



**Tree Survey and Arboricultural Impact Assessment  
In Accordance with BS 5837:2012**

Project No 12344	AOC Resins Ltd, Piperell Way, Haverhill, CB9 8PH		
Client:		C3 Project Services Ltd	
Prepared by:		Matthew Plane-Da'Silva	
Date of Report:	23/04/2026	Revision:	Original

Hayden's Arboricultural Consultants Ltd, Units 3-5 Moseley's Farm Business Centre  
Fornham All Saints, Bury St Edmunds, Suffolk IP28 6JY

Telephone: 01284 765391 Email: [info@treesurveys.co.uk](mailto:info@treesurveys.co.uk)  
[www.treesurveys.co.uk](http://www.treesurveys.co.uk)

# Summary

In this circumstance it is intended to construct a firewater lagoon with associated services routes. The provided red line boundary can be seen on drawing no 12344-D-AIA, this outlines the area provided to undertake the arboricultural assessment. The arboricultural related implications of the proposal are summarised in Tables 1 and 2 below, and detailed where necessary within the report.

All trees and landscape features that are to remain as part of the development should suffer no structural damage provided that the findings within this report are complied with in full.

**Table 1 - Construction and ongoing constraints from an arboricultural perspective (subject to necessary tree surgery being completed):**

Potential Design/ Build Constraints	Arboricultural Impact?	Comments/Solution
Construction Access	No	Please see item no.4.1.
Demolition	No	Please see item no. 4.2.
New Structures	No	Please see item no. 4.3.
New Hard Surfaces	No	Please see item no. 4.4.
Compound	No	Please see item no. 4.5.
Services	No	Please see item no. 4.6.
Phasing	No	Please see item no. 4.7.

**Given the above, there are no overt or overwhelming arboricultural constraints that can be reasonably cited to preclude the proposed construction.**



# Contents

- 1.0 Introduction**
- 2.0 The Site**
- 3.0 Tree Survey**
- 4.0 Arboricultural Impact Assessment  
(Additional or Specific Comments)**
- 5.0 Limitations & Qualifications**
- 6.0 References**
- 7.0 Appendices**



# 1.0 Introduction

## 1.1 Purpose

1.1.1 As part of the United Kingdom planning process, applicants are required to supply local planning authorities with a detailed evaluation of how their proposals will impact trees. The nationally recognised procedure for doing this is laid out in *BS5837:2012 "Trees in relation to design, demolition and construction – Recommendations"*. In summary, this must include the following information as a minimum: -

A Tree Survey and Tree Constraints Plan.

An Arboricultural Impact Assessment of sufficient detail to confirm the feasibility of the design from a tree perspective.

A scaled Tree Retention and Removal drawing showing retained trees and their root protection area on the proposed layout.

1.1.2 This report has been prepared to ensure that this information is provided to the Local Planning Authority in a straightforward and clear way so that they can make an informed decision about how (if at all) trees are affected.

1.1.3 When planning permission is granted it is typically the case that the Local Planning Authority will require specific conditions to be fulfilled. This means that a subsequent detailed Arboricultural Method Statement and Tree Protection Plan may be required. This will be detailed on the Local Planning Authority's decision notice.

## 1.2 Scope

1.2.1 In accordance with the above, C3 Project Services Ltd have commissioned Hayden's Arboricultural Consultants to prepare a Tree Survey and Constraints Plan, Arboricultural Impact Assessment and scaled Tree Retention and Removal drawing for the existing trees at AOC Resins Ltd, Piperell Way, Haverhill, CB9 8PH.

1.2.2 Unless stated within the survey, all trees were inspected from ground level with no climbing inspections undertaken. As such, the findings are of a preliminary nature. It is not always possible to access every tree and therefore some measurements may have to be estimated.

1.2.3 The trees were inspected on the basis of "*Visual Tree Assessment*" (Mattheck & Breloer - 1994) and *National Tree Safety Group (2024). Common sense risk management of trees: Guidance on trees and public safety in the UK for owners, managers and advisers. 2nd edn.,. Edinburgh: Forest Research.*

1.2.4 Whilst this is an arboricultural report, comments relating to non arboricultural matters are given, such as built structures and soil data. Any opinion thus expressed should be viewed as provisional and confirmation from an appropriately qualified professional sought. Such points are clearly identified within the body of the report.



### 1.3 Documentation

- 1.3.1 The following documentation was provided prior to the commencement of the production of this report;

Email of instruction from Neil Croft dated 06/03/2026.  
Definition of site boundary, description of requirements/deadlines.  
Topographical survey.  
Proposed site layout.

## 2.0 The Site

### 2.1 Overview

- 2.1.1 The site is AOC Resins Ltd, Piperell Way, Haverhill, CB9 8PH.

### 2.2 Soils

- 2.2.1 The soils type commonly associated with this site are lime rich loams and clays with impeded drainage. They are of high fertility and support base-rich pastures, and classic 'chalky boulder clay' ancient woodland type habitats. This soil type constitutes approximately 5.3% the total English land mass.

- 2.2.2 The data given was obtained from a desktop study which provides indications of likely soil types. By definition, this information is not comprehensive and therefore any decisions taken with regards the management, usage or construction on site should be based on a detailed soil analysis.

- 2.2.3 Further to item 2.2.2, this report provides no information on soil plasticity. It may be necessary for practitioners in other disciplines (e.g. engineers considering foundation design) to obtain this data as required.

### 2.3 Statutory Tree Protection

- 2.3.1 Information on any Local Planning Authority or Forestry Commission controlled statutory tree protection (Tree Preservation Orders, Conservation Areas and Felling Licenses etc) is recorded on the attached drawing no. 12344-D-AIA.

- 2.3.2 Further details regarding any existing Statutory Tree Protection is recorded at Appendix B.

## 3.0 Tree Survey

- 3.1 The tree survey was carried out on 25/03/2026 in accordance with *BS5837:2012 "Trees in relation to design, demolition and construction – Recommendations"*, the relevant qualitative and quantitative tree data was recorded in order to assess the condition of the existing trees and their constraints upon the proposed development.



- 3.2 A topographical survey was provided which showed the position of the trees on site. It should be noted however that topographical surveys are not always comprehensive and sometimes it is considered appropriate to record details of trees and landscape features omitted from or beyond the scope of the plan. If this circumstance occurs, the location of the individual tree or landscape feature is estimated. The position of each tree is shown on the attached drawing no. 12344-D-AIA.
- 3.3 In order to provide a systematic, consistent and transparent evaluation of the trees included within this survey, they have been assessed and categorised in accordance with the method detailed in item 4.3 of *BS5837:2012 "Trees in Relation to Design, Demolition and Construction - Recommendations"*. For further information, please see the attached Explanatory Notes.
- 3.4 The detailed assessment of each tree and its work requirements with priorities are listed in the attached Schedule of Trees.
- 3.5 In accordance with item 4.2.4 (c) of BS5837:2012, the items inspected and detailed within this report have been selected for inclusion due to the likely influence of any proposed development on the trees, rather than strictly adhering to the curtilage of the site. However, it must be understood that there may be trees beyond the site and not included in this survey which may exert an influence on the development. Where works for cultural, health and safety, quality of life, or development purposes have been recommended on trees outside the ownership of the site, these can only progress with the agreement of the owner, except where it involves portions of the trees overhanging the boundary.

## **4.0 Arboricultural Impact Assessment (Additional or Specific Comments)**

### **4.1 Construction Access**

- 4.1.1 The construction access will be via the existing hard surfacing that is currently on site therefore no impact to the retained trees is expected.

### **4.2 Demolition**

- 4.2.1 No demolition is proposed within the root protection areas of trees that are to be retained.

### **4.3 New Structures**

- 4.3.1 No structures are proposed in the root protection areas of trees that are to be retained.

### **4.4 New Hard Surfaces**

- 4.4.1 No hard surfacing affects the rooting protection areas of trees that are to be retained.



#### 4.5. **Compound**

4.5.1 The site provides adequate internal space to locate a construction compound outside the RPA of any trees and landscape features that are to be retained.

#### 4.6. **Services**

4.6.1 No services routes are shown to be located in the tree protection areas that have been surveyed on site.

#### 4.7. **Phasing**

4.7.1 Given the limited impact to the trees within the surveyed area phasing is not expected to be an issue for the tree that are to be retained on site.



## 5.0 Limitations & Qualifications

Tree inspection reports are subject to the following limitations and qualifications.

### General exclusions

Unless specifically mentioned, the report will only be concerned with above ground inspections. No below ground inspections will be carried out without the prior confirmation from the client that such works should be undertaken.

The validity, accuracy and findings of this report will be directly related to the accuracy of the information made available prior to and during the inspection process. No checking of independent third-party data will be undertaken. Hayden's Arboricultural Consultants Limited will not be responsible for the recommendations within this report where essential data are not made available or are inaccurate.

This report will remain valid for one year from the date of inspection subject to the recommendations specified within being adhered to. It must also be appreciated that recommendations proposed within this report may be superseded by extreme weather, or any other unreasonably foreseeable events.

Tree surgery should be completed as detailed in the Schedule of Trees. Where this has been identified for reasons other than to permit development, this work should be completed within the advised timescales irrespective of any development proposals.

Tree surgery works may also be proposed as part of this Survey to mitigate any identified problems that may be caused by trees in close proximity to the proposed development. To this end, should these recommendations be overruled, this Survey stands as the opinion of Hayden's Arboricultural Consultants Limited, and therefore any damage or injury caused by trees recommended by this practice for felling or tree surgery works, to which the proposed schedule of works has been altered or the tree has been requested to be retained by the Local Planning Authority, cannot be the responsibility of this practice.

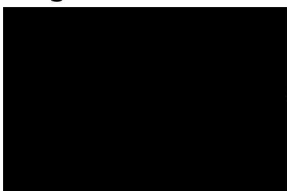
Moreover, if any additional alterations to the property or soil levels are carried out and/or further tree works undertaken other than specified within the report, it will become invalid and a new tree inspection required.

It will be appreciated, and deemed to be accepted by the client and their insurers, that the formulation of the recommendations for the management of trees will be guided by the following: -

1. The need to avoid reasonably foreseeable damage.
2. The arboricultural considerations - tree safety, good arboricultural practice (tree work) and aesthetics.

The client and their insurers are deemed to have accepted the limitation placed on the recommendations by the sources quoted in the attached report. Where sources are limited by time constraints or the client, this may lead to an incomplete quantification of the risk.

### **Signed:**



**April 2026**

**For and on Behalf of Hayden's Arboricultural Consultants Limited**



## 6.0 References

British Standards Institute. (2010). *Recommendations for Tree Work BS3998:2010* BSI, London.

British Standards Institute. (2012). *Trees in Relation to Design, Demolition and Construction – Recommendations BS5837:2012* BSI, London.

Ministry of Housing, Communities & Local Government. (2014). *Tree Preservation Orders and trees in conservation areas*. London: Ministry of Housing, Communities & Local Government.

Mattheck & Breloer, H. (1994). *Research for Amenity Trees No.4: The Body Language of Trees*, HMSO, London.

NHBC Standards (2007) *Chapter 4.2 'Building Near Trees'*. National House-Building Council.

NJUG 4 Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees. Issued 16 November 2007.

Forestry Commission (2007). *Tree Felling – Getting Permission*. Country Services Division, Forestry Commission, Edinburgh.

Patch, D. Holding, B. (2006) *Arboricultural Practice Note 12 (APN12), Through the Trees to Development*. Arboricultural Advisory and Information Service (AAIS).

Lonsdale, D. (1999). *Research for Amenity Trees No 7: Principles of Tree Hazard Assessment and Management*, HMSO, London.

National Tree Safety Group (2024). *Common sense risk management of trees: Guidance on trees and public safety in the UK for owners, managers and advisers*. 2nd edn. Edinburgh: Forest Research.



## 7.0 Appendices

Appendix	<b>A</b>	Species List & Tree Problems
Appendix	<b>B</b>	Statutory Tree Protection Advice & Tree Preservation Order Enquiry/Response
Appendix	<b>C</b>	Schedule of Trees
Appendix	<b>D</b>	Explanatory Notes
Appendix	<b>E</b>	Advisory Information & Sample Specifications
	1.	BS 5837:2012 Figure 1 - Flow Chart – Design and Construction & Tree Care
	2.	European Protected Species and Woodland Operations Checklist (v.4)
Appendix	<b>F</b>	Drawing No 12344-D-AIA.




## Appendix A - Species List & Tree Problems

### Species List:


Cherry	<i>Prunus sp</i>
Field Maple	<i>Acer campestre</i>
Sycamore	<i>Acer pseudoplatanus</i>

### Tree Problems:

This gives a brief description of the problems identified in the attached Tree Survey.

<b>Name: Deadwood</b>	
<b>Symptoms/damage type and cause:</b>	This relates to dead branches in the crown of the tree. In the majority of cases, this is caused by the natural ageing process of the tree or shading due to its close proximity to neighbouring trees. However, in some situations, it may be related to fungal, bacterial or viral infection.
<b>Consequence:</b>	Depending upon the location and mass of dead wood removal of the affected tissue may be necessary to prevent harm to persons or property as the wood will become unstable as it decays and in some circumstances is likely to fall from the tree with little or no warning.
<b>Control:</b>	Detailed monitoring should be undertaken on those trees showing signs of excessive deadwood production to identify the underlying cause.
<b>Species affected:</b>	Most tree species.
<b>Images:</b>	



<b>Name:</b> <i>Hedera helix</i> (Ivy)	
<b>Symptoms/damage type and cause:</b>	Ivy may grow to varying degrees on all areas of a tree from the base to the upper crown. It is possible that in doing so it will out-compete the host tree for available light thereby suppressing the host.
<b>Consequence:</b>	This is generally only harmful to the tree on already unhealthy specimens which may be constricted by large ivy stems around the trunk or may have their top growth suppressed by a mass of flowering shoots in the crown. Ivy can also mask potentially dangerous faults on a tree.
<b>Control:</b>	Ivy should only be removed if absolutely necessary because it provides abundant cover to wildlife and then by severing twice close to the ground and removing a length of stem thereby causing the gradual dying away of the aerial parts of the plant providing extended benefit to wildlife whilst relieving the pressure on the tree.
<b>Species affected:</b>	Most trees can be affected.
<b>Images:</b>	



## **Appendix B - Statutory Tree Protection Advice & Tree Preservation Order Enquiry/Response**

### **Statutory Tree Protection Advice**

Hayden's Arboricultural Consultants Limited have been informed that at the *date of the tree inspection* the trees concerned were not located within a Conservation Area or the subject of a Tree Preservation Order. As such, no written permission would be required from the Local Planning Authority prior to commencing works to trees. It should be noted however, that the Local Planning Authority have the power to serve Tree Preservation Orders very rapidly, and therefore it is incumbent upon owners, managers or any persons wishing to undertake work to any trees to contact the Local Planning Authority prior to commencing works to ensure that the situation has not changed.

This information was sourced using the Local Planning Authority's Online Mapping System (as instructed by them) and to our best knowledge was current and accurate at the time the information was accessed. We would advise it prudent that before any tree work commences, this is checked directly with the Local Planning Authority to confirm that their online mapping system is definitive.



# Tree Preservation Order / Conservation Area Online Mapping Extract

The screenshot displays an online mapping interface with a sidebar on the left and a main map area on the right.

**Left Sidebar (Planning Constraints):**

- + Planning Applications 0/7
- Planning Constraints 2/18
  - Conservation areas (indicated by two green dots)
  - Housing settlement boundary
  - Article 4 Direction
  - Tree Preservation Orders (indicated by a green leaf icon)
  - Listed buildings
  - Scheduled ancient monuments
  - Sites of special scientific interest

**Map Area:**

- Shows a residential area with roads: **Piperell Way**, **Helions Bumpstead Road**, **Bumpstead Road**, and **Head Road**.
- Green shaded regions indicate **Conservation areas** and **Tree Preservation Orders**.
- Other features include **Thistledown**, **Mayville**, and **Balancing Pond**.
- Distance markers: 75.8m, 70.6m, 76.2m, and 72.6m.
- Map controls: A purple menu icon, a zoom-in (+) button, and a zoom-out (-) button are visible on the left side of the map.
- Map data: **(c) Ordnance Survey** is noted at the bottom left of the map area.
- Scale bar: 20m / 100ft.
- Grid reference: 567279, 244529.
- Map style controls (top right): **OS Roads**, **OS Light**, **Aerial 2020**, and a **Reset** button.

**Footer:** POWERED BY iShare

# **Appendix C**

Schedule of Trees

**SCHEDULE OF TREES (AIA)** AOC Resins Ltd, Piperell Way, Haverhill,

Surveyed By: Matthew Plane-Da'Silva Date: 25/03/2026  
 Managed By: Matthew Plane-Da'Silva

TreeNo	Species	DBH	Height		Visual	Crown Spread	Problems / Comments	BS Cat	Work Required (TS)	Priority (TS)	Work Required (AIA)	Priority (AIA)
		Min Dist	Crown Base	Lowest Branch	Age	Water Demand						
		RPA (m²)	Aspect	Aspect	SJLE	Ground Cover						
<b>G001</b>	Field Maple, Cherry Spp	200	7		Low	N4, E4, S4, W4	Area of mixed species. A large portion of the trees are located behind a mesh fence, given this the dimensions have been estimated. The trees are heavily colonised by Ivy. Dead off-site trees are also present within the feature.	C2	No work required.	4		
		2.4	1.8		SM	Moderate						
<b>Yes</b>		18.1			10+ years	Dense undergrowth						
<b>G002</b>	Sycamore, Cherry Spp, Field Maple	190	10		Low	N4, E4, S4, W4	Area of mixed species. The trees are located behind a knee high railing, main stems of the closest trees have fused into the railing which has caused structural damage to the main stems. As the trees mature this is going to present a weakness likely leading to failure. The feature is deemed to be of low value and has been left unmanaged. This has resulted in a heavy presence of Ivy which extends from ground level into the main structure of the trees. Debris is also present with in the area and was advise not to enter therefore dimensions have been estimated.	C2	No work required.	4		
		2.28	1.6		SM	Moderate						
<b>Yes</b>		16.3			10+ years	Dense undergrowth						
<b>G003</b>	Cherry Spp, Field Maple	100	6		Low	N2.5, E2.5, S2.5, W2.5	Small section of unmanaged trees which run alongside the existing building. Access to the full length of this feature is restricted given the presence of brambles and narrow strip of land between the building and feature. It consists of a mixed species.	C2	No work required.	4		
		1.2	1		Y	Moderate						
<b>Yes</b>		4.5			10+ years	Dense undergrowth						
<b>H001</b>	Cherry Spp	80	3		Low	N1, E1, S1, W1	Unmanaged sporadic hedgerow of low value. Only small diameter trees with no significant value. Dimensions estimated due to restricted access along the boundary of the site.	C2	No work required.	4		
		0.96	0		SM	Moderate						
<b>Yes</b>		2.9			10+ years	Light undergrowth						

TreeNo	Species	DBH	Height		Visual	Crown Spread	Problems / Comments	BS Cat	Work Required (TS)	Priority (TS)	Work Required (AIA)	Priority (AIA)
		Min Dist	Crown Base	Lowest Branch	Age	Water Demand						
		RPA (m <sup>2</sup> )	Aspect	Aspect	SULE	Ground Cover						
<b>T001</b>	Field Maple	300	12		Moderate	N4, E4, S4, W4	Unable to access the tree therefore dimensions have been estimated. Appears to be in a good physiological condition however this can not be confirmed. Location unknown and plotted using GPS.	B1	No work required.	4		
		3.6	3		SM	Moderate						
<b>No</b>		40.7			20+ years	Off-site/no access						
<b>T002</b>	Sycamore	250	9		Low	N3, E3, S3, W3	Off-site tree. Unable to access as it is off-site therefore dimensions have been estimated. Heavily colonised by Ivy.	C1	No work required.	4		
		3	2		SM	Moderate						
<b>No</b>		28.3			20+ years	Off-site/no access						
<b>T003</b>	Cherry Sp	160	7		Low	N2, E2, S2, W2	Low value tree located on the edge of the boundary line.	C1	No work required.	4		
		1.92	1.6		SM	Moderate						
<b>Yes</b>		11.6			20+ years	Light undergrowth						
<b>T004</b>	Sycamore	130	7		Low	N2, E2, S2, W2	Low value tree located on the edge of the boundary line.	C1	No work required.	4		
		1.56	0		Y	Moderate						
<b>Yes</b>		7.6			10+ years	Light undergrowth						

## **Appendix D**

### Explanatory Notes

# Explanatory Notes

## Categories

<b>No</b>	Identifies the tree on the drawing.
<b>Species</b>	Common names are given to aid understanding for the wider audience.
<b>BS 5837 Main Category</b>	<p>Using this assessment (BWS 5837:2012, table 1), trees can be divided into one of the following simplified categories, and are differentiated by cross-hatching and by colour on the attached drawing.</p> <p><b>Category A</b> - Those of high quality with an estimated remaining life expectancy of at least 40 years;</p> <p><b>Category B</b> - Those of moderate quality with an estimated life expectancy of at least 40 years;</p> <p><b>Category C</b> - Those of low quality with an estimated remaining of at least 10 years, or young trees with a stem diameter below 150 mm;</p> <p><b>Category U</b> - Those trees in such condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years.</p>
<b>BS 5837 Sub Category</b>	<p>Table 1 of BS 5837:2012 also requires a sub category to be applied to the A, B, C, and U assessments. This allows for a further understanding of the determining classification as follows:</p> <p><b>Sub Category 1</b> - Mainly arboricultural qualities;</p> <p><b>Sub Category 2</b> - Mainly landscape qualities;</p> <p><b>Sub Category 3</b> - Mainly cultural values, including conservation.</p> <p>Please note that a specimen or landscape feature may fulfil the requirements of more than one Sub Category.</p>
<b>DBH (mm)</b>	Diameter of main stem in millimetres at 1.5 metres from ground level. Where the tree is a multi-stem, the diameter is calculated in accordance with item 4.6.1 of BS 5837:2012.
<b>Height</b>	Recorded in metres, measured from the base of the tree.
<b>Crown Base</b>	Recorded in metres, the distance from ground and aspect of the lowest branch material.
<b>Lowest Branch</b>	Recorded in metres, the distance from ground and aspect of the emergence point of the lowest significant branch.

<b>Age</b>	<p>Recorded as one of seven categories:</p> <p><b>Y</b> Young. Recently planted or establishing tree that could be transplanted without specialist equipment, i.e. less than 150 mm DBH.</p> <p><b>S/M</b> Semi-mature. An established tree, but one which has not reached its prospective ultimate height.</p> <p><b>E/M</b> Early-mature. A tree that is reaching its ultimate potential height, whose growth rate is slowing down but if healthy, will still increase in stem diameter and crown spread.</p> <p><b>M</b> Mature. A mature specimen with limited potential for any significant increase in size, even if healthy.</p> <p><b>O/M</b> Over-mature. A senescent or moribund specimen with a limited safe useful life expectancy. Possibly also containing sufficient structural defects with attendant safety and/or duty of care implications.</p> <p><b>V</b> Veteran. A tree considered a 'survivor' having endured injury, disease and/or decay, developing important habitat features such as decay, trunk hollowing, deadwood, fungal fruiting bodies (plus others) not solely as a consequence of time. Veteran trees are afforded additional protection within the planning system where they may be influenced by change.</p> <p><b>A</b> Ancient. A tree that has the features of a Veteran tree but has also surpassed the typical lifespan for its species. These trees may differ in appearance from a Veteran tree, such as having a thick/wide trunk and a small crown. Ancient trees are usually considered to have exceptional cultural significance. Ancient trees are afforded additional protection within the planning system where they may be influenced by change.</p>
<b>Safe Useful Life Expectancy (SULE)</b>	<p>Relates to the prospective life expectancy of the tree and is given as 4 categories:</p> <p>1 = 40 years+;</p> <p>2 = 20 years+;</p> <p>3 = 10 years+;</p> <p>4 = less than 10 years.</p>
<b>Crown Spread</b>	<p>Indicates the radius of the crown from the base of the tree in each of the northern, eastern, southern and western aspects.</p>
<b>Minimum Distance</b>	<p>This is a distance equal to 12 times the diameter of the tree measured at 1.5 metres above ground level for single stemmed trees and 12 times the average diameter of the tree measured at 1.5 metres above ground level tree for multi stemmed specimens. (BS 5837:2012, section 4.6).</p>
<b>RPA</b>	<p>This is the Root Protection Area, measured in square metres and defined in BS5837:2012 as "a layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure is treated as a priority". The RPA is shown on the drawing.. Ideally this is an area around the tree that must be kept clear of construction, level changes of construction operations. Some methods of construction can be carried out within the RPA of a retained tree but only if approved by the Local Planning Authority's tree officer.</p>
<b>Water Demand</b>	<p>This gives the water demand of the species of tree when mature, as given in the NHBC Standards Chapter 4.2 "Building Near Trees".</p>

<b>Visual Amenity</b>	Concerns the planning and landscape contribution to the development site made by the tree, hedge or tree group, in terms of its amenity value and prominence on the skyline along with functional criteria such as the screening value, shelter provision and wildlife significance. The usual definitions are as follows:
Low	An inconsequential landscape feature.
Moderate	Of some note within the immediate vicinity, but not significant in the wider context.
High	Item of high visual importance.
<b>Problems/ Comments</b>	May include general comments about growth characteristic, how it is affected by other trees and any previous surgery work; also, specific problems such as deadwood, pests, diseases, broken limbs, etc.
<b>Works Required (TS)</b>	Identifies the necessary tree work to mitigate anticipated problems and deal with existing problems identified in the "Problems/comments" category.
<b>Work Required (AIA)</b>	Identifies the tree work specifically necessary to allow a proposed development to proceed.
<b>Priority</b>	This gives a priority rating to each tree allowing the client to prioritise necessary tree works identified within the Tree Survey. <ul style="list-style-type: none"> <li>1 Urgent – works required immediately;</li> <li>2 Works required within 6 months;</li> <li>3 Works required within 1 year;</li> <li>4 Re-inspect in 12 months,</li> <li>0 Remedial works as part of implementation of planning consent.</li> </ul>

## BS 5837:2012 Terms and Definitions

<b>Access Facilitation Pruning</b>	One-off tree pruning operation, the nature and effects of which are without significant adverse impact on tree physiology or amenity value, which is directly necessary to provide access for operations on site.
<b>Arboricultural Method Statement</b>	Methodology for the implementation of any aspect of development that is within the root protection area, or has the potential to result in loss of or damage to a tree to be retained.
<b>Arboriculturist</b>	Person who has, through relevant education, training and experience, gained expertise in the field of trees in relation to construction.
<b>Competent Person</b>	Person who has training and experience relevant to the matter being addressed and an understanding of the requirements of the particular task being approached. NOTE - a competent person is expected to be able to advise on the best means by which the recommendations of this British Standard may be implemented.
<b>Construction</b>	Site-based operations with the potential to affect existing trees.
<b>Construction Exclusion Zone</b>	Area based on the root protection area from which access is prohibited for the duration of a project.
<b>Root Protection Area (RPA)</b>	Layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure is treated as a priority.
<b>Service</b>	Any above or below ground structure or apparatus required for utility provision. <b>NOTE</b> - examples include drainage, gas supplies, ground source heat pumps, CCTV and satellite communications.
<b>Stem</b>	Principal above ground structural component(s) of a tree that supports its branches.
<b>Structure</b>	Manufactured object, such as a building, carriageway, path, wall, service run, and built or excavated earthwork.
<b>Tree Protection Plan</b>	Scale drawing, informed by descriptive text where necessary, based upon the finalized proposals, showing trees for retention and illustrating the tree and landscape protection measures.

## **Veteran/Ancient Tree Buffer**

A diagrammatic representation of the additional protection measures afforded to Veteran and Ancient Trees by the imposing of a geographical 'buffer' space between the Veteran/Ancient Trees and any potential activity such as construction, that may affect the trees. The buffer zones are calculated as follows:

*For ancient woodlands, the proposal should have a buffer zone of at least 15 metres from the boundary of the woodland to avoid root damage (known as the root protection area). Where assessment shows other impacts are likely to extend beyond this distance, the proposal is likely to need a larger buffer zone. For example, the effect of air pollution from development that results in a significant increase in traffic.*

*For ancient or veteran trees (including those on the woodland boundary), the buffer zone should be at least 15 times larger than the diameter of the tree. The buffer zone should be 5 metres from the edge of the tree's canopy if that area is larger than 15 times the tree's diameter. This will create a minimum root protection area.*

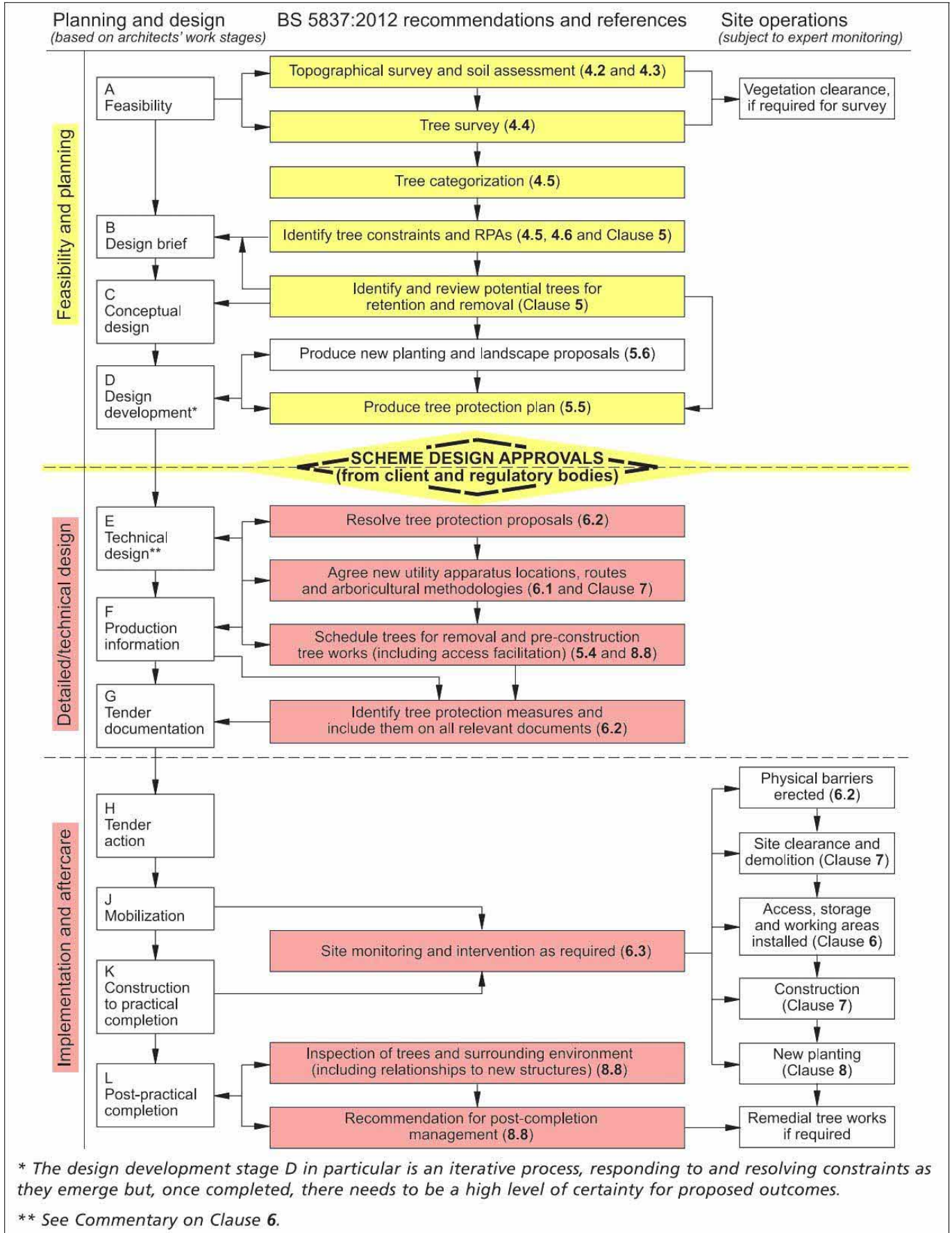
*Where assessment shows other impacts are likely to extend beyond this distance, the proposal is likely to need a larger buffer zone.*

Source: Natural England; The Forestry Commission; The UK Government Dept. for The Environment.

## **Appendix E**

### Advisory Information & Sample Specifications

1. BS 5837:2012 Figure 1 - Flow Chart – Design and Construction & Tree Care



## European Protected Species and woodland operations. (V4)

Complete all sections of the Checklist

### Checklist

<b>1</b>	<p>Are you within, or close to, the known mapped range of any of the protected species OTHER THAN BATS which are potentially everywhere? Tick any that apply. See distribution maps in the Good Practice Guidance for each species -</p> <p><input type="checkbox"/> Dormice  <input type="checkbox"/> Otters  <input type="checkbox"/> Great crested newts  <input type="checkbox"/> Sand lizards  <input type="checkbox"/> Smooth snakes</p>	YES
		NO

<b>2</b>	<p>Does your wood contain any of the following habitats? Tick any that apply.</p> <p><input type="checkbox"/> Old trees with holes and crevices which might be used bats  <input type="checkbox"/> Species rich scrub/coppice, early growth stage plantations and forest interfaces  <input type="checkbox"/> Rivers on which otters might be found  <input type="checkbox"/> Ponds which might be occupied by great crested newts  <input type="checkbox"/> Open areas on heathy soils</p>	YES
		NO

<b>3</b>	<p>Have any of the protected species been recorded in this wood or on adjoining sites? Tick any that apply. Indicate which sources of information you have checked:</p> <p><input type="checkbox"/> National Biodiversity Network (<a href="http://www.nbn.org.uk">www.nbn.org.uk</a>)  <input type="checkbox"/> Local Biological Records Centre  <input type="checkbox"/> Local Wildlife Trust  <input type="checkbox"/> Other  <i>Specify Other:</i></p>	YES
		NO

<b>4</b>	<p>Have your inspections or any expert surveys found any of the following signs or evidence? Tick any that apply.</p> <p><input type="checkbox"/> Signs (e.g. otter spraint, nuts gnawed by dormice, leaves folded by newts)  <input type="checkbox"/> Sightings (or echo-location)  <input type="checkbox"/> Potential breeding or roosting sites (e.g. veteran trees, old trees with crevices, riverside hollow trees, ponds, timber stacks, large fallen deadwood)  <input type="checkbox"/> Confirmed breeding or roosting sites (i.e. evidence of sites actually being used)  <i>Details:</i></p>	YES
		NO

### CHECK POINT

If you have answered NO to ALL of the above then only bats need to be considered in your operations.

If you have answered YES to any of the above then the species concerned must be considered as well as bats.

<b>5</b>	<p>Do the operations comply with Good Practice for bats and any other species found (or likely to be found in your wood) or can the operations be modified to do so? <i>Details: Use reverse of form to expand as required:</i></p>	YES
		NO

<b>6</b>	<p><u>Whether or not a licence is required...</u> Has the information been communicated to operators (including the location of breeding sites and sensitive areas)? Tick any that apply.</p> <p><input type="checkbox"/> Included in documentation (e.g. contract, letter of instruction, site assessment or other management plan)  <input type="checkbox"/> Shown to operators and/or their supervisor  <input type="checkbox"/> Marked with paint or hazard tape  <input type="checkbox"/> Shown on the site plan  <i>Other means:</i></p>	YES
		NO

<b>7</b>	<p>Have arrangements for supervision been made to ensure Good Practice guidance is complied with during the operations? <i>Details:</i></p>	YES
		NO

### Details

Name of Wood:										
Grid Reference: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> </table>										
Area: (ha) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> </table>										
Date of Assessment: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> </table>										
Name of Assessor:										

### Notes

A licence is not required but continue to sections 6 and 7 below
You will need to obtain a licence BEFORE carrying out the work (see EPS Licence Application Forms and Notes)

You may commit an offence if you do not tell your operators about the protected species in your wood.
---

You may commit an offence if you do not take steps to ensure that your operators comply with the Good Practice guidance.
--

## **Appendix F**

Haydens Drawing

**Arboricultural Impact Assessments**  
**Arboricultural Method Statements**  
**Tree Constraints Plans**  
**Arboricultural Feasibility Studies**  
**Shade Analysis**  
**Picus Tomography**  
**Arboricultural Consultancy for Local Planning Authority**  
**Quantified Tree Risk Assessment**  
**Health & Safety Audits for Tree Stocks**  
**Tree Stock Survey and Management**  
**Mortgage and Insurance Reports**  
**Subsidence Reports**  
**Woodland Management Plans**  
**Project Management**  
**Ecological Surveys**



Telephone  
01284 765391  
Email  
[info@treesurveys.co.uk](mailto:info@treesurveys.co.uk)  
Website  
[www.treesurveys.co.uk](http://www.treesurveys.co.uk)

5 Moseley's Farm  
Business Centre  
Fornham All Saints  
Bury St Edmunds  
Suffolk  
IP28 6JY