Arc Arboricultural Solutions

Tree Survey

Preliminary Arboricultural Impact Assessment and Method Statement

Highfields
West Hill
East Grinstead
RH19 4DL

(TQ 39003 37820)

Job Ref	Version	Author	Agent	Client	Date
AAS/0511	Rev 01	RR	Westbournes	LPS	21/11/2024

Arc Arboricultural Solutions

Contents

Arboricultural Consultant	Roz Richardson	arc.arboriculturalsolutions@gmail.com	07553870759	12 High Street, Pulloxhill Bedfordshire MK45 5HA
Agent	Westbournes	-	-	The Bloomsbury Building, 10 New Oxford Street, London, WC1A 2SL
Client	LPS	www.lps.pm	-	-
Local Authority	Mid Sussex District Council	enquiries@midsussex.gov.uk	01444 458166	Mid Sussex District Council, Oaklands, Oaklands Road, Haywards Heath, West Sussex, RH16 1SS

Roz Richardson

Relevant Qualifications

Technicians Certificate in Arboriculture (ABC)

Arborist Certificate (International Society Arboriculture)

Certificate Arboriculture (Royal Forestry Society)

LANTRA Professional Tree Inspection

BSc Hon Environment Management (Forestry, Plant Biology & Soils Modules)

HND Environmental Land Management (Forestry, Woodland Management, Soils & Plant Biology modules)

ND Countryside Recreation, (Woodland Management, Soils and Plant Biology modules)

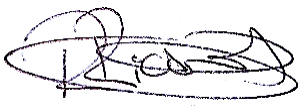
Professional Membership

Professional Member of the Arboricultural Association since 2019

Membership number PR7134

Experience

My industry experience comprises 20 yrs. as an Arboricultural/Tree Officer at four local authorities, with a supporting background in land management, soil water management, tree surgery and contract forestry.



Arc Arboricultural Solutions

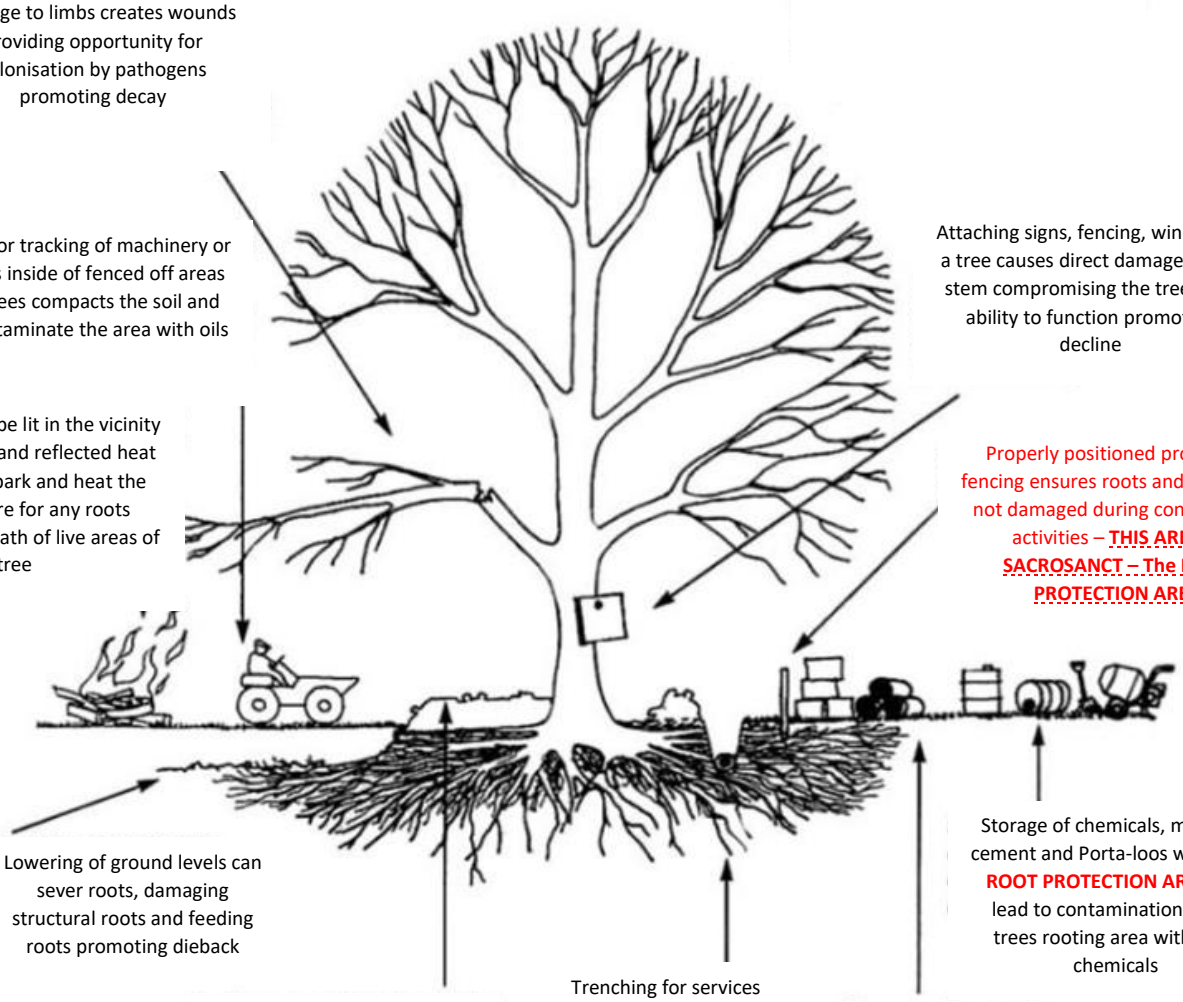
Common Causes of Tree Deaths which Must Be Avoided

Damage to limbs creates wounds providing opportunity for colonisation by pathogens promoting decay

Parking or tracking of machinery or vehicles inside of fenced off areas near trees compacts the soil and can contaminate the area with oils

Attaching signs, fencing, winches to a tree causes direct damage to the stem compromising the tree in its ability to function promoting decline

Fires should not be lit in the vicinity of trees, flames and reflected heat scorch leaves, bark and heat the round up there for any roots leading to the death of live areas of a tree



Properly positioned protective fencing ensures roots and stems are not damaged during construction activities – **THIS AREA IS SACROSANCT – The ROOT PROTECTION AREA**

Storage of chemicals, mixing of cement and Porta-loos within the **ROOT PROTECTION AREA** can lead to contamination of the trees rooting area with toxic chemicals

Lowering of ground levels can sever roots, damaging structural roots and feeding roots promoting dieback

Raising of ground levels can suffocate roots promoting dieback

Trenching for services within a **ROOT PROTECTION AREA** severs roots compromising stability and promoting dieback – Industry guidance provided by NJUG 2007 & BS 5837 2012 Fig 4

Storage of materials within the **ROOT PROTECTION AREA** and cause compaction

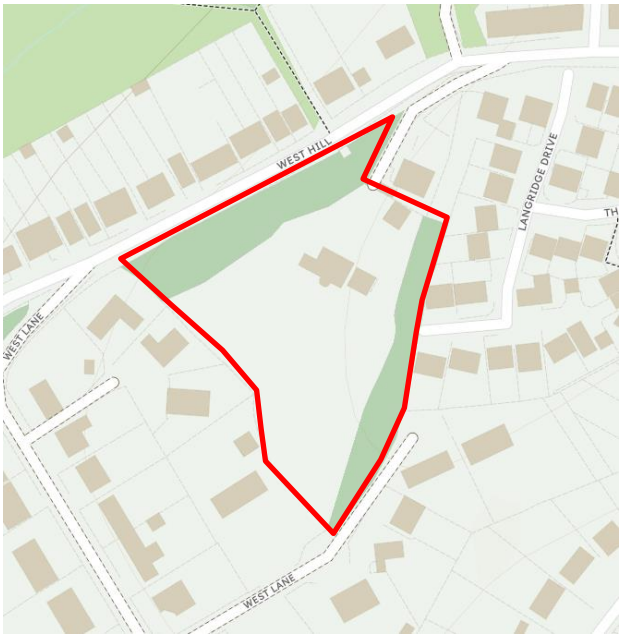
1.0 Introduction and Term of Reference

1.1 Arc Arboricultural Solutions Ltd has been instructed by LPS to undertake a Tree Survey, preliminary Arboricultural Impact Assessment and Method Statement at Highfields, West Hill, East Grinstead, RH19 4DL; following guidance in BS 5837 2012 Trees in Relation to Demolition, Design and Construction – Recommendations

1.2 The site survey was carried out on 26th November 2024 by Roz Richardson - This survey is based on a preliminary site survey; trees on site and immediately adjacent to the site have been inspected and relative qualitative tree data recorded in the Tree Schedule. Initial constraints upon the prospective development have been determined based on the information provided and the necessary protection and construction specifications required to allow their retention provided.

1.3 The report, any attached documents and subsequent revisions will form part of the supporting documents of any formal planning application in respect of the site and as such will be open to public scrutiny and comment.

Figure 1 – Screen shot from OS Maps showing location of Highfields



2.0 Limitations

2.1 The content of this report is valid for one year from the date shown on the title page.

2.2 The tree survey has been carried out from ground level using non-invasive methods using the Visual Tree Assessment (VTA) method developed by Mathheck and Breloer (1994); the survey is for the purpose of categorising tree(s) for future development. Trees are dynamic living organisms whose health and condition can be subject to rapid change depending on internal and external factors. While preliminary tree management recommendations have been provided this document is not a tree safety report.

2.3 The content and layout of this report are owned by the author, this report may not be copied or used without the author's agreement for any purpose other than the purpose indicated in this report.

The report was prepared by the author at the instruction of and for the use by the client named within the report. The author provides the advice without prejudice and bases his opinions on knowledge, experience, qualifications and published research and cannot be held responsible for the consequences of a difference of opinion held by third parties, for example the Local Planning Authority or Planning Inspector. The author does not accept liability for any loss or damage arising from reliance on the content of this report.

3.0 Statutory Obligations

3.1 Trees

3.1.1 Trees may be afforded statutory protection under a Tree Preservation Order (TPO) or designated Conservation Area (CA).

3.1.2 CA status affords living trees that exceed 75mm at 1.3m above ground level legal protection. Full planning consent (not outline) will override the need for any further application for tree work operations, providing that details of all tree works are included in submission and subsequently approval of any planning application by the local planning authority

3.1.3 TPO status affords individual trees, groups, areas, or woodlands listed on a TPO schedule and plotted on a plan legal protection. Unauthorised works to trees is an offence and carries penalties.

3.1.4 The local planning authority can make new TPOs at any time without advanced notice. It is common for LPAs to make new TPOs on receipt of details of projects that may harm trees. Penalties for offences relating to TPO trees include, but are not exclusive to, lopping, topping, damaging or destroying trees which can be unintentionally caused by such simple means as damaging the soil structure around the trees during site preparation or building work.

The effect of a Tree Preservation Order is that a formal application will normally need to be submitted to the local planning authority (LPA) (subject to exceptions) for tree works. Such an application may be refused, approved, or approved subject to conditions. There is a right of appeal against refusals, conditions, or non-determination.

Unauthorised work, wilful damage, or destruction etc is a criminal offence, on summary conviction leading to fines of up to £20,000 per tree and on indictment, to an unlimited fine and/or imprisonment. All trees are a 'material consideration' in the town planning context and extra weight is normally given to those the subject of the above statutory protection. If TPOs are applied, it is imperative that the LPA is consulted with respect to any activities that affect trees whether directly or indirectly.

3.2 Hedges

3.2.1 Hedges may be protected under the Hedgerow Regulations 1997 and a requirement for a hedgerow removal notice required. Where a hedgerow is 20m or more in length and meets another hedgerow, if the hedge is located on or alongside one of the following: -

- Agricultural land, grazing/paddock land
- Common land, including town or village greens.
- Land used for forestry or the breeding or keeping of horses, ponies, or donkeys; or
- A Local Nature Reserve or Site of Special Scientific Interest.

Full planning consent (not outline) will override the need for any further application for a hedgerow notification, providing no 'conditions' are applied on a decision notice being issued.

3.3 Wildlife

3.3.1 Wildlife – prior to undertaking any tree works the laws in respect of protected species and habitats needs to be observed. Where tree works are required advice may be required from a suitably qualified person prior to being able to proceed, this may require tree works being scheduled outside of the bird nesting period, typically March – August inclusive.

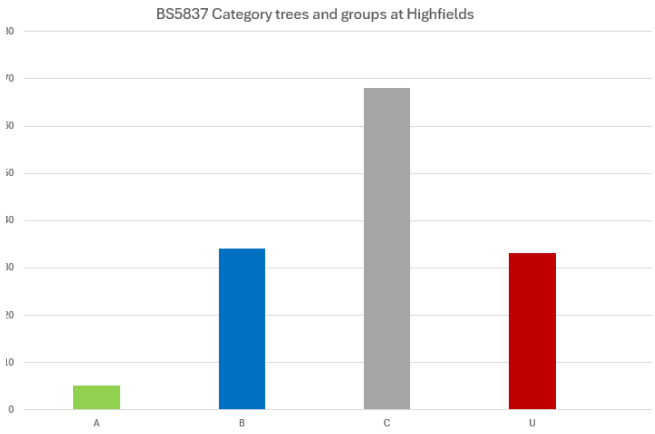
The following legislation protects various habitats and species of animals in the UK: -

- Wildlife and Countryside Act 1981(as amended)
- Natural Environment and Rural Communities Act 2006 (NERC Act)
- Conservation of Habitats and Species Regulations 2010 (as amended)
- Protection of Badgers Act 1992
- The Hedgerows Regulations 1997
- Countryside and Rights of Way Act 2000

4.0 Executive Summary

4.1 A total of 140 trees, groups and hedges/wooded areas have been surveyed, summary of findings is shown below, full details in the tree schedule Appendix 1.

Table 1 – Tree categorisation



4.2 It is proposed to remove the existing dwelling, create a new access road from West Hill and construct a new care home and annex with associated infrastructure.

4.3 There will be minor encroachment into the Root Protection Area (RPA) of five retained trees.

4.4 Thirty-eight trees have been identified for removal, of those twenty-six are for reasons of Health and safety, twelve have been identified to facilitate the development. - further details are provided in the tree schedule Appendix 1.

Table 2 - Development impacts and mitigation measures.

Potential Development Impact	Tree(s) Affected	Mitigation Measures
Removal of trees due to incompatibility with development	G1848/1a, b, 3xW1804, 1849, 1851, 1852, 1870, 1872, 1875, 1879	Landscaping scheme with replacement planting

Table 3 - Tree Works to facilitate development

Tree ID	Proposed Works
G1848/1a, b, W1804, 1849, 1851, 1852, 1870, 1872, 1875, 1879	Remove due to incompatibility with development
1853, 1918, 1928	Hand excavation and root pruning
1813, 1814, 1815, 1824, 1826, 1827, 1830, 1833, 1834, 1835, 1837, 1838, 1841, 1842, 1843, 1844, 1845, 1847, 1854, 1855, 1861, 1868, 1869	Remove – category 'U' trees.

5.0 Survey Methodology

5.1 Trees on or adjacent to the site have been attributed a retention category as detailed in British Standard 5837 2012 'Trees in Relation to Design, Demolition & Construction – Recommendations'. The Root Protection Area (RPA) of individual trees or the largest tree within a group has been calculated based on its stem diameter and this has been used to produce a Tree Constraints and Protection Plan – see Appendix 2

5.2 Individually surveyed trees have been given a notional identification e.g. T1, T2, groups of trees G1, G2, woodland W1, W2 and hedgerows H1, H2. Full survey details and work recommendations.

5.3 Tree Categorisation - Trees of A and B category should be considered as constraints to development, informing layout and design every attempt should be made to provide space for category A and B trees to enhance and flourish within a design while not placing post development pressure upon any retained tree. Trees of a C category will not usually be retained where they would impose a significant constraint to development. U category trees are in such a condition that they will be lost within 10 years and may be removed as good arboricultural practice.

All survey data is presented in the tree schedule– Appendix 1.

6.0 Site Overview and Project details.

6.1 Highfields is a detached property occupying approximately 1.3 ha accessed from the north from West Hill.

Figure 2 – Google Earth screen shot of Highfields

6.2 The proposed project seeks to demolish the existing dwelling and construct a care home and create a new access from the western boundary off West Hill.

Figure 3 - Site existing

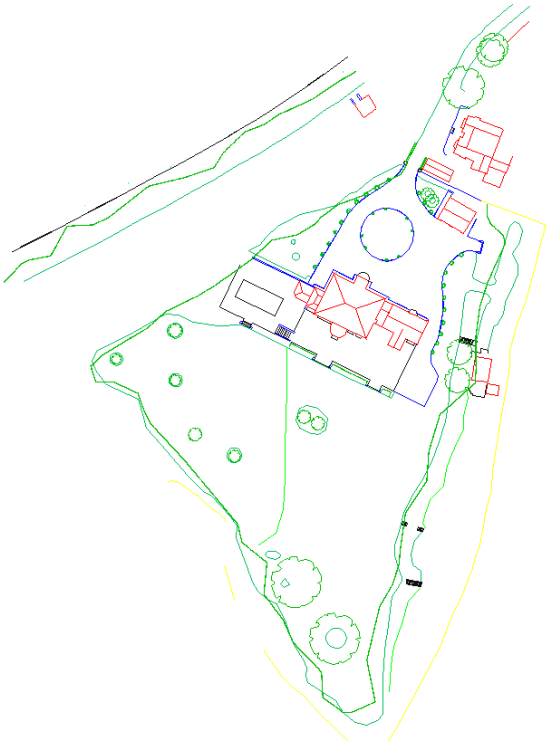


Figure 4 – Proposed layout

6.2 Details of statutory controls (TPO and CA) have been obtained from Mid Sussex District Council online mapping service: -

- Conservation Area – N/A
- Tree Preservation Orders – GR/04/TPO/84

6.3 Soils data obtained from a desk top study provides an indication of soil type; this report does not provide information on soil shrinkability which may be required for practitioners in other disciplines e.g. engineers designing foundations.

- Soil – Ardingly Sandstone Member - Sandstone (https://www.landis.org.uk/soilscapes/)
- Bedrock - Weald Clay Formation - Mudstone. Sedimentary bedrock (https://geologyviewer.bgs.ac.uk/?_ga=2.46386095.928555805.1731788989-534158303.1731788989)

7.0 Arboricultural Impact Assessment

7.1 Trees impose both above ground and below ground constraints; crowns, branches and trunks of retained trees (the trees that are kept in-situ as part of any scheme) present a physical constraint and these trees must not be subjected to any impact damage that may be incurred by plant and machinery if they are to survive and continue to contribute to the environment in the long-term.

The root systems of retained trees represent the most critical constraint, albeit an invisible one under normal circumstances. The most valuable part of the root systems for maintaining health and structural anchorage of trees is mostly located in the upper 600 millimetres of a soil profile.

Figure 5 - Diagram showing typical root morphology of a mature tree growing in homogenous ground conditions.

7.2 The Arboricultural Impact Assessment (AIA) uses tree data collected on site and information provided to evaluate direct and indirect effects of the proposed project and where necessary recommend mitigation.

7.2.1 Access - Access into the site will utilise the existing access from West Hill (until the new access is constructed); details provided on plan ref AAS/0511 – TPP Rev 01 November 2024, Appendix 2.

7.2.2 Services – Details of additional services have not been provided, services are in situ on site from the existing property, additions to the existing services/new services can be achieved through consideration for the RPAs and by staying outside of any RPA.

7.2.3 Topography (Implications of sloping ground) – the site is considered relatively flat. The implications of this are more to do with the potential for contamination from liquids e.g. fuel, oils, chemicals e.g. porta-loo and cement mixing and washing moving downhill and/or contaminating high water tables – this is not considered a constraint on this site.

7.2.3 Demolition Phase – The demolition of the main dwelling can be achieved without compromising any retained trees and their RPA's.

7.2.4 Construction Phase –

New Access and parking – The new access from West Hill will require the removal of thirteen trees, of these twelve are 'C' category trees, one is 'U' category. The access road and parking layout will encroach into the RPA of four retained trees.

Care Home and annex – The annex to the south of the site will require the removal of one 'C' category tree to facilitate development, with minor encroachment into the RPA of one 'A' category tree. No trees will be removed to facilitate the main care home, there is minor encroachment into the RPA of retained trees on the eastern side a category 'A' and 'B' tree.

7.2.5 Protective Tree Fencing/ground protection–Protective fencing and temporary ground protection will be required to ensure the retained trees are not compromised during the development – details provided in Appendix 2 Tree Protection Plan AAS/0511 TPP Rev 01 November 2024.

Protective Tree Fencing – typically this will be a weldmesh type fencing secured on weighted bases or poles driven into the ground; 'Heras' style fencing.

Ground Protection – the use of a proprietary ground protection is desirable to accommodate the likely load. Alternatives may be used if agreed and proven not to distort or cause compaction to the underlying soil. Where only light vehicles are operating e.g. barrows, trolleys, thick wooden boards or scaffold planks can be used. These should be placed over a minimum of 150mm of compressible woodchip placed over a membrane for ease of removing and to prevent integration with the existing ground conditions.

7.2.6 Monitoring – in accordance with item 6.3 of BS 5837 2012 the site and associated development should be monitored regularly by a competent arboriculturalist to ensure the arboricultural aspects of the planning permission are implemented. Furthermore, regular contact between the site manager and arboriculturalist allows them to effectively address any issues should they arise. The arboriculturalist will contact the Local Planning authority and appropriate action taken

In addition to the method statement, it is beneficial to identify key arboricultural responsibilities associated with the progression of the development. Accordingly, a draft "Statement of Supervision (Arboriculture)" has been included in Appendix 7. The purpose of this document is to identify a decision making and data recording structure in the monitoring process, together with providing a list of specific trigger points. Prior to works commencing on site this document should be re-issued with contact names and document reference number included.

7.2.7 Cultural Implications – there are no significant cultural implications with the trees being removed, twenty-six of the trees for removal are 'U' category trees, with twelve to be removed mainly within the site.

8.0 Design advice, Arboricultural Method Statement

8.1 The information provided in this section has been provided based on any plans provided at the time of this report being prepared. Should there be amendments to the site layout in the future the advice provided may not be relevant and require revision prior to the commencement of the development.

8.2 If during development the layout encroaches significantly more into the RPAs than identified amendments to the engineering approach may be required and arboricultural advice must be sought.

8.3 Method Statement

8.3.1 Location of site office/compound/parking/materials – All construction logistics and materials can be contained within the site without compromising the RPA of retained trees.

8.3.2 Protective Tree Fencing/ground protection – Tree protection will be required on site using both 'Heras' type fencing and ground protection, ideally a proprietary ground protection to accommodate the required load.

Details of ground protection and fencing are provided in Appendix 3 and on the Tree Protection Plan AAS/0511 TPP Rev 01 November 2024, Appendix 2.

Tree protection fencing around 1867, 1873, 1877, and 1918 will need to be moved during construction activities.

8.3.3 Demolition Phase – The demolition of the existing dwelling will not compromise any retained trees. As a precautionary measure any site works on the eastern side will pull back any structures.

8.3.4 Construction Phase: -

New Access and parking – The new access encroaches through the RPA of four retained trees, 1853, 1867, 1873, 1877. Hand excavation and root pruning will be adopted for 1853 and 1877 as the encroachment is less than 20% and considered minimal.

The adoption of a cellular no-dig load bearing system will be installed through the RPA of 1867 and 1873.

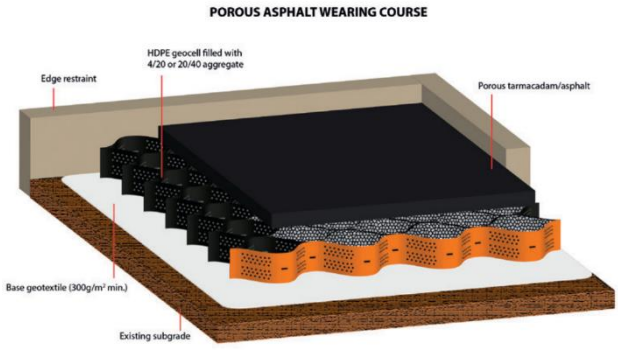
Care home and annex – The footprint of the care home and annex encroaches into the RPA of 1907, 1918 and 1928, this encroachment is less than 20% and considered minor. Hand excavation and root pruning will be carried out following industry guidance.

8.3.5 Excavation within the RPA - All excavations within an RPA must be undertaken by hand, down to a depth of 600mm, to establish the presence of roots. Any tree roots exposed within the RPA must be left as intact as careful digging with hand tools will allow, avoiding the use of heavy machinery within the RPA.

8.3.6 Root Pruning - Any roots encountered are likely to be fibrous rather than structural and can be pruned using clean secateurs. Where roots >25mm are exposed the advice of an arboricultural professional should be sought to determine if pruning is acceptable. Roots <25mm can be pruned back using clean secateurs to a side root.

8.3.7 Installation of cellular load bearing system– for the area(s) highlighted on the tree protection plan ref AAS/0511 TPP Rev 01 November 2024 a cellular system is required for the load bearing requirements.

Figure 6 – Illustrative specification for 'no-dig' surfacing for an asphalt surface



Working off suitable ground protection the existing hard surface will be removed by hand

Any roots exposed during excavations should immediately be wrapped or covered in damp hessian to prevent desiccation and to protect them from rapid temperature changes. Any wrapping should be removed prior to backfilling, which should take place as soon as possible. Prior to backfilling, retained roots should be surrounded with topsoil or un-compacted sharp sand (builders' sand should not be used because of its high salt content, which is toxic to tree roots), or other loose inert granular fill, before soil or other suitable material is replaced.

A specification can be obtained from Geo-synthetics http://www.geosyn.co.uk/, or Terram https://www.terram.com/products/geocells/tree-root-protection-geocell.html. The product must be installed by the manufacturers

Guidelines also provided in Arboricultural Practice Note 12 (APN 12 – Driveways Close to Trees –

https://www.trees.org.uk/Trees.org.uk/media/Trees-org.uk/Misc%20images/Bookshop/AA_GuidanceNote12_CellularConfinementSystems-Web.pdf

8.3.8 Mixing and use of concrete around trees – Concrete (cementitious, mortar, cement, slurry) washout wastewater is caustic and considered corrosive, with a pH over 12. Wet concrete is toxic to trees and for this reason the incorporation of protection (sheathing with impermeable membrane e.g. heavy grade polythene sheeting) is extremely important to prevent contact with exposed roots and limiting potential for harm.

It is important NOT to mix concrete within the vicinity of trees where there is the risk of contamination of the soil.

8.3.9 Use of cranes, Rigs and booms - precautionary measures must be observed to avoid contact of any retained trees when manoeuvring cranes, rigs or booms into position – a banksman must be in situ to observe for conflict and notify the operator before damage to retained trees occurs.

8.3.10 Reporting and Monitoring - in accordance with item 6.3 of BS 5837 2012 the site and associated development should be monitored regularly by a competent arboriculturalist to ensure the arboricultural aspects of the planning permission are implemented. Furthermore, regular contact between the site manager and arboriculturalist allows them to effectively address any issues should they arise. The arboriculturalist will contact the Local Planning authority and appropriate action taken.

A statement of supervision is provided in Appendix 5 along with a timetable of tree protection phasing in Appendix 6.

9.0 Conclusion

9.1 The proposed re-development of the site will require the demolition of the existing dwelling, there will be no impact upon retained trees.

9.2 The re-development includes constructing a new access and parking, this requires the removal of thirteen trees within the treed area running parallel to West Hill. There will be minor encroachment through the RPA of retained trees, with a combination of root pruning and the adoption of a no-dig cellular load bearing system the impact upon the retained trees is minimal.

9.3 The construction of the annex and care home have a minor encroachment through the RPA of three retained trees, root pruning is proposed to mitigate the impact. This will not have a long-term impact upon the tree's longevity.

9.4 Where the new access and care home encroaches through the RPA of retained trees careful phasing, moving the fencing, will be required.

9.5 To mitigate for the removal of trees across the site there will be a comprehensive landscaping scheme submitted.

9.6 The impact of the construction activities upon the tree(s) has the potential for causing physical damage to retained trees if protection measures are not implemented as shown on the Tree Protection Plans AAS/0511 – TPP Rev 01 November 2024, Appendix 2

9.7 Trees subject to the Tree Preservation Order are proposed for removal, of the trees identified twenty-three have been identified as 'U' category trees.

9.8 There are no arboricultural reasons for this development to be refused providing the details provided in this report and Tree Protection Plans are adhered to.

APPENDIX 1

Tree Schedule and Cascade Chart for Categorisation

BS5837:2012 Tree Survey

Arc Arboricultural Solutions Ltd
12 High Street
Pulloxhill
Bedfordshire
MK45 5HA
Mobile: 07553 870759
arc.arboriculturalsolutions@gmail.com

Client: LPS Construction Consultants
Project: AAS/0511 Highfields East Grinstead
Survey Date: 26/11/2024
Surveyor: Roz Richardson

Tree and Tag No / Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations / Survey Comment	Cat ERC
G1804										Estimated Measurements	
A Group Mixed Species	10	1		N 2 E 2 S 2 W 2	0 0 0 0	SM	A: 0 R: 0	Good	C: Good S: Good B: Good	No action :: Unspecified Selectively remove 'U' category trees, all Cherry Laurel leaving a 2-3m strip parallel with West Hill for screening	C.1.2 10 to 20 yrs
G1848										Estimated Measurements	
Sycamore *Acer pseudoplatanus-*	9	2		N 3 E 2 S 2 W 2	0 0 0 0	SM	A: 0 R: 0	Poor	C: Poor		U <10 yrs
G1849										Estimated Measurements	
Unknown - -	0	0					A: 0 R: 0		C: S: B:		U <10 yrs
G1866										Estimated Measurements	
Common Holly *Ilex aquifolium*	10	1	350	N 4 E 3 S 4 W 3	1 1 1 1	M	A: 55.4 R: 4.19	Good	C: Good S: Fair B: Fair	No action :: Unspecified 2x Holly growing on the boundary	C.1.2 20 to 40 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
G1871										Estimated Measurements	
A Group - -	5	1	100	N 2 E 2 S 2 W 2	0 0 0 0	SM	A: 4.5 R: 1.19	Good	C: Good S: Fair B: Fair	No action :: Unspecified Mixed group comprising Holly, Cherry Laurel, Hazel	C.1.2 10 to 20 yrs
G1878										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	9	1	200	N 9 E 4 S 4 W 4	3 3 3 3	SM	A: 18.1 R: 2.4	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Group comprising 7 stems	C.1.2 20 to 40 yrs
G1880										Estimated Measurements	
A Group - -	8	1	200	N 3 E 3 S 3 W 3	2 2 2 2	SM	A: 18.1 R: 2.4	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Group comprising Sycamore, Holly, 1x Apple. Some squirrel damage	C.1.2 10 to 20 yrs
G1894										Estimated Measurements	
A Group - -	7	1	200	N 2 E 2 S 2 W 2	0 0 0 0	SM	A: 18.1 R: 2.4	Fair	C: Good S: Good B: Good	No action :: Unspecified Mainly Holly	C.1.2 10 to 20 yrs
G1895										Estimated Measurements	
A Group - -	7	1	200	N 2 E 2 S 2 W 2	0 0 0 0	SM	A: 18.1 R: 2.4	Fair	C: Good S: Good B: Good	No action :: Unspecified Mainly Holly	C.1.2 10 to 20 yrs
G1896										Estimated Measurements	
A Group - -	7	1	200	N 2 E 2 S 2 W 2	0 0 0 0	SM	A: 18.1 R: 2.4	Fair	C: Good S: Good B: Good	No action :: Unspecified Mainly Holly	C.1.2 10 to 20 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
G1897										Estimated Measurements	
A Group - -	7	1	200	N 2 E 2 S 2 W 2	0 0 0 0	SM	A: 18.1 R: 2.4	Fair	C: Good S: Good B: Good	No action :: Unspecified Mainly Holly	C.1.2 10 to 20 yrs
G1898										Estimated Measurements	
A Group - -	7	1	200	N 2 E 2 S 2 W 2	0 0 0 0	SM	A: 18.1 R: 2.4	Fair	C: Good S: Good B: Good	No action :: Unspecified Mainly Holly	C.1.2 10 to 20 yrs
G1899										Estimated Measurements	
A Group - -	7	1	200	N 2 E 2 S 2 W 2	0 0 0 0	SM	A: 18.1 R: 2.4	Fair	C: Good S: Good B: Good	No action :: Unspecified Mainly Holly	C.1.2 10 to 20 yrs
G1917										Estimated Measurements	
A Group - -	8	1	180	N 2 E 2 S 2 W 6	3 3 3 3	SM	A: 14.7 R: 2.16	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified 6x Sycamore, 1x Oak - stem decay of Sycamore	C.1.2 10 to 20 yrs
G1926										Estimated Measurements	
A Group - -	7	1	200	N 3 E 3 S 3 W 4	2 2 2 2	SM	A: 18.1 R: 2.4	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified 1x Holly, 1x Sycamore, 1x Hazel	C.1.2 10 to 20 yrs
G1934										Estimated Measurements	
A Group - -	10	1	250	N 3 E 3 S 3 W 3	0 0 0 0	SM	A: 28.3 R: 3	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified 2x Sycamore, 1x Holly	C.1.2 10 to 20 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No / Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations / Survey Comment	Cat ERC
G1984										Estimated Measurements	
A Group - -	7	1	200	N 2 E 2 S 2 W 2	0 0 0 0	SM	A: 18.1 R: 2.4	Fair	C: Good S: Good B: Good	No action :: Unspecified Mainly Holly	C.1.2 10 to 20 yrs
NG1874										Estimated Measurements	
Lombardy Poplar *Populus nigra 'Italica'*	18	1	640	N 3 E 3 S 3 W 3	8 8 8 8	M	A: 185.3 R: 7.68	Good	C: Good S: Good B: Fair	No action :: Unspecified 2x Poplar off site	B.1.2 10 to 20 yrs
NG1876										Estimated Measurements	
Lawson Cypress *Chamaecyparis lawsoniana*	10	1	260	N 3 E 3 S 3 W 3	2 2 2 2	M	A: 30.6 R: 3.12	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Off site group	C.1.2 10 to 20 yrs
1805										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	14	1	400	N 1 E 6 S 5 W 2	3 2 1.75 2	M	A: 72.4 R: 4.8	Fair	C: Fair S: Fair B: Poor	No action :: Unspecified	C.1.2 20 to 40 yrs
1806										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	19	1	710	N 7.5 E 6.5 S 4 W 6	2 2 2 2	M	A: 228.1 R: 8.52	Fair	C: Fair S: Good B: Fair	No action :: Unspecified No comments	B.1.2 20 to 40 yrs
1807										Estimated Measurements	
Common Yew *Taxus baccata*	6	2	413 (Eq)	N 5 E 4 S 5 W 4.5	0 0 0 0	SM	A: 77.3 R: 4.96	Fair	C: Fair S: Poor B: Fair	No action :: Unspecified One stem failed, decay at base	C.1.2 10 to 20 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
1808										Estimated Measurements	
Common Lime *Tilia europaea*	20	6	563 (Eq)	N 5 E 4.5 S 4 W 4	3 3 3 3	M	A: 143.6 R: 6.76	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Multi-stem from base. adj to to road wall and disused substation, overhangs highway	**B.1.2** 20 to 40 yrs
1809										Estimated Measurements	
Common Lime *Tilia europaea*	20	1	560	N 3.5 E 4 S 4.5 W 3	2 2 2 2	M	A: 141.9 R: 6.72	Fair	C: Fair S: Poor B: Poor	Pollard :: Pollard to 5 m Lapsed pollard, based obscured by epicormic growth and ivy	**C.1.2** 10 to 20 yrs
1810										Estimated Measurements	
Common Lime *Tilia europaea*	20	1	580	N 7 E 3 S 6 W 8	3 3 3 3	M	A: 152.2 R: 6.96	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Lapsed pollard st 4.5m, cavity 1.5-2m base obscured by epicormic growth	**B.1.2** >40 yrs
1811										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	14	1	340	N 4.5 E 1.5 S 5 W 3	3 2 2 1.5	SM	A: 52.3 R: 4.08	Poor	C: Fair S: Poor B: Fair	No action :: Unspecified Suppressed specimen, squirrel damage	**C.1.2** 20 to 40 yrs
1812										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	18	1	460	N 4.5 E 4 S 7 W 6	1.5 2 1.75 3	M	A: 95.7 R: 5.51	Poor	C: Poor S: Fair B: Fair	No action :: Unspecified Apical die back	**C.1.2** 20 to 40 yrs
1813										Estimated Measurements	
Scots Pine *Pinus sylvestris*	18	1	570	N 0.5 E 2 S 5 W 1	3 3 3 3	M	A: 147 R: 6.84	Poor	C: Poor S: Poor B: Poor	Fell :: Unspecified Fell - H&S - Failed stem at 6m, decay in remaining stem	**U** <10 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
1814										Estimated Measurements	
Scots Pine *Pinus sylvestris*	19	1	550	N 3 E 5.5 S 4.5 W 2.5	3 3 3 3	M	A: 136.9 R: 6.6	Fair	C: Good S: Poor B: Poor	Fell :: Unspecified Fell - H&S - Stem decay at 6m SE side	U <10 yrs
1815										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	9	1	370	N 1.5 E 1.5 S 1 W 4.5	3 3 3 3	SM	A: 61.9 R: 4.43	Fair	C: Poor S: Poor B: Poor	Fell :: Unspecified Fell - H&S - Main stem dead, decay leans towards road and snapped, lower bach taken on apical dominance	U <10 yrs
1816										Estimated Measurements	
Austrian Pine *Pinus nigra ssp. Nigra*	21	1	610	N 6 E 5 S 6 W 4.5	12 12 12 12	M	A: 168.4 R: 7.32	Good	C: Good S: Good B: Good	No action :: Unspecified Typical woodland specimen, drawn up, stem kinked at 6m, minor deadwood throughout canopy	B.1.2 20 to 40 yrs
1817										Estimated Measurements	
Lawson Cypress *Chamaecyparis lawsoniana*	8	1	350	N 2 E 3 S 4.5 W 1.5	3 3 3 3	SM	A: 55.4 R: 4.19	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Stem bias towards east, growing into crown of adj Scot's pine, stem bifurcates at at 3m	C.1.2 20 to 40 yrs
1818										Estimated Measurements	
Lawson Cypress *Chamaecyparis lawsoniana*	8	1	380	N 0.5 E 1.5 S 3 W 1.5	3 3 3 3	SM	A: 65.3 R: 4.55	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Aysemetric canopy towards south, crossing and fused branches	C.1.2 10 to 20 yrs
1819										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	18	1	430	N 8 E 3 S 2 W 8	5 5 5 5	M	A: 83.7 R: 5.16	Fair	C: Good S: Good B: Fair	No action :: Unspecified Stem bias towards north west	B.1.2 >40 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
1820										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	20	1	710	N 8 E 4 S 4.5 W 14	6 6 6 6	M	A: 228.1 R: 8.52	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Bark death and delamination at 4m north east - sooty bark disease. Dysfunctional strip east side from 2-4m crown bias towards west, ivy on stem	C.1.2 20 to 40 yrs
1821										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	19	1	700	N 7 E 7 S 6 W 8	3 3 3 3	M	A: 221.7 R: 8.4	Good	C: Good S: Good B: Good	No action :: Unspecified Crown bias towards west	B.1.2 >40 yrs
1822										Estimated Measurements	
Scots Pine *Pinus sylvestris*	19	1	490	N 2 E 4 S 6 W 3	3 3 3 3	M	A: 108.6 R: 5.87	Good	C: Fair S: Poor B: Fair	No action :: Unspecified Majority of branches on the southern side, stem kinked and curved	C.1.2 10 to 20 yrs
1823 1826										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	20	1	710	N 8 E 4 S 4.5 W 14	3 3 3 3	M	A: 228.1 R: 8.52	Fair	C: Fair S: Fair B: Fair	Reduce crown(s) :: By 20% Reduce by 2.5m, reduce sides NW by 4E - Necrotic bark at 4m NE Sooty bark disease, From 2m NE dysfunctional area	C.1.2 <10 yrs
1824										Estimated Measurements	
Common Ash *Fraxinus excelsior*	10	1	390	N 1 E 1 S 1 W 3	3 3 3 3	SM	A: 68.8 R: 4.67	Poor	C: Poor S: Poor B: Poor	Fell :: Unspecified Fell - H&S - Fracture in primary stem with partial loss of crown, bark necrosis/lesions - canker	U <10 yrs
1825										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	17	1	430	N 2 E 3.5 S 4.5 W 6	5 5 5 5	M	A: 83.7 R: 5.16	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Crown bias towards south west	C.1.2 10 to 20 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
1826										Estimated Measurements	
Common Ash *Fraxinus excelsior*	11	1	440	N 2 E 0.5 S 1 W 12	5 5 5 5	Dead	A: 87.6 R: 5.28	Dead	C: S: B:	Fell :: Fell and remove stump(s) Fell - H&S - Ash Die Back	U n/a
1827										Estimated Measurements	
Common Ash *Fraxinus excelsior*	20	1	540	N 3 E 3 S 6 W 6.5	10 10 10 10	M	A: 131.9 R: 6.47	Fair	C: Fair S: Fair B: Fair	Fell :: Fell and remove stump(s) Fell - H&S	U <10 yrs
1828										Estimated Measurements	
Scots Pine *Pinus sylvestris*	9	1	550	N 1 E 5 S 7 W 1	3 3 3 3	M	A: 136.9 R: 6.6	Good	C: Fair S: Fair B: Fair	No action :: Unspecified Stem reduced to current height	C.1.2 10 to 20 yrs
1829										Estimated Measurements	
Scots Pine *Pinus sylvestris*	20	1	530	N 1.5 E 4.5 S 5 W 4	13 13 13 13	M	A: 127.1 R: 6.36	Good	C: Good S: Fair B: Good	No action :: Unspecified Crown bias towards the south	B.1.2 20 to 40 yrs
1830										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	6	2	283 (Eq)	N 5 E 3 S 4 W 2	2 2 2 2	SM	A: 36.3 R: 3.39	Poor	C: Poor S: Poor B: Poor	Fell :: Unspecified Fell - H&S - Squirrel damage, top historically lost, decay in upper stem	U <10 yrs
1831										Estimated Measurements	
Silver Birch *Betula pendula*	15	1	310	N 3 E 3 S 3 W 3	4 4 4 4	SM	A: 43.5 R: 3.72	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Crowm develops into a multi-stem	B.1.2 10 to 20 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
1832										Estimated Measurements	
Scots Pine *Pinus sylvestris*	20	1	540	N 5 E 5 S 4 W 5	13 13 13 13	M	A: 131.9 R: 6.47	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Exposed sapwood from wound main stem from hanging limb, at 6m, presence of bacterial canker.	C.1.2 10 to 20 yrs
1833										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	18	2	708 (Eq)	N 6 E 4 S 3 W 9	6 6 6 6	M	A: 226.6 R: 8.49	Fair	C: Good S: Poor B: Poor	Fell :: Unspecified Fell - H&S - Twin stem from base with tight union, one stem weighted towards highway	U 10 to 20 yrs
1834										Estimated Measurements	
Common Ash *Fraxinus excelsior*	18	3	560 (Eq)	N 4 E 3 S 3 W 4.5	5 5 5 5	M	A: 141.9 R: 6.72	Fair	C: Fair S: Fair B: Poor	Fell :: Unspecified Fell - H&S - Triple stem from 3m, Innonotus hispidus throughout canopy, sounding st base indicates compromised wood	U <10 yrs
1835										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	17	1	610	N 3 E 8 S 7 W 5	5 5 5 5	M	A: 168.4 R: 7.32	Fair	C: Good S: Poor B: Poor	Fell :: Unspecified Fell - H&S - Extensive decay at base extending into buttress root's	U <10 yrs
1836										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	11	1	370	N 3 E 2.5 S 2 W 2	3 3 3 3	SM	A: 61.9 R: 4.43	Poor	C: Poor S: Poor B: Poor	Extensive squirrel damage, crown die-back	C.1.2 10 to 20 yrs
1837										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	11	10	822 (Eq)	N 2 E 3 S 3 W 2	0 0 0 0	SM	A: 305.9 R: 9.86	Poor	C: Poor S: Poor B: Poor	Fell :: Unspecified Fell - H&S - Significant crown die-back, multi stem from base, extensive squirrel damage	U <10 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
1838										Estimated Measurements	
Austrian Pine *Pinus nigra ssp. Nigra*	16	1	420	N 16 E 2 S 0 W 2	5 5 5 5	SM	A: 79.8 R: 5.03	Fair	C: Poor S: Poor B: Poor	Fell :: Unspecified Fell - H&S - Historically wind thrown with upper stem leaning as a photographic response. Hung up in canopy of adj tree.	U <10 yrs
1839										Estimated Measurements	
Scots Pine *Pinus sylvestris*	12	1	810	N 2.5 E 6 S 6 W 5	8 8 8 8	M	A: 296.9 R: 9.72	Good	C: Good S: Good B: Good	No action :: Unspecified Large dead limb at 2.5m, topped and reduced at current height	C.1.2 10 to 20 yrs
1840										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	17	4	1044 (Eq)	N 7.5 E 4 S 5 W 8.5	7 7 7 7	M	A: 493.3 R: 12.53	Good	C: Fair S: Good B: Fair	No action :: Unspecified 4x stem from 1m, minor lesions on southern stem	B.1.2 20 to 40 yrs
1841										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	17	1	560	N 7 E 2 S 2 W 8	5 5 5 5	M	A: 141.9 R: 6.72	Decline	C: Poor S: Poor B: Poor	Fell :: Unspecified Fell - H&S - Significant stem decay, hollowing, canopy weighted towards highway	U <10 yrs
1842										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	17	1	610	N 7 E 1 S 1 W 7	5 5 5 5	M	A: 168.4 R: 7.32	Poor	C: Poor S: Poor B: Poor	Fell :: Fell and remove stump(s) Fell - H&S - Twin stem from base, one stem dead, dysfunctional wood on remaining stem from bifurcation, apical crown die-back, poor specimen	U <10 yrs
1843										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	18	1	600	N 8 E 3 S 6 W 8	7 7 7 7	M	A: 162.9 R: 7.2	Fair	C: Good S: Fair B: Poor	Fell :: Fell and remove stump(s) Fell - H&S - Crown bias towards west, dysfunctional column from ground level, , black rhizomorphs under peeling bark - honey fungus	U 10 to 20 yrs

Age Classifications: N Newly planted; EM Early Mature; Y Young; M Mature; SM Semi-mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
1844										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	10	10	791 (Eq)	N 1 E 3 S 3 W 1	2 2 2 2	SM	A: 282.8 R: 9.48	Poor	C: Poor S: Poor B: Poor	Fell :: Unspecified Fell - H&S	U <10 yrs
1845										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	11	2	278 (Eq)	N 3 E 4 S 6 W 2	6 6 6 6	SM	A: 34.9 R: 3.33	Fair	C: Fair S: Poor B: Poor	Fell :: Unspecified Fell - H&S - Suppressed specimen, significant upper stem and canopy death/necrosis	U <10 yrs
1846										Estimated Measurements	
Scots Pine *Pinus sylvestris*	16	1	630	N 4 E 6 S 8 W 6	13 13 13 13	SM	A: 179.6 R: 7.56	Good	C: Good S: Poor B: Poor	No action :: Unspecified Crown topped at current height	C.1.2 10 to 20 yrs
1847										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	14	10	791 (Eq)	N 2 E 5 S 7 W 7	4 4 4 4	SM	A: 282.8 R: 9.48	Poor	C: Poor S: Poor B: Poor	Fell :: Unspecified Fell - H&S - Significant crown die-back, squirrel damage, bacterial canker throughout	U <10 yrs
1848										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	9	1	260	N 9 E 3 S 2 W 2	4 4 4 4	SM	A: 30.6 R: 3.12	Poor	C: Poor S: Poor B: Poor	Fell :: Unspecified Remove to facilitate development	U <10 yrs
1849										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	10	2	270 (Eq)	N 3 E 2 S 2 W 1	3 3 3 3	SM	A: 33 R: 3.24	Poor	C: Poor S: Poor B: Poor	Fell :: Fell and remove stump(s) Remove to facilitate development - Significant decay in upper stem and at base, crown die-back	U <10 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
1850										Estimated Measurements	
Scots Pine *Pinus sylvestris*	9	1	500	N 0 E 4 S 2 W 1	3 3 3 3	M	A: 113.1 R: 6	Poor	C: Poor S: Poor B: Poor	No action :: Unspecified Remove to facilitate development - Topped at current height, one live lateral branch	C.1.2 10 to 20 yrs
1851										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	10	1	560	N 4 E 3 S 6 W 5	4 4 4 4	M	A: 141.9 R: 6.72	Fair	C: Fair S: Fair B: Fair	Fell :: Fell and remove stump(s) Remove to facilitate development - Stem bifurcates at 4m, topped historically at current height	C.1.2 10 to 20 yrs
1852										Estimated Measurements	
Scots Pine *Pinus sylvestris*	11	1	490	N 3 E 0 S 0 W 4	10 10 10 10	M	A: 108.6 R: 5.87	Fair	C: Fair S: Poor B: Poor	Fell :: Fell and remove stump(s) Remove to facilitate development - Historically topped at current height, one live lateral branch	C.1.2 10 to 20 yrs
1853										Estimated Measurements	
Scots Pine *Pinus sylvestris*	14	1	450	N 9 E 0 S 0 W 9	8 8 8 8	M	A: 91.6 R: 5.39	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Canopy directed to the northeast, bent stem	C.1.2 10 to 20 yrs
1854										Estimated Measurements	
Scots Pine *Pinus sylvestris*	14	1	330	N 0 E 1 S 5 W 2	7 7 7 7	M	A: 49.3 R: 3.96	Poor	C: Good S: Poor B: Poor	Fell :: Fell and remove stump(s) Fell - H&S - Apical crown die-back, exposed sapwood wounds along main stem, fracture in main stem	U <10 yrs
1855										Estimated Measurements	
Scots Pine *Pinus sylvestris*	15	1	440	N 7 E 2 S 7 W 2	9 9 9 9	M	A: 87.6 R: 5.28	Poor	C: Fair S: Poor B: Poor	Fell :: Fell and remove stump(s) Fell - H&S - Stem bifurcates at 8m, stem's grow in opposite directions, crown disfigured, exposed sapwood wounds	U <10 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
1856										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	17	1	560	N 6 3 E 6 3 S 6 3 W 5 3		M	A: 141.9 R: 6.72	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Large basal growth	**C.1.2** 20 to 40 yrs
1857										Estimated Measurements	
Common Beech *Fagus sylvatica*	7	1	280	N 0 3 E 5 3 S 6 3 W 3 3		SM	A: 35.5 R: 3.36	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Suppressed specimen, minor squirrel damage	**C.1.2** 20 to 40 yrs
1858										Estimated Measurements	
Common Oak *Quercus robur*	17	1	450	N 7 5 E 3 5 S 7 5 W 7 5		SM	A: 91.6 R: 5.39	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Crown bias towards north west	**B.1.2** >40 yrs
1859										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	16	1	500	N 7 5 E 7 5 S 7 5 W 7 5		M	A: 113.1 R: 6	Fair	C: Good S: Poor B: Fair	Reduce crown(s) :: By specified percentage (see comment) Reduce to 4m - Historically fallen and re-gen	**C.1.2** 20 to 40 yrs
1860										Estimated Measurements	
Common Beech *Fagus sylvatica*	16	1	420	N 9 6 E 3 6 S 4 6 W 7 6		M	A: 79.8 R: 5.03	Good	C: Good S: Fair B: Fair	No action :: Unspecified Kinked lower stem, crown bias towards north west	**B.1.2** >40 yrs
1861										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	15	1	350	N 6 5 E 4 5 S 5 5 W 6 5		SM	A: 55.4 R: 4.19	Poor	C: Poor S: Poor B: Poor	Fell :: Fell and remove stump(s) Fell - H&S - Extensive stem decay and hollowing, crown die-back, weighted towards highway	**U** <10 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No / Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations / Survey Comment	Cat ERC
1862										Estimated Measurements	
Scots Pine *Pinus sylvestris*	17	1	600	N 9 E 4 S 4 W 7	6 6 6 6	M	A: 162.9 R: 7.2	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Holly growing at base, deadwood throughout canopy	**B.1.2** 20 to 40 yrs
1863										Estimated Measurements	
Lawson Cypress *Chamaecyparis lawsoniana*	17	1	520	N 2 E 2 S 4 W 4	4 4 4 4	M	A: 122.3 R: 6.23	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Main stem bifurcates into multiple stem's, large upright limb from 3m	**C.1.2** 10 to 20 yrs
1864										Estimated Measurements	
Scots Pine *Pinus sylvestris*	19	1	580	N 6 E 2 S 3 W 4	7 7 7 7	M	A: 152.2 R: 6.96	Good	C: Good S: Fair B: Good	No action :: Unspecified No Comments	**B.1.2** 20 to 40 yrs
1865										Estimated Measurements	
Scots Pine *Pinus sylvestris*	19	1	510	N 8 E 4 S 1 W 1	9 9 9 9	M	A: 117.7 R: 6.12	Fair	C: Good S: Good B: Fair	No action :: Unspecified No Comments	**B.1.2** 20 to 40 yrs
1866										Estimated Measurements	
Common Holly *Ilex aquifolium*	10	2	350 (Eq)	N 4 E 3 S 4 W 3	1 1 1 1	M	A: 55.4 R: 4.19	Good	C: Good S: Fair B: Fair	No action :: Unspecified Two trees growing on the boundary	**C.1.2** 20 to 40 yrs
1867										Estimated Measurements	
Western Red Cedar *Thuja plicata*	13	1	810	N 1 E 4 S 5 W 4	1 1 1 1	M	A: 296.9 R: 9.72	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Growing close to adj trees forming a canopy, potentially historic movement stable, large upright limb to the south from 1.5m	**C.1.2** 10 to 20 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
1868										Estimated Measurements	
Western Red Cedar *Thuja plicata*	13	1	440	N 1 E 2 S 0 W 2	5 5 5 5	M	A: 87.6 R: 5.28	Fair	C: Fair S: Poor B: Poor	Fell :: Fell and remove stump(s) Fell - H&S - Fallen into adj tree	U <10 yrs
1869										Estimated Measurements	
Western Red Cedar *Thuja plicata*	13	2	615 (Eq)	N 1 E 2 S 1 W 6	3 3 3 3	M	A: 171.3 R: 7.38	Poor	C: Poor S: Poor B: Poor	Fell :: Fell and remove stump(s) Fell - H&S - Eastern stem dead with adjacent tree hung up	U <10 yrs
1870										Estimated Measurements	
Winter Cherry *Prunus subhirtella*	4	1	170	N 3 E 3 S 2 W 2	1 1 1 1	SM	A: 13.1 R: 2.04	Fair	C: Good S: Fair B: Fair	Fell :: Unspecified Remove to facilitate development - Wound south side below crown break	C.1.2 10 to 20 yrs
1872										Estimated Measurements	
Weeping Willow *Salix chrysocoma*	4	1	140	N 3 E 3 S 2 W 2	0 8 0 0	SM	A: 8.9 R: 1.68	Good	C: Good S: Good B: Good	Fell :: Fell and remove stump(s) Remove to facilitate developemnt - New planting	C.1.2 >40 yrs
1873										Estimated Measurements	
Common Yew *Taxus baccata*	6	1	230	N 4 E 3 S 1 W 2	4 4 4 4	SM	A: 23.9 R: 2.75	Good	C: Good S: Fair B: Fair	No action :: Unspecified Historic pruning wounds	B.1.2 >40 yrs
1875										Estimated Measurements	
Myrobalan Plum *Prunus cerasifera*	5	1	100	N 2 E 3 S 2 W 1	1 1 1 1	Y	A: 4.5 R: 1.19	Good	C: Good S: Good B: Good	No action :: Unspecified	C.1.2 >40 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No / Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations / Survey Comment	Cat ERC
1877										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	10	2	424 (Eq)	N 4 E 4 S 2 W 1	2 2 2 2	SM	A: 81.4 R: 5.09	Fair	C: Fair S: Fair B: Fair	Remove :: Faulted stems Twin stem from base, remove eastern stem with canker	C.1.2 10 to 20 yrs
1879										Estimated Measurements	
Western Red Cedar *Thuja plicata*	19	1	930	N 3 E 8 S 6 W 4	1.5 1 1 1	M	A: 391.3 R: 11.16	Good	C: Good S: Fair B: Fair	No action :: Unspecified Stem leaning to the East, lack of photographic correction suggests recent movement, appears stable, large low rising limb's to the east	C.1.2 20 to 40 yrs
1881										Estimated Measurements	
Common Holly *Ilex aquifolium*	14	1	500	N 3 E 3 S 7 W 3	2 2 2 2	M	A: 113.1 R: 6	Good	C: Good S: Fair B: Fair	No action :: Unspecified Main stem bifurcates at 3m	C.1.2 20 to 40 yrs
1882										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	13	1	310	N 4 E 6 S 5 W 2	3 2.5 2 2	SM	A: 43.5 R: 3.72	Fair	C: Fair S: Poor B: Fair	Reduce crown(s) :: By 20% Remove :: Faulted branch/limbs Remove snapped hanging branch, reduce height by 2m all round	C.1.2 20 to 40 yrs
1883										Estimated Measurements	
Sawara Cypress *Chamaecyparis pisifera*	15	1	510	N 2 E 7 S 2 W 1	5 5 5 5	M	A: 117.7 R: 6.12	Poor	C: Poor S: Poor B: Poor	Fell :: Fell and remove stump(s) Remove to facilitate development - Stem bifurcates at 1.5m, significant stem decay	U <10 yrs
1884										Estimated Measurements	
Common Holly *Ilex aquifolium*	9	3	330 (Eq)	N 2 E 3 S 3 W 3	2 2 2 2	SM	A: 49.3 R: 3.96	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Stem bifurcates at 3m	C.1.2 20 to 40 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No / Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations / Survey Comment	Cat ERC
1885										Estimated Measurements	
Sawara Cypress *Chamaecyparis pisifera*	14	1	340	N 2 E 2 S 2 W 3	8 8 8 8	M	A: 52.3 R: 4.08	Poor	C: Good S: Poor B: Poor	Fell :: Fell and remove stump(s) Remove to facilitate development - Bifurcation failure at 6m stem decay present	U <10 yrs
1886										Estimated Measurements	
Common Oak *Quercus robur*	10	1	340	N 4 E 4 S 5 W 4	2 1.5 1 1.5	SM	A: 52.3 R: 4.08	Good	C: Good S: Good B: Good	No action :: Unspecified No comments	B.1.2 >40 yrs
1887										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	17	1	560	N 6 E 4 S 4 W 9	3 3 3 3	M	A: 141.9 R: 6.72	Good	C: Good S: Fair B: Fair	No action :: Unspecified Main stem bifurcates at 3m, deadwood throughout canopy	B.1.2 20 to 40 yrs
1888										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	16	1	450	N 2 E 6 S 3 W 8	3 3 3 3	M	A: 91.6 R: 5.39	Fair	C: Fair S: Poor B: Poor	No action :: Unspecified Main stem bifurcates at 2m associated with historical pollarding, two cavities at union, western stem decay and cavity at 4m, deadwood throughout canopy	C.1.2 10 to 20 yrs
1889										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	17	1	650	N 5 E 7 S 9 W 6	3 3 3 3	M	A: 191.2 R: 7.8	Fair	C: Fair S: Poor B: Poor	Remove :: Sucker Growth Pollard :: Pollard to 5 m Three large basal stem's, significant cavity on south side, various area's of bark necrosis south side up to historic pollard point - lapsed pollard	C.1.2 10 to 20 yrs
1890										Estimated Measurements	
Common Yew *Taxus baccata*	15	1	720	N 7 E 3 S 5 W 5	3 3 3 3	M	A: 234.5 R: 8.63	Good	C: Good S: Good B: Good	No action :: Unspecified Multi-stem from 2m	B.1.2 >40 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
1891										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	17	1	560	N 3 E 2 S 7 W 8	3 3 3 3	M	A: 141.9 R: 6.72	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Small amount of significant deadwood throughout canopy, minor crown die-back, minor cavities on main stem associated with historical pruning wounds	C.1.2 <10 yrs
1892										Estimated Measurements	
Western Red Cedar *Thuja plicata*	16	1	630	N 6 E 4 S 5 W 6	2 2 2 2	M	A: 179.6 R: 7.56	Good	C: Good S: Fair B: Fair	No action :: Unspecified Significant basal decay west side, decayed root leads to adj lost stem, suppressed by adjacent tree	C.1.2 10 to 20 yrs
1893										Estimated Measurements	
Sweet Chestnut *Castanea sativa*	23	1	1010	N 5 E 5 S 8 W 9	3 3 3 3	M	A: 461.5 R: 12.12	Good	C: Good S: Good B: Good	No action :: Unspecified Minor buttress damage west side, minor deadwood throughout canopy	A.1.2 >40 yrs
1895										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	22	1	670	N 4 E 5 S 3 W 5	3 3 3 3	M	A: 203.1 R: 8.04	Fair	C: Good S: Fair B: Fair	No action :: Unspecified No Comments	B.1.2 20 to 40 yrs
1896										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	16	1	560	N 4 E 0 S 1 W 9	3 3 3 3	M	A: 141.9 R: 6.72	Fair	C: Fair S: Poor B: Poor	Fell :: Unspecified Remove to facilitate development - Small stem historically removed from base, basal cavity and stem hollowing at 5m, stem lean and bias towards west	U <10 yrs
1897										Estimated Measurements	
Common Beech *Fagus sylvatica*	24	1	1020	N 7 E 10 S 8 W 6	4 4 4 4	M	A: 470.7 R: 12.24	Good	C: Good S: Good B: Good	No action :: Unspecified Minor deadwood throughout canopy, Holly at base, crown bias towards the east	A.1.2 >40 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
1898										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	17	1	550	N 3 E 4 S 3 W 6	8 8 8 8	M	A: 136.9 R: 6.6	Good	C: Good S: Fair B: Fair	No action :: Unspecified Main stem bifurcates at 4.5m Holly growing at base, slightly suppressed specimen	B.1.2 >40 yrs
1899										Estimated Measurements	
Sweet Chestnut *Castanea sativa*	15	1	520	N 4 E 1 S 1 W 8	3 3 3 3	M	A: 122.3 R: 6.23	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Upper stem and canopy growing north east, historical lost secondary basal stem to south west, decay present progressing into the main stem	C.1.2 10 to 20 yrs
1900										Estimated Measurements	
Common Holly *Ilex aquifolium*	7	1	300	N 3 E 3 S 2 W 2	2 2 2 2	SM	A: 40.7 R: 3.59	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Boundary tree	C.1.2 20 to 40 yrs
1901										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	17	1	410	N 1 E 3 S 1 W 4	12 12 12 12	M	A: 76.1 R: 4.92	Poor	C: Poor S: Poor B: Poor	Fell :: Fell and remove stump(s) Remove to facilitate development - Kretzschmaria deusta at base, apical die back	U <10 yrs
1902										Estimated Measurements	
Sweet Chestnut *Castanea sativa*	19	1	710	N 2 E 5 S 8 W 3	4 4 4 4	M	A: 228.1 R: 8.52	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Burring at base, minor bias towards south east, deadwood throughout canopy	B.1.2 20 to 40 yrs
1903										Estimated Measurements	
Sweet Chestnut *Castanea sativa*	21	1	990	N 3 E 8 S 7 W 5	3 3 3 3	M	A: 443.4 R: 11.88	Good	C: Good S: Good B: Good	No action :: Unspecified On the boundary, minor buttress damage, major and minor deadwood throughout canopy, minor crown die-back, crown bias south east over neighbouring property	A.1.2 >40 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
1904										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	18	1	18	N 3 E 2 S 3 W 7	5 5 5 5	M	A: 0.1 R: 0.17	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Suppressed specimen, Holly growing from base	**C.1.2** 10 to 20 yrs
1905										Estimated Measurements	
Common Horse Chestnut *Aesculus hippocastanum*	16	1	510	N 3 E 3 S 2 W 5	5 5 5 5	M	A: 117.7 R: 6.12	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Suppressed, conflict with adjacent tree, historic branch fracture 7m west	**C.1.2** 10 to 20 yrs
1906										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	20	1	630	N 4 E 7 S 4 W 4	5 5 5 5	M	A: 179.6 R: 7.56	Good	C: Good S: Good B: Fair	No action :: Unspecified Crown bias to the east over neighbouring property	**B.1.2** 20 to 40 yrs
1907										Estimated Measurements	
Sweet Chestnut *Castanea sativa*	23	1	1140	N 12 E 6 S 9 W 11	5 5 5 5	M	A: 588 R: 13.68	Good	C: Good S: Good B: Good	No action :: Unspecified No comments	**A.1.2** >40 yrs
1908										Estimated Measurements	
Sweet Chestnut *Castanea sativa*	17	1	650	N 2 E 9 S 2 W 1	3 3 3 3	SM	A: 191.2 R: 7.8	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Boundary tree, crown bias towards the east	**B.1.2** 20 to 40 yrs
1909										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	17	1	370	N 3 E 2 S 3 W 2	5 5 5 5	SM	A: 61.9 R: 4.43	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Suppressed specimen, minor deadwood throughout canopy	**C.1.2** 20 to 40 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
1910										Estimated Measurements	
Common Yew *Taxus baccata*	7	1	250	N 4 E 2 S 1 W 4	1 1 1 1	SM	A: 28.3 R: 3	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Adjacent to steps	C.1.2 20 to 40 yrs
1911										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	13	1	260	N 2 E 1 S 1 W 7	5 5 5 5	SM	A: 30.6 R: 3.12	Poor	C: Fair S: Poor B: Poor	Fell :: Fell and remove stump(s) Remove to facilitate development - Sparse crown. decay cavity at base	U <10 yrs
1912										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	22	1	910	N 9 E 4 S 5 W 6	5 5 5 5	M	A: 374.7 R: 10.92	Good	C: Good S: Fair B: Fair	No action :: Unspecified East side at base minor decay cavity, good reactive growth. Historically reduced to the east over neighbouring property, deadwood throughout canopy	B.1.2 20 to 40 yrs
1913										Estimated Measurements	
Common Horse Chestnut *Aesculus hippocastanum*	16	1	460	N 4 E 3 S 2 W 3	3 3 3 3	SM	A: 95.7 R: 5.51	Fair	C: Good S: Good B: Fair	No action :: Unspecified No comments	B.1.2 20 to 40 yrs
1914										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	5	1	480	N 1 E 1 S 1 W 1	0 0 0 0	Dead	A: 104.2 R: 5.75	Dead	C: S: B:	Fell :: Fell and remove stump(s) Remove to facilitate development - Monolith	U n/a
1915										Estimated Measurements	
Common Horse Chestnut *Aesculus hippocastanum*	16	1	800	N 5 E 2 S 4 W 7	1 1 1 1	M	A: 289.6 R: 9.6	Fair	C: Fair S: Poor B: Poor	Reduce crown(s) :: By specified percentage (see comment) Reduce height by up to 6m, reduce sides by 2.5m reduce weight on union	C.1.2 10 to 20 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
1916										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	16	1	440	N 4 E 4 S 4 W 4	3 3 3 3	M	A: 87.6 R: 5.28	Good	C: Good S: Fair B: Fair	No action :: Unspecified Lower stem bias towards the east, historically reduced back from neighbouring property	B.1.2 20 to 40 yrs
1918										Estimated Measurements	
Sweet Chestnut *Castanea sativa*	9	2	571 (Eq)	N 2 E 0 S 3 W 8	1 1 1 1	M	A: 147.7 R: 6.85	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Twin stem from base, minor decay pocket's around base, basal cavity (not decay) south west. Northern stem growing laterally to the west, suppressed by adjacent tree	C.1.2 10 to 20 yrs
1919										Estimated Measurements	
Sweet Chestnut *Castanea sativa*	20	2	1310 (Eq)	N 5 E 6 S 8 W 8	3 3 3 3	M	A: 707 R: 15	Good	C: Good S: Good B: Good	No comments	A.1.2 >40 yrs
1920										Estimated Measurements	
Sweet Chestnut *Castanea sativa*	15	1	490	N 3 E 2 S 3 W 13	2 2 2 2	M	A: 108.6 R: 5.87	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Stem bias towards north west	C.1.2 10 to 20 yrs
1921										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	16	1	500	N 3 E 5 S 6 W 3	3 3 3 3	M	A: 113.1 R: 6	Good	C: Fair S: Fair B: Fair	No action :: Unspecified Ivy historically severed, apical leader twisted, historically reduced back from neighbouring property	B.1.2 20 to 40 yrs
1922										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	17	1	420	N 4 E 3 S 4 W 3	3 3 3 3	M	A: 79.8 R: 5.03	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Ivy clad stem obstructing inspection, stem bifurcates at 6m, drawn up specimen	C.1.2 20 to 40 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
1923										Estimated Measurements	
Sweet Chestnut *Castanea sativa*	17	1	600	N 5 E 5 S 2 W 4	3 3 3 3	M	A: 162.9 R: 7.2	Good	C: Good S: Fair B: Fair	No action :: Unspecified Upper canopy bias towards north west	**B.1.2** 20 to 40 yrs
1924										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	19	1	670	N 5 E 5 S 2 W 4	4 4 4 4	M	A: 203.1 R: 8.04	Poor	C: Fair S: Poor B: Poor	Fell :: Fell and remove stump(s) Remove to facilitate development - Basal decay and stem hollowing probed to 0.10m, white mycelium present	**U** <10 yrs
1925										Estimated Measurements	
Lawson Cypress *Chamaecyparis lawsoniana*	11	1	390	N 3 E 2 S 3 W 4	1 1 1 1	SM	A: 68.8 R: 4.67	Good	C: Good S: Fair B: Fair	No action :: Unspecified Multi-stem from 3m	**C.1.2** 10 to 20 yrs
1927										Estimated Measurements	
Rhododendron *Rhododendron Spp.*	5	1	350	N 4 E 4 S 4 W 5	0 0 0 0	M	A: 55.4 R: 4.19	Good	C: Good S: Fair B: Fair	Fell :: Fell and remove stump(s) Remove to facilitate development - Atypical specimen	**C.1.2** 10 to 20 yrs
1928										Estimated Measurements	
Sweet Chestnut *Castanea sativa*	18	1	1120	N 3 E 2 S 2 W 6	3 3 3 3	M	A: 567.6 R: 13.44	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Rising limb from 11m previously removed, crown bias towards west, basal growth, minor dysfunctional wood west side	**B.1.2** 20 to 40 yrs
1929										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	18	1	610	N 2 E 6 S 3 W 1	3 3 3 3	M	A: 168.4 R: 7.32	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Stem and canopy bias to the east, canopy reduced back from neighbouring property historically	**B.1.2** 20 to 40 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
1930										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	21	1	1140	N 4 E 6 S 8 W 9	3 3 3 3	M	A: 588 R: 13.68	Good	C: Good S: Fair B: Fair	No action :: Unspecified Main stem bifurcates at 3m, minor bark inclusion, historical crown reduction from neighbouring property	**B.1.2** >40 yrs
1931										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	22	1	910	N 5 E 7 S 5 W 7	8 8 8 8	M	A: 374.7 R: 10.92	Poor	C: Poor S: Poor B: Poor	Pollard :: Pollard to 5 m Main stem bifurcates at 4m, open cavity at 1m above ground level east side, probed laterally to 0.55m	**U** <10 yrs
1932										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	18	1	700	N 2 E 8 S 2 W 7	7 7 7 7	M	A: 221.7 R: 8.4	Fair	C: Fair S: Fair B: Fair	No action :: Unspecified Ivy clad stem obstructing inspection, stem bifurcates at 5m	**B.1.2** 20 to 40 yrs
1933										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	21	1	920	N 5 E 6 S 5 W 6	6 6 6 6	M	A: 383 R: 11.04	Fair	C: Good S: Fair B: Fair	No action :: Unspecified Ivy clad stem obstructing inspection, main stem bifurcates at 5m	**B.1.2** 20 to 40 yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

ERC: Estimated Remaining Contributio

TABLE 1 – Cascade chart for tree categorisation

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
Trees unsuitable for retention				
Category 'U' Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years	Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees Suppressing adjacent trees or better quality			
NOTE: Category U trees can have existing or potential conservation value which might be desirable to preserve see 4.5.7 – trees with identifiable conservation, heritage or landscape value.				
	1 Mainly arboricultural qualities	**2 Mainly landscape qualities**	**3 Mainly cultural values Including conservation**	
TREES TO BE CONSIDERED FOR RETENTION				
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly goodexamples of their species, especially if rare or unusual or those that are essential components of groups or formal or semi-formal Arboricultural features (e.g. dominant/or principle Trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape feature	Trees, groups or woodlands of significance conservation historical, commemorative or other value e.g. veteran trees or wood-pasture	
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that may be included in 'A' but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, inc unsympathetic past management/storm damage) Such that they are unlikely to be suitable for retention beyond 40 years; or trees lacking the special quality necessary to merit the category 'A' designation.	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to wider locality.	Trees with material conservation or other cultural value	
Category C Trees of low quality with an Estimated remaining life expectancy of at least 10 years, or young trees with a stem dia of below 150mm	Unremarkable trees of very limitedmerit or such impaired conditionthat they do not qualify in higher categories	Trees present in groups or woodlands but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefit.	Trees with no material conservation or other cultural value	

Terms of Reference to Tree Survey Form

Tree number/Tag	Number on tag fixed to tree or given number on plan where no tag has been used. Given number for groups (G), hedges (H) or shrubs (S). Individual tree will have no tag if located on adjoining land or inaccessible
Species	Tree species - Common name or botanical name if no common name is in common use
Tree height	Height in metres where measurement is possible. Estimated where tree is inaccessible
Stem Dia(s)	Trunk diameter measured at 1.5 metres above ground level (on the side of the tree where the ground is highest). A formula applies to multiple stemmed trees
RPA radius	Root Protection Area radius in metres (linear) measured from centre of tree trunk
RPA m2	Root Protection Area in square metres
Crown spread	Spread of tree crown in metres at each cardinal point (NESW) measured from tree trunk
Crown Clearance (1st large branch)	The height in metres on the tree of the lowest major branch and its direction (where relevant)
Canopy height above ground	Headroom - The height above ground in metres of the lowest part of the tree crown / branch ends (where relevant)
Life stage	The estimated stage of life of the tree in relation to its speciesstated as young, semi-mature, early mature, mature, over-mature e.g. A Silver Birch may be considered 'mature' at 40 years, but Oak may only be considered 'semi-mature' at the same chronological age
Structural &Physiological Condition and any management recommendations	The condition of the tree in relation to the presence of any notable structural defects or ill-health and any recommendations that may be relevant to good arboricultural management or in relation to a proposed development
Estimated remaining contribution	An estimated range of the minimum number of years a tree may make a positive contribution before it falls into decline (senescence). <10, 10+, 20+, 40+
Category & Sub category	A qualitative gradingA to C or U recorded on tree survey plan and assigned a colour, see Table 1 in report

APPENDIX 2

Tree Constraints Plan – Existing

(AAS/0511 TCP – Rev 01 – November 2024)

Tree Constrains Plan – Layout with tree removals

(AAS/0511 TCP TR– Rev 01 - November 2024)

Tree Protection Plan – Proposed

(AAS/0511 TPP – Rev 01 November 2024)

Arc Arboricultural Solutions

Highfields, East Grinstead
Tree Constraints Plan - Existing

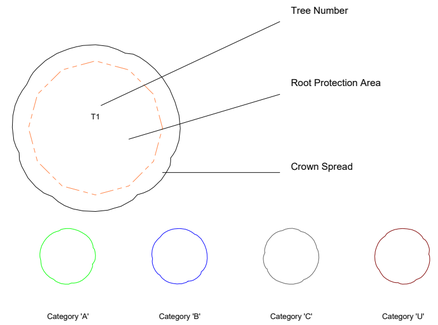
SCALE : 1 : 500 @ A2

DATE : 19/11/2024

AAS/04511TCP - Rev 01 November 2024

N

PLAN TO BE READ IN COLOUR



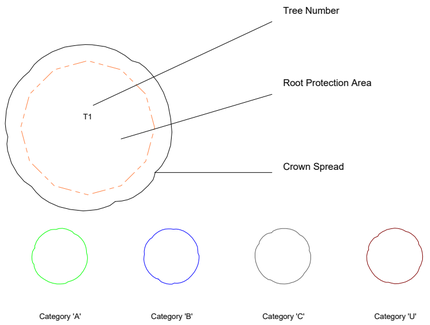
0 60m

Arc Arboricultural Solutions

Highfields, East Grinstead
Tree Constraints Plan - Proposed Layout with removals

SCALE : 1 : 500 @ A2	DATE : 19/11/2024	N
AAS/04511 TCP - Rev 01 November 2024		

PLAN TO BE READ IN COLOUR



0 60m

- New access and parking
- Category U trees for removal
- Trees removed to facilitate development
- Care home footprint
- Encroachment into RPA

Arc Arboricultural Solutions

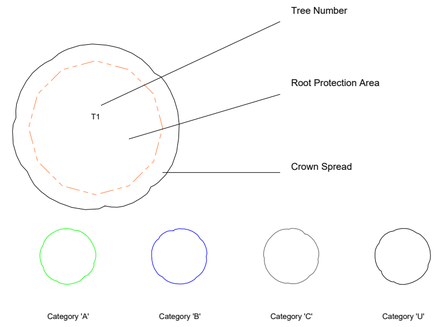
Highfields, East Grinstead
Tree Protection Plan - Proposed Layout

SCALE :	DATE :
1 : 500 @ A2	19/11/2024

AAS/04511 TCP - Rev 01 November 2024

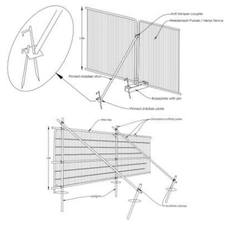
N

PLAN TO BE READ IN COLOUR



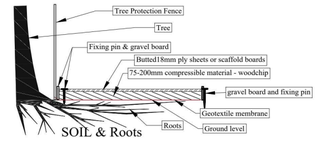
0 60m

- New access and parking
- Care home footprint
- Encroachment into RPA
- No-dig installation
- Ground Protection
- Manual excavation/root pruning
- Temporary Fencing
- Tree Protection Fencing
- Tree protection fencing



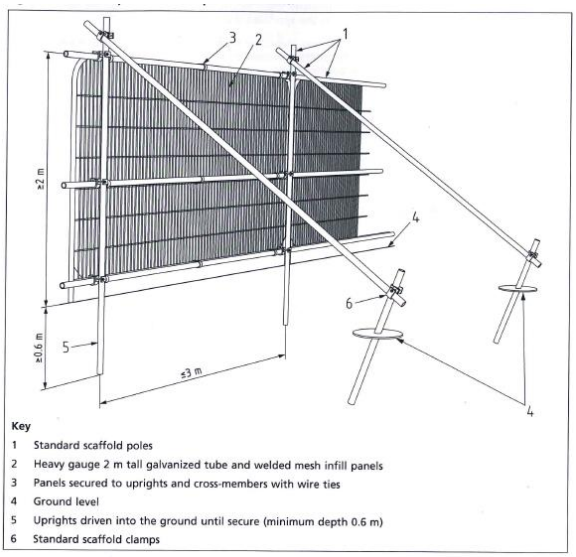
GROUND PROTECTION

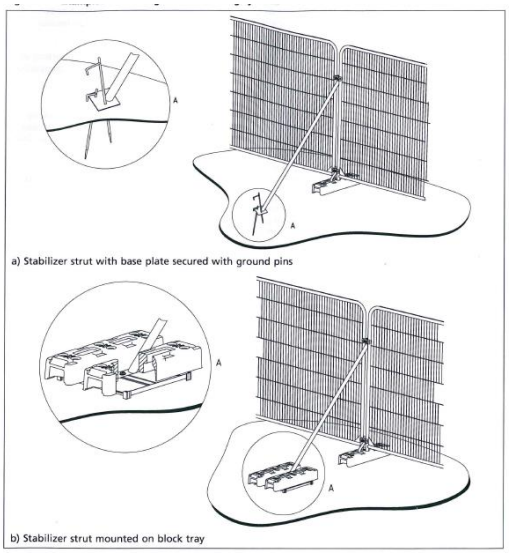
For pedestrian and vehicle weights up to 2000KG within the RPA the installation of ground protection shall be in the form of a single thickness of scaffold boards or ply board on top of a compressible layer of woodchip (100 - 200mm deep) laid onto a geotextile, or supported by scaffold. For heavier traffic a proprietary system such as GreenTek Ground-Guards (heavy duty plastic ground protection mats clipped together) laid above 150mm deep layer of compressible woodchip. Or; pre-cast reinforced concrete slabs. No storage or mixing of potentially hazardous materials within these areas; such as diesel fueling or cement mixing (unless specific precautions have been made that prevents runoff / contamination into the ground from any spillage).



APPENDIX 3 - Tree protection fencing and ground protection details

BS 5837:2012 Specification for protective barrier



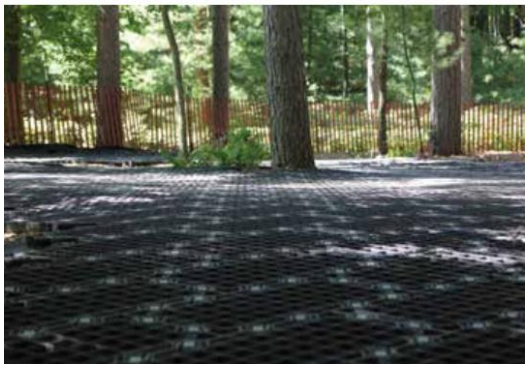


Types of Ground Protection

There are various proprietary ground protection mats on the market which provide a secure and stable solution to preventing compaction within the Root Protection Area of a tree.

Various suppliers are available, by using Google and looking for '*Ground Protection/compression Mats'* a supplier can be found.

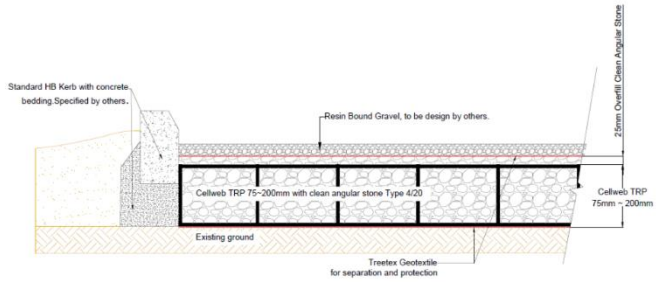
Ground protection should be laid over an impermeable geo-textile to prevent leakage of any toxic materials into the soil beneath



APPENDIX 4– No Dig construction

Cellular confinement systems - http://www.geosyn.co.uk/wp-content/uploads/2018/02/Cellweb-TRP-Technical-Support-Package-.pdf

Generic no-dig load bearing construction



Generic Method Statement for No-Dig Construction

Incorporating principles set out in Arboricultural Practice Note 12 (APN 12) – The use of Cellular Confinement Systems Near to Trees –

Prior to any construction on site protective fencing will be installed where shown on the Tree Protection Plan in Appendix 2 to ensure the Root Protection Area (RPA) is not compromised.

1. Ground vegetation within the area identified to be treated with a translocated herbicide e.g. glyphosate.
2. Dead organic matter to be removed by hand ensuring large stones, roots and any stumps are removed or ground out.
3. Any hollows should be filled with clean sharp sand.
4. Lay geotextile matting across the full width of the area, this is to prevent roots intruding into the sub-base.
5. Cellular confinement system to be laid over the geotextile in accordance with manufacturers installation instructions.
6. Edges to be secured with tanalised softwood boards 150 x 20 x 200 and secured by tanalised softwood pegs at 1500 mm centres or alternative agreed with arboricultural professional.
7. Install and secure cellular load bearing product as per the manufacturer's instructions.
8. Backfill the voids with NO FINES angular stone and place the desired surface treatment over the top.

More guidance is provided in Arb Practice Note 12.

APPENDIX 5 – Statement of Supervision – Highfields, West Hill, East Grinstead, RH19 4DL

Introduction

In accordance with a planning application to be submitted for Highfields, West Hill, East Grinstead, RH19 4DL

The purpose of this document is to ensure that all works that have an impact on retained trees is undertaken with the approved Method Statement and Tree Protection Plan. As such the purpose of the statement is to identify the following arboricultural issues.

- Approved documents
- Key staff and contacts
- Critical phase of pre-commencement, induction, and construction.

Approved Documents

The following documents must be available to all those with responsibility for arboricultural matters during construction.

- BS 5837 2012; Trees in Relation to Design, Demolition and Construction – Recommendations.
- Notice of Planning Decision – decision pending
- Arboricultural Method Statement and Tree Protection Plans for Highfields, West Hill, East Grinstead, RH19 4DL produced by Arc Arboricultural Solutions Ltd dated November 2023: -
    - AAS/0511 – TPP Rev 01 November 2024

Key Staff

Below are key people responsible for arboricultural matters on site during construction.

Agent	Westbournes	-	-
Arboricultural Consultant	Arc Arboriculture	Arc.arboriculturalsolutions@gmail.com	07553 870759
Site Manager	TBC	-	-

APPENDIX 6– Timetable for Tree Protection Works

Item	Operation*	Pre-Construction	During Construction	On Completion
1	Carry out scheduled tree works to removed, G1848/1a, b, W1804, 1849, 1851, 1852, 1870, 1872, 1875, 1879, 1813, 1814, 1815, 1824, 1826, 1827, 1830, 1833, 1834, 1835, 1837, 1838, 1841, 1842, 1843, 1844, 1845, 1847, 1854, 1855, 1861, 1868, 1869 Pre-commencement site meeting to discuss tree protection details	X	-	-
2	Erect temporary fencing and ground protection as plan ref AAS/0511 – TPP Rev 01 November 2024 - Appendix 2	X	-	-
3	Affix warning signs to fencing – Appendix 9	X	-	-
4	Demolish main dwelling. Carry out root pruning works, and construction of no-dig for new access	-	X	X
5	Following completion of root pruning and installation of no-dig re-align temporary fencing as plan AAS/0511 Rev 01 TPP November 2024 – Appendix 2		X	X
6	Arboricultural supervision and advice including site visits during the works to check the CEZ and liaison with the Local Authority as required.	X	X	X
7	Remove both protective fencing and ground protection	-	-	X
8	Check condition of the protected trees and consider if remedial works are necessary.	-	-	X

* All work to comply with the attached Arboricultural Method Statement and BS5837: 2012 Trees in relation to design, demolition and construction - Recommendations"

APPENDIX 7 - General Guidance

The following general precautions must be taken during the construction phase.

- No materials or fuel shall be stored close to or within the RPAs of trees to be retained or where new trees are to be established.
- There shall be no bonfires within 10m of the outer edge of the crown or RPA of a tree to be retained.
- Mechanical equipment must not be refuelled within the RPAs of retained trees or areas where new trees are to be established.
- No cement shall be mixed or stored within the RPAs of retained trees or areas where new trees are to be established.
- Cement mixers must not be washed within or uphill of the RPAs of retained trees or areas where new trees are to be established.
- The soil level within the RPA of a retained tree must not be raised or lowered without the agreement of the local authority Tree Officer.
- No plant shall be operated within the RPAs of retained trees unless the soil is suitably protected against compaction.
- Excavation should not take place within the RPAs of retained trees unless an arboricultural consultant or the local authority Tree Officer is supervising the work.
- The guidance provided by NJUG (2007) should be followed when installing
- underground services within the RPAs of retained trees.
- Surface water runoff must not be redirected into or out of the RPA of a retained tree.
- No materials shall be dumped within the RPA of a tree, whether in a skip or on the ground.
- No vehicles shall be parked or operate within the RPA of a retained tree.

APPENDIX 8 – Signs to be printed at A3, lamintated then afixed to Tree Protection fencing

Arc Arboricultural Solutions

W: www.arc.arboriculturalsolutions.co.uk
E: info@arc-arboriculturalsolutions.co.uk
M: 07553 870759