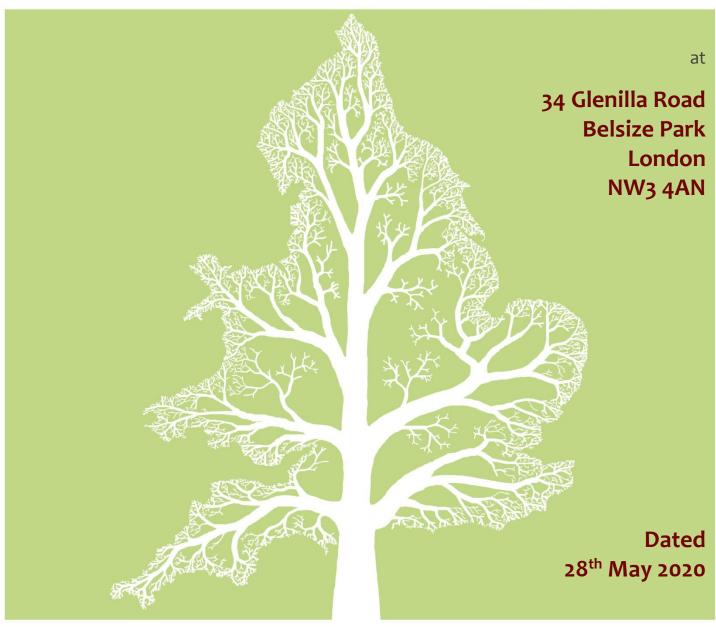
BS 5837 Arboricultural Report

& Impact Assessment









Site: Crown Ref: 10510 34 Glenilla Road , Belsize Park

Date: 28th May 2020 Author: Emma Hoyle

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Author: Emma Hoyle Date: 28th May 2020

1. Introduction

1.1. Instruction

- 1.1.1. We are instructed by Adam Khan Architects to:
 - Undertake an Arboricultural Survey at 34 Glenilla Road and assess all trees potentially within influencing distance of proposed development within the site.
 - Plot the trees on a Tree Constraints Plan and record the data in a Tree Data Schedule.
 - Provide an overview of the site and any management recommendations.
 - Determine if any of the trees are growing within a conservation area or are protected by a tree preservation order.
 - Provide guidance for architects or developers to enable them to understand and design within the existing tree constraints.
 - Assess the potential impact of the development proposals and provide guidance as to appropriate mitigation measures.
 - Produce an Arboricultural Impact Assessment for submission to the local authority once the design has been finalised.

1.2. Scope and Purpose of the Report

- 1.2.1. This report is designed to accompany a planning application for development proposals at the above site. Its purpose is to assist and inform the planning process. It is produced according to the guidance and recommendations within BS 5837: 2012 Trees in Relation to Design, Demolition and Construction.
- 1.2.2. The accompanying Arboricultural Impact Assessment specifies the principles to be adopted during construction and demolition that will minimise any impacts on trees. However, specific construction activities proposed within Root Protection Areas may need to be agreed in more detail if requested by the local authority at the reserved matters stage (for an outline planning applications) or via planning conditions.

1.3. References

1.3.1. We have liaised with the project architect attain an adequate understanding of the project to enable us to carry out an accurate assessment of the proposals.

1.4. Survey Details and Findings

- 1.4.1. A visual ground level inspection of all trees was undertaken on the 24th March 2020 by Joe Taylor. No climbed inspections or specialist decay detection were undertaken. Details of how the survey was undertaken can be found in Appendix 1.
- 1.4.2. The findings of the survey are presented in The Tree Data Schedule which is provided as a separate document as well as being appended to the end of this document within Appendix 6. The vegetation is further discussed in Section 3.
- 1.4.3. The Schedule includes scaled tree images based on measurements recorded for stem diameter, crown spread, crown height and overall height. Their purpose is to indicate, at a glance, the relative dimensions of each tree.



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1.4.4. A definition of the Retention Categories can be found in Appendix 1. All other terms used within the Tree Data Schedule are defined and explained in Appendix 2. A more detailed description of the survey method is detailed in Appendix 3.

1.5. Drawings

- 1.5.1. The tree locations shown on the accompanying plans which are reproduced in Appendix 6 have been plotted according to measurements taken on site.
- 1.5.2. The *Tree Constraints Plan* shows the existing layout. For each tree the stem location is indicated and scaled according to its diameter, the canopy is indicated according to measurements taken along the four cardinal points of the compass. Root protection areas (RPAs) are indicated which are calculated according to the guidelines within BS 5837 (2012).
- 1.5.3. Where appropriate, the shapes of the RPAs have been amended to reflect actual site conditions or where trees have been heavily pruned. The 'original' RPAs are indicated as a dashed line whereas the amended RPAs are indicated as a solid line.
- 1.5.4. The *Impact Assessment Plan* indicates the tree constraints with the proposals overlaid. Where applicable, this plan shows where works are proposed in Root Protection Areas and which trees are to be pruned or removed. This plan accompanies the Impact Assessment which is to be found in Section 4.

1.6. Author

1.6.1. This report was compiled by Emma Hoyle FDSc (Arboriculture), ED (Forestry & Arboriculture), M. Arbor. A. Details of the author's experience that qualify her to produce such a report are detailed in Appendix 4.

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2. Site Overview

2.1. Brief Description

- 2.1.1. 34 Glenilla Road is a semi-detached, residential property with front and rear gardens.
- 2.1.2. A small Yew hedge grows within the front garden and a Retention Category B street tree (T4) overhangs the front boundary.
- 2.1.3. Pedestrian access leads down the western side of the dwelling to the rear garden. The rear garden is mostly occupied by a lawn with timber steps leading down from the rear of the dwelling. Two Retention Category C trees (T1 and T2) grow within the rear garden.
- 2.1.4. Adjacent to the site are four Retention Category C trees (T3, T5, T6 and T7) growing within neighbouring gardens. These trees are located away from development proposals.
- 2.1.5. The site measures approximately 11m by 27m and is generally flat with no abrupt level changes.
- 2.1.6. The Tree Constraints Plan and Tree Data Schedule (see Appendix 6) should be referred to for descriptions and locations of all trees.

2.2. Coordinates

2.2.1. The site coordinates are o°10'2.99"W 51°32'53.96"N and the altitude is approximately 63m above sea level¹.

2.3. Survey Extent

2.3.1. We surveyed the front and rear gardens along with all trees beyond the curtilage of the property which could potentially be affected by any development within it. The area indicated below² shows the extent of the survey.



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¹ To access satellite imagery and street views of the site these co-ordinates may be entered into: http://maps.google.co.uk/

² Image taken from Google Earth and may not be current

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3. Vegetation Overview (independent of proposals)

This section summarises all the recommendations within the Tree Data Schedule regardless of whether trees are to be retained, felled or pruned to facilitate the proposed development. It does not specify works that may be required to facilitate the development proposals. The protection status of the trees is also reported in this section.

3.1. Preliminary Management Recommendations

3.1.1. The trees were all deemed to be in an acceptable condition and no significant defects were observed. Consequently, no remedial works have been recommended.

3.2. Future Inspections

3.2.1. The table below suggests a schedule of future inspections based on the condition and location of each tree:

Inspection Frequency (years)	Tree Number
0.5	None
1	None
1.5	None
3	T1, T2, T3, T4, T5, T6, T7

3.2.2. The trees should be inspected sooner if there is a noticeable decline in their condition or following extreme weather events.

3.3. Tree Protection Status – Site Specific

- 3.3.1. On 12th March 2020, we were informed by Rav Curry of London Borough of Camden that:
 - The site lies within the Belsize Park Conservation Area.
 - There are no TPO's affecting trees within the site.
 - There are no TPO's affecting trees immediately adjacent to the site.

3.4. Tree Protection – General Notes

- 3.4.1. Where trees are located in a conservation area (but not protected by a TPO), works are not permitted without first giving the local authority 6 weeks' notice of intention. During this time the local authority may elect to create a tree preservation order or to inform the applicant that they have no objection to the proposed works. If the local authority does not respond within 6 weeks, then the intended work may be undertaken. Note: the local authority cannot refuse consent for works to trees within a conservation area; they may only create a tree preservation order if they wish to have further control over what works are undertaken.
- 3.4.2. Where planning permission is granted and tree works have been approved as part of the planning consent, no further application is required in respect of protected trees and no further notice is required in respect of trees within a conservation area.

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3.5. Species Present – Additional Information

3.5.1. The table below contains general information about the tree *species* (rather than the actual tree *specimens*) included in the survey. Its purpose is to assist readers who are unfamiliar with the characteristics of the various species.

Species	Typical Height at Maturity (m)	Typical Canopy Spread at Maturity (m)	General Notes
Apple	6	8	Deciduous tree native across Europe and W. Asia. Hundreds of cultivars available due to its popular fruit. Flowers white, pink or red in spring. Some species will self-pollinate. Most species have a relatively untidy habit. Older specimens are susceptible to a variety of rusts, moulds and cankers. Excellent habitat tree. Visit https://www.pfaf.org/user/Plant.aspx?LatinName=Malus+domestica for more info.
Cherry	8	10	Many cultivars available, bred for their abundance of spring flowers, edible cherries or ornamental bark (e.g. Tibetan Cherry). Usually white or pink flowering, often in very early spring. Usually with a single bole to around 2.5m and multi-stemmed thereafter. Most varieties have excellent autumn colour.
Holly	16	12	Evergreen tree native across Western Europe. Many cultivars available, often with variegated leaves. Females produce bright red berries. Good wildlife value. Visit https://www.pfaf.org/user/Plant.aspx?LatinName=llex+aquifolium for more info.
Lawson Cypress	40	10	Erect, narrowly conical evergreen tree native to Southwest Oregon and N. W. California. Introduced to Britain in the 1850's and now a common tree in gardens and parks. Makes an excellent dense hedge. Many varieties are available including golden and miniature varieties. Easily distinguished from Leyland cypress by the presence of small cones. Visit http://www.pfaf.org/user/Plant.aspx?LatinName=Chamaecyparis+lawsoniana for more info.
Whitebeam	35	9	Deciduous tree native throughout Europe. Naturalised in Britain on chalk and sandy soils. Good autumn colour and summer berries. Often planted as a street tree. Usually single stemmed becoming multiple-stemmed at 2m. Many cultivars available. Visit https://www.pfaf.org/user/Plant.aspx?LatinName=Sorbus+aria for more info.

3.5.2. The figures quoted regarding typical height and canopy spread should be treated as approximate. Actual heights and spreads vary according to several environmental factors such as soil conditions, climate and presence of competing vegetation. The figures quoted are not the maximum dimensions that the species may attain.

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4. Arboricultural Impact Assessment

4.1. Overview

4.1.1. It is proposed to extend the existing basement, construct a conservatory at the rear of the existing building and repave the pedestrian surface at front of the property as indicated on the plans in Appendix 6. The existing layout is indicated in black, the footprint of the basement layout is indicated in pink and the proposed ground floor layout is indicated in pale green.

4.1.1. The table below summarises the potential impact on trees due to various activities.

Activity	Trees Potentially Affected
Tree Removal	1.5m tall Yew hedge
Tree Pruning	None
RPA: Building Foundations	None
RPA: Other Foundations	None
RPA: New Paved Surface	T4
RPA: Underground Services	T4
RPA: Change of Ground Levels	None
RPA: Soil Compaction	Trees adjacent the construction area (preventable by installing tree protection measures)

4.1.2. Other potentially damaging activities often associated with construction sites include demolition or the careless use of plant machinery, hazardous materials, or fires. All of the above potential impacts are considered in detail throughout this section.

4.2. Tree Removal

4.2.1. All trees within the site are to be retained. The 1.5m tall Yew hedge at the front of the property is to be removed and replaced.

4.3. Mitigation Planting

4.3.1. As the 1.5m tall Yew hedge proposed for removal is located along the front boundary of the property and is visible from the street, it is important that a new hedge is planted in its place.

4.4. Impact on Tree Canopies

4.4.1. The canopies of all trees are located sufficiently far from proposed building works and sufficiently high over access routes throughout the site that they shall not be impacted upon by any construction activity. Consequently, no pruning works are required to facilitate construction activity or access throughout the site. However, operatives of machinery working close to tree canopies should be marshalled to ensure they do not accidentally damage overhead branches.

4.5. Impact on Tree Roots

4.5.1. **Building Foundations:**

4.5.2. No building foundations for the basement or conservatory are proposed within the Root Protection Area of any tree. Consequently, no restrictions on foundation design or implementation are considered necessary from an arboricultural perspective.

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4.5.3. **New Surfaces:**

- 4.5.4. It is proposed to remove the existing pedestrian surface over a portion of the Root Protection Area of T4 within the front garden and replace it with a new paved surface. In order to minimise the impact on roots, the following mitigation is proposed:
 - A suitable load spreading surface shall be in place at all times during construction activities.
 - No excavation shall occur beneath the existing surface and its sub-base.
 - Only hand tools shall be used to remove/lift the existing surface.
- 4.5.5. Soils is this area are likely to be relatively compacted already and no net increase in traffic is anticipated; therefore, no significant detrimental impact shall occur as a result of resurfacing, and the installation of a 3D cellular confinement system beneath the surface is not considered necessary.

4.5.6. Underground Services:

- 4.5.7. I understand that it may be necessary to excavate a service trench within the RPA of T4 to connect a new inspection chamber to the existing services. This could potentially have a major impact on the health of the tree unless done so in a sympathetic manner that preserves as many roots as possible. Three example methods are suggested below:
- 4.5.8. 1) Broken Trench Method: The trench shall be excavated as a series of pits o.8m wide x 1.2m long with undisturbed ground of 1.2m between each pit. These shall be excavated in the presence of the project arborist using hand tools or a mechanical excavator operating outside the Root Protection Areas.
- 4.5.9. Where roots in excess of 25mm are unearthed these shall be retained if possible and worked around. All smaller roots shall be pruned back to the sides of the pits with secateurs. The pits shall then be connected into a continuous tunnel at an appropriate depth to suit the drainage requirements. This shall be done using hand tools only.
- 4.5.10. 2) Air-Spade Method: The upper 0.6m of trench shall be excavated using an air-spade and a hand spade under the supervision of the project arborist. The maximum number of roots possible shall be kept intact. Roots shall only be severed where they prevent access into the trench to excavate deeper levels. Excavation beneath retained roots shall be carefully undertaken by persons operating from within the trench.
- 4.5.11. Where an air-spade is not available, all soil must be carefully loosened with a garden fork to test for the presence of roots before excavating with a hand spade.
- 4.5.12. Subject to ground conditions and rooting activity the project arborist will determine whether the air-spade / garden fork shall be required at deeper depths.
- 4.5.13. **3) Trenchless Method:** Pits shall be excavated at either side of the service run, and a remotely controlled drill shall excavate the tunnel in which the services shall be installed. No other excavation shall be permitted.
- 4.5.14. The exact location of any proposed trenching and the specific method of installation must be agreed with the local authority.

4.5.15. Changes in Ground Levels:

4.5.16. No changes to ground levels are proposed over Root Protection Areas.

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4.5.17. **Soil Compaction:**

4.5.18. The majority of tree roots lie within the upper soil horizons. This is because the availability of oxygen decreases with depth and roots need to breathe to stay alive. In addition, nutrients are more readily available in the form of organic matter close to the soil surface.



- 4.5.19. Healthy soils contain about 25% air space between solid particles. Increased loading of the soils caused by construction activity causes air to be squeezed out as the soil becomes compacted preventing roots from breathing. Even an increase in pedestrian activity may cause some soil compaction.
- 4.5.20. It is important therefore that ground compaction and soil disturbance over Root Protection Areas should be avoided during the construction phase. This may be done by installing protective fencing and ground protection measures which should be approved and conditioned by the local authority.

4.6. Demolition Activities

4.6.1. Tree protection measures should be installed prior to the commencement of all demolition activities (including soil stripping) to prevent any detrimental impact on tree health. demolition phase and the protective barriers installed immediately thereafter.

4.7. Hazardous Materials

4.7.1. All hazardous materials (including cement and petrochemical products) will need to be controlled according to COSHH regulations in order to ensure there is no detrimental impact on tree health. Provision shall need to be made to ensure that cement and cement run-off are contained outside of all Root Protection Areas.

4.8. Cabins and Site Facilities

- 4.8.1. Consideration should be given to the location of any site welfare facilities in terms of potential impact on trees. Where it is proposed to install cabins or site facilities in Root Protection Areas, the project arborist should be consulted and approval obtained from the local authority.
- 4.8.2. There is limited room for the siting of cabins and storage of materials / spoil during the construction phase so the logistics of the development shall need to be well organised to ensure that there is adequate space outside of the Tree Protection Zones for construction activity.

4.9. Boundary Treatments

4.9.1. We are not aware of any changes are proposed to the existing boundary features that might impact on trees.

4.10. Impact of Retained Trees on the Development

- 4.10.1. It is considered that adequate space has been allowed between the trees to be retained and the proposed buildings. Consequently the proposal shall not result in an increased pressure to remove or prune any of the retained trees.
- 4.10.2. The foundations and any new surfaces should be designed to accommodate all potential impacts due to future tree rooting activity. These include potential vegetation related subsidence, vegetation related heave, and lifting of surfaces / light structures due to direct root pressure.

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4.11. Summary

- 4.11.1. The proposal seeks to retain all of the trees surveyed. One small Yew hedge at the font of the property is to be removed and replaced.
- 4.11.2. No pruning works are required to facilitate the proposal.
- 4.11.3. The existing pedestrian surface at the front of the property is to be removed and replaced with new paving. In order to ensure any potential impact upon T4 is kept to a minimum, hand tools only are to be used and excavation is not to exceed the depth of the existing surface and its subbase.
- 4.11.4. No building foundations are proposed within Root Protection Areas.
- 4.11.5. Where underground services are to be installed within the RPA of T4, a narrow trench should be excavated sympathetically using hand tools or an airspade and in the presence of the project arborist. The specific methodology must be agreed with the local authority.

4.12. Arboricultural Method Statement

- 4.12.1. BS 5837 recommends that a detailed methodology is agreed in the form of an Arboricultural Method Statement which shall ensure that trees are well protected during the construction phase. This should detail all tree protection measures and limitations on construction activity. All of the issues raised within this Impact Assessment should be covered by the Method Statement.
- 4.12.2. So long as the protection measures are well specified and carefully implemented, there shall be no long term detrimental impact on the health of the adjacent trees.

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Emma Hoyle 28th May 2020 Author: Date:

Photographs 5.

Photo 1.



Photo 2.



Photo 3.



Photo 4.



Photo 5.



Photo 6.



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Photo 7.



Photo 8.



Photo 9.



Photo 10.



Photo 11.



Photo 12.



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Appendix 1: BS 5837: 2012 – Guidance Notes

This Standard prescribes the principles to be applied to achieve a satisfactory juxtaposition of trees and structures. It sets out to assist those concerned with trees in relation to design, demolition and construction to form balanced judgements.

It acknowledges the positive contribution trees may offer to a site, as well as the negative aspects of retaining inappropriate trees. It addresses the negative impacts that construction activity may have upon trees and offers mitigation strategies to minimise these impacts.

The Standard suggests a three stage approach to ensure best practice is followed when developing close to trees:

A1.1 Stage 1: Survey Details and Notes

A ground level visual survey was undertaken. No climbed inspections or specialist decay detection were undertaken. Only trees with a stem diameter over 75mm, which lie within the site boundary or relatively close to it, were included.

Where applicable, trees with significant defects have been highlighted and appropriate remedial works have been recommended. However, this report should not be seen as a substitute for a full *Safety Survey* or *Management Plan* which are specifically designed to minimise risk and liability associated with responsibility for trees.

Wherever practicable dimensions were obtained using diameter tapes, logger's tapes, distometers and clinometers. Where obstacles prevent accurate measurement, dimensions are estimated. Trees on privately owned third party are surveyed from the best available vantage point and observations relating to the condition of these trees should be treated accordingly. All height measurements should be regarded as approximate.

Data is recorded for each tree and is presented in a Tree Data Schedule. Each tree is allocated a **Retention Category** according to its size, amenity value, condition and safe useful life expectancy. The categories are allocated independently of development proposals. Our interpretation of the Retention Categories is explained below:

A1.1.1 Retention Categories

A Category: Trees of high quality and amenity value. Usually, mature trees with a significant life expectancy which would enhance any development. Retention of these trees is strongly encouraged.

B Category: Trees of moderate quality and amenity value. Usually these are maturing trees or younger trees with exceptional form. Retention of these trees is desirable though the removal of occasional specimens may be acceptable.

C Category: Trees of low quality or small specimens with a relatively low amenity value. These trees are not considered to be a material planning constraint and their removal will generally be seen as acceptable in order to facilitate development.

U Category: Trees of such low quality that their removal is recommended regardless of development proposals.

Occasionally trees are borderline and do not fall neatly into one of the categories A, B or C. In such cases we apply a superscript (+/-) such that:

C⁺ Indicates borderline C/B, though Category C is deemed to be most appropriate.

B Indicates borderline C/B, though Category B is deemed to be most appropriate.

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The British Standard suggests that each of the A, B and C categories may be further subdivided (A1, A2, A3, B1, B2, B3 etc) such that subcategory 1 denotes mainly arboricultural values, subcategory 2 denotes mainly landscape values and subcategory 3 denotes mainly cultural values (including conservation). Multiple subcategories may be used.

Our experience suggests that these subdivisions lack clarity and can be confusing. Within this report subcategories are **not** denoted. Where appropriate, the use of phrases such as 'Part of a formal group', or 'Has a high ecological value', or 'Offers good screening to the site' are incorporated into the observation section of the Tree Data Schedule. We believe this conveys all relevant landscape and cultural information without any confusion.

Tree Constraints Plan (TCP). This indicates the position, crown spread, Retention Category and Root Protection Area of each tree. It is used to inform where development may proceed without causing damage to trees.

Root Protection Area (RPA). This is the area around each tree likely to contain the majority of roots. It should ideally remain undisturbed to avoid a detrimental impact on tree health. For single stemmed trees It is calculated according to the formula "radius of RPA" = "12 x stem diameter". Where a tree has more than one stem, the equivalent-single-stem diameter is usually recorded. This is calculated by adding the squares of the stems and then finding the square root of this total. The radius of the Root Protection Area is then calculated by multiplying the equivalent-stem-diameter by 12.

Shade Constraints. The previous Standard (BS 5837 2005) suggested that shade constraints should be indicated on the TCP. This are denoted as a circle-segment drawn northwest to due east with a radius equal to the height of the tree. These do not represent the actual shade pattern which varies through the seasons. Rather, they indicate the area most shaded by the tree throughout the course of the year. Ideally habitable room windows should be located outside of these shade constraints. Where we consider it appropriate, we will include shade constraints information on our Impact Assessment Plan or Proposed Layout Plan.

A1.2 Stage 2: Arboricultural Impact Assessment

After the initial survey and the production of the Tree Constraints Plan, arborists and designers are encouraged to work together to establish a design proposal with minimal impact on the high quality trees. An assessment should be made of all possible impacts including the impact that the trees may have upon the proposal. The arborist may recommend mitigation strategies to minimise these impacts and help achieve a more harmonious juxtaposition between buildings and trees.

A1.3 Stage 3: Arboricultural Method Statement

This type of report specifies the measures necessary to protect trees against damage from construction activity. The Method Statement should be written in a manner that it may be conditioned and enforced by the local authority upon granting of planning permission. The site manager should be familiar with all aspects of the Method Statement and should ensure that all persons working on the site are aware of those aspects which appertain to their work. This includes service installation engineers and operators of plant machinery.

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Appendix 2: Explanation of Tree Data & Glossary

This section explains the terms used in the **Tree Data Schedule** (see Section 3 and Appendix 6).

A2.1 **General Observations**

Numbering System: Each item of vegetation has its own unique number prefixed by a letter such that T1=Tree 1, G2=Group 2, H3=Hedge 3 and

W4=Woodland 4, S5=Shrub 5.

Age Categories:

Young Usually less than 10 years old.

Significant future growth to be expected, both in height and crown spread (typically below 30% of life expectancy). Full height almost attained. Significant growth may be expected in terms of crown spread (typically 30-60% of life expectancy). Full height attained. Crown spread will increase but growth increments will be slight (typically 60% or more of life expectancy). Early-Mature Mature

A level of maturity whereby significant management may be required in order to keep the tree in a safe condition Over Mature

As for veteran except management is not considered worthwhile.

Common names and Latin names are given. Species:

Height: Measured from ground level to the top of the crown.

Stem Diameter: Taken at 1.5m above ground level where possible. On multi-stemmed trees this measurement may be taken at ground level, though

usually an indication of the number of stems and average diameter is given, e.g. 3 x 30cm.

Crown Height: Measured from ground level to the height at which the main crown begins. Where the crown is unbalanced it is measured on the

side deemed to be most relevant. This is usually the side facing the area of anticipated development.

Tree Diagram: This scaled drawing is computer generated based on measurements taken for stem diameter, crown height and spread, and overall

height. It is designed to help the reader rapidly assess the data. It is not an accurate representation of the form of the tree.

Crown Spread: Measured N. E. S & W. taken from the centre of the stem and usually rounded up to the nearest metre.

Observations: If a tree's position is considered to be relevant it will be commented upon (e.g. overhanging a children's play area). Tree form and

pruning history are also recorded along with an account of any significant defects. Defects and descriptive terms are dealt with in

more detail at the end of this section.

Recommendations Usually based on any defects observed and intended to ensure that the tree is in an acceptable condition.

Priority Scale: Depending upon the threat posed by the tree, and the likelihood of failure, recommendations should be carried out according to

the following priority scale:

Urgent To be carried out as soon as possible. Very High To be carried out within 1 month. To be carried out within 3 months High Moderate To be carried out within 1 year. To be carried out within 3 years.

An interval of 6 months, 1 year, 1.5 years or 3 years is allocated before the next inspection is due. Wherever practical, consideration Inspection Frequency:

should be given to seasonal changes so that deciduous trees are not always surveyed in winter when they have no leaves, or in

summer when leaves may obscure branches within the upper crown. An indication of growth rate and the tree's ability to cope with stresses:

Having above average vigour. High Moderate Having average vigour. Having below average vigour. Low

Very Low Tree is struggling to survive and may be dying.

Physiological Condition:

Vigour:

Good Healthy and with no symptoms of significant disease.

Fair Disease present or vigour is impaired.

Significant disease present or vigour is extremely low.

Very Poor Tree is dying.

Structural Condition:

Having no significant structural defects. Good

Fair Some defects observed though no high priority works are required. Poor Significant defects found. Tree requires monitoring or remedial works.

Very Poor Major defects which will usually require significant remedial works or tree removal.

Amenity Value:

Very High Exceptional specimen, observable by a large number of people. Attractive specimen, observable by a significant number of people. Moderate One of the above factors is not applicable.

Unattractive specimen or largely hidden from view. Low

The estimated number of years before the tree may require removal. Classified as (<10), (10-20), (20-40), or (40+). Life Expectancy:

Retention Category: These are explained in detail in Appendix 1.

Evaluation of Defects A2.2

Cavities, wounds, deadwood etc are all evaluated as follows:

Such that structural integrity is, or will become, compromised and the tree is, or will inevitably become, hazardous,

Significant A defect that may over time become a major defect, though not necessarily so. This will depend on the vigour of the tree and its

ability to deal with decay etc.

Minor A defect that is not likely to compromise the tree's structural integrity.

Crown Ref: 10510 Site: 34 Glenilla Road , Belsize Park

Date: 28th May 2020 Author: Emma Hoyle

General Glossary

Adaptive growth	In tree biomechanics, the process whereby wood formation is influenced both in quantity and quality by the action of gravitational forces and mechanical stresses on the cambial zone.
Aerobic	Conditions in which oxygen is freely available, or to biomechanical processes that depend on the presence of oxygen.
Anaerobic	A condition marked by the absence of oxygen; Generally such areas are unsuitable for normal life and growth of plant tissues. These sites tend to be populated by bacteria capable of surviving low oxygen conditions often associated with Slime Flux.
Arboriculture	The culture and management of trees as groups and individuals primarily for amenity and other non-forestry purposes.
Arborist	A person possessing the technical competence through experience and related training to provide management of trees or
	other woody plants in a landscape setting. Generally involved with the development or management of trees for visual amenity or land management rather than the growth of trees for product or profit.
Barrier zone	A layer within an annual increment of wood which contains abnormal xylem cells, laid down by the cambium in response to wounding or other trauma.
Body language	In trees, the outward display of growth responses and or deformation in response to mechanical stress.
Bole	Or Trunk, the main stem of a tree below its first major branch.
Bracket	A type of fruiting body produced by various fungal species, plate like to hoof like in shape and often a one sided attachment to the wood or bark.
Branch bark ridge	A ridged area located at the union of a branch to a trunk or stem.
Branch Collar	Trunk tissue that forms around the base of a branch between the main stem and the branch, or between a main branch and a lateral branch. As a branch decreases in vigour or begins to die, the collar usually becomes more pronounced and completely encircles the branch.
Brown Rot	Form of decay where cellulose is degraded, while lignin is only modified.
Buttress Root	Roots that emerge from the base of the tree stem, normally large and well developed that rapidly reduce in diameter to create the Root Plate this offers structural support for the tree. Buttress roots divide rapidly forming the connection between the sten and the transport roots.
Cabling Bracing	Installing cables within the crown of a tree to prevent collapse.
Callus	Undifferentiated cells often formed at the edges of recent injuries. This tissue quickly becomes differentiated, forming cells of the type characteristic of that position on the tree (e.g. forming wood, bark, roots, etc.) see wound response tissue. A thin layer of actively growing and dividing cells, located between the xylem (sapwood) and bark of a plant; the part
	responsible for radial growth of a tree stem or branch.
Canopy	The topmost layer of twigs and foliage in a woodland, tree or group of trees.
Canker	A localised area of dead bark and cambium on a stem or branch, caused by fungal or bacterial organisms, characterised by woundwood development on the periphery. This may be annual or perennial.
Cavity	An open and exposed area of wood, where the bark is missing and internal wood has been decayed and dissolved.
Chlorotic	Also Chlorosis. A condition of the plant marked by yellowing of normally green foliage, often indicating nutrient deficiency or plant dysfunction.
Clinometer	Devices that measures vertical angles, and provides direct height measurements of objects by triangulation.
Co-dominant	Are forked branches or trunks of nearly the same size in diameter and lacking a normal branch union.
stems/trunk	
Compacted soils	Soils in which the air-space (oxygen space) has been reduced or eliminated, reducing water infiltration and percolation, reducing root presence and inhibiting new root development.
Compartmentalisati	The physiological process that creates the chemical and mechanical boundaries that act to limit the spread of disease and decay organisms.
Compression Failure	Localized buckling of fibres and other longitudinal elements produced by compression of wood along the grain; compression failures sometimes develop in standing trees.
Compression	The ability of a material or structure to resist failure when subjected to compressive loading; measurable in trees using special
Strength	drilling devices
Compression Wood	Abnormal wood formed on the lower side of branches and curved stems, with physical properties different from normal wood.
Conservation Area	In Great Britain, designated areas of architectural or historical interest, in which there are special procedures for planning applications. Additionally tree works cannot generally be undertaken without prior notification (Currently 6 weeks) to the relevant local planning authority. See also Tree Preservation Orders.
Core Sample	A sample of wood extracted from a trunk or branch, using an increment borer tool. The resulting core can be analysed for characteristics of growth, wood strength, structure, decay, and for species identification.
Crotch	The union of two or more branches; the auxiliary zone between branches.
Crown	The upper canopy of a tree, including upper trunk, scaffold branches, secondary branches, stems and leaves.
Crown lifting /	Crown Lift The removal of the lowest branches, usually to a given height. It allows more residual light and greater clearance
raising	underneath for vehicles etc.
Crown reduction	The reduction of a tree's height or spread while preserving its natural shape.
Crown thinning	The removal of some of the density of a tree's crown, usually 5-25% allowing more light through its canopy and reducing wind resistance.
Deadwood (noun)	Deadwood is often present within the crown or on the stems of trees. It may be an indication of ill health, however, it may also indicate natural growth processes. If a target is present beneath the tree, deadwood may fall and cause injury or damage and should be removed, otherwise deadwood can remain intact for conservation purposes (insects, fungi, birds etc.).
Deadwood (verb)	The removal of dead branches from a tree's canopy, usually of a specified size (in diameter).
Decay	Progressive deterioration of organic tissues, usually caused by fungal or bacterial organisms, resulting in loss of cell structure, strength, and function. In wood, the loss of structural strength.
Decay Detection	The assessment of decay within a tree has been traditionally difficult, but recent advances have made it possible to achieve accurate representations of the internal section of a tree in both 2D and 3D, removing doubt over the condition of the tree and allowing accurate management decisions.
Defect	In relation to tree hazards, any feature of a tree which detracts from the uniform distribution of mechanical stress, or which makes the tree mechanically unsuited to its environment.
Defoliation	The losing of plants foliage.

Crown Ref: 10510 Site: 34 Glenilla Road , Belsize Park

Date: 28th May 2020 Emma Hoyle Author:

Dripline A Epicormic shoots Fa Failure In to alt Feeder Roots Fir Flush-Cut In Foliage Th Formative pruning Is is	projected line on the ground that corresponds to the spread of branches in the canopy; the farthest spread of branches. ast growing, weakly attached shoots/branches that often grow as a response to stress factors upon a tree or branch removal. It connection with tree hazards, a partial or total fracture within the wood tissue or loss of cohesion between roots and soil. (In that failure affected parts will snap or tear away completely, Partial failure there is a crack or deformation, which results in an attered distribution of mechanical stress. In efibrous Water and nutrient absorbing roots located in the outer root system. It trees and shrubs, a pruning cut close to the parent stem, which removes the branch bark ridge. In elive leaves or needles of the tree; the plant part primarily responsible for photosynthesis. In etrimming of a tree to remove weaknesses and irregularities which may lead to problems. The formative pruning operation aimed at reducing the otential for future weaknesses or problems within the tree's crown. In abnormal, disorganized growth of plant tissues, caused by parasitic or infectious organisms such as insects, fungi, bacteria, riviruses. It woody plants, any form of damage that destroys the bark and / or the Cambium all the way around the stem, branch or root, ormally resulting in death of the damaged section.
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Feeder Roots Fir Flush-Cut In Foliage Th Formative pruning Is	otal failure affected parts will snap or tear away completely, Partial failure there is a crack or deformation, which results in an itered distribution of mechanical stress. In fibrous Water and nutrient absorbing roots located in the outer root system. It rees and shrubs, a pruning cut close to the parent stem, which removes the branch bark ridge. In live leaves or needles of the tree; the plant part primarily responsible for photosynthesis. In the trimming of a tree to remove weaknesses and irregularities which may lead to problems. The formative pruning operation aimed at reducing the otential for future weaknesses or problems within the tree's crown. In abnormal, disorganized growth of plant tissues, caused by parasitic or infectious organisms such as insects, fungi, bacteria, reviruses. It woody plants, any form of damage that destroys the bark and / or the Cambium all the way around the stem, branch or root, formally resulting in death of the damaged section.
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Gall An	ormally resulting in death of the damaged section. woody plants, a root that grows across the buttress, or across other roots, eventually causing constriction of the radial
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-	rowth.
cre	ne incremental growth added as new annual ring develops each season over existing wood. This is seen as (growth) rings in coss-sections of wood.
(lo	n upwardly curved branch in which strong internal stresses may occur without the compensatory formation of extra wood ongitudinal splitting may occur in some cases).
	ner non functioning tissues that provide structural support to trunk.
by	relation to shrinkable clay soils, expansion due to rewetting of a volume of soil previously subjected to the removal or water y plant / trees following felling or root severance. Also in relation to root growth, the lifting of pavements and other structures y radial expansion. Also in relation to tree stability, the lifting of one side of a wind rocked root plate.
	chemical compound that causes the death of a plant.
tig	ark that becomes embedded in a crotch between branch and trunk or between co-dominant stems, usually found in narrow or ght crotches, and causes a weak structure.
	tool that cuts and extracts a narrow cylinder of wood from a tree for analysis of the wood tissue and growth increments.
	ne primary terminal shoot or trunk of a tree.
	large lateral branch growing from the main trunk or from another larger branch. ften the result of poor pruning practices; the main leader or branches are largely devoid of side branches, growth is restricted
_	the end of branches and is likely to suffer damage through end loading.
	trees, a general term that related to the removal of branches from a tree.
-	ue to the relative life span of trees in relation to our own, long-term monitoring provides a valuable insight to the health of ees, identifying decline and or stabilisation and or improvement.
	material laid over the root system of a tree to help conserve moisture within the soil. Additionally it may help control the evelopment of weeds close to the tree.
	mass of growing filaments (hyphae) formed by fungi.
	ne symbiotic relationship between roots and certain beneficial fungi. Mycorrhizae are the combined root / fungal growth.
	ne general tern of wood, cambium and bark that develop around the site of a wound on a woody plant microorganism that causes diseases within another organism.
	rincroorganism that causes diseases within another organism. The principle conductive tissue that the products of Photosynthesis are transported around the plant
	re process were light energy is used to create energy (Carbohydrate) for use within the plant.
	term for a pollarded tree.
Pollard head The	e swollen section of branch / stem that forms behind the pollarding cut.
	e complete or partial removal of the crown of a young tree so as to encourage the development of numerous branches either r amenity or historically as fodder, repeated management is required cyclically to maintain the feature
	elective removal of woody plant parts of any size, using saws, Loppers, Secateurs, or other pruning tools.
ad	ood with distinctive anatomical characteristics, formed in parts of leaning or crooked stems and in branches to provide ditional strength / support. In hardwoods, tension wood usually forms. In conifers, compression wood is usually found.
an	zone normally darker than surrounding wood that denoted the boundary often a defensive one between functional sapwood and dysfunctional or decaying wood.
Remedial pruning Th	ne raising or lowering of a soil profile from its original grade. he removal of old stubs, deadwood, epicormic growth, rubbing or crossing branches and other unwanted items from the tree's rown.
	evasive decay detection technique whereby the resistance offered by the timber to a spinning probe is measured and plotted.
	tree body language, a long narrow, axial protuberance which often over lays a crack.
	rtificial Girdling of the stem, to result in the death of a tree. May be used in habitat creation were the retention of dead anding trees is required.
-	raditionally, this has relied upon the Installation of steel rods or bolts through the stems or limbs, to reduce twisting or
	olitting of the wood. The installation of such features does require legal interpretation. oth Buildings and services can benefit from the installation of root barriers to protect a soil volume from the ingress of roots.
	the basal area of the tree; transition zone from trunk to root. Also sometimes called trunk flare.
	the primary support area for the tree; an area of the root system close to the base that structurally anchors the tree to the soil.
	ther a general term for decay within the wood of the lower stem / buttress roots, or a disease in which the fine roots are lled.
-	ne portion of the tree containing the root organs, including buttress roots, transport roots, and fine absorbing roots; all nderground parts of the tree.
	he area and volume of soil around the tree in which roots are expected. May extend to three or more times the branch spread f the tree, or several times the height of the tree.

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in a healthy tree. See heartwood Scaffold limbs / Scaffold limbs / Scaffold Branches Senescent A decline in growth and vigour due to age or stress factors. Shrub A woody plat that branches at or close to the ground level and so does not have a single stem. Relating to a toxic condition from the spreading of bacteria or their products from a source of infection; characterized by malodorous gases, or salt deposits upon the bark. If these products enter the sap stream, localised vessel necrosis can resu usually associated with anaerotic conditions. Soit Rot A kind of wood decay, were a fungl degrades cellulose within the cell wall, without causing overall degradation. The compression of soil, causing a reduction of pore space and na increase in the density of the soil. Air is squeezed out and untrients become locked. Tree roots cannot grow in compacted soil. Sonic Decay Detection and a tomography picture representing the liner stem is produced. In a tree, a state of dieback were dead branches protrude beyond the current living crown. In the compression of soil, causing a reduction of pore space and na increase in the density of the soil. Air is squeezed out and untrients become locked. Tree roots cannot grow in compacted soil. Sonic Decay Detection and a tomography picture representing the liner stem is produced. In a tree, a state of dieback were dead branches protrude beyond the current living crown. In the provincian of the provincian produced in a tree, a state of dieback were dead branches protrude beyond the current living crown. In the provincian of the provincian prov	Sail Area	That area or the tree subjected to wind load.
Senescent A decline in growth and vigour due to age or stress factors. Shrub A woody plat that branches at or close to the ground level and so does not have a single stem. Relating to a toxic condition from the spreading of bacteria or their products from a source of infection; characterized by malodorous gases, or salt deposits upon the bark. If these products enter the sap stream, localised vessel necrosis can result usually associated with anserobic conditions. Soft Rot A kind of wood decay, were a fungl degrades cellulose within the cell wall, without causing overall degradation. The compression of soil, causing a reduction of pore space and an increase in the density of the soil. Air is squeezed out and nutrients become locked. Tree roots cannot grown in compacted soil. Sonic Decay Detection The compression of soil, causing a reduction of pore space and an increase in the density of the soil. Air is squeezed out and nutrients become locked. Tree roots cannot grown in compacted soil. Non invasive method whereby sound waves are passed through the tree and the speed is measured. Slow speeds indicate of and a tomography picture representing the inner stem is produced. In a tree, a state of dieback were dead branches protrude beyond the current living crown. In plant physiology, conditions were one or more physiological functions Are not working within normal parameters. The removal of a tree stump using a specialist grinding machine. In relation to vegetation, the removal of water by plant growth resulting in localised shrinkage in the soil volume. Same as sprout. Suppressed Trees which are dominated by surrounding vegetation and whose crown development is restricted from above. Affecting the whole plant or organism. A systemic compound is carried throughout the entire plant to all parts through the vascular system. Any person or object within reach of a falling tree or part of a tree that may be injured or damaged. Target Pruning The pruning of a branch were the wound affects only branch and the	Sapwood	 Xylem wood tissue, usually light in colour, representing the outer growth rings of the wood. Usually living, reactive wood tissue, in a healthy tree. See heartwood
Sime Flux		_ '
Relating to a toxic condition from the spreading of bacteria or their products from a source of infections, characterized by malodorous gazes, or said deposits upon the bark. If these products enter the sap stream, localised vessel necrosis can result usually associated with anaerobic conditions. A kind of wood decay, were a fungit degrades cellulose within the cell wall, without causing overall degradation. The compression of soil, causing a reduction of pore space and an increase in the density of the soil. Air is squeezed out and nutrients become locked. Tree roots cannot grow in compacted soil. Sonic Decay Non invasive method whereby sound waves are passed through the tree and the speed is measured. Slow speeds indicate of and a tomography picture representing the inner stem is produced. Stag Heading In a tree, a state of dieback were dead branches protrude beyond the current living crown. In plant physiology, conditions were one or more physiological functions Are not working within normal parameters. The removal of a tree stump using a specialist grinding machine. In relation to vegetation, the removal of water by plant growth resulting in localised shrinkage in the soil volume. Subsidence Subjecter Same as sprout. Affecting the whole plant or organism. A systemic compound is carried throughout the entire plant to all parts through the vascular system. Any person or object within reach of a falling tree or part of a tree that may be injured or damaged. Any person or object within reach of a falling tree or part of a tree that may be injured or damaged. Any person or object within reach of a falling tree or part of a tree that may be injured or damaged. Any person or object within reach of a falling tree or part of a tree that may be injured or damaged. Traget Pruning The pruning of a branch were the wound affects only branch material, often result in a target shaped wound. Reaction wood typically formed on the upper side of limbs or curved stems; characterized by lack of cell wall lignif	Senescent	A decline in growth and vigour due to age or stress factors.
malodorous gases, or salt deposits upon the bark. If these products enter the sap stream, localised vessel necrosis can resul usually associated with maenobic conditions. A kind of wood decay, were a fungl degrades cellulose within the cell wall, without causing overall degradation. The compression of soil, causing a reduction of pore space and an increase in the density of the soil. Air is squeezed out and nutrients become locked. Tree roots cannot grow in compacted soil. Sonic Decay Non invasive method whereby sound waves are passed through the tree and the speed is measured. Slow speeds indicate of and a tomography picture representing the inner stem is produced. In a tree, a state of dieback were dead branches protrude beyond the current living crown. In plant physiology, conditions were one or more physiological functions Are not working within normal parameters. In plant physiology, conditions were one or more physiological functions Are not working within normal parameters. In plant physiology, conditions were one or more physiological functions Are not working within normal parameters. In plant physiology, conditions were one or more physiological functions Are not working within normal parameters. In plant physiology, conditions were one or more physiological functions Are not working within normal parameters. In plant physiology, conditions were one or more physiological functions Are not working within normal parameters. The removal of a tree stump using a specialist grinding machine. In read that the soil volume. Same as sprout. The removal of a tree stump using a specialist grinding machine. In read that the soil volume. Same as sprout. Trees which are dominated by surrounding vegetation and whose crown development is restricted from above. Systemic Are yet which are dominated by surrounding vegetation and whose crown development is restricted from above. Systemic Target Tar	Shrub	A woody plat that branches at or close to the ground level and so does not have a single stem.
The compression of soil, causing a reduction of pore space and an increase in the density of the soil. Air is squeezed out and nutrients become locked. Tree rots cannot grow in compacted soil. Sonic Decay Non invasive method whereby sound waves are passed through the tree and the speed is measured. Slow speeds indicate of and a tomography picture representing the inner stem is produced. Stag Heading In a tree, a state of dieback were dead branches protrude beyond the current living crown. In plant physiology, conditions were one or more physiological functions are not working within normal parameters. Stump Grinding The removal of a tree stump using a specialite grinding machine. Subsidence In relation to vegetation, the removal of water by plant growth resulting in localised shrinkage in the soil volume. Subscer Same as sprout. Suppressed Trees which are dominated by surrounding vegetation and whose crown development is restricted from above. Systemic Affecting the whole plant or organism. A systemic compound is carried throughout the entire plant to all parts through the vascular system. Any person or object within reach of a falling tree or part of a tree that may be injured or damaged. Target Puning The puning of a branch were the wound affects only branch material, often result in a target shaped wound. Reaction wood typically formed on the upper side of limbs or curved stems; characterized by lack of cell wall lignifications (higher ratios of cellulose to lignin). Tight Union / Tight Crotch Also, narrow crotch. A crotch with a narrow angle between branches, often having included bark. Topography The comparison of sound or stress waves through the tree allows the creation of a 2D or 3D representation of the internal structure of a stem or branch section and highlights areas of damage. Virtually non-injurious. Topography The comfiguration of surface features, including the vertical and horizontal relations for the protein configuration of surface features, including the vertical and	Slime Flux	malodorous gases, or salt deposits upon the bark. If these products enter the sap stream, localised vessel necrosis can result,
nutrients become locked. Tree roots cannot grow in compacted soll. Non invasive method whereby sound waves are passed through the tree and the speed is measured. Slow speeds indicate of and a tomography picture representing the inner stem is produced. In a tree, a state of dieback were dead branches protrude beyond the current living crown. In path physiology, conditions were one or more physiological functions are not working within normal parameters. In path physiology, conditions were one or more physiological functions are not working within normal parameters. In path physiology, conditions were one or more physiological functions are not working within normal parameters. In path physiology, conditions were one or more physiological functions are not working within normal parameters. In path physiology, conditions were one or more physiological functions are not working within normal parameters. In path physiology, conditions were one or more physiological functions are not working within normal parameters. In path physiology, conditions were one or more physiological functions are not working within normal parameters. In path physiology, conditions were one or more physiological functions and whose crown development is restricted from above. Systemic Suppressed Trees which are dominated by surrounding vegetation and whose crown development is restricted from above. In part of a tree that may be injured or damaged. In graget Pruning Target Pruning Target Pruning Target Pruning Tension Wood The pruning of a branch were the wound affects only branch material, often result in a target shaped wound. Reaction wood typically formed on the upfects only branch material, often result in a target shaped wound. Reaction wood typically formed on the upfects only branch material, often result in a target shaped wound. Reaction wood typically formed on the upfects on the pruning of a branch were the wound affects only branch material, often result in a target shaped wound. Reaction wood typically f	Soft Rot	A kind of wood decay, were a fungi degrades cellulose within the cell wall, without causing overall degradation.
Detection and a tomography picture representing the inner stem is produced. In a tree, a state of dieback were dead branches protrude beyond the current living crown. In a tree, a state of dieback were dead branches protrude beyond the current living crown. In plant physiology, conditions were one or more physiological functions Are not working within normal parameters. In plant physiology, conditions were one or more physiological functions Are not working within normal parameters. In plant physiology, conditions were one or more physiological functions Are not working within normal parameters. In plant physiology, conditions were one or more physiological functions Are not working within normal parameters. In plant physiology, conditions were one or more physiological functions Are not working within normal parameters. In plant physiology, conditions were one or more physiological functions Are not working within normal parameters. In plant physiology, conditions were one or more physiological functions Are not working within normal parameters. In plant physiology, conditions were one or more physiological functions are not parameters. In purple call the physiology conditions are set which are executed within normal parameters. In purple call the parameters. In purple call the parameters. In a tree that may be injured or damaged. In a tree that may be injured or damaged. In a tree that may be injured or damaged. In a tree that may be injured or damaged. In a tree that may be injured or damaged. In a tree that may be injured or damaged. In pruning of a branch were the wound affects only branch material, often result in a target shaped wound. Reaction wood typically formed on the upper side of limbs or curved stems; characterized by lack of cell wall lignifications (higher ratios of cellulose to lignin). Also, narrow crotch. A crotch with a narrow angle between branches, often having included bark. In pruning of a branch were the wound affects only branches, or	Soil Compaction	The compression of soil, causing a reduction of pore space and an increase in the density of the soil. Air is squeezed out and nutrients become locked. Tree roots cannot grow in compacted soil.
In a tree, a state of dieback were dead branches protrude beyond the current living crown. In plant physiology, conditions were one or more physiological functions Are not working within normal parameters. Stump Grinding The removal of a tree stump using a specialist grinding machine. In relation to vegetation, the removal of water by plant growth resulting in localised shrinkage in the soil volume. Sucker Same as sprout. Suppressed Trees which are dominated by surrounding vegetation and whose crown development is restricted from above. Affecting the whole plant or organism. A systemic compound is carried throughout the entire plant to all parts through the vascular system. Any person or object within reach of a falling tree or part of a tree that may be injured or damaged. Target Pruning Target Pruni	Sonic Decay	Non invasive method whereby sound waves are passed through the tree and the speed is measured. Slow speeds indicate decay
In plant physiology, conditions were one or more physiological functions Are not working within normal parameters.	Detection	and a tomography picture representing the inner stem is produced.
The removal of a tree stump using a specialist grinding machine. In relation to vegetation, the removal of water by plant growth resulting in localised shrinkage in the soil volume. Sucker Same as sprout. Trees which are dominated by surrounding vegetation and whose crown development is restricted from above. Affecting the whole plant or organism. A systemic compound is carried throughout the entire plant to all parts through the vascular system. Any person or object within reach of a falling tree or part of a tree that may be injured or damaged. Any person or object within reach of a falling tree or part of a tree that may be injured or damaged. Target Pruning The pruning of a branch were the wound affects only branch material, often result in a target shaped wound. Reaction wood typically formed on the upper side of limbs or curved stems; characterized by lack of cell wall lignifications (higher ratios or cellulose to lignin). Also, narrow crotch. A crotch with a narrow angle between branches, often having included bark. Tree of a term or branch section and highlights areas of damage. Virtually non-injurious. Topping The comfiguration of surface features, including the vertical and horizontal relationships of the ground and other features. Cutting large limbs back severely, without regard to form or habit of the tree. Cuts are usually made between lateral branch of as tleast 75mm. Tree Preservation Order Tree Preservation Order Trunk Flare The basal area of the trunk that flares or widens, and merges with the main roots. See root collar Veteran Tree Veteran trees are often found in large parks or estates and commonly affected by extensive decay or have been subject to extensive works to a tree. The basal area of the trunk that flares or widens, and merges with the main roots. See root collar Veteran tree Veteran trees are often found in large parks or estates and commonly affected by extensive decay or have been subject to extensive works. These trees are retained for historical impo	Stag Heading	In a tree, a state of dieback were dead branches protrude beyond the current living crown.
Subsidence In relation to vegetation, the removal of water by plant growth resulting in localised shrinkage in the soil volume.	Stress	In plant physiology, conditions were one or more physiological functions Are not working within normal parameters.
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Crown Ref: 10510 Site: 34 Glenilla Road, Belsize Park

Author: Emma Hoyle Date: 28th May 2020

Appendix 3: Survey Methodology

Ground level visual surveys are carried out using the *Visual Tree Assessment* technique described by Mattheck and Broeler (1994) and endorsed by the Arboricultural Association (LANTRA Professional Tree Inspection course, 2007).

Structural condition is assessed by inspecting the stem and scaffold branches from all angles looking for weak branch junctions or symptoms of decay. Particular attention is paid to the stem-base. Cavities are explored using a metal probe in order to assess the extent of any decay. If this is not possible further inspection is recommended in the form of a climbed inspection or using specialist decay detection equipment.

The physiological condition is assessed by inspecting the stem, branches and foliage for symptoms of disease. The overall vigour of the tree is also taken into account.

Where significant defects are observed, recommendations are made according to a scale of priority in order to reduce the likelihood of structural failure. The position of the tree and its potential targets are taken into account.

Measurements are obtained using a diameter tape, clinometer, distometer and loggers tape. Where this is not practical measurements are estimated.

Some trees are surveyed as groups, though this is usually avoided close to areas likely to be developed.

Finally, a Retention Category is allocated as described in Appendix 1.1.1.

Crown Ref: 10510 Site: 34 Glenilla Road, Belsize Park

Author: Emma Hoyle Date: 28th May 2020

Appendix 4: Author's Qualifications

Qualifications & Experience of Ivan Button N.C.H. (Arb), FDSc (Arb), BSc (Hons), P.G.C.E., M. Arbor. A.

Between 1983 and 1995 Ivan worked primarily within the construction industry and received training in a broad range of practical building skills and general construction principles. During this time he obtained a BSc (Hons) at Leeds University followed by a P.G.C.E at The University of Wales.

In 1995, Ivan obtained a NCH (Arboriculture) at the University of Lincoln and became a member of the Arboricultural Association. He then worked for an Arboricultural Consultancy for one year before establishing a tree surgery and landscaping business in 1998. In 2005 Ivan commenced full time employment with a leading Arboricultural Association approved consultancy and soon adopted a senior role responsible for five consultants.

He obtained a FDSc in arboriculture at the University of Lancashire, which he passed with distinction and is now a Director and Principal Consultant of Crown Consultants Ltd. He is accredited as a LANTRA *Professional Tree Inspector*. A qualification produced in association with the Arboricultural Association and generally recognised as appropriate for all levels of tree inspection.

Ivan is a professional member of the Arboricultural Association, the International Society of Arboriculture and the Consulting Arborist Society

Ivan is trained and licensed in QTRA (Quantified Tree Risk Assessment). He has undertaken professional expert witness training provided by Bond Solon and has been registered as a Sweet and Maxwell Checked Expert Witness from 2008-2017, after which the service was no longer offered.

Throughout 2009 acted as the principal Tree Officer for Barnsley Metropolitan Borough Council.

Ivan has produced several hundred Arboricultural Reports for the purposes of Development, Safety, Management, Mortgage, Subsidence, Mitigation and Litigation.

Qualifications & Experience of Emma Hoyle FDSc (Arboriculture), ED (Forestry & Arboriculture), M. Arbor. A.

Emma is a qualified Arboricultural Consultant educated to Level 5 in Arboriculture at Askham Bryan College and is a professional member of the Arboricultural Association. She has worked for Crown Consultants since 2015 and has since written numerous reports relating to all aspects of arboriculture including; planning and development, vegetation related subsidence, tree preservation orders and tree risk assessment. Emma regularly attends seminars and events in order to keep abreast with current knowledge and best practise in Arboriculture.

Prior to becoming an arboricultural consultant, Emma worked for two reputable tree surgery firms from 2008 and became an NPTC Qualified tree surgeon after completing a Level 3 Extended Diploma in Forestry and Arboriculture at Askham Bryan College. Emma also has experience in other areas of arboriculture such as forest clearance, tree planting, tree maintenance and landscaping.

Qualifications & Experience of Joe Taylor - MArborA, FdSc (Arboriculture)

Joe began his career in Arboriculture as a tree surgeon/climber. During his time as a tree surgeon, Joe has achieved City & Guilds NPTC qualifications in Chainsaw Maintenance and Cross Cutting, Tree Climbing and Rescue, Safe Use of Manually Fed Wood-chipper and Supporting Colleagues Undertaking Tree Related Operations.

Joe obtained a Foundation Degree in Arboriculture at Askham Bryan College in 2015 which he passed with merit. Joe is a professional member of the Arboricultural Association, the International Society of Arboriculture and the Royal Forestry Society and regularly attends industry related seminars in order to keep abreast of industry best practice.

Studying at Askham Bryan College reinforced Joe's passion for trees and drove his enthusiasm to learn more. Learning how trees interact with their surrounding environment and their importance within our urban and rural landscapes highlighted an interest in pursuing a career in consultancy.

Since working for Crown Consultants Joe has undertaken numerous surveys and produced numerous reports for the purpose of planning (BS 5837), tree condition surveys, subsidence risk assessments, root surveys and decay detection investigations.

Crown Ref: 10510 Site: 34 Glenilla Road, Belsize Park

Author: Emma Hoyle Date: 28th May 2020

Appendix 5: Further Information

Building Near Trees - General

National Joint Utilities Group publication # 10 (1995), Guidelines for the Planning, Installation and Maintenance of Utility Services in Proximity to Trees. Downloadable at www.njug.demon.co.uk/pdf/NJUG%20Publication10.pdf

NHBC Standards Chapter 4.2., Trees and Buildings.

Horticulture LINK project 212. (University of Cambridge, 2004), Controlling Water Use of Trees to Alleviate Subsidence Risk.

Tree Planting and aftercare

See www.trees.org.uk/leaflets.php# for downloadable leaflets on selecting a garden tree, planting, aftercare and veteran tree management.

British Standards

BS 5837: 2012. Trees in Relation to Design, Demolition and Construction – Recommendations.

Bs 3998: 2010. Recommendations for Tree Work.

BS 3936: 1992. Nursery Stock. Part 1: Specification for Trees and Shrubs.

BS 3936: 1992. Nursery Stock. Part 10: Specification for Groundcover Plants.

BS 4043: 1989. Transplanting Root-balled Trees.

BS 8004: 1986. Foundations.

BS 8103: 1995. Structural design of Low-Rise Buildings.

BS 8206: 1992. Lighting for Buildings.

BS 8545:2014. Trees: From nursery to independence in the landscape – Recommendations

BS 3882: 2007. Topsoil.

BS 4428: 1989. General Landscaping Operations (excluding hard surfaces).

Permission to do Works to Protected Trees / Tree Law

Forestry Commission (Edinburgh, 2003), Tree Felling – Getting Permission. Country Services Division - Forestry Commission. Downloadable at www.forestry.gov.uk/website/pdf.nsf/pdf/wgsfell.pdf/\$FILE/wgsfell.pdf

Transport and the Regions (Department of the Environment, 2000), Tree Preservation Orders, A Guide to the Law and Good Practice. Downloadable at www.communities.gov.uk/publications/planningandbuilding/tposguide

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

Communities and Local Government website with numerous downloadable documents, from: http://www.communities.gov.uk/planningandbuilding/planning/treeshighhedges/

Lighting Levels

P.J. Littlefair, B.R.E. 209: Site layout planning for daylight and sunlight A guide to good practice. B.R.E. Bookshop, London.

British Standards Institution. Code of practice for day lighting. British Standard BS 8206: Part 2 (1992).

Chartered Institution of Building Services Engineers. Applications manual: Window Design (London, 1987).

NBA Tectonics. A study of passive solar housing estate layout. ETSU Report S-1126. Harwell, Energy Technology Support Unit (1988).

I.P. Duncan; D. Hawkes, Passive solar design in non-domestic buildings. ETSU Report S-1110. Harwell, Energy Technology.

P. J. Littlefair, Measuring Daylight, BRE Information Paper 23/93 f3.50. (Advises on measuring daylight under the real sky or an artificial sky, allowing for the changing nature of sky light).

High Hedges

Communities and Local Government website with numerous downloadable documents, from: http://www.communities.gov.uk/planningandbuilding/planning/treeshighhedges/

Tree Specific Websites

www.crowntrees.co.uk Crown Consultants site containing useful information

www.trees.org.uk Arboricultural Association

www.rfs.co.uk Royal Forestry Society of England, Wales and N. Ireland

www.treehelp.Info The Tree Advice Trust www.woodland-trust.org.uk The Woodland Trust www.treecouncil.org.uk The Tree Council

Crown Ref: 10510 Site: 34 Glenilla Road, Belsize Park

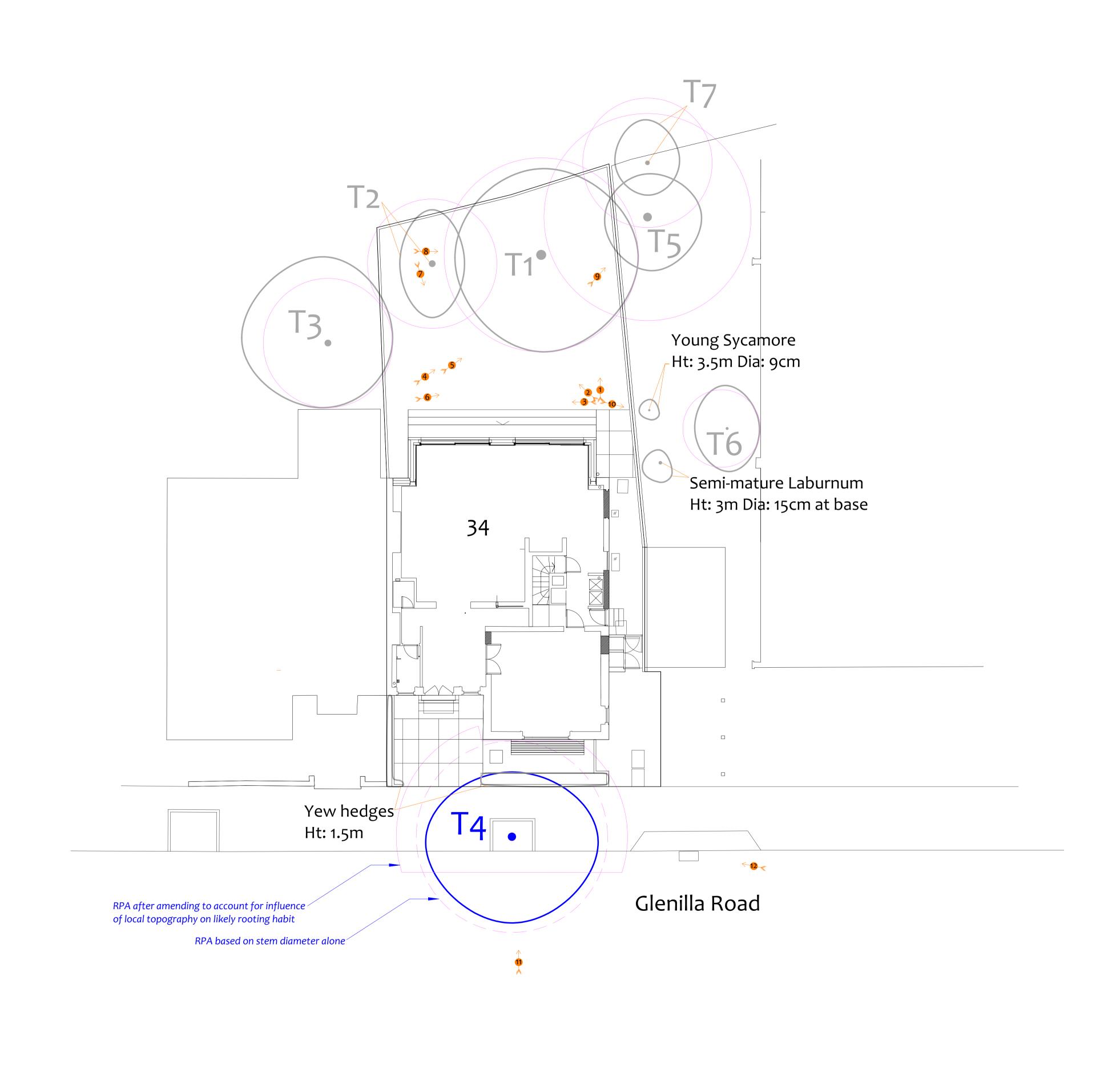
Author: Emma Hoyle Date: 28th May 2020

Appendix 6: Tree Data Schedule and Site Plan(s)

The Tree Data Schedule and any drawings accompanying this report follow this page.

They are also provided as separate documents for ease of printing and screen viewing.

nce oup		(m)	t (m)	(cm)		rown ead (m)		Scaled Tree Diagram (m)			Recomme		Vigour	Amenity Value
Reference G = Group H = Hedge	Age & Species		es (E) (Crown Scaled Tree Diagram (m) Notes N N Notes		Notes	(Independent of any development proposals)		Physiological Condition	Life Expectancy (yrs)					
L 0 ±			ວັ	Ö		S	9	9			Priority	Inspect Freq (yrs)	Structural Condition	
	Early-Mature						25						Moderate	Low
T1	Cherry 6 3 45 @ Base 4		3 45 @			4.5 4	-		Form: History:	Twin-stemmed at 1m with a balanced crown. Multiple pruning wounds due to crown reduction.	No action required.		Fair	10-20
	Prunus sp.			base		4	-		Defects:	No significant defects observed.	n/a		Fair	C
	Early-Mature						[25				II/d	3		
						2.5	l		Form:	Multi-stemmed at 1.5m with a balanced crown.			Moderate	Low
T2	Apple	4.5	3	30 @ Base	4.5	1.5			History:	Multiple pruning wounds due to crown reduction.	No action	required.	Fair	20-40
	Malus sp.			Dase		2.5	-		Defects:	No significant defects observed.			Fair	
	Maius sp.						Lo				n/a	3	ı alı	
	Semi-Mature						25		Position:	Situated on third party land.			Moderate	Low
Т	Cherry	_		30 @		3	-		Form:	Multi-stemmed specimen.	No action	required.	Caad	20.40
T3		5	2	Base	3	4	1		History: Defects:	Multiple pruning wounds due to crown reduction. No significant defects observed.			Good	20-40
	Prunus sp.					4		0	Other: Limited inspection, dimensions estimated.	n/a	3	Fair	C	
	Semi-Mature						[25						Madayata	الناء ال
	Whitebeam					4		-	Position: Street tree. Form: Single stemmed and vertical with a balanced crown.	No action required.		Moderate	High	
T4	Sorbus aria.	7	2.5	37	4	3	-	-	Form: Single stemmed and vertical with a balanced crown. History: No evidence of significant pruning.	action required		Good	20-40	
							3	-		Defects:	No significant defects observed.	7/2		Good
	Carri Matura						_0 Γ25				n/a	3		
	Semi-Mature					2.5							Moderate	Moderate
T5	Lawson Cypress		ess 2.5 2.5 2 2 39 2.5 2		l		Form: History:	Single stemmed and vertical with a narrow, upright habit. No evidence of significant pruning.	No action required.		Good	40+		
. ,	Chamaecyparis		_		2.5	2			Defects:	No significant defects observed.				
	lawsoniana.						o				n/a	3	Good	C +
	Semi-Mature						[25						Moderate	Low
	Cherry					2	-		Form:	Single stemmed and vertical with a compact crown.	No action	required.		
Т6	,	6	3	12	1.5	1.5	; 		History:	No evidence of significant pruning. No significant defects observed.		•	Good	20-40
	Prunus sp.					2			belects. No significant defects observed.	no significant defects observed.	n/a		Good	C
	Semi-Mature						[25				n/a	3		
		Form: Multi-stemmed at ground level with a poorly formed crown.					Moderate	Low						
T ₇	Holly		3	20	1.5	1.5			History: Defects:	No evidence of significant pruning. No significant defects observed. Ivy prevented detailed inspection.	No action	required.	Fair	10-20
	Ilex aquifolium.					2	-		Other:	Poor specimen. Four stems with actual diameters of 10, 6, 9 and 14cm.			Fair	
	nex aquironum.						Lo				n/a	3	I all	





Tree Constraints Plan



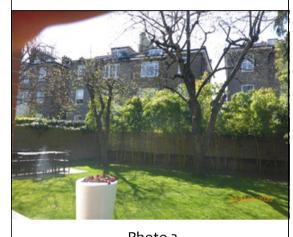








Photo 5

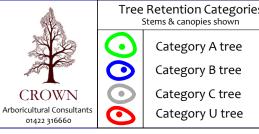


Photo 6

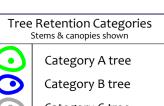
See the accompanying report for more photographs

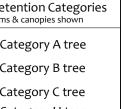
Drawing No:	CCL 10510 / TCP Rev: 1	
Title:	Tree Constraints Plan (Existing Layout)	
Site:	34 Glenilla Road NW3 4AN	
0 	5	Arbo

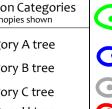


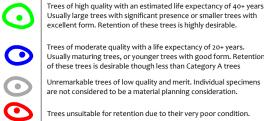


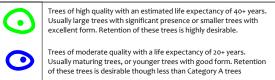










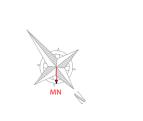


Traa	Const	train	tc [Olar	_
1166	COHS	liaiii	(2)	lai	

BS 5837 Root Protection Area (radius = 12xstem diameter)	
Root Protection Area needing amendment due to site conditions, e.g. presence of exising road or building.	7
Root Protection Area having been amended to account for for site conditions	

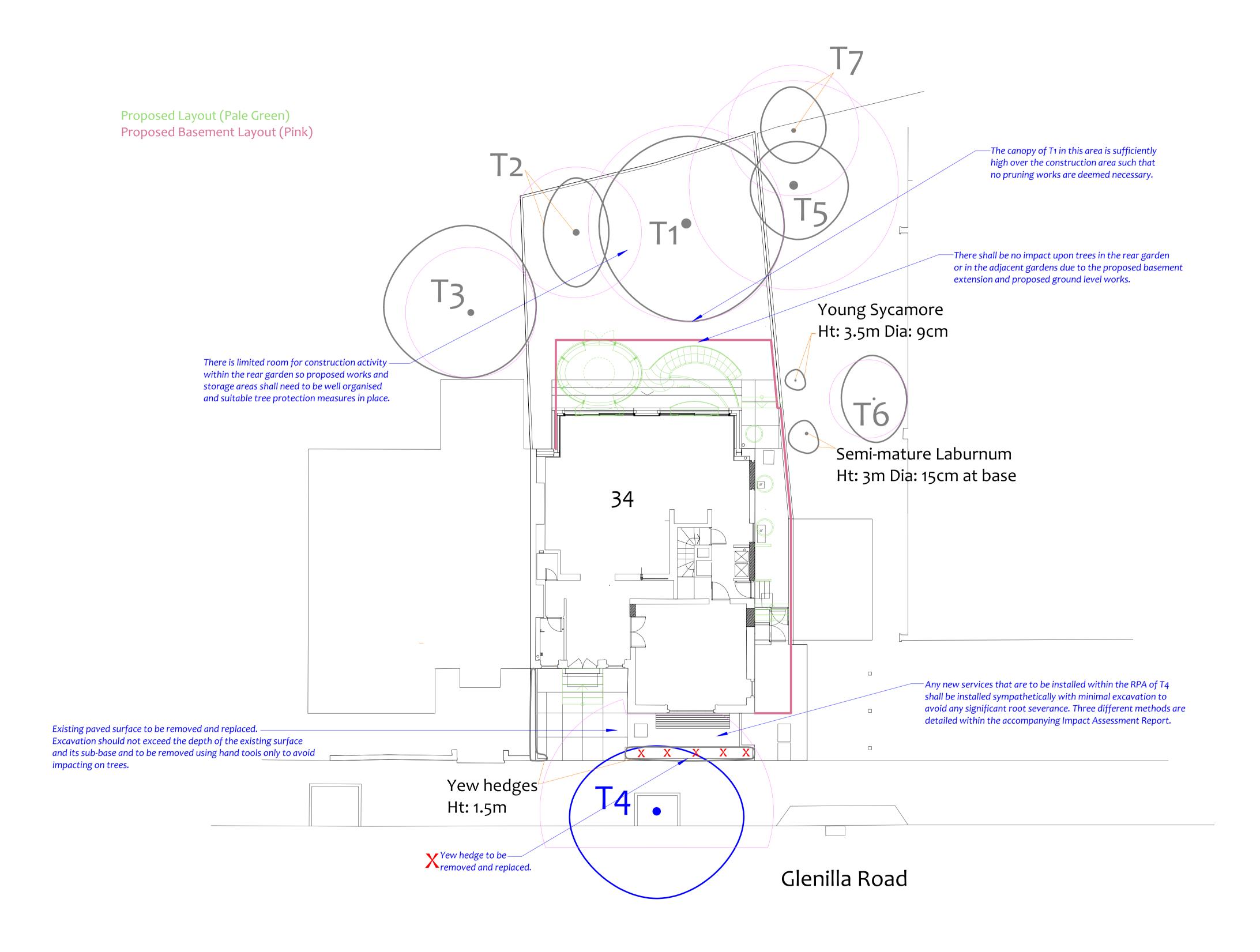
= Tree No 1 G2 = Group No 2 H3 = Hedge No 3

	Tree Ref.	Species	Height (m)	Root Protection Area				
	iiee kei.	Species	neight (III)	Radius (m)	m²	Square (m)		
times	T1	Cherry	6	4.5	64	8.0		
ate N	T2	Apple	4.5	3.0	28	5.3		
ecially ot	T3	Cherry	5	3.0	28	5.3		
	T4	Whitebeam	7	4.4	62	7.9		
	T5	Lawson Cypress	12	4.8	72	8.5		
	T6	Cherry	6	1.8	10	3.2		
	T7	Holly	7	3.0	28	5.3		



Impact Assessment Plan

(Existing Layout with Proposals Overlaid)

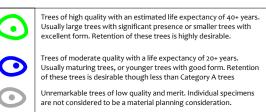


Drawing No:	CCL 10510	/ IAP Rev: 1	
Title:	Impact Assessment Plan (Existing Layout with Proposals Overlaid)		
Site:	34 Glenilla Road, London, NW3 4AN	I	

Arboricultural Consultants 01422 316660 Category U tree

Tree Retention Categories Stems & canopies shown Category A tree Category B tree Category C tree

Trees unsuitable for retention due to their very poor condition.



Impact Assessment Plan

(Existing Layout with Proposals Overlaid)

	BS 5837 Root Protection Area (radius = 12xstem diameter)	
	Root Protection Area needing amendment due to site conditions, e.g. presence of exising road or building.	X
7	Root Protection Area having been amended to account for for site conditions	X

T1 = Tree No 1 G2 = Group No 2 H3 = Hedge No 3

Tree to be removed to facilitate the proposal Tree to be removed due to its low quality Proposed pruning

	MN = Measured North:	Tree Ref.	Species	Heig
measured to an approxim defined by site features. Often more accurate, esp	Canopy spreads are sometimes	T1	Cherry	
	measured to an approximate N	T2	Apple	4
		T3	Cherry	
	where rows of trees are not	T4	Whitebeam	
	aligned N-S or E-W.	T5	Lawson Cypress	
		T6	Cherry	
		T7	Holly	