ratio R	0.000		

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