

Project: 5954 565 Reading Road Winnersh, Wokingham, RG41 5HJ	Date: 22/08/2024			
Report Details: Type: Inflows Storm Phase: Phase	Designed by: FM	Checked by:	Approved By:	
	Company Address: The Stables High Cogges Witney, OX29 6UN			

**Catchment Area**Type : Catchment Area

Area (ha)	0.002
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Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.950
Winter Volumetric Runoff	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	100

**Catchment Area (1)**Type : Catchment Area

Area (ha)	0.011
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Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.950
Winter Volumetric Runoff	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: 5954 565 Reading Road Winnersh, Wokingham, RG41 5HJ	Date: 22/08/2024			
Report Details: Type: Junctions Storm Phase: Phase	Designed by: FM		Checked by:	Approved By:
Company Address: The Stables High Cogges Witney, OX29 6UN				

Outlets			
Junction	Outlet Name	Outgoing Connection	Outlet Type
Manhole	Outlet	Pipe (1)	Free Discharge
Manhole (1)	Outlet	Pipe	Free Discharge

Project: 5954 565 Reading Road Winnersh, Wokingham, RG41 5HJ	Date: 22/08/2024			
Report Details: Type: Stormwater Controls Storm Phase: Phase	Designed by: FM	Checked by:	Approved By:	
	Company Address: The Stables High Cogges Witney, OX29 6UN			



Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	38.690
Depth (m)	0.610
Base Level (m)	38.080
Freeboard (mm)	0
Soakaway Shape	Square
Diameter / Width (m)	1.800
Porosity (%)	60
Ineffective Storage Depth (m)	0.000
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.036
Side Infiltration Rate (m/hr)	0.036
Safety Factor	2.0
Total Volume (m³)	1.186

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Type : Cellular Storage

Dimensions	
Exceedance Level (m)	38.810
Depth (m)	0.400
Base Level (m)	38.400
Number of Crates Long	4
Number of Crates Wide	4
Number of Crates High	1
Porosity (%)	100
Crate Length (m)	1
Crate Width (m)	1
Crate Height (m)	0.4
Total Volume (m³)	6.410

Advanced	
Base Infiltration Rate (m/hr)	0.036
Side Infiltration Rate (m/hr)	0.036
Safety Factor	2.0

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Report Details: Type: Inflow Summary Storm Phase: Phase		Company Address: The Stables High Cogges Witney, OX29 6UN			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	Manhole		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (1)	Manhole (1)		Time of Concentration	0.011	100	0	100	0.011
TOTAL		0.0		0.013				0.013

Project: 5954 565 Reading Road Winnersh, Wokingham, RG41 5HJ	Date: 22/08/2024 Designed by: FM	Checked by:	Approved By:
Report Details: Type: Network Design Criteria Storm Phase: Phase	Company Address: The Stables High Cogges Witney, OX29 6UN		



Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
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Project: 5954 565 Reading Road Winnersh, Wokingham, RG41 5HJ	Date: 22/08/2024 Designed by: FM	Checked by:	Approved By:
Report Title: Rainfall Analysis Criteria	Company Address: The Stables High Cogges Witney, OX29 6UN		

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Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FSR

Type: FSR

Region	England And Wales
M5-60 (mm)	18.5
Ratio R	0.400
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
100.0	40.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760
4320	8640
5760	11520
7200	14400
8640	17280
10080	20160