GHA Trees
5 South Drive
High Wycombe
Bucks
HP13 6JU

Glen Harding MICFor
MSc (Forestry), MArborA
t: 07884 056025
e: info@ghatrees.co.uk
www.ghatrees.co.uk

BS5837:2012 TREE SURVEY AND ARBORICULTURAL IMPACT ASSESSMENT: Site at Lodge Road, Hurst

Dated: 10th September 2025

Our reference: GHA/DS/160447:25

CONTENTS

Arboricultural Impact Assessment

Location: Site at Lodge Road, Hurst
Our reference: GHA/DS/160447:25
Client: Forays Homes
Dated: 10th September 2025
Prepared by: Glen Harding MICFor, MSc (Forestry), MArborA
Date of Inspection: 4th February 2025

Instructions

Issued by – Forays Homes

TERMS OF REFERENCE – GHA Trees were instructed to survey the subject trees within and adjacent to Site at Lodge Road, Hurst, in order to assess their general condition and to provide a planning integration statement for the indicative proposed development that safeguards the long term wellbeing of the retained trees in a sustainable manner.

Executive Summary

The proposal for the site is to construct three new houses accessed from Hurst Lane to the west. The proposed scheme requires the removal of a small number of relatively insignificant (C and U category) trees and shrubs, which will not significantly impact the local or wider landscape. The development presents an excellent opportunity to plant some new trees, to enhance the site and local area for the future. The retained trees require protection in accordance with industry best practice and BS 5837: 2012 – Trees in relation to design, demolition and construction – recommendations, in order to ensure their longevity.

Documents Supplied

The client supplied the following documents:

- Topographical survey
- Existing layout plans
- Proposed layout plans

Scope of Survey

1.1 The survey is concerned with the arboricultural aspects of the site only.

1.2 The planning status of the subject property was not investigated in detail.

1.3 A qualified Arboriculturist undertook the report and site visit and the contents of this report are based on this. Whilst reference may be made to built structure or soils, these are only opinions and confirmation should be obtained from a qualified expert as required.

1.4 Trees in third party ownership were surveyed from within the subject property, therefore a detailed assessment was not possible and some (if not all) measurements were estimated. Where the stem location of a third party tree has been estimated, this is noted on the plan.

1.5 Dense vegetation or climbers (such as ivy) also prohibited full inspections for some trees; this is noted where applicable.

1.6 No discussions took place between the surveyor and any other party.

1.7 The trees were inspected on the basis of the Visual Tree Assessment method expounded by Mattheck and Breleor (The body language of tree, DoE booklet Research for Amenity Trees No. 4, 1994)

1.8 The survey was undertaken in accord with British Standard 5837: 2012 – Trees in relation to design, demolition and construction – recommendations.

1.9 The client's attention is drawn to the responsibilities under the Wildlife and Countryside Act (1981).

Survey Method

2.1 The survey was conducted from ground level with the aid of binoculars if needed.

2.2 No tissue samples were taken nor was any internal investigation of the subject trees undertaken.

2.3 No soil samples were taken.

2.4 The height of each subject tree was estimated using a clinometer and recorded to the nearest half metre.

2.5 The stem diameter for each tree was measured in line with the requirements set out in BS 5837: 2012 – Trees in relation to design, demolition and construction – recommendations.

2.6 The crown spreads were measured with an electronic distometer and recorded to the nearest half metre. Where the crown radius was notably different in any direction this has been noted on the Plan (appendix A) and within the tree table (Appendix B). The crowns of those trees that are proposed for removal, or trees where the crown spread is deemed insignificant in relation to the proposed development are not always shown on the appended plan; however their stem locations are marked for reference.

2.7 The Root Protection Area (RPA) for each tree is included in the tree table, both as an area, and as the radius of a circle.

2.8 The crown clearance was measured using a clinometer and recorded to the nearest half metre. Where it is significantly lower in one direction, this is noted within the tree table at appendix B.

2.9 All of the trees that were inspected during the site visit are detailed on the plan at Appendix A; this plan was produced in colour and **MUST** only be scanned or reproduced in colour. The trees on this plan are categorised and shown in the following format:

COLOUR CODING AND RATING OF TREES:

Category A – Trees of high quality with an estimated remaining life expectancy of at least 40 years. Colour = light green crown outline on plan.

Category B – Trees of moderate quality with an estimated remaining life expectancy of at least 20 years. Colour = mid blue crown outline on plan.

Category C – Trees of low quality with an estimated remaining life expectancy of at least 10 to 20 years, or young trees with a stem diameter below 150mm. Colour = uncoloured crown outline on plan.

Category U – Those in such a condition that they cannot realisitically be retained as living trees in the context of the current land use for longer than 10 years. Colour = red crown outline on plan.

All references to tree rating are made in accordance with BS 5837: 2012 – Trees in relation to design, demolition and construction – recommendations', Table 1.

The Site

3.1 The site is located on Lodge Road in the village of Hurst.

The Subject Trees

4.1 The details of the subject trees are set out in the Schedule at Appendix B.

4.2 Please be aware that ash tree(s) were identified during the survey. Many ash trees in the UK are suffering from 'ash dieback' (*Hymenoscyphus fraxineus)* which can cause the rapid decline of affected trees, often rendering them unsafe. Affected trees have been highlighted in the tree table at appendix B and the severity of the infection noted; however please ensure these trees are inspected regularly.

4.3 Of the thirty-five individual trees and groups of trees surveyed, nine have been assessed as BS category B, twenty-two have been assessed as BS category C with the remaining trees being assessed as BS 5837 category U.

Category B	9 trees / groups
Category C	22 trees / groups
Category U	4 trees

The Proposal

5.1 The proposal for the site is to construct three new houses accessed from Hurst Lane to the west.

5.2 The proposed location of the above structures can be seen on the appended plan.

Arboricultural Impact Assessment

PROPOSED TREE REMOVAL / RETENTION:

6.1 The following trees are proposed for removal as part of the new development, as these specimens could not be effectively retained as they are located within the outline of the new structures, or located too close to make their retention feasible / sustainable.

T9, T10, T11, T12, T34 and section of G35

6.2 All of the trees to be removed have been given either a C or U category grading in accordance with BS 5837. It is therefore felt that these trees should not act as

a limitation on the effective use of the site, or impose any significant constraints on the layout (see table 1 BS5837).

6.3 The assessed grading (as per BS5837 table 1) of each of the trees to be removed, as well as any relevant comments on their condition can be seen in the tree table at appendix B.

TREE PRUNING TO ACCOMODATE THE PROPOSAL OR ACCESS TO THE SITE

6.4 The implementation of the proposal does not lead to the requirement to prune any of the retained trees.

6.5 There is no part of the new structure which will have tree canopies (from trees to be retained) overhanging it and the building works can progress safely without the need for any facilitation pruning.

ASSESSMENT OF RETAINED TREES ROOT PROTECTION AREAS

6.6 Section 4.6.3 of BS 5837: 2012 states that the Root Protection Area (RPA) of each tree should be assessed by an arboriculturalist considering the likely morphology and disposition of the roots, when known to be influenced by past or existing site conditions.

6.7 The assessed RPAs (excluding the RPAs of U category trees and those trees which are proposed for removal) can be seen on the appended plan where some have amended to take account of the existing structures.

ASSESSED IMPACT ON RPAS BY PROPOSED STRUCTURES

6.8 The proposed new structures are situated outside of the assessed RPAs of all of the trees proposed for retention; therefore, these trees pose no below ground constraints on the new structures or vice versa.

6.9 New services must be routed to avoid all RPAs of retained trees on site and within nearby sites. From an assessment of the subject site, undertaken in conjunction with the project architect, there is no reason to assume this isn't possible. Inspection chambers must be sited outside the RPA.

Post Development Pressure

FUTURE TREE AND STRUCTURE RELATIONSHIPS

7.1 The retained trees are at a satisfactory distance from the proposed new buildings and highly unlikely to give rise to any inconvenience.

7.2 Regular inspections of the retained trees by a suitably qualified Arboriculturalist and subsequent remedial works will ensure that the trees are maintained in a suitable manner, to exist in harmony with the new structures and its occupants for many years to come.

REMEDIATION / REPLACEMENT PLANTING

7.3 An assessment of suitable planting sites within the proposed development area confirms that the loss of trees discussed in section 6.1 can be addressed by the planting of new trees that would complement the existing landscape.

7.4 Any new trees that are planted should be selected to ensure they do not become a nuisance and that the level of routine maintenance is low.

Tree Protection Measures and Preliminary Method Statement for Development Works

8.1 TREE WORK

A list of all tree works that are required (including trees to be removed) is included in the tree table at Appendix B. Where any tree work is needed, this work **MUST** be in accordance with British Standard 3998 – 2010 (Tree Work - Recommendations).

8.2 TREE PROTECTION BARRIERS

It is essential for the future health of the trees to be retained on site, that all development activity is undertaken outside the root protection zone of these trees. The position of the fence **MUST** be marked out with biodegradable marker paint on site and agreed with appropriate representatives from the LPA and contractor. The fencing **MUST** be erected **prior** to any works in the vicinity of the trees and removed only when all development activity is complete. The protective fencing **MUST** be as that shown in BS 5837 (see Appendix C). The herras panels **MUST** be joined together using a minimum of two anti-tamper couplers which **MUST** be installed so they can only be removed from the inside of the fence. The panels **MUST** supported by stabilizer struts, which **MUST** be installed on the inside and secured to the ground using pins or appropriate weights.

The Fence must be marked with a clear sign reading:

"Construction Exclusion Zone – No Access"

8.3 BOUNDARY TREATMENTS

Boundary fencing installation / upgrades **MUST** be undertaken as part of the soft landscaping phase and **MUST** be installed ONLY when all machinery that is on site for the main build has permanently left the site (NB. If needed, boundary fencing can also be installed prior to the commencement of site works, i.e.. before any machinery has been bought onto the site). Where sections of new / upgraded fencing are located within the RPA of ANY tree that is to be retained, this work **MUST** be undertaken by hand using hand tools only. The locations of the new fence upright posts will be finalised following trial digs to confirm there are no major (over 25mm) roots present; if any such roots are found, the location must be altered. If any smaller roots are found, these can be cut using sharp hand sharp tools to leave a 'clean' cut, in order to minimise the risk of infection by decay pathogens. The post holes within the RPAs should then be lined with plastic sheeting before any concrete or cement is placed into the hole, in order that there is no risk of leaching into the nearby soil as the mixture dries.

8.4 SITE HUTS, WELFARE FACILITIES AND STORAGE OF EQUIPMENT, MATERIALS AND CHEMICALS

All site huts **MUST** be positioned outside of the retained trees RPAs.

8.5 MIXING OF CONCRETE

All mixing of cement / concrete **MUST** be undertaken outside of the RPA of all of the retained trees.

8.6 INCOMING SERVICES, DRAINAGE AND SOAKAWAYS

New services **MUST** be routed to avoid all RPAs of retained trees on site and within nearby sites. From an assessment of the subject site, undertaken in conjunction with the project architect, there is no reason to assume this isn't possible. Inspection chambers **MUST** be sited outside the RPA.

8.7 ON SITE SUPERVISION

Regular site supervision is essential to ensure all potentially damaging activities near to trees are properly supervised. A pre start site meeting **MUST** occur to ensure all parties are aware of their responsibilities relating to tree protection on site; this **MUST** include a site induction for key personnel.

Key personnel:

Name	**Position**	**Contact number / email:**
Glen Harding	Retained arboriculturalist	07884 056 025 Or info@ghatrees.co.uk
TBC	Local authority Arboricultural Officer	TBC
TBC	Site manager	TBC

After this pre start meeting, day-to-day responsibility for tree protection will be devolved to the site manager who will make contact with the retained arboriculturalist as needed.

8.8 OTHER TREE PROTECTION PRECAUTIONS

- **NO** fires lit on site within 20 metres of any tree to be retained.
- **NO** fuels, oils or substances with will be damaging to the tree shall be spilled or poured on site.
- **NO** storage of any materials within the root protections zone.

8.9 HARD / SOFT LANDSCAPING NEAR RETAINED TREES

All new pathways and hard landscaping areas within the Root Protection Areas (RPAs) of the retained trees **MUST** be designed using no-dig, up and over construction techniques, and be specified in close co-ordination with the retained Arboriculturalist. Porous materials **MUST** also be used when surfacing near the trees. No machinery will be used for this work, which **MUST** all be done by hand.

8.10 DISMANTLING PROTECTIVE BARRIERS

Protective barriers must only be completely removed when all machinery, and equipment has left site.

Conclusion

9.1 In conclusion, the principal arboricultural features within the site can be retained and adequately protected during development activities.

9.2 No significant or important trees will be lost to facilitate the proposed scheme.

9.3 Subject to precautionary measures as detailed above, the proposal will not be injurious to trees to be retained.

Recommendations

10.1 Site supervision – An individual e.g. the Site Agent, must be nominated to be responsible for all arboricultural matters on site. This person must:

a. Be present on the site the majority of the time.
b. Be aware of the arboricultural responsibilities.
c. Have the authority to stop any work that is, or has the potential to cause harm to any tree.
d. Be responsible for ensuring that all site personnel are aware of their responsibilities towards trees on site and the consequences of the failure to observe those responsibilities.
e. Make immediate contact with the local authority and / or retained arboriculturalist in the event of any related tree problems occurring whether actual or potential.

10.2 It is recommended, that to ensure a commitment from all parties to the healthy retention of the trees, that details are passed by the architect or agent to any contractors working on site, so that the practical aspects of the above precautions are included in their method statements, and financial provision made for these.

10th September 2025
Signed:

Glen Harding MICFor, MSc (Forestry), MArborA
For and on behalf of GHA Trees

Appendix A
TREE PLAN
(see separate PDF)

Appendix B
TREE TABLE

Tree Number	Tree Name (species)	Ht (m)	Calculated Stem Diameter (mm)	Number of Stems	Root Protection Area (Radius, m)	N (m)	E (m)	S (m)	W (m)	Age Class	Clearance (m)	Estimated life expectancy	BS Category	Comments / Recommendations
T1	Ash	17	696	2	8.36	8	8	8	6	M	6 west	10-20	C1	Ivy prevented inspection. Early signs of Ash dieback noted. Minor crown dieback observed from ground level.
T2	Ash	17	524	4	6.29	2	8	8	2	M	4 east	10-20	C1	Poor fork / stem union at ground level. Early signs of Ash dieback noted. Minor crown dieback observed from ground level.
T3	Oak	15	210	1	2.52	0	1	3	3	M	5	10-20	C1	Spindly / suppressed tree.
T4	Oak	17	410	1	4.92	3	1	2	4	M	6	20-40	B1	One sided crown but should develop into full crown as it matures further so has future potential.
T5	Ash	17	537	2	6.45	2	8	5	2	M	4 east	10-20	C1	Poor fork / stem union at ground level. Early signs of Ash dieback noted. Minor crown dieback observed from ground level.
T6	Ash	15	150	1	1.80	2	3	0	0	OM	8	Less than 10	U	Spindly / suppressed tree. Early signs of Ash dieback noted. Minor crown dieback observed from ground level.

Tree Number	Tree Name (species)	Ht (m)	Calculated Stem Diameter (mm)	Number of Stems	Root Protection Area (Radius, m)	N (m)	E (m)	S (m)	W (m)	Age Class	Clearance (m)	Estimated life expectancy	BS Category	Comments / Recommendations
T7	Ash	16	367	6	4.41	5	6	3	2	M	4 east	10-20	C1	Poor fork / stem union at ground level. Early signs of Ash dieback noted. Minor crown dieback observed from ground level.
T8	Oak	16	450	1	5.40	7	1	2	6	M	6	20-40	B1	One sided crown but should develop into full crown as it matures further so has future potential.
T9	Ash	16	588	6	7.05	3	6	5	5	M	4 east	10-20	C1	Poor fork / stem union at ground level. Early signs of Ash dieback noted. Minor crown dieback observed from ground level. Recommend: to be removed.
T10	Ash	16	280	1	3.36	4.5	4	0	6	M	5	10-20	C1	Early signs of Ash dieback noted. Minor crown dieback observed from ground level. Recommend: to be removed.
T11	Ash	12	272	2	3.26	2	0	5	1	OM	5	Less than 10	U	Bark delamination on main stem. Advanced signs of ash dieback. Significant crown dieback observed from ground level. Recommend: to be removed.

Tree Number	Tree Name (species)	Ht (m)	Calculated Stem Diameter (mm)	Number of Stems	Root Protection Area (Radius, m)	N (m)	E (m)	S (m)	W (m)	Age Class	Clearance (m)	Estimated life expectancy	BS Category	Comments / Recommendations
T12	Ash	17	462	3	5.55	5.5	2	3	7	OM	5	Less than 10	U	Bark delamination on main stem. Advanced signs of ash dieback. Significant crown dieback observed from ground level. Recommend: to be removed.
G13	Ash	14	320	1	3.84	3	6	6	3	M	4 east	10-20	C2	Early signs of Ash dieback noted. Minor crown dieback observed from ground level.
T14	Elm	10	304	4	3.65	3.5	3.5	3.5	3.5	M	2	10-20	C1	Off site - full inspection not possible. Some measurements estimated.
T15	Oak	10	200	1	2.40	2	5	4	2	M	5 west	20-40	B1	Off site - full inspection not possible. Some measurements estimated.
T16	Beech	10	200	1	2.40	4	3	4	4	M	4	20-40	B1	Off site - full inspection not possible. Some measurements estimated.
T17	Eucalyptus	18	922	2	11.06	8	11	9	4	M	2 south	20-40	B1	Heavy lean to east. Off site - full inspection not possible. Some measurements estimated.

Tree Number	Tree Name (species)	Ht (m)	Calculated Stem Diameter (mm)	Number of Stems	Root Protection Area (Radius, m)	N (m)	E (m)	S (m)	W (m)	Age Class	Clearance (m)	Estimated life expectancy	BS Category	Comments / Recommendations
T18	Oak?	8	300	1	3.60	2	12	2	0	M	2	10-20	C1	Suppressed by T17. Off site - full inspection not possible. Some measurements estimated.
T19	Hornbeam	7	150	1	1.80	0	5	4	0	M	1 south	10-20	C1	Suppressed by T17.
T20	Hornbeam	14	180	1	2.16	2	2	5	2	M	2 south	20-40	B2	Off site - full inspection not possible. Some measurements estimated.
G21	Acer ssp	13	180	1	2.16	2	5	5	2	M	2 south	20-40	B2	Off site - full inspection not possible. Some measurements estimated.
T22	Birch	9	215	2	2.58	4	4	4	4	M	2	20-40	B1	Off site - full inspection not possible. Some measurements estimated.
T23	Ash	13	700	1	8.40	5	5	9	5	M	4 south	10-20	C1	Off site - full inspection not possible. Some measurements estimated.
T24	Oak	9	190	1	2.28	1	3	4	3	M	1	10-20	C1	Future potential.
T25	Ash	9	200	1	2.40	3	3	3	3	M	2	10-20	C1	Off site - full inspection not possible. Some measurements estimated.
T26	Oak	17	900	1	10.80	7	7	3	4	OM	4	Less than 10	U	Dead tree

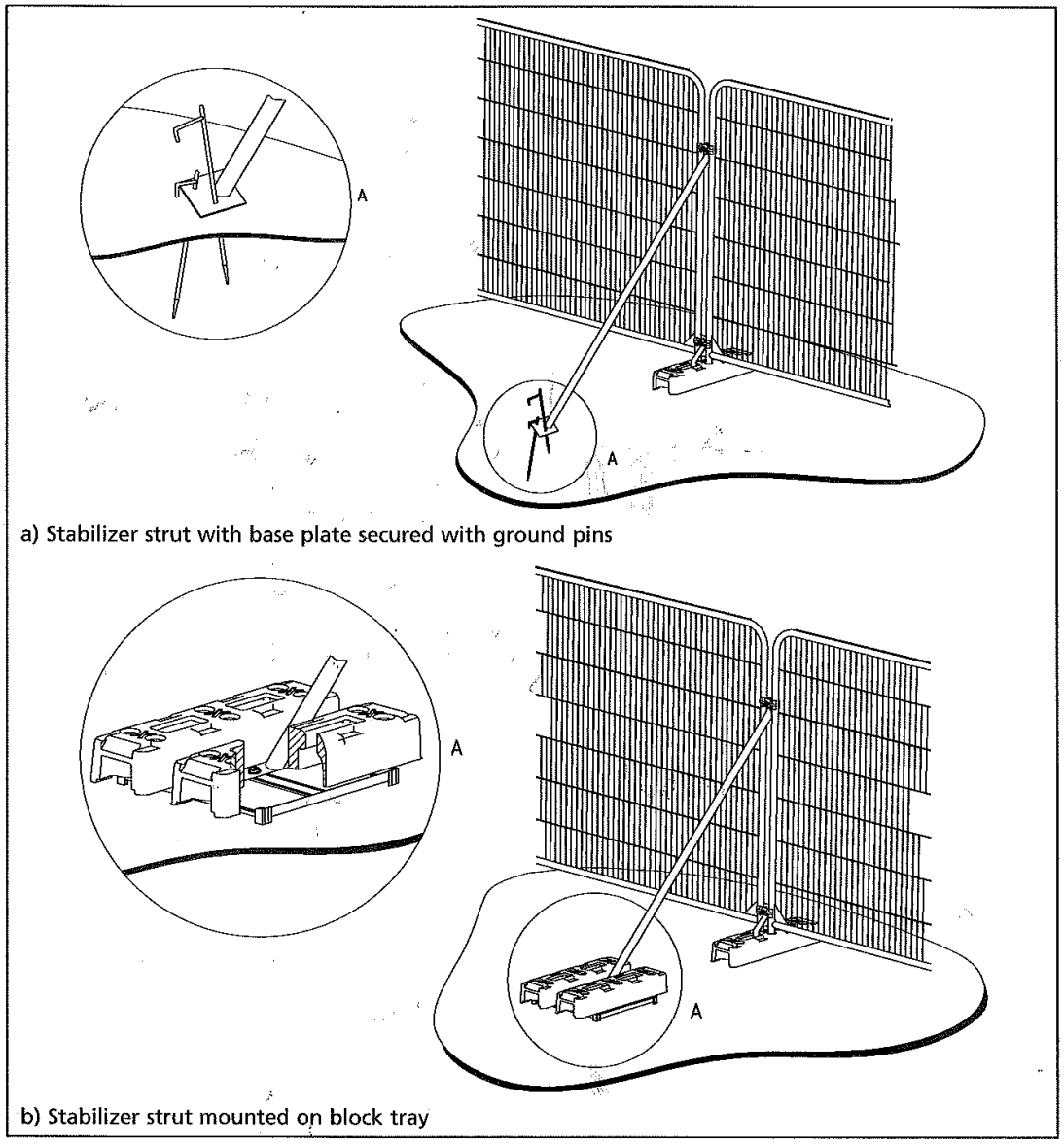
Tree Number	Tree Name (species)	Ht (m)	Calculated Stem Diameter (mm)	Number of Stems	Root Protection Area (Radius, m)	N (m)	E (m)	S (m)	W (m)	Age Class	Clearance (m)	Estimated life expectancy	BS Category	Comments / Recommendations
G27	Willow	6 to 10	140	1	1.68	4.5	4.5	4.5	4.5	M	2	10-20	C2	Scrub growth.
G28	Field maple and hawthorn	8 to 12	150	1	1.80	3	3	3	3	M	2	10-20	C2	Lapsed hedge.
G29	Ash and oak	16	700	1	8.40	6	6	6	6	M	4	20-40	B2	Vegetation near base of tree prevented full and detailed inspection.
G30	Cherry and oak	8	100	1	1.20	3	3	3	3	MA	2	10-20	C2	Small trees of limited value in the wider landscape.
G31	Poplar	17	240	1	2.88	2.5	2.5	2.5	2.5	MA	2	10-20	C2	Self sets. Tightly packed poorly formed trees.
T32	Prunus	8	416	12	4.99	3	3	3	3	M	1	10-20	C1	Unremarkable tree of modest quality and of limited value in the wider landscape.
T33	Prunus	8	339	8	4.07	3.5	3.5	3.5	3.5	M	1	10-20	C1	Unremarkable tree of modest quality and of limited value in the wider landscape.
T34	Prunus	8	300	9	3.60	4	4	5	4	M	0	10-20	C1	Unremarkable tree of modest quality and of limited value in the wider landscape. Recommend: to be removed.

Tree Number	Tree Name (species)	Ht (m)	Calculated Stem Diameter (mm)	Number of Stems	Root Protection Area (Radius, m)	N (m)	E (m)	S (m)	W (m)	Age Class	Clearance (m)	Estimated life expectancy	BS Category	Comments / Recommendations
G35	Scrub / self sets - ash, lime, hawthorn, oak, acer	3 to 5	100	1	1.20	as topo				MA	1	10-20	C2	Scrub growth comprising self set trees of mostly poor form and with some grazing damage. Recommend: section to be removed.

KEY :
Tree No: (T= individual tree, G= group of trees, W= woodland)
Age class: Young (Y), Middle aged (MA), Mature (M), Over mature (OM), Veteran (V)
Height (Ht): Measured in metres +/- 1m

Appendix C
TREE FENCING DETAIL

Figure 3 **Examples of above-ground stabilizing systems**



a) Stabilizer strut with base plate secured with ground pins

b) Stabilizer strut mounted on block tray