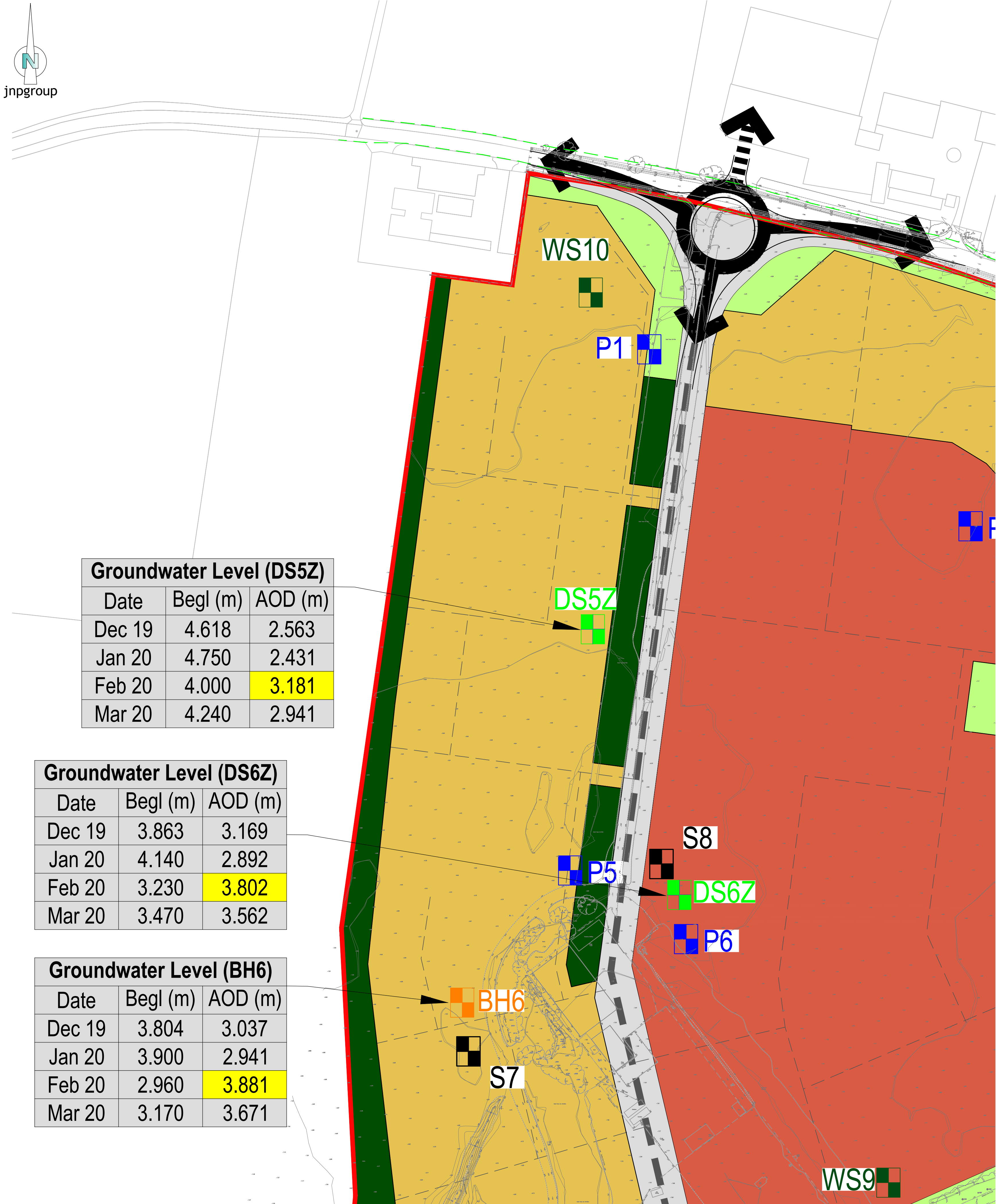


Appendix F

The Ford Road Roundabout Soakaway (Option)



- Notes:-
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 - All working dimensions to be checked on site.
 - Do not scale.
 - Any discrepancies between drawings of different scales, and between drawings and specification where appropriate to be notified to The Engineer for decision.
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Health and Safety Note:
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Legend
Site Boundary

Rev.	Date	Amendment	By	Chk.	
Status					
Indicative					







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Tel: 01494 771221 E-mail: chesham@jnpgroup.co.uk

Client	Wates Redrow
Job	Ford Airfield
Title	Ford Road Proposed Roundabout Groundwater Levels

Scale	1:1000	@ A1	Date	October 2020
Drawn by	IS	Checked by		Approved by
				
Accredited Contractor				
Supplier No. 000000				

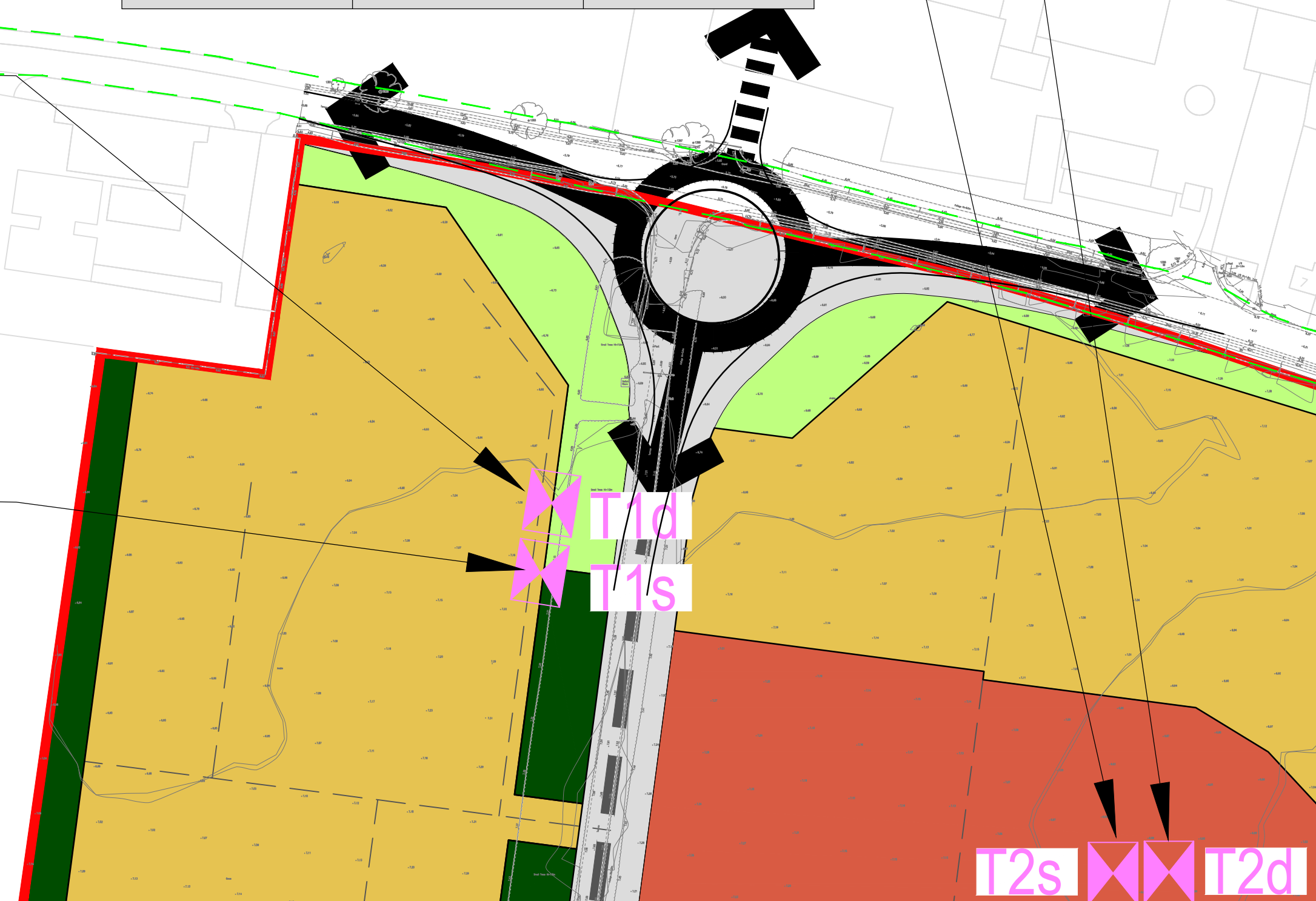
Drawing No.	C85228-D150	Rev.	-
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Infiltration Test (T2d)		
Test no	Depth (m)	Infiltration Rate (m/s)
1	1.500	1.60x10-6
2	1.500	1.58x10-6
3	1.500	1.55x10-6

Infiltration Test (T2s)		
Test no	Depth (m)	Infiltration Rate (m/s)
1	0.750	3.47x10-6
2	0.750	3.65x10-6
3	0.750	3.34x10-6

Infiltration Test (T1d)		
Test no	Depth (m)	Infiltration Rate (m/s)
1	1.800	1.89x10-5
2	1.800	1.79x10-5
3	1.800	1.64x10-5

Infiltration Test (T1d)		
Test no	Depth (m)	Infiltration Rate (m/s)
1	0.750	1.07x10-5
2	0.750	9.51x10-6
3	0.750	7.93x10-6



Notes:-

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3. Do not scale.
4. Any discrepancies between drawings of different scales, and between drawings and specification where appropriate to be notified to The Engineer for decision.
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Legend

Soakaway Test carried out by
RSK dated February 2020

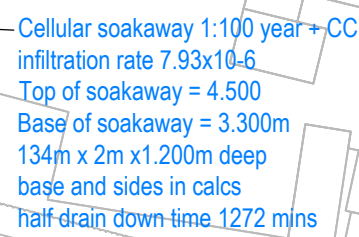
Rev.	Date	Amendment	By	Chk.
Status				
Indicative				

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Client	Wates Redrow
Job	Ford Airfield
Title	Ford Road Proposed Roundabout Infiltration Rates

Scale 1:1000		@ A1	Date	October 2020
Drawn by		IS	Checked by	Approved by
    	012 Accredited Contractor Supplier No. 000026			

Drawing No.	Rev.
C85228-D151	-



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3. Do not scale

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Health and Safety Note:
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Site boundary
 Surface water sewer
 Surface water rising main
 Surface water catchment boundary
 Foul water rising main
 Existing ground contour
 Proposed road contours

Rev.	Date	Amendment	By	Chk.
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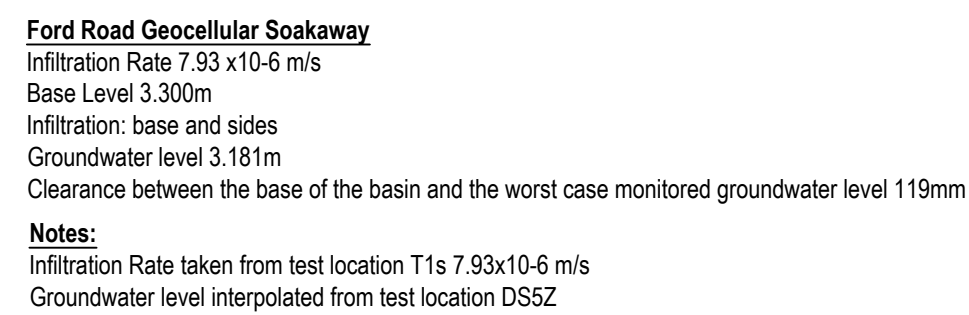


Job Ford Airfield

Drawn by	IS	Checked by	Approved by
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Drawing No.	Rev.
C85228-D152	-



1:1000



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2. All working dimensions to be checked on site.
3. Do not scale.
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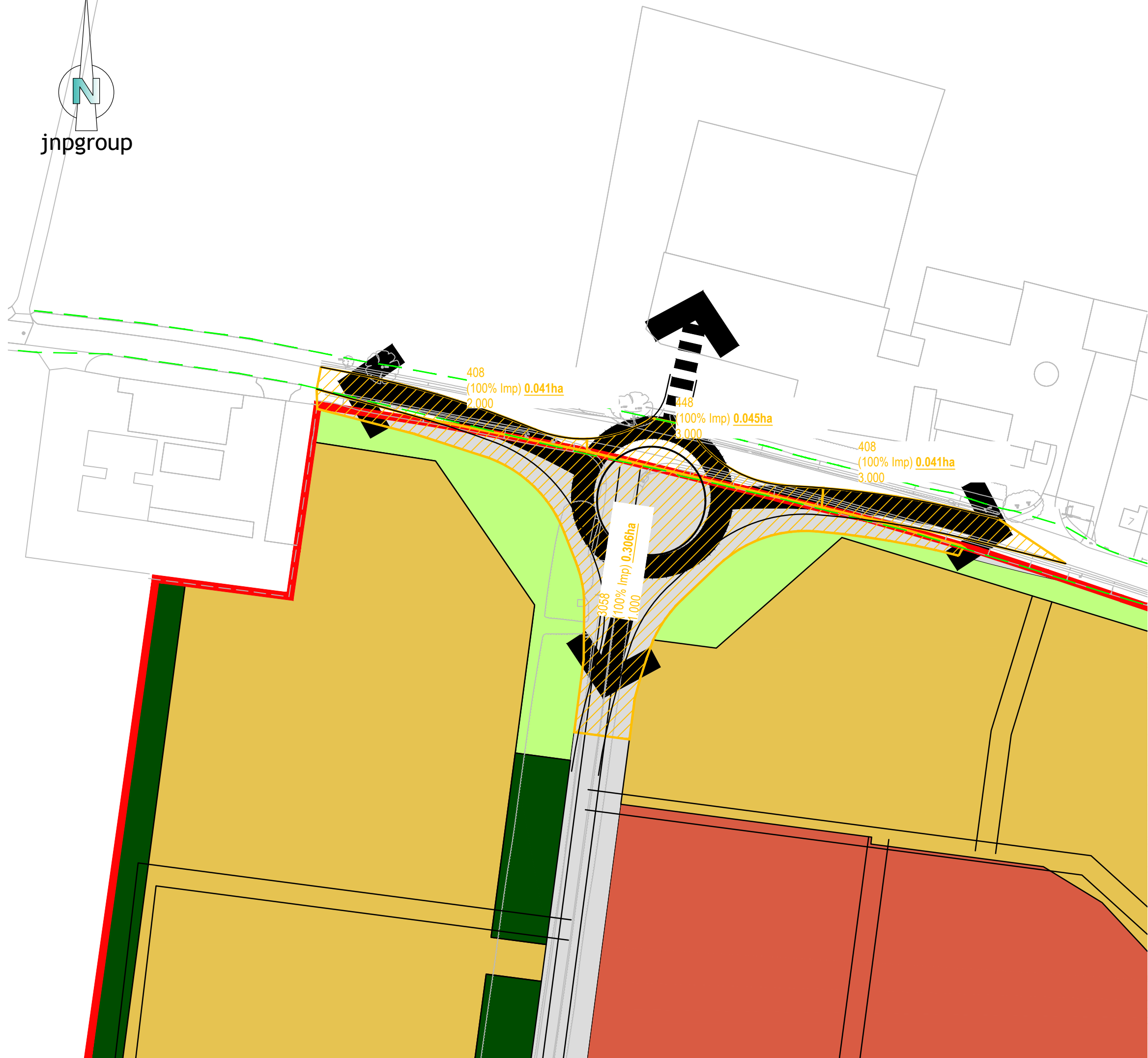
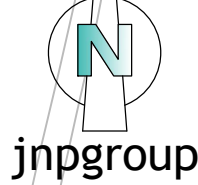
 Site boundary
 Surface water sewer
 Existing ground contour
 Proposed road contours

Rev.	Date	Amendment	By	Chk.
Status Indicative				



Client	Wates Redrow		
Job	Ford Airfield		
Title	Ford Road Proposed Roundabout Geocellular Soakaway Plan Layout and Sections		
Scale	As Shown	@ A1	Date October 2020
Drawn by	IS	Checked by	Approved by
    			
Accredited Contractor			Supplier No: 000020

Drawing No.	Rev.
C85228-D153	-



Ford Road Roundabout Impermeable Areas		
Pipe No.	Spine Road (ha)	Total (ha)
1.000	0.306	0.306
1.001	0.000	0.000
2.000	0.041	0.041
2.001	0.000	0.000
3.000	0.086	0.086
3.001	0.000	0.000
Overall Total =		0.433

- Notes:-
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Rev.	Date	Amendment	By	Chk.	
Status					
Indicative					



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Tel: 01926 889955 E-mail: leamingtonspa@jnpgroup.co.uk

Client	Wates Redrow
Job	Ford Airfield
Title	Ford Road Proposed Roundabout Surface Water Drainage Areas
Scale	1:1000 @ A1
Date	November 2020
Drawn by	IS
Checked by	
Approved by	
   	
Supplier No. 000020	

Drawing No.	C85228-D154	Rev.	-
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JNP Group				Page 1																																																																																																																																																																																																																			
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 1272 minutes. <table><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><tr><td>15 min Summer</td><td>3.754</td><td>0.454</td><td>1.5</td><td>115.6</td><td>0 K</td></tr><tr><td>30 min Summer</td><td>3.906</td><td>0.606</td><td>1.7</td><td>154.4</td><td>0 K</td></tr><tr><td>60 min Summer</td><td>4.067</td><td>0.767</td><td>1.9</td><td>195.3</td><td>0 K</td></tr><tr><td>120 min Summer</td><td>4.187</td><td>0.887</td><td>2.0</td><td>225.8</td><td>0 K</td></tr><tr><td>180 min Summer</td><td>4.252</td><td>0.952</td><td>2.1</td><td>242.3</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>4.292</td><td>0.992</td><td>2.1</td><td>252.5</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>4.332</td><td>1.032</td><td>2.2</td><td>262.8</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>4.347</td><td>1.047</td><td>2.2</td><td>266.6</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>4.349</td><td>1.049</td><td>2.2</td><td>267.1</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>4.344</td><td>1.044</td><td>2.2</td><td>265.7</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>4.321</td><td>1.021</td><td>2.2</td><td>259.9</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>4.281</td><td>0.981</td><td>2.1</td><td>249.8</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>4.229</td><td>0.929</td><td>2.1</td><td>236.5</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>4.185</td><td>0.885</td><td>2.0</td><td>225.3</td><td>0 K</td></tr><tr><td>4320 min Summer</td><td>4.122</td><td>0.822</td><td>1.9</td><td>209.4</td><td>0 K</td></tr><tr><td>5760 min Summer</td><td>4.077</td><td>0.777</td><td>1.9</td><td>197.7</td><td>0 K</td></tr><tr><td>7200 min Summer</td><td>4.042</td><td>0.742</td><td>1.9</td><td>188.8</td><td>0 K</td></tr><tr><td>8640 min Summer</td><td>4.013</td><td>0.713</td><td>1.8</td><td>181.6</td><td>0 K</td></tr><tr><td>10080 min Summer</td><td>3.989</td><td>0.689</td><td>1.8</td><td>175.4</td><td>0 K</td></tr><tr><td>15 min Winter</td><td>3.809</td><td>0.509</td><td>1.6</td><td>129.6</td><td>0 K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>144.480</td><td>0.0</td><td>27</td></tr><tr><td>30 min Summer</td><td>96.880</td><td>0.0</td><td>41</td></tr><tr><td>60 min Summer</td><td>61.880</td><td>0.0</td><td>70</td></tr><tr><td>120 min Summer</td><td>36.470</td><td>0.0</td><td>130</td></tr><tr><td>180 min Summer</td><td>26.599</td><td>0.0</td><td>188</td></tr><tr><td>240 min Summer</td><td>21.175</td><td>0.0</td><td>248</td></tr><tr><td>360 min Summer</td><td>15.237</td><td>0.0</td><td>366</td></tr><tr><td>480 min Summer</td><td>12.017</td><td>0.0</td><td>484</td></tr><tr><td>600 min Summer</td><td>9.983</td><td>0.0</td><td>602</td></tr><tr><td>720 min Summer</td><td>8.575</td><td>0.0</td><td>722</td></tr><tr><td>960 min Summer</td><td>6.743</td><td>0.0</td><td>898</td></tr><tr><td>1440 min Summer</td><td>4.824</td><td>0.0</td><td>1128</td></tr><tr><td>2160 min Summer</td><td>3.467</td><td>0.0</td><td>1520</td></tr><tr><td>2880 min Summer</td><td>2.759</td><td>0.0</td><td>1936</td></tr><tr><td>4320 min Summer</td><td>2.030</td><td>0.0</td><td>2768</td></tr><tr><td>5760 min Summer</td><td>1.652</td><td>0.0</td><td>3584</td></tr><tr><td>7200 min Summer</td><td>1.422</td><td>0.0</td><td>4400</td></tr><tr><td>8640 min Summer</td><td>1.267</td><td>0.0</td><td>5192</td></tr><tr><td>10080 min Summer</td><td>1.155</td><td>0.0</td><td>5960</td></tr><tr><td>15 min Winter</td><td>144.480</td><td>0.0</td><td>26</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	3.754	0.454	1.5	115.6	0 K	30 min Summer	3.906	0.606	1.7	154.4	0 K	60 min Summer	4.067	0.767	1.9	195.3	0 K	120 min Summer	4.187	0.887	2.0	225.8	0 K	180 min Summer	4.252	0.952	2.1	242.3	Flood Risk	240 min Summer	4.292	0.992	2.1	252.5	Flood Risk	360 min Summer	4.332	1.032	2.2	262.8	Flood Risk	480 min Summer	4.347	1.047	2.2	266.6	Flood Risk	600 min Summer	4.349	1.049	2.2	267.1	Flood Risk	720 min Summer	4.344	1.044	2.2	265.7	Flood Risk	960 min Summer	4.321	1.021	2.2	259.9	Flood Risk	1440 min Summer	4.281	0.981	2.1	249.8	Flood Risk	2160 min Summer	4.229	0.929	2.1	236.5	Flood Risk	2880 min Summer	4.185	0.885	2.0	225.3	0 K	4320 min Summer	4.122	0.822	1.9	209.4	0 K	5760 min Summer	4.077	0.777	1.9	197.7	0 K	7200 min Summer	4.042	0.742	1.9	188.8	0 K	8640 min Summer	4.013	0.713	1.8	181.6	0 K	10080 min Summer	3.989	0.689	1.8	175.4	0 K	15 min Winter	3.809	0.509	1.6	129.6	0 K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	144.480	0.0	27	30 min Summer	96.880	0.0	41	60 min Summer	61.880	0.0	70	120 min Summer	36.470	0.0	130	180 min Summer	26.599	0.0	188	240 min Summer	21.175	0.0	248	360 min Summer	15.237	0.0	366	480 min Summer	12.017	0.0	484	600 min Summer	9.983	0.0	602	720 min Summer	8.575	0.0	722	960 min Summer	6.743	0.0	898	1440 min Summer	4.824	0.0	1128	2160 min Summer	3.467	0.0	1520	2880 min Summer	2.759	0.0	1936	4320 min Summer	2.030	0.0	2768	5760 min Summer	1.652	0.0	3584	7200 min Summer	1.422	0.0	4400	8640 min Summer	1.267	0.0	5192	10080 min Summer	1.155	0.0	5960	15 min Winter	144.480	0.0	26
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8640 min Summer	1.267	0.0	5192																																																																																																																																																																																																																				
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15 min Winter	144.480	0.0	26																																																																																																																																																																																																																				
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3rd Floor, Marlborough House 48 Holly Walk Leamington Spa CV32 4XP		Ford Airfield System 6 Ford Road Roundabout Soakaway			
Date 10/12/2020 File Ford Roundabout QSE		Designed by IS Checked by AM			
Micro Drainage		Source Control 2018.1.1			
Summary of Results for 100 year Return Period (+40%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	3.980	0.680	1.8	173.2	0 K
60 min Winter	4.161	0.861	2.0	219.3	0 K
120 min Winter	4.298	0.998	2.1	254.0	Flood Risk
180 min Winter	4.373	1.073	2.2	273.1	Flood Risk
240 min Winter	4.420	1.120	2.3	285.1	Flood Risk
360 min Winter	4.469	1.169	2.3	297.7	Flood Risk
480 min Winter	4.490	1.190	2.3	303.0	Flood Risk
600 min Winter	4.497	1.197	2.3	304.8	Flood Risk
720 min Winter	4.495	1.195	2.3	304.3	Flood Risk
960 min Winter	4.478	1.178	2.3	300.0	Flood Risk
1440 min Winter	4.428	1.128	2.3	287.2	Flood Risk
2160 min Winter	4.366	1.066	2.2	271.5	Flood Risk
2880 min Winter	4.306	1.006	2.1	256.2	Flood Risk
4320 min Winter	4.211	0.911	2.0	231.9	Flood Risk
5760 min Winter	4.136	0.836	2.0	212.8	0 K
7200 min Winter	4.075	0.775	1.9	197.4	0 K
8640 min Winter	4.025	0.725	1.8	184.6	0 K
10080 min Winter	3.982	0.682	1.8	173.6	0 K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	96.880	0.0	41		
60 min Winter	61.880	0.0	70		
120 min Winter	36.470	0.0	128		
180 min Winter	26.599	0.0	186		
240 min Winter	21.175	0.0	244		
360 min Winter	15.237	0.0	360		
480 min Winter	12.017	0.0	474		
600 min Winter	9.983	0.0	588		
720 min Winter	8.575	0.0	700		
960 min Winter	6.743	0.0	918		
1440 min Winter	4.824	0.0	1172		
2160 min Winter	3.467	0.0	1624		
2880 min Winter	2.759	0.0	2084		
4320 min Winter	2.030	0.0	2988		
5760 min Winter	1.652	0.0	3864		
7200 min Winter	1.422	0.0	4688		
8640 min Winter	1.267	0.0	5536		
10080 min Winter	1.155	0.0	6352		
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<u>Model Details</u> Storage is Online Cover Level (m) 4.500 <u>Cellular Storage Structure</u> Invert Level (m) 3.300 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.02850 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.02850 <table border="1"> <thead> <tr> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> </tr> </thead> <tbody> <tr> <td>0.000</td> <td>268.0</td> <td>268.0</td> <td>1.300</td> <td>0.0</td> <td>594.4</td> </tr> <tr> <td>1.200</td> <td>268.0</td> <td>594.4</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	0.000	268.0	268.0	1.300	0.0	594.4	1.200	268.0	594.4			
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