

Arboricultural Method Statement

Martin Betts

**Badgers Brook,
London Road,
Bolney,
Haywards Heath,
RH17 5PY**

06 November 2025

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If this report has been released electronically the appendices referred to herein can be found in the annexed zip folder/s as .pdf files. If this report has been released in hard copy the appendices will be bound into the back of this report. Plans are annexed separately as A0, A1, A2 or A3 as appropriate.

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Introduction

Arbtech Consulting Limited (Arbtech) received written instruction on 17th June 2022 from Martin Betts to attend Badgers Brook, London Road, Bolney, Haywards Heath, RH17 5PY; grid reference, TQ264235 (site) to undertake an arboricultural survey to BS5837:2012 guidance to assess trees, hedges and major shrub groups growing on and within influencing distance of the site and to produce a Schedule of trees, Tree Constraints Plan, Arboricultural Impact Assessment, Arboricultural Method Statement and Tree Protection Plan.

Following a number of revisions to the proposal the Arboricultural Impact Assessment, Arboricultural Method Statement and Tree Protection Plan were updated to consider the revised proposal in October 2025.

Executive Summary

This report describes the extent and effect of the proposed development at Site on individual trees and groups of trees within and adjacent to the site.

Trees within the site were surveyed; using a methodology guided by British Standard 5837:2012 'Trees in relation to design, demolition and construction – Recommendations' ("BS5837").

Subsequently, this report has been produced, balancing the layout of the proposed development against the competing needs of trees. This report comprises all of the requisite elements of an arboricultural implications assessment, method statement and supporting plans.



Figure 1: OS Map (Bing Maps)



Figure 2: Aerial Image of site with approximate red line boundary (Google Earth)

Proposed scheme

The proposal is to demolish the existing dwelling and outbuildings and replace with six detached houses.

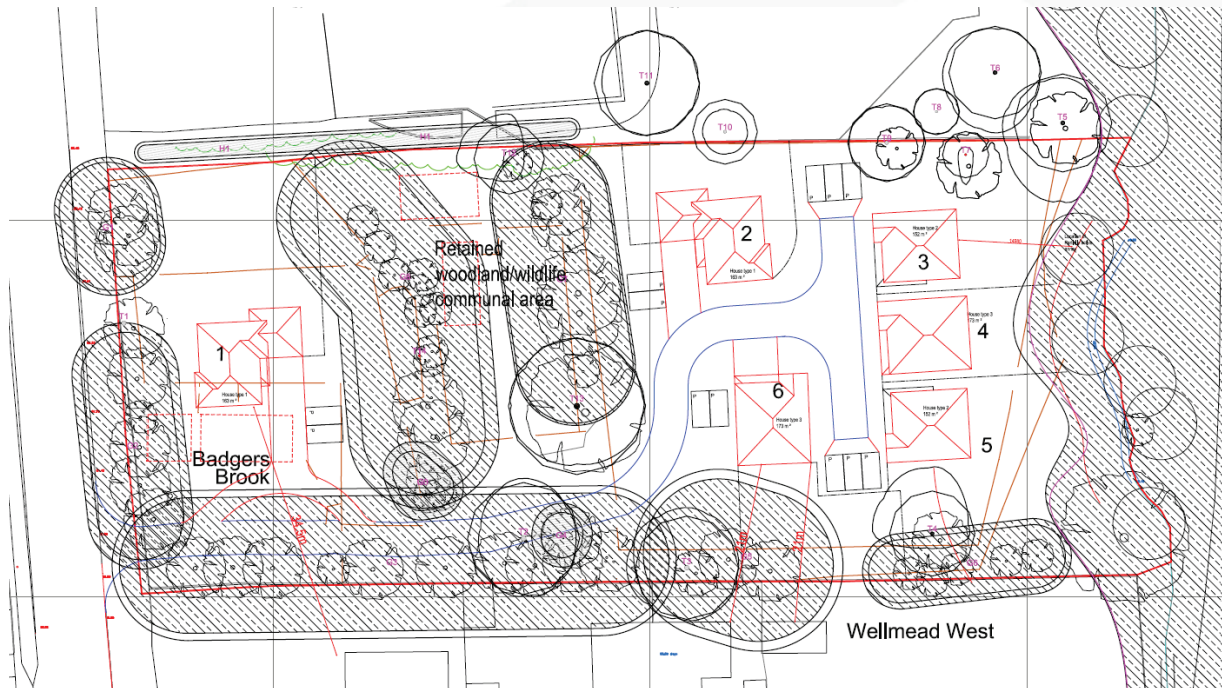


Figure 3: Excerpt from Highways, Refuse, Recycling, Cycle Storage and Drainage Layout, Drawing number 402.BBHH.102 Rev C (dps Architectural Consultant)

It is likely that arboricultural impacts can be addressed with arboricultural methodology or minor amendments to the proposal.

Checklist for Submission to Local Planning Authority

Tree survey	✓
Tree constraints plan	✓
Arboricultural impact assessment	✓
Arboricultural method statement	✓
Tree protection plan	✓

This report and its appendices precisely follow the strategy for arboricultural appraisal intended to provide local planning authorities with evidence that trees have been properly considered throughout the development process.

It is the conclusion of this report that the overall quality and longevity of the amenity contribution provided for by the trees and groups of trees within and adjacent to the site will not be adversely affected as a result of the local planning authority consenting to the proposed development. It is considered that any issues raised in this report, or beyond the scope of it can be dealt with by planning conditions.

General Information

Client: Martin Betts

Site: Badgers Brook, London Road, Bolney, Haywards Heath, RH17 5PY.

Brief proposal description: The proposal is to demolish the existing dwelling and outbuildings and replace with six detached houses.

Planning application reference: N/A

Table 1: Documents referred to.

Document	Reference No.
Topographical / Site survey drawing	060122
Proposed layout drawing	402.BBHH.102 Rev C
Landscape master plan drawing	N/A
LPA pre-app comments	N/A
British Standard 5837:2012	“BS5837”
Arboricultural Impact Assessment	Arbtech AIA 03
Tree Protection Plan – demolition phase	Arbtech TPP 03 Demo
Tree Protection Plan – construction phase	Arbtech TPP 03 Con

Tree Survey

Survey: An arboricultural survey to BS5837 of all trees within impacting distance of the site was undertaken by Jim Green on 08 July 2022 and updated 06 September 2024.

A total of 14 (fourteen) individual trees, 10 (ten) groups of trees and 1 (one) hedge were surveyed. Details for each of the trees surveyed are provided in the Schedule of Trees (see Appendix 1)

Table 2: Documents upon which this tree survey has been based.

Document	Originator	Reference Number	Title
Topographical / Site survey drawing	Tahi Engineering Ltd	060122	Topographical Survey

Limitations: The survey was made at ground level using visual observation only. Detailed examinations, such as climbing inspections and decay detection equipment were not employed, though may form part of the survey’s management recommendations. Measurements were taken using specialist tapes, laser, and GPS devices. Where this was not possible, measurements are estimated.

Scope: Pre-development tree surveys make arboricultural management recommendations based exclusively upon the individual tree or group of trees condition relative to their present context (*i.e. not in relation to the proposed development*).

Legal Status: No statutory protection check has been performed. BS5837 does not draw any distinction between trees subject to statutory protection, such as a Tree Preservation Order (“TPO”), and those trees without, stating at Annex B:

*The potential effect of development on trees, **whether statutorily protected** (e.g. by a tree preservation order or by their inclusion within a conservation area) **or not**, is a material consideration that is taken into account in dealing with planning applications.*

Consequently, we do not seek to offer any comparison between or infer any difference in the quality or importance of TPO trees and other trees.

For more information on the surveyed trees please see Arbtech Consulting Ltd, Tree Survey Schedule (**Appendix 1**), Tree Survey Report and Tree Constraints Plan.

Arboricultural Impact Assessment

Table 3: Documents upon which this assessment has been based.

Document	Originator	Reference Number	Title
Topographical / Site survey drawing	Tahi Engineering Ltd	060122	Topographical Survey
Proposed layout drawing	dps Architectural Consultants	402.BBHH.102 Rev C	Proposed Site Layout

Several issues may need to be addressed in an arboricultural impact assessment between the trees and the proposed development, these are as follows:

- The effect and extent of the proposed development within the root protection areas (RPAs) of retained trees;
- The potential conflicts of the proposed development with canopies of retained trees; and
- The likelihood of any future remedial works to retained trees beyond which would have been scheduled as a part of usual management.

Table 4: Impacts upon the RPAs of retained trees.

Tree Number	Species	Structure	RPA (m ²)	Incursion	
				(m ²)	(%)
G3	A Group	Hard surface	311.7	45.1	14.5
G5	A Group	Fence	399.7	Negligible	0.0
G6	A Group	Fence	55.4	Negligible	0.0
G8	A Group	Fence	209.2	Negligible	0.0
T4	Wild Cherry	Fence	95.7	Negligible	0.0

These impacts can be seen on the Arboricultural Impact Assessment drawing number Arbtech AIA 03.

Trees to be removed

The implementation of the proposed development requires the removal of 4No. individual trees; 1No. group of trees and the partial removal of 1No. group of trees.

A breakdown of all tree removals and pruning works can be seen in Table 8. Summary of Tree Works.

Table 5: Number of individual trees to be removed.

U	A	B	C
2	0	0	2

Table 6: Number of groups to be removed.

U	A	B	C
0 (0)	0 (0)	0 (1)	1 (0)

() = partial removal of a group

Canopy cover is ecologically important and the loss of canopy cover by this tree will be mitigated with planting within the development.

Arboricultural Method Statement

The purpose of this method statement is to demonstrate how any aspect of the development that has potential to result in loss or damage to a tree may be implemented and provide an adequate level of protection for those trees that are to be retained during the proposed works.

Details of key site personnel, including site/project manager will be submitted to the Council's Tree Officer before the commencement of site works.

This method statement is to be approved and agreed to in writing by all key personnel before the commencement of site works.

No site personnel are to be present and no demolition, site clearance, building work or delivery of materials is to occur until the protective measures are in accordance with this method statement and the Tree Protection Plan drawing number Arbtech TPP 03 Demo.

Protective measures will be in accordance with this method statement and the Tree Protection Plan; drawing number Arbtech TPP 03 Demo will remain unaltered and in situ, unless otherwise specified, for the entire duration of the construction.

Table 7: Documents upon which this assessment has been based.

Document	Originator	Reference Number	Title
Topographical / Site survey drawing	Tahi Engineering Ltd	060122	Topographical Survey
Proposed layout drawing	dps Architectural Consultants	402.BBHH.102 Rev C	Proposed Site Layout

Tree Works

For reasons of public safety, all tree works referred to herein must be carried out before any site personnel commencing works or any building materials being delivered.

Table 8: Summary of Tree Works.

No.	Species	Works	Category
G2	A Group	Partial removal of group: Fell trees to ground level; grind out stumps. Prune remaining trees to achieve 6m clearance over the site.	B12
G3	A Group	Prune: Lapsed pollards with decay in main stem, repollard.	B12
G4	A Group	Fell trees to ground level grind out stumps.	C12
G5	A Group	Prune: Crown lift to achieve 5m ground clearance over site.	B12
T2	Common Ash	Fell tree to ground level; grind out stump.	C12
T4	Wild Cherry	Prune: Crown lift to achieve 5m ground clearance over site.	B1
T7	Unknown	Fell tree to ground level; grind out stump.	U
T9	Common Oak	Fell tree to ground level; grind out stump.	C1
T14	Common Oak	Fell tree to ground level; grind out stump.	U

Notes

All tree work is to be undertaken in accordance with British Standard BS 3998:2010, Recommendations for tree work. All arising's are to be removed and the site is to be left as found. Care is to be taken of the ground around retained trees to make sure that it does not become compacted as a result of tree surgery operations. No equipment or vehicles such as timber Lorries, tractors, excavators, or cranes shall be parked or driven beneath the crowns of any retained trees, to prevent subsequent compaction and root death.

Tree removal

A tree should be felled in one piece only when there is no significant risk of damage to people, property, or protected species (see Annex A).

Where restrictions (e.g. lack of space, buildings, other features, land ownership or use, or other trees which are to be retained) cannot be overcome, trees should be dismantled in sections.

This also applies where a tall stump is being retained but where branches are to be removed/pruned.

Extensively decayed trees can be unpredictable when they are being felled, and special precautions should, therefore, be taken, such as the use of a winch to guide the direction of fall.

Stump removal – stump grinding

Stump grinding will be to a minimum of 300mm deep or to extend through the base of the stump leaving the major roots disconnected if the intention is to reduce the potential for the spread of Honey fungus.

The grinding residue will be treated as arising's and removed from site.

NOTE: Mechanical destruction of a stump by stump grinding is less disruptive to the site than digging out.

The hole left by stump removal will be filled with soil or other material. The filling should be appropriate for future site usage, and for any surface treatment that is to be installed.

Where future plant growth is desired, the backfill material will be firmed in 150 mm layers by treading, avoiding excessive compaction and destruction of the soil structure.

After stump removal

The hole left by stump removal, whether by digging out or grinding, will be filled with soil or other material. The filling will be appropriate for future site usage and for any surface treatment that is to be installed.

Where future plant growth is desired, the back-fill material will be firmed in 150mm layers by treading, avoiding excessive compaction and destruction of the soil structure.

Protected Species (general informative for tree works)

Conservation Status of British Bats

The consensus in Britain and Europe is that virtually all bat species are declining and vulnerable. Our understanding of population status is poor as there is very little historical data for most bat species. Certain species, such as the horseshoe bats, are better understood and have well-documented contractions in range and population size.

Given this general picture of decline in UK Government within the UK Biodiversity Action Plan has designated five species of bats as priority species (greater and lesser horseshoe bats, barbastelle, Bechstein's and pipistrelle). These plans provide an action pathway whereby the maintenance and restoration of the former populations' levels are investigated.

Legal Status of British Bats

Given the above position, all British bats, as well as their breeding sites and resting places, enjoy national and international protection.

All bat species in the UK are fully protected under the Wildlife and Countryside Act 1981 (as amended) through inclusion in Schedule 5. All bats are also listed on Annex IV (and some on Annex II) of the EC Habitats Directive giving further, European protection. Taken together, the Act and Conservation of Habitats and Species Regulations 2012 (as amended)* make it an offence to; intentionally or deliberately kill, injure or capture (take) bats;

- Deliberately disturb bats (whether in a roost or not);
- Damage, destroy or obstruct access to bat roosts;
- Possess or transport a bat or any part of a bat, unless acquired legally;
- Sell, barter or exchange bats, or parts of bats

The legislation although not strictly affording protection to foraging grounds does protect roost sites. Bat roosts are protected at all times of the year whether or not bats are present. Any disturbance of a roost due to development must be licenced.

**the regulations that delivered by the UK's commitments to the Habitats Directive.*

Breeding birds

All nesting birds are protected under the Wildlife and Countryside Act (as amended) 1981, which makes it an offence to intentionally kill, injure or take any wild bird or take, damage or destroy its nest whilst in use or being built, or take or destroy its eggs. Furthermore, several birds enjoy further protection under that Act and are listed on Schedule 1 of the Act. These further protected birds are also protected from disturbance and it may be necessary to operate “no-go” buffer zones around such nests – typically out to 100m.

Planning policy guidance on the treatment of species identified as priorities under the biodiversity action programme suggests that local authorities should take measures to protect the habitats of these species from further decline through policies in local development documents and should ensure that they are protected from the adverse effects of development, where appropriate, by using planning conditions or obligations. The conservation of these species should be promoted through the incorporation of beneficial biodiversity designs within developments.

Sequencing of works

A logical sequence of events is to be observed and shall be phased as follows.

Table 9: Sequence of Events

Stage	Event
Stage 1	Carry out tree works as specified within the summary of tree works
Stage 2	Installation of protective measures in accordance with the approved tree protection plan/s
Stage 3	Pre-commencement site meeting
Stage 4	Construction site set up
Stage 5	Undertake demolition of existing structures and hard surfaces
Stage 6	Re-location of protective measures
Stage 7	Undertake and complete construction works
Stage 8	Undertake external landscaping works outside of the construction exclusion zones
Stage 9	Removal of all machinery and materials form site
Stage 10	Dismantle and removal of protective measures
Stage 11	Undertake external landscaping works within the construction exclusion zones
Stage 12	Sign off from Project Arboriculturist

Protective Measures

Protective measures are to be installed immediately following the completion of the tree works and are to be sited and aligned in accordance with the tree protection plan (Arbtech TPP 03 Demo) before the commencement of any works or the introduction of any machinery or material to Site.

Upon installation of the protective measures around the retained trees, the Project Arboriculturist will visit the site to inspect and document the position and specifications of the protective measures.

If the protective measures and their positions do not comply with this arboricultural method statement document number Arbtech AMS 03 and tree protection plan drawing number Arbtech TPP 03 Demo, the Project Arboriculturist shall inform the client and fencing contractor so adjustments can be made.

When the protective measures comply with document number Arbtech AMS 03 and tree protection plan drawing number Arbtech TPP 03 Demo, the Project Arboriculturist will sign off the protective measures in writing to the client and will send a copy to the fencing contractor, site agent and local authority tree officer.

If the protective measures become damaged or there is any accident or emergencies involving trees, these areas are to be cordoned off immediately with high visibility plastic mesh fencing. The site agent is to photograph and document the damage and inform the Project Arboriculturist immediately after the incident and all work within this area is to cease until the Project Arboriculturist has visited the site. Any damaged sections of protective measures shall be replaced within 48 hours of the initial incident.

The protected area is sacrosanct and will not be invaded by the storage of materials, mixing of concrete or other products, accessed by machinery, equipment, or pedestrians or in any other way disturbed by construction activity.

The protective measures will remain in place until the completion of stage 9 (see Sequencing of Works), thereafter they will be carefully dismantled only with the agreement of the Project Arboriculturist and or the local authority tree officer.

The existing site boundary measures are to be retained for the duration of the development. If for any reason the existing boundary measures are not to be used protective barrier fencing is to be installed along the line of the boundaries and is only to be removed upon the written permission of the Project Arboriculturist upon the

completion of the development or immediately before the installation of the permanent boundary measures.

The proposed hard surfacing is to be installed immediately to act as ground protection, where it is decided that this is not a viable option these areas are to be covered by ground boarding as designed by the project engineer to cope with any likely loading.

No equipment, vehicles or plant shall operate beyond the tree protection fencing. Booms, hoists, and rigs should be kept as far away from the canopies of retained trees at all times. Where it is necessary to operate within 5m of a tree canopy, it will be done with the utmost caution and under the control of a banks man. Damage to trees will be considered a breach of this tree protection plan, which in turn could be a breach of planning permission.

Construction Exclusion Zone

A construction exclusion zone (CEZ), as designated by the protective barrier fencing, is an area where there is to be no construction activity. Access to the area for construction personnel or machinery is strictly prohibited, unless detailed in the tree protection plan, and there is no scope for materials or waste storage; welfare facilities etc. There may be some construction activities planned for these areas (e.g. the installation of service trenches) these activities will be undertaken under direct, on-site arboricultural supervision.

Protective Barrier Fencing

Protective barrier fencing should be appropriate for the intensity and proximity of the development to protect trees where development activity is nearby.

To comprise of 2m tall welded mesh panels on rubber or concrete feet. Panels are to be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence. The panels will be supported on the inner side by stabiliser struts, which will be attached to a base plate and secured with ground pins.

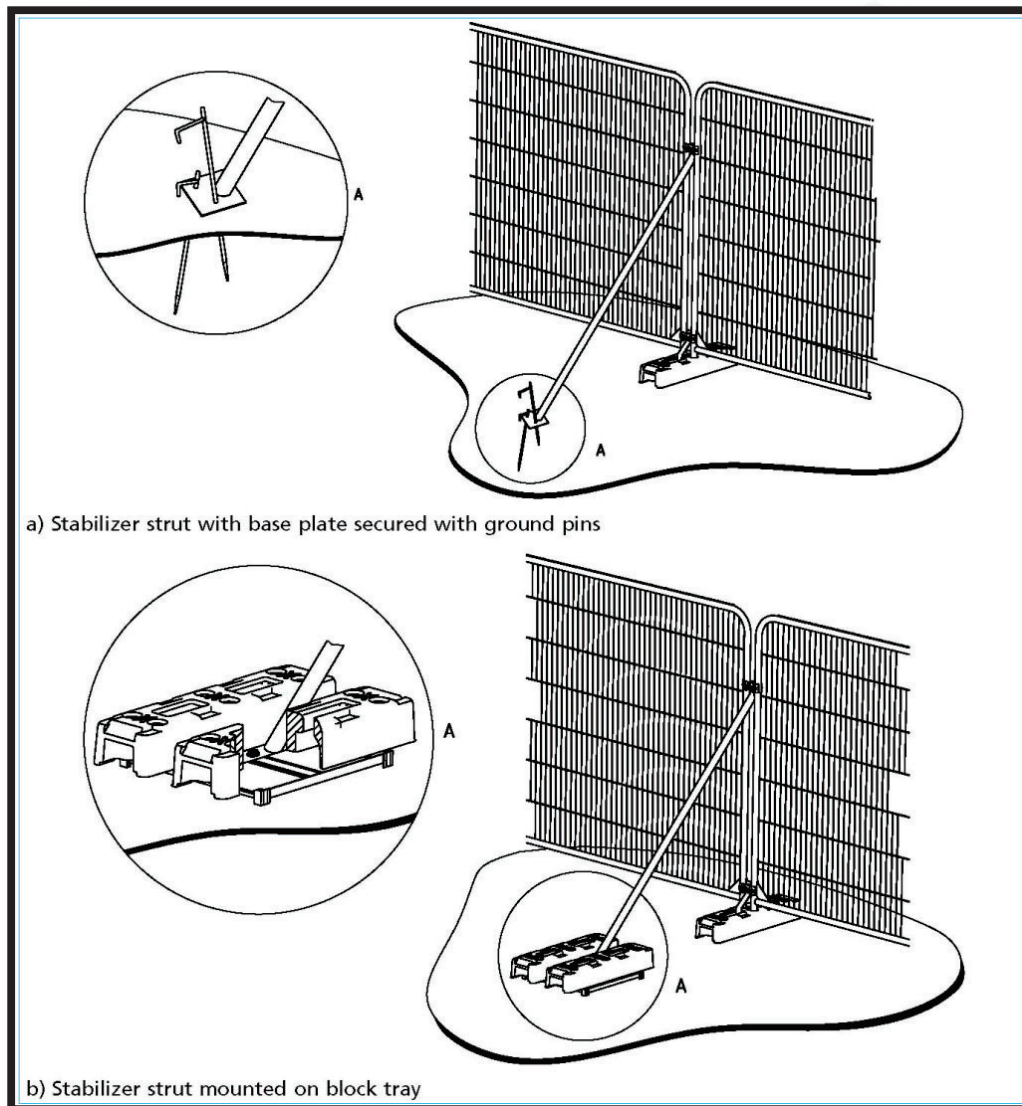


Figure 4: Examples of protective barrier fencing with above-ground stabilising systems (BS5837).

Signage denoting the words “*tree protection area*” at 5.0m intervals will be fixed to the protective barrier fencing (See Appendix 2).

Protective fencing is to be removed ONLY with the written permission of the Project Arboriculturist.

Ground Protection

The existing sub-base/hard standing will be retained within the area of the proposed vehicular access to act as passive ground protection for the duration of the development process. If removed, it will be replaced immediately with new temporary ground protection or the replacement hard surface.

New temporary ground protection should be capable of supporting any traffic entering or using the site without being distorted or causing compaction of the underlying soil.

Note: The ground protection might comprise one of the following:

- a) for pedestrian movements only, a single thickness of scaffold boards placed either on top of a driven scaffold frame, as to form a suspended walkway, or on top of a compression-resistant layer (e.g. 100mm depth of woodchip), laid onto a geotextile membrane;
- b) for pedestrian-operated plant up to a gross weight of 2t, proprietary inter-linked ground protection boards placed on top of a compression-resistant layer (e.g. 150mm depth of woodchip), laid onto a geotextile membrane;
- c) for wheeled or tracked construction traffic exceeding 2 t gross weight, an alternative system (e.g. proprietary system or pre-cast reinforced concrete slabs) to an engineering specification designed in conjunction with arboricultural advice, to accommodate the likely loading to which it will be subjected.

For situations other than those described in a) or b), the ground boarding is to be designed by a suitably qualified person to an engineering specification in conjunction with arboricultural advice, to be able to support the expected loading to be placed upon it.

In all cases, the objective of the ground boarding is to avoid compaction of the soil beneath, so that tree root function remains unimpaired.

At this stage, no contractors have been approached so it is not possible to know exactly what equipment they have available and will be using.

Due to the various sizes of demolition and construction plant available and the potential requirements for material storage within the site, the final specifications for the ground boarding is to be designed and supplied to the Project Arboriculturist for their approval by the project engineer a minimum of ten (10) working days before its installation.

Prohibition

- Mechanical digging or scraping is not permitted within a defined root protection area or areas cordoned off by protective barrier fencing.
- No access will be permitted within the protected areas;
- No materials, equipment or debris will be stored within any of the fenced areas, or against the fencing;
- Fires are not permitted within 10m of any vegetation.
- Leaning objects against or attaching of objects to a tree is not permitted.
- Machinery, plant, and vehicles are not permitted to be washed down within 10m of vegetation.
- Chemicals and materials are not to be transported, stored, used, or mixed within a root protection area or areas cordoned off by protective barrier fencing.
- Cement silos, mixing site to be situated within a bunded area to prevent spillage/leaking of chemicals harmful to trees. These areas are to be sited well clear of protected trees.
- Refuelling of plant or machinery is prohibited within 10m of the construction exclusion zones.
- Allowance must be made for the slope of the ground so that damaging materials such as concrete washings, mortar or diesel oil cannot run towards trees.
- Where machinery is to be used within 5m of retained tree canopies a banks man will be required at all times whilst setting up, moving, or operating within this distance of retained trees canopies.
- Storage of all caustic material and chemicals are to be situated well clear of protected areas and preferably on lower ground if slopes are present, or to be situated within a bonded area to prevent any spills or leaks entering the ground.

Demolition

Before the demolition of the existing site features, all tree works are to have been completed, tree protection measures are to be in place as per Arbtech Consulting Ltd. tree protection plan document number Arbtech TPP 03 Demo and have been signed off and a copy of the demolition method statement has been submitted and approved by the Project Arboriculturist to ensure that there is no conflict with this method statement.

All demolition work within or immediately adjacent to RPAs or canopies of retained trees is to be undertaken under the direct on-site supervision of an arboriculturist.

Structures

Demolition of the existing outbuildings beneath the canopies and within the RPAs retained trees G8 & T12 as shown on Arbtech TPP 03 Demo by a turquoise 'Cross' hatching is to be undertaken carefully under arboricultural supervision.

The structures are to be taken down so that all debris and materials are to fall outside of the RPAs and away from the canopies of all retained trees.

Foundations within and adjacent to the RPAs of retained trees are to be left in situ wherever possible. Where this is not possible demolition of the existing foundations are to be undertaken to the minimum depth required to allow for the installation of the new soft and hard landscaping.

The removal of the existing foundations within the RPA of retained trees are to be undertaken using a handheld pneumatic breaker, hand tools and wheelbarrows to break up and remove the debris out of the RPA. In some situations, and only at the discretion of the arborist it may be possible to use an excavator using a hydraulic breaker and a suitably sized toothless grading bucket.

It may be permitted by the project arboriculturist for an excavator to undertake the demolition and removal of the foundation, but it must be situated outside of the RPA, on top of the hard surfacing working away from the RPAs or from suitable ground boarding capable of handling the expected loading.

If it is likely that there will be any soil collapse or the trench begins to collapse within the RPAs of retained trees which will lead to the loss of rooting environment, excavations are to be stopped immediately and the trench is to be shored up to prevent further soil collapse.

Where the removal of foundations occurs within the RPAs of retained trees these voids are to be back filled with clean topsoil.

Hard Surfacing

Where it is required for hard surfacing is to be removed and or re-surfaced within the RPAs of retained trees G3 & T13 it is to be undertaken under direct on-site arboricultural supervision, during the landscaping phase of the development.

The wearing course will be broken up using a handheld pneumatic breaker, hand tools and wheelbarrows to break up and remove the surfacing. Where is necessary to remove the subbase, this is to be undertaken using a fork to loosen the material and moved using shovels and wheelbarrows.

In some situations, and at the discretion of the arborist it may be possible to use an excavator using a hydraulic breaker and a suitably sized toothless grading bucket. If an excavator is to be used it must be situated outside of the RPAs, on top of the hard surfacing working away from the RPAs or from ground boarding.

Whichever system is used there is to be **NO** disturbance of the soil beneath. If roots are found they are to be covered over with damp hessian and a layer of either sharp sand, wood chip or topsoil will be applied as soon as practicably possible to prevent desiccation.

Existing Underground Services

Existing services within the site should be retained wherever possible. Where existing services within RPAs require upgrading, the utmost care must be taken to minimise disturbance, and where feasible trenchless techniques are to be employed, and only where necessary should open excavations be considered.

Construction

Before the construction of the proposed development, a copy of the construction method statement will have been submitted and approved by the Project Arboriculturist to ensure that there is no conflict with this method statement.

All excavations and construction work within or immediately adjacent to RPAs or canopies of retained trees is to be undertaken under the direct on-site supervision of an arboriculturist.

Foundations design

The proposed development has been designed to avoid impacts to the RPAs of retained trees and as such will require no specialist construction methodology.

Hard Surfacing

New hard surfacing to be situated within the RPAs of retained trees is to be designed in conjunction with arboricultural advice to accommodate the likely loading. The design will not require excavation however the removal of the turf layer or other surface vegetation may be acceptable if necessary, but ideally, the construction will be situated entirely above the existing soil level.

NOTE: The use of a multi-dimensional confinement system will affect the finished level of the hard surfacing by raising the levels and needs to be taken into consideration when designing foundations and setting the finished floor level of adjacent buildings.

Multi-dimensional confinement system

A multi-dimensional confinement system (such as CellWeb™ or similar) is to be used. It is to be laid entirely above the existing soil surface over a geotextile membrane and or a bi-axel geo-grid (such as Tensar TriAx). Prior to this any small hollows on the surface may be filled with clean sharp sand (not builders' sand) to a maximum depth of 150mm. The 'CellWeb' is to be backfilled by hand with a no-fines aggregate of 20mm – 30mm. The use of an excavator/machinery to fill the confinement system may be possible at the discretion of the Project Arboriculturist.

The area of 'CellWeb' shall be covered with permeable geotextile fabric and the finished wearing course laid on top. The wearing course shall be permeable to both water and air to comply with SUDS methodologies.

Edge supports of an appropriate size and strength will be set above ground level and will be secured with either haunching or steel pins driven into the ground. The outer edge of the supports may be banked up with clean topsoil.

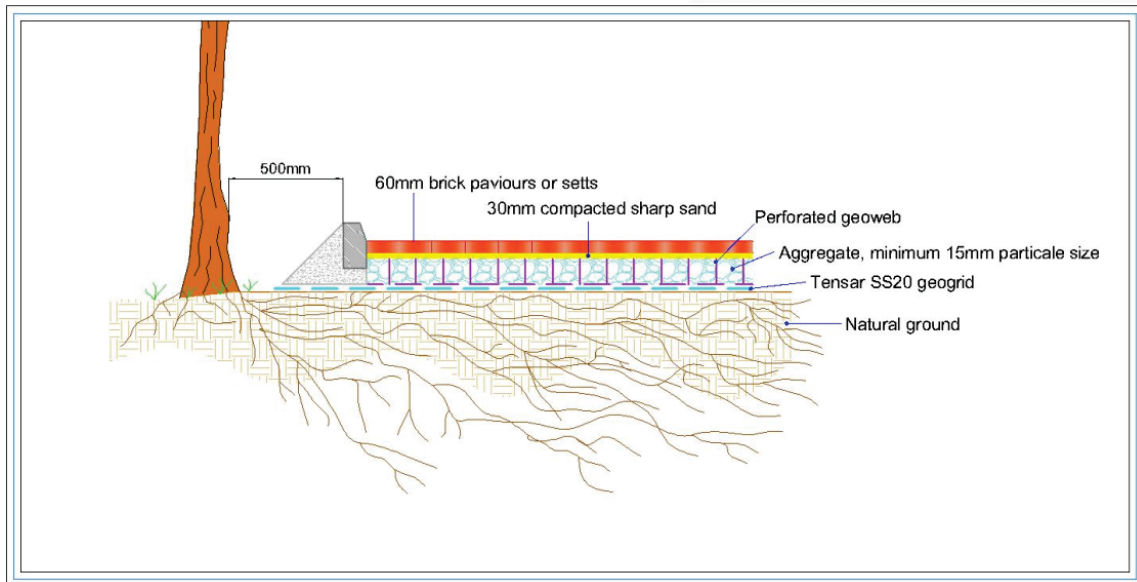


Figure 5: Typical cross-section for multi-dimensional confinement system using kerb edging

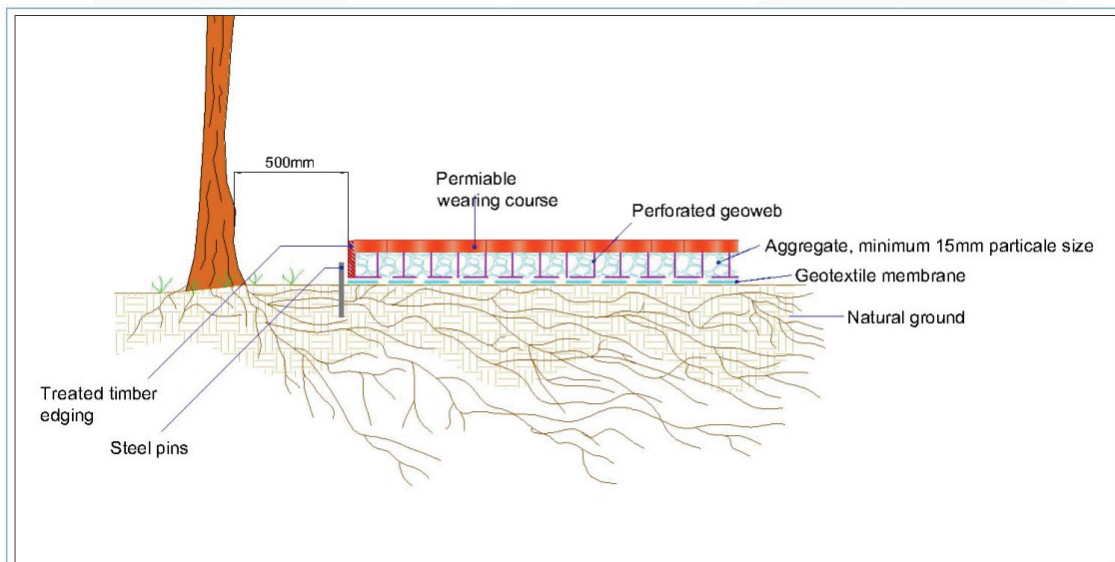


Figure 6: Typical cross-section for multi-dimensional confinement system using timber edging

Installation of a multi-dimensional confinement system

a) Prepare the surface

- Remove any surface rocks and debris;
- Create a level surface by filling in any hollows with clean angular stone or sharp sand;
- Do not level off any high spots or compact the soil through rolling.

b) Layout Geotextile membrane

- Layout the permeable Geotextile membrane, overlaying edges of the required area by 300mm;
- Overlap any joints by 300m or more.

c) Layout multi-dimensional confinement system (MDC)

- Layout the collapsed MDC system on-top of the Geotextile membrane;
- Place one steel pin into the centre cell at one end of the panel and secure it into the ground;
- Pull out the MDC to its full length (see manufacturers specifications), place a steel pin in the centre at the opposite end and secure it into the ground;
- Pull out the MDC to its full width (see manufacturers specifications), and secure each corner into the ground with steel pins;
- Create a panel to the correct size using the required number of steel pins (as per the manufacture specifications);
- Makes sure all cells are fully extended (as per manufactures specifications);
- Staple adjacent panels together (as per manufacturers specifications);
- If a curved shape is required, the panels are to be cut down to the required size and shape once the MDC is pinned out. Do not curve or bend panels into place.

d) Infill with clean angular stone

- The infill material must be a clean (no fines) angular stone (as per manufactures specifications)
- Do not use M.O.T type 1 or crushed stone with fines within or adjacent to RPAs;
- Infill the MDC cells with clean angular stone, working towards the tree using the infilled panels as a platform;
- No compaction is required of the infill. Do not use a whacker plate, roller, or any other means of compaction.

e) Edge restraints

- All kerb edging will be situated on top of the MDC within RPAs, do not excavate within RPAs to install kerb edging;
- Where edging is required for light structures, a peg and treated timber board edging is normally acceptable;
- Other options include wooden sleepers, plastic, or metal edging;
- The outer edges of the supports may be banked up with clean topsoil and or mulch.

f) Wearing course

- Install a permeable geotextile membrane, overlapping any joints by 300mm before laying the wearing course;
- Surfaces can include block paving, asphalt, loose gravel, resin-bound gravel, concrete etc.;
- Within RPAs the wearing course shall be permeable to both water and air.

Boundary fences

Proposed and/or replacement boundary fence posts are to be located so that they will not damage or require the removal of roots important to the stability of any trees. This may require individual posts to be relocated which will increase or decrease the spacing between the posts (bay lengths).

All posts within the RPAs of trees G3, G5, G6 & T4 are to be excavated manually, using handheld tools (spade, shovel, rabbiting spade, post hole digger), no mechanised equipment (handheld or plant mounted post borer) is to be used.

Concrete use within RPAs

Before concrete being poured within or immediately adjacent to the RPAs of retained trees the excavation is to be lined and sealed to prevent any leaching of the concrete into the soil and causing desiccation of retained roots by concrete runoff.

Manual excavation

Excavation within RPAs will be undertaken by hand under direct on-site arboricultural supervision of the required depth of the foundation; Or to a minimum of 600mm deep of any excavation, whether for proposed foundations, hard surfacing, or underground services. The total depth of the manual excavation will be determined by the arboriculturist whilst on site.

The soil is to be loosened with the aid of a fork or pickaxe and then cleared with the aid of an Air-spade, Air-vac and or shovel. Any roots found will be cleanly severed by the Project Arboriculturist with either a hand saw or secateurs.

Any roots found with a diameter of less than 25mm shall be cleanly severed by the Project Arboriculturist. Any roots of 25mm and above shall be excavated around without damaging them; the Project Arboriculturist shall decide if it is feasible or necessary to retain the root, if not it shall be severed.

The edge of the excavation closest to the trees will be covered with damp hessian to prevent soil collapse or contamination by concrete.

The soil beneath the depth may be sheet piled, regular piled or excavated deeper. Machinery may be used for this providing that it is situated outside of the RPA or has appropriate ground protection in place to move around on and work upon.

Site Management

The site manager will be responsible for briefing and inducting all personnel who will be working on any stage of this development and especially those who will be working within or adjacent to the canopies or RPAs of retained trees, and will make them aware of, and provide a copy of this method statement and tree protection plans drawing number Arbtech TPP 03 Demo & Arbtech TPP 03 Con; this is to include but not exclusively the movement and or operation of plant, excavations, unloading deliveries, mixing and or pouring of cement and concrete.

The site manager will be responsible for the day to day running and protection of all retained trees and for liaising with the project arborist about any tree-related matters and before any works that may or will affect the RPAs or canopies of retained trees; this is to include but not exclusively the movement and or operation of plant, excavations, unloading deliveries, mixing, pouring and storage of all caustic materials that may cause harm to retained trees.

Any incidents of damage to retained trees or tree protection measures will be documented by the site manager who will then report these incidents to the Project Arboriculturist immediately and make sure that works within this area cease until the project arborist has had an opportunity to inspect the damage and where appropriate, agree on a mitigation plan with the local planning authority tree officer.

The site manager may designate another person to take charge of briefing and inducting process of new site personnel or visitors in his absence.

If the site manager is replaced or is absent from the site for more than three consecutive working days, the project arborist will be informed, and a prestart meeting will be held with the new or acting site manager.

It is the responsibility of the site manager to ensure that the planning conditions attached to the planning consent are adhered to at all times and that a monitoring regime and supervision of any works within or adjacent to the RPAs are adopted.

If at any time pruning works are required other than those previously approved, permission must be sought from the LPA tree officer and once permission is granted, they are to be carried out by a suitably qualified person in accordance with BS3998:2010 Tree work – Recommendations.

Services

Detailed drawings of proposed underground services are not available at this time; hence it is not possible to identify any specific potential impacts associated with the scheme at this stage.

Existing services within the site will be retained wherever possible. Where existing services within RPAs require upgrading, the utmost care must be taken to minimise disturbance, and where feasible trenchless techniques are to be employed, and only where necessary should open excavations be considered.

Where new services are to be introduced into the site they will be located outside of RPAs, where they will not interfere with tree roots. If any excavations are required within the RPAs all trenches are to be excavated by hand and radially to the tree trunks under direct on-site arboricultural supervision and are to be carried out under NJUG guidelines.

Final positions of any proposed services will be verified and approved by the Project Arboriculturist and local authority tree officer before implementation.

New Underground services

Trenching for installation of underground services and drainage routes could sever any roots that may be present and as such adversely affects the health of the tree. For this reason, particular care will be taken in routing and methods of installation of all underground services. All underground services and drainage routes will be located so that no excavations are required within RPAs.

Where it has been impossible to keep underground services from passing through RPAs or within proximity to trees, these sections are to be installed in one of three ways in accordance with the guidance set out in National Joint Utilities Group guidelines (NJUG 4), under on-site arboricultural supervision.

Trenchless Techniques

There are three main types of trenchless techniques, these include, guided and unguided boring and pipe replacement by lining or bursting. These allow for the installation, maintenance, or renewal of underground services, without the disturbance of soil in which roots are likely to be growing. Starting and receiving pits for the boring machinery are to be located outside of the RPAs of any retained trees, with the bore depth being maintained at a minimum depth of 600mm below the existing ground level.

Techniques involving external lubrication of the equipment shall use no material other than water as other lubricants could contaminate the soil (e.g. oil, bentonite, etc.).

Manual Excavation

Excavation within RPAs will be undertaken by hand under direct on-site arboricultural supervision of the required depth of the foundation; Or to a minimum of 600mm deep of any excavation, whether for proposed foundations, hard surfacing, or underground services. The total depth of the manual excavation will be determined by the arboriculturist whilst on site.

The soil is to be loosened with the aid of a fork or pickaxe and then cleared with the aid of an Air-spade, Air-vac and or shovel. Any roots found will be cleanly severed by the Project Arboriculturist with either a hand saw or secateurs.

Any roots found with a diameter of less than 25mm shall be cleanly severed by the Project Arboriculturist. Any roots of 25mm and above shall be excavated around without damaging them; the Project Arboriculturist shall decide if it is feasible or necessary to retain the root, if not it shall be severed.

The edge of the excavation closest to the trees will be covered with damp hessian to prevent soil collapse or contamination by concrete.

The soil beneath the depth may be sheet piled, regular piled or excavated deeper. Machinery may be used for this providing that it is situated outside of the RPA or has appropriate ground protection in place to move around on and work upon.

Broken Trench – Hand Dug

This technique combines both trenchless techniques and manual excavation where excavation is unavoidable. Excavations will be limited to where there is clear access around and below the roots. All trenches shall be excavated by hand with the same precautions taken as for manual excavation. The open section of the trench will only be large enough to allow access for linking to the next section.

Landscaping

Landscaping around retained trees may only be carried out once all tree protection measures have been removed (planting, turfing, fencing etc.).

All excavations within the Root Protection Areas shall be undertaken by hand and without reducing current ground levels unless it is agreed in writing with the LPA. At no time is the use of a rotavator permitted within the RPAs of retained trees.

Any tree roots discovered will be left in-situ and shall not be cut or otherwise damaged. Where possible, the soil structure within the Root Protection area shall be preserved.

No works will be carried out within the RPAs of any trees if the soil moisture is of such a level that soil compaction may be likely. Should the soil become compacted or has a poor structure which would hinder the development of the existing trees and plants or any new plantings the arboriculturist will be consulted about soil decompaction techniques.

Monitoring and Supervision

Where trees have been identified within this method statement and tree protection plan drawing numbers Arbtech TPP 03 Demo and Arbtech TPP 03 Con for retention, there will be an auditable system of arboricultural monitoring. This is to extend to arboricultural supervision whenever demolition or construction activity is to take place within or adjacent to any canopy or RPA.

The development's tree protection measures are to be monitored and all demolition and construction works are to be undertaken within or adjacent to the RPAs of retained trees are to be supervised by Project Arboriculturist, who will be retained to record and report observations to the council at appropriate intervals.

Pre-commencement site meeting

Before the commencement of any works or machinery and materials arriving on site a pre-commencement site meeting involving the project arborist, landowner or agent, site manager, contractors and engineer (as appropriate) and the relevant LPA officers will be held to ensure that all aspects of the arboricultural method statement and tree protection are understood and for all parties to swap contact details (see Appendix 3).

Monitoring and supervision schedule

The initial monitoring visit will be to check that the tree protection measures are in the correct location and as specified within the approved method statement, if so to sign off their installation.

Thereafter, monitoring visits are to take place at regular intervals, to ensure that tree protection measures are in place and are functioning as designed or whenever necessary to undertake works to be carried out under arboricultural supervision. The frequency of the monitoring visits is to be agreed with the LPA tree officer at the pre-commencement site meeting.

A record of all arboricultural monitoring and supervision visits will be kept, and any faults will be logged, this will then be copied to the site agent, developer, and local planning authority in a digital format.

If during the development areas must be re-designed so that they would require changes to the approved arboricultural method statement or tree protection plan and so affecting retained trees the project arborist and LPA tree officer will be invited to

attend a site meeting with all relevant parties. Before any changes being implemented these must have been approved in writing by the LPA tree officer.

Supervision

The Project Arboriculturist will be required to attend site to directly supervise all demolition and construction works that are to be undertaken within or adjacent to the RPAs of all retained trees and will be advised a minimum of 72 hours before the commencement of any works that require his attendance, these will include:

1. Pre-commencement site meeting.
 2. Location of protective measures.
 3. Supervised demolition of timber structures and foundations within RPAs of trees G8 & T12.
 4. Supervised demolition of hard surfacing within RPAs of trees G3 & T13.
 5. Relocations of tree protective measures from demolition to construction phase.
 6. Pre-commencement site meeting (construction phase).
 7. Installation of 'No Dig' hard surfacing within the RPAs of trees G3.
- Supervised excavations for installation of fence posts within RPAs of trees G5, G6, G8 & T4.
8. Any demolition and or excavations within or adjacent to RPAs, including foundations, hard surfacing or underground services (a non-exhaustive list).
 9. Arboricultural sign off and removal of protective measures.

Completion meeting

Once all construction works have been completed all materials and machinery has been removed from site the project arborist shall be informed and will invite the LPA tree officer to meet on site to discuss the process and discuss any final remedial works that may be required and to sign the development off so that the protective measures may be removed.

Arboricultural Monitoring and Supervision Sign Off Checklist Badgers Brook, London Road, Bolney, Haywards Heath RH17 5PY

Tree Number	Task	Date Completed	Signed (Project Arboriculturist)	Signed (Site Manager)
All	Pre-commencement site meeting			
All	Sign off of the location and specification of the protective measures			
G8 & T12	Supervised demolition of outbuildings			
G3 & T13	Supervised demolition of the hard surfacing.			
All	Completion of demolition			
G3	Installation of no-dig subbase			
G3, G5, G8 & T14	Manual excavation for the installation of fence posts.			
	Additional excavations (if required)			
All	Completion of groundworks			
All	Completion of construction			
All	Removal of machinery and materials from Site			
All	Dismantle & removal of protective measures			
All	Sign off from Project Arboriculturist			

Appendix 1: Tree Survey Schedule

Client: Martin Betts
 Project: Badgers Brook
 Survey Date: 08/07/2022
 Surveyor: Jim Green

Unit 3, Well House Barns
 Chester Road
 Chester
 Cheshire
 CH4 0DH
 Phone: 01244661170



Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)						
G1											
A Group	16	1	530	N	7	2	A: 127.1	Good	C: Good		B.1.2
<i>See comments for details</i>											
				E	6	2	R: 6.36		S: Good	Group of 3 sycamore. Old straw bedding piled around base.	20+ yrs
				S	5	2			B: Good	Dimensions recorded for largest member of group.	
				W	6	2					
G2											
A Group	18	1	480	N	6	2	A: 104.2	Good	C: Good		B.1.2
<i>See comments for details</i>											
				E	7	3	R: 5.75		S: Fair	Linear group of 4 lime and 1 sycamore. Multi-stemmed from base. Tight unions typical of species. Natural bracing visible via branch fusing and meshing. Crown lifted to east and south.	20+ yrs
				S	6	3			B: Fair	Southernmost tree with open cavity below base to west, 400mm wide by 400mm tall by 600mm deep, adventitious roots growing through cavity.	
				W	7	2					
G3											
A Group	19	1	830	N	9	4	A: 311.7	Good	C: Good		B.1.2
<i>See comments for details</i>											
				E	5	6	R: 9.96		S: Fair	Cable brace :: Insert	20+ yrs
				S	9	5			B: Fair	Linear group of lime, ending with 1 silver birch. Limes multi-stemmed from base, tight unions, part-recovered lesions with necrotic sapwood visible and patches of dark exudate. Install cable bracing to limit extremes of movement to unions.	
				W	8	5					
G4											
A Group	13	1	230	N	4	8	A: 23.9	Good	C: Good		C.1.2
<i>See comments for details</i>											
				E	3	9	R: 2.75		S: Fair	Group of 2 silver birch. Minor historical mechanical damage to base to north, good occlusion. Clear stems to ~8m.	10+ yrs
				S	2	10			B: Good		
				W	2	8					

Age Classifications:	N	Newly planted	EM	Early Mature	Condition:	C	Crown	Stems:	Ø	Diameter
	Y	Young	M	Mature		S	Stem	(Eq)	Equivalent stem diameter using BS5837:2012 definition	
	SM	Semi-mature	OM	Over Mature		B	Basal area	ERC:	Estimated Remaining Contribution	

Tree and Tag No Species	Hght (m)	Stems		Crown			Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)							
G5 A Group <i>See comments for details</i>	20	1	940	N	10	2	M	A: 399.8 R: 11.28	Good	C: Good S: Good B: Good	B.1.2 20+ yrs Group of 1 lime and 1 sycamore. Spreading, open-grown crown form, ivy-clad to mid crown. Lime: loose, cracked bark to north of stem from 0.5m to 2m, patches of dark exudate, multi-stemmed from 4m; Sycamore: bifurcation at 1m into codominant stems. Dimensions recorded for largest member of group.	
G6 A Group <i>See comments for details</i>	14	1	350	N	5	5	SM	A: 55.4 R: 4.19	Good	C: Good S: Not visible B: Not visible	B.1 20+ yrs Estimated Measurements Off site group viewed from afar, understorey of elder, nettle and holly restrict detailed inspection of stem and base. Species include cherry, holly and ash. Dimensions estimated for largest member of group.	
G7 A Group <i>See comments for details</i>	17	1	640	N	6	5	SM	A: 185.3 R: 7.68	Good	C: Good S: Good B: Good	B.1 20+ yrs Linear group of oak and birch atop bank 1m higher than lower paddock. Dimensions recorded for largest member of group.	
G8 A Group <i>See comments for details</i>	21	1	680	N	10	5	SM	A: 209.2 R: 8.16	Good	C: Good S: Good B: Good	B.1.2 20+ yrs Remove :: Major dead wood Linear group of oak, ash, cherry and birch. Dimensions recorded for largest member of group. Stem diameters range from 200mm to 680mm. Northernmost tree with pruning wound ~300mm diameter at 3m to west from historical primary limb removal, poor occlusion. Major dead wood over paddocks and stables, up to 80mm diameter and 6m long: Remove major dead wood.	
G9 A Group <i>See comments for details</i>	16	1	230	N	2	9	SM	A: 23.9 R: 2.75	Good	C: Good S: Good B: Fair	C.1.2 10+ yrs Group of 3 silver birch, etiolated due to adjacent dominant trees. Pronounced buttress roots. Northernmost stem with historical mechanical damage to northwest from 0.9m to 1.5m, 40mm at widest point; ribs of adaptive/reactive growth, poor occlusion. Dimensions recorded for largest member of group.	
Age Classifications:	N	Newly planted	EM	Early Mature	Condition:	C	Crown	Stems:	Ø	Diameter	ERC:	(Eq) Equivalent stem diameter using BS5837:2012 definition Estimated Remaining Contribution
	Y	Young	M	Mature		S	Stem					
	SM	Semi-mature	OM	Over Mature		B	Basal area					

Tree and Tag No Species	Hight (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)						
H1										Estimated Measurements	
Various <i>See comments for details</i>	4	1	120	N	0	SM	A: 6.5 R: 1.43	Good	C: Good S: Good B: Good	Linear boundary hedge of laurel and rhododendron. Dimensions recorded for typical member of hedge.	C.2 10+ yrs
T1											
Sycamore <i>Acer pseudoplatanus</i>	15	1	530	N	6	1 SM	A: 127.1 R: 6.36	Good	C: Good S: Good B: Good	Stem divides into 4 codominant stems at 4.5m, tight unions with bark ridges descending 0.5m, loose/cracked bark and patches of dark, wet exudate to base of union. Crown lifted to current dimensions.	C.1.2 10+ yrs
T2											
Common Ash <i>Fraxinus excelsior</i>	21	3	606 (Eq)	N	8	12 EM	A: 166.4 R: 7.27	Good	C: Fair S: Good B: Fair	Cable brace :: Insert Clear stems to ~12m, minor dead wood throughout. Trifurcation from base into codominant stems, tight union with bark ridge descending 1m indicative of inclusion: Install cable bracing to limit extremes of movement to unions.	C.1.2 10+ yrs
T3											
Common Ash <i>Fraxinus excelsior</i>	19	2	559 (Eq)	N	8	9 EM	A: 141.4 R: 6.7	Good	C: Good S: Fair B: Not visible	Stems touching/rubbing from 2m to 4m, moderate bark damage. Bark cracking to underside of western stem. Leaves and debris pile restrict detailed inspection of base.	C.1.2 10+ yrs
T4											
Wild Cherry <i>Prunus avium</i>	16	1	460	N	9	2 EM	A: 95.7 R: 5.51	Good	C: Good S: Fair B: Good	Large surface roots visible to all points, pronounced buttress roots. Stem lean to north of 20 degrees from upright. Part-recovered lesions and swelling to lower stem, amber coloured exudate. Multiple flush-cut wounds to stem to north, east and west, poor occlusion. Minor dead wood throughout.	B.1 20+ yrs
Age Classifications:	N	Newly planted	EM	Early Mature		Condition:	C	Crown	Stems:	Ø	Diameter
	Y	Young	M	Mature			S	Stem	(Eq)	Equivalent stem diameter using BS5637:2012 definition	
	SM	Semi-mature	OM	Over Mature			B	Basal area	ERC:	Estimated Remaining Contribution	

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)						
T5 Common Ash <i>Fraxinus excelsior</i>	16	1	530	N E S W	6 5 11 8	10 9 3 8	A: 127.1 R: 6.36	Good	C: Good S: Good B: Good	Woodland edge tree. Two tear-out wounds at 7m to east, partial occlusion. Minor dead wood throughout.	B.1 20+ yrs
T6 Common Oak <i>Quercus robur</i>	17	1	500	N E S W	6 6 8 7	6 2 2 2	A: 113.1 R: 6	Good	C: Good S: Good B: Good	Estimated Measurements Off site tree viewed from afar from behind boundary fence. Surface roots visible to south. Stem lean to west of 15 degrees from upright.	B.1 20+ yrs
T7 Unknown --	9	1	250	N E S W	1 1 4 1	1 2 2 5	A: 28.3 R: 3	Dead	C: Poor S: Poor B: Poor	Estimated Measurements Standing-dead tree. Collective measurement for 8 stems.	U n/a
T8 Common Hazel <i>Corylus avellana</i>	8	1	250	N E S W	3 3 3 3	2 2 2 2	A: 28.3 R: 3	Good	C: Good S: Good B: Good	Estimated Measurements Off site coppice stool. Collective measurement for 10+ stems.	C.1 10+ yrs
T9 Common Oak <i>Quercus robur</i>	11	2	422 (Eq)	N E S W	5 5 5 5	2 2 2 2	A: 80.6 R: 5.06	Good	C: Good S: Fair B: Good	Historical grazing damage to stem to north, bark missing from 0.6m to 1.2m and 200mm at widest point, poor occlusion, necrotic sapwood visible. Further grazing damage to stem and primary unions to height of 1.8m, partial occlusion. Bifurcation at 1.3m into codominant stems, tight union, clearly evident inclusion descends 1m.	C.1 10+ 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 Contribution TreeMinder											

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)						
Estimated Measurements											
T10 Common Hazel <i>Corylus avellana</i>	8	1	350	N E S W	3 3 3 3	2 2 2 2	A: 55.4 R: 4.19	Good	C: Good S: Good B: Good	Off site coppice stool. Collective measurement for 10+ stems.	C.1 10+ yrs
Estimated Measurements											
T11 Silver Birch <i>Betula pendula</i>	16	1	570	N E S W	7 7 7 6	2 2 2 2	A: 147 R: 6.84	Good	C: Good S: Good B: Good	Off site tree. Bifurcation at 2m into dominant and lesser stems.	B.1 20+ yrs
Estimated Measurements											
T12 European Larch <i>Larix decidua</i>	15	1	380	N E S W	6 2 3 7	12 13 10 10	A: 65.3 R: 4.55	Good	C: Good S: Good B: Good	Large surface roots visible to south and west. Stem lean to northwest of 20 degrees from upright. Minor dead wood throughout.	B.1 20+ yrs
Estimated Measurements											
T13 Common Oak <i>Quercus robur</i>	20	1	740	N E S W	9 9 8 9	8 6 3 3	A: 247.8 R: 8.88	Good	C: Good S: Good B: Good	Spreading, open-grown crown form. Atop bank, large surface roots visible, pronounced buttress roots. Crown lifted to current dimensions leaving flush-cut wounds up to 100mm diameter, poor occlusion. Minor dead wood throughout.	B.1.2 40+ yrs
Estimated Measurements											
T14 Common Oak <i>Quercus robur</i>	14	1	240	N E S W	1 1 1 2	7 7 9 8	A: 26.1 R: 2.88	Poor	C: Poor S: Poor B: Fair	Fell :: Fell to safe height Understorey, suppressed tree. Column of dysfunction from base to 3m to south, Fungal Fruiting Bodies of Trametes versicolor, open decay cavity from 1.5m to 2.5m, 50mm at widest point and 80mm deep, woodpecker holes and copious frass: Fell to 4m to live growth point.	U <10 yrs

Age Classifications:	N	Newly planted	EM	Early Mature	Condition:	C	Crown	Stems:	Ø	Diameter
	Y	Young	M	Mature	S	S	Stem	(Eq)	Equivalent stem diameter using BS56837:2012 definition	
	SM	Semi-mature	OM	Over Mature	B	B	Basal area	ERC:	Estimated Remaining Contribution	

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)						
W1										Estimated Measurements	
A Woodland <i>See comments for details</i>	15	1	400	N	5	3	SM	A: 72.4 R: 4.8	Good	C: Good S: Not visible B: Not visible	B.1.2 40+ yrs
				E	5	3				Off site woodland between boundary and the A23. Species include sycamore, birch, ash, lime and cherry. Dimensions estimated for typical member of woodland.	
				S	5	3					
				W	5	3					

Age Classifications:	N	Newly planted	EM	Early Mature	Condition:	C	Crown	Stems:	Ø	Diameter
	Y	Young	M	Mature		S	Stem	(Eq)	Equivalent stem diameter using BS5837:2012 definition	
	SM	Semi-mature	OM	Over Mature		B	Basal area	ERC:	Estimated Remaining Contribution	

Appendix 2: Tree Protection Notice

(To be printed at A3 or larger)

Tree Protection Area

KEEP OUT

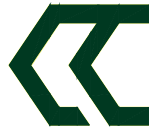
Do not move this fence

(TOWN & COUNTRY PLANNING ACT 1990)

TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS AND/OR ARE THE SUBJECT OF A TREE PRESERVATION ORDER.

CONTRAVENTION OF A TREE PRESERVATION ORDER MAY LEAD TO CRIMINAL PROSECUTION

ANY INCURSION INTO THE PROTECTED AREA MUST BE WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY




Arbtech Consulting Limited.
Unit 3, Well House Barrn, Chester Road, Chester, CH4 0DH
<https://arbtech.co.uk> - 01244 661170

Appendix 3: Contact Details

Name	Position	Company	Contact
	Client		
	Agent / Project Manager		
	Tree Officer		
	Project Arboriculturist	Arbtech Consulting Ltd.	01244 661170 https://arbtech.co.uk
	Site Manager		
	Main contractor		

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