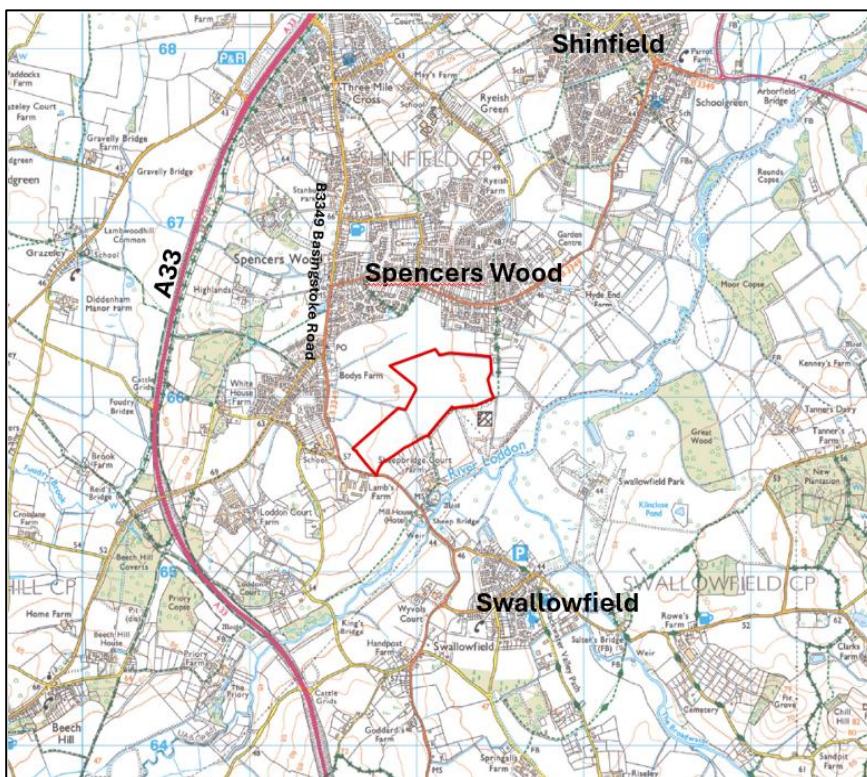


# Drainage Strategy

Spencer Wood Solar Farm,  
Land North Of Sheepbridge Court Farm,  
Basingstoke Road, Swallowfield, RG7 1PT

Planning permission: 232653  
Planning Condition: 6



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Figure 2: Site Landscape Plan

Figure 3: Swale Cross-section

Figure 4: Track Cross-section

## APPENDICES

- Appendix 1: Ashfield Solutions Group Flood Risk & Drainage Assessment ref: 155622
- Appendix 2: Site Landscape Plan
- Appendix 3: Swale Cross-section
- Appendix 4: Track Cross-section
- Appendix 5: Wokingham Borough Council Drainage Consultation Reponse to Planning Application

## DOCUMENT INFORMATION & CONTROL

### INFORMATION

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<b>GTPUK/Our Project Reference</b>	2021-0085_Spencers Wood Solar Farm
<b>Local Planning Authority:</b>	Wokingham Council
<b>Local Planning Authority Reference:</b>	232653
<b>Planning Condition:</b>	6

### CONTROL

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Date	Version	Author	Reviewer	Approver
20/09/2025	1	JJ	JJ	JJ

### Glossary

CEMP	Construction Environmental Management Plan
FRDA	Flood Risk and Drainage Assessment by Ashfield Solutions Group

## 1. INTRODUCTION

1.1 This Drainage Strategy sets out the drainage measures to be set in place for the development of a solar farm at Land North Of Sheepbridge Court Farm, Basingstoke Road, Swallowfield, RG7 1PT. It has been produced as per the requirements of Condition 6 attached to planning permission 232653 and Ashfield Solutions Group Flood Risk & Drainage Assessment ref: 155622-F01 (FRDA) dated 08/03/2023 submitted with the planning applications (Appendix 1).

1.2 Wokingham Borough Council drainage department was satisfied with the details and calculations within the FRDA (Appendix 5) and it is understood that policy have not changed since that time. The condition of the site has not changed since that time. Section 4.5 of the Flood Risk & Drainage Assessment (FRDA) concluded that no drainage scheme was required and recommended the provision of Swales with a combined length of 443 metres as betterment along the eastern and southern boundaries of the site as set out in Figure 1 below:

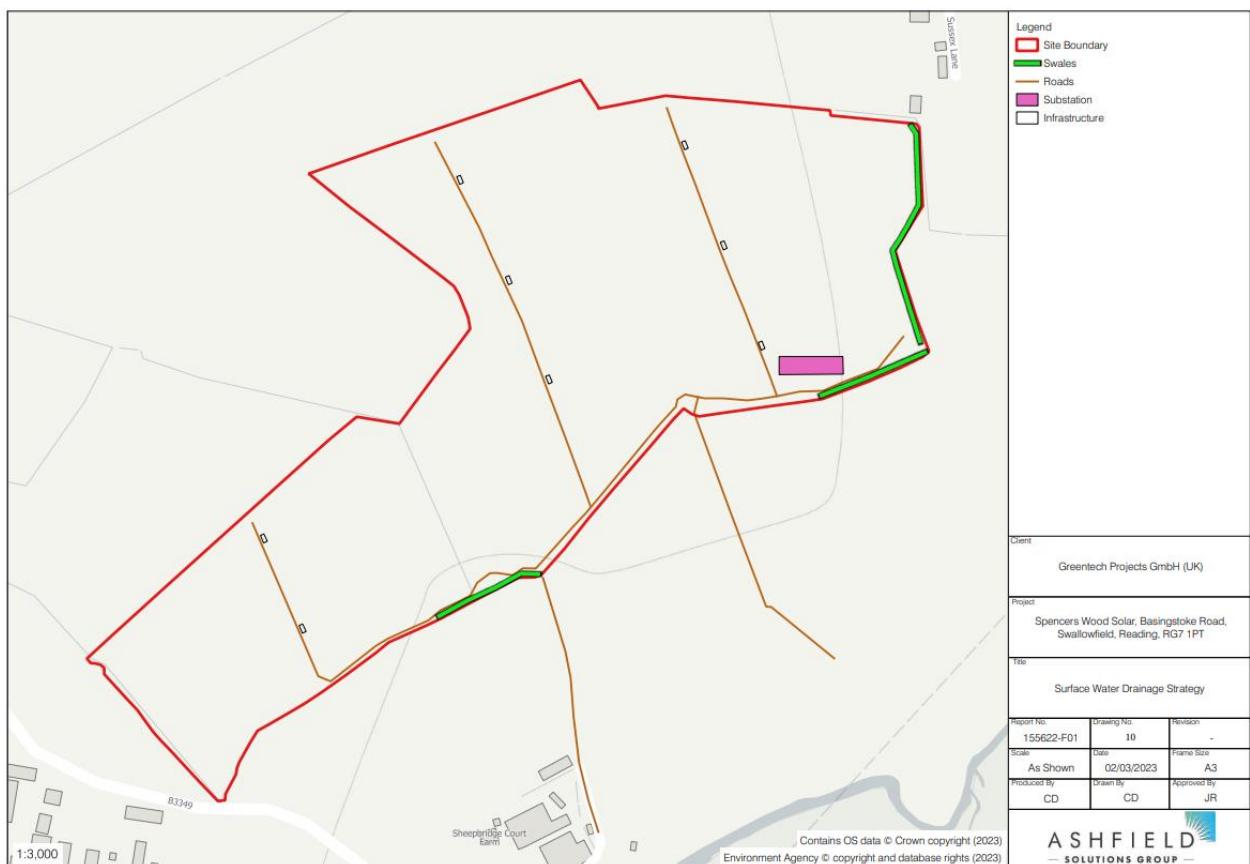


Figure 1: Plan 155622-F01 showing the location of proposed swales in green.

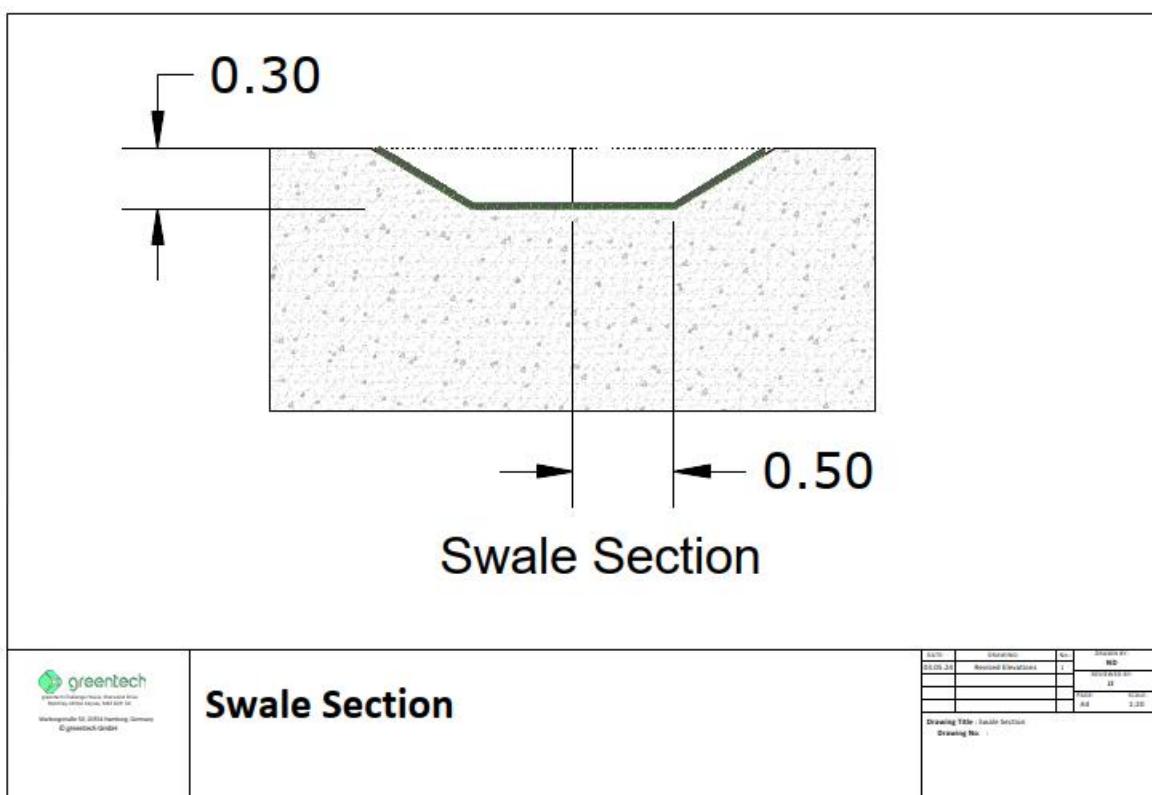
1.3 Section 4.5 of the FRDA concluded that with a depth of 0.3 metres and base width of 0.5 metres the total storage volume of the swales would be approximately  $66.5\text{m}^3$  which was calculated as having a greater storage volume than the Quick Storage Estimate volume of additional runoff calculated at  $45\text{m}^3$  by the increase in impermeable area on the site. The FRDA also recommended that the proposed access road should be permeable in nature and continue to allow infiltration.

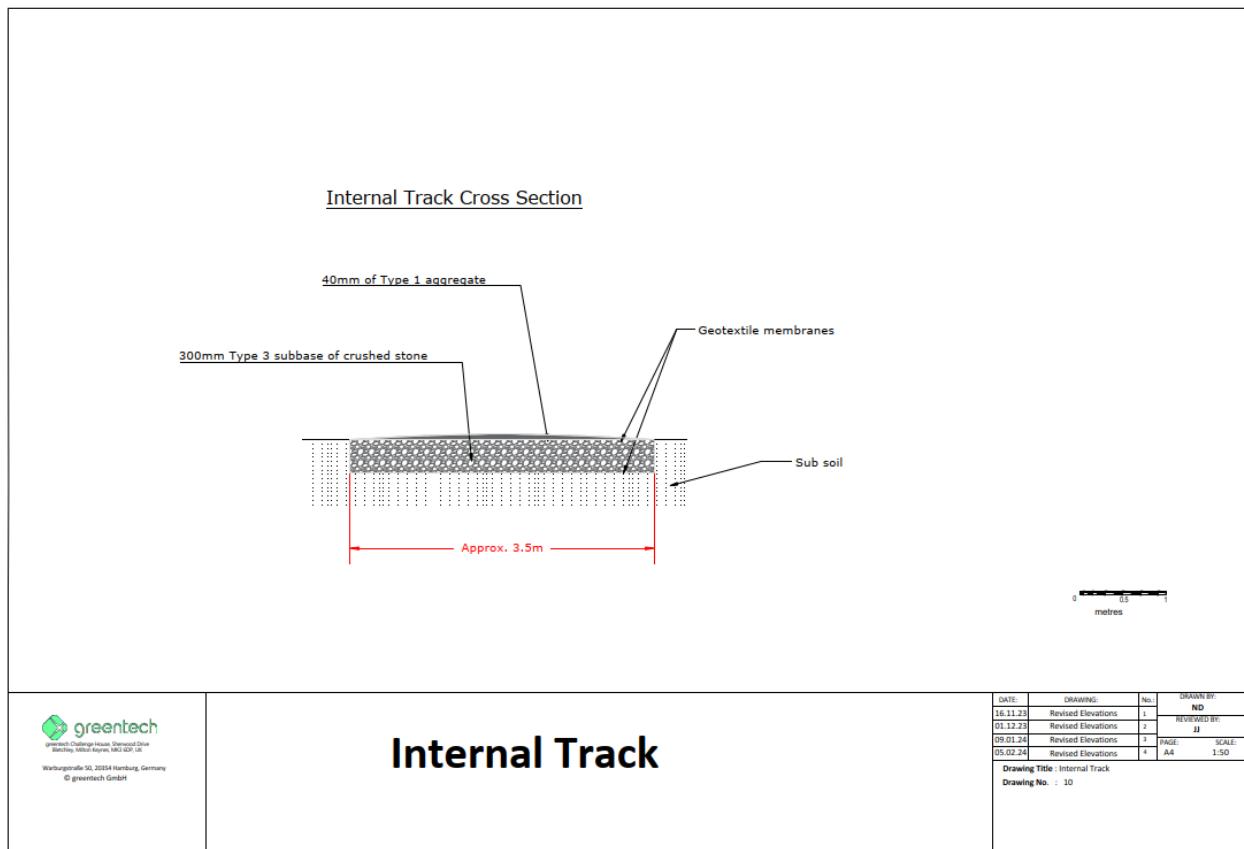
## 2. DRAINAGE STRATEGY

2.1 As set out in Section 4.4 of the FRDA run-off from the panels and the substations will discharge directly onto the ground adjacent to and beneath the structures where it will soak into the ground at the same rate that it presently does in its existing greenfield state. Similarly, any rainwater falling onto the permeable stone areas will soak into the ground beneath at the same rate that it presently does. Thus, the existing hydrological regime will be maintained without resulting in any increased volume or rate of run-off.

2.2 This drainage strategy sets out to implement the recommendations of the FRDA and to provide additional swale length parallel to the south boundary as a precautionary measure as set out in The site landscape plan attached to Appendix 2 and set out in Figure 2 below:

2.3 The swales to be installed will be 0.5 metres wider than the FRDA recommendations, as set out in the plans attached to Appendix 3 and set out in Figure 3 below:





2.5 All other hardstandings within the site will be girded by infiltration trenches 0.5 metres wide and 0.5 metres deep as set out in Figure 5 below. The infiltration trenches will be closed systems and will not drain off-site.

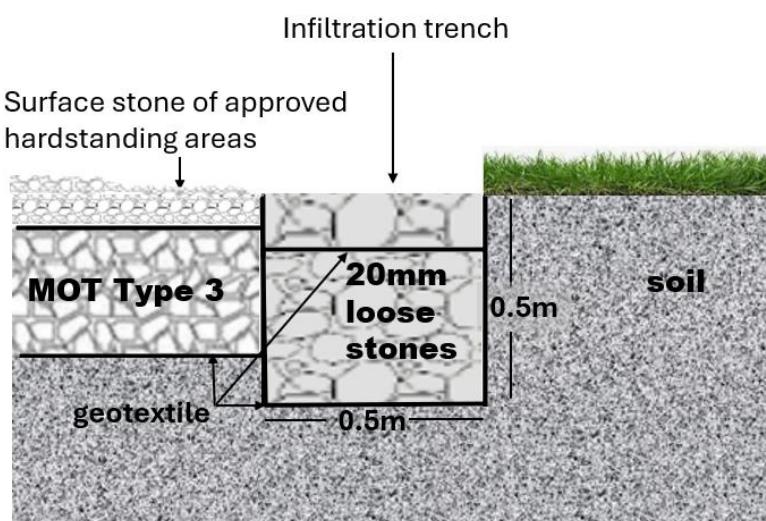


Figure 5: Infiltration Trench

### 3. POST CONSTRUCTION MANAGEMENT

3.1 As set out in the approved CEMP the fencing, construction compound and solar farm field track will be installed first, with the field track being utilised by the telehandlers delivering framework and panels to the fields in a sequential manner. This method of assembly operation seeks to minimise ground disturbance and compaction. However, as a precaution low disturbance subsoiling/chisel ploughing will be undertaken across the fields following completion of works followed by overseeding of bare patches and disturbed areas in accordance with the approved landscape planting plan.



Examples of solar panels stacked ready for installation onto framework.

3.2 Regular maintenance activity will be undertaken as set out below to ensure that drainage features remain functional and fit for purpose throughout the lifetime of the solar farm:

Activity	Frequency	Typical Tasks
Routine Regular Maintenance	Monthly	<ul style="list-style-type: none"> <li>• Litter picking</li> <li>• Swale/ditch inspection, removal of branches etc.</li> </ul>
Meadow Maintenance	6 monthly	<ul style="list-style-type: none"> <li>• Manage the grassland wildflower meadow in accordance with LEMP. 2 cuts per year to maintain a healthy sward. Inspect quality of sward.</li> </ul>
Occasional maintenance	Annually	<ul style="list-style-type: none"> <li>• Silt, branch and debris clearance of swales, infiltration tranches, and ditches.</li> <li>• Re-seeding wild flower meadows where any bare patches are identified.</li> </ul>
Remedial maintenance	Repairs and maintenance as required	<ul style="list-style-type: none"> <li>• track repair, erosion repair of swales and ditches, removal of silt build up.</li> </ul>

# Appendix 1:

## Ashfield Solutions Flood Risk & Drainage Assessment

## Appendix 2:

# Site Landscape Plan

## Appendix 3:

# Swale Cross-section

## Appendix 4:

# Track Cross-section

## Appendix 5:

# Wokingham Borough Council Drainage Consultation Response to Planning Application