

Project Name : Land South of Old Bath Road, Sonning, Wokingham

Note Title : Addendum No.2 - Flood Risk Assessment and Drainage Strategy

Author : HG

Checked : HG

Date : 6<sup>TH</sup> July 2024

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## 1.0 INTRODUCTION

1.1 JUDWAA has been commissioned by Arlington Retirement Lifestyles to undertake a Flood Risk Assessment (FRA), incorporating a surface water and foul drainage strategy aimed at supporting an outline planning application for the development proposals at the above site in Sonning, Reading.

1.2 The development proposals comprise the demolition of the existing dwelling units and the construction of a standard flatted scheme C3 complex comprising of 57 units. Refer to **Appendix D** for proposed site layout.

1.3 A planning application was submitted to Wokingham Borough Council (WBC) in July 2020 (ref. 201833) along with the FRA and drainage strategy. Comments have been received from WBC in their capacity as a Lead Local Flood Authority (LLFA) in August 2020. A copy of WBC's letter can be found in **Appendix A**.

1.4 The queries raised by WBC are quoted below.

1. *Recommended calculations to be submitted using industry standard software Micro-drainage.*
2. *A surface water drainage layout showing all proposed pipe connections.*
3. *Further explanation to show how exceeding events will be adequately catered for. LLFA requires to see exceedance layout plan showing direction of flow as where surface water will flow in case of drainage failure or any event above 1 in 100.*
4. *Any overland flow needs to be captured before coming to proposed site.*

1.5 This Addendum, which should be read in conjunction with the original FRA submitted in July 2020, addresses all the points raised by WBC, and seeks to provide additional information to ensure a robust assessment is undertaken.

## 2.0 RESPONSE TO WOKINGHAM BOROUGH COUNCIL COMMENTS

### ***Recommended calculations to be submitted using industry standard software Micro-drainage.***

2.1 JUDWAA utilised FLOW software developed by Causeway for all the drainage calculations. Causeway Flow drainage design and modelling software is built on the Modified Rational method for sizing conveyance systems and the state-of-the-art 1D SWMM engine for hydraulically analysing storm, SuDS or a combination of traditional and sustainable drainage systems.

2.2 The software has been bench marked to ensure outputs are compliant with United Kingdom (UK) specific drainage design requirements and compatible with AutoCAD and Civils 3D. It is also fully compliant with BIM.

2.3 This software is widely accepted by Lead Local Flood Authorities such as Hampshire County Council and West Berkshire Council. However, JUDWAA has included a full set of Micro Drainage Calculations along with those from FLOW. Refer to **Appendix B**.

### ***A surface water drainage layout showing all proposed pipe connections***

2.4 The surface water runoff generated by the proposed development will be attenuated in large areas of permeable paving prior to discharge into the ground by infiltration. Due to the even spread of the runoff generated over the wide areas, there would not be the requirement for large strategic sewers to convey surface water to say a single collection point.

2.5 The runoff will be fed into the permeable paving via private sewers limited in size to 150mm via diffusers usually specified at the detailed design phase other than at outline planning application level. The drainage strategy plan has now been annotated with the main private runs around the proposed buildings. Refer to Drawing J014-DS-101 in **Appendix B**.

### ***Further explanation to show how exceeding events will be adequately catered for. LLFA requires to see exceedance layout plan showing direction of flow as where surface water will flow in case of drainage failure or any event above 1 in 100***

2.6 The attenuation features have been designed to accommodate all events up to the 1 in 100 year plus 40% allowance to account for climate change. The exceedance flow routes for unlikely events greater than the 1 in 100 year plus climate change have been added onto the updated drainage strategy plan. Refer to Drawing J014-DS-101 in **Appendix B**.

***Any overland flow needs to be captured before coming to proposed site***

2.7 As previously discussed in section 5.2 of the Flood Risk Assessment, there are no overland flows routed through the site from catchments off site. There are small pockets on the eastern edge of the site boundary shown to be at 'low' and 'medium' risk of flooding. These are localised low spots as confirmed by the topographical survey and are not linked to overland flows from areas offsite. There are no historical records of overland flows entering the site and the runoff generated in the surrounded areas mainly infiltrates into the ground. Refer to the site topographical survey in **Appendix C**.

## **APPENDIX A**

### **Wokingham Borough Council Comments**

**Date:** 30 July 2020  
**Application:** 201833



**WOKINGHAM**  
**BOROUGH COUNCIL**

WBC Drainage

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Development Management

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P.O. Box 157

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Shute End, Wokingham

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Berkshire, RG40 1BN

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Tel: (0118) 974 6000

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Minicom No: (0118) 974 6991

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Dear WBC Drainage,

**Outline Planning Approval Consultation**

**Application Number:** 201833

**Applicant:** Arlington Retirement Lifestyles

**Site Address:** Land South of Old Bath Road Sonning, RG4 6GQ

**Parish:** Sonning

**Grid Reference:** Easting - , Northing -

**Proposal:** Outline application with Appearance and landscaping reserved for the proposed 57 dwellings suitable for older persons accommodation (Use Class C3) with consideration of means of access, layout and scale to be determined. Following demolition of existing dwellings.

Please find attached a consultation from the Development Management team for the above site. The documents associated with this are available to view in Information at Work. Below is a recommended consultation response template. We would be grateful if you could utilise this template for responses where appropriate. Once complete, please index this response into Information at Work against the application 201833. If working outside of WBC i.e. **Environmental Health, Giles Sutton Ecology or Consultant Conservation Officer**, then email your response to [planning.enquiries@wokingham.gov.uk](mailto:planning.enquiries@wokingham.gov.uk).

If you are recommending conditions please note that recommended conditions should also include reasons and relevant policies stating why the condition is required. A list of standard conditions can be found on the Z Drive at: [Z:\Standard Planning Conditions](#)

Your observations are required in respect of this application within **10 working days** of the above date.

Yours sincerely,  
Development Management

# MEMORANDUM

|                         |                                                                                                                                                                                                                                                                          |                |        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------|
| <b>From:</b>            | Kiril Nalbantov<br>Flood Risk & Drainage                                                                                                                                                                                                                                 |                |        |
| <b>Service</b>          | WBC Drainage                                                                                                                                                                                                                                                             | <b>App No:</b> | 201833 |
| <b>Address:</b>         | Land South of Old Bath Road Sonning, RG4 6GQ.                                                                                                                                                                                                                            |                |        |
| <b>Proposal:</b>        | Outline application with Appearance and landscaping reserved for the proposed 57 dwellings suitable for older persons accommodation (Use Class C3) with consideration of means of access, layout and scale to be determined. Following demolition of existing dwellings. |                |        |
| <b>Site Visit Made:</b> | No                                                                                                                                                                                                                                                                       |                |        |

## Summary Of Recommendations

- ☐ Recommend approval but with condition(s) & reason(s) **stated below**;
- ☐ Recommend approval with no conditions
- ☐ Recommend refusal for the reason(s) **stated below**;
- ☒ Request further information before determination as **stated below**.

## Comments On Proposal

It is in reference to the above application received by LLFA on 30<sup>th</sup> July 2020 for comment on the management of surface water. This is a outline application with Appearance and landscaping reserved for the proposed 57 dwellings suitable for older persons accommodation (Use Class C3) with consideration of means of access, layout and scale to be determined. Following demolition of existing dwellings.

The site is situated principally with in flood zone 1 as demonstrated by the EA's interactive web based mapping service. The submitted FRA provided good information but does not completely satisfy the strategy developed for surface water runoff generated from the proposed development.

**LLFA requires more information including the following.**

The submitted FRA provided good information but does not completely satisfy the strategy developed for surface water runoff generated from the proposed development. Although Causeway provided very brief calculations, but No calculations have been submitted.

Based on the above, we would have we require further information

1. Recommended calculations to be submitted using industry standard software Micro-drainage
2. A surface water drainage layout showing all proposed pipe connections.
3. Further explanation to show how exceeding events will be adequately catered for. LLFA requires to see exceedance layout plan showing direction of flow as where surface water will flow in case of drainage failure or any event above 1 in 100.
4. Any overland flow needs to be captured before coming to proposed site.

#### **Conditions & Reasons (if required)**

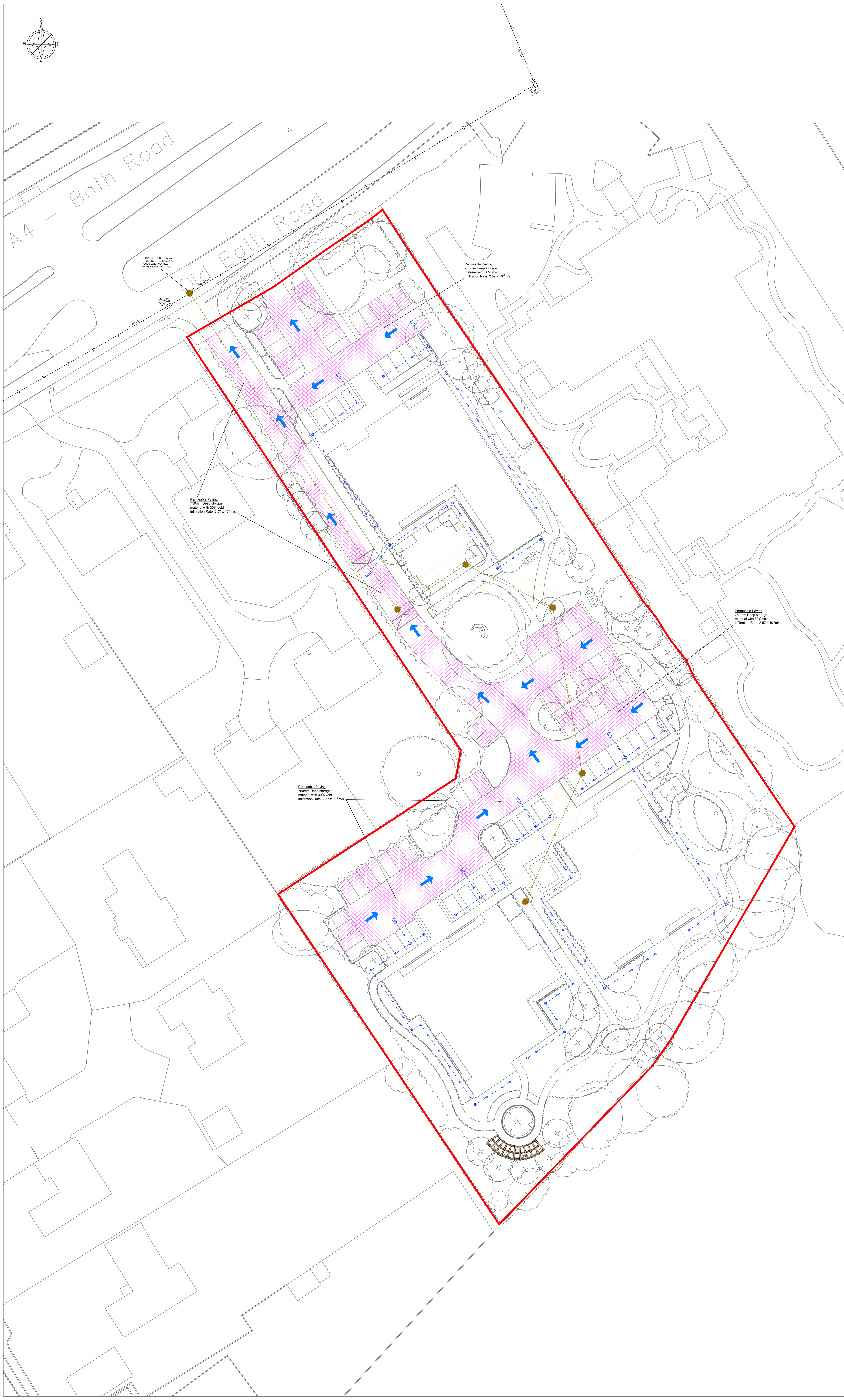
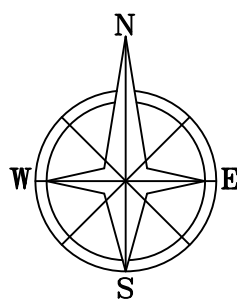
##### **Reasons**

This is to prevent increased flood risk from surface water run-off. Relevant policy: NPPF Section 10 (Meeting the Challenge of Climate Change, Flooding and Coastal Change), Core Strategy policy CP1 and Managing Development Delivery Local Plan policies CC09 and CC10.

|              |            |                |                 |
|--------------|------------|----------------|-----------------|
| <b>Date:</b> | 31.07.2020 | <b>Signed:</b> | Kiril Nalbantov |
|--------------|------------|----------------|-----------------|

## **APPENDIX B**

### **Proposed Drainage Strategy and Micro Drainage Calculations**



NOTES

- DO NOT SCALE FROM THIS DRAWING. WORK FROM FIGURED DIMENSIONS ONLY.
- SURFACE AND FOUL WATER DRAINAGE ARE SHOWN INDICATIVELY ONLY TO DEMONSTRATE THE DRAINAGE STRATEGY AND ARE SUBJECT TO DEVELOP A LINE WITH DETAILED DESIGN REQUIREMENTS.
- ALL SURFACE WATER COMING FROM THE PROPOSED DEVELOPMENT IS TO BE DISPOSED OF THROUGH INFILTRATION USING SUDS.
- PROPOSED FOUL DRAINAGE FOR THE DEVELOPMENT TO DISCHARGE TO EXISTING PUBLIC SEWER LOCATED TO THE NORTH OF THE SITE ON OLD BATH ROAD.
- DRAINAGE PIPES AND LEVELS TO BE CONFIRMED FOLLOWING COMPLETION OF DETAILED DRAINAGE DESIGN.
- LOCATION OF GULLIES AND DRAINAGE CHANNELS TO BE CONFIRMED FOLLOWING COMPLETION OF DETAILED DRAINAGE DESIGN.
- SUDS VOLUMES CALCULATED ARE BASED UPON 1 IN 100 YEAR STORM EVENT ~40% CLIMATE CHANGE.
- INFILTRATION RATES USED ARE BASED ON PERCOLATION TEST RESULT PROVIDED BY GROUND AND ENVIRONMENTAL INVESTIGATION LIMITED.

KEY

- SITE BOUNDARY
- PROPOSED FOUL WATER SEWER
- PROPOSED SURFACE WATER SEWER
- PROPOSED PERMAVOID DIFFUSER UNIT
- PERMEABLE PAVING  
PROPOSED PERMEABLE PAVING AREA WITH 750mm DEEP CORNICE GRADED AGGREGATE STORAGE MATERIAL (SUB-BASE TO C9A C8/7 WITH 30% POROSITY) SURFACE WATER TO BE CONVEYED INTO SUB-BASE VIA SPACES BETWEEN PERMEABLE PAVING BLOCKS AND PERMAVOID DIFFUSER UNIT
- FOUL SEWER EASEMENT
- EXCEEDANCE FLOW ROUTE
- EXISTING FOUL WATER SEWER
- EXISTING LEVEL (mAOD)

|     |          |                                                        |     |
|-----|----------|--------------------------------------------------------|-----|
| REV | DATE     | DESCRIPTION                                            | CHK |
| 1   | 04.07.24 | Drainage strategy amended as per updated site layout.  | HG  |
| 2   | 23.08.20 | Drainage strategy amended as per WDC comments.         | HG  |
| 3   | 02.07.20 | Drainage strategy amended to suit revised site layout. | HG  |
| 4   | 08.06.20 | Initial Issue                                          | HG  |

PLANNING APPLICATION

**JUDWAA CONSULTING**  
A Vision to Better Solutions  
Suite 522, 5 Charter House, Lord Montgomery Way, Portsmouth, PO1 2SN  
Tel: 02392 298355  
Email: info@judwaconsulting.com  
Website: www.judwaconsulting.com

CLIENT: ARLINGTON RETIREMENT LIFESTYLES

PROJECT: LAND SOUTH OF OLD BATH ROAD, SONNING, WORKINGHAM

TITLE: SURFACE AND FOUL WATER DRAINAGE STRATEGY

|             |             |           |
|-------------|-------------|-----------|
| SCALE @ NO: | CHECKED:    | DATE:     |
| 1:250       | HG          | JUNE 2020 |
| PROJECT No: | DRAWING No: | REV:      |
| J014        | DS-101      | C         |

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                                                                           |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                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| File Permeable Paving_Site W...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| XP Solutions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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 |      |                  |       |     |      |               |         |     |    |
| <p>Summary of Results for 100 year Return Period (+40%)</p> <p>Half Drain Time : 1341 minutes.</p> <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>53.769</td><td>0.269</td><td>2.3</td><td>134.3</td><td>O K</td></tr><tr><td>30 min Summer</td><td>53.850</td><td>0.350</td><td>2.3</td><td>178.3</td><td>O K</td></tr><tr><td>60 min Summer</td><td>53.933</td><td>0.433</td><td>2.3</td><td>223.8</td><td>O K</td></tr><tr><td>120 min Summer</td><td>54.007</td><td>0.507</td><td>2.3</td><td>263.7</td><td>O K</td></tr><tr><td>180 min Summer</td><td>54.048</td><td>0.548</td><td>2.3</td><td>286.4</td><td>O K</td></tr><tr><td>240 min Summer</td><td>54.075</td><td>0.575</td><td>2.3</td><td>301.0</td><td>O K</td></tr><tr><td>360 min Summer</td><td>54.105</td><td>0.605</td><td>2.3</td><td>317.3</td><td>O K</td></tr><tr><td>480 min Summer</td><td>54.115</td><td>0.615</td><td>2.3</td><td>322.9</td><td>O K</td></tr><tr><td>600 min Summer</td><td>54.116</td><td>0.616</td><td>2.3</td><td>323.1</td><td>O K</td></tr><tr><td>720 min Summer</td><td>54.110</td><td>0.610</td><td>2.3</td><td>320.0</td><td>O K</td></tr><tr><td>960 min Summer</td><td>54.088</td><td>0.588</td><td>2.3</td><td>308.1</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>54.038</td><td>0.538</td><td>2.3</td><td>280.6</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>53.982</td><td>0.482</td><td>2.3</td><td>250.1</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>53.939</td><td>0.439</td><td>2.3</td><td>226.8</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>53.871</td><td>0.371</td><td>2.3</td><td>189.7</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>53.816</td><td>0.316</td><td>2.3</td><td>159.7</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>53.771</td><td>0.271</td><td>2.3</td><td>135.2</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>53.733</td><td>0.233</td><td>2.3</td><td>114.8</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>53.702</td><td>0.202</td><td>2.3</td><td>97.5</td><td>O K</td></tr><tr><td>15 min Winter</td><td>53.801</td><td>0.301</td><td>2.3</td><td>151.8</td><td>O K</td></tr></tbody></table> <table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>139.460</td><td>0.0</td><td>23</td></tr><tr><td>30 min Summer</td><td>91.614</td><td>0.0</td><td>38</td></tr><tr><td>60 min Summer</td><td>57.567</td><td>0.0</td><td>68</td></tr><tr><td>120 min Summer</td><td>34.461</td><td>0.0</td><td>126</td></tr><tr><td>180 min Summer</td><td>25.382</td><td>0.0</td><td>186</td></tr><tr><td>240 min Summer</td><td>20.364</td><td>0.0</td><td>246</td></tr><tr><td>360 min Summer</td><td>14.839</td><td>0.0</td><td>366</td></tr><tr><td>480 min Summer</td><td>11.754</td><td>0.0</td><td>484</td></tr><tr><td>600 min Summer</td><td>9.771</td><td>0.0</td><td>604</td></tr><tr><td>720 min Summer</td><td>8.383</td><td>0.0</td><td>722</td></tr><tr><td>960 min Summer</td><td>6.557</td><td>0.0</td><td>960</td></tr><tr><td>1440 min Summer</td><td>4.607</td><td>0.0</td><td>1168</td></tr><tr><td>2160 min Summer</td><td>3.242</td><td>0.0</td><td>1536</td></tr><tr><td>2880 min Summer</td><td>2.537</td><td>0.0</td><td>1932</td></tr><tr><td>4320 min Summer</td><td>1.813</td><td>0.0</td><td>2728</td></tr><tr><td>5760 min Summer</td><td>1.441</td><td>0.0</td><td>3520</td></tr><tr><td>7200 min Summer</td><td>1.218</td><td>0.0</td><td>4320</td></tr><tr><td>8640 min Summer</td><td>1.068</td><td>0.0</td><td>5016</td></tr><tr><td>10080 min Summer</td><td>0.960</td><td>0.0</td><td>5752</td></tr><tr><td>15 min Winter</td><td>139.460</td><td>0.0</td><td>23</td></tr></tbody></table> |               |                     |                                                                                    |                 |        |                                                                                     | Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Volume (m³) | Status | 15 min Summer | 53.769 | 0.269 | 2.3 | 134.3 | O K | 30 min Summer | 53.850 | 0.350 | 2.3 | 178.3 | O K | 60 min Summer | 53.933 | 0.433 | 2.3 | 223.8 | O K | 120 min Summer | 54.007 | 0.507 | 2.3 | 263.7 | O K | 180 min Summer | 54.048 | 0.548 | 2.3 | 286.4 | O K | 240 min Summer | 54.075 | 0.575 | 2.3 | 301.0 | O K | 360 min Summer | 54.105 | 0.605 | 2.3 | 317.3 | O K | 480 min Summer | 54.115 | 0.615 | 2.3 | 322.9 | O K | 600 min Summer | 54.116 | 0.616 | 2.3 | 323.1 | O K | 720 min Summer | 54.110 | 0.610 | 2.3 | 320.0 | O K | 960 min Summer | 54.088 | 0.588 | 2.3 | 308.1 | O K | 1440 min Summer | 54.038 | 0.538 | 2.3 | 280.6 | O K | 2160 min Summer | 53.982 | 0.482 | 2.3 | 250.1 | O K | 2880 min Summer | 53.939 | 0.439 | 2.3 | 226.8 | O K | 4320 min Summer | 53.871 | 0.371 | 2.3 | 189.7 | O K | 5760 min Summer | 53.816 | 0.316 | 2.3 | 159.7 | O K | 7200 min Summer | 53.771 | 0.271 | 2.3 | 135.2 | O K | 8640 min Summer | 53.733 | 0.233 | 2.3 | 114.8 | O K | 10080 min Summer | 53.702 | 0.202 | 2.3 | 97.5 | O K | 15 min Winter | 53.801 | 0.301 | 2.3 | 151.8 | O K | Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Time-Peak (mins) | 15 min Summer | 139.460 | 0.0 | 23 | 30 min Summer | 91.614 | 0.0 | 38 | 60 min Summer | 57.567 | 0.0 | 68 | 120 min Summer | 34.461 | 0.0 | 126 | 180 min Summer | 25.382 | 0.0 | 186 | 240 min Summer | 20.364 | 0.0 | 246 | 360 min Summer | 14.839 | 0.0 | 366 | 480 min Summer | 11.754 | 0.0 | 484 | 600 min Summer | 9.771 | 0.0 | 604 | 720 min Summer | 8.383 | 0.0 | 722 | 960 min Summer | 6.557 | 0.0 | 960 | 1440 min Summer | 4.607 | 0.0 | 1168 | 2160 min Summer | 3.242 | 0.0 | 1536 | 2880 min Summer | 2.537 | 0.0 | 1932 | 4320 min Summer | 1.813 | 0.0 | 2728 | 5760 min Summer | 1.441 | 0.0 | 3520 | 7200 min Summer | 1.218 | 0.0 | 4320 | 8640 min Summer | 1.068 | 0.0 | 5016 | 10080 min Summer | 0.960 | 0.0 | 5752 | 15 min Winter | 139.460 | 0.0 | 23 |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Max Level (m) | Max Depth (m)       | Max Infiltration (l/s)                                                             | Max Volume (m³) | Status |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 53.769        | 0.269               | 2.3                                                                                | 134.3           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 53.850        | 0.350               | 2.3                                                                                | 178.3           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                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 |      |                  |       |     |      |               |         |     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 53.933        | 0.433               | 2.3                                                                                | 223.8           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 54.007        | 0.507               | 2.3                                                                                | 263.7           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 54.048        | 0.548               | 2.3                                                                                | 286.4           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                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 |      |                  |       |     |      |               |         |     |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 54.075        | 0.575               | 2.3                                                                                | 301.0           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                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 |      |                  |       |     |      |               |         |     |    |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 54.105        | 0.605               | 2.3                                                                                | 317.3           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                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 |      |                  |       |     |      |               |         |     |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 54.115        | 0.615               | 2.3                                                                                | 322.9           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                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 |      |                  |       |     |      |               |         |     |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 54.116        | 0.616               | 2.3                                                                                | 323.1           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 54.110        | 0.610               | 2.3                                                                                | 320.0           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 54.088        | 0.588               | 2.3                                                                                | 308.1           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 54.038        | 0.538               | 2.3                                                                                | 280.6           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 53.982        | 0.482               | 2.3                                                                                | 250.1           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 53.939        | 0.439               | 2.3                                                                                | 226.8           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                           |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 53.816        | 0.316               | 2.3                                                                                | 159.7           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 53.771        | 0.271               | 2.3                                                                                | 135.2           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 53.733        | 0.233               | 2.3                                                                                | 114.8           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 53.702        | 0.202               | 2.3                                                                                | 97.5            | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 53.801        | 0.301               | 2.3                                                                                | 151.8           | O K    |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rain (mm/hr)  | Flooded Volume (m³) | Time-Peak (mins)                                                                   |                 |        |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 139.460       | 0.0                 | 23                                                                                 |                 |        |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                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 |      |                  |       |     |      |               |         |     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                           |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                           |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                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 |      |                  |       |     |      |               |         |     |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                           |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |    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| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                           |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                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| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                           |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                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| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                           |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                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| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                           |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                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 |      |                  |       |     |      |               |         |     |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                           |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                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 |      |                  |       |     |      |               |         |     |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                           |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                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 |      |                  |       |     |      |               |         |     |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                           |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                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 |      |                  |       |     |      |               |         |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                           |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                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 |      |                  |       |     |      |               |         |     |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                           |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2.537         | 0.0                 | 1932                                                                               |                 |        |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                           |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                           |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1.218         | 0.0                 | 4320                                                                               |                 |        |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1.068         | 0.0                 | 5016                                                                               |                 |        |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                                           |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 139.460       | 0.0                 | 23                                                                                 |                 |        |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |       |     |               |        |       |     |       |     |               |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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 |        |       |     |       |     |                 |        |       |     |       |     |                 |        |       |     |       |     |                  |        |       |     |      |     |               |        |       |     |       |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |

|                                                             |                     |                                                                                    |                              |                       |        |                                                                                     |  |
|-------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------|------------------------------|-----------------------|--------|-------------------------------------------------------------------------------------|--|
|                                                             |                     | Land South of Old Bath Road<br>Sonning, Wokingham<br>Permeable Paving Calculations |                              |                       |        | Page 2                                                                              |  |
| Date 22/08/2020                                             |                     | Designed by HG                                                                     |                              |                       |        |  |  |
| File Permeable Paving_Site W...                             |                     | Checked by HG                                                                      |                              |                       |        |                                                                                     |  |
| XP Solutions                                                |                     | Source Control 2020.1                                                              |                              |                       |        |                                                                                     |  |
| <u>Summary of Results for 100 year Return Period (+40%)</u> |                     |                                                                                    |                              |                       |        |                                                                                     |  |
| Storm<br>Event                                              | Max<br>Level<br>(m) | Max<br>Depth<br>(m)                                                                | Max<br>Infiltration<br>(l/s) | Max<br>Volume<br>(m³) | Status |                                                                                     |  |
| 30 min Winter                                               | 53.892              | 0.392                                                                              | 2.3                          | 201.3                 | O K    |                                                                                     |  |
| 60 min Winter                                               | 53.986              | 0.486                                                                              | 2.3                          | 252.6                 | O K    |                                                                                     |  |
| 120 min Winter                                              | 54.070              | 0.570                                                                              | 2.3                          | 298.3                 | O K    |                                                                                     |  |
| 180 min Winter                                              | 54.119              | 0.619                                                                              | 2.3                          | 324.7                 | O K    |                                                                                     |  |
| 240 min Winter                                              | 54.150              | 0.650                                                                              | 2.3                          | 341.9                 | O K    |                                                                                     |  |
| 360 min Winter                                              | 54.188              | 0.688                                                                              | 2.3                          | 362.2                 | O K    |                                                                                     |  |
| 480 min Winter                                              | 54.203              | 0.703                                                                              | 2.3                          | 370.5                 | O K    |                                                                                     |  |
| 600 min Winter                                              | 54.207              | 0.707                                                                              | 2.3                          | 372.7                 | O K    |                                                                                     |  |
| 720 min Winter                                              | 54.204              | 0.704                                                                              | 2.3                          | 371.2                 | O K    |                                                                                     |  |
| 960 min Winter                                              | 54.187              | 0.687                                                                              | 2.3                          | 362.0                 | O K    |                                                                                     |  |
| 1440 min Winter                                             | 54.132              | 0.632                                                                              | 2.3                          | 331.8                 | O K    |                                                                                     |  |
| 2160 min Winter                                             | 54.059              | 0.559                                                                              | 2.3                          | 292.3                 | O K    |                                                                                     |  |
| 2880 min Winter                                             | 54.000              | 0.500                                                                              | 2.3                          | 260.1                 | O K    |                                                                                     |  |
| 4320 min Winter                                             | 53.899              | 0.399                                                                              | 2.3                          | 204.8                 | O K    |                                                                                     |  |
| 5760 min Winter                                             | 53.814              | 0.314                                                                              | 2.3                          | 158.6                 | O K    |                                                                                     |  |
| 7200 min Winter                                             | 53.745              | 0.245                                                                              | 2.3                          | 120.9                 | O K    |                                                                                     |  |
| 8640 min Winter                                             | 53.687              | 0.187                                                                              | 2.3                          | 89.7                  | O K    |                                                                                     |  |
| 10080 min Winter                                            | 53.641              | 0.141                                                                              | 2.3                          | 64.2                  | O K    |                                                                                     |  |
| Storm<br>Event                                              | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³)                                                          | Time-Peak<br>(mins)          |                       |        |                                                                                     |  |
| 30 min Winter                                               | 91.614              | 0.0                                                                                | 37                           |                       |        |                                                                                     |  |
| 60 min Winter                                               | 57.567              | 0.0                                                                                | 66                           |                       |        |                                                                                     |  |
| 120 min Winter                                              | 34.461              | 0.0                                                                                | 126                          |                       |        |                                                                                     |  |
| 180 min Winter                                              | 25.382              | 0.0                                                                                | 184                          |                       |        |                                                                                     |  |
| 240 min Winter                                              | 20.364              | 0.0                                                                                | 242                          |                       |        |                                                                                     |  |
| 360 min Winter                                              | 14.839              | 0.0                                                                                | 360                          |                       |        |                                                                                     |  |
| 480 min Winter                                              | 11.754              | 0.0                                                                                | 476                          |                       |        |                                                                                     |  |
| 600 min Winter                                              | 9.771               | 0.0                                                                                | 590                          |                       |        |                                                                                     |  |
| 720 min Winter                                              | 8.383               | 0.0                                                                                | 706                          |                       |        |                                                                                     |  |
| 960 min Winter                                              | 6.557               | 0.0                                                                                | 928                          |                       |        |                                                                                     |  |
| 1440 min Winter                                             | 4.607               | 0.0                                                                                | 1346                         |                       |        |                                                                                     |  |
| 2160 min Winter                                             | 3.242               | 0.0                                                                                | 1652                         |                       |        |                                                                                     |  |
| 2880 min Winter                                             | 2.537               | 0.0                                                                                | 2108                         |                       |        |                                                                                     |  |
| 4320 min Winter                                             | 1.813               | 0.0                                                                                | 2984                         |                       |        |                                                                                     |  |
| 5760 min Winter                                             | 1.441               | 0.0                                                                                | 3800                         |                       |        |                                                                                     |  |
| 7200 min Winter                                             | 1.218               | 0.0                                                                                | 4544                         |                       |        |                                                                                     |  |
| 8640 min Winter                                             | 1.068               | 0.0                                                                                | 5272                         |                       |        |                                                                                     |  |
| 10080 min Winter                                            | 0.960               | 0.0                                                                                | 5952                         |                       |        |                                                                                     |  |
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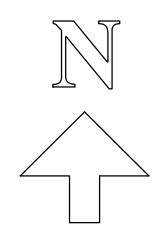
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                    | Page 3                                                                              |                |     |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |           |             |           |       |     |       |     |   |         |   |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|-----|-----------------------|-----|----------------------|------|---------------|---------------------------------|-----------|-------|---------------|-----|---------------|-----|-------------|-------|-------------|-------|-----------------------|----|----------------------|-------|------------------|-----|-------------|-----------|-------------|-----------|-------|-----|-------|-----|---|---------|---|---------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Land South of Old Bath Road<br>Sonning, Wokingham<br>Permeable Paving Calculations |  |                |     |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |           |             |           |       |     |       |     |   |         |   |         |
| Date 22/08/2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Designed by HG                                                                     |                                                                                     |                |     |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |           |             |           |       |     |       |     |   |         |   |         |
| File Permeable Paving_Site W...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Checked by HG                                                                      |                                                                                     |                |     |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |           |             |           |       |     |       |     |   |         |   |         |
| XP Solutions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                    | Source Control 2020.1                                                               |                |     |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |           |             |           |       |     |       |     |   |         |   |         |
| <p style="text-align: center;"><u>Rainfall Details</u></p> <table> <tr> <td>Rainfall Model</td> <td>FEH</td> </tr> <tr> <td>Return Period (years)</td> <td>100</td> </tr> <tr> <td>FEH Rainfall Version</td> <td>2013</td> </tr> <tr> <td>Site Location</td> <td>GB 476407 174894 SU 76407 74894</td> </tr> <tr> <td>Data Type</td> <td>Point</td> </tr> <tr> <td>Summer Storms</td> <td>Yes</td> </tr> <tr> <td>Winter Storms</td> <td>Yes</td> </tr> <tr> <td>Cv (Summer)</td> <td>0.750</td> </tr> <tr> <td>Cv (Winter)</td> <td>0.840</td> </tr> <tr> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>Climate Change %</td> <td>+40</td> </tr> </table> <p style="text-align: center;"><u>Time Area Diagram</u></p> <p style="text-align: center;">Total Area (ha) 0.557</p> <table> <thead> <tr> <th>Time (mins)</th> <th>Area (ha)</th> <th>Time (mins)</th> <th>Area (ha)</th> </tr> <tr> <th>From:</th> <th>To:</th> <th>From:</th> <th>To:</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>4 0.178</td> <td>4</td> <td>8 0.379</td> </tr> </tbody> </table> |                                                                                    |                                                                                     | Rainfall Model | FEH | Return Period (years) | 100 | FEH Rainfall Version | 2013 | Site Location | GB 476407 174894 SU 76407 74894 | 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 (mins) | Area (ha) | Time (mins) | Area (ha) | From: | To: | From: | To: | 0 | 4 0.178 | 4 | 8 0.379 |
| Rainfall Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FEH                                                                                |                                                                                     |                |     |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |           |             |           |       |     |       |     |   |         |   |         |
| Return Period (years)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 100                                                                                |                                                                                     |                |     |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |           |             |           |       |     |       |     |   |         |   |         |
| FEH Rainfall Version                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2013                                                                               |                                                                                     |                |     |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |           |             |           |       |     |       |     |   |         |   |         |
| Site Location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | GB 476407 174894 SU 76407 74894                                                    |                                                                                     |                |     |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |           |             |           |       |     |       |     |   |         |   |         |
| 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 (mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Area (ha)                                                                          | Time (mins)                                                                         | Area (ha)      |     |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |           |             |           |       |     |       |     |   |         |   |         |
| From:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | To:                                                                                | From:                                                                               | To:            |     |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |           |             |           |       |     |       |     |   |         |   |         |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4 0.178                                                                            | 4                                                                                   | 8 0.379        |     |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |           |             |           |       |     |       |     |   |         |   |         |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    |                                                                                     |                                      |         |           |      |                              |      |            |      |                       |       |             |        |               |     |                         |   |          |      |                      |   |                  |        |                    |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------|-----------|------|------------------------------|------|------------|------|-----------------------|-------|-------------|--------|---------------|-----|-------------------------|---|----------|------|----------------------|---|------------------|--------|--------------------|---|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    | Page 4                                                                              |                                      |         |           |      |                              |      |            |      |                       |       |             |        |               |     |                         |   |          |      |                      |   |                  |        |                    |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Land South of Old Bath Road<br>Sonning, Wokingham<br>Permeable Paving Calculations |  |                                      |         |           |      |                              |      |            |      |                       |       |             |        |               |     |                         |   |          |      |                      |   |                  |        |                    |   |
| Date 22/08/2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Designed by HG                                                                     |                                                                                     |                                      |         |           |      |                              |      |            |      |                       |       |             |        |               |     |                         |   |          |      |                      |   |                  |        |                    |   |
| File Permeable Paving_Site W...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Checked by HG                                                                      |                                                                                     |                                      |         |           |      |                              |      |            |      |                       |       |             |        |               |     |                         |   |          |      |                      |   |                  |        |                    |   |
| XP Solutions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Source Control 2020.1                                                              |                                                                                     |                                      |         |           |      |                              |      |            |      |                       |       |             |        |               |     |                         |   |          |      |                      |   |                  |        |                    |   |
| <div>Model Details</div> <div>Storage is Online Cover Level (m) 54.700</div> <div>Porous Car Park Structure</div> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00925</td><td>Width (m)</td><td>40.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>45.4</td></tr><tr><td>Max Percolation (l/s)</td><td>504.4</td><td>Slope (1:X)</td><td>1000.0</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>53.500</td><td>Membrane Depth (m)</td><td>0</td></tr></table> |                                                                                    |                                                                                     | Infiltration Coefficient Base (m/hr) | 0.00925 | Width (m) | 40.0 | Membrane Percolation (mm/hr) | 1000 | Length (m) | 45.4 | Max Percolation (l/s) | 504.4 | Slope (1:X) | 1000.0 | Safety Factor | 2.0 | Depression Storage (mm) | 5 | Porosity | 0.30 | Evaporation (mm/day) | 3 | Invert Level (m) | 53.500 | Membrane Depth (m) | 0 |
| Infiltration Coefficient Base (m/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.00925                                                                            | Width (m)                                                                           | 40.0                                 |         |           |      |                              |      |            |      |                       |       |             |        |               |     |                         |   |          |      |                      |   |                  |        |                    |   |
| Membrane Percolation (mm/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1000                                                                               | Length (m)                                                                          | 45.4                                 |         |           |      |                              |      |            |      |                       |       |             |        |               |     |                         |   |          |      |                      |   |                  |        |                    |   |
| Max Percolation (l/s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 504.4                                                                              | Slope (1:X)                                                                         | 1000.0                               |         |           |      |                              |      |            |      |                       |       |             |        |               |     |                         |   |          |      |                      |   |                  |        |                    |   |
| Safety Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2.0                                                                                | Depression Storage (mm)                                                             | 5                                    |         |           |      |                              |      |            |      |                       |       |             |        |               |     |                         |   |          |      |                      |   |                  |        |                    |   |
| Porosity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.30                                                                               | Evaporation (mm/day)                                                                | 3                                    |         |           |      |                              |      |            |      |                       |       |             |        |               |     |                         |   |          |      |                      |   |                  |        |                    |   |
| Invert Level (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 53.500                                                                             | Membrane Depth (m)                                                                  | 0                                    |         |           |      |                              |      |            |      |                       |       |             |        |               |     |                         |   |          |      |                      |   |                  |        |                    |   |
| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |                                                                                     |                                      |         |           |      |                              |      |            |      |                       |       |             |        |               |     |                         |   |          |      |                      |   |                  |        |                    |   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                              |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                              | Page 1                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Land South of Old Bath Road<br>Sonning, Wokingham<br>Greenfield Calculations |  |
| Date 22/08/2020<br>File Permeable Paving_Site W...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Designed by HG<br>Checked by HG                                              |                                                                                     |
| XP Solutions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Source Control 2020.1                                                        |                                                                                     |
| <div>ICP SUDS Mean Annual Flood</div> <div>Input</div> <div><div>Return Period (years)</div><div>100</div><div>Soil</div><div>0.300</div></div> <div><div>Area (ha)</div><div>1.180</div><div>Urban</div><div>0.000</div></div> <div><div>SAAR (mm)</div><div>700</div><div>Region Number</div><div>Region 6</div></div> <div>Results 1/s</div> <div><div>QBAR Rural</div><div>2.2</div></div> <div><div>QBAR Urban</div><div>2.2</div></div> <div><div>Q100 years</div><div>6.9</div></div> <div><div>Q1 year</div><div>1.8</div></div> <div><div>Q30 years</div><div>4.9</div></div> <div><div>Q100 years</div><div>6.9</div></div> |                                                                              |                                                                                     |
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## **APPENDIX C**

### **Site Topographical Survey**



LEGEND

FEATURE STYLES                      FEATURE ABBREVIATIONS

|                            |                                                                                     |     |                    |
|----------------------------|-------------------------------------------------------------------------------------|-----|--------------------|
| SURVEY CONTROL             |  | AV  | Air Valve          |
| FENCE                      |  | BS  | Bus Stop           |
| HEDGE                      |  | BT  | British Telecom    |
| FWS                        |  | BW  | Brick Wall         |
| SWS                        |  | CB  | Conc Bollard       |
| WATER                      |  | CL  | Cover Level        |
| POWER LINE<br>(OVERHEAD)   |  | CTO | Cable TV outlet    |
| TELECOM LINE<br>(OVERHEAD) |  | EB  | Electric Box       |
| ELECTRIC MAIN              |  | EC  | Electric Cable     |
| GAS MAIN                   |  | EP  | Electricity Pole   |
|                            |                                                                                     | EH  | Fire Hydrant       |
|                            |                                                                                     | FL  | Floor level        |
|                            |                                                                                     | G   | Gully              |
|                            |                                                                                     | GM  | Gas Meter          |
|                            |                                                                                     | GV  | Gas Valve          |
|                            |                                                                                     | IL  | Invert Level       |
|                            |                                                                                     | IS  | Inspection Chamber |
|                            |                                                                                     | KLS | Keep Left Sign     |
|                            |                                                                                     | KO  | Kerb Offset        |
|                            |                                                                                     | LB  | Letter Box         |
|                            |                                                                                     | LP  | Lamp Post          |
|                            |                                                                                     | M   | Marker             |
|                            |                                                                                     | MP  | Mail Post          |
|                            |                                                                                     | MS  |                    |

## FENCE TYPES

|     |                 |     |                 |
|-----|-----------------|-----|-----------------|
| BWR | Barbed Wire     | SC  | Staple Sprocket |
| CBW | Close Board     | SV  | Slipcase Valve  |
| CI  | Corrupted Iron  | TP  | Telegraph Pole  |
| CL  | Chain Link      | TCB | Telephone Box   |
| CPL | Conc Panel      | TJB | Tel.Junc.Box    |
| CP  | Chestnut Paling | TL  | Traffic Light   |
| CW  | Chicken Wire    | V   | Valve           |
| IW  | Interwoven      | VP  | Vent Pipe       |
| IR  | Iron Railing    | WL  | Water Level     |
| OB  | Openboard       | WM  | Water Meter     |
| PR  | Post and rail   | WO  | Water Outlet    |
| PW  | Post and Wire   | WV  | Water Valve     |

DATUM  
GRID - ORDNANCE SURVEY NATIONAL GRID (OSTN02)  
LEVELS - ORDNANCE SURVEY (OSGM02)

[illegible]

## NOTES

Surveyed boundaries are not necessarily the site legal boundaries. Client should refer to the relevant Land Registry document for confirmation of title.

SURVEYED BY  
**groundsveys ltd**  
land & engineering surveyors

units 9&10  
woodlands farm  
spring lane  
cookham dean  
berkshire  
SL6 9PN

t: 01628 485200  
f: 01628 485300  
e:office@groundsveys.com  
www.groundsveys.com

CLIFN

CUBE SECURITIES

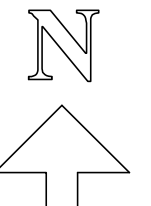
SITE

THE LAWNS, THE RANGE  
AND RED LODGE  
OLD BATH ROAD  
SONNING  
BERKSHIRE  
RG4 6TQ

TITLE

SITE SURVEY

|             |            |         |         |
|-------------|------------|---------|---------|
| SCALE       | 1/200 (AO) | DATE    | NOV 201 |
| DRAWING No. | 01         | JOB No. | 727     |



| LEGEND                  |                       |
|-------------------------|-----------------------|
| FEATURE STYLES          | FEATURE ABBREVIATIONS |
| SURVEY CONTROL          | AV Air Valve          |
| FENCE                   | BS Bus Stop           |
| HEDGE                   | BT British Telecom    |
| FWS                     | CB Conc Bollard       |
| SWS                     | CI Conc Level         |
| WATER                   | CTO cable TV outlet   |
| POWER LINE (OVERHEAD)   | EC Electric Cover     |
| TELECOM LINE (OVERHEAD) | EP Electricity Pole   |
| ELECTRIC MAIN           | FH Fire Hydrant       |
| GAS MAIN                | FL Floor Level        |
| EMBANKMENT              | GM Gas Meter          |
|                         | GV Gas Valve          |
|                         | I Invert Level        |
|                         | IC Inspection Chamber |
|                         | K/LS Keep Left Sign   |
|                         | KD Kerb Offset        |
|                         | LB Letter Box         |
|                         | LP Lamp Post          |
|                         | M/R Marker            |
|                         | MP Metal Post         |
|                         | MH Manhole            |
|                         | MR Metal Bollard      |
|                         | PI Petrol Interceptor |
|                         | R/R Road Sign         |
|                         | RNB Road Name Board   |
|                         | SA Scaffolding        |
|                         | SC Slopcock           |
|                         | SV Suck Valve         |
|                         | TP Telegraph Pole     |
|                         | TCTB Telephone Box    |
|                         | TJL TelJunc Box       |
|                         | TL Traffic Light      |
|                         | VP Vent Pipe          |
|                         | W Interworking        |
|                         | WM Water Meter        |
|                         | WD Water Duct         |
|                         | WW Water Valve        |

DATUM - ORDNANCE SURVEY NATIONAL GRID (OSNM02)  
LEVELS - ORDNANCE SURVEY (OSDM02)

| SURVEY CONTROL |                              |
|----------------|------------------------------|
| 1              | 476260.471 174871.583 54.788 |
| 2              | 476260.280 174866.545 54.788 |
| 3              | 476261.400 174873.233 54.811 |
| 4              | 476262.261 174879.060 54.806 |
| 5              | 476263.122 174880.517 54.806 |
| 6              | 476263.983 174881.973 54.806 |
| 7              | 476264.844 174883.429 54.788 |
| 8              | 476265.705 174884.885 54.788 |
| 9              | 476266.566 174886.341 54.806 |
| 10             | 476267.427 174887.797 54.788 |
| 11             | 476268.288 174889.253 54.788 |
| 12             | 476269.149 174890.709 54.788 |
| 13             | 476270.010 174892.165 54.788 |
| 14             | 476270.871 174893.621 54.788 |
| 15             | 476271.732 174895.077 54.788 |
| 16             | 476272.593 174896.533 54.788 |
| 17             | 476273.454 174897.989 54.788 |
| 18             | 476274.315 174900.445 54.788 |
| 19             | 476275.176 174902.901 54.788 |
| 20             | 476276.037 174905.357 54.788 |
| 21             | 476276.898 174907.813 54.788 |
| 22             | 476277.759 174910.269 54.788 |
| 23             | 476278.620 174912.725 54.788 |
| 24             | 476279.481 174915.181 54.788 |
| 25             | 476280.342 174917.637 54.788 |
| 26             | 476281.203 174920.093 54.788 |
| 27             | 476282.064 174922.549 54.788 |
| 28             | 476282.925 174925.005 54.788 |
| 29             | 476283.786 174927.461 54.788 |
| 30             | 476284.647 174929.917 54.788 |
| 31             | 476285.508 174932.373 54.788 |
| 32             | 476286.369 174934.829 54.788 |
| 33             | 476287.230 174937.285 54.788 |
| 34             | 476288.091 174939.741 54.788 |
| 35             | 476288.952 174942.197 54.788 |
| 36             | 476289.813 174944.653 54.788 |
| 37             | 476290.674 174947.109 54.788 |
| 38             | 476291.535 174949.565 54.788 |
| 39             | 476292.396 174952.021 54.788 |
| 40             | 476293.257 174954.477 54.788 |
| 41             | 476294.118 174956.933 54.788 |
| 42             | 476294.979 174959.389 54.788 |

NOTES  
Surveyed boundaries are not necessarily the site legal boundaries.  
Client should refer to the relevant Land Registry document for confirmation of title.  
Drainage and service covers that were buried, obscured or not visible at the time of the survey cannot be shown. Sewer connections between manholes are assumed to be straight and only pipes visible from the cover are shown.  
Tree canopy measured values are written as maximum spread.  
Tree species and condition to be confirmed by an arboriculturist.

SURVEYED BY  
**grounds surveys Ltd**  
land & engineering surveys  
units 9&10  
woodlands farm  
spring lane  
cookham dean  
berkshire  
SL6 9PN  
t: 01628 485200  
f: 01628 485300  
e: office@grounds-surveys.com  
www.groundsurveys.com

CLIENT  
**CUBE SECURITIES**

SITE  
**THE LAWN, THE RANGE  
AND RED LODGE  
OLD BATH ROAD  
SONNING  
BERKSHIRE  
RG4 6TQ**

TITLE  
**SITE SURVEY**  
AS EXISTING  
SCALE 1/200 (AO) DATE NOV 2019  
DRAWING No. 02 JOB No. 7276

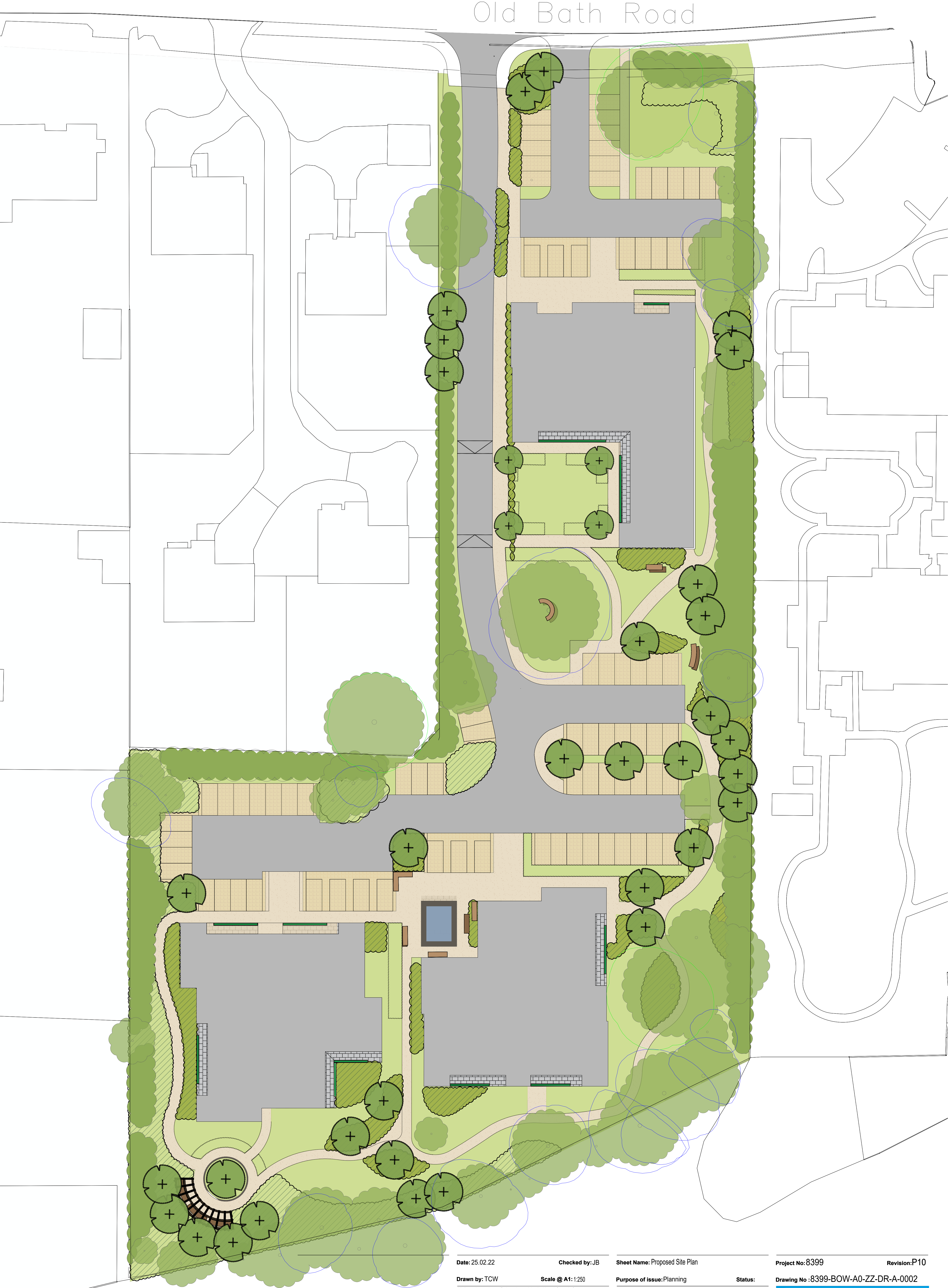
| TREE SCHEDULE |         |        |                  |
|---------------|---------|--------|------------------|
| TREE          | GIRTH   | HEIGHT | SPECIES          |
| 1             | 0.6     | 6.0    | 1.5 CYPRESS      |
| 2             | 0.6/0.8 | 15.0   | 5.5 ASH          |
| 3             | 1.7     | 15.0   | 5.5 ACACIA       |
| 4             | 0.8     | 6.0    | 3.0 ACACIA       |
| 5             | 0.5     | 12.0   | 4.0 CYPRESS      |
| 6             | 2.0     | 17.0   | 6.0 DAK          |
| 7             | 1.6     | 18.0   | 6.0 DAK          |
| 8             | 1.2     | 14.0   | 6.0 WALNUT       |
| 9             | 1.4     | 14.0   | 5.0 DAK          |
| 10            | 2.4     | 18.0   | 6.0 DAK          |
| 11            | 1.4     | 14.0   | 5.0 DAK          |
| 12            | 2.2     | 15.0   | 6.0 DAK          |
| 13            | 0.8     | 13.0   | 4.0 DAK          |
| 14            | 1.6     | 13.0   | 6.0 BEECH        |
| 15            | 1.5     | 10.0   | 5.0 DAK          |
| 16            | 1.5     | 10.0   | 5.0 DAK          |
| 17            | 1.5     | 10.0   | 5.0 DAK          |
| 18            | 0.5     | 5.0    | 2.5 APPLE        |
| 19            | 0.5     | 5.0    | 2.5 APPLE        |
| 20            | 0.5     | 5.0    | 2.5 APPLE        |
| 21            | MB      | 12.0   | 5.0 CYPRESS      |
| 22            | MB      | 12.0   | 5.0 CYPRESS      |
| 23            | 0.8     | 9.0    | 2.0 CYPRESS      |
| 24            | 1.3/1.9 | 20.0   | 6.0 EUCALYPTUS   |
| 25            | 0.8     | 4.0    | 2.5 APPLE        |
| 26            | 0.5     | 6.0    | 3.0 PRUNUS       |
| 27            | 4.0/4.4 | 5.0    | 2.0 MAGNOLIA     |
| 28            | 0.6     | 6.0    | 1.5 PEAR         |
| 29            | 0.7     | 9.0    | 3.5 PEAR         |
| 30            | 1.7     | 15.0   | 5.0 DAK          |
| 31            | 1.4     | 13.0   | 6.0 ASH          |
| 32            | 0.4/0.6 | 13.0   | 5.0 ASH          |
| 33            | 1.6     | 15.0   | 7.0 WATTLE       |
| 34            | 0.6     | 12.0   | 4.0 ASH          |
| 35            | 0.8     | 11.0   | 4.0 ASH          |
| 36            | 1.4     | 16.0   | 4.0 CYPRESS      |
| 37            | 1.4     | 16.0   | 4.0 CYPRESS      |
| 38            | 1.4     | 16.0   | 4.0 CYPRESS      |
| 39            | 1.4     | 16.0   | 4.0 CYPRESS      |
| 40            | 0.9     | 9.0    | 3.0 CYPRESS      |
| 41            | 0.5     | 13.0   | 4.0 CYPRESS      |
| 42            | 0.7     | 10.0   | 2.5 CYPRESS      |
| 43            | 0.8     | 6.0    | 1.5 SILVER BIRCH |
| 44            | 0.4     | 7.0    | 1.5 SILVER BIRCH |
| 45            | 0.4     | 6.0    | 1.5 SILVER BIRCH |
| 46            | 0.4     | 6.0    | 1.5 SILVER BIRCH |
| 47            | 0.6     | 15.0   | 5.0 ASH          |
| 48            | 0.6     | 13.0   | 4.0 ASH          |
| 49            | 0.7     | 16.0   | 5.0 CELAN        |
| 50            | 1.5     | 16.0   | 7.0 WATTLE       |

| TREE SCHEDULE |         |        |                  |
|---------------|---------|--------|------------------|
| TREE          | GIRTH   | HEIGHT | SPECIES          |
| 51            | 0.6     | 15.0   | 5.0 BEECH        |
| 52            | 4.0/5.0 | 15.0   | 5.0 ASH          |
| 53            | 3.0/4.4 | 13.0   | 2.0 CYPRESS      |
| 54            | 1.0     | 14.0   | 6.0 PRUNUS       |
| 55            | 1.4     | 18.0   | 5.0 CELAN        |
| 56            | 3.5     | 25.0   | 10.0 CELAN       |
| 57            | 0.9     | 6.0    | 2.0 YEW          |
| 58            | 0.5     | 7.0    | 2.5 PRUNUS       |
| 59            | 2.0/4.4 | 6.0    | 3.0 ACACIA       |
| 60            | 1.2     | 6.0    | 1.5 CYPRESS      |
| 61            | 1.4     | 15.0   | 5.0 CYPRESS      |
| 62            | 0.6     | 12.0   | 2.0 CYPRESS      |
| 63            | 0.7     | 15.0   | 3.0 CYPRESS      |
| 64            | 1.5     | 17.0   | 6.0 MAPLE        |
| 65            | 0.7     | 6.0    | 4.0 LAURUS       |
| 66            | 1.2     | 15.0   | 4.0 CYPRESS      |
| 67            | 1.2     | 15.0   | 4.0 CYPRESS      |
| 68            | 0.5     | 6.0    | 2.0 PRUNUS       |
| 69            | 1.2     | 15.0   | 4.0 CYPRESS      |
| 70            | 2.0/4.4 | 6.0    | 1.5 CYPRESS      |
| 71            | 0.7     | 11.0   | 2.0 CYPRESS      |
| 72            | 0.6     | 11.0   | 2.0 CYPRESS      |
| 73            | 1.8     | 15.0   | 9.5 DAK          |
| 74            | 2.0/4.4 | 15.0   | 5.0 DAK          |
| 75            | 0.8     | 15.0   | 4.0 PRUNUS       |
| 76            | 1.2     | 15.0   | 4.0 SILVER BIRCH |
| 77            | 0.6     | 4.0    | 3.0 ASH          |
| 78            | MB      | 10.0   | 4.0 PRUNUS       |
| 79            | 0.8     | 9.0    | 4.0 PRUNUS       |
| 80            | 0.8     | 9.0    | 4.0 PRUNUS       |
| 81            | 1.7     | 15.0   | 10.0 DAK         |
| 82            | 0.4     | 6.0    | 3.0 PRUNUS       |
| 83            | 0.4     | 6.0    | 3.0 PRUNUS       |
| 84            | 3.0/7.7 | 6.0    | 5.0 LAUREL       |
| 85            | 1.6     | 15.0   | 7.0 BEECH        |
| 86            | 5.9     | 15.0   | 3.0 SILVER BIRCH |
| 87            | 2.6     | 15.0   | 7.0 DAK          |
| 88            | 0.8     | 4.0    | 3.0 BEECH        |
| 89            | 0.4     | 12.0   | 1.5 HAWTHORN     |
| 90            | 1.5     | 15.0   | 5.0 BEECH        |
| 91            | 1.4     | 15.0   | 5.0 PRUNUS       |
| 92            | MB      | 9.0    | 2.0 CYPRESS      |
| 93            | 0.7     | 15.0   | 4.0 ASH          |
| 94            | 2.5     | 19.0   | 11.0 CELAN       |
| 95            | 1.3     | 14.0   | 2.0 CYPRESS      |
| 96            | 0.6     | 15.0   | 5.0 CELAN        |
| 97            | MB      | 6.0    | 2.0 CYPRESS      |
| 98            | 0.6     | 15.0   | 5.0 DAK          |
| 99            | 1.4     | 15.0   | 6.0 CELAN        |
| 100           | 0.6     | 6.0    | 3.0 ASH          |

| TREE SCHEDULE |       |        |        |            |
|---------------|-------|--------|--------|------------|
| TREE          | GIRTH | HEIGHT | SPREAD | SPECIES    |
| 101           | 1.3   | 13.0   | 6.0    | ASH        |
| 102           | 0.4   | 9.0    | 3.0    | ASH        |
| 103           | 3x0.4 | 17.0   | 4.0    | EUCALYPTUS |
| 104           | 2.6   | 15.0   | 5.0    | CEDAR      |
| 105           | 0.6   | 8.0    | 2.0    | CYPRESS    |

## **APPENDIX D**

### **Proposed Site Layout**



Date: 25.02.22

Checked by: JB

Sheet Name: Proposed Site Plan

Project No: 8399

Revision: P10

Drawn by: TCW

Scale @ A1: 1:250

Purpose of issue: Planning

Status:

Drawing No : 8399-BOW-A0-ZZ-DR-A-0002

All dimensions to be verified on site, and the Architect informed of any discrepancy. All drawings and specifications should be read in conjunction with the Health and Safety Plan; all conflicts should be reported to the appointed Principal Designer.  
Do not scale from this drawing  
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Arlington  
Old Bath Road  
Sonning, RG4 6GQ



| Revision | Date | By | Chk |
|----------|------|----|-----|
|          |      |    |     |