

# Gwelfor Trimsaran

BS5837:2012 Tree Survey 4<sup>th</sup> October 2024

Membership No: TE03654





4<sup>th</sup> October 2024

Gwelfor Trimsaran 2024

|                                  |                                                                                                                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Site Location: Gwelfor Trimsaran | Report Reference: 03/23/GWF/V7                                                                                                                                                   |
| Client: Evans Banks Planning Ltd | Date of Report: 4 <sup>th</sup> October 2024<br>Date of Site Visits: 25 <sup>th</sup> January 2 <sup>nd</sup> February 8 <sup>th</sup> February & 24 <sup>th</sup> February 2023 |
| Report Prepared By: Liz Phillips | Survey Carried Out By: Liz Phillips                                                                                                                                              |

RTAC, 6 COURTYARD FLATS, STABLE YARD, STACKPOLE, PEMBROKESHIRE, SA71 5DE

07823332279, [info@rtactrees.co.uk](mailto:info@rtactrees.co.uk), [www.rtactrees.co.uk](http://www.rtactrees.co.uk)

All rights in this report are reserved. No part of it may be reproduced or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, or stored in any retrieval system of any nature, without our written permission. Its content and format are for the exclusive use of the addressee in dealing with this site. It may not be sold, lent, hired out or divulged to any third party not directly involved in this site without our written consent.

This report remains the sole property of RTAC until all payments have been made in full.

[www.rtactrees.co.uk](http://www.rtactrees.co.uk)

## Contents

|          |                                                |           |
|----------|------------------------------------------------|-----------|
| <b>1</b> | <b><u>Introduction</u></b>                     | <b>3</b>  |
| 1.1      | <u>Site Location</u>                           | 3         |
| 1.2      | <u>Instructions</u>                            | 3         |
| 1.3      | <u>Documents Provided</u>                      | 3         |
| 1.4      | <u>Scope of Report</u>                         | 3         |
| 1.5      | <u>Survey Methodology and Limitations</u>      | 4         |
| 1.6      | <u>Planning Policy</u>                         | 5         |
| 1.7      | <u>Statutory Designations</u>                  | 7         |
| 1.8      | <u>Protected Wildlife</u>                      | 7         |
| <b>2</b> | <b><u>Site Analysis</u></b>                    | <b>8</b>  |
| 2.1      | <u>Site Description</u>                        | 8         |
| 2.2      | <u>Proposed Works</u>                          | 8         |
| <b>3</b> | <b><u>The Trees</u></b>                        | <b>8</b>  |
| <b>4</b> | <b><u>Treeworks Recommendations</u></b>        | <b>9</b>  |
| <b>5</b> | <b><u>Arboricultural Impact Assessment</u></b> | <b>10</b> |
| 5.1      | <u>Tree Constraints Plan</u>                   | 10        |
| 5.2      | <u>Arboricultural Impact Assessment</u>        | 10        |
| 5.3      | <u>Tree Protection Plan</u>                    | 11        |
|          | <b><u>Appendix</u></b>                         | <b>12</b> |
| I.       | <u>Survey Data</u>                             | 13-29     |
| II.      | <u>Site Plans</u>                              | 30-34     |
| III.     | <u>Photographs</u>                             | 35        |
| IV.      | <u>Qualifications</u>                          | 36        |
| V.       | <u>Bibliography</u>                            | 37        |

## 1. Introduction

### 1.1 Site Location

1.1.1 Site Address: Gwelfor, Heol Llanelli, Trimsaran, Kidwelly, SA17 4AG.

1.1.2 Ordnance Survey grid reference: SN458042.

### 1.2 Instructions

1.2.1 RTAC has been instructed to produce a report in compliance with BS5837:2012 'Trees in Relation to Design, Demolition and Construction – Recommendations' to inform a proposed residential development on this site. The instruction was given by Richard Banks, Evans Banks Planning Ltd. The original report has been updated to include the new proposed site layout plans.

### 1.3 Documents Provided

#### 1.3.1

| Document Description           | Reference Number | Produced By              | Date       |
|--------------------------------|------------------|--------------------------|------------|
| Location Plan and Google Earth |                  | Evans Banks Planning Ltd |            |
| Site Plan 1:500@A1             | A101             | Evans Banks Planning Ltd | 04/25/19   |
| Topographic Survey 1:500@A1    | J975/500A1/1.1   | Mike Williams Surveys    | April 2012 |
| Site Plan Gwelfor              | A109             | Evans Banks Planning Ltd |            |
| Site Layout Plan 1:500@A1      | AA109            | Evans Banks Planning Ltd | 28/08/2024 |
| Site Layout Plan 1:500@A1      | AA109            | Evans Banks Planning Ltd | 02/09/2024 |
| Site Layout Plan 1:500@A1      | AE3567           | Evans Banks Planning Ltd | 20/09/2024 |

1.3.2 No independent verification or assessment of these documents has been made by RTAC. The Topographic Survey 1:500@A1 and the Site Layout Plan 1:500@A1 issued 20/09/2024 have been used to form the basis of the plans in this report.

### 1.4 Scope of Report

1.4.1 The purpose of this report is to survey all trees within and adjacent to the proposed development area.

1.4.2 This report is concerned with the arboricultural features of the site only and including any physical features which directly affect or are affected by the trees.

1.4.3 This report is a record of the condition of the trees at the time of the survey being carried out, notwithstanding this, the purpose of this survey is to assess the trees in accordance with BS5837:2012 Trees in Relation to Design, Demolition and Construction – Recommendations and with respect to the proposed development and the survey is not intended to be a full tree condition or hazard survey.

## **1.5 Survey Methodology and Limitations**

1.5.1 The site visits were carried out on Wednesday 25<sup>th</sup> January 2023, on this date there was heavy fog and the survey had to be stopped; Thursday 2<sup>nd</sup> February, Wednesday 8<sup>th</sup> February and Friday 24<sup>th</sup> February, the weather on all these visits was cold, overcast and drizzly, but visibility was sufficient for the purposes of this survey.

1.5.2 The heights and crown spreads of all accessible recorded trees were measured with an SNDWAY SW-1000A Laser Distance Meter Telescope. Stem diameters of all accessible trees recorded were measured at 1.5 metres above ground level with a diameter tape. With respect to groups of trees, an estimate of the average dimensions of the trees has been recorded.

1.5.3 Trees recorded have been tagged with two-inch diameter aluminium tags numbered from T434-T435 and T465-T543 inclusive. T535 has not been used.

1.5.4 No vegetation has been removed to inspect trees and where trees are not visible or accessible because of vegetation, fences, ditches or other obstructions a limited assessment has been carried out.

1.5.5 Observations were made using Visual Tree Assessment (VTA) methodology (Mattheck 1994). The data was recorded using Pear Technology Pocket GIS on a Panasonic Toughpad FZ-G1.

1.5.6 This survey was undertaken in accordance with BS5837:2012 Trees in Relation to Design, Demolition and Construction – Recommendations.

1.5.7 The trees have been categorised in accordance with the British Standard 5837:2012 Trees in Relation to Design, Demolition and Construction – Recommendations as listed below:

Category A – trees of high quality with an estimated remaining life expectancy of at least 40 years.

Category B – trees of moderate quality with an estimated remaining life expectancy of at least 20 years.

Category C – trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm.

These categories are subdivided into 1. Arboricultural qualities, 2. Landscape qualities and 3. Cultural values, including conservation.

Trees not suitable for retention have been categorised as U.

See Appendix I for table of categories.

1.5.8 All observations were made from the ground. No climbing surveys were carried out.

1.5.9 No soil samples were taken.

1.5.10 No invasive decay detection techniques have been used.

1.5.11 This report is valid for one year from the date of inspection. Trees are living organisms, and no responsibility can be accepted by the surveyor for the failure of a tree or part of a tree due to adverse weather conditions, *force majeure* or other unpredictable occurrences. It is the responsibility of the tree owner to inspect and maintain his or her trees on a regular basis.

1.5.12 The tree survey was carried out by Liz Phillips TechArborA of RTAC. Liz has worked in the arboricultural industry for 18 years as a tree surgeon, surveyor, local authority tree officer and consultant.

## **1.6 Planning Policy**

1.6.1 Planning Policy Wales Edition 12 February 2024 Chapter 6: Distinctive and Natural Places contains the following policies:

### *Trees, Woodlands and Hedgerows*

*6.4.37 Trees, hedgerows, groups of trees and areas of woodland are of great importance for biodiversity. They are important connecting habitats for resilient ecological networks and make an essential wider contribution to landscape character, culture, heritage and sense of place, air quality, recreation and local climate moderation. They also play a vital role in tackling the climate emergency by locking up carbon, and can provide shade, shelter and foraging opportunities, wider landscape benefits such as air and diffuse pollution interception, natural flood management, and building materials. The importance of trees, in particular urban trees, in creating distinctive and natural places which deliver health and well-being benefits to communities, now and in the future should be promoted as part of plan making and decision taking. Planning authorities must promote the planting of new trees, hedgerows, groups of trees and areas of woodland as part of new development.*

*6.4.38 Welsh native tree and hedge species, characteristic of the local area, provide a strong ecosystem resilience function, and they provide resources for local wildlife, particularly other native plants and species. Native tree and hedge species can also complement opportunities for natural regeneration. Alongside broader woodland habitat types, such as wood pasture, parkland and traditional orchards, native tree and hedge species help to define our cultural heritage and landscape, creating a strong sense of place and connection to the past.*

*6.4.39 Planning authorities must protect trees, hedgerows, groups of trees and areas of woodland where they have ecological value, contribute to the character or amenity of a particular locality, or perform a beneficial green infrastructure function. Planning authorities should consider the importance of trees and woodland, particularly native woodland and valued trees, and should have regard to local authority tree strategies or SPG and the Green Infrastructure Assessment. Planning authorities should adopt appropriate, locally relevant, time sensitive, minimum tree canopy cover targets for their authority area to guide the protection and where appropriate the expansion of canopy cover. The Green Infrastructure Assessment and tools such as NRW's Tree Cover in Wales' Towns and Cities study and Forest Research's i-Tree Eco tool will help establish a baseline of canopy cover and guide the identification of appropriate and measurable canopy targets. Tools to help with design and species choice in urban areas are also available.*

*6.4.40 Where trees, woodland and hedgerows are present, their retention, protection and integration should be identified within planning applications. Where surveys identify trees, hedgerows, groups of trees and areas of woodland capable of making a significant contribution to the area, these trees should be retained and protected. The provision of services and utilities infrastructure to the application site should also avoid the loss of trees, woodlands or hedges and must be considered as part of the*

development proposal; where such trees are lost, they will be subject to the replacement planting ratios set out below.

6.4.41 Whilst most focus within the planning system is targeted at urban trees, planning authorities should recognise the importance of trees within the countryside, either as woodlands, within hedgerows and hedgebanks, or free-standing trees in fields, or as wood pasture. This is particularly important as the effects of climate change are leading towards pests and diseases that are damaging many of our native species in the rural landscape. Positive mechanisms of rural tree retention should be considered, and measures taken to replace them in an effective and economic manner, either with new planting or by allowing them to grow to their full potential.

6.4.42 Permanent removal of trees, woodland and hedgerows will only be permitted where it would achieve significant and clearly defined public benefits. Where individual or groups of trees and hedgerows are removed as part of a proposed scheme, planning authorities must first follow the step-wise approach as set out in paragraph 6.4.15. Where loss is unavoidable developers will be required to provide compensatory planting (which is proportionate to the proposed loss as identified through an assessment of green infrastructure value including biodiversity, landscape value and carbon capture). Replacement planting shall be at a ratio equivalent to the quality, environmental and ecological importance of the tree(s) lost and this must be preferably on site, or immediately adjacent to the site, and at a minimum ratio of at least 3 trees of a similar type and compensatory size planted for every 1 lost. Where a woodland or a shelterbelt area is lost as part of a proposed scheme, the compensation planting must be at a scale, design and species mix reflective of that area lost. In such circumstances, the planting rate must be at a minimum of 1600 trees per hectare for broadleaves, and 2500 trees per hectare for conifers. The planting position for each replacement tree shall be fit to support its establishment and health, and ensure its unconstrained long-term growth to optimise the environmental and ecological benefits it affords.

6.4.43 Ancient woodland, semi-natural woodlands, individual ancient, veteran and heritage trees and ancient hedgerows are irreplaceable natural resources, and have significant landscape, biodiversity and cultural value. Such trees, woodlands and hedgerows are to be afforded protection from development which would result in their loss or deterioration unless very exceptionally there are significant and clearly defined public benefits; this protection must prevent potentially damaging operations and their unnecessary loss. In the case of a site recorded on the Ancient Woodland Inventory, authorities should consider the advice of NRW. Planning authorities should also have regard to the Ancient Tree Inventory, work to improve its completeness and use it to ensure the protection of trees and woodland and identify opportunities for more planting as part of the Green Infrastructure Assessment, particularly in terms of canopy cover.

6.4.44 The protection and planting of trees and hedgerows should be delivered, where appropriate, through locally-specific strategies and policies, through imposing conditions when granting planning permission, and/or by making Tree Preservation Orders (TPOs). They should also be incorporated into Green Infrastructure Assessments and plans.

1.6.2 Carmarthenshire County Council's Local Development Plan 2006-2021 adopted on the 10th of December 2014 contains the following policy:

### *Policy EQ5 Corridors, Networks and Features of Distinctiveness*

*Proposals for development which would not adversely affect those features which contribute local distinctiveness/qualities of the County, and to the management and/or development of ecological networks (wildlife corridor networks), accessible green corridors and their continuity and integrity will be permitted.*

*Proposals which include provision for the retention and appropriate management of such features will be supported (provided they conform to the policies and proposals of this Plan).*

*6.6.34 Woodlands, trees and hedgerows are an integral and ever-changing part of the landscape and townscape character of the County. They provide valuable wildlife habitats, remove carbon dioxide from the air, reduce atmospheric pollution, and provide shelter, shade, and informal recreational opportunities. Whilst some woodland, trees and hedgerows are protected by wildlife or conservation designations, Tree Preservation Orders, or the Hedgerow Regulations, it is also important that those which are not, are retained, protected and wherever possible, added to. (Reference should also be made to Policy GP1 – Sustainability and High-Quality Design, together with the provisions of PPW: Edition 7 - Chapter 5).*

## **1.7 Statutory Designations**

1.7.1 Carmarthenshire County Council's Interactive Map does not show any Tree Preservation Orders or Conservation Area Orders affecting this site.

## **1.8 Protected Wildlife**

1.8.1 Before any treeworks are carried out, the trees should be inspected for any evidence of bats or nesting birds.

1.8.2 It is an offence under the Wildlife and Countryside Act 1981 to intentionally:

- kill, injure or take any wild bird;
- take, damage or destroy the nest of a wild bird included in Schedule ZA1;
- take, damage or destroy the nest of any wild bird while that nest is in use or being built; or
- take or destroy an egg of any wild bird,

1.8.3 It is also an offence to:

- deliberately capture, injure or kill a bat;
- damage or destroy any structure or place which any bat uses for shelter or protection;
- disturb any bat while it is occupying a structure or place which it uses for shelter or protection; or
- obstruct access to any structure or place which any bat uses for shelter or protection.

## 2. Site Analysis

### 2.1 Site Description

2.1.1 The proposed development site is currently in residential use with one large property situated towards the east boundary. The site measures approximately 2.3 hectares and falls steeply from east to west. The site is bordered by outgrown hedgerow trees, mainly semi-mature in age; to the east of the existing property the site is very overgrown with scrub and brambles and to the west of the existing property the site consists of rough grassland.

2.1.2 The site is currently accessed from Llanelli Road to the south. The site drains to the west and the north-west corner of the site was badly waterlogged at the time of this survey.

2.1.3 The site is bordered by the B4308 Trimsaran Road to the south; residential properties to the west and rough grassland and scrub to the north and east.

2.1.4 A high voltage powerline runs parallel to the eastern site boundary.

### 2.2 Proposed Works

2.2.1 The indicative site layout shows that the existing house will be retained, and twenty-seven additional residential buildings and associated accesses and vehicle parking will be constructed at this site. The existing site access from Heol Llanelli will be retained and realigned.

## 3. The Trees

3.1 The trees bordering this site are predominantly outgrown native species agricultural hedgerows with a wider band of trees on the bank adjacent to Trimsaran Road. Eighty individual trees and two groups were recorded during this survey; the tables of species, age class and retention categories are below:-

### 3.2

| Common Name     | Botanical Name            | Number |
|-----------------|---------------------------|--------|
| Groups          | Mixed                     | 2      |
| Sessile oak     | <i>Quercus petraea</i>    | 41     |
| Common beech    | <i>Fagus sylvatica</i>    | 23     |
| Common ash      | <i>Fraxinus excelsior</i> | 6      |
| Goat willow     | <i>Salix caprea</i>       | 5      |
| Wych elm        | <i>Ulmus glabra</i>       | 3      |
| Common hawthorn | <i>Crataegus monogyna</i> | 2      |

### 3.3

| Age Class   | Number of Trees |
|-------------|-----------------|
| Young       | 5               |
| Semi-mature | 70              |
| Mature      | 5               |
| Dead        | 2               |

## 3.4

| Retention Category | Number of Trees |
|--------------------|-----------------|
| A                  | 1               |
| B                  | 8               |
| C                  | 64              |
| U                  | 9               |

## 4. Treeworks Recommendations

## 4.1

| Tree Number                                        | Species                         | Works Required                                       | Priority |
|----------------------------------------------------|---------------------------------|------------------------------------------------------|----------|
| T472<br>T484                                       | Wych elm<br>Goat willow         | Coppice to 1.5m stumps                               | 1 Year   |
| T476/T480/T501/T533<br>T527<br>T528/T530/T531/T534 | Oak<br>Goat willow<br>Ash       | Fell to ground level                                 | 1 Year   |
| T526/T537                                          | Ash                             | Reinspect between June and September for ash dieback | 6 Months |
| T486                                               | Oak                             | Reinspect in spring for deterioration                | 6 Months |
| T478/T529                                          | Oak                             | Remove deadwood and broken/ damaged branches         | 6 Months |
| G1<br>T434<br>T518                                 | Silver birch<br>Hawthorn<br>Oak | Fell to facilitate development                       | 1 Year   |

4.2 All treeworks should be carried out in accordance with BS3998:2010 Recommendations for Treework.

4.3 Ash dieback (*Hymenoscyphus fraxineus*) is present on site and all retained ash trees should be inspected annually between June and September for any signs of infection.

4.4 The west boundary and north-west corner of the site were badly waterlogged at the time of this survey; all trees here are showing signs of dieback and deterioration, probably due to waterlogging. Any retained trees in this area should be monitored for any further signs of deterioration unless drainage is improved.

## 5. Arboricultural Impact Assessment

### 5.1 Tree Constraints Plan

5.1.1 All site plans are in Appendix II.

5.1.2 Above Ground Constraints - current crown spread is marked on the Tree Constraints Plan (TCP). This does not indicate the ultimate crown spread of the individual trees.

5.1.3 Below Ground Constraints – the root protection area (RPA) is a circle of radius 12 x the diameter of the stem of the tree measured at 1.5 metres above ground level. For a multi-stemmed tree, the RPA is calculated using the following formula:

$$\sqrt{(\text{mean stem diameter})^2 \times \text{number of stems}}$$

5.1.4 The RPA is usually depicted as a complete circle; however, this area can be altered in shape to reflect compromised growing conditions such as the presence of buildings, watercourses, etc. In this case, the RPAs of T435, T465, T470, T471, T472, T473, T474, T475, T477, T478, T480, T481, T482, T483, T484, T485, T486, T489, T491, T492, T493, T517, T519, T520, T525, T526, T529, T530, T531, T532, T533, T534, T536, T537, T538, T539, T540, T541, T542 and T543 have been redrawn to reflect the existing site conditions and adjacent highways.

5.1.5 A Shade Plan has been included in Appendix II which demonstrates that the retained trees will have no adverse effect on the proposed development.

### 5.2 Arboricultural Impact Assessment

5.2.1 G1, T434 and T518 will be removed to facilitate the development; all are small C category trees. Nine U category trees need to be removed.

5.2.2 The proposed drainage easement in the north-west corner of the site will pass through the RPAs of the C category trees at this point. The trenches for this pipework must be hand-dug.

### 5.3 Tree Protection Plan

5.3.1 The Tree Protection Plan is in Appendix II.

5.3.2 Any treeworks required must be carried out prior to the commencement of construction works.

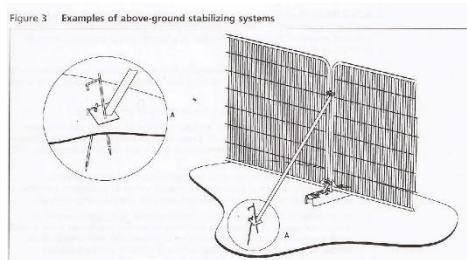
5.3.3 Heras fencing as shown below will be erected in the location marked on the Tree Protection Plan. Pedestrian access only will be permitted to hand-dig the drainage easement.

5.3.4 The fenced off area will be designated as the construction exclusion zone (CEZ). All fencing must be in place before construction works begin and must not be moved or removed until all construction works have finished. Signage as shown below must be attached to the fencing.

5.3.5 Works within the CEZ are restricted as follows:

- No excavations to be carried out unless agreed as part of the planning permission.
- No vehicle access.

- No fires to be lit within the CEZ or within 10 metres of the crown of a tree to be retained.
- No storage of construction materials or spoil within the CEZ.
- No mixing of cement or discharge of contaminants such as fuel within the CEZ.
- Soil levels within the CEZ must not be altered unless agreed as part of the planning permission.
- No signs or lighting to be attached to trees to be retained.



Tree Protection Fencing



Tree Protection Signage

### 5.3.6 Hand-digging Method Statement

- The existing vegetation and topsoil will be removed using hand tools.
- The required trenches will be excavated with hand tools.
- Roots smaller than 25mm in diameter can be pruned back to the edge of the trench using a pruning saw or secateurs. Roots larger than 25mm in diameter or groups of smaller roots must only be severed after inspection by an arborist.
- An arborist must be on site during the excavation works.



4<sup>th</sup> October 2024

Gwelfor Trimsaran 2024

## **APPENDIX**

## I. Survey Data

### Terms used in data tables

#### BS5837 Survey

Tag No – corresponds to numbered metal tag attached to tree.

Species – common and Latin names are given.

Height - measured with a Suunto PM5/360 clinometer to the nearest metre unless otherwise stated.

Stem diameter - measured at 1.5 metres above ground level with a dbh (diameter at breast height) tape.

Crown spread - measured at the cardinal points to 0.5 metres.

Clear - the lowest height of the crown above ground measured in metres.

Age - NP – newly planted; Y – young, a tree in the first third of life expectancy; SM – semi-mature, a tree in the second half of life expectancy; M – mature, tree in final third of life expectancy; OM – over-mature, tree in decline; V – veteran, tree with major physiological decline, surviving beyond the typical age range for the species.

RP – root protection area; radius and area of circle.

Phys. Condition - physiological condition; poor, fair, good, dead or dangerous.

Structural condition - crown, stem and basal area.

Preliminary recommendations - recommendations for remedial works.

Cat - retention category as defined in BS5837:2012 A, B, C and U.

Table 1 Cascade chart for tree quality assessment

| Category and definition                                                                                                                                                   | Criteria (including subcategories where appropriate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Identification on plan                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Trees unsuitable for retention</b> (see Note)                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                       |
| <b>Category U</b><br>Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years | <ul style="list-style-type: none"><li>• Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)</li><li>• Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline</li><li>• Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality</li></ul> <p><i>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</i></p> | See Table 2                                                                                                                           |
| <b>1 Mainly arboricultural qualities</b>                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                       |
| <b>2 Mainly landscape qualities</b>                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                       |
| <b>3 Mainly cultural values, including conservation</b>                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                       |
| <b>Trees to be considered for retention</b>                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                       |
| <b>Category A</b><br><b>Trees of high quality</b> with an estimated remaining life expectancy of at least 40 years                                                        | Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture) |
| <b>Category B</b><br><b>Trees of moderate quality</b> with an estimated remaining life expectancy of at least 20 years                                                    | Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation                                                                                                                                                                                                                                                                                                                                                                                                                  | Trees with material conservation or other cultural value                                                                              |
| <b>Category C</b><br><b>Trees of low quality</b> with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm       | Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Trees with no material conservation or other cultural value                                                                           |

## BS5837:2012 Tree Survey

## RTAC

Client: Evans Banks Planning Ltd  
 Project: Gwelfor Trimsaran  
 Survey Date: 25/01/2023 - 24/02/2023  
 Surveyor: Liz Phillips



6 Courtyard Flats  
 Stable Yard  
 Stackpole  
 Pembrokeshire  
 SA71 5DE  
 Phone: 07823332279

| Tree and Tag No<br>Species                   |  | Hght<br>(m) | Stems         |           | Crown         |              | Age        | RP<br>A (m²)<br>R (m) | Phys<br>Condition  | Structural<br>Condition | Preliminary Recommendations   |                                                                                   |                                  | Cat<br>ERC                                            |
|----------------------------------------------|--|-------------|---------------|-----------|---------------|--------------|------------|-----------------------|--------------------|-------------------------|-------------------------------|-----------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------|
|                                              |  |             | No            | Ø<br>(mm) | Spread<br>(m) | Clear<br>(m) |            |                       |                    |                         | Survey Comment                |                                                                                   |                                  |                                                       |
| G1 no tag                                    |  |             |               |           |               |              |            |                       |                    |                         |                               |                                                                                   |                                  |                                                       |
| Silver Birch<br><i>Betula pendula</i>        |  | 16          | 1             | 200       | N             | 3            |            | SM                    | A: 18.1<br>R: 2.4  | Good                    | C: Good<br>S: Good<br>B: Good | Fell :: Fell to facilitate development                                            |                                  | C.2<br>>40 yrs                                        |
| G2 no tag                                    |  |             |               |           |               |              |            |                       |                    |                         |                               | Estimated Measurements                                                            |                                  |                                                       |
| Common Hazel<br><i>Corylus avellana</i>      |  | 6           | 10            | 126 (Eq)  | N             | 3            |            | SM                    | A: 7.2<br>R: 1.51  | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                            |                                  | C.2<br>>40 yrs                                        |
|                                              |  |             |               |           | E             | 3            |            |                       |                    |                         |                               | Predominantly coppiced hazel with young ash, sycamore, wych elm and silver birch. |                                  |                                                       |
|                                              |  |             |               |           | S             | 3            |            |                       |                    |                         |                               |                                                                                   |                                  |                                                       |
|                                              |  |             |               |           | W             | 3            |            |                       |                    |                         |                               |                                                                                   |                                  |                                                       |
| T434 434                                     |  |             |               |           |               |              |            |                       |                    |                         |                               |                                                                                   |                                  |                                                       |
| Common Hawthorn<br><i>Crataegus monogyna</i> |  | 6           | 5             | 298 (Eq)  | N             | 2            | 1.5        | SM                    | A: 40.1<br>R: 3.57 | Good                    | C: Good<br>S: Good<br>B: Good | Fell :: Fell to facilitate development                                            |                                  | C.2<br>>40 yrs                                        |
|                                              |  |             |               |           | E             | 2            | 1.5        |                       |                    |                         |                               |                                                                                   |                                  |                                                       |
|                                              |  |             |               |           | S             | 3            | 2          |                       |                    |                         |                               |                                                                                   |                                  |                                                       |
|                                              |  |             |               |           | W             | 3            | 2          |                       |                    |                         |                               |                                                                                   |                                  |                                                       |
| T435 435                                     |  |             |               |           |               |              |            |                       |                    |                         |                               |                                                                                   |                                  |                                                       |
| Sessile Oak<br><i>Quercus petraea</i>        |  | 10          | 1             | 470       | N             | 3            | 4          | SM                    | A: 99.9<br>R: 5.63 | Fair                    | C: Fair<br>S: Ivy<br>B: Good  | No action :: No action                                                            |                                  | C.2<br>20 to 40 yrs                                   |
|                                              |  |             |               |           | E             | 6            | 3          |                       |                    |                         |                               | Minor deadwood in crown; crown appears to be in slight decline.                   |                                  |                                                       |
|                                              |  |             |               |           | S             | 5            | 3          |                       |                    |                         |                               |                                                                                   |                                  |                                                       |
|                                              |  |             |               |           | W             | 4            | 5          |                       |                    |                         |                               |                                                                                   |                                  |                                                       |
|                                              |  |             |               |           |               |              |            |                       |                    |                         |                               |                                                                                   |                                  |                                                       |
| Age Classifications:                         |  | N           | Newly planted | EM        | Early Mature  |              | Condition: |                       | C                  | Crown                   | Stems:                        |                                                                                   | Ø                                | Diameter                                              |
|                                              |  | Y           | Young         | M         | Mature        |              |            |                       | S                  | Stem                    |                               |                                                                                   | (Eq)                             | Equivalent stem diameter using BS5837:2012 definition |
|                                              |  | SM          | Semi-mature   | OM        | Over Mature   |              |            |                       | B                  | Basal area              | ERC:                          |                                                                                   | Estimated Remaining Contribution |                                                       |

| Tree and Tag No<br>Species             |  | Hght<br>(m)  | Stems                                 |               | Crown                                 |                    | Age              | RP<br>A (m²)<br>R (m) | Phys<br>Condition           | Structural<br>Condition | Preliminary Recommendations   |                                                                                                                                 |                                                                   | Cat<br>ERC                               |
|----------------------------------------|--|--------------|---------------------------------------|---------------|---------------------------------------|--------------------|------------------|-----------------------|-----------------------------|-------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------|
|                                        |  |              | No                                    | Ø<br>(mm)     | Spread<br>(m)                         | Clear<br>(m)       |                  |                       |                             |                         | Survey Comment                |                                                                                                                                 |                                                                   |                                          |
| T465      465                          |  |              |                                       |               |                                       |                    |                  |                       |                             |                         |                               |                                                                                                                                 |                                                                   |                                          |
| Common Beech<br><i>Fagus sylvatica</i> |  | 12           | 1                                     | 420           | N<br>E<br>S<br>W                      | 6<br>6<br>3<br>5   | 3<br><br>4<br>5  | SM<br><br><br>        | A: 79.8<br>R: 5.03          | Good                    | C: Good<br>S: Fair<br>B: Good | No action :: No action<br><br>Inrolled rib with large bark wound to 1m south side of tree - possible cavity and weak spot here. |                                                                   | C.2<br><br>10 to 20 yrs                  |
| T466      466                          |  |              |                                       |               |                                       |                    |                  |                       |                             |                         |                               |                                                                                                                                 |                                                                   |                                          |
| Common Beech<br><i>Fagus sylvatica</i> |  | 12           | 1                                     | 170           | N<br>E<br>S<br>W                      | 1.5<br>3<br>1<br>2 | 3<br>4<br>6<br>1 | Y<br><br><br>         | A: 13.1<br>R: 2.04          | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                                                                          |                                                                   | C.2<br><br>>40 yrs                       |
| T467      467                          |  |              |                                       |               |                                       |                    |                  |                       |                             |                         |                               |                                                                                                                                 |                                                                   |                                          |
| Common Beech<br><i>Fagus sylvatica</i> |  | 13           | 1                                     | 180           | N<br>E<br>S<br>W                      | 2<br>3<br>2<br>2   | 6<br>5<br>6<br>8 | SM<br><br><br>        | A: 14.7<br>R: 2.16          | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                                                                          |                                                                   | C.2<br><br>>40 yrs                       |
| T468      468                          |  |              |                                       |               |                                       |                    |                  |                       |                             |                         |                               |                                                                                                                                 |                                                                   |                                          |
| Wych Elm<br><i>Ulmus glabra</i>        |  | 13           | 1                                     | 180           | N<br>E<br>S<br>W                      | 2<br>3<br>1<br>1.5 | 4<br>6<br>6<br>5 | SM<br><br><br>        | A: 14.7<br>R: 2.16          | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                                                                          |                                                                   | C.2<br><br>>40 yrs                       |
| T469      469                          |  |              |                                       |               |                                       |                    |                  |                       |                             |                         |                               |                                                                                                                                 |                                                                   |                                          |
| Wych Elm<br><i>Ulmus glabra</i>        |  | 12           | 1                                     | 180           | N<br>E<br>S<br>W                      | 3<br>3<br>2<br>2   | 4<br>6<br>6<br>5 | SM<br><br><br>        | A: 14.7<br>R: 2.16          | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                                                                          |                                                                   | C.2<br><br>>40 yrs                       |
| T470      470                          |  |              |                                       |               |                                       |                    |                  |                       |                             |                         |                               |                                                                                                                                 |                                                                   |                                          |
| Goat Willow<br><i>Salix caprea</i>     |  | 8            | 5                                     | 389 (Eq)      | N<br>E<br>S<br>W                      | 3<br>4<br>3<br>3   | 0<br>0<br>1<br>2 | SM<br><br><br>        | A: 68.6<br>R: 4.67          | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                                                                          |                                                                   | C.2<br><br>>40 yrs                       |
|                                        |  |              |                                       |               |                                       |                    |                  |                       |                             |                         |                               |                                                                                                                                 |                                                                   |                                          |
| Age Classifications:                   |  | N<br>Y<br>SM | Newly planted<br>Young<br>Semi-mature | EM<br>M<br>OM | Early Mature<br>Mature<br>Over Mature | Condition:         |                  | C<br>S<br>B           | Crown<br>Stem<br>Basal area | Stems:                  |                               | Ø<br>(Eq)                                                                                                                       | Diameter<br>Equivalent stem diameter using BS5837:2012 definition | ERC:<br>Estimated Remaining Contribution |

| Tree and Tag No<br>Species             |  | Hght<br>(m)  | Stems                                 |               | Crown                                 |              | Age | RP<br>A (m²)<br>R (m) | Phys<br>Condition           | Structural<br>Condition | Preliminary Recommendations   |                                                                                   |                             | Cat<br>ERC                       |
|----------------------------------------|--|--------------|---------------------------------------|---------------|---------------------------------------|--------------|-----|-----------------------|-----------------------------|-------------------------|-------------------------------|-----------------------------------------------------------------------------------|-----------------------------|----------------------------------|
|                                        |  |              | No                                    | Ø<br>(mm)     | Spread<br>(m)                         | Clear<br>(m) |     |                       |                             |                         | Survey Comment                |                                                                                   |                             |                                  |
| T471 471                               |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                                   |                             |                                  |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 11           | 1                                     | 530           | N                                     | 4            | 7   | SM                    | A: 127.1<br>R: 6.36         | Poor                    | C: Poor<br>S: Good<br>B: Good | No action :: No action<br>Major deadwood in crown; crown in decline.              | C.2<br>10 to 20<br>yrs      |                                  |
| T472 472                               |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                                   |                             |                                  |
| Wych Elm<br><i>Ulmus glabra</i>        |  | 8            | 1                                     | 410           | N                                     | 7            | 4   | SM                    | A: 76.1<br>R: 4.92          | Good                    | C: Good<br>S: Poor<br>B: Good | Coppice :: To 1.5m stumps<br>Cavity at top of main stem - stem starting to split. | C.2<br>>40 yrs              |                                  |
| T473 473                               |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                                   |                             |                                  |
| Goat Willow<br><i>Salix caprea</i>     |  | 8            | 2                                     | 292 (Eq)      | N                                     | 2            | 2   | SM                    | A: 38.5<br>R: 3.5           | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                            | C.2<br>>40 yrs              |                                  |
| T474 474                               |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                                   |                             |                                  |
| Common Beech<br><i>Fagus sylvatica</i> |  | 10           | 4                                     | 451 (Eq)      | N                                     | 4            | 3   | SM                    | A: 92.2<br>R: 5.41          | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                            | C.2<br>>40 yrs              |                                  |
| T475 475                               |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                                   |                             |                                  |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 4            | 1                                     | 220           | N                                     | 4            | 3   | Y                     | A: 21.9<br>R: 2.64          | Poor                    | C: Poor<br>S: Good<br>B: Good | No action :: No action<br>Suppressed; mishapen crown.                             | C.2<br>10 to 20<br>yrs      |                                  |
| T476 476                               |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                                   |                             |                                  |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 7            | 1                                     | 300           | N                                     | 1            |     | Dead                  | A: 40.7<br>R: 3.59          | Dead                    | C:                            | Fell :: Fell to ground level                                                      | Estimated Measurements<br>U |                                  |
|                                        |  |              |                                       |               | E                                     | 2            |     |                       |                             | S:                      |                               |                                                                                   |                             |                                  |
|                                        |  |              |                                       |               | S                                     | 3            |     |                       |                             | B:                      |                               |                                                                                   |                             |                                  |
|                                        |  |              |                                       |               | W                                     | 1            |     |                       |                             |                         |                               |                                                                                   |                             |                                  |
| Age Classifications:                   |  | N<br>Y<br>SM | Newly planted<br>Young<br>Semi-mature | EM<br>M<br>OM | Early Mature<br>Mature<br>Over Mature | Condition:   |     | C<br>S<br>B           | Crown<br>Stem<br>Basal area | Stems:                  | Ø<br>(Eq)                     | Diameter<br>Equivalent stem diameter using BS5837:2012 definition                 | ERC:                        | Estimated Remaining Contribution |

| Tree and Tag No<br>Species             |  | Hght<br>(m)  | Stems                                 |               | Crown                                 |                  | Age              | RP<br>A (m²)<br>R (m)     | Phys<br>Condition           | Structural<br>Condition       | Preliminary Recommendations                                                                                                              |                                                                                                         | Cat<br>ERC          |                     |
|----------------------------------------|--|--------------|---------------------------------------|---------------|---------------------------------------|------------------|------------------|---------------------------|-----------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------|---------------------|
|                                        |  |              | No                                    | Ø<br>(mm)     | Spread<br>(m)                         | Clear<br>(m)     |                  |                           |                             |                               | Survey Comment                                                                                                                           |                                                                                                         |                     |                     |
| T477 477                               |  |              |                                       |               |                                       |                  |                  |                           |                             |                               |                                                                                                                                          |                                                                                                         |                     |                     |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 11           | 1                                     | 260           | N<br>E<br>S<br>W                      | 1<br>6<br>4<br>3 | 6<br>4<br>2<br>7 | SM<br>A: 30.6<br>R: 3.12  | Good                        | C: Good<br>S: Good<br>B: Good | No action :: No action                                                                                                                   |                                                                                                         | C.2<br>>40 yrs      |                     |
| T478 478                               |  |              |                                       |               |                                       |                  |                  |                           |                             |                               |                                                                                                                                          |                                                                                                         |                     |                     |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 10           | 1                                     | 640           | N<br>E<br>S<br>W                      | 6<br>7<br>8<br>6 | 5<br>1<br>2<br>6 | SM<br>A: 185.3<br>R: 7.68 | Fair                        | C: Fair<br>S: Good<br>B: Good | Remove :: Suspended or broken branches<br>Remove :: Major dead wood<br><br>Deadwood, broken branches and hazard beam east side of crown. |                                                                                                         | C.2<br>>40 yrs      |                     |
| T479 no tag                            |  |              |                                       |               |                                       |                  |                  |                           |                             |                               |                                                                                                                                          |                                                                                                         |                     |                     |
| Common Beech<br><i>Fagus sylvatica</i> |  | 8            | 1                                     | 240           | N<br>E<br>S<br>W                      | 3<br>6<br>2<br>2 | 2<br>3<br>3<br>6 | SM<br>A: 26.1<br>R: 2.88  | Fair                        | C: Fair<br>S: Good<br>B: Good | No action :: No action<br><br>Minor dieback in crown.                                                                                    |                                                                                                         | C.2<br>>40 yrs      |                     |
| T480 480                               |  |              |                                       |               |                                       |                  |                  |                           |                             |                               |                                                                                                                                          |                                                                                                         |                     |                     |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 6            | 1                                     | 350           | N<br>E<br>S<br>W                      | 3<br>1<br>3<br>1 | Dead             | A: 55.4<br>R: 4.19        | Dead                        | C: Poor<br>S: Poor<br>B:      | Fell :: Fell to ground level                                                                                                             |                                                                                                         | U                   |                     |
| T481 481                               |  |              |                                       |               |                                       |                  |                  |                           |                             |                               |                                                                                                                                          |                                                                                                         |                     |                     |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 11           | 1                                     | 380           | N<br>E<br>S<br>W                      | 5<br>6<br>5<br>4 |                  | 5<br>4<br>5<br>5          | SM<br>A: 65.3<br>R: 4.55    | Fair                          | C: Poor<br>S: Good<br>B: Good                                                                                                            | No action :: No action<br><br>Large amounts of deadwood west side; minor dieback in remainder of crown. |                     | C.2<br>20 to 40 yrs |
| T482 482                               |  |              |                                       |               |                                       |                  |                  |                           |                             |                               |                                                                                                                                          |                                                                                                         |                     |                     |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 8            | 1                                     | 300           | N<br>E<br>S<br>W                      | 3<br>4<br>6<br>3 | 6<br>6<br>5<br>6 | SM<br>A: 40.7<br>R: 3.59  | Fair                        | C: Fair<br>S: Good<br>B: Good | No action :: No action<br><br>Minor dieback and deadwood in crown.                                                                       |                                                                                                         | C.2<br>20 to 40 yrs |                     |
|                                        |  |              |                                       |               |                                       |                  |                  |                           |                             |                               |                                                                                                                                          |                                                                                                         |                     |                     |
| Age Classifications:                   |  | N<br>Y<br>SM | Newly planted<br>Young<br>Semi-mature | EM<br>M<br>OM | Early Mature<br>Mature<br>Over Mature | Condition:       |                  | C<br>S<br>B               | Crown<br>Stem<br>Basal area | Stems:                        |                                                                                                                                          | Ø Diameter<br>(Eq) Equivalent stem diameter using BS5837:2012 definition                                |                     |                     |
|                                        |  |              |                                       |               |                                       |                  |                  |                           |                             | ERC:                          |                                                                                                                                          | Estimated Remaining Contribution                                                                        |                     |                     |

| Tree and Tag No<br>Species             |  | Hght<br>(m)  | Stems                                 |               | Crown                                 |              | Age | RP<br>A (m²)<br>R (m) | Phys<br>Condition  | Structural<br>Condition     | Preliminary Recommendations   |                                                                       |                                                                          | Cat<br>ERC   |
|----------------------------------------|--|--------------|---------------------------------------|---------------|---------------------------------------|--------------|-----|-----------------------|--------------------|-----------------------------|-------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------|--------------|
|                                        |  |              | No                                    | Ø<br>(mm)     | Spread<br>(m)                         | Clear<br>(m) |     |                       |                    |                             | Survey Comment                |                                                                       |                                                                          |              |
| T483 483                               |  |              |                                       |               |                                       |              |     |                       |                    |                             |                               |                                                                       |                                                                          |              |
| Common Beech<br><i>Fagus sylvatica</i> |  | 7            | 9                                     | 360 (Eq)      | N                                     | 2            | 5   | SM                    | A: 58.6<br>R: 4.31 | Good                        | C: Good<br>S: Good<br>B: Good | No action :: No action                                                |                                                                          | C.2          |
|                                        |  |              |                                       |               | E                                     | 6            | 1   |                       |                    |                             |                               |                                                                       |                                                                          | >40 yrs      |
|                                        |  |              |                                       |               | S                                     | 5            | 0.5 |                       |                    |                             |                               | Outgrown coppiced beech.                                              |                                                                          |              |
|                                        |  |              |                                       |               | W                                     | 3            | 6   |                       |                    |                             |                               |                                                                       |                                                                          |              |
| T484 484                               |  |              |                                       |               |                                       |              |     |                       |                    |                             |                               |                                                                       |                                                                          |              |
| Goat Willow<br><i>Salix caprea</i>     |  | 7            | 3                                     | 346 (Eq)      | N                                     | 7            | 0   | M                     | A: 54.3<br>R: 4.15 | Good                        | C: Poor<br>S: Good<br>B: Good | Coppice :: To 1.5m stumps                                             |                                                                          | C.2          |
|                                        |  |              |                                       |               | E                                     | 7            | 0   |                       |                    |                             |                               |                                                                       |                                                                          | >40 yrs      |
|                                        |  |              |                                       |               | S                                     | 5            | 4   |                       |                    |                             |                               | Split stems in crown.                                                 |                                                                          |              |
|                                        |  |              |                                       |               | W                                     | 5            | 4   |                       |                    |                             |                               |                                                                       |                                                                          |              |
| T485 485                               |  |              |                                       |               |                                       |              |     |                       |                    |                             |                               |                                                                       |                                                                          |              |
| Common Beech<br><i>Fagus sylvatica</i> |  | 10           | 2                                     | 412 (Eq)      | N                                     | 4            | 6   | SM                    | A: 76.9<br>R: 4.94 | Good                        | C: Good<br>S: Good<br>B: Good | No action :: No action                                                |                                                                          | C.2          |
|                                        |  |              |                                       |               | E                                     | 3            | 5   |                       |                    |                             |                               |                                                                       |                                                                          | >40 yrs      |
|                                        |  |              |                                       |               | S                                     | 3            | 6   |                       |                    |                             |                               | Outgrown coppice.                                                     |                                                                          |              |
|                                        |  |              |                                       |               | W                                     | 3            | 7   |                       |                    |                             |                               |                                                                       |                                                                          |              |
| T486 486                               |  |              |                                       |               |                                       |              |     |                       |                    |                             |                               |                                                                       |                                                                          |              |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 9            | 1                                     | 410           | N                                     | 4            | 6   | SM                    | A: 76.1<br>R: 4.92 | Decline                     | C: Poor<br>S: Good<br>B: Good | Re-inspect :: See Comment                                             |                                                                          | C.2          |
|                                        |  |              |                                       |               | E                                     | 6            | 3   |                       |                    |                             |                               |                                                                       |                                                                          | 10 to 20 yrs |
|                                        |  |              |                                       |               | S                                     | 5            | 5   |                       |                    |                             |                               | Large amounts of deadwood and dieback in crown - reinspect in spring. |                                                                          |              |
|                                        |  |              |                                       |               | W                                     | 5            | 6   |                       |                    |                             |                               |                                                                       |                                                                          |              |
| T487 487                               |  |              |                                       |               |                                       |              |     |                       |                    |                             |                               |                                                                       |                                                                          |              |
| Common Beech<br><i>Fagus sylvatica</i> |  | 9            | 2                                     | 269 (Eq)      | N                                     | 5            | 6   | SM                    | A: 32.8<br>R: 3.23 | Good                        | C: Good<br>S: Good<br>B: Good | No action :: No action                                                |                                                                          | C.2          |
|                                        |  |              |                                       |               | E                                     | 5            | 5   |                       |                    |                             |                               |                                                                       |                                                                          | >40 yrs      |
|                                        |  |              |                                       |               | S                                     | 1            | 7   |                       |                    |                             |                               |                                                                       |                                                                          |              |
|                                        |  |              |                                       |               | W                                     | 2            | 6   |                       |                    |                             |                               |                                                                       |                                                                          |              |
| T488 488                               |  |              |                                       |               |                                       |              |     |                       |                    |                             |                               |                                                                       |                                                                          |              |
| Common Beech<br><i>Fagus sylvatica</i> |  | 9            | 2                                     | 216 (Eq)      | N                                     | 3            |     | SM                    | A: 21.2<br>R: 2.59 | Fair                        | C: Fair<br>S: Good<br>B: Good | No action :: No action                                                |                                                                          | C.2          |
|                                        |  |              |                                       |               | E                                     | 2            |     |                       |                    |                             |                               |                                                                       |                                                                          | 20 to 40 yrs |
|                                        |  |              |                                       |               | S                                     | 3            |     |                       |                    |                             |                               | Minor dieback in crown.                                               |                                                                          |              |
|                                        |  |              |                                       |               | W                                     | 2            |     |                       |                    |                             |                               |                                                                       |                                                                          |              |
| Age Classifications:                   |  | N<br>Y<br>SM | Newly planted<br>Young<br>Semi-mature | EM<br>M<br>OM | Early Mature<br>Mature<br>Over Mature |              |     | Condition:            | C<br>S<br>B        | Crown<br>Stem<br>Basal area |                               | Stems:                                                                | Ø Diameter<br>(Eq) Equivalent stem diameter using BS5837:2012 definition |              |
|                                        |  |              |                                       |               |                                       |              |     |                       |                    |                             |                               | ERC:                                                                  | Estimated Remaining Contribution                                         |              |

| Tree and Tag No<br>Species             |              | Hght<br>(m)                           | Stems         |                                       | Crown         |              | Age        | RP<br>A (m²)<br>R (m) | Phys<br>Condition           | Structural<br>Condition | Preliminary Recommendations   |                                                                                                     |                                                                          | Cat<br>ERC                            |
|----------------------------------------|--------------|---------------------------------------|---------------|---------------------------------------|---------------|--------------|------------|-----------------------|-----------------------------|-------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------|
|                                        |              |                                       | No            | Ø<br>(mm)                             | Spread<br>(m) | Clear<br>(m) |            |                       |                             |                         | Survey Comment                |                                                                                                     |                                                                          |                                       |
| T489 489                               |              |                                       |               |                                       |               |              |            |                       |                             |                         |                               |                                                                                                     |                                                                          |                                       |
| Common Beech<br><i>Fagus sylvatica</i> |              | 10                                    | 5             | 322 (Eq)                              | N             | 1            | 3          | SM                    | A: 46.9<br>R: 3.86          | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                                              |                                                                          | C.2<br>>40 yrs                        |
| T490 490                               |              |                                       |               |                                       |               |              |            |                       |                             |                         |                               |                                                                                                     |                                                                          |                                       |
| Sessile Oak<br><i>Quercus petraea</i>  |              | 10                                    | 2             | 300 (Eq)                              | N             | 6            | 6          | Y                     | A: 40.7<br>R: 3.59          | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                                              |                                                                          | C.2<br>>40 yrs                        |
| T491 491                               |              |                                       |               |                                       |               |              |            |                       |                             |                         |                               |                                                                                                     |                                                                          |                                       |
| Common Beech<br><i>Fagus sylvatica</i> |              | 7                                     | 3             | 301 (Eq)                              | N             | 4            | 5          | SM                    | A: 40.9<br>R: 3.6           | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                                              |                                                                          | C.2<br>>40 yrs                        |
| T492 492                               |              |                                       |               |                                       |               |              |            |                       |                             |                         |                               |                                                                                                     |                                                                          |                                       |
| Sessile Oak<br><i>Quercus petraea</i>  |              | 9                                     | 1             | 360                                   | N             | 3            | 6          | SM                    | A: 58.6<br>R: 4.31          | Fair                    | C: Fair<br>S: Good<br>B: Good | No action :: No action<br><br>Minor deadwood and dieback in crown; branch torn out at 3m east side. |                                                                          | C.2<br>20 to 40 yrs                   |
| T493 493                               |              |                                       |               |                                       |               |              |            |                       |                             |                         |                               |                                                                                                     |                                                                          |                                       |
| Common Beech<br><i>Fagus sylvatica</i> |              | 10                                    | 3             | 417 (Eq)                              | N             | 4            | 5          | SM                    | A: 78.5<br>R: 4.99          | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                                              |                                                                          | C.2<br>>40 yrs                        |
| T494 494                               |              |                                       |               |                                       |               |              |            |                       |                             |                         |                               |                                                                                                     |                                                                          |                                       |
| Common Beech<br><i>Fagus sylvatica</i> |              | 10                                    | 1             | 370                                   | N             | 5            | 6          | SM                    | A: 61.9<br>R: 4.43          | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                                              |                                                                          | C.2<br>>40 yrs                        |
|                                        |              |                                       |               |                                       |               |              |            |                       |                             |                         |                               |                                                                                                     |                                                                          |                                       |
| Age Classifications:                   | N<br>Y<br>SM | Newly planted<br>Young<br>Semi-mature | EM<br>M<br>OM | Early Mature<br>Mature<br>Over Mature |               |              | Condition: | C<br>S<br>B           | Crown<br>Stem<br>Basal area |                         |                               | Stems:                                                                                              | Ø Diameter<br>(Eq) Equivalent stem diameter using BS5837:2012 definition | ERC: Estimated Remaining Contribution |

| Tree and Tag No<br>Species             |  | Hght<br>(m)  | Stems                                 |               | Crown                                 |              | Age | RP<br>A (m²)<br>R (m) | Phys<br>Condition           | Structural<br>Condition | Preliminary Recommendations   |                                                                            | Cat<br>ERC                               |
|----------------------------------------|--|--------------|---------------------------------------|---------------|---------------------------------------|--------------|-----|-----------------------|-----------------------------|-------------------------|-------------------------------|----------------------------------------------------------------------------|------------------------------------------|
|                                        |  |              | No                                    | Ø<br>(mm)     | Spread<br>(m)                         | Clear<br>(m) |     |                       |                             |                         | Survey Comment                |                                                                            |                                          |
| T495 495                               |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                            |                                          |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 10           | 1                                     | 600           | N                                     | 6            | 4   | SM                    | A: 162.9<br>R: 7.2          | Fair                    | C: Fair<br>S: Good<br>B: Good | No action :: No action<br>Deadwood in crown; minor dieback.                | C.2<br>20 to 40<br>yrs                   |
| T496 496                               |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                            |                                          |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 11           | 1                                     | 490           | N                                     | 1            | 5   | SM                    | A: 108.6<br>R: 5.87         | Fair                    | C: Poor<br>S: Fair<br>B: Good | No action :: No action<br>Deadwood and dieback in crown; leaning to south. | C.2<br>20 to 40<br>yrs                   |
| T497 497                               |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                            |                                          |
| Common Beech<br><i>Fagus sylvatica</i> |  | 11           | 3                                     | 490 (Eq)      | N                                     | 4            | 5   | SM                    | A: 108.6<br>R: 5.87         | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                     | C.2<br>>40 yrs                           |
| T498 498                               |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                            |                                          |
| Common Beech<br><i>Fagus sylvatica</i> |  | 11           | 1                                     | 380           | N                                     | 4            | 4   | SM                    | A: 65.3<br>R: 4.55          | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                     | C.2<br>>40 yrs                           |
| T499 499                               |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                            |                                          |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 10           | 1                                     | 280           | N                                     | 1            | 7   | Y                     | A: 35.5<br>R: 3.36          | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                     | C.2<br>>40 yrs                           |
| T500 500                               |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                            |                                          |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 12           | 1                                     | 680           | N                                     | 9            | 5   | SM                    | A: 209.2<br>R: 8.16         | Fair                    | C: Fair<br>S: Good<br>B: Good | No action :: No action<br>Minor deadwood and dieback in crown.             | C.2<br>20 to 40<br>yrs                   |
|                                        |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                            |                                          |
| Age Classifications:                   |  | N<br>Y<br>SM | Newly planted<br>Young<br>Semi-mature | EM<br>M<br>OM | Early Mature<br>Mature<br>Over Mature | Condition:   |     | C<br>S<br>B           | Crown<br>Stem<br>Basal area | Stems:                  |                               | Ø Diameter<br>(Eq) Equivalent stem diameter using BS5837:2012 definition   | ERC:<br>Estimated Remaining Contribution |

| Tree and Tag No<br>Species             |  | Hght<br>(m)  | Stems                                 |               | Crown                                 |                    | Age | RP<br>A (m²)<br>R (m) | Phys<br>Condition           | Structural<br>Condition       | Preliminary Recommendations                                                                         |                                                                          |                                          | Cat<br>ERC |
|----------------------------------------|--|--------------|---------------------------------------|---------------|---------------------------------------|--------------------|-----|-----------------------|-----------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------|------------|
|                                        |  |              | No                                    | Ø<br>(mm)     | Spread<br>(m)                         | Clear<br>(m)       |     |                       |                             |                               | Survey Comment                                                                                      |                                                                          |                                          |            |
| T501 501                               |  |              |                                       |               |                                       |                    |     |                       |                             |                               |                                                                                                     | Estimated Measurements                                                   |                                          |            |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 11           | 1                                     | 480           | N<br>E<br>S<br>W                      | 3<br>1<br>3<br>2   | SM  | A: 104.2<br>R: 5.75   | Dead                        | C: Poor<br>S: Poor<br>B: Poor | Fell :: Fell to ground level<br>Dead.                                                               | U                                                                        |                                          |            |
| T502 502                               |  |              |                                       |               |                                       |                    |     |                       |                             |                               |                                                                                                     |                                                                          |                                          |            |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 13           | 1                                     | 690           | N<br>E<br>S<br>W                      | 10<br>2<br>1<br>3  | SM  | A: 215.4<br>R: 8.28   | Poor                        | C: Poor<br>S: Fair<br>B: Good | No action :: No action<br>Large amount of deadwood in crown; leaning to north.                      | C.2<br>10 to 20<br>yrs                                                   |                                          |            |
| T503 503                               |  |              |                                       |               |                                       |                    |     |                       |                             |                               |                                                                                                     |                                                                          |                                          |            |
| Common Beech<br><i>Fagus sylvatica</i> |  | 14           | 1                                     | 800           | N<br>E<br>S<br>W                      | 10<br>8<br>7<br>7  | SM  | A: 289.6<br>R: 9.6    | Good                        | C: Good<br>S: Good<br>B: Good | No action :: No action<br>Minor deadwood in lower crown.                                            | B.2<br>>40 yrs                                                           |                                          |            |
| T504 504                               |  |              |                                       |               |                                       |                    |     |                       |                             |                               |                                                                                                     |                                                                          |                                          |            |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 10           | 1                                     | 270           | N<br>E<br>S<br>W                      | 6<br>5<br>2<br>1.5 | Y   | A: 33<br>R: 3.24      | Fair                        | C: Fair<br>S: Fair<br>B: Good | No action :: No action<br>Suppressed leaning to south; minor deadwood and broken branches in crown. | C.2<br>20 to 40<br>yrs                                                   |                                          |            |
| T505 505                               |  |              |                                       |               |                                       |                    |     |                       |                             |                               |                                                                                                     |                                                                          |                                          |            |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 10           | 1                                     | 300           | N<br>E<br>S<br>W                      | 1.5<br>4<br>5<br>6 | SM  | A: 40.7<br>R: 3.59    | Fair                        | C: Fair<br>S: Good<br>B: Good | No action :: No action<br>Suppressed; leaning to south.                                             | C.2<br>20 to 40<br>yrs                                                   |                                          |            |
| T506 506                               |  |              |                                       |               |                                       |                    |     |                       |                             |                               |                                                                                                     |                                                                          |                                          |            |
| Sessile Oak<br><i>Quercus petraea</i>  |  | 12           | 1                                     | 240           | N<br>E<br>S<br>W                      | 2<br>3<br>2<br>3   | SM  | A: 26.1<br>R: 2.88    | Poor                        | C: Fair<br>S: Good<br>B: Good | No action :: No action<br>Minor deadwood and dieback in crown.                                      | C.2<br>10 to 20<br>yrs                                                   |                                          |            |
|                                        |  |              |                                       |               |                                       |                    |     |                       |                             |                               |                                                                                                     |                                                                          |                                          |            |
| Age Classifications:                   |  | N<br>Y<br>SM | Newly planted<br>Young<br>Semi-mature | EM<br>M<br>OM | Early Mature<br>Mature<br>Over Mature | Condition:         |     | C<br>S<br>B           | Crown<br>Stem<br>Basal area | Stems:                        |                                                                                                     | Ø Diameter<br>(Eq) Equivalent stem diameter using BS5837:2012 definition | ERC:<br>Estimated Remaining Contribution |            |

| Tree and Tag No<br>Species                                                                                                                                                                                                                                                                          |    | Hght<br>(m) | Stems |           | Crown         |              | Age | RP<br>A (m²)<br>R (m) | Phys<br>Condition | Structural<br>Condition       | Preliminary Recommendations |  |                | Cat<br>ERC |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------|-------|-----------|---------------|--------------|-----|-----------------------|-------------------|-------------------------------|-----------------------------|--|----------------|------------|
|                                                                                                                                                                                                                                                                                                     |    |             | No    | Ø<br>(mm) | Spread<br>(m) | Clear<br>(m) |     |                       |                   |                               | Survey Comment              |  |                |            |
| T507 507                                                                                                                                                                                                                                                                                            |    |             |       |           |               |              |     |                       |                   |                               |                             |  |                |            |
| Common Beech<br><i>Fagus sylvatica</i>                                                                                                                                                                                                                                                              | 10 | 10          | 569   | (Eq) N    | 8             | 4            | SM  | A: 146.6<br>R: 6.83   | Good              | C: Good<br>S: Good<br>B: Good | No action :: No action      |  | C.2<br>>40 yrs |            |
| T508 508                                                                                                                                                                                                                                                                                            |    |             |       |           |               |              |     |                       |                   |                               |                             |  |                |            |
| Common Beech<br><i>Fagus sylvatica</i>                                                                                                                                                                                                                                                              | 11 | 6           | 441   | (Eq) N    | 4             | 6            | SM  | A: 88<br>R: 5.29      | Good              | C: Good<br>S: Good<br>B: Good | No action :: No action      |  | C.2<br>>40 yrs |            |
| T509 509                                                                                                                                                                                                                                                                                            |    |             |       |           |               |              |     |                       |                   |                               |                             |  |                |            |
| Common Beech<br><i>Fagus sylvatica</i>                                                                                                                                                                                                                                                              | 16 | 4           | 684   | (Eq) N    | 10            | 6            | SM  | A: 211.7<br>R: 8.2    | Good              | C: Good<br>S: Good<br>B: Good | No action :: No action      |  | B.2<br>>40 yrs |            |
| T510 510                                                                                                                                                                                                                                                                                            |    |             |       |           |               |              |     |                       |                   |                               |                             |  |                |            |
| Sessile Oak<br><i>Quercus petraea</i>                                                                                                                                                                                                                                                               | 13 | 1           | 940   | N         | 10            | 4            | M   | A: 399.8<br>R: 11.28  | Good              | C: Good<br>S: Good<br>B: Good | No action :: No action      |  | A.2<br>>40 yrs |            |
| T511 511                                                                                                                                                                                                                                                                                            |    |             |       |           |               |              |     |                       |                   |                               |                             |  |                |            |
| Common Beech<br><i>Fagus sylvatica</i>                                                                                                                                                                                                                                                              | 14 | 1           | 900   | N         | 7             | 8            | SM  | A: 366.5<br>R: 10.8   | Good              | C: Good<br>S: Good<br>B: Good | No action :: No action      |  | B.2<br>>40 yrs |            |
| T512 512                                                                                                                                                                                                                                                                                            |    |             |       |           |               |              |     |                       |                   |                               |                             |  |                |            |
| Common Beech<br><i>Fagus sylvatica</i>                                                                                                                                                                                                                                                              | 14 | 3           | 491   | (Eq) N    | 5             | 7            | SM  | A: 109<br>R: 5.89     | Good              | C: Good<br>S: Good<br>B: Good | No action :: No action      |  | C.2<br>>40 yrs |            |
| <div>Age Classifications: N Newly planted EM Early Mature Condition: C Crown<br/>Y Young M Mature S Stem<br/>SM Semi-mature OM Over Mature B Basal area</div> <div>Stems: Ø Diameter<br/>(Eq) Equivalent stem diameter using BS5837:2012 definition<br/>ERC: Estimated Remaining Contribution</div> |    |             |       |           |               |              |     |                       |                   |                               |                             |  |                |            |

| Tree and Tag No<br>Species                   |  | Hght<br>(m)  | Stems                                 |               | Crown                                 |              | Age | RP<br>A (m²)<br>R (m) | Phys<br>Condition           | Structural<br>Condition | Preliminary Recommendations   |                                                                                                                                                                  |                                       | Cat<br>ERC          |
|----------------------------------------------|--|--------------|---------------------------------------|---------------|---------------------------------------|--------------|-----|-----------------------|-----------------------------|-------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------|
|                                              |  |              | No                                    | Ø<br>(mm)     | Spread<br>(m)                         | Clear<br>(m) |     |                       |                             |                         | Survey Comment                |                                                                                                                                                                  |                                       |                     |
| T513 513                                     |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                                                                                                                  |                                       |                     |
| Common Beech<br><i>Fagus sylvatica</i>       |  | 11           | 1                                     | 900           | N                                     | 9            | 6   | SM                    | A: 366.5<br>R: 10.8         | Good                    | C: Good<br>S: Fair<br>B: Good | No action :: No action<br>Weak fork at stem break at 3m.                                                                                                         |                                       | B.2<br>>40 yrs      |
| T514 514                                     |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                                                                                                                  |                                       |                     |
| Common Hawthorn<br><i>Crataegus monogyna</i> |  | 8            | 3                                     | 520 (Eq)      | N                                     | 6            | 2   | M                     | A: 122.2<br>R: 6.23         | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                                                                                                           |                                       | C.2<br>>40 yrs      |
| T515 515                                     |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                                                                                                                  |                                       |                     |
| Sessile Oak<br><i>Quercus petraea</i>        |  | 6            | 1                                     | 340           | N                                     | 8            | 6   | SM                    | A: 52.3<br>R: 4.08          | Poor                    | C: Poor<br>S: Good<br>B: Good | Fell :: Fell to ground level<br>Suppressed; asymmetrical crown; limbs on south side torn out - probably vehicle.                                                 |                                       | U<br><10 yrs        |
| T516 516                                     |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                                                                                                                  |                                       |                     |
| Common Beech<br><i>Fagus sylvatica</i>       |  | 13           | 1                                     | 420           | N                                     | 8            | 6   | SM                    | A: 79.8<br>R: 5.03          | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                                                                                                           |                                       | C.2<br>>40 yrs      |
| T517 517                                     |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                                                                                                                  |                                       |                     |
| Sessile Oak<br><i>Quercus petraea</i>        |  | 9            | 7                                     | 688 (Eq)      | N                                     | 8            | 4   | SM                    | A: 214.1<br>R: 8.25         | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action<br>Minor deadwood in crown; bark wounds south side of trunk - probably mechanical; large failed limb east side; broken branches in crown. |                                       | C.2<br>20 to 40 yrs |
| T518 518                                     |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                                                                                                                  |                                       |                     |
| Sessile Oak<br><i>Quercus petraea</i>        |  | 7            | 1                                     | 480           | N                                     | 6            | 0.5 | SM                    | A: 104.2<br>R: 5.75         | Good                    | C: Fair<br>S: Good<br>B: Good | Fell :: Fell to facilitate development<br>Deadwood and broken branches in lower crown.                                                                           |                                       | C.2<br>>40 yrs      |
|                                              |  |              |                                       |               |                                       |              |     |                       |                             |                         |                               |                                                                                                                                                                  |                                       |                     |
| Age Classifications:                         |  | N<br>Y<br>SM | Newly planted<br>Young<br>Semi-mature | EM<br>M<br>OM | Early Mature<br>Mature<br>Over Mature | Condition:   |     | C<br>S<br>B           | Crown<br>Stem<br>Basal area | Stems:                  |                               | Ø Diameter<br>(Eq) Equivalent stem diameter using BS5837:2012 definition                                                                                         | ERC: Estimated Remaining Contribution |                     |

| Tree and Tag No<br>Species            |  | Hght<br>(m)  | Stems                                 |               | Crown                                 |                   | Age                | RP<br>A (m²)<br>R (m) | Phys<br>Condition           | Structural<br>Condition | Preliminary Recommendations   |                                                                                                                                                                                                   |                                       | Cat<br>ERC              |
|---------------------------------------|--|--------------|---------------------------------------|---------------|---------------------------------------|-------------------|--------------------|-----------------------|-----------------------------|-------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------|
|                                       |  |              | No                                    | Ø<br>(mm)     | Spread<br>(m)                         | Clear<br>(m)      |                    |                       |                             |                         | Survey Comment                |                                                                                                                                                                                                   |                                       |                         |
| T519 519                              |  |              |                                       |               |                                       |                   |                    |                       |                             |                         |                               |                                                                                                                                                                                                   |                                       |                         |
| Sessile Oak<br><i>Quercus petraea</i> |  | 10           | 1                                     | 280           | N<br>E<br>S<br>W                      | 5<br>5<br>5<br>4  | 6<br>6<br>4<br>5   | SM                    | A: 35.5<br>R: 3.36          | Good                    | C: Fair<br>S: Good<br>B: Good | No action :: No action<br><br>Minor deadwood and cavities in crown; minor broken branches lower crown - probably mechanical.                                                                      |                                       | C.2<br><br>20 to 40 yrs |
| T520 520                              |  |              |                                       |               |                                       |                   |                    |                       |                             |                         |                               |                                                                                                                                                                                                   |                                       |                         |
| Sessile Oak<br><i>Quercus petraea</i> |  | 9            | 1                                     | 800           | N<br>E<br>S<br>W                      | 5<br>5<br>5<br>5  | 3<br>6<br>3<br>5   | M                     | A: 289.6<br>R: 9.6          | Fair                    | C: Fair<br>S: Good<br>B: Good | No action :: No action<br><br>Deadwood in crown; damaged branches and bark wounds south side of crown - probably mechanical; hard standing to base of tree; lots of debris and ground compaction. |                                       | B.2<br><br>>40 yrs      |
| T521 521                              |  |              |                                       |               |                                       |                   |                    |                       |                             |                         |                               |                                                                                                                                                                                                   |                                       |                         |
| Sessile Oak<br><i>Quercus petraea</i> |  | 15           | 1                                     | 680           | N<br>E<br>S<br>W                      | 10<br>6<br>7<br>7 | 1.5<br>5<br>4<br>2 | SM                    | A: 209.2<br>R: 8.16         | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action<br><br>Minor deadwood in crown; ivy in crown; track constructed 1m to east - possible root damage.                                                                         |                                       | B.2<br><br>>40 yrs      |
| T522 522                              |  |              |                                       |               |                                       |                   |                    |                       |                             |                         |                               |                                                                                                                                                                                                   |                                       |                         |
| Sessile Oak<br><i>Quercus petraea</i> |  | 14           | 1                                     | 300           | N<br>E<br>S<br>W                      | 8<br>3<br>4<br>6  | 4<br>6<br>7<br>8   | SM                    | A: 40.7<br>R: 3.59          | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                                                                                                                                            |                                       | C.2<br><br>>40 yrs      |
| T523 523                              |  |              |                                       |               |                                       |                   |                    |                       |                             |                         |                               |                                                                                                                                                                                                   |                                       |                         |
| Sessile Oak<br><i>Quercus petraea</i> |  | 15           | 1                                     | 740           | N<br>E<br>S<br>W                      | 10<br>7<br>6<br>6 | 6<br>6<br>9<br>6   | SM                    | A: 247.8<br>R: 8.88         | Good                    | C: Good<br>S: Ivy<br>B: Good  | No action :: No action<br><br>Tree not accessible - further inspections recommended once site cleared.                                                                                            |                                       | B.2<br><br>>40 yrs      |
| T524 524                              |  |              |                                       |               |                                       |                   |                    |                       |                             |                         |                               |                                                                                                                                                                                                   |                                       |                         |
| Sessile Oak<br><i>Quercus petraea</i> |  | 14           | 2                                     | 608 (Eq)      | N<br>E<br>S<br>W                      | 7<br>6<br>6<br>6  | 6<br>3<br>9<br>8   | SM                    | A: 167.4<br>R: 7.29         | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                                                                                                                                            |                                       | C.2<br><br>>40 yrs      |
| Age Classifications:                  |  | N<br>Y<br>SM | Newly planted<br>Young<br>Semi-mature | EM<br>M<br>OM | Early Mature<br>Mature<br>Over Mature | Condition:        |                    | C<br>S<br>B           | Crown<br>Stem<br>Basal area | Stems:                  |                               | Ø Diameter<br>(Eq) Equivalent stem diameter using BS5837:2012 definition                                                                                                                          | ERC: Estimated Remaining Contribution |                         |

| Tree and Tag No<br>Species              |  | Hght<br>(m)  | Stems                                 |               | Crown                                 |                  | Age | RP<br>A (m²)<br>R (m) | Phys<br>Condition           | Structural<br>Condition | Preliminary Recommendations   |                                                                                                                                                                                                    |                                                                   | Cat<br>ERC                               |
|-----------------------------------------|--|--------------|---------------------------------------|---------------|---------------------------------------|------------------|-----|-----------------------|-----------------------------|-------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------|
|                                         |  |              | No                                    | Ø<br>(mm)     | Spread<br>(m)                         | Clear<br>(m)     |     |                       |                             |                         | Survey Comment                |                                                                                                                                                                                                    |                                                                   |                                          |
| T525 525                                |  |              |                                       |               |                                       |                  |     |                       |                             |                         |                               |                                                                                                                                                                                                    |                                                                   |                                          |
| Goat Willow<br><i>Salix caprea</i>      |  | 9            | 1                                     | 240           | N<br>E<br>S<br>W                      | 3<br>3<br>3<br>2 | 4   | SM                    | A: 26.1<br>R: 2.88          | Good                    | C: Good<br>S: Good<br>B: Good | No action :: No action                                                                                                                                                                             |                                                                   | C.2<br>>40 yrs                           |
| T526 526                                |  |              |                                       |               |                                       |                  |     |                       |                             |                         |                               |                                                                                                                                                                                                    |                                                                   |                                          |
| Common Ash<br><i>Fraxinus excelsior</i> |  | 14           | 1                                     | 660           | N<br>E<br>S<br>W                      | 9<br>7<br>2<br>6 | 3   | SM                    | A: 197.1<br>R: 7.92         | Poor                    | C: Poor<br>S: Ivy<br>B: Good  | Re-inspect :: See Comment<br><br>Probable Stage 2 ash dieback (25%-49% of crown dead) -<br>reinspect between June and September.                                                                   |                                                                   | C                                        |
| T527 527                                |  |              |                                       |               |                                       |                  |     |                       |                             |                         |                               | Estimated Measurements                                                                                                                                                                             |                                                                   |                                          |
| Goat Willow<br><i>Salix caprea</i>      |  | 8            | 1                                     | 680           | N<br>E<br>S<br>W                      | 6<br>4<br>6<br>7 | 1.5 | M                     | A: 209.2<br>R: 8.16         | Good                    | C: Good<br>S: Poor<br>B: Good | Fell :: Fell to ground level<br><br>Stem split; broken branches in crown.                                                                                                                          |                                                                   | U                                        |
| T528 528                                |  |              |                                       |               |                                       |                  |     |                       |                             |                         |                               |                                                                                                                                                                                                    |                                                                   |                                          |
| Common Ash<br><i>Fraxinus excelsior</i> |  | 14           | 1                                     | 440           | N<br>E<br>S<br>W                      | 6<br>4<br>3<br>4 | 4   | SM                    | A: 87.6<br>R: 5.28          | Poor                    | C: Poor<br>S: Good<br>B: Good | Fell :: Fell to ground level<br><br>Stage 2 ash dieback (25%-49% of crown dead).                                                                                                                   |                                                                   | U                                        |
| T529 529                                |  |              |                                       |               |                                       |                  |     |                       |                             |                         |                               |                                                                                                                                                                                                    |                                                                   |                                          |
| Sessile Oak<br><i>Quercus petraea</i>   |  | 10           | 1                                     | 540           | N<br>E<br>S<br>W                      | 5<br>4<br>2<br>5 | 2   | SM                    | A: 131.9<br>R: 6.47         | Good                    | C: Fair<br>S: Ivy<br>B: Good  | Remove :: Faulted branch/limbs<br><br>Hazard beam in lower crown north side - remove, ivy on stem<br>and in crown; minor deadwood in crown south side; large<br>pruning wounds south side of stem. |                                                                   | C.2<br>>40 yrs                           |
| T530 530                                |  |              |                                       |               |                                       |                  |     |                       |                             |                         |                               |                                                                                                                                                                                                    |                                                                   |                                          |
| Common Ash<br><i>Fraxinus excelsior</i> |  | 12           | 4                                     | 387 (Eq)      | N<br>E<br>S<br>W                      | 5<br>4<br>3<br>4 | 4   | SM                    | A: 67.7<br>R: 4.64          | Poor                    | C: Poor<br>S: Ivy<br>B: Good  | Fell :: Fell to ground level<br><br>Stage 2 ash dieback (25%-49% of crown dead).                                                                                                                   |                                                                   | U                                        |
|                                         |  |              |                                       |               |                                       |                  |     |                       |                             |                         |                               |                                                                                                                                                                                                    |                                                                   |                                          |
| Age Classifications:                    |  | N<br>Y<br>SM | Newly planted<br>Young<br>Semi-mature | EM<br>M<br>OM | Early Mature<br>Mature<br>Over Mature | Condition:       |     | C<br>S<br>B           | Crown<br>Stem<br>Basal area | Stems:                  |                               | Ø<br>(Eq)                                                                                                                                                                                          | Diameter<br>Equivalent stem diameter using BS5837:2012 definition | ERC:<br>Estimated Remaining Contribution |

| Tree and Tag No<br>Species              |  | Hght<br>(m)  | Stems                                 |               | Crown                                 |                  | Age              | RP<br>A (m²)<br>R (m)      | Phys<br>Condition           | Structural<br>Condition       | Preliminary Recommendations                                                                                              |                                                                          |                                       | Cat<br>ERC |
|-----------------------------------------|--|--------------|---------------------------------------|---------------|---------------------------------------|------------------|------------------|----------------------------|-----------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------|------------|
|                                         |  |              | No                                    | Ø<br>(mm)     | Spread<br>(m)                         | Clear<br>(m)     |                  |                            |                             |                               | Survey Comment                                                                                                           |                                                                          |                                       |            |
| T531 531                                |  |              |                                       |               |                                       |                  |                  |                            |                             |                               |                                                                                                                          |                                                                          |                                       |            |
| Common Ash<br><i>Fraxinus excelsior</i> |  | 13           | 2                                     | 410 (Eq)      | N<br>E<br>S<br>W                      | 6<br>5<br>5<br>5 | 7<br>5<br>5<br>5 | SM<br>A: 76.2<br>R: 4.92   | Poor                        | C: Poor<br>S: Ivy<br>B: Good  | Fell :: Fell to ground level<br>Stage 2 ash dieback (25%-49% of crown dead).                                             |                                                                          | U                                     |            |
| T532 532                                |  |              |                                       |               |                                       |                  |                  |                            |                             |                               |                                                                                                                          |                                                                          |                                       |            |
| Sessile Oak<br><i>Quercus petraea</i>   |  | 7            | 3                                     | 417 (Eq)      | N<br>E<br>S<br>W                      | 6<br>4<br>3<br>1 | 5<br>4<br>4<br>4 | SM<br>A: 78.5<br>R: 4.99   | Good                        | C: Good<br>S: Good<br>B: Good | No action :: No action                                                                                                   |                                                                          | C.2<br>>40 yrs                        |            |
| T533 533                                |  |              |                                       |               |                                       |                  |                  |                            |                             |                               |                                                                                                                          |                                                                          |                                       |            |
| Sessile Oak<br><i>Quercus petraea</i>   |  | 12           | 1                                     | 740           | N<br>E<br>S<br>W                      | 8<br>7<br>5<br>6 | 4<br>6<br>6<br>6 | SM<br>A: 247.8<br>R: 8.88  | Good                        | C: Good<br>S: Poor<br>B: Good | Fell :: Fell to ground level<br>Cavity from base to stem break south side.                                               |                                                                          | C.2<br>10 to 20 yrs                   |            |
| T534 534                                |  |              |                                       |               |                                       |                  |                  |                            |                             |                               |                                                                                                                          |                                                                          |                                       |            |
| Common Ash<br><i>Fraxinus excelsior</i> |  | 9            | 2                                     | 632 (Eq)      | N<br>E<br>S<br>W                      | 6<br>3<br>1<br>2 |                  | SM<br>A: 181<br>R: 7.59    | Dead                        | C: Poor<br>S: Ivy<br>B: Good  | Fell :: Fell to ground level                                                                                             |                                                                          | U                                     |            |
| T536 536                                |  |              |                                       |               |                                       |                  |                  |                            |                             |                               |                                                                                                                          |                                                                          |                                       |            |
| Sessile Oak<br><i>Quercus petraea</i>   |  | 10           | 1                                     | 700           | N<br>E<br>S<br>W                      | 7<br>5<br>3<br>6 | 5<br>6<br>5<br>5 | SM<br>A: 221.7<br>R: 8.4   | Fair                        | C: Fair<br>S: Ivy<br>B: Good  | No action :: No action<br>Minor deadwood in crown; ivy in crown and on stem.                                             |                                                                          | C.2<br>20 to 40 yrs                   |            |
| T537 537                                |  |              |                                       |               |                                       |                  |                  |                            |                             |                               |                                                                                                                          |                                                                          |                                       |            |
| Common Ash<br><i>Fraxinus excelsior</i> |  | 18           | 4                                     | 954 (Eq)      | N<br>E<br>S<br>W                      | 8<br>8<br>8<br>8 | 7<br>8<br>7<br>6 | SM<br>A: 411.7<br>R: 11.44 | Fair                        | C: Fair<br>S: Ivy<br>B: Good  | Re-inspect :: See Comment<br>Probable Stage 1 ash dieback (1%-24% of crown dead) - reinspect between June and September. |                                                                          | C                                     |            |
| Age Classifications:                    |  | N<br>Y<br>SM | Newly planted<br>Young<br>Semi-mature | EM<br>M<br>OM | Early Mature<br>Mature<br>Over Mature | Condition:       |                  | C<br>S<br>B                | Crown<br>Stem<br>Basal area | Stems:                        |                                                                                                                          | Ø Diameter<br>(Eq) Equivalent stem diameter using BS5837:2012 definition | ERC: Estimated Remaining Contribution |            |

| Tree and Tag No<br>Species                                                                                                                                                                                                                                                                          |  | Hght<br>(m) | Stems |           | Crown            |                  | Age              | RP<br>A (m²)<br>R (m)     | Phys<br>Condition | Structural<br>Condition       | Preliminary Recommendations                                                                  |  |                              | Cat<br>ERC |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|-------|-----------|------------------|------------------|------------------|---------------------------|-------------------|-------------------------------|----------------------------------------------------------------------------------------------|--|------------------------------|------------|
|                                                                                                                                                                                                                                                                                                     |  |             | No    | Ø<br>(mm) | Spread<br>(m)    | Clear<br>(m)     |                  |                           |                   |                               | Survey Comment                                                                               |  |                              |            |
| T538 538                                                                                                                                                                                                                                                                                            |  |             |       |           |                  |                  |                  |                           |                   |                               |                                                                                              |  |                              |            |
| Sessile Oak<br><i>Quercus petraea</i>                                                                                                                                                                                                                                                               |  | 11          | 1     | 410       | N<br>E<br>S<br>W | 6<br>4<br>6<br>5 | 4<br>6<br>5<br>5 | SM<br>A: 76.1<br>R: 4.92  | Good              | C: Good<br>S: Good<br>B: Good | No action :: No action<br>-----<br>Minor deadwood in crown.                                  |  | C.2<br>-----<br>>40 yrs      |            |
| T539 539                                                                                                                                                                                                                                                                                            |  |             |       |           |                  |                  |                  |                           |                   |                               |                                                                                              |  |                              |            |
| Sessile Oak<br><i>Quercus petraea</i>                                                                                                                                                                                                                                                               |  | 12          | 1     | 460       | N<br>E<br>S<br>W | 7<br>4<br>6<br>4 | 4<br>7<br>7<br>8 | SM<br>A: 95.7<br>R: 5.51  | Good              | C: Good<br>S: Fair<br>B: Good | No action :: No action<br>-----<br>Minor deadwood in crown; minor cavity at base south side. |  | C.2<br>-----<br>>40 yrs      |            |
| T540 540                                                                                                                                                                                                                                                                                            |  |             |       |           |                  |                  |                  |                           |                   |                               |                                                                                              |  |                              |            |
| Sessile Oak<br><i>Quercus petraea</i>                                                                                                                                                                                                                                                               |  | 12          | 1     | 420       | N<br>E<br>S<br>W | 6<br>5<br>5<br>5 | 6<br>5<br>5<br>6 | SM<br>A: 79.8<br>R: 5.03  | Good              | C: Good<br>S: Good<br>B: Good | No action :: No action<br>-----<br>Minor deadwood in crown.                                  |  | C.2<br>-----<br>>40 yrs      |            |
| T541 541                                                                                                                                                                                                                                                                                            |  |             |       |           |                  |                  |                  |                           |                   |                               |                                                                                              |  |                              |            |
| Sessile Oak<br><i>Quercus petraea</i>                                                                                                                                                                                                                                                               |  | 14          | 1     | 440       | N<br>E<br>S<br>W | 6<br>6<br>4<br>6 | 3<br>8<br>9<br>3 | SM<br>A: 87.6<br>R: 5.28  | Good              | C: Good<br>S: Good<br>B: Good | No action :: No action<br>-----<br>Asymmetrical crown.                                       |  | C.2<br>-----<br>>40 yrs      |            |
| T542 542                                                                                                                                                                                                                                                                                            |  |             |       |           |                  |                  |                  |                           |                   |                               |                                                                                              |  |                              |            |
| Sessile Oak<br><i>Quercus petraea</i>                                                                                                                                                                                                                                                               |  | 13          | 1     | 520       | N<br>E<br>S<br>W | 8<br>8<br>6<br>3 | 3<br>5<br>4<br>4 | SM<br>A: 122.3<br>R: 6.23 | Good              | C: Good<br>S: Good<br>B: Good | No action :: No action<br>-----                                                              |  | B.2<br>-----<br>>40 yrs      |            |
| T543 543                                                                                                                                                                                                                                                                                            |  |             |       |           |                  |                  |                  |                           |                   |                               |                                                                                              |  |                              |            |
| Sessile Oak<br><i>Quercus petraea</i>                                                                                                                                                                                                                                                               |  | 9           | 1     | 540       | N<br>E<br>S<br>W | 6<br>7<br>7<br>8 | 6<br>7<br>4<br>6 | SM<br>A: 131.9<br>R: 6.47 | Good              | C: Good<br>S: Fair<br>B: Good | No action :: No action<br>-----<br>Minor deadwood; large wound south side of stem.           |  | C.2<br>-----<br>10 to 20 yrs |            |
| <div>Age Classifications: N Newly planted EM Early Mature Condition: C Crown<br/>Y Young M Mature S Stem<br/>SM Semi-mature OM Over Mature B Basal area</div> <div>Stems: Ø Diameter<br/>(Eq) Equivalent stem diameter using BS5837:2012 definition<br/>ERC: Estimated Remaining Contribution</div> |  |             |       |           |                  |                  |                  |                           |                   |                               |                                                                                              |  |                              |            |

Report selection criteria.

Projects.

Gwelfor Trimsaran

Date Range.

Any Date

Work types.

----> Coppice :: To 1.5m stumps

----> Fell :: Fell to facilitate development

----> Fell :: Fell to ground level

----> No action :: No action

----> Re-inspect :: See Comment

----> Remove :: Faulted branch/limbs

----> Remove :: Major dead wood

----> Remove :: Suspended or broken branches

Latest Survey.

All surveys for the selected trees.

---> Last survey for each selected tree.

Work Completed.

---> Work Completed

---> Work Not Completed

Number of trees in selected Project(s)82

Number of trees in Report selection82

|                      |    |               |    |              |            |   |            |        |      |                                                       |
|----------------------|----|---------------|----|--------------|------------|---|------------|--------|------|-------------------------------------------------------|
| Age Classifications: | N  | Newly planted | EM | Early Mature | Condition: | C | Crown      | Stems: | Ø    | Diameter                                              |
|                      | Y  | Young         | M  | Mature       |            | S | Stem       |        | (Eq) | Equivalent stem diameter using BS5837:2012 definition |
|                      | SM | Semi-mature   | OM | Over Mature  |            | B | Basal area |        | ERC: | Estimated Remaining Contribution                      |

## **II. Site Plans**

# RTAC

6 Courtyard Flats, Stable Yard, Stackpole, SA71 5DE  
07823332279 info@rtactrees.co.uk

## Gwelfor Topo Tree Constraints Plan

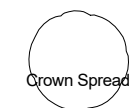
SCALE :  
1 : 1500 @ A4

DATE :  
12/03/2023



MAP FILENAME :  
[Filename]

Map data shown may contain Ordnance Survey © products supplied by  
Pear Technology Services Ltd; Email: info@peartechology.co.uk  
© Crown Copyright and database rights from date shown above  
Ordnance Survey © licence number 100023148



Crown Spread



Root Protection Area



Category 'A'



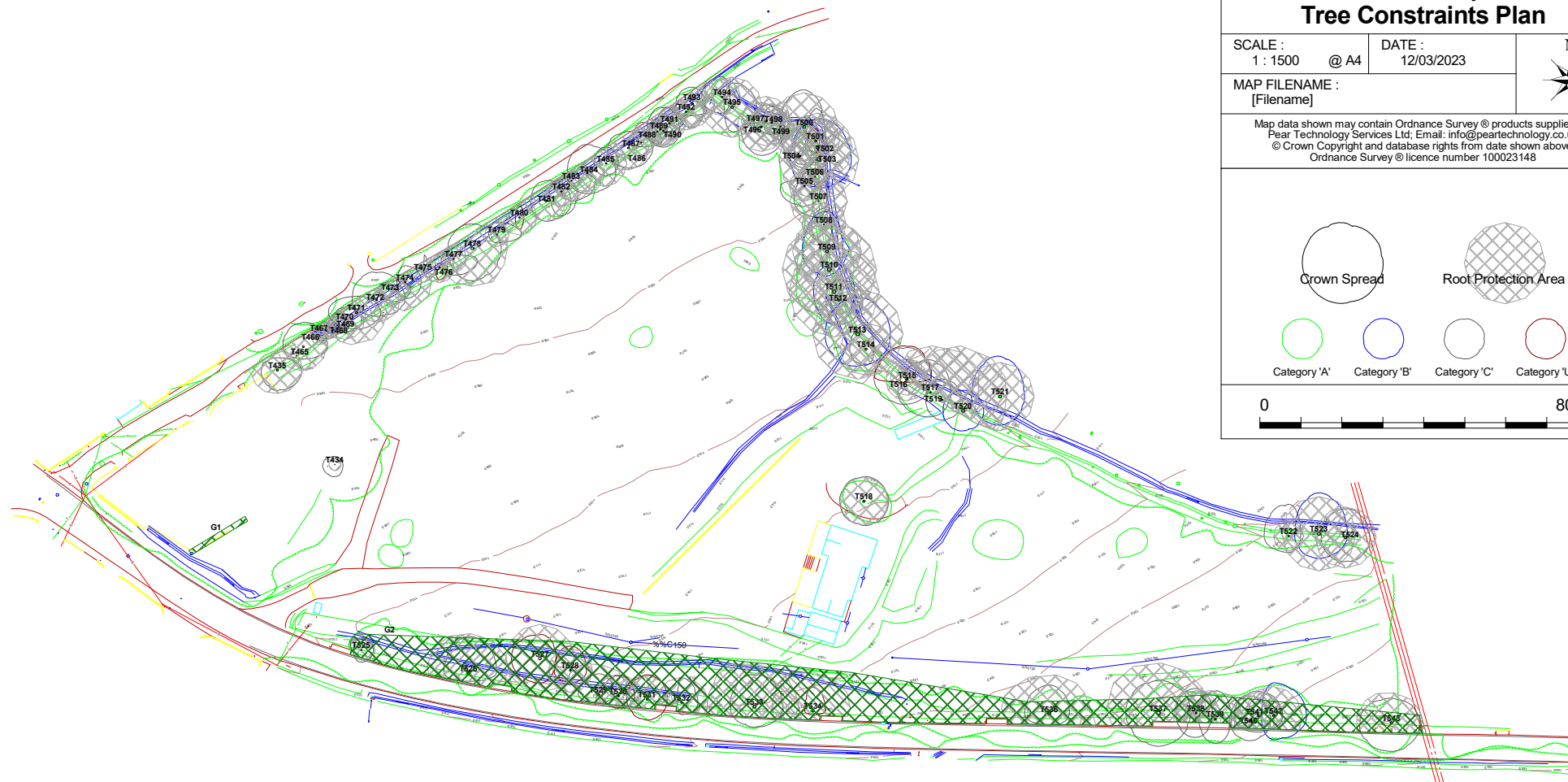
Category 'B'



Category 'C'



Category 'U'



# RTAC

6 Courtyard Flats, Stable Yard, Stackpole, SA71 5DE  
07823332279 info@rtactrees.co.uk

## Gwelfor Trimsaran Proposed Site Layout October 2024 Tree Constraints Plan

SCALE :  
1 : 1500 @ A4

DATE :  
04/10/2024



MAP FILENAME :  
[Filename]

Map data shown may contain Ordnance Survey® products supplied by  
Pear Technology Services Ltd; Email: info@peartechnology.co.uk  
© Crown Copyright and database rights from data shown above  
Ordnance Survey® licence number 100023148



Crown Spread



Root Protection Area



Category 'A'



Category 'B'



Category 'C'



Category 'U'

0 80m



# RTAC

6 Courtyard Flats, Stable Yard, Stackpole, SA71 5DE  
07823332279 info@rtactrees.co.uk

## Gwelfor Trimsaran Proposed Site Layout October 2024 Tree Shade Plan

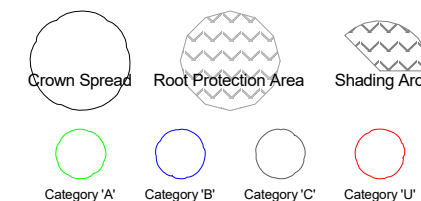
SCALE :  
1 : 1500 @ A4

DATE :  
04/10/2024



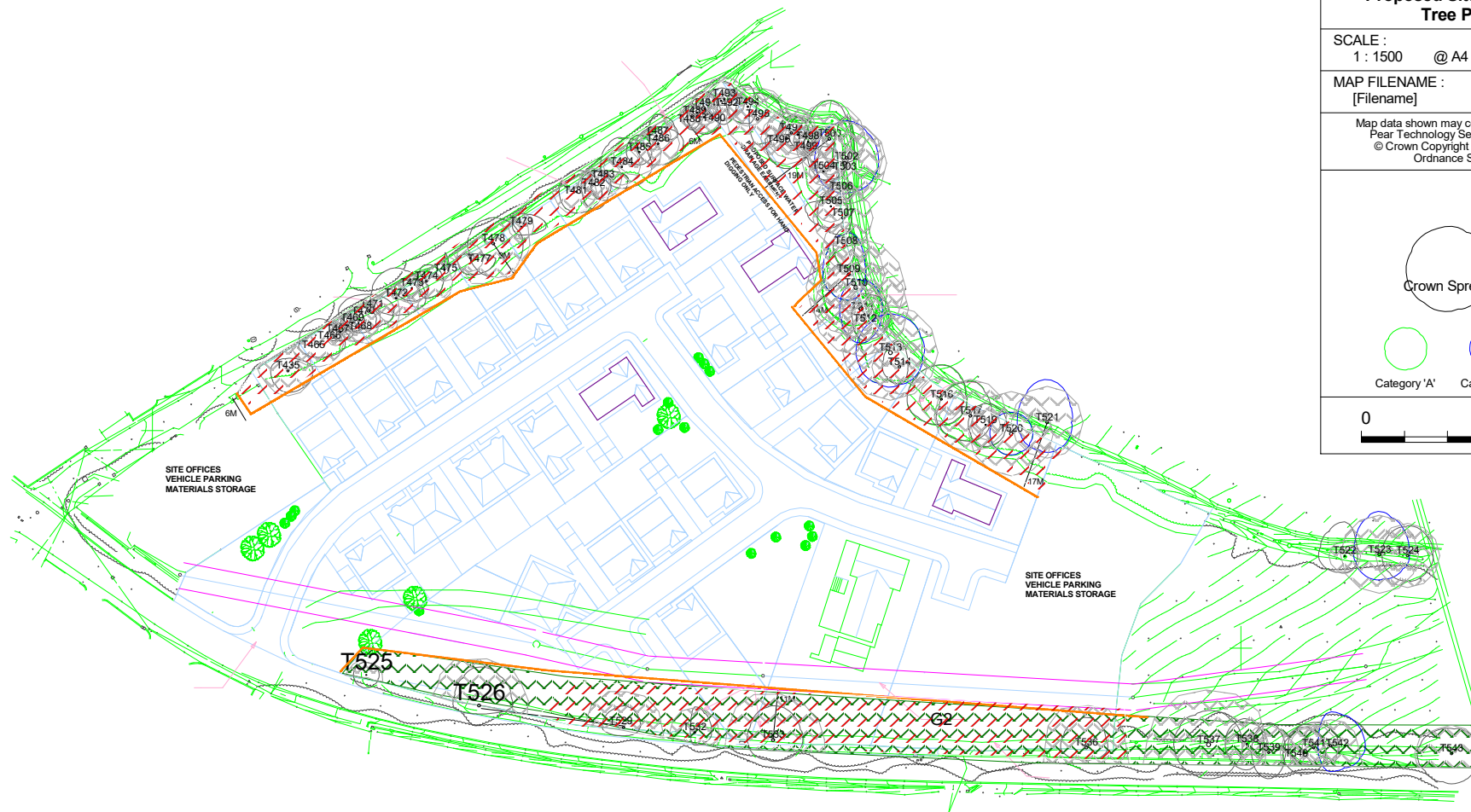
MAP FILENAME :  
[Filename]

Map data shown may contain Ordnance Survey® products supplied by  
Pear Technology Services Ltd; Email: info@peartechnology.co.uk  
© Crown Copyright and database rights from date shown above  
Ordnance Survey® licence number 100023148



CONSTRUCTION EXCLUSION ZONE

HERAS FENCE MEASUREMENTS TAKEN FROM SITE BOUNDARIES OR BOLES OF RETAINED TREES



RTAC

6 Courtyard Flats, Stable Yard, Stackpole, SA71 5DE  
07823332279 info@rtactrees.co.uk

Gwelfor Trimsaran  
Proposed Site Layout October 2024  
Tree Protection Plan

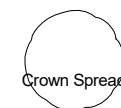
SCALE :  
1 : 1500 @ A4

DATE :  
04/10/2024



MAP FILENAME :  
[Filename]

Map data shown may contain Ordnance Survey® products supplied by  
Pear Technology Services Ltd; Email: info@peartechnology.co.uk  
© Crown Copyright and database rights from date shown above  
Ordnance Survey® licence number 100023148



Crown Spread



Root Protection Area



Category 'A'



Category 'B'



Category 'C'



Category 'U'



### III. Photographs



Site looking west



Site looking north



T519 and T520

#### **IV. Qualifications**

**Qualifications:**

AA Technicians Certificate 2009  
BSc. Heritage Conservation 2ii  
Professional Tree Inspection 2024  
Electrical Arboriculture Units 1 and 2a  
NVQ Level 2 Environmental Conservation  
NPTC CS 30, 31, 39, climb trees and perform aerial rescue

**CPD:**

Bats and Arboriculture: A Practitioner's guide  
BS 5837:2012. Tree Surveying and Categorisation  
Subsidence 1 day workshop  
Assessment of Tree Forks: Assessment of Junctions for Risk Management  
The Hollow Tree – Arboriculture  
Introduction to Soils

## V. Bibliography

British Standard 5837:2012 Trees in Relation to Design, Demolition and Construction – Recommendations; British Standards Institution.

The Law of Trees, Forests and Hedgerows (2002) Mynors; Sweet and Maxwell, London.

Diagnosis of Ill-health in Trees (1994) Strouts and Winter; TSO.

British Standard 3998:2010 Recommendations for Tree Work UK; British Standards Institution.

The body language of trees (1994) Mattheck & Breloer; TSO.

Principles of tree hazard assessment and management (1999) Lonsdale; Forestry Commission.

Complete field guide to the Trees of Britain & Europe (2004) Johnson & More; Collins.

Assessment of Tree Forks: Assessment of Junctions for Risk Management (2016) Slater in association with Myerscough College; The Arboricultural Association.

Arboricultural Practice Note 12: Through the Trees to Development (2007) Patch and Holding; Arboricultural Advisory and Information Service.

Modern Arboriculture (2003) Shigo; Sherwin Dodge Printers, Littleton, New Hampshire.

Planning Policy Wales Technical Advice Note 5: Nature Conservation and Planning (September 2009) Welsh Government.