Project:	Date:		
Sincox Lane Drainage Strategy Ref - 6129 Rev A	02/09/2026		
	Designed by: CR	Checked by: MT	Approved By: MT
Report Details: Type: Inflows Storm Phase: Phase	Company Address: Suite 5, Brightwater House Market Place, Ringwood BH24 1AP		

Catchment Area (Houses)

Type : Catchment Area

Area (ha)	0.076

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Catchment Area (Carriageways)

Type : Catchment Area

Area (ha)	0.071

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project:	Date:		
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Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address: Suite 5, Brightwater House Market Place, Ringwood BH24 1AP		



Attenuation Basin

Type : Pond

Dimensions

Exceedance Level (m)	18.900
Depth (m)	0.680
Base Level (m)	18.220
Freeboard (mm)	5
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	4.088
Total Volume (m³)	130.027

Depth (m)	Area (m²)	Volume (m³)
0.000	132.00	0.000
0.530	235.00	95.952

Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Orifice

Diameter (m)	0.029
Coefficient of Discharge	0.600
Invert Level (m)	18.220

Advanced

Perimeter	Circular
Length (m)	42.356
Friction Scheme	Manning's n
n	0.05

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Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area (Carriageways)	Attenuation Basin		Time of Concentration	0.071	100	10	110	0.078
Catchment Area (Houses)	Attenuation Basin		Time of Concentration	0.076	100	10	110	0.084
TOTAL		**0.0**		**0.147**				**0.162**

Project:	Date:		
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Report Details: Type: Network Design Criteria Storm Phase: Phase	Company Address: Suite 5, Brightwater House Market Place, Ringwood BH24 1AP		

Flow Options

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

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	☐

Pipe Size Library

Default

Add. Increment (mm)	75
Max. Diameter (mm)	0

Diameter (mm)	Min. Slope (1:X)	Max. Slope (1:X)
100	0.00	0.00
150	0.00	0.00

Project:	Date:		
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Report Title: Rainfall Analysis Criteria	Company Address: Suite 5, Brightwater House Market Place, Ringwood BH24 1AP		

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	10
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Project:	Date:		
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Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address: Suite 5, Brightwater House Market Place, Ringwood BH24 1AP		

FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m^3)
Catchment Area (Houses)	FSR: 1 years: +0 %: 15 mins: Winter	0.08	10.8	5.076
Catchment Area (Carriageways)	FSR: 1 years: +0 %: 15 mins: Winter	0.07	10.1	4.738

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Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address: Suite 5, Brightwater House Market Place, Ringwood BH24 1AP		

FSR: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m^3)
Catchment Area (Houses)	FSR: 30 years: +35 %: 15 mins: Winter	0.08	35.9	16.778
Catchment Area (Carriageways)	FSR: 30 years: +35 %: 15 mins: Winter	0.07	33.5	15.672

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FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m^3)
Catchment Area (Houses)	FSR: 100 years: +45 %: 15 mins: Winter	0.08	50.0	23.336
Catchment Area (Carriageways)	FSR: 100 years: +45 %: 15 mins: Winter	0.07	46.7	21.802

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Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address: Suite 5, Brightwater House Market Place, Ringwood BH24 1AP		

FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Attenuation Basin	FSR: 1 years: +0 %: 960 mins: Winter	18.393	18.393	0.173	0.173	2.0	25.369	0.000	0.000	0.7	43.816	80.489	OK

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Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address: Suite 5, Brightwater House Market Place, Ringwood BH24 1AP		

FSR: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Attenuation Basin	FSR: 30 years: +35 %: 960 mins: Winter	18.696	18.695	0.476	0.475	5.5	83.419	0.000	0.000	1.2	99.800	35.845	OK

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Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address: Suite 5, Brightwater House Market Place, Ringwood BH24 1AP		

FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Attenuation Basin	FSR: 100 years: +45 %: 960 mins: Winter	18.851	18.849	0.631	0.629	7.4	119.223	0.000	0.000	1.4	120.338	8.309	OK



Phase
FSR: 1 years: Increase Rainfall (%): +0: 960 mins: Winter

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
Attenuation Basin			0.7	43.816
TOTAL	2.0	45.522	0.7	43.816

Project:	Date:		
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Report Details: Type: Phase Management Storm Phase: Phase	Company Address: Suite 5, Brightwater House Market Place, Ringwood BH24 1AP		



Phase
FSR: 30 years: Increase Rainfall (%): +35: 960 mins: Winter

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
Attenuation Basin			1.2	99.800
TOTAL	5.5	124.731	1.2	99.800

Project:	Date:		
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Report Details: Type: Phase Management Storm Phase: Phase	Company Address: Suite 5, Brightwater House Market Place, Ringwood BH24 1AP		



Phase
FSR: 100 years: Increase Rainfall (%): +45: 960 mins: Winter

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
Attenuation Basin			1.4	120.338
TOTAL	7.4	169.504	1.4	120.338