

# BS 5837 Arboricultural Report

& Impact Assessment



at  
126 St. Pancras Way  
LONDON  
NW1 9NB

Dated  
14<sup>th</sup> March 2024



**CROWN**  
Tree Consultancy

Branching out through England and Wales

# Contents

<b>1.</b>	<b>Introduction</b>	<b>3</b>
1.1.	Instruction	3
1.2.	Purpose of this Report	3
1.3.	Survey Details	3
1.4.	Author	3
<b>2.</b>	<b>Site Overview</b>	<b>4</b>
2.1.	Brief Site Description	4
2.2.	Coordinates	4
2.3.	Survey Extent	4
<b>3.</b>	<b>Vegetation Overview (independent of proposals)</b>	<b>5</b>
3.1.	Preliminary Management Recommendations	5
3.2.	Future Inspections	5
3.3.	Species Present – Additional Information	5
<b>4.</b>	<b>Local Geology and Soils</b>	<b>6</b>
4.1.	Desktop Research	6
4.2.	Site Investigations	6
4.3.	Conclusion and Relevance	6
<b>5.</b>	<b>Statutory Protection – TPOs and Conservation Area Status</b>	<b>7</b>
5.1.	Desktop Research	7
5.2.	Felling Licences	7
<b>6.</b>	<b>Planning Policy Context</b>	<b>8</b>
6.1.	National Policy	8
6.2.	Regional Policy	9
6.1.	Camden Local Policy	10
<b>7.</b>	<b>Arboricultural Impact Assessment</b>	<b>12</b>
7.1.	Overview	12
7.2.	Tree Removal	12
7.3.	Mitigation Planting	12
7.4.	Impact on Tree Canopies	13
7.5.	Impact on Tree Roots	13
7.6.	Waste and Materials Storage	13
7.7.	Cabins and Site Facilities	13
7.8.	Boundary Treatments	13
7.9.	Impact of Retained Trees on the Development	13
7.10.	Summary	13
7.11.	Arboricultural Method Statement	13
<b>8.</b>	<b>Photographs</b>	<b>14</b>
	<b>Appendix 1: BS 5837: 2012 – Guidance Notes</b>	<b>15</b>
	<b>Appendix 2: Survey Methodology</b>	<b>16</b>
	<b>Appendix 3: Tree Data Glossary</b>	<b>17</b>
	<b>Appendix 4: Author's Qualifications</b>	<b>18</b>
	<b>Appendix 5: Further Information</b>	<b>19</b>
	<b>Appendix 6: Tree Data Schedule and Drawings</b>	<b>20</b>

# 1. Introduction

## 1.1. Instruction

1.1.1. We are instructed by Scenario Architecture to:

- Undertake a Tree Survey to BS 5837 at 126 St. Pancras Way 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 trees are growing within a conservation area or are protected by a tree preservation order.
- 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.

## 1.2. Purpose of this Report

- 1.2.1. This report is produced according to the guidance and recommendations within *BS 5837: 2012 - Trees in Relation to Design, Demolition, and Construction*. It is tailored to accompany a planning application. It assesses the impact of all proposed construction works on the tree population. Tree removal, canopy pruning, and the impact upon roots from various groundworks are all considered in detail. Best practice mitigation is specified wherever appropriate.
- 1.2.2. Consideration is also given to the impact of the changed juxtaposition between trees and buildings and how that may influence future tree management.
- 1.2.3. The accompanying Arboricultural Method Statement specifies how the trees shall be protected from accidental damage by demolition and construction activities. It is designed to be enforceable and may be conditioned upon the granting of planning permission.
- 1.2.4. This document should not be used to inform management decisions relating to liability or risk management. Such decisions should be based on a more detailed inspection of the trees than was carried out for this report.

## 1.3. Survey Details

- 1.3.1. A visual ground-level assessment of all trees was undertaken on the 25<sup>th</sup> July 2023 by Carl Lothian. No climbed inspections or specialist decay detection were undertaken. Details of how the survey was undertaken can be found in Appendix 1.
- 1.3.2. The tree locations shown on the accompanying plans have been plotted according to measurements taken on site.

## 1.4. Author

- 1.4.1. This report was compiled by Carl Lothian BSc (Hons) Arboriculture. Details of the author's experience that qualify him to produce such a report are detailed in Appendix 4.

## 2. Site Overview



### 2.1. Brief Site Description

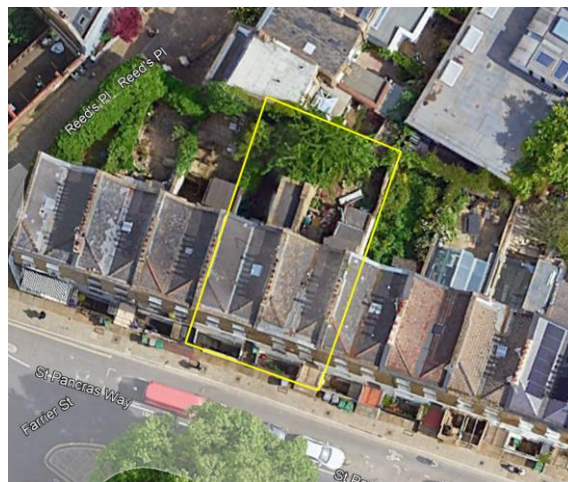
- 2.1.1. Number 124 and 126 St. Pancras Way are terraced residential properties with gardens to the rear.
- 2.1.2. No significant vegetation grows at the front of the properties.
- 2.1.3. The rear gardens are occupied by paving and planting beds. In the rear garden on No: 126 grows a Wild Cherry (T1) and a Bay Laurel (T2). Other small shrubs grow within the rear gardens.
- 2.1.4. 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 51°32'37.99"N 0° 8'23.23"W, and the altitude is approximately 30m above sea level<sup>1</sup>.

### 2.3. Survey Extent

- 2.3.1. The area indicated below<sup>2</sup> shows the extent of our survey. Our survey included all trees within the curtilage of the property and those adjacent to it.



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

<sup>2</sup> Image taken from Google Earth and may not be current

### 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.

#### 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 and T2

- 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. Species Present – Additional Information

- 3.3.1. 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.

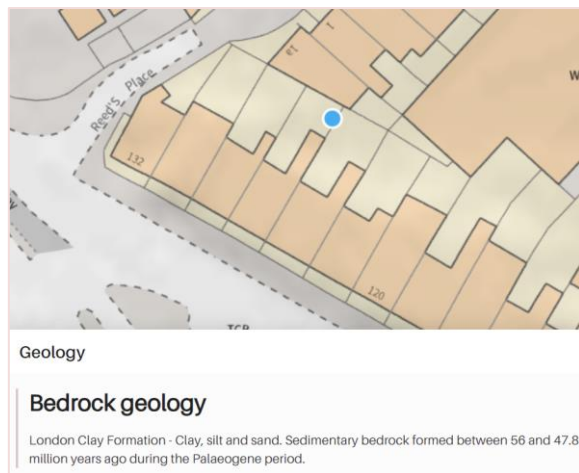
Species	Typical Height at Maturity (m)	Typical Canopy Spread at Maturity (m)	General Notes
Bay Laurel	10	8	Dense evergreen tree native to the Mediterranean area and used to flavour sauces in cooking. Leaves easily identified by their wavy margin and unique smell. Often managed by regular trimming. Usually found as a small, neat tree with a well-structured crown and a domed canopy. Visit <a href="http://www.pfaf.org/user/Plant.aspx?LatinName=Laurus+nobilis">http://www.pfaf.org/user/Plant.aspx?LatinName=Laurus+nobilis</a> for more info.
Wild Cherry	18	7	Deciduous tree also known as bird cherry. Native to Britain and Europe, abundantly planted everywhere with early white blossom and high early vigour. Visit <a href="http://www.pfaf.org/user/Plant.aspx?LatinName=Prunus+avium">http://www.pfaf.org/user/Plant.aspx?LatinName=Prunus+avium</a> for more info.

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 the presence of competing vegetation. The figures quoted are not the maximum dimensions that the species may attain.

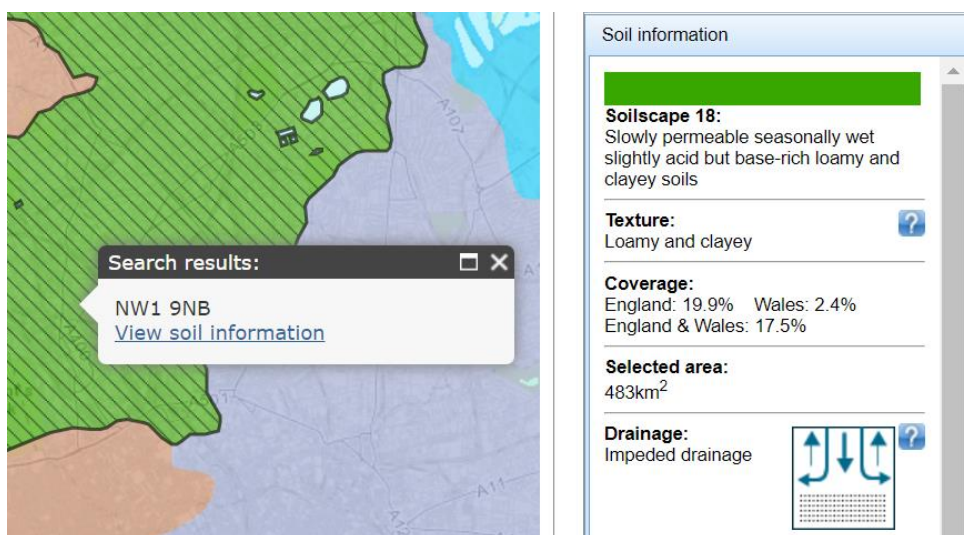
## 4. Local Geology and Soils

### 4.1. Desktop Research

4.1.1. Desktop research into local geology based on the postcode **NW1 9NB** obtained the following results:



Source: [https://geologyviewer.bgs.ac.uk/?\\_ga=2.100849601.17774785.1660229567-1737936254.1660229567](https://geologyviewer.bgs.ac.uk/?_ga=2.100849601.17774785.1660229567-1737936254.1660229567)



Source <http://www.landis.org.uk/soilscapes/>

### 4.2. Site Investigations

4.2.1. We are unaware of any specific investigations into soil properties at the site.

### 4.3. Conclusion and Relevance

- 4.3.1. Based on the information reproduced in Section 3.1, local soils are assumed to have a loamy & clayey texture.
- 4.3.2. Loamy soils contain a mixture of clay and sand. Soil compaction may occur due to vehicular activity on building sites, so ground protection is recommended wherever vehicles operate. Most tree species will grow well in loamy soils.
- 4.3.3. Clay soils may be especially prone to compaction and slurring caused by general construction activity. Both of which significantly impair root function. This must be guarded against using boards to protect any soils where roots are growing. When planting new trees, species should be selected that can tolerate heavy soils.
- 4.3.4. Trees of most species are less likely to root deeply in clay soils. Any new surfacing over tree roots should avoid deep excavation and have good load-spreading properties.

## 5. Statutory Protection – TPOs and Conservation Area Status

Before undertaking most works on trees protected by a tree preservation order<sup>3</sup>, consent needs to be formally obtained from the local authority. Where trees are in a conservation area (but not protected by a TPO), works are generally not permitted without first giving the local authority six weeks' notice of intention<sup>4</sup>. Unauthorised works to protected trees, or trees in a conservation area, may result in criminal prosecution and a fine. Where works are required to implement a fully approved development, no such consent or notice is required.

### 5.1. Desktop Research

5.1.1. We were informed by Rav Curry of London Borough of Camden via email, on the 1<sup>st</sup> of August 2023, that:

- The site lies within the **Jeffrey's Street Conservation Area**.
- There are no tree preservation orders affecting trees within the properties.

### 5.2. Felling Licences

5.2.1. Felling licences issued by the Forestry Commission are sometimes required before removing trees. However, these licenses are aimed toward woodland and forestry management. Felling licences are NOT required for any of the following:

- Lopping, topping or pollarding.
- Removal of small trees (stem diameter less than 8cm) or fruit trees.
- Works to any trees growing within domestic gardens, orchards, or the Inner London boroughs.
- Operations involving less than five cubic meters of timber in any quarter year.
- Thinning and understorey clearing operations.
- Dangerous trees, nuisance trees, some diseased trees.
- Where removal is required to enable a fully approved development.

5.2.2. More detailed guidance can be found at <https://www.gov.uk/government/publications/tree-felling-getting-permission>

5.2.3. Hence a felling licence is **not** required relating to the trees surveyed.

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<sup>3</sup> <https://www.gov.uk/guidance/tree-preservation-orders-and-trees-in-conservation-areas>

<sup>4</sup> 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 six 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.

## 6. Planning Policy Context

### 6.1. National Policy

6.1.1. The National Planning Policy Framework 2021 Policy 12, Paragraph 131 is specifically aimed at urban trees:

131. Trees make an important contribution to the character and quality of urban environments, and can also help mitigate and adapt to climate change. Planning policies and decisions should ensure that new streets are tree-lined<sup>50</sup>, that opportunities are taken to incorporate trees elsewhere in developments (such as parks and community orchards), that appropriate measures are in place to secure the long-term maintenance of newly-planted trees, and that existing trees are retained wherever possible. Applicants and local planning authorities should work with highways officers and tree officers to ensure that the right trees are planted in the right places, and solutions are found that are compatible with highways standards and the needs of different users.

6.1.2. Policy 15, Paragraphs 174, 175, and especially 179 and 180 are aimed at conserving and enhancing the natural environment, habitat and biodiversity. All trees provide some habitat and increase the biodiversity of a site. Native trees such as oaks can support an abundance of algae, lichens, mosses, insects, birds, fungi, reptiles and even mammals.

## 15. Conserving and enhancing the natural environment

174. Planning policies and decisions should contribute to and enhance the natural and local environment by:

- a) protecting and enhancing valued landscapes, sites of biodiversity or geological value and soils (in a manner commensurate with their statutory status or identified quality in the development plan);
- b) recognising the intrinsic character and beauty of the countryside, and the wider benefits from natural capital and ecosystem services – including the economic and other benefits of the best and most versatile agricultural land, and of trees and woodland;
- c) maintaining the character of the undeveloped coast, while improving public access to it where appropriate;
- d) minimising impacts on and providing net gains for biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures;
- e) preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as air and water quality, taking into account relevant information such as river basin management plans; and
- f) remediating and mitigating despoiled, degraded, derelict, contaminated and unstable land, where appropriate.

175. Plans should: distinguish between the hierarchy of international, national and locally designated sites; allocate land with the least environmental or amenity value, where consistent with other policies in this Framework<sup>50</sup>; take a strategic approach to maintaining and enhancing networks of habitats and green infrastructure; and plan for the enhancement of natural capital at a catchment or landscape scale across local authority boundaries.

### Habitats and biodiversity

179. To protect and enhance biodiversity and geodiversity, plans should:

- a) Identify, map and safeguard components of local wildlife-rich habitats and wider ecological networks, including the hierarchy of international, national and locally designated sites of importance for biodiversity<sup>51</sup>; wildlife corridors and stepping stones that connect them; and areas identified by national and local partnerships for habitat management, enhancement, restoration or creation<sup>62</sup>; and
- b) promote the conservation, restoration and enhancement of priority habitats, ecological networks and the protection and recovery of priority species; and identify and pursue opportunities for securing measurable net gains for biodiversity.

180. When determining planning applications, local planning authorities should apply the following principles:

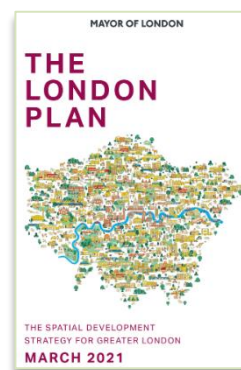
- a) if significant harm to biodiversity resulting from a development cannot be avoided (through locating on an alternative site with less harmful impacts), adequately mitigated, or, as a last resort, compensated for, then planning permission should be refused;
- b) development on land within or outside a Site of Special Scientific Interest, and which is likely to have an adverse effect on it (either individually or in combination with other developments), should not normally be permitted. The only exception is where the benefits of the development in the location proposed clearly outweigh both its likely impact on the features of the site that make it of special scientific interest, and any broader impacts on the national network of Sites of Special Scientific Interest;
- c) development resulting in the loss or deterioration of irreplaceable habitats (such as ancient woodland and ancient or veteran trees) should be refused, unless there are wholly exceptional reasons<sup>63</sup> and a suitable compensation strategy exists; and
- d) development whose primary objective is to conserve or enhance biodiversity should be supported; while opportunities to improve biodiversity in and around developments should be integrated as part of their design, especially where this can secure measurable net gains for biodiversity or enhance public access to nature where this is appropriate.

181. The following should be given the same protection as habitats sites:

- a) potential Special Protection Areas and possible Special Areas of Conservation;
- b) listed or proposed Ramsar sites<sup>64</sup>; and
- c) sites identified, or required, as compensatory measures for adverse effects on habitats sites, potential Special Protection Areas, possible Special Areas of Conservation, and listed or proposed Ramsar sites.

## 6.2. Regional Policy

- 6.2.1. The London Plan 2021<sup>5</sup> is the Spatial Development Strategy for Greater London. It sets out a framework for how London will develop over the next 20-25 years and the Mayor's vision for Good Growth.
- 6.2.2. The Plan is part of the statutory development plan for London, meaning that the policies in the Plan should inform decisions on planning applications across the capital. Borough's Local Plans must be in general conformity with the London Plan, ensuring that the planning system for London operates in a joined-up way and reflects the overall strategy for how London can develop sustainably, which the London Plan sets out<sup>6</sup>.
- 6.2.3. Chapter 8 relates to the natural environment. Within this chapter, Policies G1 and G2 promote green infrastructure and stress the importance of conserving London's Green Belt. Policies G3 and G4 relate to Metropolitan Open land and Open Space. Whilst trees are an intrinsic part of all of the above; they are not specifically mentioned in these policies.



- 6.2.4. Policy G5 is relevant to this report as it promotes the greening of London by including the planting of new trees and retaining existing trees where possible.

### Policy G5 Urban greening

- A Major development proposals should contribute to the greening of London by including urban greening as a fundamental element of site and building design, and by incorporating measures such as high-quality landscaping (including trees), green roofs, green walls and nature-based sustainable drainage.
- B Boroughs should develop an Urban Greening Factor (UGF) to identify the appropriate amount of urban greening required in new developments. The UGF should be based on the factors set out in Table 8.2, but tailored to local circumstances. In the interim, the Mayor recommends a target score of 0.4 for developments that are predominately residential, and a target score of 0.3 for predominately commercial development (excluding B2 and B8 uses).
- C Existing green cover retained on site should count towards developments meeting the interim target scores set out in (B) based on the factors set out in Table 8.2.

Table 8.2 - Urban Greening Factors

Surface Cover Type	Factor
Semi-natural vegetation (e.g. trees, woodland, species-rich grassland) maintained or established on site.	1
Wetland or open water (semi-natural; not chlorinated) maintained or established on site.	1
Intensive green roof or vegetation over structure. Substrate minimum settled depth of 150mm – see <a href="https://www.livingroofs.org">livingroofs.org</a> for descriptions. <sup>A</sup>	0.8
Standard trees planted in connected tree pits with a minimum soil volume equivalent to at least two thirds of the projected canopy area of the mature tree – see <a href="#">Trees in Hard Landscapes</a> for overview. <sup>B</sup>	0.8
Extensive green roof with substrate of minimum settled depth of 80mm (or 60mm beneath vegetation blanket) – meets the requirements of GRO Code 2014. <sup>C</sup>	0.7
Flower-rich perennial planting – see RHS perennial plants for guidance. <sup>D</sup>	0.7
Rain gardens and other vegetated sustainable drainage elements – See CIRIA for case-studies. <sup>E</sup>	0.7
Hedges (line of mature shrubs one or two shrubs wide) – see RHS for guidance. <sup>F</sup>	0.6
Standard trees planted in pits with soil volumes less than two thirds of the projected canopy area of the mature tree.	0.6
Green wall – modular system or climbers rooted in soil – see NBS Guide to Façade Greening for overview. <sup>G</sup>	0.6
Groundcover planting – see RHS Groundcover Plants for overview. <sup>H</sup>	0.5
Amenity grassland (species-poor, regularly mown lawn).	0.4
Extensive green roof of sedum mat or other lightweight systems that do not meet GRO Code 2014. <sup>I</sup>	0.3
Water features (chlorinated) or unplanted detention basins.	0.2
Permeable paving – see CIRIA for overview. <sup>J</sup>	0.1
Sealed surfaces (e.g. concrete, asphalt, waterproofing, stone).	0

- 6.2.5. Further guidance on the UFG has been prepared by the Greater London Authority and can be found here: <https://www.london.gov.uk/what-we-do/planning/implementing-london-plan/london-plan-guidance/urban-greening-factor-ugf-guidance> A UGF calculator tool has also been prepared to help applicants calculate the score of a scheme and present the score as part of their application.
- 6.2.6. Policy G6 promotes biodiversity and access to nature, though trees are not specifically mentioned.

- 6.2.7. Policy G7 is of most relevance to this report as it specifically relates to trees and woodlands:

### Policy G7 Trees and woodlands

- A London's urban forest and woodlands should be protected and maintained, and new trees and woodlands should be planted in appropriate locations in order to increase the extent of London's urban forest – the area of London under the canopy of trees.
- B In their Development Plans, boroughs should:
- 1) Protect 'veteran' trees and ancient woodland where these are not already part of a protected site.
  - 2) Identify opportunities for tree planting in strategic locations.
- C Development proposals should ensure that, wherever possible, existing trees of value are retained<sup>7</sup>. If planning permission is granted that necessitates the removal of trees there should be adequate replacement based on the existing value of the benefits of the trees removed, determined by, for example, i-tree or CAVAT or another appropriate valuation system. The planting of additional trees should generally be included in new developments – particularly large-canopied species which provide a wider range of benefits because of the larger surface area of their canopy.

<sup>5</sup> [https://www.london.gov.uk/sites/default/files/the\\_london\\_plan\\_2021.pdf](https://www.london.gov.uk/sites/default/files/the_london_plan_2021.pdf)

<sup>6</sup> <https://www.london.gov.uk/what-we-do/planning/london-plan/new-london-plan/london-plan-2021>

<sup>7</sup> Category A, B and lesser category trees where these are considered by the local planning authority to be of importance to amenity and biodiversity, as defined by BS 5837:2012

## 6.1. Camden Local Policy

- 6.1.1. The Camden Local Plan sets out the Council's planning policies in order to ensure Camden continues to have robust, effective, and up-to-date policies that respond to changing circumstances. The Local Plan is a key document in Camden's Development Plan. The Council's decisions on planning applications should be taken in line with its development plan unless there are significant matters that indicate otherwise. The Local Plan was adopted in July 2017 and covers the period up to 2031.
- 6.1.2. Within the Local Plan, the core policy relating to trees is detailed in Section 6: *Protecting Amenity*. Policy **A3 - Biodiversity** supports the *London Biodiversity Strategy* and the *Camden Biodiversity Action Plan*. It is intended to ensure Camden's growth is accompanied by an enhancement in the borough's biodiversity. Trees increase the biodiversity of a site, so Policy A3 is paramount. Policy A3 is replicated below:



### Policy A3 Biodiversity

The Council will protect and enhance sites of nature conservation and biodiversity. We will:

- a. designate and protect nature conservation sites and safeguard protected and priority habitats and species;
- b. grant permission for development unless it would directly or indirectly result in the loss or harm to a designated nature conservation site or adversely affect the status or population of priority habitats and species;
- c. seek the protection of other features with nature conservation value, including gardens, wherever possible;
- d. assess developments against their ability to realise benefits for biodiversity through the layout, design and materials used in the built structure and landscaping elements of a proposed development, proportionate to the scale of development proposed;
- e. secure improvements to green corridors, particularly where a development scheme is adjacent to an existing corridor;
- f. seek to improve opportunities to experience nature, in particular where such opportunities are lacking;
- g. require the demolition and construction phase of development, including the movement of works vehicles, to be planned to avoid disturbance to habitats and species and ecologically sensitive areas, and the spread of invasive species;
- h. secure management plans, where appropriate, to ensure that nature conservation objectives are met; and
- i. work with The Royal Parks, The City of London Corporation, the London Wildlife Trust, friends of park groups and local nature conservation groups to protect and improve open spaces and nature conservation in Camden.

#### Trees and vegetation

The Council will protect, and seek to secure additional, trees and vegetation. We will:

- j. resist the loss of trees and vegetation of significant amenity, historic, cultural or ecological value including proposals which may threaten the continued wellbeing of such trees and vegetation;
- k. require trees and vegetation which are to be retained to be satisfactorily protected during the demolition and construction phase of development in line with BS5837:2012 'Trees in relation to Design, Demolition and Construction' and positively integrated as part of the site layout;
- l. expect replacement trees or vegetation to be provided where the loss of significant trees or vegetation or harm to the wellbeing of these trees and vegetation has been justified in the context of the proposed development;
- m. expect developments to incorporate additional trees and vegetation wherever possible.

- 6.1.3. Policy A3 further discusses trees and vegetation and provides additional guidance from Section 6.75 onwards. Screenshots are produced overleaf.

**Trees and vegetation**

Trees and vegetation are integral to the amenity and character of the street scene, provide connections and habitat for wildlife, offer shade and cooling to improve the local microclimate, reduce the impacts of flooding and filter pollutants from the air. There is a strong representation of native species in Camden reflecting local soil types including trees first planted to support the substantial growth of Camden's built form in the 18th and 19th centuries. Increasing trees and vegetation is an important way of adapting to projected future temperature increases linked to climate change.

The Council will seek the retention of trees and vegetation of significant amenity, historic, cultural or ecological value. This includes trees within the public highway which can potentially be affected by a development. Trees and vegetation are important to the contribution a site and its setting make to townscape character and amenity and have a sense of maturity which may often be lacking from replacement planting. Ancient woodland and ancient or veteran trees found outside ancient woodland are particularly valuable as once lost they can never be replaced. The ancient woodland in Camden forms part of the Hampstead Woods Site of Special Scientific Interest (SSSI).

Applicants will be required to take measures to the Council's satisfaction to minimise any adverse impacts from development on retained and proposed trees and vegetation. This includes the potential risk of damage arising from demolition or construction works and development which fails to allow sufficient space above and below ground to prevent damage to root systems or facilitate future growth.

Camden Planning Guidance on design supplementary planning document sets out the information required by the Council to ensure that there is a systematic approach to the safeguarding of trees and vegetation within the development site and on adjacent land (including street trees) both during and following the construction process. We will expect developers to follow the principles and practice set out in 'British Standard 5837:2012 (or as subsequently updated) Trees in relation to design, demolition and construction - Recommendations'.

**Replacement and additional planting**

Where the loss of trees or vegetation of value cannot be avoided or would adversely affect their future growth, the Council will require suitable replacements capable of providing at least equal amenity and ecological value. Where this cannot be achieved on-site, the Council will require a financial contribution towards re-provision. Tree planting should, as a minimum, offset the capacity of trees lost as a result of the development to absorb carbon, taking account of the time needed to reach maturity.

The Council will also expect developments to incorporate additional trees and vegetation wherever possible as part of the package of biodiversity enhancing measures described above. This should include large species trees where opportunities allow. It is particularly important that new trees and vegetation are provided on sites where this is currently lacking or where this would enhance public areas.

We will take a 'right tree for the right site' approach which takes account of:

- the amenity value of any trees to be removed,
- ecology,
- historic context,
- availability of space,
- soil conditions including hydrogeology,
- potential improvements to air and soil quality,
- reducing the effects of and adapting to climate change; and
- the guidance provided in BS 8545 Trees: from nursery to independence in the landscape – Recommendations'.

The ability to sustain an attractive treed environment will often be contingent on age and species diversification.

#### 6.1.4. Trees are also mentioned in Policy **A5 - Basements**, which is replicated below:

**Policy A5 Basements**

The Council will only permit basement development where it is demonstrated to its satisfaction that the proposal would not cause harm to:

- a. neighbouring properties;
- b. the structural, ground, or water conditions of the area;
- c. the character and amenity of the area;
- d. the architectural character of the building; and
- e. the significance of heritage assets.

In determining proposals for basements and other underground development, the Council will require an assessment of the scheme's impact on drainage, flooding, groundwater conditions and structural stability in the form of a Basement Impact Assessment and where appropriate, a Basement Construction Plan.

The siting, location, scale and design of basements must have minimal impact on, and be subordinate to, the host building and property. Basement development should:

- f. not comprise of more than one storey;
- g. not be built under an existing basement;
- h. not exceed 50% of each garden within the property;
- i. be less than 1.5 times the footprint of the host building in area;
- j. extend into the garden no further than 50% of the depth of the host building measured from the principal rear elevation;
- k. not extend into or underneath the garden further than 50% of the depth of the garden;
- l. be set back from neighbouring property boundaries where it extends beyond the footprint of the host building; and
- m. avoid the loss of garden space or trees of townscape or amenity value.

Exceptions to f. to k. above may be made on large comprehensively planned sites.

The Council will require applicants to demonstrate that proposals for basements:

- n. do not harm neighbouring properties, including requiring the provision of a Basement Impact Assessment which shows that the scheme poses a risk of damage to neighbouring properties no higher than Burland Scale 1 'very slight';
- o. avoid adversely affecting drainage and run-off or causing other damage to the water environment;
- p. avoid cumulative impacts;
- q. do not harm the amenity of neighbours;
- r. provide satisfactory landscaping, including adequate soil depth;
- s. do not harm the appearance or setting of the property or the established character of the surrounding area;
- t. protect important archaeological remains; and
- u. do not prejudice the ability of the garden to support trees where they are part of the character of the area.

The Council will not permit basement schemes which include habitable rooms and other sensitive uses in areas prone to flooding.

We will generally require a Construction Management Plan for basement developments.

Given the complex nature of basement development, the Council encourages developers to offer security for expenses for basement development to adjoining neighbours.

**Protection of gardens and trees**

As set out in Policy A3 Biodiversity, the Council will protect green areas including gardens and retain and protect trees of significant amenity value and which make a positive contribution to the character and appearance of a conservation area. Basement development should be designed to retain and protect gardens and trees.

The protection of garden space to support large canopy trees is of particular importance near to open spaces. Basement development should be designed to avoid damage to trees both on or adjacent to the site, including street trees and the root protection zones needed by these trees. Where there are trees on or adjacent to the site, the Council will require an arboricultural report to be submitted as part of a planning application. Further information on protection of trees is available in our supplementary planning document Camden Planning Guidance on design.

#### 6.1.5. Within Section 7 of the Local Plan, Policy **D1: Design** and **D2: Heritage**, both make reference to trees.

## 7. Arboricultural Impact Assessment

### 7.1. Overview

7.1.1. It is proposed to extend the existing building as indicated on the drawings in Appendix 6.

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

Activity	Trees Potentially Affected
Tree Removal: Retention Category A	None
Tree Removal: Retention Category B	None
Tree Removal: Retention Category C	T1 and T2
Tree Removal: Retention Category U	None
Tree Pruning	None
RPA: Foundations	None
RPA: New Hard Surface	None
RPA: Replace Existing Hard Surface	None
RPA: Underground Services	None
RPA: Change of Ground Levels	None
RPA: Soil Compaction	None

7.1.3. 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.

### 7.2. Tree Removal

7.2.1. All trees to be removed are indicated on the Impact Assessment Plan and are listed below:

7.2.2. **Retention Category A:** Our survey did not identify any Retention Category A trees.

7.2.3. **Retention Category B:** Our survey did not identify any Retention Category B trees.

7.2.4. **Retention Category C:** It is proposed to remove T1 and T2. These trees are to be removed as they are located so close to the proposed basement footprint that retention is not possible.

7.2.5. These are relatively small trees located within a rear garden and are not visible from public vantage points. They are considered to have any landscape value. Consequently, they have a low amenity value. Their removal shall not have a significant impact on the visual amenity of the locality.

7.2.6. **Retention Category U:** Our survey did not identify any Retention Category U trees.

7.2.7. None of the trees to be removed are protected by a tree preservation order or considered worthy of special protection.

7.2.8. Details specific to each tree can also be found in the Tree Data Schedule.

### 7.3. Mitigation Planting

7.3.1. The trees/shrubs to be removed are of such low amenity value that no mitigation planting is considered necessary.

## **7.4. Impact on Tree Canopies**

- 7.4.1. As no trees overhang the site there shall be no impact on tree canopies by the proposals.

## **7.5. Impact on Tree Roots**

- 7.5.1. As no Root Protection Areas extend within the site, tree roots shall not be affected by the proposals.

## **7.6. Waste and Materials Storage**

- 7.6.1. 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 spillage avoids all Root Protection Areas.
- 7.6.2. Areas designated for the storage of building materials and waste products will need to be approved by the local authority. Root Protection Areas should be avoided. Where this is not possible, suitable ground protection measures will need to be installed.
- 7.6.3. No root protection areas extend within the site so there shall be no arboricultural constraints on waste and material storage.

## **7.7. Cabins and Site Facilities**

- 7.7.1. 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.
- 7.7.2. No root protection areas or tree canopied extend within the site so there shall be no arboricultural constraints on waste and material storage.

## **7.8. Boundary Treatments**

- 7.8.1. No changes are proposed to the existing boundary features that might impact trees.

## **7.9. Impact of Retained Trees on the Development**

- 7.9.1. No trees are proposed for retention so there shall be no impact from trees on the proposed development.

## **7.10. Summary**

- 7.10.1. To enable the development, it is proposed to remove T1 and T2. which are located internally to the site. These are all small trees and/or are hidden from public vantage points. Consequently, the impact of tree removal on local amenity levels shall be minimal.
- 7.10.2. As no canopies or Root Protection Areas extend within the site, there shall be no further impact on trees.

## **7.11. Arboricultural Method Statement**

- 7.11.1. Given that there are no trees or Root Protection Areas that grow within the site or extend within it, it is considered that an Arboricultural Method Statement should not be required to support this planning application.

## 8. Photographs

Photograph 1.



Photograph 2.



## 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<sup>+</sup>** Indicates borderline C/B, though Category C is deemed to be most appropriate.

**B<sup>-</sup>** Indicates borderline C/B, though Category B is deemed to be most appropriate.

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. These 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.

# Appendix 2: 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.

# Appendix 3: 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.
Semi-Mature	Significant future growth to be expected, both in height and crown spread (typically below 30% of life expectancy).
Early-Mature	Full height almost attained. Significant growth may be expected in terms of crown spread (typically 30-60% of life expectancy).
Mature	Full height attained. Crown spread will increase but growth increments will be slight (typically 60% or more of life expectancy).
Veteran	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.
Species:	Common names and Latin names are given.
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.
High	To be carried out within 3 months.
Moderate	To be carried out within 1 year.
Low	To be carried out within 3 years.
Inspection Frequency:	An interval of 6 months, 1 year, 1.5 years or 3 years is allocated before the next inspection is due. Wherever practical, consideration 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.
Vigour:	An indication of growth rate and the tree's ability to cope with stresses:
High	Having above average vigour.
Moderate	Having average vigour.
Low	Having below average vigour.
Very Low	Tree is struggling to survive and may be dying.
Physiological Condition:	
Good	Healthy and with no symptoms of significant disease.
Fair	Disease present or vigour is impaired.
Poor	Significant disease present or vigour is extremely low.
Very Poor	Tree is dying.
Structural Condition:	
Good	Having no significant structural defects.
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.
High	Attractive specimen, observable by a significant number of people.
Moderate	One of the above factors is not applicable.
Low	Unattractive specimen or largely hidden from view.
Life Expectancy:	The estimated number of years before the tree may require removal. Classified as (<10), (10 – 20), (20 – 40), or (40+).
Retention Category:	These are explained in detail in Appendix 1.

## A2.2 Evaluation of Defects

Cavities, wounds, deadwood etc are all evaluated as follows:	
Major	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 unlikely to develop into a major defect.

## Appendix 4: Author's Qualifications

### **Qualifications & Experience of Carl Lothian – BSc (Hons) (Arboriculture).**

Carl began his career undertaking a Level 3 extended diploma in arboriculture and forestry at Merrist Wood College in 2015. Upon completion of his diploma, Carl worked with several tree surgery firms completing a range of arboricultural works. In 2018 Carl began his BSc (Hons) in arboriculture and urban forestry, graduating with a first-class degree and attaining the Institute of Chartered Foresters student of the year award.

After graduating, Carl worked as a TreeRadar technician where he carried out tree root and decay surveys with specialist ground-penetrating radar equipment. During this time Carl was fortunate enough to work at prestigious sites, such as the Palace of Westminster and the National Maritime Museum.

Whilst working at Crown, Carl has undertaken a range of tree surveys and written reports relating to development, safety, subsidence, and decay detection. Carl is a professional member of the Arboricultural Association.

## 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](http://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#](http://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: 2015. *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/wgfsfell.pdf/\\$FILE/wgfsfell.pdf](http://www.forestry.gov.uk/website/pdf.nsf/pdf/wgfsfell.pdf/$FILE/wgfsfell.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](http://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

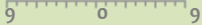


Communities and Local Government website with numerous downloadable documents, from: <http://www.communities.gov.uk/planningandbuilding/planning/treeshighhedges/>

### Tree Specific Websites

<a href="http://www.crowntrees.co.uk">www.crowntrees.co.uk</a>	Crown Consultants site containing useful information
<a href="http://www.trees.org.uk">www.trees.org.uk</a>	Arboricultural Association
<a href="http://www.rfs.co.uk">www.rfs.co.uk</a>	Royal Forestry Society of England, Wales and N. Ireland
<a href="http://www.treehelp.info">www.treehelp.info</a>	The Tree Advice Trust
<a href="http://www.woodland-trust.org.uk">www.woodland-trust.org.uk</a>	The Woodland Trust
<a href="http://www.treecouncil.org.uk">www.treecouncil.org.uk</a>	The Tree Council

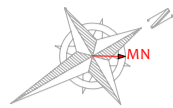
## Appendix 6: Tree Data Schedule and Drawings

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.

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)	Crown Spread (m) N W      E S	Scaled Tree Diagram (m) <div><div>909</div></div>	Notes	Recommendations (Independent of any development proposals)		Vigour	Amenity Value
										Physiological Condition	Life Expectancy (yrs)
										Structural Condition	Retention Category
T1	Early-Mature  Wild Cherry  Prunus avium.	9.5	2.5	41	2.5      4 3      3.5		Position: Situated within the rear garden of No: 126. Form: Single stemmed and vertical with a balanced crown. History: Multiple pruning wounds due to crown reduction. Defects: <b>No significant defects observed.</b> Other: Close to boundary wall. Recorded stem diameter is equivalent for 3 stems (35cm, 15cm, 14cm).	No action required.		Moderate  Good  Good	Moderate  20-40  C +
								n/a	3		
T2	Semi-Mature  Bay Laurel  Laurus nobilis.	14	1.5	18	1.5      2.5 4.5      4.5		Position: Situated within the rear garden of No: 126. Form: Single stemmed and leaning with an unbalanced crown. History: No evidence of significant pruning. Defects: <b>No significant defects observed.</b>	No action required.		Moderate  Good  Good	Low  40+  C
								n/a	3		

Tree Data Schedule

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Crown Spread (m)			Scaled Tree Diagram (m)	Notes	Recommendations (Independent of any development proposals)		Vigour		Amenity Value	
											Physiological Condition	Life Expectancy (yrs)		
									Priority	Inspect Free (yrs)	Structural Condition	Retention Category		
T1	Early-Mature <b>Wild Cherry</b>	9.5	2.5	41	2.5	3		Position: Situated within the rear garden of No. 126. Form: Single stemmed and vertical with a balanced crown. History: Multiple pruning wounds due to crown reduction. Defects: <b>No significant defects observed.</b> Other: Close to boundary wall. Recorded stem diameter is equivalent for 3 stems (35cm, 15cm, 14cm).	No action required.		Moderate	Moderate	20-40	C +
	Prunus avium.				3.5	4					Good	Good		
T2	Semi-Mature <b>Bay Laurel</b>	14	1.5	18	1.5	2.5		Position: Situated within the rear garden of No. 126. Form: Single stemmed and leaning with an unbalanced crown. History: No evidence of significant pruning. Defects: <b>No significant defects observed.</b>	No action required.		Moderate	Low	40+	C
	Laurus nobilis.				4.5	4.5					Good	Good		

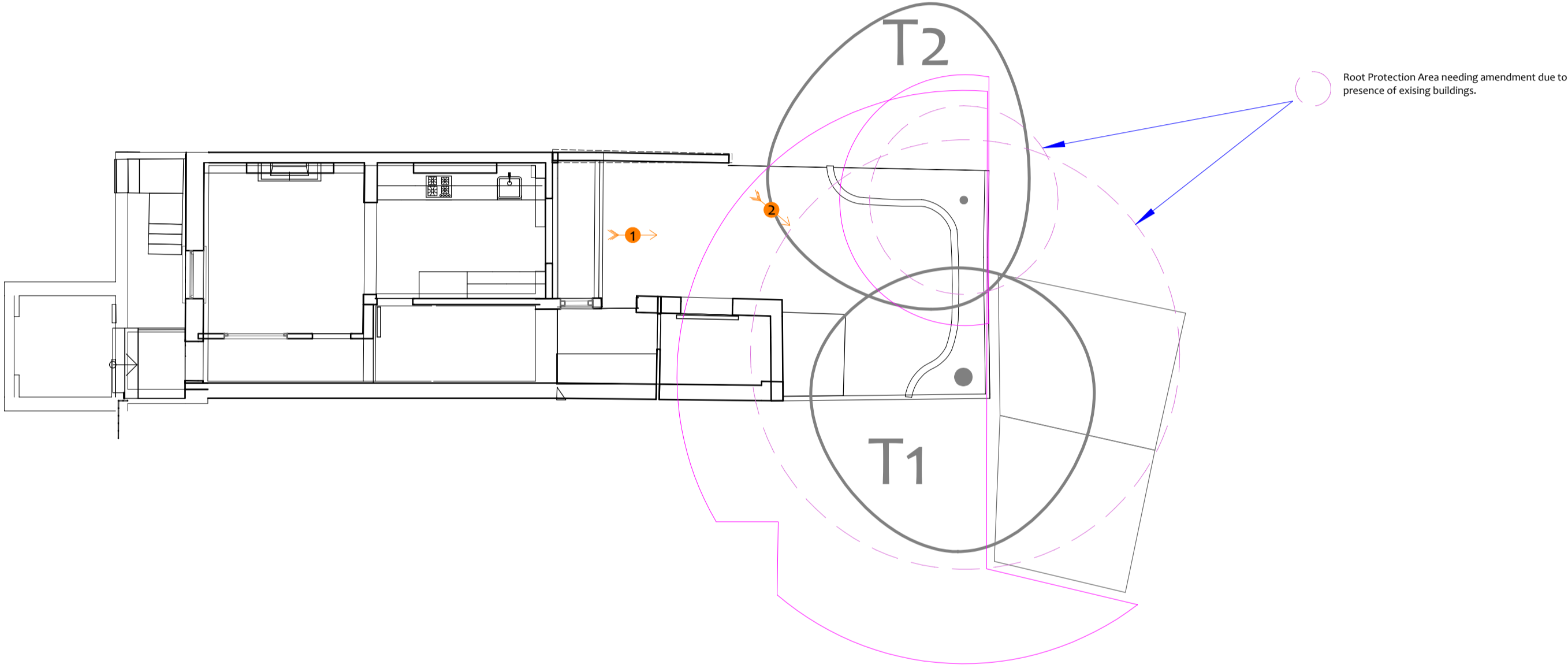


Photographs

Photograph 1.



Photograph 2.



Drawing No:	CCL 11569A / TCP Rev: 1
Title:	Tree Constraints Plan (Existing Layout)
Site:	126 St. Pancras Way, NW1 9NB
Scale:	0 5 1:100 Paper Size: A1



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

	Trees of high quality with an estimated life expectancy of 40+ years. Usually large trees with significant presence or smaller trees with excellent form. Retention of these trees is highly desirable.
	Trees of moderate quality with a life expectancy of 20+ years. Usually maturing trees, or younger trees with good form. Retention of these trees is desirable though less than Category A trees
	Unremarkable trees of low quality and merit. Individual specimens are not considered to be a material planning consideration.
	Trees unsuitable for retention due to their very poor condition.

Tree Constraints Plan  
Status: Final

	BS 5837 Root Protection Area (radius = 1xstem diameter)
	Root Protection Area needing amendment due to site conditions, e.g. presence of existing road or building.
	Root Protection Area having been amended to account for site conditions
T1 = Tree No 1	G2 = Group No 2 H3 = Hedge No 3

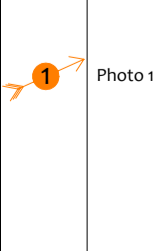


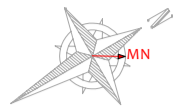
Photo 1

**MN** = Measured North:  
Canopy spreads are sometimes measured to an approximate N defined by site features. Often more accurate, especially where rows of trees are not aligned N-S or E-W.

Tree Ref.	Species	Height (m)	Root Protection Area		
			Radius (m)	m <sup>2</sup>	Square (m)
T1	Wild Cherry	9.5	4.9	76	8.7
T2	Bay Laurel	14	2.2	15	3.8

Tree Data Schedule

Reference C = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Crown Spread (m)			Scaled Tree Diagram (m)	Notes	Recommendations (Independent of any development proposals)		Vigour		Amenity Value	
											Physiological Condition	Life Expectancy (yrs)		
									Priority	Inspect Free (yrs)	Structural Condition	Retention Category		
T1	Early-Mature <b>Wild Cherry</b>	9.5	2.5	41	2.5	4		Position: Situated within the rear garden of No. 126. Form: Single stemmed and vertical with a balanced crown. History: Multiple pruning wounds due to crown reduction. Defects: <b>No significant defects observed.</b> Other: Close to boundary wall. Recorded stem diameter is equivalent for 3 stems (35cm, 15cm, 14cm).	No action required.	n/a	3	Moderate  Good	Moderate  20-40	C +
	Prunus avium.													
T2	Semi-Mature <b>Bay Laurel</b>	14	1.5	18	1.5	2.5		Position: Situated within the rear garden of No. 126. Form: Single stemmed and leaning with an unbalanced crown. History: No evidence of significant pruning. Defects: <b>No significant defects observed.</b>	No action required.	n/a	3	Moderate  Good	Low  40+	C
	Laurus nobilis.													

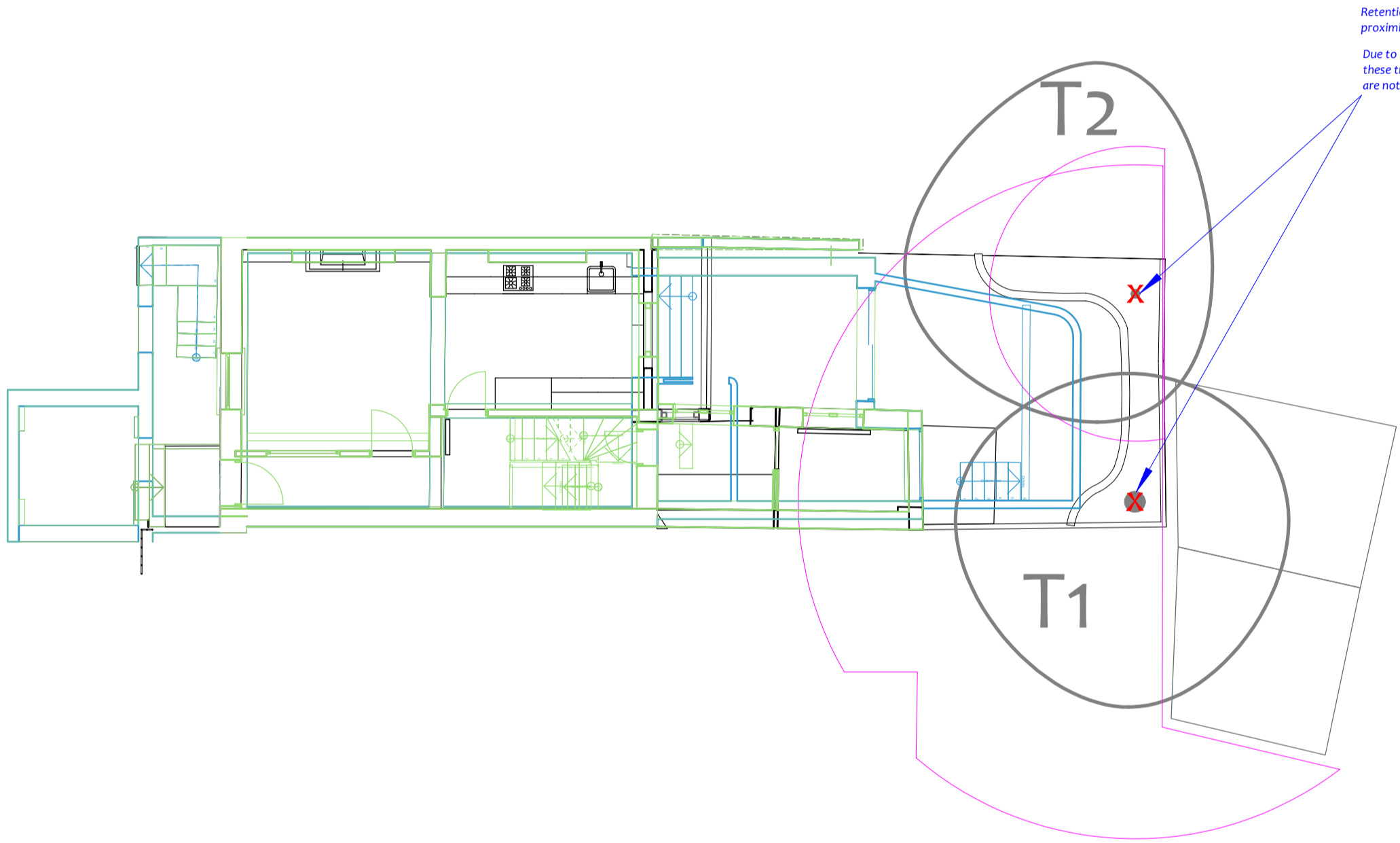


Photographs

Photograph 1.



Photograph 2.



Retention Category C trees to be removed due to the proximity of the proposed basement  
Due to their small stature and relatively concealed location, these trees are considered to have a low amenity value and are not considered to be a material planning consideration.

Existing Layout (Black)

Proposed Layout Basement (Blue)

Proposed Layout Ground Floor (Pale Green)



Drawing No:	CCL 11569A / IAP Rev: 1
Title:	Impact Assessment Plan
Site:	126 St. Pancras Way, NW1 9NB
Scale:	0 5 1:100 Paper Size: A1






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

	Trees of high quality with an estimated life expectancy of 40+ years. Usually large trees with significant presence or smaller trees with excellent form. Retention of these trees is highly desirable.
	Trees of moderate quality with a life expectancy of 20+ years. Usually maturing trees, or younger trees with good form. Retention of these trees is desirable though less than Category A trees.
	Unremarkable trees of low quality and merit. Individual specimens are not considered to be a material planning consideration.
	Trees unsuitable for retention due to their very poor condition.

## Impact Assessment Plan

Status: Final - for submission

	BS 5837 Root Protection Area (radius = 1xstem diameter)	
	Root Protection Area needing amendment due to site conditions, e.g. presence of existing road or building.	
	Root Protection Area having been amended to account for site conditions	
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:  
Canopy spreads are sometimes measured to an approximate N defined by site features. Often more accurate, especially where rows of trees are not aligned N-S or E-W.

Tree Ref.	Species	Height (m)	Radius (m)	Area (m²)	Square (m)
T1	Wild Cherry	9.5	4.9	76	8.7
T2	Bay Laurel	14	2.2	15	3.8