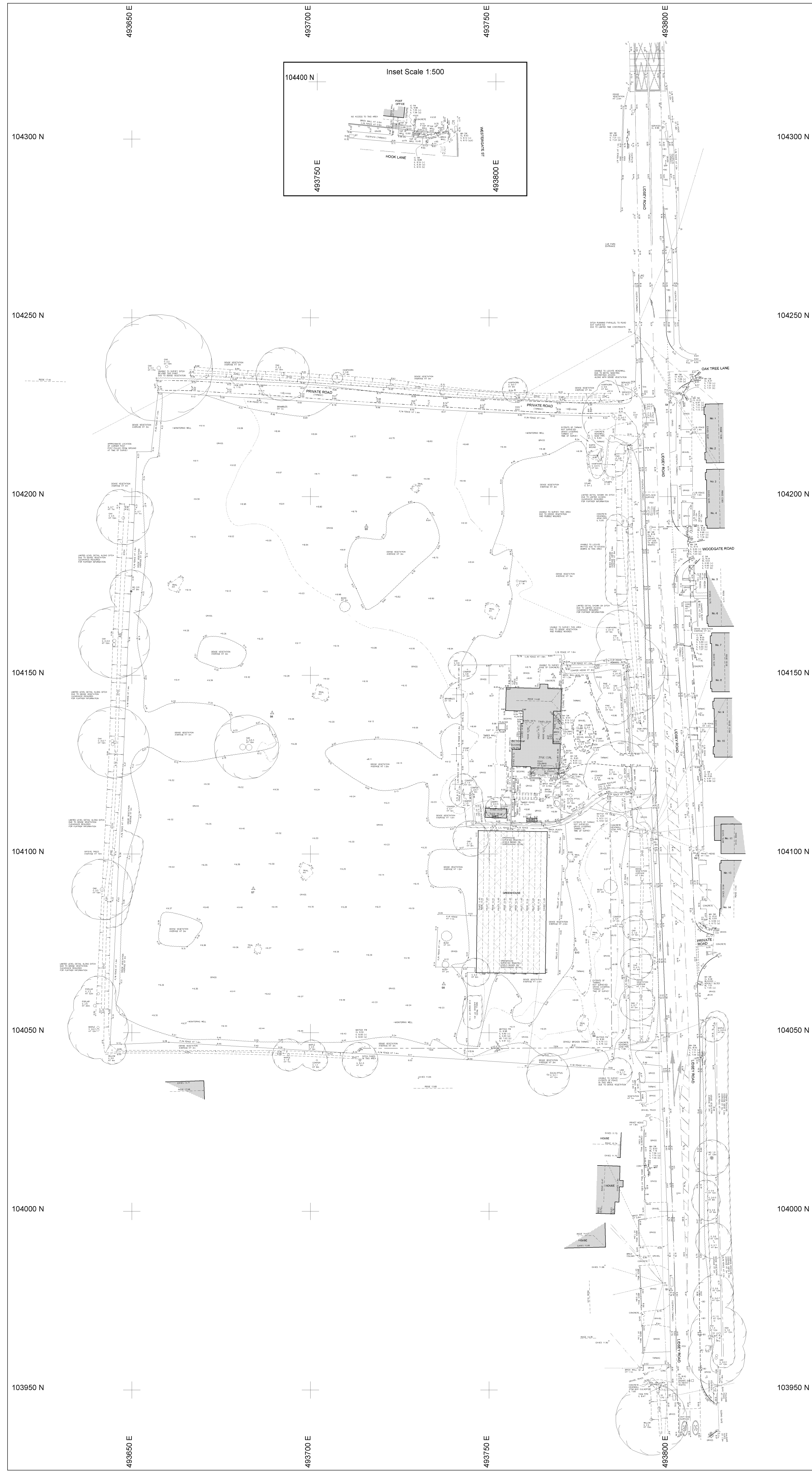




- Notes:
- GRID AND LEVELS BASED ON ORDNANCE DATUM. DERIVED FROM THE NATIONAL GNSS NETWORK. LOCAL SCALE FACTOR (0.99971) APPLIED.
 - DRAINAGE INFORMATION HAS BEEN DETERMINED WITHOUT MAN ENTRY INTO CHAMBERS AND WHILST EVERY EFFORT HAS BEEN MADE TO CORRECTLY IDENTIFY THIS INFORMATION, IT SHOULD ALWAYS BE CHECKED IN AREAS THAT ARE CRITICAL TO THE FUTURE PROPOSAL.
 - ALL SEWERS ARE PRESUMED TO BE STRAIGHT BETWEEN CHAMBERS, WITH ROUTES /CONNECTIVITY OBTAINED USING ACOUSTIC METHODS ONLY. THESE ARE TO BE CONSIDERED ASSUMED AND SHOULD BE INVESTIGATED FURTHER IN CRITICAL AREAS.
 - TREE AND HEDGE SPECIES HAVE BEEN IDENTIFIED AS ACCURATELY AS POSSIBLE BUT SHOULD BE CROSS CHECKED IN CRITICAL AREAS.

Coordinate Table				
Station	Description	Easting	Northing	Level
J3	ROAD NAIL	493768.236	104149.535	8.860
J4	ROAD NAIL	493778.099	104147.921	8.899
J5	ROAD NAIL	493783.019	104134.628	8.805
S1	ROAD NAIL	493800.903	103978.083	8.838
S2	ROAD NAIL	493809.226	104099.716	8.405
S3	ROAD NAIL	493804.154	104173.396	8.130
S4	ROAD NAIL	493800.726	104226.417	8.227
S5	PEG	493715.660	104191.694	8.813
S6	PEG	493889.293	104139.466	9.275
S7	PEG	493684.033	104090.276	9.374
S8	PEG	493737.321	104063.621	9.196
S9	ROAD NAIL	493779.184	104049.861	8.963
S10	ROAD NAIL	493774.205	104073.335	9.015

TOPOGRAPHICAL KEY

SURVEY STATION 5

BANKING

HEDGE SPREADS

WOODLAND CANOPY

ARROW ON STEPS / RAMP INDICATES DIRECTION UPWARDS

TREES

GATE

KERB CHANNEL

ROAD UNKERBED

FOOTPATH

CHANGE IN SURFACE

FENCE

WALL

OVERHEAD ELECTRIC

OVERHEAD TELECOM

FOUL SEWER

SURFACE SEWER

P-TRAP

BACK DROP (EXTERNAL)

BACK DROP (INTERNAL)

BUILDING

OPEN SIDED BUILDING

OVERHANG / CANOPY

GLASSHOUSE

CONTOUR

SPOT LEVEL

SONAR LEVEL

BORE HOLE

TRIAL HOLE

FENCE ABBREVIATIONS

GENERAL ABBREVIATIONS

IRON RAILINGS

LARCH LAP FENCE

POST AND RAIL FENCE

POST AND WIRE FENCE

WIRE MESH FENCE

1 Marholes 7001, 7002, 7003, 7101 surveyed and 2 no tree gifts checked within property boundary. MK CP NS 16/01/2020

Revision Description Surv by Check by Appr by Date

0m 5 10 15 20 25 30 35 40 45 50 55

mksurveys

Tel 01908 565561
Tel 01908 564679
Tel 0115 2549127
Tel 01384 404203
Tel 01403 243162

Milton Keynes
Oxford
Epsom
Weybridge
Horsesham

enquiries@mksurveys.co.uk
enquiries@mksurveys.co.uk
enquiries@mksurveys.co.uk
enquiries@mksurveys.co.uk
enquiries@mksurveys.co.uk

www.mksurveys.com www.surveys4bim.co.uk

THAKEHAM

**Lidsey Road
Woodgate
West Sussex**

Topographical Survey

Scale: 1:500 Sheet Size: A1 Sheet Number: 1 Date: August 2019

Project Number: 27568 Rev: 1 Surveyed by: RG / JM Checked by: AJ Approved by: CP

THE SURVEY AGENCY **SSP** **ENR**

Appendix J Calculations

RGP Design Limited		Page 1
2 West Barn Norton Lane Chichester PO20 3AF	Land at Lidsey Road, Woodgate Greenfield Run-Off	
Date 28/01/2020 File	Designed by SPB Checked by MJA	
Innovyze Source Control 2018.1		

ICP SUDS Mean Annual Flood

Input

Return Period (years)	100	Soil	0.400
Area (ha)	2.530	Urban	0.000
SAAR (mm)	764	Region Number	Region 7

Results l/s

QBAR Rural	9.5
QBAR Urban	9.5
Q100 years	30.4
Q1 year	8.1
Q30 years	21.6
Q100 years	30.4

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RGP Design Limited		Page 1
2 West Barn Norton Lane Chichester PO20 3AF	Land at Lidsey Road, Woodgate Greenfield Volume	
Date 28/01/2020 File	Designed by SPB Checked by MJA	
Innovyze Source Control 2018.1		

Greenfield Runoff Volume

FSR Data

Return Period (years)	100
Storm Duration (mins)	360
Region	England and Wales
M5-60 (mm)	19.400
Ratio R	0.337
Areal Reduction Factor	1.00
Area (ha)	2.530
SAAR (mm)	764
CWI	113.258
Urban	0.000
SPR	37.000

Results

Percentage Runoff (%)	38.36
Greenfield Runoff Volume (m ³)	631.983

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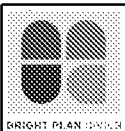
Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	100	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	0.75
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	19.400	Minimum Backdrop Height (m)	0.500
Ratio-R	0.333	Preferred Cover Depth (m)	0.800
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	x

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	1	3	28.347	0.600	8.875	8.725	0.150	189.0	300	5.41	50.0
2.000	2	3	5.000	0.600	8.750	8.700	0.050	100.0	225	5.06	50.0
1.001	3	4	24.510	0.600	8.550	8.475	0.075	326.8	300	5.89	50.0
1.002	4	6	10.401	0.600	8.475	8.400	0.075	138.7	300	6.02	50.0
3.000	5	6	9.770	0.600	8.450	8.400	0.050	195.4	225	5.17	50.0
1.003	6	7	11.392	0.600	8.250	8.200	0.050	227.8	300	6.20	50.0
1.004	7	8	29.100	0.600	8.125	8.075	0.050	582.0	300	6.95	50.0
1.005	8	9	36.675	0.600	8.075	8.025	0.050	733.5	375	7.88	50.0
1.006	9	9_OUT	8.987	0.600	8.025	8.000	0.025	359.5	375	8.04	50.0
4.000	10	11	39.333	0.600	8.575	8.500	0.075	524.4	225	6.16	50.0
4.001	11	13	16.732	0.600	8.500	8.450	0.050	324.7	225	6.56	50.0
5.000	12	13	9.784	0.600	8.900	8.825	0.075	130.5	150	5.19	50.0
4.002	13	13_OUT	8.108	0.600	8.450	8.400	0.050	162.2	225	6.69	50.0
6.000	14	15	13.001	0.600	8.000	7.950	0.050	260.0	600	5.14	50.0
6.001	15	16	41.999	0.600	7.750	7.700	0.050	840.0	600	5.99	50.0
6.002	16	16_OUT	8.342	0.600	7.700	7.675	0.025	333.7	600	6.09	50.0
7.000	17	18	35.000	0.600	8.900	8.500	0.400	87.5	300	5.35	50.0
7.001	18	18_OUT	22.001	0.600	8.500	8.400	0.100	220.0	300	5.69	50.0
8.000	19	20	12.459	0.600	9.150	8.700	0.450	27.7	225	5.08	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	1.140	80.6	13.6	0.625	0.575	0.100	0.0	83	0.854
2.000	1.307	52.0	6.8	0.625	0.675	0.050	0.0	55	0.911
1.001	0.864	61.1	23.0	0.750	0.725	0.170	0.0	127	0.805
1.002	1.333	94.2	23.0	0.725	0.900	0.170	0.0	100	1.106
3.000	0.932	37.0	8.7	0.825	0.975	0.064	0.0	74	0.765
1.003	1.037	73.3	33.1	1.050	1.300	0.244	0.0	141	1.010
1.004	0.644	45.6	42.3	1.375	1.625	0.312	0.0	229	0.729
1.005	0.661	73.0	42.3	1.550	1.200	0.312	0.0	205	0.684
1.006	0.950	104.9	64.0	1.200	1.225	0.472	0.0	212	0.995
4.000	0.564	22.4	8.7	1.200	1.025	0.064	0.0	97	0.529
4.001	0.709	28.2	13.3	1.025	1.075	0.098	0.0	109	0.698
5.000	0.878	15.5	13.3	0.700	0.775	0.098	0.0	107	0.985
4.002	1.024	40.7	26.6	1.075	1.125	0.196	0.0	132	1.088
6.000	1.505	425.6	5.8	0.900	0.950	0.043	0.0	48	0.545
6.001	0.832	235.2	9.2	1.150	0.700	0.068	0.0	80	0.410
6.002	1.327	375.3	9.2	0.700	0.725	0.068	0.0	64	0.571
7.000	1.681	118.8	5.4	0.800	0.700	0.040	0.0	43	0.861
7.001	1.056	74.6	10.8	0.700	1.100	0.080	0.0	77	0.759
8.000	2.496	99.2	6.8	0.625	0.875	0.050	0.0	40	1.449



Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
8.001	20	22	20.000	0.600	8.700	8.633	0.067	298.5	225	5.53	50.0
9.000	21	22	12.000	0.600	8.950	8.900	0.050	240.0	100	5.41	50.0
8.002	22	22_OUT	18.450	0.600	8.825	8.625	0.200	92.2	300	5.71	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
8.001	0.751	29.9	15.9	0.875	0.942	0.117	0.0	116	0.762
9.000	0.492	3.9	1.8	0.750	0.800	0.013	0.0	47	0.480
8.002	1.637	115.7	17.6	0.675	0.875	0.130	0.0	79	1.194

Simulation Settings

Rainfall Methodology	FSR	Skip Steady State	x
FSR Region	England and Wales	Drain Down Time (mins)	240
M5-60 (mm)	19.400	Additional Storage (m³/ha)	20.0
Ratio-R	0.333	Check Discharge Rate(s)	x
Winter CV	1.000	Check Discharge Volume	x
Analysis Speed	Normal		

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
100	40	0	0

Node 18 Online Orifice Control

Flap Valve	x	Invert Level (m)	8.500	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.225		

Node 14 Online Orifice Control

Flap Valve	x	Invert Level (m)	8.000	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.600		

Node 15 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	7.750	Product Number	CTL-SHE-0095-5000-1700-5000
Design Depth (m)	1.700	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.0	Min Node Diameter (mm)	1200

Node 9 OUT Online Orifice Control

Flap Valve	x	Invert Level (m)	8.000	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.375		



Node 13 OUT Online Orifice Control

Flap Valve	x	Invert Level (m)	8.038	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.375		

Node 22 OUT Online Orifice Control

Flap Valve	x	Invert Level (m)	8.038	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.300		

Node 14 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Main Channel Length (m)	38.000
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	8.000	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.025

Inlets

22_OUT	18_OUT	9_OUT	13_OUT
--------	--------	-------	--------

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	356.0	0.0	1.350	744.0	0.0

Node 12 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	9.300	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	6	Depth (m)	0.450
Safety Factor	2.0	Width (m)	4.100	Inf Depth (m)	
Porosity	1.00	Length (m)	52.000		

Node 2 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	9.150	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	0.450
Safety Factor	2.0	Width (m)	5.600	Inf Depth (m)	
Porosity	1.00	Length (m)	24.000		

Node 5 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	9.050	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	0.450
Safety Factor	2.0	Width (m)	8.700	Inf Depth (m)	
Porosity	1.00	Length (m)	27.800		

Node 19 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	9.550	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.450
Safety Factor	2.0	Width (m)	6.000	Inf Depth (m)	
Porosity	1.00	Length (m)	40.000		

Node 17 Carpark Storage Structure

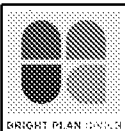
Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	9.550	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.450
Safety Factor	2.0	Width (m)	4.500	Inf Depth (m)	
Porosity	1.00	Length (m)	26.900		



Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 76.24%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	9	9.353	0.478	67.8	1.5748	0.0000	SURCHARGED
960 minute winter	2	930	9.316	0.566	2.9	22.0520	0.0000	FLOOD RISK
960 minute winter	3	930	9.317	0.767	8.5	1.1594	0.0000	FLOOD RISK
960 minute winter	4	930	9.315	0.840	8.1	0.9495	0.0000	FLOOD RISK
960 minute winter	5	930	9.316	0.866	8.7	63.0848	0.0000	FLOOD RISK
960 minute winter	6	930	9.319	1.069	12.0	1.3675	0.0000	FLOOD RISK
960 minute winter	7	930	9.316	1.191	15.4	2.3140	0.0000	SURCHARGED
960 minute winter	8	930	9.316	1.241	14.9	1.7764	0.0000	SURCHARGED
960 minute winter	9	930	9.315	1.290	22.9	4.4662	0.0000	FLOOD RISK
960 minute winter	9_OUT	900	9.319	1.319	22.7	1.4921	0.0000	OK
15 minute winter	10	11	9.604	1.029	43.4	2.0869	0.0000	SURCHARGED
15 minute winter	11	11	9.332	0.832	61.7	1.3930	0.0000	SURCHARGED
15 minute winter	12	13	9.504	0.604	66.4	9.5074	0.0000	FLOOD RISK
720 minute winter	13	705	9.312	0.862	12.0	0.9751	0.0000	SURCHARGED
960 minute winter	13_OUT	930	9.316	1.278	19.1	1.4459	0.0000	OK
960 minute winter	14	945	9.310	1.310	226.2	3.0647	0.0000	FLOOD RISK
960 minute winter	15	915	9.233	1.483	86.8	3.0455	0.0000	FLOOD RISK
960 minute winter	16	915	7.748	0.048	4.7	0.0851	0.0000	OK
960 minute winter	16_OUT	915	7.716	0.041	4.8	0.0000	0.0000	OK
960 minute winter	17	915	9.320	0.420	2.9	0.7804	0.0000	SURCHARGED
960 minute winter	18	915	9.323	0.823	4.2	1.5887	0.0000	FLOOD RISK
960 minute winter	18_OUT	915	9.310	1.272	10.1	1.4388	0.0000	OK
15 minute winter	19	11	9.559	0.409	33.9	1.1929	0.0000	SURCHARGED
15 minute winter	20	11	9.505	0.805	74.6	1.8910	0.0000	FLOOD RISK
960 minute winter	21	885	9.312	0.362	0.7	0.5199	0.0000	SURCHARGED

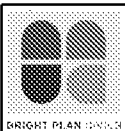
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	3	65.7	1.045	0.815	1.9962	
960 minute winter	2	2.000	3	2.5	0.647	0.048	0.1989	
960 minute winter	3	1.001	4	8.1	0.658	0.132	1.7260	
960 minute winter	4	1.002	6	8.1	0.722	0.086	0.7324	
960 minute winter	5	3.000	6	-6.2	0.499	-0.167	0.3886	
960 minute winter	6	1.003	7	11.9	0.574	0.162	0.8022	
960 minute winter	7	1.004	8	14.9	0.366	0.327	2.0492	
960 minute winter	8	1.005	9	14.8	0.306	0.203	4.0451	
960 minute winter	9	1.006	9_OUT	22.7	0.392	0.216	0.9912	
960 minute winter	9_OUT	Flow through pond	14	49.6	0.038	0.002	699.3638	
15 minute winter	10	4.000	11	40.1	1.008	1.787	1.5643	
15 minute winter	11	4.001	13	61.2	1.538	2.170	0.6655	
15 minute winter	12	5.000	13	36.4	2.069	2.348	0.1722	
720 minute winter	13	4.002	13_OUT	11.9	0.772	0.292	0.3225	
960 minute winter	13_OUT	Flow through pond	14	49.6	0.038	0.002	699.3638	
960 minute winter	14	6.000	15	63.1	0.519	0.148	3.6621	
960 minute winter	15	Hydro-Brake®	16	4.7				
960 minute winter	16	6.002	16_OUT	4.8	0.504	0.013	0.0786	310.4
960 minute winter	17	7.000	18	2.3	0.277	0.019	2.4647	
960 minute winter	18	7.001	18_OUT	5.7	0.498	0.076	1.5493	
960 minute winter	18_OUT	Flow through pond	14	49.6	0.038	0.002	699.3638	
15 minute winter	19	8.000	20	33.5	0.841	0.337	0.4955	
15 minute winter	20	8.001	22	71.5	1.798	2.393	0.7955	
960 minute winter	21	9.000	22	0.7	0.392	0.181	0.0939	



Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 75.24%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
960 minute winter	22	945	9.314	0.681	6.6	0.7702	0.0000	SURCHARGED
960 minute winter	22_OUT	885	9.321	1.283	8.8	1.4511	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
960 minute winter	22	8.002	22_OUT	6.6	0.856	0.057	1.2992	
960 minute winter	22_OUT	Flow through pond	14	49.6	0.038	0.002	699.3638	



Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	100	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	40	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	19.400	Minimum Backdrop Height (m)	0.200
Ratio-R	0.333	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	1	1_OUT	65.000	0.600	7.600	7.300	0.300	216.7	450	5.79	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	1.377	219.0	24.7	1.200	0.750	0.130	0.0	102	0.925

Simulation Settings

Rainfall Methodology	FSR	Skip Steady State	x
FSR Region	England and Wales	Drain Down Time (mins)	240
M5-60 (mm)	19.400	Additional Storage (m³/ha)	20.0
Ratio-R	0.333	Check Discharge Rate(s)	x
Winter CV	1.000	Check Discharge Volume	x
Analysis Speed	Normal		

Storm Durations

15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440

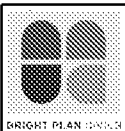
Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	40	10	0
30	40	10	0
100	40	10	0

Node 1 OUT Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	7.450	Product Number	CTL-SHE-0058-1500-1000-1500
Design Depth (m)	1.000	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	1.5	Min Node Diameter (mm)	1200

Node 1 OUT Carpark Storage Structure

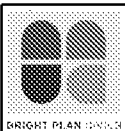
Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	8.000	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	0.450
Safety Factor	2.0	Width (m)	6.000	Inf Depth (m)	
Porosity	0.95	Length (m)	46.500		



Results for 1 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 75.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
240 minute winter	1	220	8.073	0.473	7.1	1.3553	0.0000	SURCHARGED
240 minute winter	1_OUT	220	8.073	0.773	7.1	14.2777	0.0000	OK

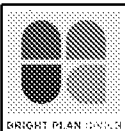
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
240 minute winter	1	1.000	1_OUT	7.1	0.299	0.033	10.2988	
240 minute winter	1_OUT	Hydro-Brake®		1.4				31.5



Results for 30 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 76.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
360 minute winter	1	352	8.257	0.657	11.8	1.8823	0.0000	SURCHARGED
360 minute winter	1_OUT	352	8.257	0.957	11.7	62.9454	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
360 minute winter	1	1.000	1_OUT	11.7	0.248	0.053	10.2988	
360 minute winter	1_OUT	Hydro-Brake®		1.4				44.4



Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 76.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
480 minute winter	1	464	8.368	0.768	12.3	2.1985	0.0000	SURCHARGED
480 minute winter	1_OUT	464	8.368	1.068	12.2	92.2534	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
480 minute winter	1	1.000	1_OUT	12.2	0.253	0.056	10.2988	
480 minute winter	1_OUT	Hydro-Brake®		1.4				56.0