

Drainage Design Report

Flow

v6.0

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Network	Storm Network 1
Filename	X:\1316 - Low Lane\5. Design\5.3 Flow\HIGHWAY.PFD
Username	WORK-PC\Work
Last analysed	18/12/2017 01:19:04
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Rainfall Methodology	FSR
Return Period (years)	30
Additional Flow (%)	0
FSR Region	England and Wales
M5-60 (mm)	20.000
Ratio-R	0.400
CV	0.750
Time of Entry (mins)	5.00
Maximum Time of Concentration (mins)	30.00
Maximum Rainfall (mm/hr)	150.0
Minimum Velocity (m/s)	1.00
Connection Type	Level Soffits
Minimum Backdrop Height (m)	0.200
Preferred Cover Depth (m)	0.600
Enforce best practice design rules	

	Name	Area (ha)	T of E (mins)	Add Inflow (l/s)	Cover Level (m)	Node Type	Manhole Type	Diameter (mm)	Width (mm)	Easting (m)	Northing (m)	Depth (m)	Notes
	H3	0.016	5.00		3.414	Manhole	Adoptable	1050		1730.398	2161.471	0.740	
	H1				3.351	Manhole	Adoptable	1050		1740.703	2161.220	0.738	
	H2	0.019	5.00		3.323	Manhole	Adoptable	1050		1783.547	2159.104	0.963	
	H6	0.018	5.00		3.308	Manhole	Adoptable	1050		1860.268	2148.608	0.317	
	H5	0.012	5.00		3.359	Manhole	Adoptable	1050		1840.701	2153.985	0.759	
	H4	0.033	5.00		3.183	Manhole	Adoptable	1050		1809.055	2157.532	0.974	
	1				2.940	Manhole	Adoptable	1050		1810.521	2175.932	0.840	

	Name	US Node	DS Node	Length (m)	ks (mm) / n	Velocity Equation	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	Link Type	T of C (mins)	Rain (mm/hr)	Con Offset (m)	Min DS IL (m)
?	1.000	H3	H1	10.308	0.600	Colebrook-White	2.674	2.613	0.061	169.0	225	Circular_Default Sewer Type	5.17	127.6		
?	1.001	H1	H2	42.896	0.600	Colebrook-White	2.613	2.360	0.253	169.6	225	Circular_Default Sewer Type	5.89	121.2		
	1.002	H2	H4	25.556	0.600	Colebrook-White	2.360	2.209	0.151	169.2	225	Circular_Default Sewer Type	6.31	117.7		
?	2.000	H6	H5	20.292	0.600	Colebrook-White	2.991	2.650	0.341	59.5	100	Circular_Default Sewer Type	5.34	126.0		
	2.001	H5	H4	31.844	0.600	Colebrook-White	2.600	2.284	0.316	100.8	150	Circular_Default Sewer Type	5.87	121.3		
	1.003	H4	1	18.458	0.600	Colebrook-White	2.209	2.100	0.109	169.3	225	Circular_Default Sewer Type	6.62	115.3		2.100

Node ID	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Node Type	MH Type		Link ID	IL (m)	Dia (mm)	Link Type
H3	1730.398	2161.471	3.414	0.740	1050		Manhole	Adoptable					
									0	1.000	2.674	225	Circular_Default Sewer Type
H1	1740.703	2161.220	3.351	0.738	1050		Manhole	Adoptable	1	1.000	2.613	225	Circular_Default Sewer Type
									0	1.001	2.613	225	Circular_Default Sewer Type
H2	1783.547	2159.104	3.323	0.963	1050		Manhole	Adoptable	1	1.001	2.360	225	Circular_Default Sewer Type
									0	1.002	2.360	225	Circular_Default Sewer Type
H6	1860.268	2148.608	3.308	0.317	1050		Manhole	Adoptable					
									0	2.000	2.991	100	Circular_Default Sewer Type
H5	1840.701	2153.985	3.359	0.759	1050		Manhole	Adoptable	1	2.000	2.650	100	Circular_Default Sewer Type
									0	2.001	2.600	150	Circular_Default Sewer Type
H4	1809.055	2157.532	3.183	0.974	1050		Manhole	Adoptable	1	2.001	2.284	150	Circular_Default Sewer Type
									2	1.002	2.209	225	Circular_Default Sewer Type
									0	1.003	2.209	225	Circular_Default Sewer Type
1	1810.521	2175.932	2.940	0.840	1050		Manhole	Adoptable	1	1.003	2.100	225	Circular_Default Sewer Type