

AS BUILT INFORMATION
Site Name: Stakers Farm, Yapton



Private Drive (Plots 20-21) – Type 5B Construction

Details	Units	As Recording	Built	Notes <i>Including justifications for varying the design</i>
Has the drive been surveyed in GPS and CAD .dwg format?	N/A	☒ Yes / No		State Drawing Number
Formation Level	mAOD	6.366 6.349		
Terram Geotextile installed?	N/A	☒ Yes / No		Supporting Photos
Thickness of Sub-base	mm	395		
Sub-base material and reference to import ticket	N/A	4/20		Supplier name and details. Import Ticket Reference Number.

Private Drive (Plots 22) – Type 5B Construction

Details	Units	As Recording	Built	Notes <i>Including justifications for varying the design</i>
Has the drive been surveyed in GPS and CAD .dwg format?	N/A	☒ Yes / No		State Drawing Number
Formation Level	mAOD	6.073 6.061		
Terram Geotextile installed?	N/A	☒ Yes / No		Supporting Photos
Thickness of Sub-base	mm	395		
Sub-base material and reference to import ticket	N/A	4/20		Supplier name and details. Import Ticket Reference Number.

Private Drive (Plots 25-26) – Type 5B Construction

Details	Units	As Recording	Built	Notes <i>Including justifications for varying the design</i>
Has the drive been surveyed in GPS and CAD .dwg format?	N/A	☒ Yes / No		State Drawing Number
Formation Level	mAOD	5876 5856		
Terram Geotextile installed?	N/A	☒ Yes / No		Supporting Photos
Thickness of Sub-base	mm	395		
Sub-base material and reference to import ticket	N/A	4/20		Supplier name and details. Import Ticket Reference Number.

Private Drive (Plots 27-28) – Type 5B Construction

Details	Units	As Recording	Built	Notes <i>Including justifications for varying the design</i>
Has the drive been surveyed in GPS and CAD .dwg format?	N/A	☒ Yes / No		State Drawing Number
Formation Level	mAOD	6.011 6.068 6.059		
Terram Geotextile installed?	N/A	☒ Yes / No		Supporting Photos
Thickness of Sub-base	mm	395		
Sub-base material and reference to import ticket	N/A	4/20		Supplier name and details. Import Ticket Reference Number.











Odyssey evidence

ACCESS DRIVE BETWEEN PLOTS 14 -20



ACCESS DRIVE BETWEEN PLOTS 23-28
SHOWING CORE DRILLED BASE COURSE



DRIVE BETWEEN PLOTS 20-21
SHOWING CORE DRILLED BASE COURSE



APPENDIX D

Pervious Pavement Calculations

P:119-156 - Land at Stakers Farm, YaptonTech\Acad\Figures\YAP-130-SK008.dwg



HATCHED AREA TO HAVE EXTENDED SUB-BASE 2m BEYOND KERBLINE AS PER YAP-180-035 ROAD TYPE 3 DETAIL TO AID IN HALF-DISCHARGE TIMES FROM THE PERMEABLE PAVING SYSTEM.

The Steddles

NOTES

1. ALL AS BUILT INFORMATION SUPPLIED BY THE CLIENT.

AREAS WHERE SUB-GRADE LEVEL DISCREPANCY IS LESS THAN 50mm IN RELATION TO THE APPROVED DESIGN

AREAS WHERE SUB-GRADE LEVEL DISCREPANCY IS MORE THAN 100mm IN RELATION TO THE APPROVED DESIGN

LOCATION OF DESIGN WEIRS / CHECK DAMS. REFER TO CONTRACTOR DOCUMENTS FOR EVIDENCE OF AS-BUILT WEIRS

AS BUILT SUB-GRADE LEVEL

LEVEL OF DESIGN SUB-BASE / PERMAVOID BASE (WHERE APPLICABLE)

* NOTE FOR ROAD TYPES WITH SUB-BASE INCORPORATING GEOCELLULAR UNITS: FOR SUB-GRADE DESIGN LEVEL DEDUCT 0.4m FROM THE INDICATED SUB-BASE LEVELS

Rev	Amendments	Dm	Chk	App	Date

ODYSSEY

Tuscany House
White Hart Lane
Basingstoke
Hampshire RG21 4AF

Telephone: 01256 331144
Fax: 01256 331134
E: info@odysseyconsult.co.uk
W: www.odysseyconsult.co.uk

Job Title

LAND AT STAKERS FARM,
YAPTON

Drawing Title

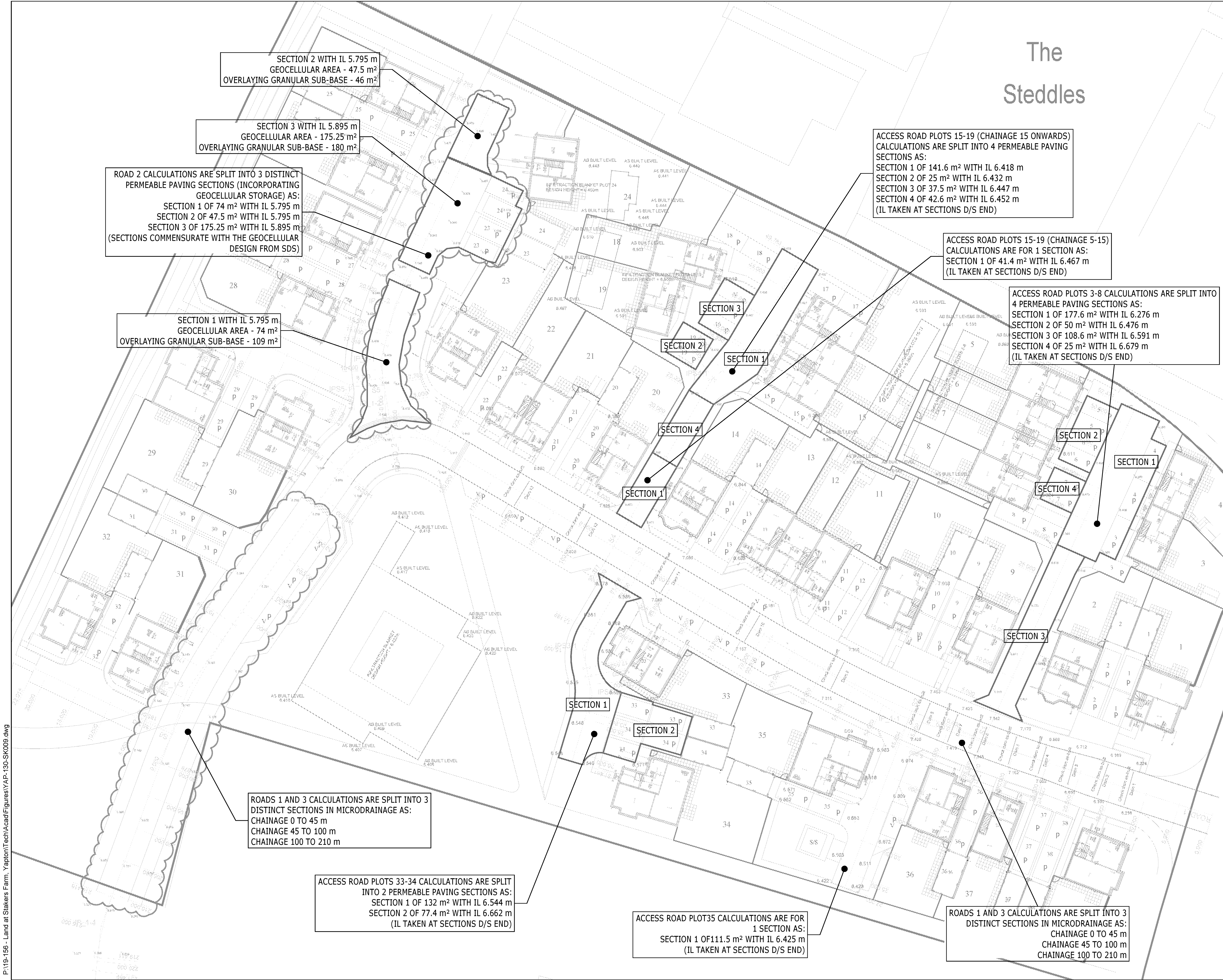
AS-BUILT (38 UNITS)
PERVIOUS PAVEMENT SUB-GRADE

Client

DANDARA LIMITED
(SOUTHERN)

Scale	1:250 @A1	Date	JAN 22	Designed	AK
Drawn	AK	Checked	SW	Approved	SW
Job No	19-156	Drawing No	YAP-130-SK008	Rev	-

ARUN DISTRICT COUNCIL V1902500C



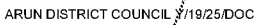
The Steddles

- NOTES
1. AS BUILT LEVEL INFORMATION SUPPLIED BY THE CLIENT.
 2. INFILTRATION BLANKET AS-BUILT LEVELS FOR PLOTS 5-8, 15-17, 18-19, 24 AND PUBLIC OPEN SPACE ARE PROVIDED FOR THE TOP / SOFFIT OF STRUCTURE.
 3. CHECK DAM LEVELS ARE PROVIDED FOR THE CHECK DAM CREST.

×6.533 AS BUILT LEVEL

AREAS WHERE AS-BUILT LEVELS ARE PROVIDED FOR THE BOTTOM OF CAPPING LAYER. THICKNESS OF 350 mm OF CAPPING MUST BE ADDED TO OBTAIN SUB-BASE LEVELS

Rev	Amendments	Dm	Chk	App	Date
ODYSSEY Tuscany House White Hart Lane Bangalore Hampshire RG21 4AF Telephone: 01266 331144 Fax: 01266 331134 E: info@odysseyconsult.co.uk W: www.odysseyconsult.co.uk					
Job Title					
LAND AT STAKERS FARM, YAPTON					
Drawing Title					
AS-BUILT (38 UNITS) PERM PAVEMENT CALCULATIONS					
Client					
DANDARA LIMITED (SOUTHERN)					
Scale	Date	Designed			
1:250 @A1	APR 22				
Drawn	Checked	Approved			
	RS	RS			
Job No	Drawing No	Rev			
19-156	YAP-130-SK009				



Odyssey		Page 1																								
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 0 to 45																									
Date 19/04/2022 12:58 File Road 1_dams 1 to 8.MDX	Designed by WindesPC5 Checked by																									
Innovyze	Network 2020.1.3																									
<u>Time Area Diagram for Storm at outfall (pipe 1.001)</u> <table><tr><td>Time (mins)</td><td>Area (ha)</td><td>Time (mins)</td><td>Area (ha)</td></tr><tr><td>0-4</td><td>0.003</td><td>4-8</td><td>0.001</td></tr></table> Total Area Contributing (ha) = 0.004 Total Pipe Volume (m³) = 3.223 <u>Time Area Diagram at outfall (pipe 2.001)</u> <table><tr><td>Time (mins)</td><td>Area (ha)</td><td>Time (mins)</td><td>Area (ha)</td></tr><tr><td>0-4</td><td>0.003</td><td>4-8</td><td>0.001</td></tr></table> Total Area Contributing (ha) = 0.004 Total Pipe Volume (m³) = 3.441 <u>Time Area Diagram at outfall (pipe 3.001)</u> <table><tr><td>Time (mins)</td><td>Area (ha)</td><td>Time (mins)</td><td>Area (ha)</td></tr><tr><td>0-4</td><td>0.003</td><td>4-8</td><td>0.001</td></tr></table> Total Area Contributing (ha) = 0.004			Time (mins)	Area (ha)	Time (mins)	Area (ha)	0-4	0.003	4-8	0.001	Time (mins)	Area (ha)	Time (mins)	Area (ha)	0-4	0.003	4-8	0.001	Time (mins)	Area (ha)	Time (mins)	Area (ha)	0-4	0.003	4-8	0.001
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Innovyze	Network 2020.1.3																	
<u>Time Area Diagram at outfall (pipe 3.001)</u> Total Pipe Volume (m³) = 3.477 <u>Time Area Diagram at outfall (pipe 4.001)</u> <table><thead><tr><th>Time (mins)</th><th>Area (ha)</th><th>Time (mins)</th><th>Area (ha)</th></tr></thead><tbody><tr><td>0-4</td><td>0.003</td><td>4-8</td><td>0.001</td></tr></tbody></table> Total Area Contributing (ha) = 0.004 Total Pipe Volume (m³) = 3.366 <u>Time Area Diagram at outfall (pipe 5.001)</u> <table><thead><tr><th>Time (mins)</th><th>Area (ha)</th><th>Time (mins)</th><th>Area (ha)</th></tr></thead><tbody><tr><td>0-4</td><td>0.003</td><td>4-8</td><td>0.001</td></tr></tbody></table> Total Area Contributing (ha) = 0.004 Total Pipe Volume (m³) = 3.349			Time (mins)	Area (ha)	Time (mins)	Area (ha)	0-4	0.003	4-8	0.001	Time (mins)	Area (ha)	Time (mins)	Area (ha)	0-4	0.003	4-8	0.001
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<u>Existing Network Details for Storm</u> <table><tr><th>PN</th><th>Length (m)</th><th>Fall (m)</th><th>Slope (1:X)</th><th>I.Area (ha)</th><th>T.E. (mins)</th><th>Base Flow (l/s)</th><th>k (mm)</th><th>n</th><th>HYD SECT</th><th>DIA (mm)</th><th>Section Type</th></tr><tr><td>1.000</td><td>4.410</td><td>0.030</td><td>147.0</td><td>0.004</td><td>5.00</td><td>0.0</td><td></td><td>0.075</td><td>→ →</td><td></td><td>Porous Car Park</td></tr><tr><td>1.001</td><td>0.637</td><td>0.006</td><td>106.2</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>400</td><td>Pipe/Conduit</td></tr><tr><td>2.000</td><td>4.587</td><td>0.090</td><td>51.0</td><td>0.004</td><td>5.00</td><td>0.0</td><td></td><td>0.075</td><td>→ →</td><td></td><td>Porous Car Park</td></tr><tr><td>2.001</td><td>0.628</td><td>0.006</td><td>104.7</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>400</td><td>Pipe/Conduit</td></tr><tr><td>3.000</td><td>4.688</td><td>0.160</td><td>29.3</td><td>0.004</td><td>5.00</td><td>0.0</td><td></td><td>0.075</td><td>→ →</td><td></td><td>Porous Car Park</td></tr><tr><td>3.001</td><td>0.699</td><td>0.007</td><td>99.9</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>400</td><td>Pipe/Conduit</td></tr><tr><td>4.000</td><td>4.534</td><td>0.220</td><td>20.6</td><td>0.004</td><td>5.00</td><td>0.0</td><td></td><td>0.075</td><td>→ →</td><td></td><td>Porous Car Park</td></tr></table> <u>Network Results Table</u> <table><tr><th>PN</th><th>US/IL (m)</th><th>Σ I.Area (ha)</th><th>Σ Base Flow (l/s)</th><th>Vel (m/s)</th><th>Cap (l/s)</th></tr><tr><td>1.000</td><td>6.340</td><td>0.004</td><td>0.0</td><td>0.18</td><td>129.7</td></tr><tr><td>1.001</td><td>6.910</td><td>0.004</td><td>0.0</td><td>1.83</td><td>230.1</td></tr><tr><td>2.000</td><td>6.910</td><td>0.004</td><td>0.0</td><td>0.31</td><td>230.4</td></tr><tr><td>2.001</td><td>6.820</td><td>0.004</td><td>0.0</td><td>1.84</td><td>231.8</td></tr><tr><td>3.000</td><td>6.820</td><td>0.004</td><td>0.0</td><td>0.41</td><td>297.1</td></tr><tr><td>3.001</td><td>6.660</td><td>0.004</td><td>0.0</td><td>1.89</td><td>237.4</td></tr><tr><td>4.000</td><td>6.660</td><td>0.004</td><td>0.0</td><td>0.49</td><td>354.3</td></tr></table>												PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	1.000	4.410	0.030	147.0	0.004	5.00	0.0		0.075	→ →		Porous Car Park	1.001	0.637	0.006	106.2	0.000	0.00	0.0	0.600		o	400	Pipe/Conduit	2.000	4.587	0.090	51.0	0.004	5.00	0.0		0.075	→ →		Porous Car Park	2.001	0.628	0.006	104.7	0.000	0.00	0.0	0.600		o	400	Pipe/Conduit	3.000	4.688	0.160	29.3	0.004	5.00	0.0		0.075	→ →		Porous Car Park	3.001	0.699	0.007	99.9	0.000	0.00	0.0	0.600		o	400	Pipe/Conduit	4.000	4.534	0.220	20.6	0.004	5.00	0.0		0.075	→ →		Porous Car Park	PN	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Vel (m/s)	Cap (l/s)	1.000	6.340	0.004	0.0	0.18	129.7	1.001	6.910	0.004	0.0	1.83	230.1	2.000	6.910	0.004	0.0	0.31	230.4	2.001	6.820	0.004	0.0	1.84	231.8	3.000	6.820	0.004	0.0	0.41	297.1	3.001	6.660	0.004	0.0	1.89	237.4	4.000	6.660	0.004	0.0	0.49	354.3
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<u>Existing Network Details for Storm</u> <table><tr><th>PN</th><th>Length (m)</th><th>Fall (m)</th><th>Slope (1:X)</th><th>I.Area (ha)</th><th>T.E. (mins)</th><th>Base Flow (l/s)</th><th>k (mm)</th><th>n</th><th>HYD SECT</th><th>DIA (mm)</th><th>Section Type</th></tr><tr><td>4.001</td><td>0.705</td><td>0.007</td><td>100.7</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>400</td><td>Pipe/Conduit</td></tr><tr><td>5.000</td><td>4.512</td><td>0.240</td><td>18.8</td><td>0.004</td><td>5.00</td><td>0.0</td><td></td><td>0.075</td><td>→ →</td><td></td><td>Porous Car Park</td></tr><tr><td>5.001</td><td>1.315</td><td>0.013</td><td>101.2</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>400</td><td>Pipe/Conduit</td></tr><tr><td>6.000</td><td>4.666</td><td>0.220</td><td>21.2</td><td>0.004</td><td>5.00</td><td>0.0</td><td></td><td>0.075</td><td>→ →</td><td></td><td>Porous Car Park</td></tr><tr><td>6.001</td><td>1.509</td><td>0.015</td><td>100.6</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>400</td><td>Pipe/Conduit</td></tr><tr><td>7.000</td><td>4.026</td><td>0.240</td><td>16.8</td><td>0.004</td><td>5.00</td><td>0.0</td><td></td><td>0.075</td><td>→ →</td><td></td><td>Porous Car Park</td></tr><tr><td>7.001</td><td>0.988</td><td>0.010</td><td>98.8</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>400</td><td>Pipe/Conduit</td></tr></table> <u>Network Results Table</u> <table><tr><th>PN</th><th>US/IL (m)</th><th>Σ I.Area (ha)</th><th>Σ Base Flow (l/s)</th><th>Vel (m/s)</th><th>Cap (l/s)</th></tr><tr><td>4.001</td><td>6.440</td><td>0.004</td><td>0.0</td><td>1.88</td><td>236.3</td></tr><tr><td>5.000</td><td>6.440</td><td>0.004</td><td>0.0</td><td>0.51</td><td>356.8</td></tr><tr><td>5.001</td><td>6.200</td><td>0.004</td><td>0.0</td><td>1.88</td><td>235.8</td></tr><tr><td>6.000</td><td>6.200</td><td>0.004</td><td>0.0</td><td>0.43</td><td>274.3</td></tr><tr><td>6.001</td><td>5.980</td><td>0.004</td><td>0.0</td><td>1.88</td><td>236.5</td></tr><tr><td>7.000</td><td>5.980</td><td>0.004</td><td>0.0</td><td>0.48</td><td>327.1</td></tr><tr><td>7.001</td><td>5.740</td><td>0.004</td><td>0.0</td><td>1.90</td><td>238.6</td></tr></table>												PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	4.001	0.705	0.007	100.7	0.000	0.00	0.0	0.600		o	400	Pipe/Conduit	5.000	4.512	0.240	18.8	0.004	5.00	0.0		0.075	→ →		Porous Car Park	5.001	1.315	0.013	101.2	0.000	0.00	0.0	0.600		o	400	Pipe/Conduit	6.000	4.666	0.220	21.2	0.004	5.00	0.0		0.075	→ →		Porous Car Park	6.001	1.509	0.015	100.6	0.000	0.00	0.0	0.600		o	400	Pipe/Conduit	7.000	4.026	0.240	16.8	0.004	5.00	0.0		0.075	→ →		Porous Car Park	7.001	0.988	0.010	98.8	0.000	0.00	0.0	0.600		o	400	Pipe/Conduit	PN	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Vel (m/s)	Cap (l/s)	4.001	6.440	0.004	0.0	1.88	236.3	5.000	6.440	0.004	0.0	0.51	356.8	5.001	6.200	0.004	0.0	1.88	235.8	6.000	6.200	0.004	0.0	0.43	274.3	6.001	5.980	0.004	0.0	1.88	236.5	7.000	5.980	0.004	0.0	0.48	327.1	7.001	5.740	0.004	0.0	1.90	238.6
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type																																																																																																																																																
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Odyssey								Page 6				
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Date 19/04/2022 12:58 File Road 1_dams 1 to 8.MDX					Designed by WindesPC5 Checked by							
Innovyze					Network 2020.1.3							
<u>Manhole Schedules for Storm</u>												
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)	
Dam 8	7.435	0.495	Open Manhole	250	1.000	6.940						
2	7.419	0.509	Open Manhole	250	1.001	6.910	400	1.000	6.910			
	7.419	0.515	Open Manhole	0		OUTFALL		1.001	6.904	400		
Dam 7	7.419	0.509	Open Manhole	250	2.000	6.910						
4	7.345	0.525	Open Manhole	250	2.001	6.820	400	2.000	6.820			
	7.345	0.531	Open Manhole	0		OUTFALL		2.001	6.814	400		
Dam 6	7.322	0.502	Open Manhole	250	3.000	6.820						
6	7.162	0.502	Open Manhole	250	3.001	6.660	400	3.000	6.660			
	7.162	0.509	Open Manhole	0		OUTFALL		3.001	6.653	400		
Dam 5	7.162	0.502	Open Manhole	250	4.000	6.660						
8	7.002	0.562	Open Manhole	250	4.001	6.440	400	4.000	6.440			
	7.002	0.569	Open Manhole	0		OUTFALL		4.001	6.433	400		
Dam 4	6.950	0.490	Open Manhole	250	5.000	6.440						
10	6.590	0.490	Open Manhole	250	5.001	6.200	400	5.000	6.200			
	6.590	0.503	Open Manhole	0		OUTFALL		5.001	6.187	400		
Dam 3	6.510	0.410	Open Manhole	250	6.000	6.200						
12	6.390	0.410	Open Manhole	250	6.001	5.980	400	6.000	5.980			
	6.390	0.425	Open Manhole	0		OUTFALL		6.001	5.965	400		
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Odyssey		Page 7
Tuscany House White Hart Lane Basingstoke RG21 4AF		
Stakers Farm, Yapton - 19-156 As built - chainage 0 to 45		
Date 19/04/2022 12:58 File Road 1_dams 1 to 8.MDX		Designed by WindesPC5 Checked by
Innovyze		Network 2020.1.3

Manhole Schedules for Storm

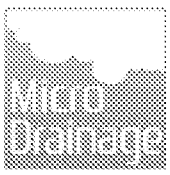
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
Dam 2	6.386	0.410	Open Manhole	250	7.000	5.980					
Dam 1	6.236	0.498	Open Manhole	250	7.001	5.740	400	7.000	5.740		
	6.238	0.508	Open Manhole	0		OUTFALL		7.001	5.730	400	

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
Dam 8	497796.258	103761.153	497796.258	103761.153	Required	
2	497800.318	103759.434	497800.318	103759.434	Required	
	497800.936	103759.589			No Entry	
Dam 7	497800.293	103759.351	497800.293	103759.351	Required	

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Odyssey					Page 8	
Tuscany House White Hart Lane Basingstoke RG21 4AF			Stakers Farm, Yapton - 19-156 As built - chainage 0 to 45			
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Innovyze			Network 2020.1.3			
<u>Manhole Schedules for Storm</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
4	497804.537	103757.610	497804.537	103757.610	Required	
	497805.138	103757.792			No Entry	
Dam 6	497804.495	103757.555	497804.495	103757.555	Required	
6	497808.906	103755.968	497808.906	103755.968	Required	
	497809.563	103756.205			No Entry	
Dam 5	497808.878	103755.905	497808.878	103755.905	Required	
8	497813.177	103754.465	497813.177	103754.465	Required	
	497813.842	103754.702			No Entry	
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Odyssey					Page 9																																																																
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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)																																																															
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Odyssey		Page 10														
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	497826.472	103750.102			No Entry											
©1982-2020 Innovyze																

Odyssey		Page 11
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 0 to 45	
Date 19/04/2022 12:58 File Road 1_dams 1 to 8.MDX	Designed by WindesPC5 Checked by	
Innovyze		Network 2020.1.3

Area Summary for Storm

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	-	-	100	0.004	0.004	0.004
1.001	-	-	100	0.000	0.000	0.000
2.000	-	-	100	0.004	0.004	0.004
2.001	-	-	100	0.000	0.000	0.000
3.000	-	-	100	0.004	0.004	0.004
3.001	-	-	100	0.000	0.000	0.000
4.000	-	-	100	0.004	0.004	0.004
4.001	-	-	100	0.000	0.000	0.000
5.000	-	-	100	0.004	0.004	0.004
5.001	-	-	100	0.000	0.000	0.000
6.000	-	-	100	0.004	0.004	0.004
6.001	-	-	100	0.000	0.000	0.000
7.000	-	-	100	0.004	0.004	0.004
7.001	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.028	0.028	0.028

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.001		7.419	6.904	0.000	0	0

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Odyssey		Page 12				
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 0 to 45					
Date 19/04/2022 12:58 File Road 1_dams 1 to 8.MDX	Designed by WindesPC5 Checked by					
Innovyze	Network 2020.1.3					
<u>Free Flowing Outfall Details for Storm</u>						
Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
2.001		7.345	6.814	0.000	0	0
<u>Free Flowing Outfall Details for Storm</u>						
Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
3.001		7.162	6.653	0.000	0	0
<u>Free Flowing Outfall Details for Storm</u>						
Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
4.001		7.002	6.433	0.000	0	0
			</			

Odyssey		Page 13				
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 0 to 45					
Date 19/04/2022 12:58 File Road 1_dams 1 to 8.MDX	Designed by WindesPC5 Checked by					
Innovyze	Network 2020.1.3					
<u>Free Flowing Outfall Details for Storm</u>						
Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
5.001		6.690	6.187	0.000	0	0
<u>Free Flowing Outfall Details for Storm</u>						
Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
6.001		6.390	5.965	0.000	0	0
<u>Free Flowing Outfall Details for Storm</u>						
Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
7.001		6.238	5.730	0.000	0	0

Odyssey		Page 14
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 0 to 45	
Date 19/04/2022 12:58 File Road 1_dams 1 to 8.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	
<u>Online Controls for Storm</u> <u>Pump Manhole: 2, DS/PN: 1.001, Volume (m³): 3.0</u> Invert Level (m) 6.910 <u>Pump Manhole: 4, DS/PN: 2.001, Volume (m³): 3.2</u> Invert Level (m) 6.820 <u>Pump Manhole: 6, DS/PN: 3.001, Volume (m³): 3.2</u> Invert Level (m) 6.660 <u>Pump Manhole: 8, DS/PN: 4.001, Volume (m³): 3.1</u> Invert Level (m) 6.440 <u>Pump Manhole: 10, DS/PN: 5.001, Volume (m³): 3.0</u> Invert Level (m) 6.200 <u>Pump Manhole: 12, DS/PN: 6.001, Volume (m³): 2.8</u> Invert Level (m) 5.980		
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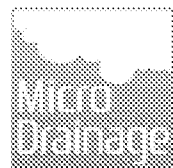
Odyssey		Page 15
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 0 to 45	
Date 19/04/2022 12:58 File Road 1_dams 1 to 8.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	
<u>Pump Manhole: Dam 1, DS/PN: 7.001, Volume (m³): 2.6</u> Invert Level (m) 5.740		
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Odyssey		Page 16
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 0 to 45	
Date 19/04/2022 12:58 File Road 1_dams 1 to 8.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	
<u>Offline Controls for Storm</u> <u>Weir Manhole: 2, DS/PN: 1.001, Loop to PN: 2.000</u> Discharge Coef 0.544 Width (m) 4.800 Invert Level (m) 7.418 <u>Weir Manhole: 4, DS/PN: 2.001, Loop to PN: 3.000</u> Discharge Coef 0.544 Width (m) 4.800 Invert Level (m) 7.344 <u>Weir Manhole: 6, DS/PN: 3.001, Loop to PN: 4.000</u> Discharge Coef 0.544 Width (m) 4.800 Invert Level (m) 7.161 <u>Weir Manhole: 8, DS/PN: 4.001, Loop to PN: 5.000</u> Discharge Coef 0.544 Width (m) 4.800 Invert Level (m) 7.001 <u>Weir Manhole: 10, DS/PN: 5.001, Loop to PN: 6.000</u> Discharge Coef 0.544 Width (m) 5.200 Invert Level (m) 6.689 <u>Weir Manhole: 12, DS/PN: 6.001, Loop to PN: 7.000</u> Discharge Coef 0.544 Width (m) 5.500 Invert Level (m) 6.389		
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Odyssey		Page 17																																																																																										
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<u>Storage Structures for Storm</u> <u>Porous Car Park Pipe: 1.000</u> <table> <tr> <td>Manning's N</td> <td>0.075</td> <td>Porosity</td> <td>0.30</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Invert Level (m)</td> <td>6.940</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Width (m)</td> <td>4.8</td> <td>Membrane Depth (mm)</td> <td>0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>5.9</td> <td>Length (m)</td> <td>4.4</td> <td></td> <td></td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>147.0</td> <td></td> <td></td> </tr> </table> <u>Porous Car Park Pipe: 2.000</u> <table> <tr> <td>Manning's N</td> <td>0.075</td> <td>Porosity</td> <td>0.30</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Invert Level (m)</td> <td>6.910</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Width (m)</td> <td>4.8</td> <td>Membrane Depth (mm)</td> <td>0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>6.1</td> <td>Length (m)</td> <td>4.6</td> <td></td> <td></td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>51.0</td> <td></td> <td></td> </tr> </table> <u>Porous Car Park Pipe: 3.000</u> <table> <tr> <td>Manning's N</td> <td>0.075</td> <td>Porosity</td> <td>0.30</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Invert Level (m)</td> <td>6.820</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Width (m)</td> <td>4.8</td> <td>Membrane Depth (mm)</td> <td>0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>6.3</td> <td>Length (m)</td> <td>4.7</td> <td></td> <td></td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>29.3</td> <td></td> <td></td> </tr> </table>			Manning's N	0.075	Porosity	0.30	Depression Storage (mm)	5	Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	6.940	Evaporation (mm/day)	3	Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	0	Max Percolation (l/s)	5.9	Length (m)	4.4			Safety Factor	2.0	Slope (1:X)	147.0			Manning's N	0.075	Porosity	0.30	Depression Storage (mm)	5	Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	6.910	Evaporation (mm/day)	3	Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	0	Max Percolation (l/s)	6.1	Length (m)	4.6			Safety Factor	2.0	Slope (1:X)	51.0			Manning's N	0.075	Porosity	0.30	Depression Storage (mm)	5	Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	6.820	Evaporation (mm/day)	3	Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	0	Max Percolation (l/s)	6.3	Length (m)	4.7			Safety Factor	2.0	Slope (1:X)	29.3		
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Odyssey		Page 19
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<u>Porous Car Park Pipe: 7.000</u> Slope (1:X) 16.8 Evaporation (mm/day) 3 Depression Storage (mm) 5 Membrane Depth (mm) 0		
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Odyssey		Page 20
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 0 to 45	
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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000	Manhole Headloss Coeff (Global) 0.500	MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0	Foul Sewage per hectare (l/s) 0.000	Inlet Coefficient 0.800
Hot Start Level (mm) 0	Additional Flow - % of Total Flow 0.000	Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0	Number of Offline Controls 6	Number of Time/Area Diagrams 0
Number of Online Controls 7	Number of Storage Structures 7	Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FEH	Data Type Point
FEH Rainfall Version	2013 Cv (Summer)	0.750
Site Location GB 497682 103581 SU 97682 03581 Cv (Winter)	0.840	

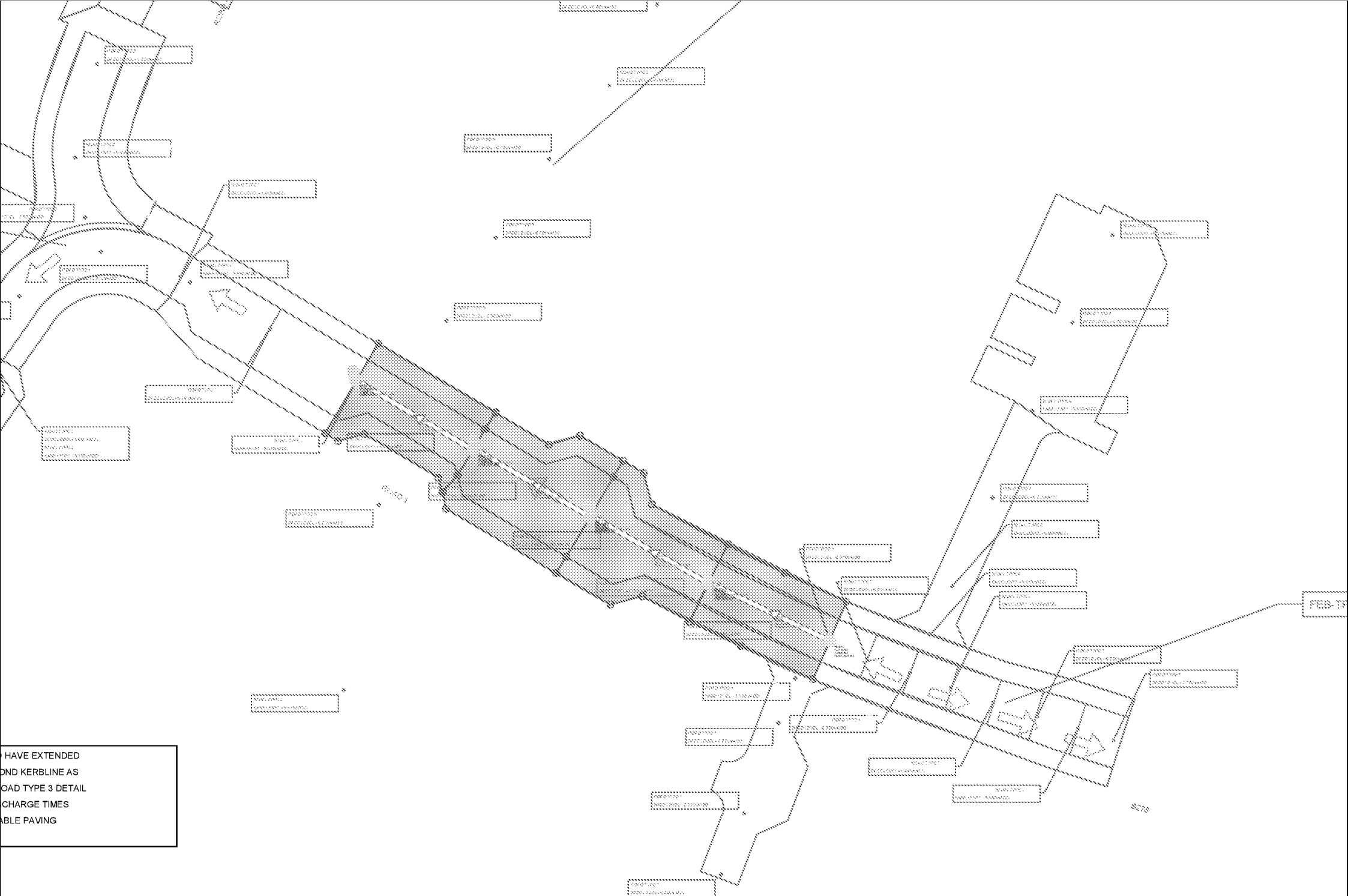
Margin for Flood Risk Warning (mm)	300.0	DVD Status OFF
Analysis Timestep 2.5 Second Increment (Extended)	Inertia Status OFF	
DTS Status	ON	

Profile(s)	Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080	
Return Period(s) (years)	100
Climate Change (%)	40

US/MH	US/CL	Water Flooded	Maximum Pipe
PN Name Event	(m)	Level Volume Flow / Maximum	Velocity Flow
(m)	(m³)	Cap. Vol (m³)	(m/s) (l/s) Status

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Odyssey												Page 21	
Tuscany House						Stakers Farm, Yapton - 19-156							
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HAVE EXTENDED
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CHARGE TIMES
ABLE PAVING

Odyssey		Page 1
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Innovyze	Network 2020.1.3	

Time Area Diagram for Existing at outfall E (pipe E1.001)

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.007	4-8	0.005

Total Area Contributing (ha) = 0.012

Total Pipe Volume (m³) = 9.902

Time Area Diagram at outfall E (pipe E2.001)

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.009	4-8	0.006

Total Area Contributing (ha) = 0.015

Total Pipe Volume (m³) = 14.772

Time Area Diagram at outfall E (pipe E3.001)

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.010	4-8	0.007

Total Area Contributing (ha) = 0.017

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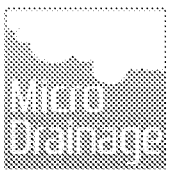
Odyssey		Page 2								
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Innovyze	Network 2020.1.3									
<u>Time Area Diagram at outfall E (pipe E3.001)</u> Total Pipe Volume (m³) = 14.648 <u>Time Area Diagram at outfall E (pipe E4.001)</u> <table><thead><tr><th>Time (mins)</th><th>Area (ha)</th><th>Time (mins)</th><th>Area (ha)</th></tr></thead><tbody><tr><td>0-4</td><td>0.008</td><td>4-8</td><td>0.005</td></tr></tbody></table> Total Area Contributing (ha) = 0.013 Total Pipe Volume (m³) = 10.142			Time (mins)	Area (ha)	Time (mins)	Area (ha)	0-4	0.008	4-8	0.005
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Odyssey		Page 4																																				
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Odyssey										Page 5															
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MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)														
EDam 8	7.435	0.495	Open Manhole	250	E1.000	6.940																			
E2	7.310	0.510	Open Manhole	250	E1.001	6.800	100	E1.000	6.800																
E	7.310	0.610	Open Manhole	0		OUTFALL		E1.001	6.700	100															
EDam 9	7.310	0.492	Open Manhole	250	E2.000	6.818																			
E4	7.157	0.492	Open Manhole	250	E2.001	6.665	100	E2.000	6.665																
E	7.157	0.592	Open Manhole	0		OUTFALL		E2.001	6.565	100															
EDam 10	7.157	0.492	Open Manhole	250	E3.000	6.665																			
E6	7.045	0.495	Open Manhole	250	E3.001	6.550	100	E3.000	6.550																
E	7.045	0.595	Open Manhole	0		OUTFALL		E3.001	6.450	100															
EDam 11	7.045	0.495	Open Manhole	250	E4.000	6.550																			
EDam 12	6.828	0.518	Open Manhole	250	E4.001	6.310	100	E4.000	6.310																
E	6.828	0.618	Open Manhole	0		OUTFALL		E4.001	6.210	100															
<table><tr><td>MH Name</td><td>Manhole Easting (m)</td><td>Manhole Northing (m)</td><td>Intersection Easting (m)</td><td>Intersection Northing (m)</td><td>Manhole Access</td><td>Layout (North)</td></tr><tr><td>EDam 8</td><td>497796.296</td><td>103761.183</td><td>497796.296</td><td>103761.183</td><td>Required</td><td></td></tr></table>												MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)	EDam 8	497796.296	103761.183	497796.296	103761.183	Required	
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Odyssey					Page 6																																																																
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Odyssey		Page 7
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Manhole Schedules for Existing

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
EDam 11	497759.349	103780.938	497759.349	103780.938	Required	
EDam 12	497747.126	103788.201	497747.126	103788.201	Required	
E	497746.895	103789.111			No Entry	

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Odyssey		Page 8
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 45 to 100	
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Area Summary for Existing

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	User	-	100	0.012	0.012	0.012
1.001	-	-	100	0.000	0.000	0.000
2.000	User	-	100	0.015	0.015	0.015
2.001	-	-	100	0.000	0.000	0.000
3.000	User	-	100	0.017	0.017	0.017
3.001	-	-	100	0.000	0.000	0.000
4.000	User	-	100	0.013	0.013	0.013
4.001	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.058	0.058	0.058

Free Flowing Outfall Details for Existing

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
E1.001	E	7.310	6.700	0.000	0	0

Free Flowing Outfall Details for Existing

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
E2.001	E	7.157	6.565	0.000	0	0

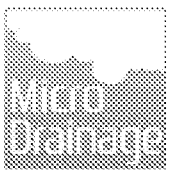
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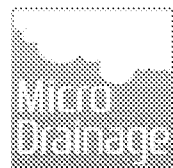
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<u>Online Controls for Existing</u> <u>Pump Manhole: E2, DS/PN: E1.001, Volume (m³): 9.7</u> Invert Level (m) 6.800 <u>Pump Manhole: E4, DS/PN: E2.001, Volume (m³): 14.5</u> Invert Level (m) 6.665 <u>Pump Manhole: E6, DS/PN: E3.001, Volume (m³): 14.4</u> Invert Level (m) 6.550 <u>Pump Manhole: EDam 12, DS/PN: E4.001, Volume (m³): 10.0</u> Invert Level (m) 6.310		
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Odyssey		Page 11
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 45 to 100	
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<u>Offline Controls for Existing</u> <u>Weir Manhole: E2, DS/PN: E1.001, Loop to PN: E2.000</u> Discharge Coef 0.544 Width (m) 4.800 Invert Level (m) 7.310 <u>Weir Manhole: E4, DS/PN: E2.001, Loop to PN: E3.000</u> Discharge Coef 0.544 Width (m) 4.800 Invert Level (m) 7.157 <u>Weir Manhole: E6, DS/PN: E3.001, Loop to PN: E4.000</u> Discharge Coef 0.544 Width (m) 4.800 Invert Level (m) 7.045		
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Odyssey		Page 12																																																																																										
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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Existing

Simulation Criteria

Areal Reduction Factor 1.000	Manhole Headloss Coeff (Global) 0.500	MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0	Foul Sewage per hectare (l/s) 0.000	Inlet Coefficient 0.800
Hot Start Level (mm) 0	Additional Flow - % of Total Flow 0.000	Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0	Number of Offline Controls 3	Number of Time/Area Diagrams 0
Number of Online Controls 4	Number of Storage Structures 4	Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FEH	Data Type Point
FEH Rainfall Version	2013 Cv (Summer)	0.750
Site Location GB 497682 103581 SU 97682 03581 Cv (Winter)	0.840	

Margin for Flood Risk Warning (mm)	300.0	DVD Status OFF
Analysis Timestep 2.5 Second Increment (Extended)	Inertia Status OFF	
DTS Status	ON	

Profile(s)	Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880,	4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	100
Climate Change (%)	40

		Water Flooded			Maximum Pipe		
US/MH	US/CL	Level	Volume	Flow /	Maximum	Velocity	Flow
PN Name Event	(m)	(m)	(m³)	Cap. Vol (m³)	(m/s)	(l/s)	Status

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Odyssey										Page 15				
Tuscany House White Hart Lane Basingstoke RG21 4AF							Stakers Farm, Yapton - 19-156 As built - chainage 45 to 100							
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Odyssey		Page 1
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Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	

Time Area Diagram for Dam 12 (ch.100) to chainage 210 at outfall E (pipe E1.001)

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.008	4-8	0.004

Total Area Contributing (ha) = 0.011

Total Pipe Volume (m³) = 10.725

Time Area Diagram at outfall E (pipe E2.001)

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.008	4-8	0.003

Total Area Contributing (ha) = 0.011

Total Pipe Volume (m³) = 10.937

Time Area Diagram at outfall E (pipe E3.002)

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.011	4-8	0.010

Total Area Contributing (ha) = 0.021

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Odyssey		Page 2												
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<u>Time Area Diagram at outfall E (pipe E3.002)</u> Total Pipe Volume (m³) = 18.553 <u>Time Area Diagram at outfall E (pipe E4.007)</u> <table border="1"> <thead> <tr> <th>Time (mins)</th> <th>Area (ha)</th> <th>Time (mins)</th> <th>Area (ha)</th> <th>Time (mins)</th> <th>Area (ha)</th> </tr> </thead> <tbody> <tr> <td>0-4</td> <td>0.032</td> <td>4-8</td> <td>0.054</td> <td>8-12</td> <td>0.009</td> </tr> </tbody> </table> Total Area Contributing (ha) = 0.095 Total Pipe Volume (m³) = 83.359			Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	0-4	0.032	4-8	0.054	8-12	0.009
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Existing Network Details for Dam 12 (ch.100) to chainage 210

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type
E4.000	13.635	0.032	426.1	0.040	5.00	0.0		0.050	→ →		Porous Car Park
E4.001	13.413	0.070	191.6	0.013	0.00	0.0		0.050	→ →		Porous Car Park
E4.002	7.128	0.004	1782.0	0.006	0.00	0.0		0.050	→ →		Porous Car Park
E4.003	8.906	0.016	556.6	0.023	0.00	0.0		0.050	→ →		Porous Car Park
E4.004	8.675	0.059	147.0	0.006	0.00	0.0		0.050	→ →		Porous Car Park
E4.005	7.151	0.111	64.4	0.005	0.00	0.0		0.050	→ →		Porous Car Park
E4.006	4.031	0.000	0.0	0.003	0.00	0.0		0.050	→ →		Porous Car Park
E4.007	1.647	0.000	0.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit

Network Results Table

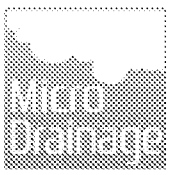
PN	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Vel (m/s)	Cap (l/s)
E4.000	5.603	0.040	0.0	0.23	391.3
E4.001	5.571	0.053	0.0	0.34	484.1
E4.002	5.591	0.059	0.0	0.11	126.1
E4.003	5.487	0.082	0.0	0.20	225.7
E4.004	5.481	0.088	0.0	0.39	439.1
E4.005	5.422	0.093	0.0	0.58	663.4
E4.006	5.311	0.095	0.0	0.00	0.0
E4.007	5.311	0.095	0.0	0.00	0.0

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Odyssey								Page 5			
Tuscany House White Hart Lane Basingstoke RG21 4AF				Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210							
Date 19/04/2022 12:46				Designed by WindesPC5							
File Road 1_3_chainage 100 to chainage 210.MDX				Checked by							
Innovyze				Network 2020.1.3							
<u>Manhole Schedules for Dam 12 (ch.100) to chainage 210</u>											
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
EDam 12	6.826	0.510	Open Manhole	250	E1.000	6.310					
E2	6.850	0.510	Open Manhole	250	E1.001	6.140	100	E1.000	6.140		
E	6.650	0.610	Open Manhole	0		OUTFALL		E1.001	6.040	100	
EDam 13	6.650	0.510	Open Manhole	250	E2.000	6.140					
E4	6.427	0.510	Open Manhole	250	E2.001	5.917	100	E2.000	5.917		
E	6.427	0.610	Open Manhole	0		OUTFALL		E2.001	5.817	100	
E5	6.427	0.510	Open Manhole	250	E3.000	5.917					
E6	6.260	0.510	Open Manhole	250	E3.001	5.750		E3.000	5.750		
E7	6.202	0.510	Open Manhole	250	E3.002	5.692	100	E3.001	5.692		
E	6.202	0.610	Open Manhole	0		OUTFALL		E3.002	5.592	100	
E9	6.095	0.490	Open Manhole	1200	E4.000	5.603					
E10	6.061	0.490	Open Manhole	250	E4.001	5.571		E4.000	5.571		
E11	5.991	0.490	Open Manhole	250	E4.002	5.501		E4.001	5.501		
E12	5.987	0.490	Open Manhole	250	E4.003	5.497		E4.002	5.497		
E13	5.971	0.490	Open Manhole	250	E4.004	5.481		E4.003	5.481		
E14	5.912	0.490	Open Manhole	250	E4.005	5.422		E4.004	5.422		
E15	5.861	0.490	Open Manhole	250	E4.006	5.311		E4.005	5.311		
E16	5.810	0.499	Open Manhole	250	E4.007	5.311	100	E4.006	5.311		
E	5.801	0.490	Open Manhole	0		OUTFALL		E4.007	5.311	100	
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Odyssey					Page 6	
Tuscany House White Hart Lane Basingstoke RG21 4AF			Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210			
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX			Designed by WindesPC5 Checked by			
Innovyze			Network 2020.1.3			
<u>Manhole Schedules for Dam 12 (ch.100) to chainage 210</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
EDam 12	497747.137	103788.226	497747.137	103788.226	Required	
E2	497738.283	103793.488	497738.283	103793.488	Required	
E	497737.950	103794.724			No Entry	
EDam 13	497737.937	103793.147	497737.937	103793.147	Required	
E4	497729.041	103798.728	497729.041	103798.728	Required	
E	497728.531	103800.201			No Entry	
E5	497728.837	103798.555	497728.837	103798.555	Required	
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Odyssey				Page 7		
Tuscany House White Hart Lane Basingstoke RG21 4AF		Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210				
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX		Designed by WindesPC5 Checked by				
Innovyze		Network 2020.1.3				
<u>Manhole Schedules for Dam 12 (ch.100) to chainage 210</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
E6	497712.238	103796.877	497712.238	103796.877	Required	
E7	497708.537	103791.750	497708.537	103791.750	Required	
E	497708.307	103790.394			No Entry	
E9	497708.383	103791.422	497708.383	103791.422	Required	
E10	497700.598	103780.227	497700.598	103780.227	Required	
E11	497692.894	103769.248	497692.894	103769.248	Required	
E12	497689.605	103762.924	497689.605	103762.924	Required	
E13	497686.285	103754.660	497686.285	103754.660	Required	
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Odyssey		Page 8
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210	
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX	Designed by WindesPC5 Checked by	
Innovyze Network 2020.1.3		

Manhole Schedules for Dam 12 (ch.100) to chainage 210

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
E14	497683.269	103746.526	497683.269	103746.526	Required	
E15	497681.003	103739.743	497681.003	103739.743	Required	
E16	497679.638	103735.950	497679.638	103735.950	Required	
E	497678.045	103735.533			No Entry	

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Odyssey				Page 9																																																																																																																																																											
Tuscany House White Hart Lane Basingstoke RG21 4AF		Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210																																																																																																																																																													
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<u>Area Summary for Dam 12 (ch.100) to chainage 210</u> <table><thead><tr><th>Pipe Number</th><th>PIMP Type</th><th>PIMP Name</th><th>PIMP (%)</th><th>Gross Area (ha)</th><th>Imp. Area (ha)</th><th>Pipe Total (ha)</th></tr></thead><tbody><tr><td>1.000</td><td>User</td><td>-</td><td>100</td><td>0.011</td><td>0.011</td><td>0.011</td></tr><tr><td>1.001</td><td>-</td><td>-</td><td>100</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>2.000</td><td>User</td><td>-</td><td>100</td><td>0.011</td><td>0.011</td><td>0.011</td></tr><tr><td>2.001</td><td>-</td><td>-</td><td>100</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>3.000</td><td>User</td><td>-</td><td>100</td><td>0.015</td><td>0.015</td><td>0.015</td></tr><tr><td>3.001</td><td>User</td><td>-</td><td>100</td><td>0.006</td><td>0.006</td><td>0.006</td></tr><tr><td>3.002</td><td>-</td><td>-</td><td>100</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>4.000</td><td>-</td><td>-</td><td>100</td><td>0.040</td><td>0.040</td><td>0.040</td></tr><tr><td>4.001</td><td>User</td><td>-</td><td>100</td><td>0.013</td><td>0.013</td><td>0.013</td></tr><tr><td>4.002</td><td>User</td><td>-</td><td>100</td><td>0.006</td><td>0.006</td><td>0.006</td></tr><tr><td>4.003</td><td>User</td><td>-</td><td>100</td><td>0.006</td><td>0.006</td><td>0.006</td></tr><tr><td></td><td>User</td><td>-</td><td>100</td><td>0.002</td><td>0.002</td><td>0.008</td></tr><tr><td></td><td>User</td><td>-</td><td>100</td><td>0.006</td><td>0.006</td><td>0.015</td></tr><tr><td></td><td>User</td><td>-</td><td>100</td><td>0.006</td><td>0.006</td><td>0.021</td></tr><tr><td></td><td>User</td><td>-</td><td>100</td><td>0.002</td><td>0.002</td><td>0.023</td></tr><tr><td>4.004</td><td>User</td><td>-</td><td>100</td><td>0.006</td><td>0.006</td><td>0.006</td></tr><tr><td>4.005</td><td>User</td><td>-</td><td>100</td><td>0.005</td><td>0.005</td><td>0.005</td></tr><tr><td>4.006</td><td>User</td><td>-</td><td>100</td><td>0.003</td><td>0.003</td><td>0.003</td></tr><tr><td>4.007</td><td>-</td><td>-</td><td>100</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td></td><td></td><td></td><td></td><td>Total</td><td>Total</td><td>Total</td></tr><tr><td></td><td></td><td></td><td></td><td>0.138</td><td>0.138</td><td>0.138</td></tr></tbody></table>						Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)	1.000	User	-	100	0.011	0.011	0.011	1.001	-	-	100	0.000	0.000	0.000	2.000	User	-	100	0.011	0.011	0.011	2.001	-	-	100	0.000	0.000	0.000	3.000	User	-	100	0.015	0.015	0.015	3.001	User	-	100	0.006	0.006	0.006	3.002	-	-	100	0.000	0.000	0.000	4.000	-	-	100	0.040	0.040	0.040	4.001	User	-	100	0.013	0.013	0.013	4.002	User	-	100	0.006	0.006	0.006	4.003	User	-	100	0.006	0.006	0.006		User	-	100	0.002	0.002	0.008		User	-	100	0.006	0.006	0.015		User	-	100	0.006	0.006	0.021		User	-	100	0.002	0.002	0.023	4.004	User	-	100	0.006	0.006	0.006	4.005	User	-	100	0.005	0.005	0.005	4.006	User	-	100	0.003	0.003	0.003	4.007	-	-	100	0.000	0.000	0.000					Total	Total	Total					0.138	0.138	0.138
Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)																																																																																																																																																									
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4.003	User	-	100	0.006	0.006	0.006																																																																																																																																																									
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Odyssey		Page 10
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210	
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX	Designed by WindesPC5 Checked by	
Innovyze Network 2020.1.3		

Free Flowing Outfall Details for Dam 12 (ch.100) to chainage 210

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
E1.001	E	6.650	6.040	0.000	0	0

Free Flowing Outfall Details for Dam 12 (ch.100) to chainage 210

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
E2.001	E	6.427	5.817	0.000	0	0

Free Flowing Outfall Details for Dam 12 (ch.100) to chainage 210

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
E3.002	E	6.202	5.592	0.000	0	0

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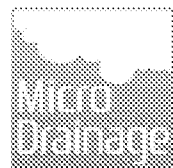
Odyssey		Page 11														
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210															
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX	Designed by WindesPC5 Checked by															
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<u>Free Flowing Outfall Details for Dam 12 (ch.100) to chainage 210</u> <table border="1"> <thead> <tr> <th>Outfall Pipe Number</th> <th>Outfall Name</th> <th>C. Level (m)</th> <th>I. Level (m)</th> <th>Min I. Level (m)</th> <th>D,L (mm)</th> <th>W (mm)</th> </tr> </thead> <tbody> <tr> <td>E4.007</td> <td>E</td> <td>5.801</td> <td>5.311</td> <td>0.000</td> <td>0</td> <td>0</td> </tr> </tbody> </table>			Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)	E4.007	E	5.801	5.311	0.000	0	0
Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)										
E4.007	E	5.801	5.311	0.000	0	0										
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Odyssey		Page 12
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210	
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	
<u>Online Controls for Dam 12 (ch.100) to chainage 210</u> <u>Pump Manhole: E2, DS/PN: E1.001, Volume (m³): 10.5</u> Invert Level (m) 6.140 <u>Pump Manhole: E4, DS/PN: E2.001, Volume (m³): 10.7</u> Invert Level (m) 5.917 <u>Pump Manhole: E7, DS/PN: E3.002, Volume (m³): 4.5</u> Invert Level (m) 5.692 <u>Pump Manhole: E16, DS/PN: E4.007, Volume (m³): 4.3</u> Invert Level (m) 5.311		
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Odyssey		Page 13
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210	
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	
<u>Offline Controls for Dam 12 (ch.100) to chainage 210</u> <u>Weir Manhole: E2, DS/PN: E1.001, Loop to PN: E2.000</u> Discharge Coef 0.544 Width (m) 6.800 Invert Level (m) 6.640 <u>Weir Manhole: E4, DS/PN: E2.001, Loop to PN: E3.000</u> Discharge Coef 0.544 Width (m) 6.800 Invert Level (m) 6.426 <u>Weir Manhole: E7, DS/PN: E3.002, Loop to PN: E4.000</u> Discharge Coef 0.544 Width (m) 4.800 Invert Level (m) 6.201		
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Odyssey		Page 14																																																																																										
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<u>Storage Structures for Dam 12 (ch.100) to chainage 210</u> <u>Porous Car Park Pipe: E1.000</u> <table> <tr> <td>Manning's N</td> <td>0.075</td> <td>Porosity</td> <td>0.30</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Invert Level (m)</td> <td>6.310</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Width (m)</td> <td>6.8</td> <td>Membrane Depth (mm)</td> <td>0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>19.5</td> <td>Length (m)</td> <td>10.3</td> <td></td> <td></td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>60.6</td> <td></td> <td></td> </tr> </table> <u>Porous Car Park Pipe: E2.000</u> <table> <tr> <td>Manning's N</td> <td>0.075</td> <td>Porosity</td> <td>0.30</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Invert Level (m)</td> <td>6.140</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Width (m)</td> <td>6.8</td> <td>Membrane Depth (mm)</td> <td>0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>19.8</td> <td>Length (m)</td> <td>10.5</td> <td></td> <td></td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>47.1</td> <td></td> <td></td> </tr> </table> <u>Porous Car Park Pipe: E3.000</u> <table> <tr> <td>Manning's N</td> <td>0.075</td> <td>Porosity</td> <td>0.30</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Invert Level (m)</td> <td>5.917</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Width (m)</td> <td>4.8</td> <td>Membrane Depth (mm)</td> <td>0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>25.2</td> <td>Length (m)</td> <td>18.9</td> <td></td> <td></td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>113.3</td> <td></td> <td></td> </tr> </table> ©1982-2020 Innovyze			Manning's N	0.075	Porosity	0.30	Depression Storage (mm)	5	Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	6.310	Evaporation (mm/day)	3	Membrane Percolation (mm/hr)	1000	Width (m)	6.8	Membrane Depth (mm)	0	Max Percolation (l/s)	19.5	Length (m)	10.3			Safety Factor	2.0	Slope (1:X)	60.6			Manning's N	0.075	Porosity	0.30	Depression Storage (mm)	5	Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	6.140	Evaporation (mm/day)	3	Membrane Percolation (mm/hr)	1000	Width (m)	6.8	Membrane Depth (mm)	0	Max Percolation (l/s)	19.8	Length (m)	10.5			Safety Factor	2.0	Slope (1:X)	47.1			Manning's N	0.075	Porosity	0.30	Depression Storage (mm)	5	Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	5.917	Evaporation (mm/day)	3	Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	0	Max Percolation (l/s)	25.2	Length (m)	18.9			Safety Factor	2.0	Slope (1:X)	113.3		
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Odyssey		Page 15																																																																																																												
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Odyssey		Page 16																																																																														
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Odyssey		Page 17
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Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	

Porous Car Park Pipe: E4.003

Manning's N	0.050	Porosity	0.95	Depression Storage (mm)	5
Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	5.497	Evaporation (mm/day)	3
Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	240
Max Percolation (l/s)	11.9	Length (m)	8.9		
Safety Factor	2.0	Slope (1:X)	556.6		

Porous Car Park Manhole: E13, DS/PN: E4.004

Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.30	Slope (1:X)	556.6
Membrane Percolation (mm/hr)	1000	Invert Level (m)	5.731	Depression Storage (mm)	5
Max Percolation (l/s)	11.9	Width (m)	4.8	Evaporation (mm/day)	3
Safety Factor	2.0	Length (m)	8.9	Membrane Depth (mm)	0

Porous Car Park Pipe: E4.004

Manning's N	0.050	Porosity	0.95	Depression Storage (mm)	5
Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	5.481	Evaporation (mm/day)	3
Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	240
Max Percolation (l/s)	11.6	Length (m)	8.7		
Safety Factor	2.0	Slope (1:X)	147.0		

Porous Car Park Manhole: E14, DS/PN: E4.005

Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.30	Slope (1:X)	147.0
Membrane Percolation (mm/hr)	1000	Invert Level (m)	5.672	Depression Storage (mm)	5
Max Percolation (l/s)	11.6	Width (m)	4.8	Evaporation (mm/day)	3
Safety Factor	2.0	Length (m)	8.7	Membrane Depth (mm)	0

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Odyssey		Page 18
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210	
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	

Porous Car Park Pipe: E4.005

Manning's N	0.050	Porosity	0.95	Depression Storage (mm)	5
Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	5.422	Evaporation (mm/day)	3
Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	240
Max Percolation (l/s)	9.5	Length (m)	7.2		
Safety Factor	2.0	Slope (1:X)	64.4		

Porous Car Park Manhole: E15, DS/PN: E4.006

Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.30	Slope (1:X)	64.4
Membrane Percolation (mm/hr)	1000	Invert Level (m)	5.561	Depression Storage (mm)	5
Max Percolation (l/s)	9.6	Width (m)	4.8	Evaporation (mm/day)	3
Safety Factor	2.0	Length (m)	7.2	Membrane Depth (mm)	0

Porous Car Park Pipe: E4.006

Manning's N	0.050	Porosity	0.95	Depression Storage (mm)	5
Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	5.311	Evaporation (mm/day)	3
Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	240
Max Percolation (l/s)	5.4	Length (m)	4.0		
Safety Factor	2.0	Slope (1:X)	0.0		

Porous Car Park Manhole: E16, DS/PN: E4.007

Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.30	Slope (1:X)	0.0
Membrane Percolation (mm/hr)	1000	Invert Level (m)	5.561	Depression Storage (mm)	5
Max Percolation (l/s)	5.3	Width (m)	4.8	Evaporation (mm/day)	3
Safety Factor	2.0	Length (m)	4.0	Membrane Depth (mm)	0

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Odyssey		Page 19
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210	
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Dam 12 (ch.100) to chainage 210

Simulation Criteria

Areal Reduction Factor 1.000	Manhole Headloss Coeff (Global) 0.500	MADD Factor * 10m³/ha Storage 2.000
Hot Start (mins) 0	Foul Sewage per hectare (l/s) 0.000	Inlet Coefficient 0.800
Hot Start Level (mm) 0	Additional Flow - % of Total Flow 0.000	Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0	Number of Offline Controls 3	Number of Time/Area Diagrams 0
Number of Online Controls 4	Number of Storage Structures 18	Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FEH	Data Type Point
FEH Rainfall Version	2013 Cv (Summer)	0.750
Site Location GB 497682 103581 SU 97682 03581 Cv (Winter)	0.840	

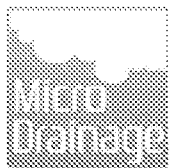
Margin for Flood Risk Warning (mm)	300.0	DVD Status OFF
Analysis Timestep 2.5 Second Increment (Extended)	Inertia Status OFF	
DTS Status	ON	

Profile(s)	Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080	
Return Period(s) (years)	100
Climate Change (%)	40

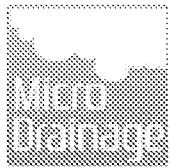
Water Flooded				Maximum Pipe		
US/MH	US/CL	Level	Volume	Flow / Overflow	Maximum Velocity	Pipe Flow
PN Name Event	(m)	(m)	(m³)	Cap. Vol (m³)	Vol (m³)	(m/s) (l/s) Status

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Odyssey										Page 20				
Tuscany House					Stakers Farm, Yapton - 19-156									
White Hart Lane					As built - chainage 100 to 210									
Basingstoke RG21 4AF														
Date 19/04/2022 12:46					Designed by WindesPC5									
File Road 1_3_chainage 100 to chainage 210.MDX					Checked by									
Innovyze					Network 2020.1.3									
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Dam 12 (ch.100) to chainage 210</u>														
PN	US/MH Name	Event	US/CL (m)	Water Flooded			Flow / Cap.	Overflow Vol (m³)	Maximum Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status		
				Level (m)	Volume (m³)	Flow / Cap.								
E1.000	EDam 12	720 minute 100 year Winter I+40%	6.820	6.609	0.000	0.00			0.014	0.0	0.3	FLOOD RISK		
E1.001	E2	720 minute 100 year Winter I+40%	6.650	6.610	0.000	0.00	0.000		7.805	0.0	0.0	FLOOD RISK		
E2.000	EDam 13	600 minute 100 year Winter I+40%	6.650	6.386	0.000	0.00			0.012	0.1	0.3	FLOOD RISK		
E2.001	E4	600 minute 100 year Winter I+40%	6.427	6.387	0.000	0.00	0.000		7.399	0.0	0.0	FLOOD RISK		
E3.000	E5	720 minute 100 year Winter I+40%	6.427	6.202	0.000	0.00			0.014	0.0	0.4	FLOOD RISK		
E3.001	E6	720 minute 100 year Winter I+40%	6.260	6.202	0.000	0.00			9.802	0.0	0.3	FLOOD RISK		
E3.002	E7	720 minute 100 year Winter I+40%	6.202	6.202	0.378	0.00	0.050		4.549	0.0	0.0	FLOOD (X)		
E4.000	E9	1440 minute 100 year Winter I+40%	6.093	5.774	0.000	0.01			0.188	0.0	2.1	OK		
E4.001	E10	1440 minute 100 year Winter I+40%	6.061	5.774	0.000	0.01			16.065	0.1	4.5	FLOOD RISK		
E4.002	E11	1440 minute 100 year Winter I+40%	5.991	5.775	0.000	0.01			16.343	0.0	3.0	FLOOD RISK		
E4.003	E12	1440 minute 100 year Winter I+40%	5.987	5.775	0.000	0.01			7.687	0.0	2.2	FLOOD RISK		
E4.004	E13	1440 minute 100 year Winter I+40%	5.971	5.776	0.000	0.01			10.123	0.1	2.1	FLOOD RISK		
E4.005	E14	1440 minute 100 year Winter I+40%	5.912	5.776	0.000	0.00			10.545	0.1	2.6	FLOOD RISK		
E4.006	E15	1440 minute 100 year Winter I+40%	5.801	5.777	0.000	0.00			9.546	0.0	1.5	FLOOD RISK		
E4.007	E16	1440 minute 100 year Winter I+40%	5.810	5.777	0.000	0.00			5.576	0.0	0.0	FLOOD RISK		
(X) - FLOODING FROM UPSTREAM SECTION WILL BE ROUTED OVERLAND INTO THE NEXT PERMEABLE PAVING SECTION DOWNSTREAM WITH NO FLOODING SHOWN IN THE LAST SECTION THUS NO FLOODING OFF-SITE, THEREFORE THE SCHEME WILL WORK SATISFACTORILY														
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Odyssey				Page 1	
Tuscany House		Stakers Farm, Yapton			
White Hart Lane		As-built			
Basingstoke RG21 4AF		Road 2 and Plots 23-28			
Date 20/04/2022 11:47		Designed by WindesPC5			
File As-built_Road 2_includi...		Checked by			
Innovyze		Source Control 2020.1.3			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Half Drain Time : 2661 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	5.948	0.153	0.3	26.5	O K
30 min Summer	5.982	0.187	0.3	36.0	O K
60 min Summer	6.019	0.224	0.3	46.5	O K
120 min Summer	6.050	0.255	0.3	54.9	O K
180 min Summer	6.074	0.279	0.3	60.0	Flood Risk
240 min Summer	6.090	0.295	0.3	63.4	Flood Risk
360 min Summer	6.109	0.314	0.3	67.4	Flood Risk
480 min Summer	6.120	0.325	0.3	69.9	Flood Risk
600 min Summer	6.128	0.333	0.3	71.5	Flood Risk
720 min Summer	6.133	0.338	0.3	72.6	Flood Risk
960 min Summer	6.138	0.343	0.3	73.7	Flood Risk
1440 min Summer	6.140	0.345	0.3	74.1	Flood Risk
2160 min Summer	6.134	0.339	0.3	72.7	Flood Risk
2880 min Summer	6.129	0.334	0.3	71.7	Flood Risk
4320 min Summer	6.123	0.328	0.3	70.4	Flood Risk
5760 min Summer	6.118	0.323	0.3	69.4	Flood Risk
7200 min Summer	6.115	0.320	0.3	68.8	Flood Risk
8640 min Summer	6.113	0.318	0.3	68.3	Flood Risk
10080 min Summer	6.112	0.317	0.3	68.0	Flood Risk
15 min Winter	5.960	0.165	0.3	29.9	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	141.164	0.0	19		
30 min Summer	94.700	0.0	34		
60 min Summer	60.903	0.0	64		
120 min Summer	36.128	0.0	124		
180 min Summer	26.473	0.0	184		
240 min Summer	21.126	0.0	244		
360 min Summer	15.214	0.0	362		
480 min Summer	12.016	0.0	482		
600 min Summer	9.993	0.0	602		
720 min Summer	8.590	0.0	722		
960 min Summer	6.756	0.0	962		
1440 min Summer	4.823	0.0	1440		
2160 min Summer	3.462	0.0	1972		
2880 min Summer	2.754	0.0	2308		
4320 min Summer	2.025	0.0	3072		
5760 min Summer	1.648	0.0	3920		
7200 min Summer	1.419	0.0	4752		
8640 min Summer	1.264	0.0	5616		
10080 min Summer	1.153	0.0	6448		
15 min Winter	141.164	0.0	19		
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Odyssey		Page 2			
Tuscany House	Stakers Farm, Yapton				
White Hart Lane	As-built				
Basingstoke RG21 4AF	Road 2 and Plots 23-28				
Date 20/04/2022 11:47	Designed by WindesPC5				
File As-built_Road 2_includi...	Checked by				
Innovyze	Source Control 2020.1.3				
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	5.998	0.203	0.3	40.5	O K
60 min Winter	6.040	0.245	0.3	52.4	O K
120 min Winter	6.083	0.288	0.3	61.9	Flood Risk
180 min Winter	6.109	0.314	0.3	67.6	Flood Risk
240 min Winter	6.128	0.333	0.3	71.4	Flood Risk
360 min Winter	6.153	0.358	0.3	76.1	Flood Risk
480 min Winter	6.182	0.387	0.3	79.0	Flood Risk
600 min Winter	6.202	0.407	0.3	80.9	Flood Risk
720 min Winter	6.215	0.420	0.3	82.3	Flood Risk
960 min Winter	6.236	0.441	0.3	83.8	Flood Risk
1440 min Winter	6.256	0.461	0.3	84.3	Flood Risk
2160 min Winter	6.244	0.449	0.3	84.3	Flood Risk
2880 min Winter	6.219	0.424	0.3	82.7	Flood Risk
4320 min Winter	6.197	0.402	0.3	80.4	Flood Risk
5760 min Winter	6.178	0.383	0.3	78.6	Flood Risk
7200 min Winter	6.162	0.367	0.3	76.9	Flood Risk
8640 min Winter	6.147	0.352	0.3	75.4	Flood Risk
10080 min Winter	6.140	0.345	0.3	74.1	Flood Risk
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	94.700	0.0	34		
60 min Winter	60.903	0.0	64		
120 min Winter	36.128	0.0	122		
180 min Winter	26.473	0.0	182		
240 min Winter	21.126	0.0	240		
360 min Winter	15.214	0.0	358		
480 min Winter	12.016	0.0	476		
600 min Winter	9.993	0.0	594		
720 min Winter	8.590	0.0	710		
960 min Winter	6.756	0.0	942		
1440 min Winter	4.823	0.0	1400		
2160 min Winter	3.462	0.0	2072		
2880 min Winter	2.754	0.0	2680		
4320 min Winter	2.025	0.0	3328		
5760 min Winter	1.648	0.0	4264		
7200 min Winter	1.419	0.0	5184		
8640 min Winter	1.264	0.0	6056		
10080 min Winter	1.153	0.0	6968		
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Odyssey		Page 3
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton As-built Road 2 and Plots 23-28	
Date 20/04/2022 11:47 File As-built_Road 2_includi...	Designed by WindesPC5 Checked by	
Innovyze	Source Control 2020.1.3	

Rainfall Details

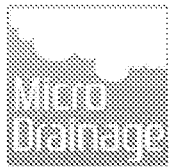
Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 497682 103581 SU 97682 03581
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.750
Cv (Winter)	0.840
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.107

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.107

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Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton As-built Road 2 and Plots 23-28	
Date 20/04/2022 11:47 File As-built_Road 2_includi...	Designed by WindesPC5 Checked by	
Innovyze	Source Control 2020.1.3	

Model Details

Storage is Online Cover Level (m) 6.355

Complex Structure

Cellular Storage

Invert Level (m) 5.795 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00648 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	74.0	74.0	0.251	0.0	86.7
0.250	74.0	86.7			

Cellular Storage

Invert Level (m) 5.795 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00648 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	47.5	47.5	0.251	0.0	53.5
0.250	47.5	53.5			

Cellular Storage

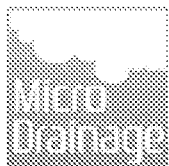
Invert Level (m) 5.895 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00648 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	175.2	175.2	0.251	0.0	189.2
0.250	175.2	189.2			

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	21.8
Max Percolation (l/s)	30.3	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.045	Cap Volume Depth (m)	0.180

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Odyssey		Page 5																																																
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton As-built Road 2 and Plots 23-28																																																	
Date 20/04/2022 11:47 File As-built_Road 2_includi...	Designed by WindesPC5 Checked by																																																	
Innovyze	Source Control 2020.1.3																																																	
<u>Porous Car Park</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>4.8</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>9.6</td></tr><tr><td>Max Percolation (l/s)</td><td>12.8</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.045</td><td>Cap Volume Depth (m)</td><td>0.180</td></tr></table> <u>Porous Car Park</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>13.4</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>13.4</td></tr><tr><td>Max Percolation (l/s)</td><td>49.9</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.145</td><td>Cap Volume Depth (m)</td><td>0.180</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	4.8	Membrane Percolation (mm/hr)	1000	Length (m)	9.6	Max Percolation (l/s)	12.8	Slope (1:X)	0.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.045	Cap Volume Depth (m)	0.180	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	13.4	Membrane Percolation (mm/hr)	1000	Length (m)	13.4	Max Percolation (l/s)	49.9	Slope (1:X)	0.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.145	Cap Volume Depth (m)	0.180
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	4.8																																															
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Safety Factor	2.0	Depression Storage (mm)	5																																															
Porosity	0.30	Evaporation (mm/day)	3																																															
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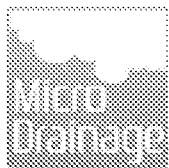
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 862 minutes. <table><thead><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>6.589</td><td>0.313</td><td>0.2</td><td>8.9</td><td>Flood Risk</td></tr><tr><td>30 min Summer</td><td>6.641</td><td>0.365</td><td>0.2</td><td>12.5</td><td>Flood Risk</td></tr><tr><td>60 min Summer</td><td>6.692</td><td>0.416</td><td>0.2</td><td>16.4</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>6.727</td><td>0.451</td><td>0.3</td><td>19.2</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>6.745</td><td>0.469</td><td>0.3</td><td>20.8</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>6.756</td><td>0.480</td><td>0.3</td><td>21.7</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>6.765</td><td>0.489</td><td>0.3</td><td>22.5</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>6.767</td><td>0.491</td><td>0.3</td><td>22.6</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>6.765</td><td>0.489</td><td>0.3</td><td>22.5</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>6.763</td><td>0.487</td><td>0.3</td><td>22.3</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>6.758</td><td>0.482</td><td>0.3</td><td>21.9</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>6.748</td><td>0.472</td><td>0.3</td><td>21.1</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>6.734</td><td>0.458</td><td>0.3</td><td>19.9</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>6.722</td><td>0.446</td><td>0.3</td><td>18.8</td><td>Flood Risk</td></tr><tr><td>4320 min Summer</td><td>6.700</td><td>0.424</td><td>0.2</td><td>17.0</td><td>Flood Risk</td></tr><tr><td>5760 min Summer</td><td>6.680</td><td>0.404</td><td>0.2</td><td>15.5</td><td>Flood Risk</td></tr><tr><td>7200 min 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Summer	6.652	0.376	0.2	13.3	Flood Risk	10080 min Summer	6.642	0.366	0.2	12.6	Flood Risk	15 min Winter	6.609	0.333	0.2	10.2	Flood Risk	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	141.164	0.0	19	30 min Summer	94.700	0.0	34	60 min Summer	60.903	0.0	64	120 min Summer	36.128	0.0	122	180 min Summer	26.473	0.0	182	240 min Summer	21.126	0.0	242	360 min Summer	15.214	0.0	362	480 min Summer	12.016	0.0	480	600 min Summer	9.993	0.0	582	720 min Summer	8.590	0.0	622	960 min Summer	6.756	0.0	742	1440 min Summer	4.823	0.0	996	2160 min Summer	3.462	0.0	1408	2880 min Summer	2.754	0.0	1820	4320 min Summer	2.025	0.0	2636	5760 min Summer	1.648	0.0	3408	7200 min Summer	1.419	0.0	4184	8640 min Summer	1.264	0.0	4928	10080 min Summer	1.153	0.0	5648	15 min Winter	141.164	0.0	19
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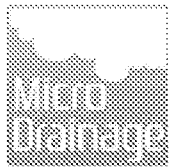
Odyssey				Page 2	
Tuscany House		Stakers Farm, Yapton - 19-156			
White Hart Lane		As built - Access Road			
Basingstoke RG21 4AF		Plots 3-8			
Date 20/04/2022 10:11		Designed by WindesPC5			
File As-built_Acces Road Flo...		Checked by			
Innovyze		Source Control 2020.1.3			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	6.664	0.388	0.2	14.2	Flood Risk
60 min Winter	6.719	0.443	0.3	18.6	Flood Risk
120 min Winter	6.757	0.481	0.3	21.8	Flood Risk
180 min Winter	6.779	0.503	0.3	23.6	Flood Risk
240 min Winter	6.791	0.515	0.3	24.7	Flood Risk
360 min Winter	6.803	0.527	0.3	25.7	Flood Risk
480 min Winter	6.807	0.531	0.3	25.9	Flood Risk
600 min Winter	6.807	0.531	0.3	25.9	Flood Risk
720 min Winter	6.804	0.528	0.3	25.7	Flood Risk
960 min Winter	6.795	0.519	0.3	25.0	Flood Risk
1440 min Winter	6.781	0.505	0.3	23.9	Flood Risk
2160 min Winter	6.760	0.484	0.3	22.0	Flood Risk
2880 min Winter	6.740	0.464	0.3	20.4	Flood Risk
4320 min Winter	6.707	0.431	0.2	17.6	Flood Risk
5760 min Winter	6.678	0.402	0.2	15.3	Flood Risk
7200 min Winter	6.653	0.377	0.2	13.4	Flood Risk
8640 min Winter	6.634	0.358	0.2	12.0	Flood Risk
10080 min Winter	6.618	0.342	0.2	10.9	Flood Risk
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	94.700	0.0	33		
60 min Winter	60.903	0.0	62		
120 min Winter	36.128	0.0	122		
180 min Winter	26.473	0.0	180		
240 min Winter	21.126	0.0	238		
360 min Winter	15.214	0.0	352		
480 min Winter	12.918	0.0	466		
600 min Winter	9.993	0.0	576		
720 min Winter	8.590	0.0	680		
960 min Winter	6.756	0.0	782		
1440 min Winter	4.823	0.0	1080		
2160 min Winter	3.462	0.0	1532		
2880 min Winter	2.754	0.0	1960		
4320 min Winter	2.025	0.0	2812		
5760 min Winter	1.648	0.0	3632		
7200 min Winter	1.419	0.0	4392		
8640 min Winter	1.264	0.0	5112		
10080 min Winter	1.153	0.0	5856		
©1982-2020 Innovyze					

Odyssey		Page 3																																	
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<u>Model Details</u> Storage is Online Cover Level (m) 6.846 <u>Complex Structure</u> <u>Porous Car Park</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Width (m)</td> <td>8.0</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>22.2</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>49.3</td> <td>Slope (1:X)</td> <td>70.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Invert Level (m)</td> <td>6.276</td> <td>Cap Volume Depth (m)</td> <td>0.440</td> </tr> </table> <u>Porous Car Park</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Width (m)</td> <td>5.0</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>10.0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>13.9</td> <td>Slope (1:X)</td> <td>70.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Invert Level (m)</td> <td>6.476</td> <td>Cap Volume Depth (m)</td> <td>0.440</td> </tr> </table> <u>Porous Car Park</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Width (m)</td> <td>4.1</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>26.5</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>30.2</td> <td>Slope (1:X)</td> <td>78.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Invert Level (m)</td> <td>6.591</td> <td>Cap Volume Depth (m)</td> <td>0.440</td> </tr> </table> <u>Porous Car Park</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Width (m)</td> <td>5.0</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>5.0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>6.9</td> <td>Slope (1:X)</td> <td>70.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Invert Level (m)</td> <td>6.679</td> <td>Cap Volume Depth (m)</td> <td>0.440</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00648	Width (m)	8.0	Membrane Percolation (mm/hr)	1000	Length (m)	22.2	Max Percolation (l/s)	49.3	Slope (1:X)	70.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.276	Cap Volume Depth (m)	0.440	Infiltration Coefficient Base (m/hr)	0.00648	Width (m)	5.0	Membrane Percolation (mm/hr)	1000	Length (m)	10.0	Max Percolation (l/s)	13.9	Slope (1:X)	70.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.476	Cap Volume Depth (m)	0.440	Infiltration Coefficient Base (m/hr)	0.00648	Width (m)	4.1	Membrane Percolation (mm/hr)	1000	Length (m)	26.5	Max Percolation (l/s)	30.2	Slope (1:X)	78.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.591	Cap Volume Depth (m)	0.440	Infiltration Coefficient Base (m/hr)	0.00648	Width (m)	5.0	Membrane Percolation (mm/hr)	1000	Length (m)	5.0	Max Percolation (l/s)	6.9	Slope (1:X)	70.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.679	Cap Volume Depth (m)	0.440
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<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	6.582	0.115	0.0	1.3	O K
60 min Winter	6.615	0.148	0.0	1.7	O K
120 min Winter	6.639	0.172	0.0	2.0	O K
180 min Winter	6.651	0.184	0.0	2.2	O K
240 min Winter	6.657	0.190	0.0	2.3	O K
360 min Winter	6.660	0.193	0.0	2.3	O K
480 min Winter	6.659	0.192	0.0	2.3	O K
600 min Winter	6.655	0.188	0.0	2.2	O K
720 min Winter	6.650	0.183	0.0	2.2	O K
960 min Winter	6.641	0.174	0.0	2.1	O K
1440 min Winter	6.622	0.155	0.0	1.8	O K
2160 min Winter	6.594	0.127	0.0	1.5	O K
2880 min Winter	6.570	0.103	0.0	1.2	O K
4320 min Winter	6.534	0.067	0.0	0.7	O K
5760 min Winter	6.516	0.049	0.0	0.5	O K
7200 min Winter	6.510	0.043	0.0	0.4	O K
8640 min Winter	6.506	0.039	0.0	0.4	O K
10080 min Winter	6.502	0.035	0.0	0.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	94.700	0.0	33		
60 min Winter	60.903	0.0	62		
120 min Winter	36.128	0.0	120		
180 min Winter	26.473	0.0	178		
240 min Winter	21.126	0.0	236		
360 min Winter	15.214	0.0	350		
480 min Winter	12.016	0.0	460		
600 min Winter	9.993	0.0	562		
720 min Winter	8.590	0.0	592		
960 min Winter	6.756	0.0	732		
1440 min Winter	4.823	0.0	1036		
2160 min Winter	3.462	0.0	1452		
2880 min Winter	2.754	0.0	1844		
4320 min Winter	2.025	0.0	2548		
5760 min Winter	1.648	0.0	3112		
7200 min Winter	1.419	0.0	3824		
8640 min Winter	1.264	0.0	4576		
10080 min Winter	1.153	0.0	5344		
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Odyssey		Page 3
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton As Built - Access Road Plots 15-19 (Ch.5-15)	
Date 20/04/2022 11:52 File As-built_Acces Road Plo...	Designed by WindesPC5 Checked by	
Innovyze	Source Control 2020.1.3	

Rainfall Details

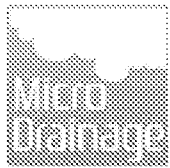
Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 497682 103581 SU 97682 03581
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.750
Cv (Winter)	0.840
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.004

	Time (mins)	Area	
From:	To:	(ha)	
	0	4	0.004

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Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton As Built - Access Road Plots 15-19 (Ch.5-15)	
Date 20/04/2022 11:52 File As-built_Acces Road Plo...	Designed by WindesPC5 Checked by	
Innovyze	Source Control 2020.1.3	

Model Details

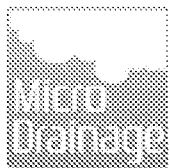
Storage is Online Cover Level (m) 6.992

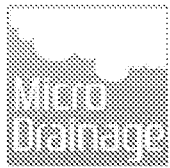
Porous Car Park Structure

Infiltration Coefficient Base (m/hr)	0.00612	Width (m)	4.1
Membrane Percolation (mm/hr)	1000	Length (m)	10.1
Max Percolation (l/s)	11.5	Slope (1:X)	673.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.467	Cap Volume Depth (m)	0.395

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Odyssey					Page 1
Tuscany House			Stakers Farm, Yapton		
White Hart Lane			As Built - Access Road		
Basingstoke RG21 4AF			Plots 15-19 (Ch.15 onwards)		
Date 20/04/2022 11:40			Designed by WindesPC5		
File As-built_Acces Road Flo...			Checked by		
Innovyze			Source Control 2020.1.3		
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Half Drain Time : 876 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	6.559	0.141	0.2	7.6	O K
30 min Summer	6.600	0.182	0.2	10.6	O K
60 min Summer	6.643	0.225	0.2	13.7	O K
120 min Summer	6.674	0.256	0.2	16.1	Flood Risk
180 min Summer	6.691	0.273	0.2	17.3	Flood Risk
240 min Summer	6.701	0.283	0.2	18.0	Flood Risk
360 min Summer	6.708	0.290	0.2	18.6	Flood Risk
480 min Summer	6.709	0.291	0.2	18.7	Flood Risk
600 min Summer	6.707	0.289	0.2	18.5	Flood Risk
720 min Summer	6.702	0.284	0.2	18.1	Flood Risk
960 min Summer	6.694	0.276	0.2	17.5	Flood Risk
1440 min Summer	6.678	0.260	0.2	16.4	Flood Risk
2160 min Summer	6.657	0.239	0.2	14.8	Flood Risk
2880 min Summer	6.639	0.221	0.2	13.5	O K
4320 min Summer	6.611	0.193	0.2	11.4	O K
5760 min Summer	6.589	0.171	0.2	9.8	O K
7200 min Summer	6.571	0.153	0.2	8.5	O K
8640 min Summer	6.557	0.139	0.2	7.5	O K
10080 min Summer	6.545	0.127	0.2	6.6	O K
15 min Winter	6.574	0.156	0.2	8.7	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	141.164	0.0	19		
30 min Summer	94.700	0.0	34		
60 min Summer	60.903	0.0	64		
120 min Summer	36.128	0.0	122		
180 min Summer	26.473	0.0	182		
240 min Summer	21.126	0.0	242		
360 min Summer	15.214	0.0	362		
480 min Summer	12.016	0.0	480		
600 min Summer	9.993	0.0	600		
720 min Summer	8.590	0.0	670		
960 min Summer	6.756	0.0	770		
1440 min Summer	4.823	0.0	1022		
2160 min Summer	3.462	0.0	1424		
2880 min Summer	2.754	0.0	1820		
4320 min Summer	2.025	0.0	2632		
5760 min Summer	1.648	0.0	3400		
7200 min Summer	1.419	0.0	4112		
8640 min Summer	1.264	0.0	4848		
10080 min Summer	1.153	0.0	5552		
15 min Winter	141.164	0.0	19		
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Odyssey		Page 2			
Tuscany House	Stakers Farm, Yapton				
White Hart Lane	As Built - Access Road				
Basingstoke RG21 4AF	Plots 15-19 (Ch.15 onwards)				
Date 20/04/2022 11:40	Designed by WindesPC5				
File As-built_Acces Road Flo...	Checked by				
Innovyze	Source Control 2020.1.3				
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	6.619	0.201	0.2	12.0	O K
60 min Winter	6.668	0.250	0.2	15.6	Flood Risk
120 min Winter	6.704	0.286	0.2	18.3	Flood Risk
180 min Winter	6.724	0.306	0.2	19.7	Flood Risk
240 min Winter	6.735	0.317	0.2	20.6	Flood Risk
360 min Winter	6.745	0.327	0.2	21.3	Flood Risk
480 min Winter	6.748	0.330	0.2	21.5	Flood Risk
600 min Winter	6.747	0.329	0.2	21.5	Flood Risk
720 min Winter	6.744	0.326	0.2	21.2	Flood Risk
960 min Winter	6.733	0.315	0.2	20.4	Flood Risk
1440 min Winter	6.712	0.294	0.2	18.9	Flood Risk
2160 min Winter	6.683	0.265	0.2	16.7	Flood Risk
2880 min Winter	6.656	0.238	0.2	14.7	Flood Risk
4320 min Winter	6.612	0.194	0.2	11.4	O K
5760 min Winter	6.577	0.159	0.2	9.0	O K
7200 min Winter	6.550	0.132	0.2	7.0	O K
8640 min Winter	6.528	0.110	0.2	5.5	O K
10080 min Winter	6.511	0.093	0.2	4.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	94.700	0.0	33		
60 min Winter	60.903	0.0	62		
120 min Winter	36.128	0.0	122		
180 min Winter	26.473	0.0	180		
240 min Winter	21.126	0.0	238		
360 min Winter	15.214	0.0	354		
480 min Winter	12.616	0.0	465		
600 min Winter	9.993	0.0	580		
720 min Winter	8.590	0.0	690		
960 min Winter	6.756	0.0	894		
1440 min Winter	4.823	0.0	1098		
2160 min Winter	3.462	0.0	1556		
2880 min Winter	2.754	0.0	1988		
4320 min Winter	2.025	0.0	2808		
5760 min Winter	1.648	0.0	3576		
7200 min Winter	1.419	0.0	4328		
8640 min Winter	1.264	0.0	5016		
10080 min Winter	1.153	0.0	5656		
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Odyssey		Page 3
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton As Built - Access Road Plots 15-19 (Ch.15 onwards)	
Date 20/04/2022 11:40 File As-built_Acces Road Flo...	Designed by WindesPC5 Checked by	
Innovyze	Source Control 2020.1.3	

Rainfall Details

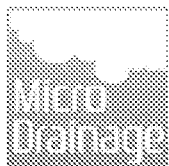
Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 497682 103581 SU 97682 03581
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.750
Cv (Winter)	0.840
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

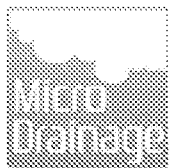
Total Area (ha) 0.034

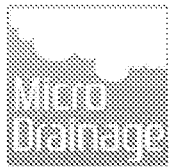
	Time (mins)	Area
From:	To:	(ha)
	0	4 0.034

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Odyssey		Page 4																																																																																																
Tuscany House	Stakers Farm, Yapton																																																																																																	
White Hart Lane	As Built - Access Road																																																																																																	
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Date 20/04/2022 11:40	Designed by WindesPC5																																																																																																	
File As-built_Acces Road Plo...	Checked by																																																																																																	
Innovyze	Source Control 2020.1.3																																																																																																	
Model Details Storage is Online Cover Level (m) 6.943 Complex Structure Porous Car Park <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00612</td><td>Width (m)</td><td>6.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>23.6</td></tr><tr><td>Max Percolation (l/s)</td><td>39.3</td><td>Slope (1:X)</td><td>726.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.418</td><td>Cap Volume Depth (m)</td><td>0.395</td></tr></table> Porous Car Park <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00612</td><td>Width (m)</td><td>5.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>5.0</td></tr><tr><td>Max Percolation (l/s)</td><td>6.9</td><td>Slope (1:X)</td><td>102.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.432</td><td>Membrane Depth (m)</td><td>0</td></tr></table> Porous Car Park <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00612</td><td>Width (m)</td><td>7.5</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>5.0</td></tr><tr><td>Max Percolation (l/s)</td><td>10.4</td><td>Slope (1:X)</td><td>29.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.447</td><td>Membrane Depth (m)</td><td>0</td></tr></table> Porous Car Park <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00612</td><td>Width (m)</td><td>4.1</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.4</td></tr><tr><td>Max Percolation (l/s)</td><td>11.8</td><td>Slope (1:X)</td><td>347.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.452</td><td>Cap Volume Depth (m)</td><td>0.395</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.00612	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	23.6	Max Percolation (l/s)	39.3	Slope (1:X)	726.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.418	Cap Volume Depth (m)	0.395	Infiltration Coefficient Base (m/hr)	0.00612	Width (m)	5.0	Membrane Percolation (mm/hr)	1000	Length (m)	5.0	Max Percolation (l/s)	6.9	Slope (1:X)	102.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.432	Membrane Depth (m)	0	Infiltration Coefficient Base (m/hr)	0.00612	Width (m)	7.5	Membrane Percolation (mm/hr)	1000	Length (m)	5.0	Max Percolation (l/s)	10.4	Slope (1:X)	29.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.447	Membrane Depth (m)	0	Infiltration Coefficient Base (m/hr)	0.00612	Width (m)	4.1	Membrane Percolation (mm/hr)	1000	Length (m)	10.4	Max Percolation (l/s)	11.8	Slope (1:X)	347.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.452	Cap Volume Depth (m)	0.395
Infiltration Coefficient Base (m/hr)	0.00612	Width (m)	6.0																																																																																															
Membrane Percolation (mm/hr)	1000	Length (m)	23.6																																																																																															
Max Percolation (l/s)	39.3	Slope (1:X)	726.0																																																																																															
Safety Factor	2.0	Depression Storage (mm)	5																																																																																															
Porosity	0.30	Evaporation (mm/day)	3																																																																																															
Invert Level (m)	6.418	Cap Volume Depth (m)	0.395																																																																																															
Infiltration Coefficient Base (m/hr)	0.00612	Width (m)	5.0																																																																																															
Membrane Percolation (mm/hr)	1000	Length (m)	5.0																																																																																															
Max Percolation (l/s)	6.9	Slope (1:X)	102.0																																																																																															
Safety Factor	2.0	Depression Storage (mm)	5																																																																																															
Porosity	0.30	Evaporation (mm/day)	3																																																																																															
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Max Percolation (l/s)	10.4	Slope (1:X)	29.0																																																																																															
Safety Factor	2.0	Depression Storage (mm)	5																																																																																															
Porosity	0.30	Evaporation (mm/day)	3																																																																																															
Invert Level (m)	6.447	Membrane Depth (m)	0																																																																																															
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Membrane Percolation (mm/hr)	1000	Length (m)	10.4																																																																																															
Max Percolation (l/s)	11.8	Slope (1:X)	347.0																																																																																															
Safety Factor	2.0	Depression Storage (mm)	5																																																																																															
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Invert Level (m)	6.452	Cap Volume Depth (m)	0.395																																																																																															
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Odyssey		Page 1			
Tuscany House	Stakers Farm, Yapton				
White Hart Lane	As Built - Access Road				
Basingstoke RG21 4AF	Plots 33-34				
Date 20/04/2022 12:10	Designed by WindesPC5				
File As-built_Acces Road Flo...	Checked by				
Innovyze	Source Control 2020.1.3				
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Half Drain Time : 591 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	6.697	0.153	0.2	4.4	O K
30 min Summer	6.726	0.182	0.2	6.2	O K
60 min Summer	6.756	0.212	0.2	8.1	O K
120 min Summer	6.778	0.234	0.2	9.5	Flood Risk
180 min Summer	6.789	0.245	0.2	10.2	Flood Risk
240 min Summer	6.795	0.251	0.2	10.5	Flood Risk
360 min Summer	6.797	0.253	0.2	10.7	Flood Risk
480 min Summer	6.796	0.252	0.2	10.6	Flood Risk
600 min Summer	6.793	0.249	0.2	10.4	Flood Risk
720 min Summer	6.791	0.247	0.2	10.3	Flood Risk
960 min Summer	6.785	0.241	0.2	9.9	Flood Risk
1440 min Summer	6.773	0.229	0.2	9.2	Flood Risk
2160 min Summer	6.756	0.212	0.2	8.1	O K
2880 min Summer	6.742	0.198	0.2	7.2	O K
4320 min Summer	6.720	0.176	0.2	5.8	O K
5760 min Summer	6.707	0.163	0.2	5.0	O K
7200 min Summer	6.698	0.154	0.2	4.5	O K
8640 min Summer	6.691	0.147	0.2	4.0	O K
10080 min Summer	6.686	0.142	0.1	3.7	O K
15 min Winter	6.708	0.164	0.2	5.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	141.164	0.0	19		
30 min Summer	94.700	0.0	33		
60 min Summer	60.903	0.0	64		
120 min Summer	36.128	0.0	122		
180 min Summer	26.473	0.0	182		
240 min Summer	21.126	0.0	242		
360 min Summer	15.214	0.0	360		
480 min Summer	12.016	0.0	450		
600 min Summer	9.993	0.0	500		
720 min Summer	8.590	0.0	558		
960 min Summer	6.756	0.0	684		
1440 min Summer	4.823	0.0	952		
2160 min Summer	3.462	0.0	1360		
2880 min Summer	2.754	0.0	1732		
4320 min Summer	2.025	0.0	2468		
5760 min Summer	1.648	0.0	3224		
7200 min Summer	1.419	0.0	3960		
8640 min Summer	1.264	0.0	4672		
10080 min Summer	1.153	0.0	5440		
15 min Winter	141.164	0.0	19		
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Odyssey		Page 2			
Tuscany House	Stakers Farm, Yapton				
White Hart Lane	As Built - Access Road				
Basingstoke RG21 4AF	Plots 33-34				
Date 20/04/2022 12:10	Designed by WindesPC5				
File As-built_Acces Road Flo...	Checked by				
Innovyze	Source Control 2020.1.3				
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	6.740	0.196	0.2	7.1	O K
60 min Winter	6.774	0.230	0.2	9.3	Flood Risk
120 min Winter	6.799	0.255	0.2	10.8	Flood Risk
180 min Winter	6.812	0.268	0.2	11.6	Flood Risk
240 min Winter	6.819	0.275	0.2	12.1	Flood Risk
360 min Winter	6.824	0.280	0.2	12.4	Flood Risk
480 min Winter	6.823	0.279	0.2	12.3	Flood Risk
600 min Winter	6.820	0.276	0.2	12.1	Flood Risk
720 min Winter	6.815	0.271	0.2	11.8	Flood Risk
960 min Winter	6.808	0.264	0.2	11.3	Flood Risk
1440 min Winter	6.791	0.247	0.2	10.3	Flood Risk
2160 min Winter	6.765	0.221	0.2	8.7	O K
2880 min Winter	6.744	0.200	0.2	7.3	O K
4320 min Winter	6.713	0.169	0.2	5.4	O K
5760 min Winter	6.697	0.153	0.2	4.4	O K
7200 min Winter	6.686	0.142	0.1	3.7	O K
8640 min Winter	6.677	0.133	0.1	3.2	O K
10080 min Winter	6.671	0.127	0.1	2.8	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	94.700	0.0	33		
60 min Winter	60.903	0.0	62		
120 min Winter	36.128	0.0	120		
180 min Winter	26.473	0.0	178		
240 min Winter	21.126	0.0	236		
360 min Winter	15.214	0.0	350		
480 min Winter	12.016	0.0	462		
600 min Winter	9.993	0.0	566		
720 min Winter	8.590	0.0	650		
960 min Winter	6.756	0.0	740		
1440 min Winter	4.823	0.0	1038		
2160 min Winter	3.462	0.0	1468		
2880 min Winter	2.754	0.0	1872		
4320 min Winter	2.025	0.0	2592		
5760 min Winter	1.648	0.0	3344		
7200 min Winter	1.419	0.0	4040		
8640 min Winter	1.264	0.0	4760		
10080 min Winter	1.153	0.0	5456		
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Odyssey		Page 3
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton As Built - Access Road Plots 33-34	
Date 20/04/2022 12:10 File As-built_Acces Road Plo...	Designed by WindesPC5 Checked by	
Innovyze	Source Control 2020.1.3	

Rainfall Details

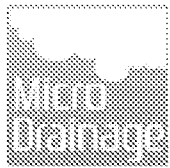
Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 497682 103581 SU 97682 03581
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.750
Cv (Winter)	0.840
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.021

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.021

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Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton As Built - Access Road Plots 33-34	
Date 20/04/2022 12:10 File As-built_Acces Road Plo...	Designed by WindesPC5 Checked by	
Innovyze	Source Control 2020.1.3	

Model Details

Storage is Online Cover Level (m) 7.069

Complex Structure

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00612	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	26.4
Max Percolation (l/s)	36.7	Slope (1:X)	211.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.544	Cap Volume Depth (m)	0.395

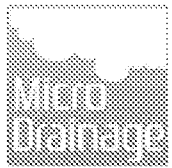
Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00612	Width (m)	8.8
Membrane Percolation (mm/hr)	1000	Length (m)	8.8
Max Percolation (l/s)	21.5	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.662	Cap Volume Depth (m)	0.395

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Odyssey				Page 1	
Tuscany House		Stakers Farm, Yapton - 19-156			
White Hart Lane		As Built - Access Road			
Basingstoke RG21 4AF		Plot 35			
Date 19/04/2022 10:06		Designed by WindesPC5			
File As-built_Acces Road Flo...		Checked by			
Innovyze		Source Control 2020.1.3			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Half Drain Time : 824 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	6.718	0.293	0.1	2.6	O K
30 min Summer	6.772	0.347	0.1	3.6	O K
60 min Summer	6.822	0.397	0.1	4.8	O K
120 min Summer	6.856	0.431	0.1	5.6	O K
180 min Summer	6.873	0.448	0.1	6.0	Flood Risk
240 min Summer	6.882	0.457	0.1	6.3	Flood Risk
360 min Summer	6.890	0.465	0.1	6.5	Flood Risk
480 min Summer	6.891	0.466	0.1	6.6	Flood Risk
600 min Summer	6.890	0.465	0.1	6.5	Flood Risk
720 min Summer	6.888	0.463	0.1	6.5	Flood Risk
960 min Summer	6.883	0.458	0.1	6.3	Flood Risk
1440 min Summer	6.875	0.450	0.1	6.1	Flood Risk
2160 min Summer	6.861	0.436	0.1	5.7	Flood Risk
2880 min Summer	6.849	0.424	0.1	5.4	O K
4320 min Summer	6.827	0.402	0.1	4.9	O K
5760 min Summer	6.810	0.385	0.1	4.5	O K
7200 min Summer	6.796	0.371	0.1	4.2	O K
8640 min Summer	6.785	0.360	0.1	3.9	O K
10080 min Summer	6.775	0.350	0.1	3.7	O K
15 min Winter	6.739	0.314	0.1	3.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	141.164	0.0	19		
30 min Summer	94.700	0.0	34		
60 min Summer	60.903	0.0	64		
120 min Summer	36.128	0.0	122		
180 min Summer	26.473	0.0	182		
240 min Summer	21.126	0.0	242		
360 min Summer	15.214	0.0	362		
480 min Summer	12.016	0.0	480		
600 min Summer	9.993	0.0	562		
720 min Summer	8.590	0.0	612		
960 min Summer	6.756	0.0	732		
1440 min Summer	4.823	0.0	994		
2160 min Summer	3.462	0.0	1404		
2880 min Summer	2.754	0.0	1816		
4320 min Summer	2.025	0.0	2632		
5760 min Summer	1.648	0.0	3400		
7200 min Summer	1.419	0.0	4176		
8640 min Summer	1.264	0.0	4928		
10080 min Summer	1.153	0.0	5656		
15 min Winter	141.164	0.0	19		
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Odyssey				Page 2	
Tuscany House White Hart Lane Basingstoke RG21 4AF		Stakers Farm, Yapton - 19-156 As Built - Access Road Plot 35			
Date 19/04/2022 10:06 File As-built_Acces Road Flo...		Designed by WindesPC5 Checked by			
Innovyze		Source Control 2020.1.3			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	6.795	0.370	0.1	4.1	O K
60 min Winter	6.849	0.424	0.1	5.4	O K
120 min Winter	6.884	0.459	0.1	6.4	Flood Risk
180 min Winter	6.903	0.478	0.1	6.9	Flood Risk
240 min Winter	6.913	0.488	0.1	7.2	Flood Risk
360 min Winter	6.922	0.497	0.1	7.4	Flood Risk
480 min Winter	6.924	0.499	0.1	7.5	Flood Risk
600 min Winter	6.924	0.499	0.1	7.5	Flood Risk
720 min Winter	6.921	0.496	0.1	7.4	Flood Risk
960 min Winter	6.915	0.490	0.1	7.2	Flood Risk
1440 min Winter	6.903	0.478	0.1	6.9	Flood Risk
2160 min Winter	6.884	0.459	0.1	6.4	Flood Risk
2880 min Winter	6.866	0.441	0.1	5.9	Flood Risk
4320 min Winter	6.835	0.410	0.1	5.1	O K
5760 min Winter	6.809	0.384	0.1	4.4	O K
7200 min Winter	6.788	0.363	0.1	4.0	O K
8640 min Winter	6.770	0.345	0.1	3.6	O K
10080 min Winter	6.755	0.330	0.1	3.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	94.700	0.0	33		
60 min Winter	60.903	0.0	62		
120 min Winter	36.128	0.0	122		
180 min Winter	26.473	0.0	180		
240 min Winter	21.126	0.0	238		
360 min Winter	15.214	0.0	352		
480 min Winter	12.616	0.0	464		
600 min Winter	9.993	0.0	572		
720 min Winter	8.590	0.0	676		
960 min Winter	6.756	0.0	764		
1440 min Winter	4.823	0.0	1068		
2160 min Winter	3.462	0.0	1516		
2880 min Winter	2.754	0.0	1960		
4320 min Winter	2.025	0.0	2808		
5760 min Winter	1.648	0.0	3584		
7200 min Winter	1.419	0.0	4392		
8640 min Winter	1.264	0.0	5184		
10080 min Winter	1.153	0.0	5944		
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Odyssey		Page 3
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As Built - Access Road Plot 35	
Date 19/04/2022 10:06 File As-built_Acces Road Plo...	Designed by WindesPC5 Checked by	
Innovyze	Source Control 2020.1.3	

Rainfall Details

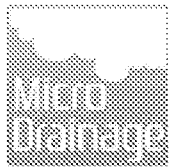
Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 497682 103581 SU 97682 03581
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.750
Cv (Winter)	0.840
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.012

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.012

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Odyssey		Page 4																								
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As Built - Access Road Plot 35																									
Date 19/04/2022 10:06 File As-built_Acces Road Plo...	Designed by WindesPC5 Checked by																									
Innovyze	Source Control 2020.1.3																									
<u>Model Details</u> Storage is Online Cover Level (m) 7.160 <u>Porous Car Park Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Width (m)</td> <td>4.1</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>27.2</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>31.0</td> <td>Slope (1:X)</td> <td>49.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Invert Level (m)</td> <td>6.425</td> <td>Membrane Depth (m)</td> <td>0</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00648	Width (m)	4.1	Membrane Percolation (mm/hr)	1000	Length (m)	27.2	Max Percolation (l/s)	31.0	Slope (1:X)	49.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.425	Membrane Depth (m)	0
Infiltration Coefficient Base (m/hr)	0.00648	Width (m)	4.1																							
Membrane Percolation (mm/hr)	1000	Length (m)	27.2																							
Max Percolation (l/s)	31.0	Slope (1:X)	49.0																							
Safety Factor	2.0	Depression Storage (mm)	5																							
Porosity	0.30	Evaporation (mm/day)	3																							
Invert Level (m)	6.425	Membrane Depth (m)	0																							
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APPENDIX E

Pervious Pavement Weirs Evidence

Site Name: Stakers Farm, Yaptan



Revision: A

4-20-10

26 May 2021 at 09:59:55
Arundel
Dams past F2



26 May 2021 at 15:32:48
Arundel
Kurb brace











Appendix F

Pervious Pavement Geocellular Storage Evidence









