



**Oak House 2 Woodside Drive, Little Aston, Sutton Coldfield, B74 3BB**

**ARBORICULTURAL IMPLICATION STUDY  
INCORPORATING A METHOD STATEMENT  
AND TREE CONSTRAINTS & PROTECTION PLAN**



**Prepared on instruction by**

**Ms S Fox**

**March 2022**

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## **1.0 Introduction**

- 1.1 This Arboricultural Implications Assessment and Arboricultural Method Statement aim to identify and address those matters concerning the successful retention of the existing mature trees within and adjacent to Oak House 2 Woodside Drive, Little Aston, Sutton Coldfield, B74 3BB.
- 1.2 The trees were inspected during March 2022 by Jonathan Alexander Green, who holds an HND in Arboriculture, is also a Professional Member of the Arboricultural Association, and a member of the Consulting Arborist Association. The report follows the guidelines given in BS5837: 2012.
- 1.3 All trees have been inspected from ground level only. Should further more detailed inspection be deemed appropriate, this is under 'Recommendations'. Trees are dynamic living organisms whose health and condition can rapidly change, depending on several external and internal factors. The conclusions and recommendations in this report relate to the trees at the time of the inspection.

## **2.0 Impact of Proposed Development**

### **2.1 Rear two-storey extension:**

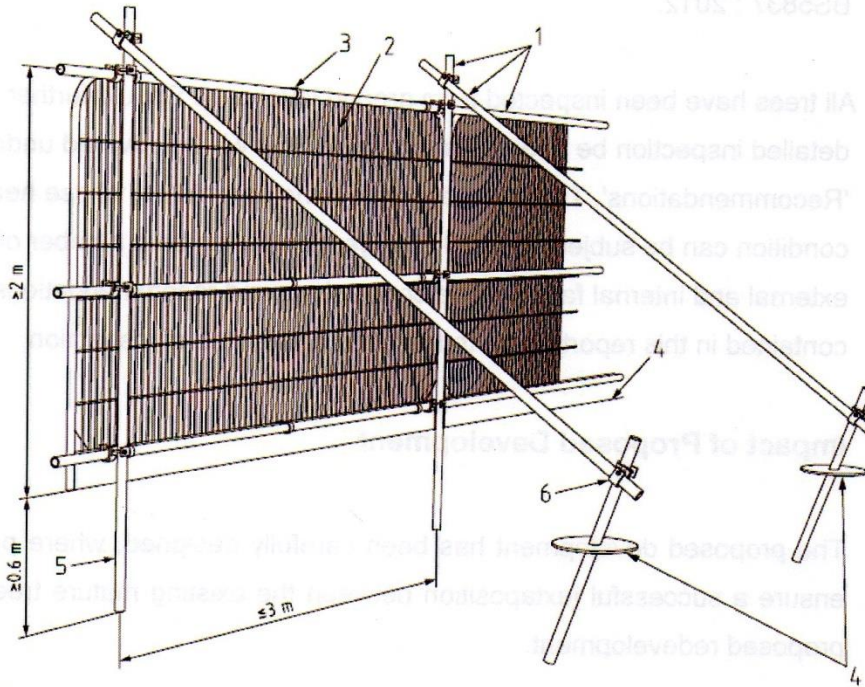
The proposal is carefully designed, where possible, to ensure a successful juxtaposition with the existing mature trees.

### **2.2 The proposed development WILL NOT involve the removal of the trees.**

### **2.3 The proposed development WILL NOT be within the root protection area of any trees.**

## **3.0 Tree Protection**

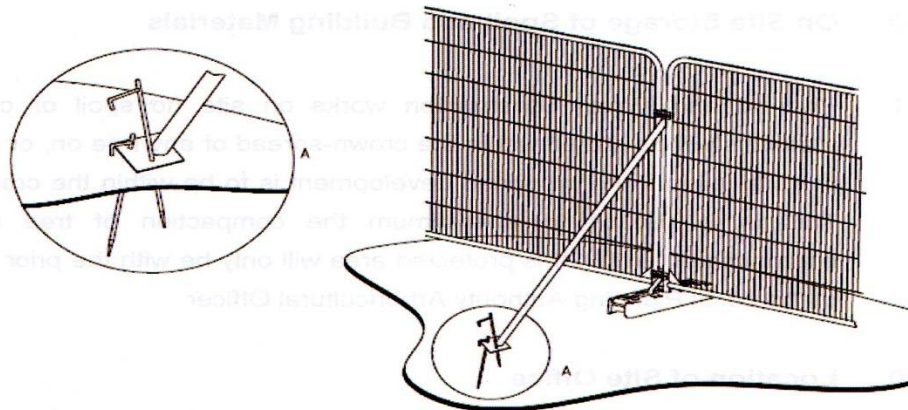
- 3.1 Trees that are to be retained adjacent or within the site will be protected by stout fencing erected at specific distances from the base of the trees. This fencing will be constructed with weld mesh on a framework of scaffolding, or similarly sturdy material (Herras type fencing), driven into the ground to a suitable depth to ensure its suitability, all in line with BS5837: 2012 figure 2 (shown below)



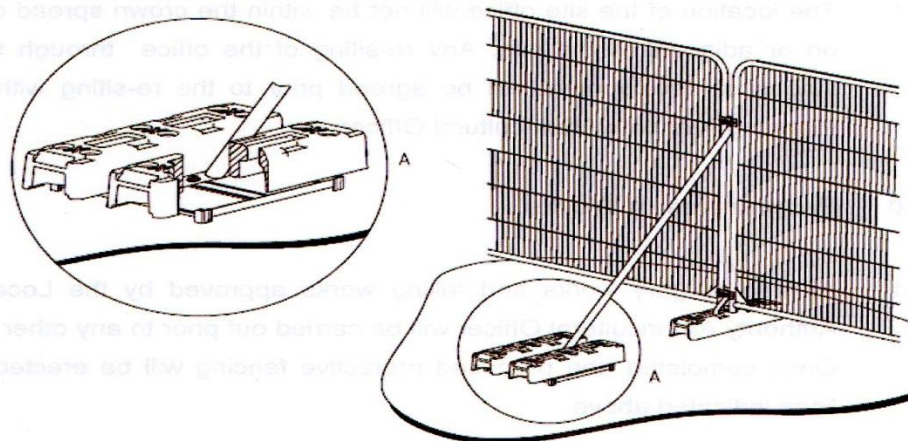
**Key**

- 1 Standard scaffold poles
- 2 Heavy gauge 2 m tall galvanized tube and welded mesh infill panels
- 3 Panels secured to uprights and cross-members with wire ties
- 4 Ground level
- 5 Uprights driven into the ground until secure (minimum depth 0.6 m)
- 6 Standard scaffold clamps

Alternatively, the herras fencing may be supported as shown below, and in line with BS5837 :2012 figure 3



**a) Stabilizer strut with base plate secured with ground pins**



**b) Stabilizer strut mounted on block tray**

- 3.2 The tree protection fencing must be regarded as inviolate. The tree protection fencing will be erected before the commencement of the development to protect the trees. Once erected, the fencing will remain in situ. It will not be removed or altered without the prior consent of the Local Planning Authority Arboricultural Officer in consultation with the named arboriculturalist.
- 3.3 The protective fencing will be erected on the line shown on the Tree Protection Plan drawing.

The table below details the distance of the tree protection fence from the tree trunk. This will allow the reader to place the tree protection fencing in the correct position to create a construction exclusion zone (also refer to the tree protection plan).

Tree I.D.	Distance from the mainstem
T1	15m – the boundary wall and bedding area by the driveway will also act as a barrier.
T5	7.5m
T9	8m
T15	10.5m
T19	9m
T20	9.5m
T26	5m
T32	1.5m
T34	10m
T35	10m - no more than a 1.5m gap between the fence and the southern and eastern wall of the house.

#### **4.0 Onsite Storage of Spoil and Building materials**

4.1 To reduce to minimum root compaction, before and during construction work onsite, no spoil or construction materials are stored within the crown spread of any tree on or adjacent to the site, even if the proposed development is within the crown spread. Any encroachment within this protected area will only be with the prior agreement of the Local Planning Authority Officer.

- CEZ = Construction Exclusion Zones (highlighted on the tree protection plan).

#### **5.0 Location of Site Office**

5.1 The site office location will not be within the crown spread of the trees. Any re-siting of the office through the various stages of development will be agreed upon before the re-siting with the Local Planning Authority Arboricultural Officer.

#### **6.0 Programme of Works**

6.1 All tree surgery works and felling works approved by the Local Planning Authority Arboricultural Officer will be done before any other site work. Once completed, the proposed protective fencing must be erected along the indicated lines.

- No tree surgery work is required in order to undertake this proposal. Under general comments, I have mentioned some defects in the tree survey table that could be carried out separately as part of an arboricultural management plan.

6.2 A chosen contractor will carry out the required work before any onsite construction or demolition commencement.

- 6.3 During construction work, the developer will maintain every effort to prevent unnecessary damage to the trees by ensuring that the tree protection fencing is in place and in good condition.
- 6.4 The site should be inspected regularly by a competent and qualified arboriculturalist. The Arboricultural Officer will be notified immediately of any unforeseen damage. The necessary remedial tree surgery will be carried out at the earliest opportunity to the approval of the Arboricultural Officer.
- 6.5 On completion of the development work onsite, it would be advisable to carry out a further tree survey to identify any remedial tree surgery necessary as a result of the development work and suggest details for future management of the trees.

## **7.0 Remedial Tree Surgery**

7.1 Any proposed tree surgery work identified and agreed with the Local Planning Authority will be carried out following BS3998: 2010 (Tree Work – Recommendations). A competent arboricultural contractor will carry out the work. Alterations to the proposed work schedule will be agreed upon with the Arboricultural Officer before the commencement of the work.

- No tree surgery work is required to enable this proposal to be undertaken effectively.

7.2 Accidental damage to trees during the construction phase of the development will be noted and reported as per paragraph 11.2 of this document.

## **8.0 Levels**

8.1 Should any levels be changed in areas adjacent to the trees or within the minimum recommended distance. The appropriate measures must be taken to minimise the detrimental effect on the trees in question.

- No level changes within any tree root protection areas is required.

8.2 Where necessary, a granular material is used that will not inhibit gaseous diffusion, e.g. no-fines gravel or cobbles. All hard surfaces will suit gaseous diffusions, such as brick paviors.

- N/A

8.3 Also, where no dig principles have been used to avoid root loss, the extent of the level increase will be shown as a section on the appropriate engineering drawing.

- N/A

8.4 Minor level change may be required to hide a ground beam or edge of a built-up surface. In all cases, a gentle taper will be used so that the change in level runs out before it reaches the tree(s) affected.

- No minor level changes within a root protection area are required.

8.5 Excavations close to the tree(s) roots greater than 50mm diameter are likely to be encountered; particular care will have to be taken to avoid damage. These areas' excavation will be undertaken by hand, preventing any damage to the bark. The roots will be surrounded by sharp sand before replacing any soil or other material in the vicinity.

- No excavation close to a tree will be necessary.

## 9.0 Services

9.1 All service runs are placed outside the crown spread of trees on or adjacent to the site. If impossible to achieve, a section of service run passes within a tree protection area around a retained tree; this must be dug by hand following 'broken trenches' (NJUG 4). To ensure that tree roots are not damaged during the service installation. All root pruning will be agreed upon beforehand with the named arboriculturalist in consultation with the Local Planning Authority Arboricultural Officer. All root pruning will be following BS3998: 2010. All routes for overhead services will aim to avoid the trees. Where this is unavoidable, any tree work will be agreed upon before commencement with the Arboricultural Officer.

- No new service run passes through a root protection area.

9.2 All service runs to be agreed upon with the Local Planning Authority before the commencement of work.

- No new service run passes through a root protection area.

## 10.0 Construction Within The tree Protection Area

10.1 The development does NOT fall within any tree's calculated root protection area. **Also, a small section of T35's RPA is protected by existing paving. This will not be removed.**

## 11.0 Reporting Procedure

11.1 The development period: A qualified arboriculturalist should be named the contact so that arboricultural issues that arise during the development period can be dealt with effectively.



- 11.2 When an inspection occurs, planned or otherwise, a report will be written and provided to the client. The report will be copied to the Local Authority Arboricultural Officer if appropriate.
- 11.3 Ensure arboricultural aspects of the planning permission are enforced and to deal with and advise upon any problems that arise during the development process.
- 11.4 The site and proposed development are monitored/inspected regularly by the named arboriculturalist. Should any problems arise during the development, the site manager will contact the named arboriculturalist. The Local Planning Authority must be notified of any arboricultural issues that arise and appropriate action taken with the client's prior permission.

## **12.0 Tree Constraints & Tree Protection Plan**

- 12.1 The Tree Constraints & Protection Plan drawings indicate the trees marked for retention and, if relevant, those for removal in brown (T39) is dead. In this case, no tree is detailed for removal.
- 12.2 The drawing also indicates the location for the erection of the tree protection barriers, based upon the calculation of Root Protection Area (R.P.A.) as part of the Tree Constraints & Tree Protection Plan. This drawing shows the actual position of the tree protection barriers. Areas that require special precautions are indicated in yellow hatching. Trees that are to be planted are shown as green squares. This development does not require the replacement of a felled tree. Neither does this development require any special requirements.

## Drawings

### Tree Constraints Plan & Tree Protection Plan

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**TREE CONSTRAINTS PLAN**

SCALE :  
1 : 500

@ A4

DATE :  
23/03/2022



MAP FILENAME : 51 Southlands  
Road, Moseley, B13 9RL

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Pear Technology Services Ltd; Email: info@peartechnology.co.uk  
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Crown Spread



Root Protection Area



Category 'A'



Category 'B'



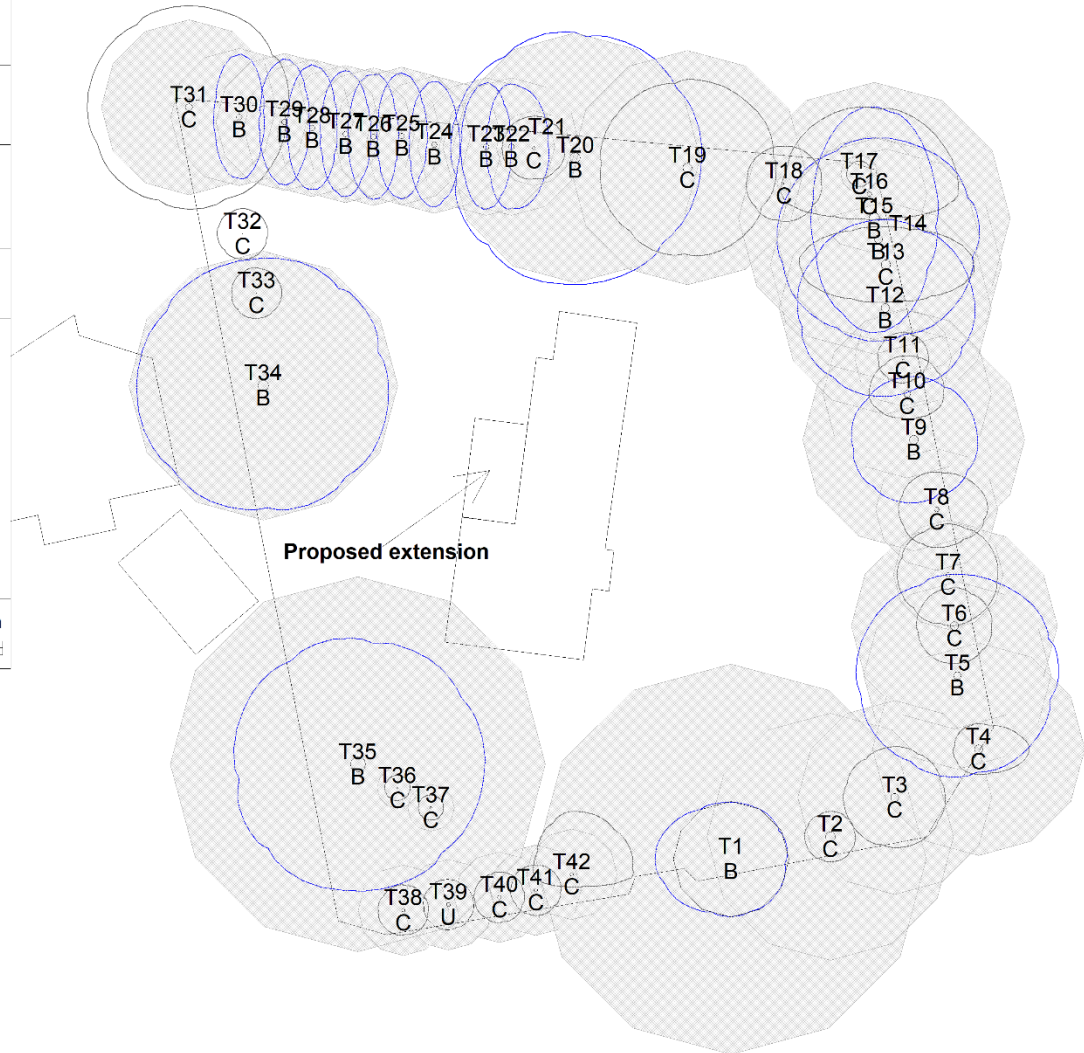
Category 'C'



Category 'U'

0

40m



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**TREE PROTECTION PLAN**

SCALE :  
1 : 500

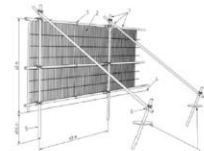
DATE :  
23/03/2022



MAP FILENAME : 51 Southlands Road, Moseley, B13 9RL

Map data shown may contain Ordnance Survey @ products supplied by  
Pear Technology Services Ltd; Email: info@peartechology.co.uk  
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CEZ = construction exclusion zone, no grading, no trenching, gridding or grubbing or equipment in this area. Install tree protection fencing before commencement of construction work. The tree protection fencing should remain in place until all construction is completed.



- 1. Standard height posts
- 2. Posts spaced to suit approved fence and suitable with V&A panels
- 3. Posts to be set in concrete bases and connected with wire ties
- 4. Posts to be set in concrete bases and connected with wire ties
- 5. Posts to be set in concrete bases and connected with wire ties
- 6. Posts to be set in concrete bases and connected with wire ties



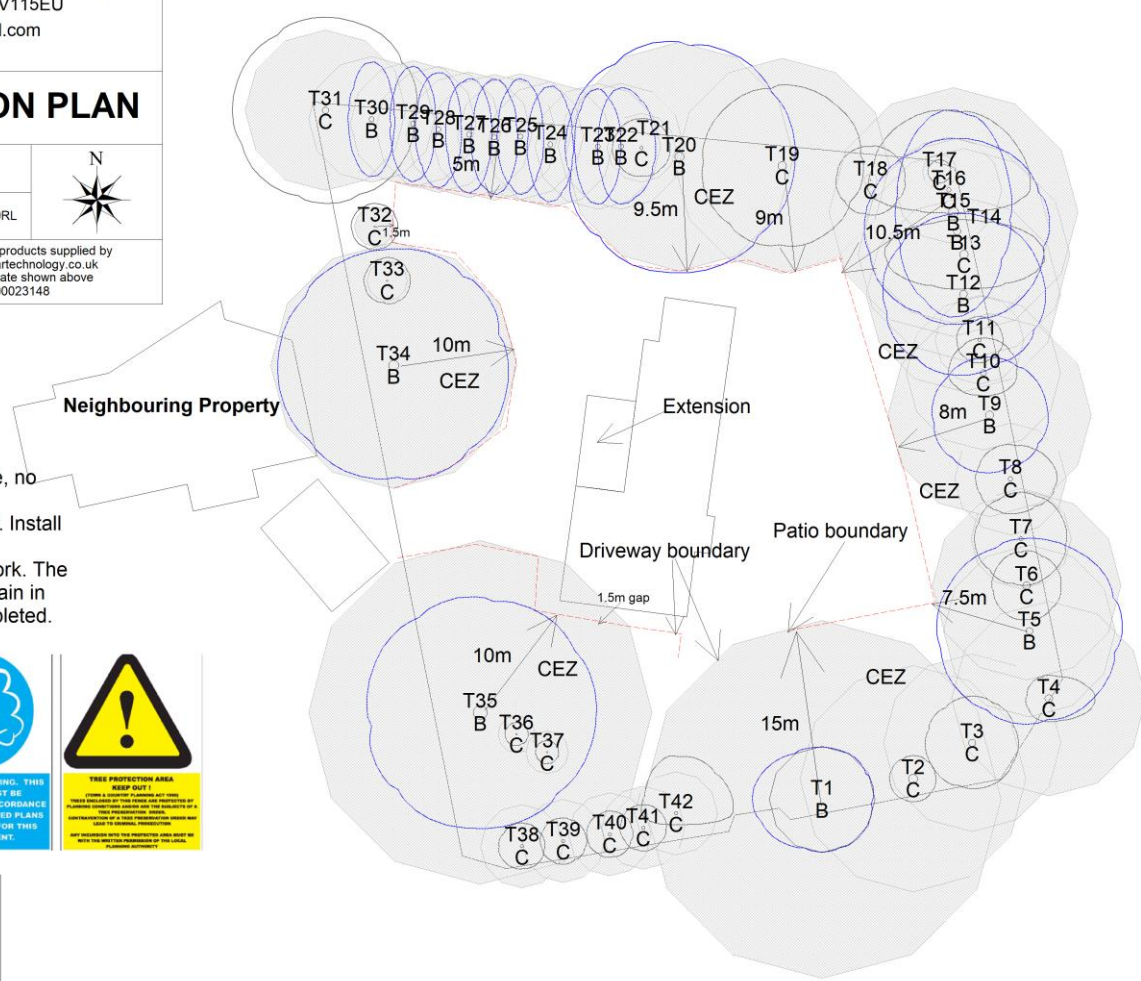
**PROTECTIVE FENCING. THIS FENCING MUST BE MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND DRAWINGS FOR THIS DEVELOPMENT.**



**TREE PROTECTION AREA KEEP OUT!**  
ENTERING A PROTECTED TREE OR SHRUB MAY BE AN OFFENCE UNDER THE PROVISIONS OF THE PROTECTION OF TREES ACT 1999. ANY BREACH OF THIS PROTECTION AREA MUST BE REPORTED TO THE LOCAL AUTHORITY IMMEDIATELY.

**KEY**

Tree Protection Fencing



## **Appendices**

### **Appendices A – Pre Development Tree Survey**

## APPENDICES A

In conforming to the guidelines of BS5837: 2012, the following details were recorded.

Estimate	#
CEZ	Construction Exclusion Zone
Tree No	Cross-referenced to the tree survey plan
Species	Common names used
Height in meters	Approximately measured on site
Stem Diameter	Taken in millimetres at 1.5m from ground level where applicable.
Branch Spread	Taken at the four cardinal points to derive a more accurate representation of the tree canopy, N, E, S, W.
Crown clearance	Height in metres of branches from the ground
Age Class	Y = Young, SM = Semi Mature, EM = Early-Mature, M = Mature, OM = Over-Mature
Physiological Condition	G = Good, F = Fair, P = Poor, D = Dead
Structural/ Condition /Comments	, e.g. Collapsing, the presence of any decay and physical defect, or any other useful comments/observations
Preliminary Management - Recommendations	Work required before commencing on site.
Remaining Contribution In years;	Less than 10, 10-20, 20-40, more than 40
Grading Category	U, (remove), A (high quality), B (medium quality), or C (low quality)  Sub – Categories 1 = mainly arboricultural qualities. 2 = mainly landscape qualities. 3 = mainly cultural values. Assessed by visual inspection, considering species, ages, condition, location, and suitability.

**Surveyed By:** Jonathan Alexander Green MArborA

**Site:** Oak House 2 Woodside Drive, Little Aston, Sutton Coldfield, B74 3BB

**Date:** March 2022

## **Development Site Tree Survey**

Tree No	Species	Height	Stem Diameter	Canopy Spread N E S W	Height of Crown Clearance	Age Class	Phys Con	Structural Condition	1 Preliminary Management Recommendations 2 Special Precautions 3 General Comments	Est Remaining Con	Cat Grading
T1	Black Poplar	35	910	N 4.5 E 4.5 S 4.5 W 6	W 2	M	Good	Good	1 Install tree protective fencing 15m from the stem. The driveway's boundary wall and bedding area will also act as a barrier. 2 No special precautions are required.  3 N/A	40+yrs	B1
T2	Black Poplar	14	790	N 2 E 2 S 2 W 2	W 2	OM	Fair	Fair	1 Install tree protection fencing. 2 No special precautions are required. 3 Habitat stick.	40+yrs	C1
T3	Sycamore	16	620	N 4 E 4 S 4 W 4	N 2	OM	Fair	Fair	1 Install tree protection fencing. 2 No special precautions are required. 3 Pollarded cavity on the stem.	40+yrs	C1
T4	Black Poplar	25	680	N 2 E 4 S 2 W 2	S 3	M	Fair	Fair	1 Install tree protective fencing. 2 No special precautions are required. 3 Moderate lean and historic limb failure.	40+yrs	C1
T5	Norway Maple	25	600	N 8 E 8 S 8 W 8	W 2.5	M	Good	Good	1 Install tree protection fencing 7.5m from the stem. 2 No special precautions are required. 3 N/A	40+yrs	B1
T6	Black Poplar	25	660	N 4 E 4 S 4 W 4	E 3	OM	Fair	Fair	1 Install tree protection fencing. 2 No special precautions are required. 3 Heavy horizontal limb over the road.	40+yrs	C1
T7	Norway Maple	20	350	N 4 E 4 S 4 W 4	W 3	M	Good	Good	1 Install tree protection fencing. 2 No special precautions are required. 3 N/A	40+yrs	C1
T8	Black Poplar	15	390	N 3 E 4 S 3 W 3	N 3	OM	Fair	Fair	1 Install tree protective fencing. 2 No special precautions are required. 3 Moderate lean, major deadwood in the crown.	40+yrs	C1



T9	Black Poplar	25	710	N 5 E 5 S 5 W 5	W 4	M	Good	Good	1 Install tree protection fencing 8m from the stem. 2 No special precautions are required. 3 N/A	40+yrs	B1
T10	Black Poplar	20	540	N 3 E 3 S 2 W 3	W 2.5	M	Good	Fair	1 Install tree protective fencing. 2 No special precautions are required. 3 Very poor form and leaning, cavity on the stem 4m heigh.	40+yrs	C1
T11	Lime	19	310	N 2 E 2 S 2 W 2	W 2.5	Y	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	C1
T12	Norway Maple	22	680	N 7 E 7 S 7 W 7	W 3	M	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 Snapped dead branch in the crown and large cavity on scaffold limb.	40+yrs	B1
T13	Black Poplar	25	740	N 3 E 7 S 3 W 7	W 6	M	Good	Fair	1 Install tree protective fencing. 2 No special precautions are required. 3 Large wound on scaffold limb.	40+yrs	C1
T14	Norway Maple	22	650	N 8 E 8 S 8 W 8	E 2	M	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	B1
T15	Black Poplar	25	870	N 9 E 5 S 9 W 5	E 6	M	Good	Fair	1 Install tree protection fencing 10.5m from the stem. 2 No special precautions are required. 3 Cavity on scaffold limb, which hangs over the road.	40+yrs	B1
T16	Sycamore	15	370	N 7 E 7 S 2 W 7	N 2.5	M	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 Moderate lean.	40+yrs	C1
T17	Leylandii	7	120	N 1 E 1 S 1 W 1	N 0.2	Y	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	C1

T18	Black Poplar	22	440	N 3 E 3 S 3 W 3	S 2.5	M	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 Moderate lean.	40+yrs	C1
T19	Ash	22	750	N 7 E 7 S 7 W 7	W 3	OM	Fair	Poor	1 Install tree protection fencing 9m from the stem. 2 No special precautions are required. 3 Inonotus hispidus infection. Neighbours tree.	40+yrs	C1
T20	Common Oak	25	800	N 10 E 10 S 10 W 10	S 3	M	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 Deadwood in the crown.	40+yrs	B1
T21	Holly	10	120, 120, 120, 120	N 2.5 E 2.5 S 2.5 W 2.5	O	M	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	C1
T22	Lime	21	440	N 5 E 3 S 5 W 2	S 4	M	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	B1
T23	Lime	21	440	N 5 E 2 S 5 W 2	S 4	M	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	B1
T24	Lime	21	440	N 5 E 2 S 5 W 2	S 4	M	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	B1
T25	Lime	21	440	N 5 E 2 S 5 W 2	S 4	M	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	B1
T26	Lime	21	440	N 5 E 2 S 5 W 2	S 4	M	Good	Good	1 Install tree protection fencing 5m from the stem. 2 No special precautions are required. 3 N/A	40+yrs	B1
T27	Lime	21	440	N 5 E 2 S 5 W 2	S 4	M	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	B1

T28	Lime	21	440	N 5 E 2 S 5 W 2	S 4	M	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	B1
T29	Lime	21	440	N 5 E 2 S 5 W 2	S 4	M	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	B1
T30	Lime	21	440	N 5 E 2 S 5 W 2	S 3	M	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	B1
T31	Common Oak	17	560	N 8 E 8 S 8 W 8	S 2	M	Fair	Fair	1 Install tree protective fencing. 2 No special precautions are required. 3 Major deadwood in the crown.	40+yrs	C1
T32	Apple	3	140	N 2 E 2 S 2 W 2	S 1.5	OM	Good	Good	1 Install tree protection fencing 1.5m from the stem. 2 No special precautions are required. 3 N/A	40+yrs	C1
T33	Apple	3	160	N 2 E 2 S 2 W 2	S 1.5	OM	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	C1
T34	Robinia	21	860	N 10 E 10 S 10 W 10	E 3	M	Good	Good	1 Install tree protective fencing 10m away from the stem. 2 No special precautions are required. 3 Deadwood in the crown.	40+yrs	B1
T35	Robinia	21	120	N 10 E 10 S 10 W 10	N 3	M	Good	Fair	1 Install tree protection fencing 10m from the stem. No more than a 1.5m gap between the fence and the southern and eastern wall of the house. 2 No special precautions are required. Protected by paving slabs/patio area 3 Co-dominant stem with decay, tomography scan required, at a later date.	40+yrs	B1
T36	Irish Yew	6	130	N 1 E 1 S 1 W 1	N 0.1	Y	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	C1
T37	Conifer	4	150	N 1 E 1 S 1 W 1	N 0.1	Y	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	C1

T38	Lawson cypress	12	290	N 2 E 2 S 2 W 2	N 1	Y	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	C1
T39	Lawson cypress	3	200	N 1 E 1 S 1 W 1	N 1	Dead	Dead	Dead	1 N/A 2 No special precautions are required. 3 Fell at a later date.	N/A	U1
T40	Lawson cypress	29	290	N 2 E 2 S 2 W 2	N 1	Y	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	C1
T41	Lawson cypress	12	290	N 2 E 2 S 2 W 2	N 1	Y	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 N/A	40+yrs	C1
T42	English Yew	12	290	N 5 E 5 S 1 W 3	N 1.5	Y	Good	Good	1 Install tree protective fencing. 2 No special precautions are required. 3 Moderate lean.	40+yrs	C1

## APPENDICES B

Photos:

This photo shows the drive and boundary wall.



This photo shows the area to be extended.



This photo shows T6.



This photo shows T8.



This photo shows T12.



This photo shows T39.



This photo shows T35.

