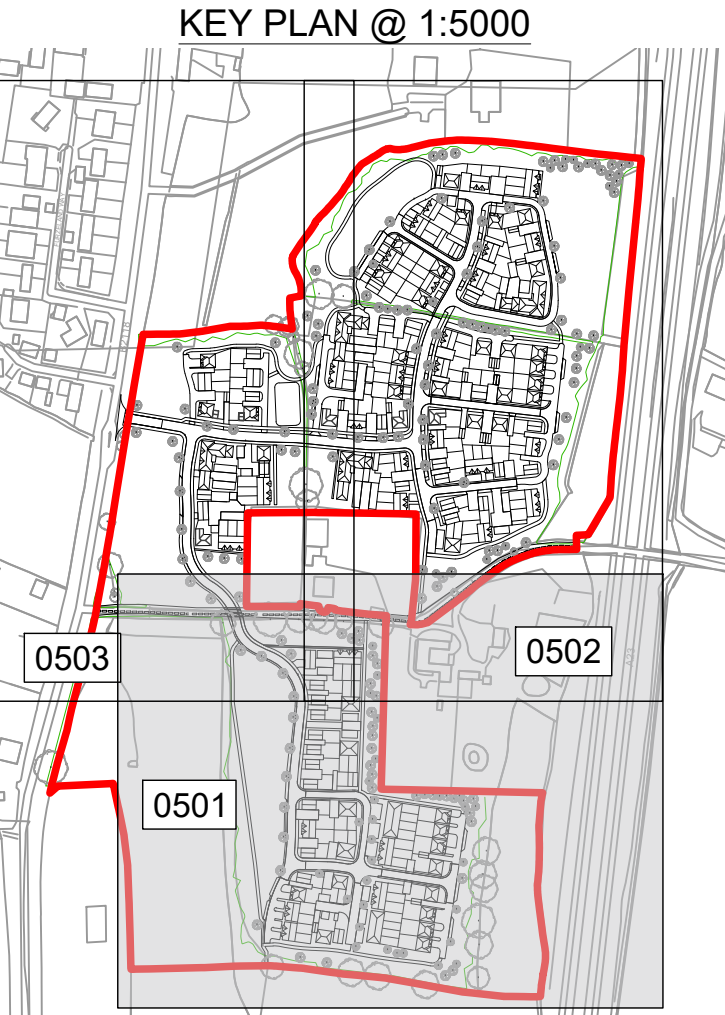


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 - 4.1. TOPO SURVEY: 17179-100-REV.B, RECEIVED 09.04.25
 - 4.2. MASTERPLAN: P24-2029_DE_002_06, RECEIVED 12.09.25
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- LEGEND
- APPLICATION BOUNDARY
 - SURFACE WATER SEWER
 - SURFACE WATER MANHOLES
 - SURFACE WATER FLOW CONTROL
 - SURFACE WATER OUTLET
 - PROPOSED FOUL WATER SEWER
 - PROPOSED FOUL WATER MANHOLES
 - ATTENUATION BASIN
 - INDICATIVE SEDIMENT FOREBAY
 - DISPLACED FLOOD AREA
 - CATCHMENT 1 - TOTAL AREA: 4.933ha
 - EFFECTIVE AREA: 3.874 ha
 - CATCHMENT 2 - TOTAL AREA: 1.994ha
 - EFFECTIVE AREA: 1.556 ha
 - EXCEEDANCE FLOW PATH
 - ROOT PROTECTION AREAS

PRELIMINARY
DRAWING/DESIGN IS STILL 'IN DEVELOPMENT'
YOU ARE ADVISED TO MAKE DUE ALLOWANCE

P02	UPDATED TO LATEST ARCHITECT LAYOUT	26.09.2025	SF	COH
P01	FIRST ISSUE	09.10.2023	RL	RW

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Client

WELBECK LAND

Project Name
**SAYERS COMMON
LAND AT COOMBE FARM**

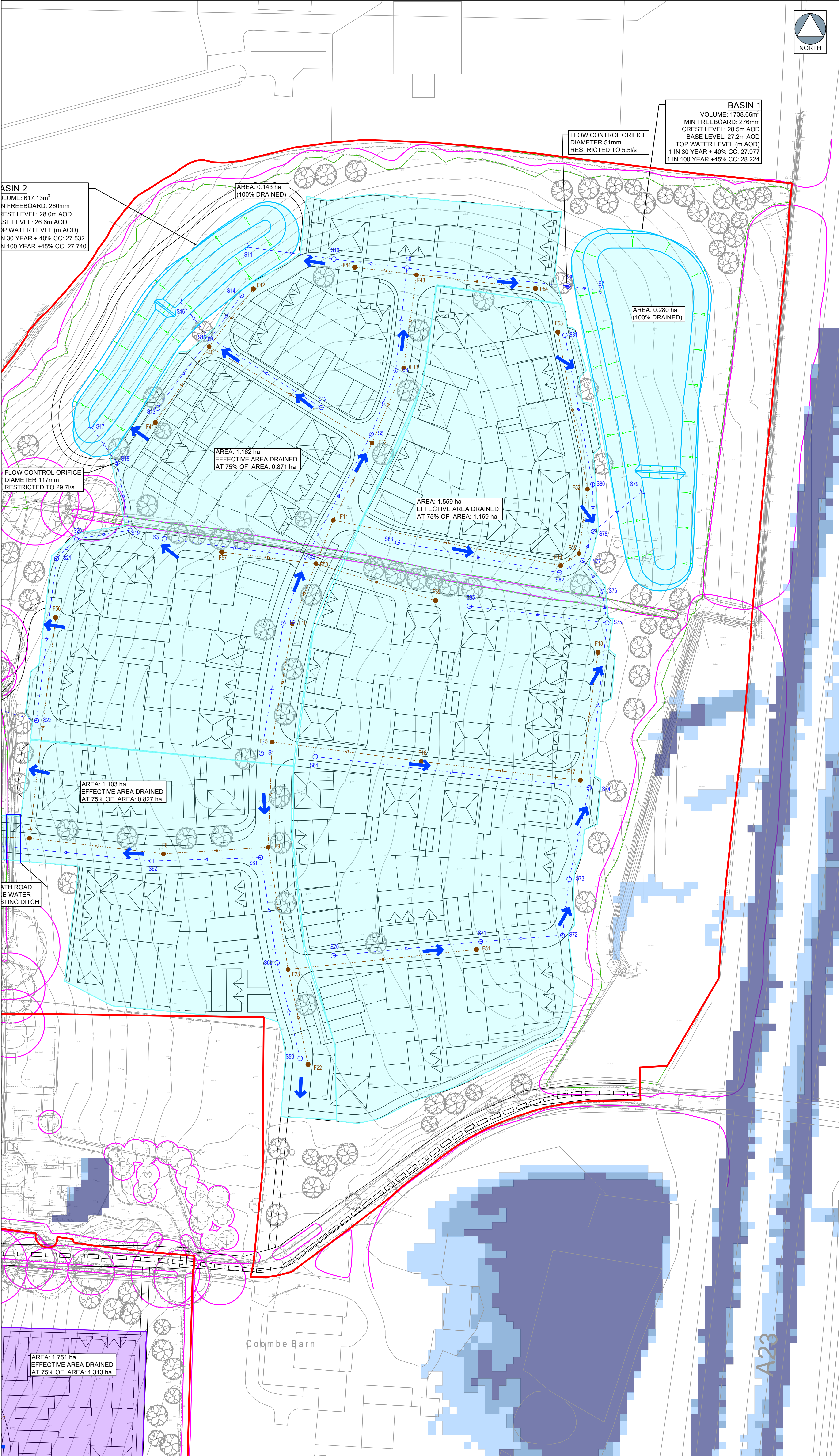
Title
**SITE LAYOUT DRAINAGE STRATEGY
SHEET 1 OF 3**

Project Phase			
PRELIMINARY			
Date Created	Drawn By	Approved By	Suitability Code
5.10.2023	RL	RW	-
BA Project Number		Scale	(AT A1)
145.5007		1:500	
BA Drawing No:			Revision
145.5007.0501			P02



RISK OF FLOODING FROM SURFACE WATER
(YEARLY CHANCE OF FLOODING BETWEEN
2040 TO 2060)

LOW RISK
MEDIUM RISK
HIGH RISK

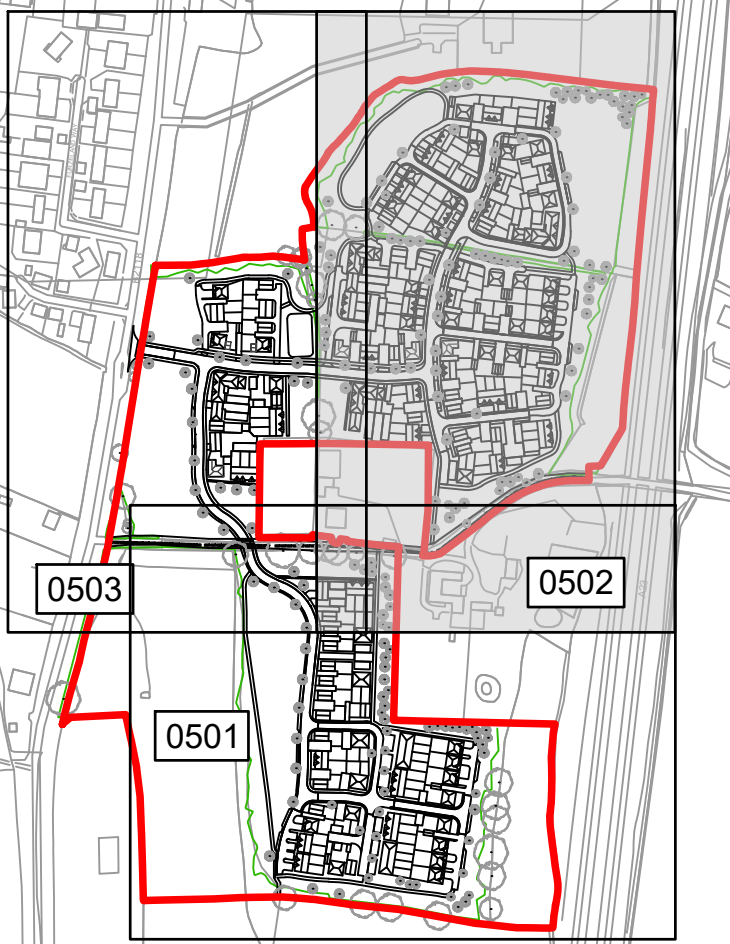


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KEY PLAN @ 1:5000



LEGEND

- APPLICATION BOUNDARY
- SURFACE WATER SEWER
- SURFACE WATER MANHOLES
- SURFACE WATER FLOW CONTROL
- SURFACE WATER OUTLET
- PROPOSED FOUL WATER SEWER
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RISK OF FLOODING FROM SURFACE WATER
(YEARLY CHANCE OF FLOODING BETWEEN 2040 TO 2060)

- LOW RISK
- MEDIUM RISK
- HIGH RISK



PRELIMINARY

DRAWING/DESIGN IS STILL 'IN DEVELOPMENT'
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P02	UPDATED TO LATEST ARCHITECT LAYOUT	26.09.2025	SF	COH
P01	FIRST ISSUE	09.10.2023	RL	RW
Rev	Description	Date	By	App'd

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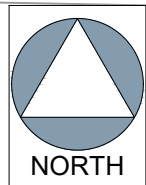
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The Botley, Coombe Hall Estate, Fareham, PO16 8UT
01329 711 000
info@paulbashamassociates.com www.paulbashamassociates.com

WELBECK LAND

Project Name:
**SAYERS COMMON
LAND AT COOMBE FARM**

Title:
**SITE LAYOUT DRAINAGE STRATEGY
SHEET 2 OF 3**

Project Phase: PRELIMINARY			
Date Created: 05.10.2023	Drawn By: RL	Approved By: RW	Suitability Code: -
PBA Project Number: 145.5007	Scale: 1:1000	(AT A1)	
PBA Drawing No: 145.5007.0502	Revision:	P02	

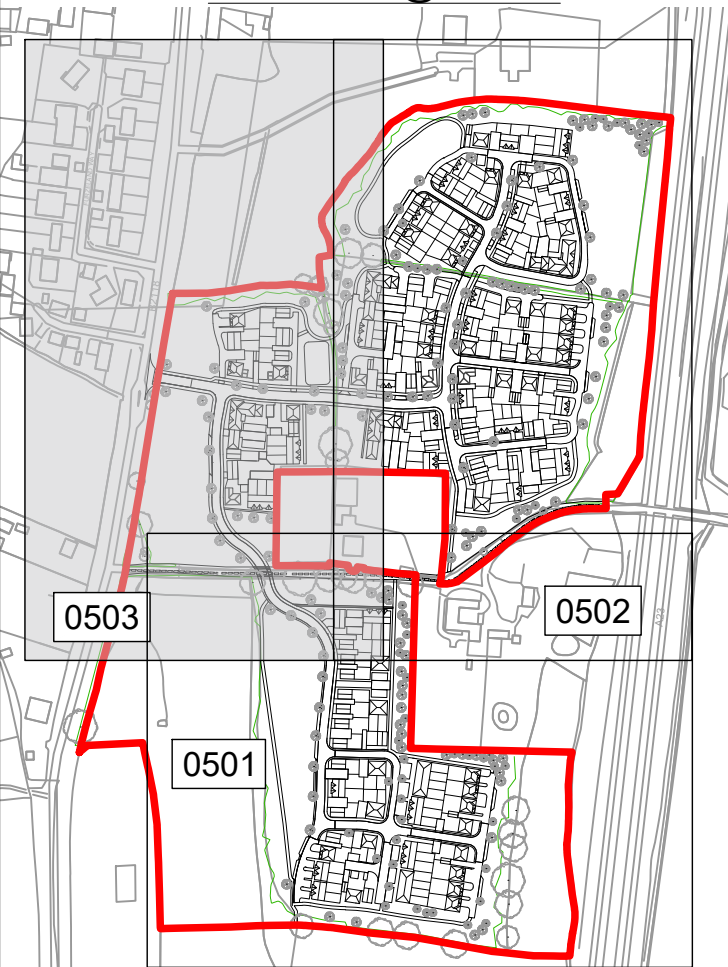


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KEY PLAN @ 1:5000



LEGEND

- | | |
|---|---|
|  | APPLICATION BOUNDARY |
|  | SURFACE WATER SEWER |
|  | SURFACE WATER MANHOLES |
|  | SURFACE WATER FLOW CONTROL |
|  | SURFACE WATER OUTLET |
|  | PROPOSED FOUL WATER SEWER |
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|  | EXCEEDANCE FLOW PATH |
|  | ROOT PROTECTION AREAS |

RISK OF FLOODING FROM SURFACE WATER
(YEARLY CHANCE OF FLOODING BETWEEN
2040 TO 2060)

-  LOW RISK
 MEDIUM RISK
 HIGH RISK

0m 25m

PRELIMINARY

DRAWING/DESIGN IS STILL 'IN DEVELOPMENT'
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P02	UPDATED TO LATEST ARCHITECT LAYOUT	26.09.2025	SF	CO
P01	FIRST ISSUE	09.10.2023	RL	RW
Rev	Description	Date	By	App



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Project Name

SAYERS COMMON
LAND AT COOMBE FARM

Title

SITE LAYOUT DRAINAGE STRATEGY
SHEET 3 OF 3

Project Phase


PRELIMINARY

Date Created	Drawn By	Approved By	Suitability Code
05.10.2023	RL	RW	-
PBA Project Number		Scale	
145.5007		1:500	(AT A)

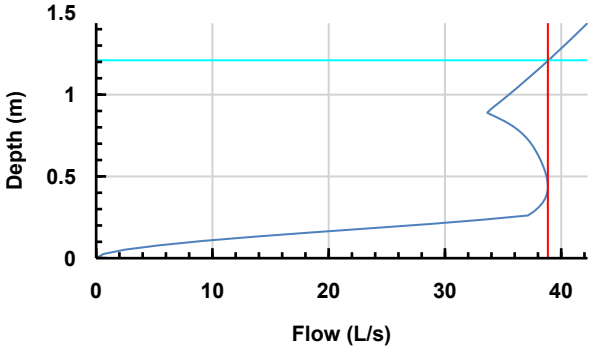
145.5007.0503


P02

QMS2023/v8/310723/J

Project: Land at Coombe Farm Sayers Common Catchment 1 (Northern Catchment)		Date: 26/09/2025			
Report Details: Type: Junctions Storm Phase: Catchment 1		Designed by: SF	Checked by: COH		Approved By: MDW
		Company Address: Paul Basham Associates			

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
S23	Outlet	S23-S24	Free Discharge
S26	Outlet	S26-S27	Free Discharge
S27	Outlet	S27-S28	Free Discharge
S19	Outlet	S19-S20	Free Discharge
S21	Outlet	S21-S22	Free Discharge
S30	Outlet	S30-S31	Free Discharge
S16	Outlet	S16-S17	Free Discharge
S9	Outlet	S9-S10	Free Discharge
S10	Outlet	S10-S11	Free Discharge
S11	Outlet	S11-S16	Free Discharge
S25	Outlet	S25-S26	Free Discharge
S22	Outlet	S22-S23	Free Discharge
S8	Outlet	S8-S9	Orifice
	Diameter (m)	0.051	
	Coefficient of Discharge	0.600	
	Invert Level (m)	27.160	
S20	Outlet	S20-S21	Free Discharge
S18	Outlet	S18-S19	Orifice
	Diameter (m)	0.117	
	Coefficient of Discharge	0.600	
	Invert Level (m)	26.517	
S32	Outlet	S32-S33	Hydro-Brake®
	Invert Level (m)	21.639	
	Design Depth (m)	1.210	
	Design Flow (L/s)	38.9	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	<input checked="" type="checkbox"/>	
	Unit Reference	SHE-0262-3890-1210-3890	
			
S29	Outlet	S29-S30	Free Discharge
S24	Outlet	S24-S25	Free Discharge

Project: Land at Coombe Farm Sayers Common Catchment 1 (Northern Catchment)		Date: 26/09/2025			
Report Details: Type: Stormwater Controls Storm Phase: Catchment 1		Designed by: SF	Checked by: COH		Approved By: MDW
		Company Address: Paul Basham Associates			



Basin 2

Type : Pond


Dimensions

Exceedance Level (m)	28.000
Depth (m)	1.400
Base Level (m)	26.600
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	5.97
Total Volume (m³)	616.724

Depth (m)	Area (m²)	Volume (m³)
0.000	287.71	0.000
0.100	334.81	31.096
0.200	383.43	66.981
0.300	432.60	107.757
0.400	482.33	153.480
0.500	532.61	204.206
0.600	583.46	259.990
0.700	634.86	320.888
0.800	686.82	386.954
0.900	739.33	458.246
1.000	792.40	534.817
1.100	846.04	616.724
1.200	900.22	704.023
1.300	954.97	796.769
1.400	1009.66	894.988

Advanced

Perimeter	Circular
Length (m)	85.366
Friction Scheme	Manning's n
n	0.35

Project: Land at Coombe Farm Sayers Common Catchment 1 (Northern Catchment)	Date: 26/09/2025			
Report Details: Type: Stormwater Controls Storm Phase: Catchment 1	Designed by: SF	Checked by: COH	Approved By: MDW	
Company Address: Paul Basham Associates				



Basin 3

Type : Pond


Dimensions

Exceedance Level (m)	23.120
Depth (m)	1.300
Base Level (m)	21.820
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.263
Total Volume (m³)	620.763

Depth (m)	Area (m²)	Volume (m³)
0.000	481.97	0.000
0.100	507.71	49.479
0.200	534.53	101.585
0.300	561.92	156.402
0.400	589.87	213.986
0.500	618.39	274.393
0.600	647.47	337.681
0.700	677.12	403.905
0.800	707.34	473.123
0.900	738.11	545.390
1.000	769.46	620.763
1.100	801.37	699.299
1.200	833.84	781.053
1.300	868.63	866.171

Advanced

Perimeter	Circular
Length (m)	43.259
Friction Scheme	Manning's n
n	0.35

Project: Land at Coombe Farm Sayers Common Catchment 1 (Northern Catchment)	Date: 26/09/2025			
Report Details: Type: Stormwater Controls Storm Phase: Catchment 1	Designed by: SF	Checked by: COH	Approved By: MDW	
Company Address: Paul Basham Associates				



Basin 4

Type : Pond


Dimensions

Exceedance Level (m)	23.150
Depth (m)	1.450
Base Level (m)	21.700
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	4.682
Total Volume (m³)	1360.641

Depth (m)	Area (m²)	Volume (m³)
0.000	858.73	0.000
0.100	912.37	88.542
0.200	967.66	182.530
0.300	1023.52	282.076
0.400	1079.95	387.237
0.500	1136.95	498.069
0.600	1194.51	614.630
0.700	1252.64	736.976
0.800	1311.34	865.163
0.900	1370.60	999.249
1.000	1430.43	1139.290
1.100	1490.83	1285.343
1.200	1551.80	1437.464
1.300	1613.33	1595.711
1.400	1675.44	1760.140
1.450	1708.77	1844.743

Advanced

Perimeter	Circular
Length (m)	94.198
Friction Scheme	Manning's n
n	0.35

Project: Land at Coombe Farm Sayers Common Catchment 1 (Northern Catchment)		Date: 26/09/2025			
Report Details: Type: Stormwater Controls Storm Phase: Catchment 1		Designed by: SF	Checked by: COH		Approved By: MDW
		Company Address: Paul Basham Associates			



Basin 1

Type : Pond


Dimensions

Exceedance Level (m)	28.500
Depth (m)	1.300
Base Level (m)	27.200
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	4.754
Total Volume (m³)	1738.314


Depth (m)	Area (m²)	Volume (m³)
0.000	1395.94	0.000
0.100	1461.50	142.860
0.200	1529.04	292.374
0.300	1597.24	448.676
0.400	1666.09	611.830
0.500	1735.59	781.902
0.600	1805.74	958.957
0.700	1876.55	1143.060
0.800	1948.01	1334.278
0.900	2020.13	1532.674
1.000	2092.90	1738.314
1.100	2166.32	1951.264
1.200	2240.39	2171.589
1.300	2334.37	2400.311

Advanced

Perimeter	Circular
Length (m)	100.897
Friction Scheme	Manning's n
n	0.35

Project: Land at Coombe Farm Sayers Common Catchment 1 (Northern Catchment)		Date: 26/09/2025			
Report Details: Type: Inflow Summary Storm Phase: Catchment 1		Designed by: SF	Checked by: COH		Approved By: MDW
		Company Address: Paul Basham Associates			


Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
864.91m - 1.019	S27		Time of Concentration	0.086	100	0	100	0.086
1433.95m - 1.009	Basin 2		Time of Concentration	0.143	100	0	100	0.143
1891.93m - 1.022	S30		Time of Concentration	0.189	100	0	100	0.189
2801.16m - 3.000	Basin 1		Time of Concentration	0.280	100	0	100	0.280
4104.28m - 1.022	S30		Time of Concentration	0.410	75	0	75	0.308
11026.47m - 1.022	S30		Time of Concentration	1.103	75	0	75	0.827
11618.50m - 1.009	Basin 2		Time of Concentration	1.162	75	0	75	0.871
15586.88m - 3.000	Basin 1		Time of Concentration	1.559	75	0	75	1.169
TOTAL		0.0		4.933				3.874

Project: Land at Coombe Farm Sayers Common Catchment 1 (Northern Catchment)		Date: 26/09/2025			
Report Details: Type: Stormwater Controls Summary Storm Phase: Catchment 1		Designed by: SF	Checked by: COH		Approved By: MDW
		Company Address: Paul Basham Associates			



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth


Stormwater Control	Storm Event	Max. Avg. Level (m)	Max. Avg. Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Basin 2	FEH: 2 years: +0 %: 240 mins: Summer	27.025	0.425	72.6	165.808	0.000	18.2		73.115	OK
Basin 3	FEH: 2 years: +0 %: 1440 mins: Summer	22.447	0.627	23.2	355.040	0.000	15.5	395	42.806	OK
Basin 4	FEH: 2 years: +0 %: 1440 mins: Summer	22.444	0.744	42.6	793.220	0.000	24.7	590	41.702	OK
Basin 1	FEH: 2 years: +0 %: 2880 mins: Summer	27.529	0.329	18.0	494.623	0.000	3.1		71.546	OK

Project: Land at Coombe Farm Sayers Common Catchment 1 (Northern Catchment)		Date: 26/09/2025			
Report Details: Type: Stormwater Controls Summary Storm Phase: Catchment 1		Designed by: SF	Checked by: COH		Approved By: MDW
		Company Address: Paul Basham Associates			



FEH: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Avg. Depth


Stormwater Control	Storm Event	Max. Avg. Level (m)	Max. Avg. Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Basin 2	FEH: 30 years: +40 %: 240 mins: Summer	27.532	0.932	187.2	482.195	0.000	26.9	180	21.814	OK
Basin 3	FEH: 30 years: +40 %: 1440 mins: Summer	22.690	0.870	27.3	523.195	0.000	25.1	810	15.717	OK
Basin 4	FEH: 30 years: +40 %: 1440 mins: Summer	22.684	0.984	71.6	1116.987	0.000	38.8	925	17.907	OK
Basin 1	FEH: 30 years: +40 %: 1440 mins: Winter	27.977	0.777	45.3	1289.406	0.000	4.8		25.824	OK

Project: Land at Coombe Farm Sayers Common Catchment 1 (Northern Catchment)		Date: 26/09/2025			
Report Details: Type: Stormwater Controls Summary Storm Phase: Catchment 1		Designed by: SF	Checked by: COH		Approved By: MDW
		Company Address: Paul Basham Associates			

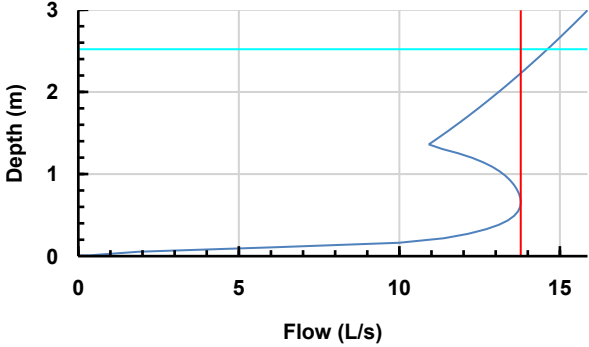



FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By:
Max. Avg. Depth

Stormwater Control	Storm Event	Max. Avg. Level (m)	Max. Avg. Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Basin 2	FEH: 100 years: +45 %: 360 mins: Summer	27.740	1.140	182.6	651.028	0.000	29.7	330	-5.562	Flood Risk
Basin 3	FEH: 100 years: +45 %: 1440 mins: Summer	22.877	1.057	30.4	665.456	0.000	26.6	1050	-7.200	Flood Risk
Basin 4	FEH: 100 years: +45 %: 1440 mins: Summer	22.872	1.172	88.5	1393.865	0.000	38.9	1175	-2.442	Flood Risk
Basin 1	FEH: 100 years: +45 %: 2880 mins: Winter	28.224	1.024	35.1	1788.499	0.000	5.5		-2.887	Flood Risk

Project: Land at Coombe Farm Sayers Common Catchment 2 (Southern Catchment)		Date: 26/09/2025			
		Designed by: SF	Checked by: COH		Approved By: MDW
Report Details: Type: Junctions Storm Phase: Catchment 2		Company Address: Paul Basham Associates			

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
S52	Outlet	S52-S53	Free Discharge
	Outlet	S51-S52	Hydro-Brake®
	Invert Level (m)	26.380	
	Design Depth (m)	2.520	
	Design Flow (L/s)	14.6	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	<input checked="" type="checkbox"/>	
	Unit Reference	SHE-0150-1460-2520-1460	
S51			

Project: Land at Coombe Farm Sayers Common Catchment 2 (Southern Catchment)		Date: 26/09/2025			
Report Details: Type: Stormwater Controls Storm Phase: Catchment 2		Designed by: SF	Checked by: COH		Approved By: MDW
		Company Address: Paul Basham Associates			



Basin 5

Type : Pond


Dimensions

Exceedance Level (m)	29.100
Depth (m)	1.500
Base Level (m)	27.600
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	5.498
Total Volume (m³)	1481.130


Depth (m)	Area (m²)	Volume (m³)
0.000	825.09	0.000
0.100	890.23	85.745
0.200	957.25	178.099
0.300	1024.83	277.183
0.400	1092.98	383.055
0.500	1161.69	495.771
0.600	1230.96	615.387
0.700	1300.80	741.958
0.800	1371.20	875.543
0.900	1442.16	1016.196
1.000	1513.69	1163.974
1.100	1585.78	1318.933
1.200	1658.43	1481.130
1.300	1731.65	1650.621
1.400	1805.43	1827.462
1.500	1878.53	2011.648

Advanced

Perimeter	Circular
Length (m)	113.982
Friction Scheme	Manning's n
n	0.35

Project: Land at Coombe Farm Sayers Common Catchment 2 (Southern Catchment)		Date: 26/09/2025			
Report Details: Type: Inflow Summary Storm Phase: Catchment 2		Designed by: SF	Checked by: COH		Approved By: MDW
		Company Address: Paul Basham Associates			


Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
2425.38m - 1.005	Basin 5		Time of Concentration	0.243	100	0	100	0.243
17510.29m - 1.006	Basin 5		Time of Concentration	1.751	75	0	75	1.313
TOTAL		0.0		1.994				1.556

Project: Land at Coombe Farm Sayers Common Catchment 2 (Southern Catchment)		Date: 26/09/2025			
Report Details: Type: Stormwater Controls Summary Storm Phase: Catchment 2		Designed by: SF	Checked by: COH		Approved By: MDW
		Company Address: Paul Basham Associates			



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth


Stormwater Control	Storm Event	Max. Avg. Level (m)	Max. Avg. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Basin 5	FEH: 2 years: +0 %: 240 mins: Summer	27.960	0.360	111.3	340.093	0.000	24.9		77.038	OK

Project: Land at Coombe Farm Sayers Common Catchment 2 (Southern Catchment)		Date: 26/09/2025			
Report Details: Type: Stormwater Controls Summary Storm Phase: Catchment 2		Designed by: SF	Checked by: COH		Approved By: MDW
		Company Address: Paul Basham Associates			



FEH: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. Avg. Level (m)	Max. Avg. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Basin 5	FEH: 30 years: +40 %: 600 mins: Winter	28.517	0.917	102.3	1041.423	0.000	38.9	415	29.687	OK

Project: Land at Coombe Farm Sayers Common Catchment 2 (Southern Catchment)		Date: 26/09/2025			
Report Details: Type: Stormwater Controls Summary Storm Phase: Catchment 2		Designed by: SF	Checked by: COH		Approved By: MDW
		Company Address: Paul Basham Associates			



FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. Avg. Level (m)	Max. Avg. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Basin 5	FEH: 100 years: +45 %: 600 mins: Winter	28.761	1.161	126.4	1416.830	0.000	47.7		4.341	OK