

Arboricultural Report



Relating to:

7 Hope Fountain, Camberley GU15 1JF

Tree Survey	✓
Arboricultural Impact Assessment	✓
Arboricultural Method Statement	✓

All to BS5837:2012 – Trees in relation to design, demolition and construction - Recommendations

Produced For: Glenn Brophy
Date: 12th February 2021

Ref: APA/AP/2021/028

Prepared By:

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Contents

Section

Introduction

1

- Overview 1.1
- Key Issues for Implementation 1.2
- Contact Details 1.3
- Key Terms and Abbreviations 1.4
- The Proposal/Relevant Planning History 1.5
- Brief and Purpose 1.6
- Scope 1.7
- Documents Supplied and Used 1.8
- Site Details 1.9

Tree Survey

2

- Survey Method 2.1
- Tree Details 2.2
- Legal Protection Status of Trees 2.3

Arboricultural Impact Assessment

3

- Overview of Arboricultural Impact 3.1
- Tree works 3.2
- Incursions Within RPAs 3.3
- Light and Proximity Issues 3.4
- Mitigation 3.5
- Conclusion 3.6

Arboricultural Method Statement

4

- Introduction 4.1
- Pre-Commencement Meeting 4.2
- Sequencing and Inspection/Supervision 4.3
- General Site Precautions 4.4
- Carrying out of Tree Works 4.5
- Tree Protective Fencing and Ground Protection 4.6
- Site Access and Hard Surfacing 4.7
- Demolition 4.8
- Underground Services 4.9
- Foundations and Construction 4.10
- Fencing and Landscaping 4.11
- Amendments 4.12

Appendices

Appendix 1 – Tree Survey Schedule to BS5837:2012

Appendix 2 – Tree Protection Plan - Scale 1:250 at A3

Appendix 3 – BS5837 Categorisation System

BS 5837:2012



Trees in relation to design, demolition and construction – Recommendations

- ✓ BS5837: 2012 compliant report, supplied electronically as pdf document

This report is for the exclusive use of the client and those involved in the submission and approval of the planning application to which the report relates and the implementation of any consented works. It may not be sold, lent, hired out or divulged to any third party not directly involved in the subject matter without the express consent of APArboriculture

Introduction

1.1 Overview

- The proposal is to erect a detached Oak framed gazebo/garden room as shown on the Tree Protection Plan at Appendix 2
- A planning application is being submitted to Surrey Heath Borough Council for these works
- 4 trees have been surveyed
- No trees are to be removed
- It will not be necessary to prune any trees to facilitate the proposed works
- The proposed detached gazebo/garden room is within the RPAs of 2 trees (Beech trees T1 and T2)
- A low invasive foundation design (either a reinforced concrete raft or a piled foundation) is to be used as detailed in the AMS
- There are no other incursions within the RPAs of retained trees
- The retained trees are to be protected during the development works in accordance with the BS
- A pre-commencement meeting is to be convened on site prior to any development related activity commencing

1.2 Key Issues for Implementation

If the proposed development works are implemented, these are the key issues that the project manager/builder will need to be aware of:

- ***A pre-commencement meeting needs to be convened on site prior to any demolition or construction related activity starting (Section 4.2)***
- ***The tree protective fencing and ground protection need to be in place prior to any demolition or construction related activity starting (specifications given in Section 4.6)***
- ***There is a requirement for specialist methods to be used as detailed in the Arboricultural Method Statement (Section 4.10)***
- ***Some of the works need to be carried out under the direct supervision of a suitably qualified and experienced arboricultural consultant (Section 4.3)***

1.3 Contact Details

Contact	Name	Company/LPA	Tel. / E-mail address	Sent report
Client	Glenn Brophy	-	-	✓
Arboricultural Consultant	Andrew Pinchin	APArboriculture	01932 450104 aparboriculture@gmail.com	
LPA Tree Officer	Paul Watts	Surrey Heath Borough Council	paul.watts@surreyheath.gov.uk	

1.4 Key Terms and Abbreviations

Arboricultural Impact Assessment - <i>An assessment of arboricultural impact</i>	AIA
Arboricultural Method Statement - <i>Contains the tree protection information</i>	AMS
British Standard 5837 2012: Trees in Relation to Design, Demolition and Construction – Recommendations – the relevant British Standard	The BS
Root Protection Area - <i>The volume of soil a tree needs to stay healthy</i>	RPA
Local Planning Authority - <i>The Council</i>	LPA
Tree Preservation Order - <i>A legal document that is used by the LPA to protect trees</i>	TPO

1.5 The Proposal/Relevant Planning History

The proposal is to erect a detached Oak framed gazebo/garden room as shown on the Tree Protection Plan at Appendix 2.

A planning application is being submitted to Surrey Heath Borough Council in this regard.

1.6 Brief and Purpose

This report has been commissioned by Glenn Brophy to;

- Survey the trees in the vicinity of the proposed works in accordance with the BS.
- Assess the arboricultural impact of the proposed project.
- Present an effective tree protection strategy for the duration of the development works.
- Provide the necessary arboricultural information for a planning application to be validated and determined by Surrey Heath Borough Council.

1.7 Scope

The trees in the vicinity of the proposed works have been surveyed in accordance with the BS. Trees with a stem diameter over 75mm have been included.

The report is designed to fulfil the recommended criteria for the provision of arboricultural information in relation to the validation of planning applications (ref. Department for Communities and Local Government Circular 02/2008 and the associated guidance document entitled 'Validation of Planning Applications'.)

In addition to providing the necessary arboricultural information to enable a planning application to be validated and determined, the report is intended to be used as a working document for site personnel to inform and guide the tree protection process throughout the development works.

A full hazard assessment of the trees (including the assessment of decay or defects and their implications), has not been undertaken as this is beyond the scope of this report.

Detailed ecological considerations are also beyond the scope of this report.

1.8 Documents Supplied/Used

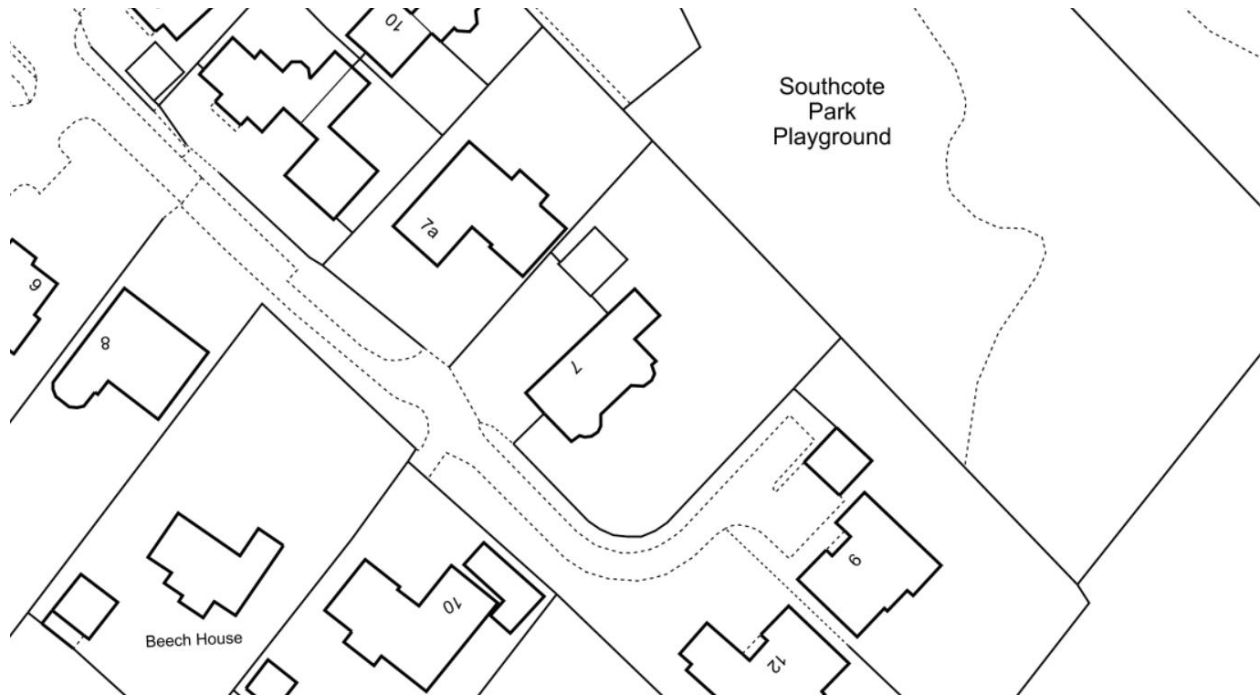
Document	Obtained From	Format/Ref
Existing and proposed plans	Glenn Brophy	Pdf

1.9 Site Details

The site in question is within the administrative jurisdiction of Surrey Heath Borough Council. It lies in Hope Fountain in Camberley.

In terms of levels, the site is essentially level with no inclines of significance from an arboricultural perspective.

Site Location Plan



The Online Soilscapes Viewer provided by the National Soil Resources Institute indicates that the underlying soil type is a naturally wet, very acid, sandy and loamy soil. This soil will be less vulnerable to compaction than soils with clay content.

2 Tree Survey

2.1 Survey Method

The trees were surveyed on 11th February 2021.

Locations of the trees were plotted with a laser measuring device using triangulation and trilateration techniques.

The trees were inspected from ground level using widely accepted Visual Tree Assessment techniques. No climbing inspections were undertaken. No samples of soil, tree tissue or suspected pests/pathogens were taken.

Heights of the trees were estimated by eye. Crown spreads at each of the four cardinal points were measured using a laser measuring device. The diameters of the trees were measured at a height of 1.5m above ground level (using a diameter tape) as per Annex C of The BS.

Photographs were taken on site using a digital camera.

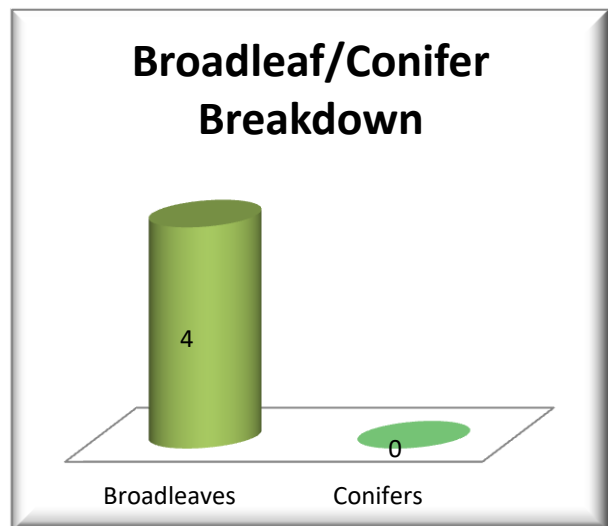
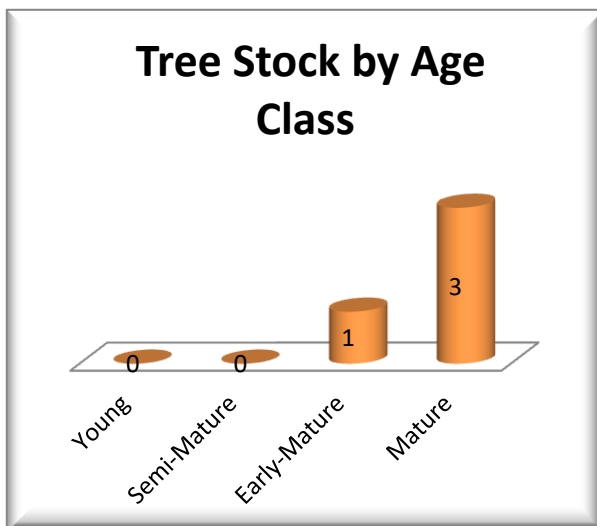
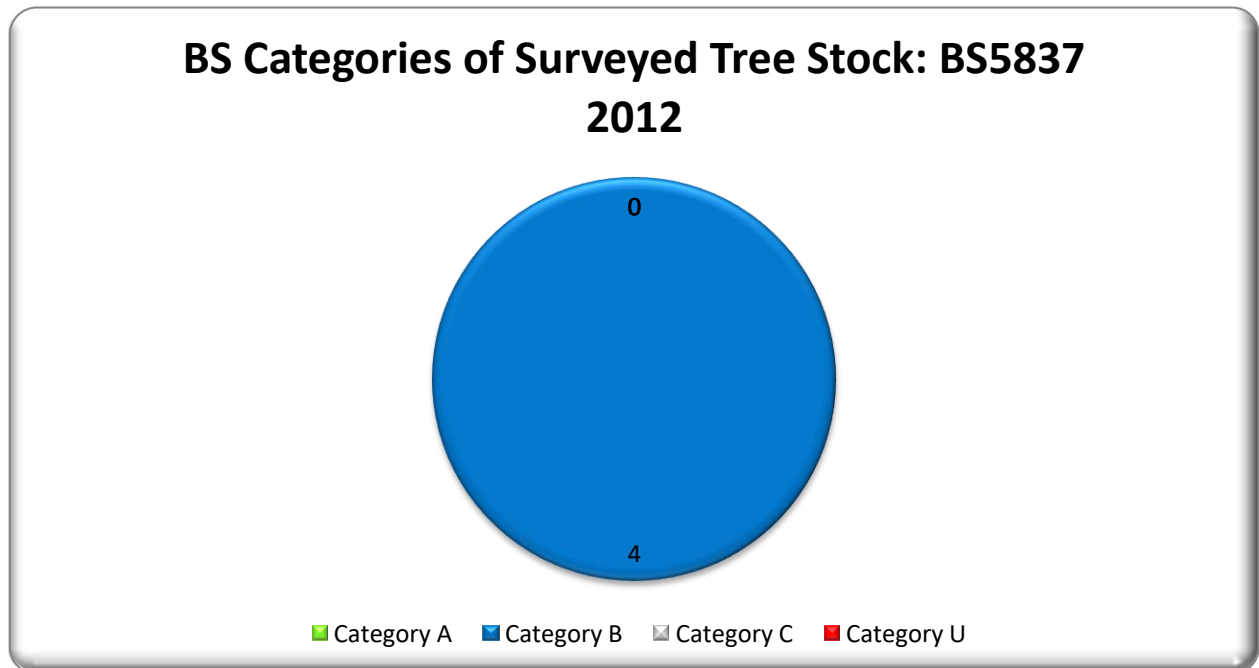
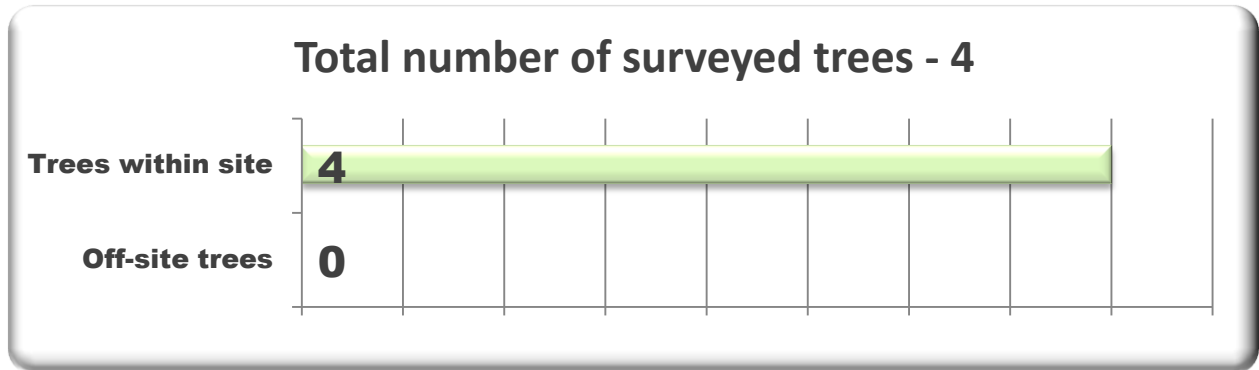
2.2 Tree Details

Full details of the surveyed trees and proposed works are given in the Tree Survey Schedule (Appendix 1). The locations of the trees are shown on the Tree Protection Plan (Appendix 2). The trees have been surveyed in accordance with the BS categorisation system, which can be summarised as follows:

- **Category A** – trees of high quality and value with a life expectancy of more than 40 years
- **Category B** – trees of moderate quality and value, with a life expectancy of more than 20 years
- **Category C** – trees of low quality and value, with a life expectancy of more than 10 years
- **Category U** – trees for removal, with a life expectancy of less than 10 years

- See Appendix 3 for more details on the BS5837 Categorisation System

An overview of the surveyed tree stock is as follows:



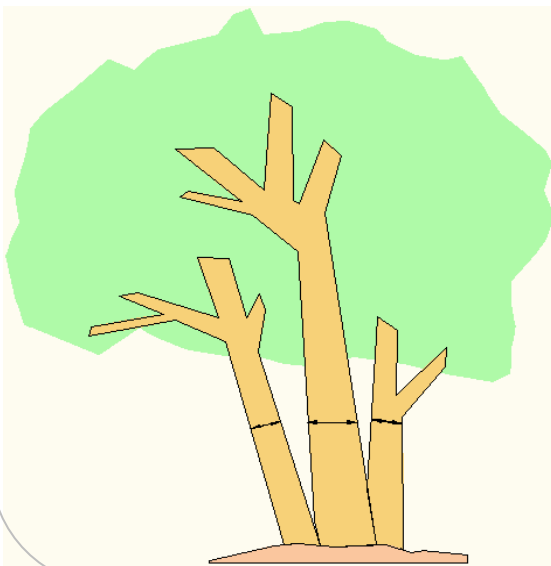
The RPAs of the trees have all been calculated in accordance with Annexe D of the BS and are given in the Tree Survey Schedule.

For single stemmed trees, the RPA radius is derived by multiplying the diameter of the tree at 1.5m above ground level by 12. For multi-stemmed trees, the RPA radius is derived by multiplying an equivalent stem diameter by 12. The formulae for calculating the equivalent stem diameters are as follows:

Equivalent stem diameter calculations for trees with multiple stems:

Trees with 2-5 stems: $\sqrt{(\text{stem diameter } 1)^2 + (\text{stem diameter } 2)^2 \dots + (\text{stem diameter } 5)^2}$

Trees with 5+ stems: $\sqrt{(\text{mean stem diameter})^2 \times \text{number of stems}}$



All stems measured at 1.5m above ground level.

RPA radius derived by multiplying equivalent stem diameter by 12

As for single stemmed trees, shape may under some circumstances be modified (with sound arboricultural justification) as long as total area remains the same

The RPA is the area (given in m²) that contains sufficient rooting volume for a tree to survive and remain healthy. Disturbance within this area has the potential to impact significantly upon tree health and vitality.

Sections 4.6.2 and 4.6.3 of the BS provide for the shape of the RPA to be modified from the starting point of a circle where rooting patterns are likely to be eccentric, subject to the total area remaining the same.

No RPAs have been modified in this instance and the RPAs of the surveyed trees are all shown as nominal circles on the Tree Protection Plan at Appendix 2.

2.3 Legal Protection Status of Trees

Type of Protection	Details/Ref.
Conservation Area	No
Tree Preservation Order	TPO 15/01 (G2)

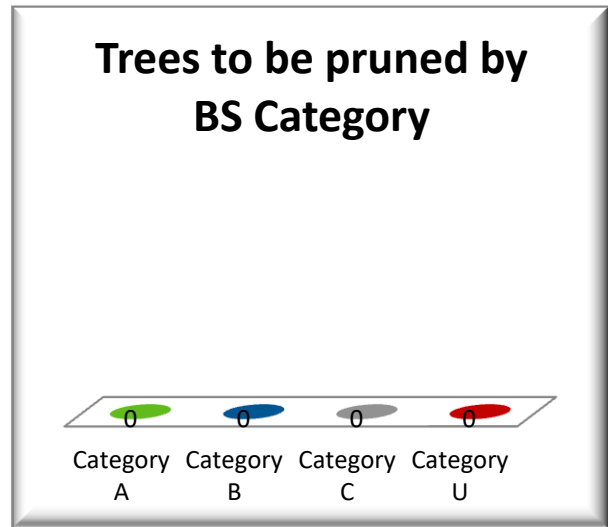
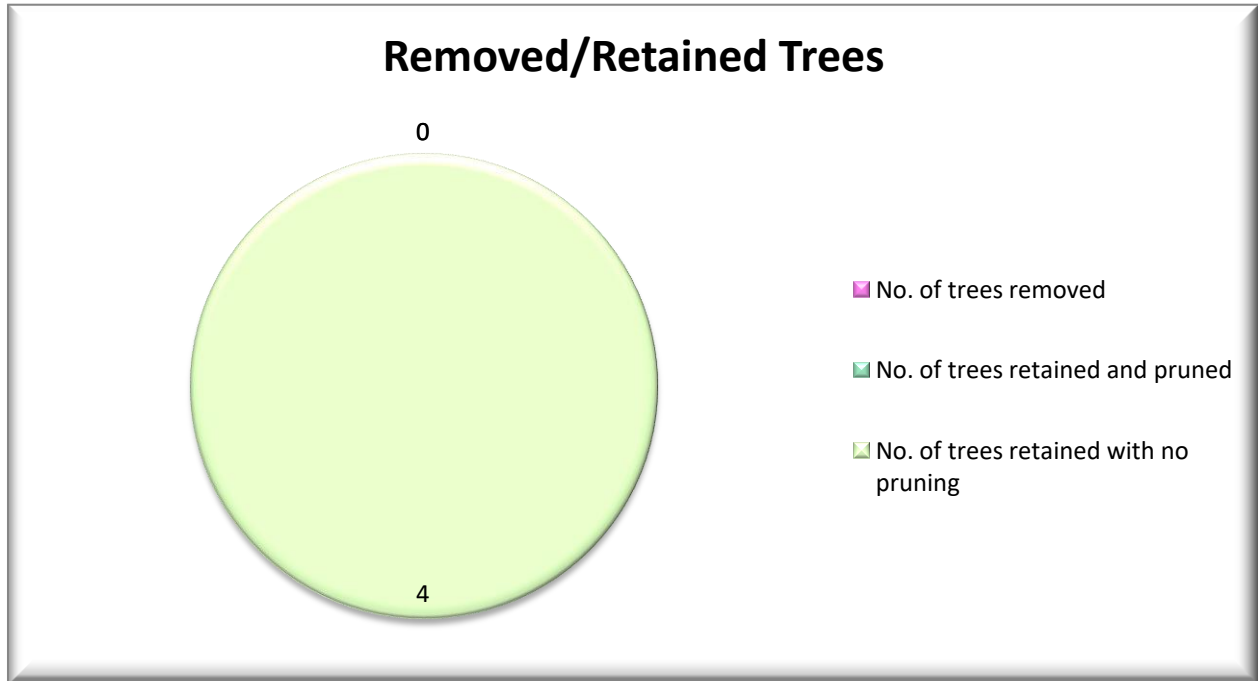
Information derived from Surrey Heath Borough Council website on 12th February 2021.

Screenshot from Surrey Heath Borough Council website showing group of protected trees within curtilage of property (TPO 15/01):



3 Arboricultural Impact Assessment

3.1 Overview of Arboricultural Impact



Number of trees with incursions within RPAs – 2

3.2 Tree Works

It will not be necessary to remove or prune any trees in connection with the project.

3.3 Incursions within RPAs

Incursions may be fully invasive (where a degree of root disturbance is considered acceptable) or low invasive (where specialist methods are used to limit the degree of disturbance). The table below details the incursions and how they are to be dealt with:

Incursions within RPAs of Retained Trees		
Type of Incursion	Trees affected	Action
Installation of foundation for new oak framed gazebo/garden room	Beech trees T1 & T2	Specialist low invasive foundation design to be used (either reinforced concrete raft or piled foundation) with no lowering of existing soil levels within RPAs of trees other than for any piles that may be installed. Installation of foundations to take place under direct arboricultural supervision with precautions as detailed in AMS. Full details of foundation design (including cross-sectional drawings) to be submitted to and approved in writing by LPA prior to any works commencing on site

3.4 Light and Proximity Issues

Section 5.3 of the BS is concerned with the proximity of structures to trees and recommends that buildings are sited at distances from trees that allow for future growth

without significant problems being experienced. Issues referred to include shading of buildings and open spaces, seasonal nuisances (dropping of leaves and fruits etc.) and concerns over safety. These issues can lead to pressure to heavily prune or remove trees in the future and LPAs will be mindful of this potential pressure when considering whether proposals for development in proximity to trees are acceptable.

The proposed oak framed gazebo/garden room is non-residential in nature (it is to be used for storage and other miscellaneous garden purposes) and is considered to be situated at an acceptable distance from Beech trees T1 and T2 subject to use of a low invasive foundation being used as detailed in the AMS.

Overall, the proposal is considered to accord with the spirit of Section 5.3 of the BS.

3.5 Mitigation

There are no specific proposals for soft landscaping/new tree planting at this stage, although the LPA will be free to attach a landscaping condition to any forthcoming planning consent if it is felt that some landscaping would be desirable in connection with the project.

3.6 Conclusion

Subject to full compliance with the AMS, the net arboricultural implications of the proposed works are considered acceptable. No trees are to be removed or pruned, a low invasive foundation design is to be used for the new gazebo/garden room within the RPAs of Beech trees T1 and T2 and the retained trees are to be afforded an adequate degree of physical protection during the works in accordance with the BS.

4 Arboricultural Method Statement

4.1 Introduction

To safeguard the retained trees on the site during the development process, the tree protection measures set out below will be adhered to. These will protect the rooting systems and aerial parts of the trees.

The essential principle is that the area inside the tree protective fencing and where ground protection has been used is to be protected for the duration of the works.

Any specialist methods referred to in this AMS are to be implemented in full and arboricultural inspection/supervision is to be carried out as detailed in the Sequencing and Supervision Section (Section 4.3).

A copy of this AMS will be maintained on site at all times and made available to all site personnel.

All site personnel will be made aware of the key implications of this AMS. The Arboricultural Consultant can give a 'tool-box talk' to site personnel if required to ensure that the tree protection details are fully understood.

As of 2005, Local Planning Authorities have powers to serve Temporary Stop Notices if agreed tree protection measures are not carried out. Adhering to this AMS will ensure that such costly and time consuming action is avoided.

4.2 Pre-Commencement Meeting

A pre-commencement site meeting, involving the Site Manager, the Arboricultural Consultant and the LPA Tree Officer will be held to ensure that all aspects of the tree protection process are understood and agreed.

Any potential problems can be discussed at this stage, along with the exact sequencing of events and the level of arboricultural inspection/supervision required. The Arboricultural Consultant will communicate a record of the meeting to all parties by e-mail.

Matters to be discussed at Pre-Commencement Meeting

- Timing and sequencing of works
- Exact locations and specifications for tree protective fencing and ground protection
- Works within the RPAs of Beech trees T1 and T2
- Any other arboricultural issues

It will also be useful for all parties to exchange current contact details at the meeting

4.3 Sequencing and Inspection/Supervision

Sequencing of events and effective arboricultural inspection/supervision are important elements of the tree protection process.

Works that have the potential to affect trees (in this case installation of the foundation for the new gazebo/garden room within the RPAs of Beech trees T1 and T2) will be supervised by a suitably qualified and experienced Arboricultural Consultant.

The appointed Arboricultural Consultant will make a record of any visits to the site and will communicate details of each visit to the Client and the LPA. This will provide evidence of compliance and ultimately enable the LPA to discharge tree related planning conditions.

Key Stages with suggested sequencing of works:

- AMS issued to Site Manager/Building Company
- AMS read by all site personnel to ensure full understanding of implications. Any queries addressed by appointed Arboricultural Consultant
- Convening of pre-commencement meeting
- Tree protective fencing erected and ground protection installed as per Tree Protection Plan

- Construction works carried out (with arboricultural supervision as detailed in AMS)
- Tree protective fencing and ground protection removed
- Landscaping works carried out (if any)

Summary of Required Arboricultural Inspection/Supervision:

Activity	Level of monitoring/supervision required
Erection of tree protective fencing and installation of ground protection	Inspection of tree protective fencing and ground protection by appointed arboricultural consultant
Installation of new low invasive foundation for new gazebo/garden room within RPAs of Beech trees T1 and T2	Direct supervision of works on site by appointed arboricultural consultant

4.4 General Site Precautions

The following points will be observed at all times:

- No fires will be lit within 10m of the canopies of retained trees.
- Notice boards, telephone cables or other services will not be attached to any parts of retained trees.
- Site operations will be planned to avoid damage to the aerial parts of trees. Particular care will be taken when using piling rigs and plant with booms, jibs and counterweights.

- Materials that contaminate the soil (e.g. concrete mixings, diesel oil, builders' sand and vehicle washings) will not be permitted to enter the RPAs of retained trees.

4.5 Carrying out of Tree Works

It is not in this instance proposed to carry any tree works in connection with the project.

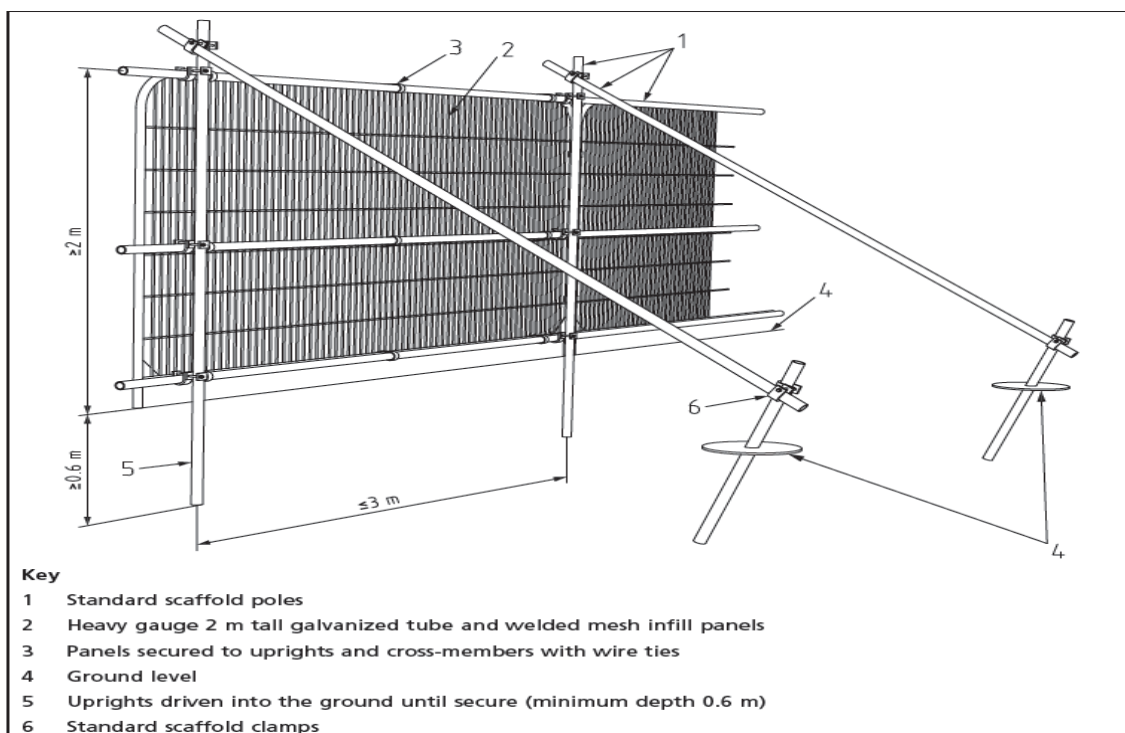
4.6 Tree Protective Fencing and Ground Protection

Tree protective fencing and ground protection are used to ensure that the RPAs of retained trees are safeguarded.

The required tree protective fencing is shown on the Tree Protection Plan (Appendix 2). The fencing will remain in position for the duration of the development and will only be moved/alterd as agreed in writing by the LPA following arboricultural advice.

The tree protective fencing will be 2.0m Heras fencing as specified in the BS. The fencing will be supported by a scaffold framework with supporting struts firmed into the ground on the side of the trees. The purpose of the supports is to prevent the fencing being moved during the development. Clear signs will be attached to the fencing (e.g. Tree Protection Area – Keep Out!).

Tree Protective Fencing Default Specification - BS5837: 2012



Braced Heras Tree Protective Fencing in situ – BS5837: 2012

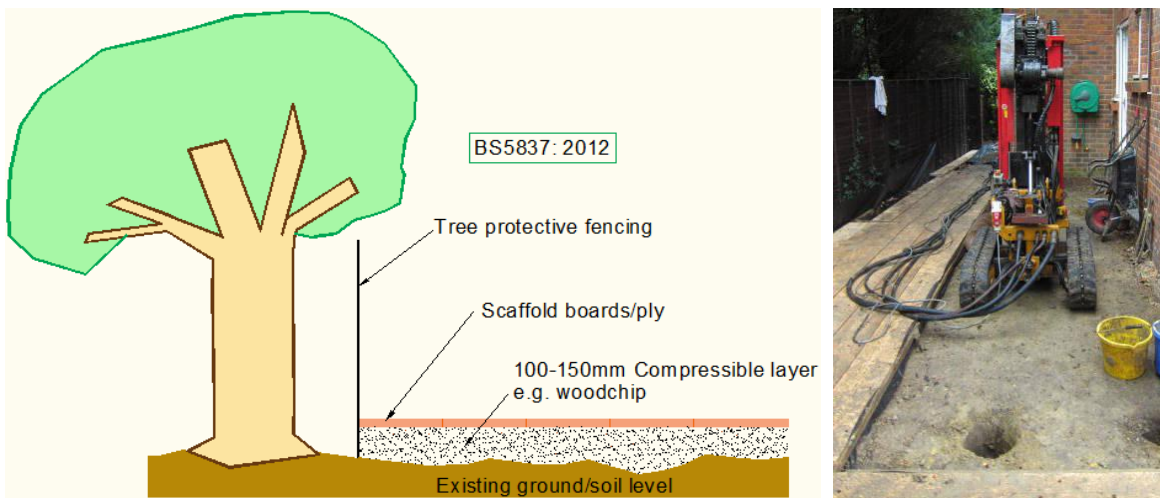


It may *in some cases* be acceptable (e.g. on smaller sites) for rubber or concrete ‘feet’ at the base of heras fencing to be pinned to the ground or for short outriggers to be attached to the fencing and pinned to the ground in lieu of a full scaffold framework. The exact specification of fencing that will be acceptable in this instance can be discussed at the pre-commencement meeting.

Ground protection has also been specified to protect the RPAs of retained trees as shown on the Tree Protection Plan at Appendix 2. To accord with the BS, the specification for the ground protection will be as follows:

- A geotextile membrane on the ground
- 100-150mm depth of a compressible layer (e.g. woodchips)
- Side butting scaffold boards or plywood on top

Schematic of ground protection & example on site



Nb. The above ground protection specification is suitable for loadings up to 2 metric tonnes (2000kg). For wheeled or tracked construction traffic of over 2 tonnes in weight (gross), more substantial ground protection will be required (e.g. Eve Trakway or a similar proprietary system). In this instance, the above specification is likely to be sufficient.

4.7 Site Access and Hard Surfacing.

No hard surfacing is to be removed or installed within the RPAs of retained trees. Some existing paving will be removed by hand prior to installing the new low invasive foundation. This matter is addressed in Section 4.10 below.

4.8 Demolition

No demolition works are to take place within the RPAs of retained trees.

4.9 Underground Services

It will not be necessary to install any new underground services within the RPAs of retained trees. Electricity is to be provided to the new building but any cabling will enter the building from the existing garage at the furthest point from the trees and will be outside the RPAs.

4.10 Foundations and Construction

The foundation for the new Oak framed gazebo/garden room is within the RPAs of Beech trees T1 and T2 as shown on the Tree Protection Plan at Appendix 2. A low invasive foundation design will be used comprising either a reinforced concrete raft or a piled foundation with the beams above existing soil level.

Some existing paving is to be removed over the footprint of the building immediately prior to the foundation being installed. The paving (along with any sub-base that needs to be removed) will be removed by hand with the use of hand tools only (including hand held breakers if required).

The full foundation specification (including cross sectional drawings) will be submitted to and approved in writing by the Council prior to any works commencing on site and the foundation - once it has been approved -will be installed in accordance with Section 7 of the BS under direct arboricultural supervision.

The following specific precautions will be adopted when installing the foundation:

- No lowering of existing soil levels will take place within the RPAs of the trees (except for the installation of any piles that are to be used) and care will be taken at all stages during the works to prevent compaction of the soil.
- The underside of the concrete raft (or the piles if a piled foundation is to be used) will be lined with heavy gauge polythene/damp-proof membrane concrete to safeguard the rooting environment of the trees from the potentially toxic effects of leaching concrete.

Full details of the sequencing of the works and the precautions to be adopted as the foundation is being installed can be discussed and clarified at the pre-commencement meeting.

Nb. The necessity to use a low invasive foundation design as described above will have an implication in terms of floor level/elevation.

4.11 Fencing and Landscaping

During the landscaping phase of the project (if any landscaping works take place), the following precautions will be observed:

- Soil within the RPAs of retained trees (and where new tree planting is proposed) will not be compacted. This will preclude the use of heavy plant within RPAs unless suitable ground protection is used
- There will be no changes in ground levels within the RPAs of retained trees
- No underground irrigation or drainage pipes will be installed within the RPAs of retained trees

If any fence posts are installed within the RPAs of retained trees, excavation will be carried out using hand tools. Posts will be re-positioned if roots in excess of 25mm in diameter are encountered. Post holes will be lined with heavy gauge polythene where concrete is used to safeguard the rooting systems of the trees from the potentially toxic effects of leaching concrete.

4.12 Amendments

Issues may arise on projects of this nature that require amendments to the previously agreed tree protection details. Any amendments to this AMS will be approved in writing by the LPA prior to being implemented. Copies of paperwork relating to any amendments will be communicated by the Arboricultural Consultant to the Client and LPA.

Appendix 1

Tree Survey Schedule





Tree Ref	Common Name	Height	Crown Spread	Crown Height	Age Class	No. of Stems	Stem Diameter	RPA Radius	Vigour	Structural Condition	Landscape Value	BS Cat	Useful Life	Notes & Observations
T1	Beech	19	6 6 5 5	5	M	1	720	8.6	Normal	Fair	Medium	B1, B2	20+	Mature Beech growing within a row of similar trees; crown recently reduced
No. of trees: 1														
Recommended Works:		No works proposed												
Reasons for Works:		N/A												
T2	Beech	19	6 6 6 7	5	M	1	830	10.0	Normal	Fair	Medium	B1, B2	20+	Mature Beech growing within a row of similar trees; crown recently reduced
No. of trees: 1														
Recommended Works:		No works proposed												
Reasons for Works:		N/A												
T3	Beech	20	7 7 7 7	5	M	1	780	9.4	Normal	Fair	Medium	B1, B2	20+	Mature Beech growing within a row of similar trees; crown recently reduced
No. of trees: 1														
Recommended Works:		No works proposed												
Reasons for Works:		N/A												
T4	Beech	12	4 4 3 4	5	EM	1	370	4.4	Normal	Fair	Medium	B1, B2	20+	Early-mature Beech growing within a row of similar trees; crown recently reduced
No. of trees: 1														
Recommended Works:		No works proposed												
Reasons for Works:		N/A												

Total no. of surveyed trees: 4

Key to Tree Survey Schedule (BS5837: 2012)

Tree Ref. – Consecutive numbering. T = Individual Tree: G = Tree Group: H = Hedge

Species – Common or Latin name for tree

Height – Height of tree in metres

Crown Spread – Radial crown spread in metres at the four cardinal points (N E S W)

Crown Height – Height of lowest parts of crown above ground level in metres

Age Class – Young, Semi-Mature, Early-Mature, Mature, Over-Mature

No. of Stems – Number of stems over 75mm in diameter at 1.5m above ground level

Stem Diameter – Diameter of stem in mm at 1.5m above ground for single stemmed trees. For multi-stemmed trees, equivalent diameter figure calculated as per the BS (e= estimated value; m = mean value)

RPA Radius – The radius of the Root Protection Area of the tree (from the tree centre) in metres

Vigour – An indication of the physiological condition/health of the tree: Normal, Moderate, Poor, Dead

Structural Condition – An assessment of the overall structural condition of the tree: Good, Fair, Poor

Landscape Value – High, Medium, Low

BS Cat – BS5837: 2012 Category. A- High, B- Moderate, C- Low, U- Remove. *For full description of categories see Table 1 of BS5837:2012*

Useful Life – Estimated remaining contribution to the landscape in years

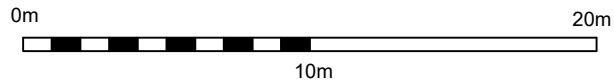
Notes and Observations – miscellaneous notes where it is considered that these may be useful

(Recommended works and reasons for works also given in Tree Survey Schedule).


Appendix 2

Tree Protection Plan





LPA - Surrey Heath Borough Council
 Conservation Area - No
 Tree Preservation Order - Yes (TPO 15/01)

 Proposed gazebo/garden room
 (Oak framed)

 Exg paving

HOPE FOUNTAIN

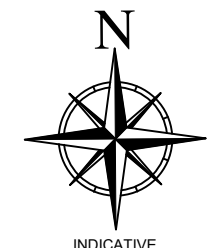
Construction access

7









TPF

Other, smaller trees
 far removed from proposed
 works & will be unaffected

Proposed gazebo/garden room (not to scale)



INDICATIVE

-  Root Protection Area (RPA) of retained tree (ref. BS5837:2012)
-  Category A
-  Category B
-  Category C
-  Category U
-  Tree to be removed
-  Ground protection
-  TPF Tree protective fencing

Plan to be printed in colour and to scale

DRAWING TITLE

Tree Protection Plan

7 Hope Fountain,
 Camberley
 GU15 1JF

SCALE 1:250 (A3)	DATE 12.02.21	DRAWN BY AP
DRAWING NUMBER TPP/APA/AP/2021/028	REV	

APArbiculture

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 Weybridge
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 KT13 8NA




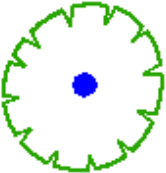


Tel: 01932 450104
 aparbiculture@gmail.com
www.aparbiculture.co.uk

Appendix 3

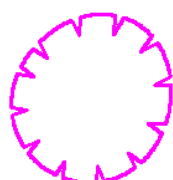
BS5837 Categorisation System



BS5837:2012 Categorisation System (Abbreviated)

<p>Category A</p>		<p><i>Trees of high quality with an estimated remaining life expectancy of at least 40 years. Particularly good specimens (A1); Trees, groups or woodlands of particular landscape significance (A2); Trees, groups or woodlands of significant conservation, historical or commemorative value (A3)</i></p>
<p>Category B</p>		<p><i>Trees of moderate quality with an estimated remaining life expectancy of at least 20 years. Trees of slightly lower individual quality (B1); Trees of collective value but of lesser overall landscape significance than Category A trees (B2); Trees with material conservation or cultural value (B3)</i></p>
<p>Category C</p>		<p><i>Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm. Unremarkable trees of limited merit (C1); Trees, groups or woodlands of low landscape value (C2); Trees with no material conservation or cultural value (C3)</i></p>
<p>Category U</p>		<p>Trees 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 (dead, declining and diseased trees etc.) It will normally be recommended that these trees be removed (unless they have particular conservation/ecological value)</p>

- Category A, B and C trees should be considered for retention
- Although Category C trees are generally of lower overall quality and landscape significance, they may still constitute a material planning constraint
- Category U trees are usually unsuitable for retention



Tree to be removed (Category U trees and other trees where justification can be presented within context of development works being proposed)

The legal protection status of the trees will also be an important consideration regarding retention or otherwise of trees (see Section 2.3 of report)