TREE CONSULTANTS

ARBORICULTURAL METHOD STATEMENT

to BS 5837:2012 at

The Coach House,
Cranford Hall,
Doncaster Road,
Ardsley,
Barnsley,
South Yorkshire
S71 5EZ

This document describes how the trees will be protected and managed during the development of this site. It explains how and when the protection measures must be installed and maintained throughout the development.

A copy of this document report must be permanently available on site for the duration of all development activity and should be referenced for practical guidance on how to protect the retained trees at this site.

Prepared for:
White Agus Partnership
Office One,
34 Victoria Road,
Barnsley,
South Yorkshire
S70 2BU

Date: *October 2019*

Reference: *AWA2905*

Institute of Chartered Foresters
Registered Consultant

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1. Introduction

1.1 Instruction

1.1.1 We are instructed by Thomas Agus of White Agus Partnership to prepare an arboricultural method statement for the proposed development at:

- **The Coach House, Cranford Hall, Doncaster Road, Ardsley, Barnsley, South Yorkshire S71 5EZ**

1.2 Purpose

1.2.1 This method statement has been prepared in order to demonstrate that the development operations at this site can be undertaken with minimal risk of adverse impact on the trees to be retained.

1.2.2 This method statement conforms to BS 5837:2012 *Trees in relation to design, demolition and construction - Recommendations*. It is based on the arboricultural data, collected at a site visit during December 2018, detailed within Appendix 3 of this report.

1.3 Description of Development

1.3.1 It is proposed to replace the existing conservatory and garage with a new conservatory and garage within the same footprints. The proposed development layout has been provided by my client and is the basis for the Tree Protection Plan (TPP) at Appendix 4.

1.4 Details of Consent

1.4.1 Planning consent is subject to this method statement being agreed upon in advance by the Local Planning Authority. The contents of this report must be adhered to, before, during, and after the construction phase.

1.4.2 As such, no equipment, machinery or materials shall be brought onto the site in connection with the development until this arboricultural method statement detailing tree management and tree protection measures has been submitted to and approved by the Local Planning Authority.

2. Method Statement Timeline

2.1 Overview of Sequence of Operations

2.1.1 In overview, it is necessary to undertake the following sequence of operations in relation to arboricultural input for development operations.

1 Method Statement approved by the LPA

2 Undertake tree removals and pruning works

3 Install tree protection fencing and ground protection boards

4 Pre commencement meeting/ confirm fencing and boards are as specified

5 Construction of new development

6 Removal of tree protection fencing and ground protection boards

2.2 Specific Sequence of Operations

2.2.1 The following timeline table informs the key principles for development operations proceeding in relation to arboricultural requirements conditioned as part of this method statement.

2.2.2 The actions and timescales within this table must be adhered to in order to discharge the arboricultural method statement planning condition for this site.

2.2.3 The precise timing and order of some of the development operations may need to be changed due to site specific operational requirements, yet any operations that may affect the trees on the site must be done so under arboricultural supervision by a suitably qualified person appointed by the contractor.

Sequence of Operations		
Stages	***Action***	***Arboricultural Input***
1 Approval	This AMS is submitted to and approved in writing by the LPA.	If necessary, liaise with contractor and LPA to discuss methodologies detailed.
2 Tree Works	Tree removals and pruning works shall be carried out as the first operation on site, in accordance with Appendix 3 and as detailed in section 3.1.	Review the tree work requirements with the tree contractor. If necessary, liaise with the contractor on site during tree works.
3 Tree Protection	Installation of the tree protection fencing and ground protection boards will take place prior to any storage of plant, materials and machinery. As shown at Appendix 4.	If necessary, liaise with the contractor installing the tree protection fencing and ground protection boards until completed to the standard specified in this method statement.
4 Site Meeting	Following installation of tree protection measures, the LPA shall be invited to inspect the fencing, boards and tree works, and discuss any other site operations that have implications for trees.	Meeting with a representative of the LPA and the site manager. Alternatively, contractor can confirm the tree protection fencing, ground protection boards and tree works are as specified by taking photographs.
5 Construction	Undertake the construction of the new development.	If necessary, liaise with the local authority and the site foreman to ensure any issues are adequately resolved.
6 Site Finishing	Removal of tree protection fencing and ground protection boards must only be undertaken when all site traffic and machinery has left the site.	If acceptable to the LPA, the contractor can take photos of the site to give to the LPA to gain approval for the removal of tree protection fencing and ground protection boards.

3. Tree Management

3.1 Tree Works

3.1.1 The Horse Chestnut T2 requires removal regardless of development at the site.

3.1.2 Pruning works have also been recommended to trees T3, T5, T6 and T35 regardless of development at the site (as detailed in Appendix 3).

3.1.3 All tree work should be carried out according to British Standard 3998:2010 *Tree Work - Recommendations*.

3.1.4 When appointing a tree surgeon, only properly qualified and experienced companies should be used, who have adequate Public Liability and Employer's Liability Insurance.

4. Tree Protection

4.1 Tree Protection Fencing

4.1.1 The tree protection fencing for this site should be located as shown on the Tree Protection Plan (TPP) at Appendix 4 (as illustrated with a thick purple line).

4.1.2 The precise fencing location may need to be slightly adjusted on site due to local site conditions, but is not expected to differ from that shown on the TPP. The final fencing position must be agreed on by the LPA before the commencement of any site works.

4.1.3 The tree protection fencing details should be incorporated into relevant subsequent plans, method statements used for design purposes and construction drawings issued for use on site, to ensure that all interested parties are fully aware of the areas in which access and works may and may not take place.

4.1.4 The tree protection fencing will be appropriate to the degree and proximity of likely construction works. In this instance, the default BS 5837:2012 tree protection fencing is deemed disproportionate. It is suggested (if acceptable by the LPA) an adequate level of protection for the trees could be provided by 'Heras' type fencing, of welded mesh

panels on rubber or concrete feet (see Figures 1 and 2 at Appendix 1 for examples).

4.1.5 The fencing should be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence (see Figure 3 at Appendix 1 for an example). The fencing panels should be supported on the inner side by stabilizer struts, which should normally be attached to a base plate secured with ground pins or mounted on a block tray.

4.1.6 The area enclosed by the fencing is referred to as the Construction Exclusion Zone (CEZ); this area should be considered a restricted area. No pedestrians, vehicles, storage of materials, equipment or machinery should be allowed with the CEZ unless specified within this method statement. The site manager must ensure that all personnel are aware of the restrictions that apply to the fenced-off area.

4.1.7 Once the fencing is erected, waterproof warning signs labelled '*Tree Protection Area'* should be placed at 3m intervals to ensure that all personnel are aware of the restrictions that apply to the fenced-off area (see Figures 4 and 5 at Appendix 1 for example signs).

4.1.8 The tree protection fencing should be inspected for faults or damage by the site manager or other responsible named person on a regular basis and a written record kept. Any faults or defects should be repaired or replaced as soon as is reasonably practicable. The Tree Protection Fencing shall not be removed, breached or altered without prior written authorisation from the local planning authority and under arboricultural supervision by a suitable named responsible individual appointed by the site manager.

4.2 Ground Protection

4.2.1 The development work is within the exposed RPA of retained trees. As such, ground protection will be required within the RPA of the retained trees to avoid compaction of the soil which can arise from the single passage of a heavy vehicle, especially in wet conditions, so that tree root functions remain unimpaired.

4.2.2 Interlinked ground protection boards should be used (see Figure 6 at Appendix 1 for an example). They should be located as shown on the Tree Protection Plan (TPP) at Appendix 5 (as illustrated with a light blue hatched area).

4.2.3 The precise location of the boards may need to be slightly adjusted on site due to local site conditions, but is not expected to differ significantly from that shown on the TPP.

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

4.2.5 For pedestrian movements only, a single thickness of scaffold boards placed either on top of a driven scaffold frame, so as to form a suspended walkway, or on top of a compression-resistant layer (e.g. 100 mm depth of woodchip), laid onto a geotextile membrane.

4.2.6 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. 150 mm depth of woodchip), laid onto a geotextile membrane.

4.3 Drainage and Utilities

4.3.1 Drainage and utilities are to be directed away from the retained trees. Over-ground services should ideally be routed away from areas where they are likely to interfere with the crowns of mature trees. New underground services should be grouped together and routed away from RPAs. *NJUG 10: Guidelines for the Planning, Installation and Maintenance of Utility Services in Proximity to Trees* should be considered when installing services.

4.4 Additional Precautions

4.4.1 Allowance should be made for operations outside of the CEZ that could indirectly impact on trees. Including space for site huts, temporary toilet facilities (including their drainage) and other temporary structures; and space for storing (whether temporary or long-term) materials.

4.4.2 Care must be taken to prevent contamination with chemical spillages, including petrol, diesel and oils. Cement mixers and any other toxic materials should not be permitted within the RPA of the trees. Any materials whose accidental spillage would cause damage to a tree should be stored and handled well away from the outer edge of its RPA.

4.4.3 Fires on the site should be avoided if possible. Where they are unavoidable, and approved by the Local environmental health authority, they should not be lit in a position where heat could affect foliage or branches. The potential size of a fire and the wind direction should be considered when determining its location, and it should be attended always until safe enough to leave.

5.1 Post Construction Landscaping

5.2.1 Many of the trees on site may be subject to some form of landscaping or seeding beneath their canopies after the development phase. At this stage the protective fencing will have been removed and the property may be occupied.

5.2.2 Landscaping works should be carried out in such a way as to avoid ground level changes or deep digging. Tractor mounted rotovation or other mechanised cultivation methods must not be used.

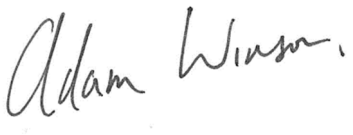
5.2.3 No heavy machinery should be brought into the vicinity of retained trees.

5.2.4 Herbicides should be appropriate for the purpose and should not be used in such a way as to damage any retained trees or vegetation.

5. Signature

I trust this report provides all the required information.

Signed



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Adam Winson
Chartered Arboriculturist, MSc, BSc (Hons), MICFor, AIEEM.

31st October 2019

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Appendix 1: Images and Figures

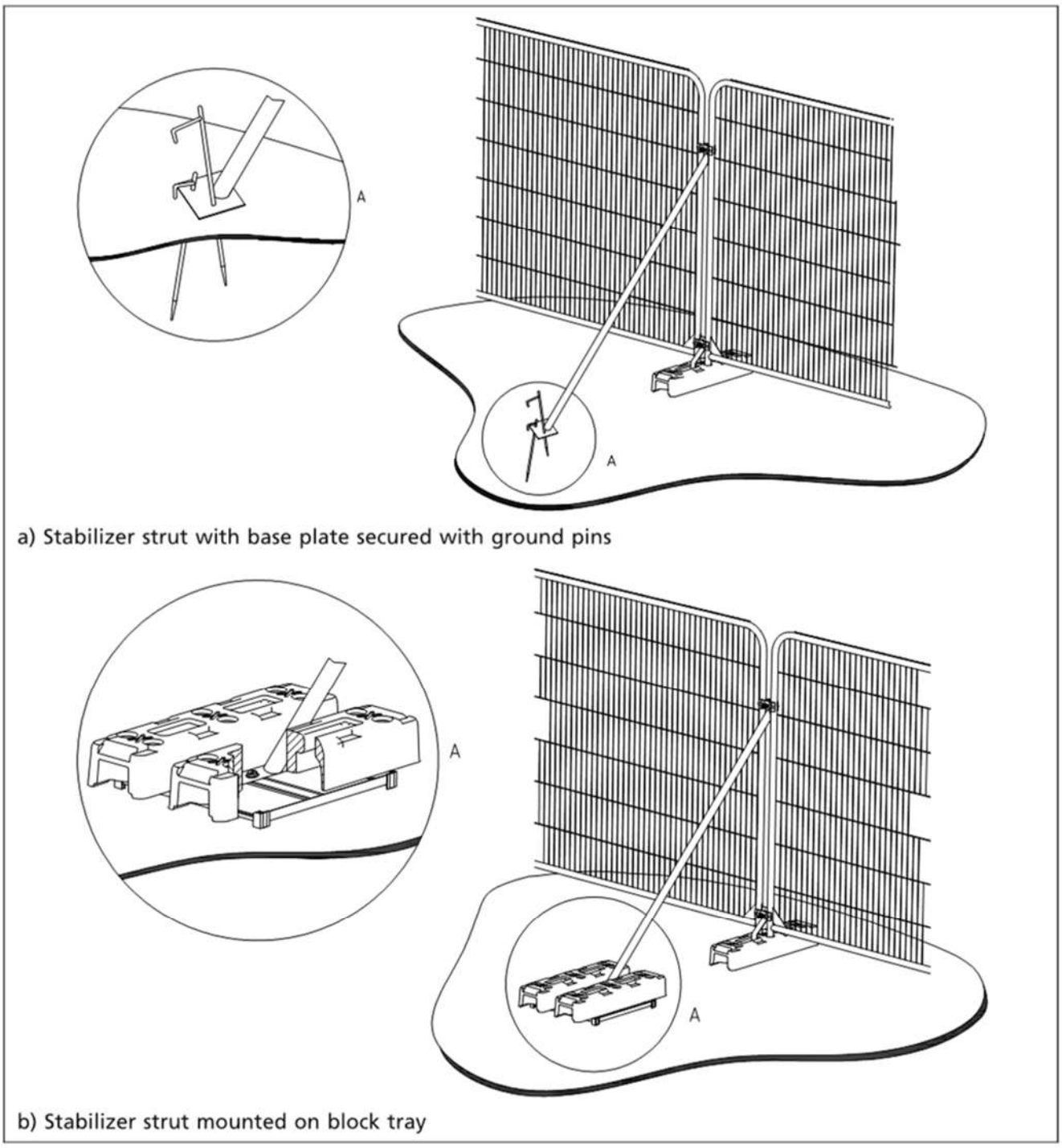


Figure 1: Secured 'Heras' type fencing with stabilizing system and fixed central pins (©BSI)



Figure 2: Secured 'Heras' type fencing with stabilizing system and anti-tamper couplers



Figure 3: Anti-tamper couplers to secure fencing and avoid unauthorised access



Figure 4: Warning sign for fencing



Figure 5: Example of A3 correx tree protection warning sign fixed to fencing panel



Figure 6: Inter-linked ground protection boards placed on top woodchip

Appendix 2: Relevant Contact Details

Contact Name	Organisation/ Details	Contact Number	Contact E-mail
Thomas Agus	White Agus Partnership	01226 208 482	thomas@whiteaguspartnership.co.uk
Adam Winson	AWA Tree Consultants Ltd Arboricultural Consultant	0114 272 1124	adam@awatrees.com
Edward Jowett	Barnsley Metropolitan Borough Council Tree Officer	01226 772 557	edwardjowett@barnsley.gov.uk

	Tree Species		Measurements					Crown (m)					Tree Condition							Value		Management
Tree ID	*Common Name*	*Latin Name*	*Maturity*	*Height (m)*	*Stems*	*Stem Dia (mm)*	*Estimated*	*Ave Height*	*N*	*E*	*S*	*W*	*Roots*	*Stem*	*Crown*	*Comments*	*Physiological*	*Structural*	*Life Expectancy*	*Amenity*	*Category*	*Works*
T1	Beech	*Fagus sylvatica* 'Purpurea'	Mature	19	1	1010	No	2	7.5	5	8	8.5	Exposed roots. Soil compaction, Lots of ground compaction to north from vehicles parking.	Bulging to main stem. Single stemmed. Vertical. Old pruning wounds	Occasional minor old pruning wounds in crown. Minor deadwood. Old pruning wounds	Numerous large old pruning wounds to stem with large stubs to northern and western side of main stem at 7m. Western stub is decayed. Extensive pruning may limit long term value.	Fair	Fair	>40 yrs	High	**A**	No works required
T2	Horse Chestnut	*Aesculus hippocastanum*	Mature	12	2	580, 610	No	2	6.5	7	9	4.5	Lots of soil compaction to north from car parking. Exposed roots. Soil compaction. Girdled roots	Twin stemmed at base. Tight union with partially included bark at junction of two main stems at base. Slight lean. Stubs. Large old pruning wounds. Bark damage. Major decay. Fungal brackets. Large snapped limbs from eastern stem.	Tree has been poorly 'topped' at 12m approx. 75% dead/ absent. Minor deadwood. Snapped/ hanging branches	Western stem has extensive decay with *Pleurotus ostreatus* and *Cerioporus squamosus* fungal fruiting bodies. Staining to main stems likely from bleeding canker of horse chestnut.	Poor	Poor	<10 yrs	Low	**U**	Remvoal required regardless of development
T3	Plane	*Platanus x hispanica*	Mature	24	1	1230	No	2	11	7	4.5	11	Exposed roots. Damage to buttress roots	Single stemmed. Vertical. Old pruning wounds. Minor cavities	Moderate deadwood	Large old pruning wound to eastern side of main stem at 1.5m. Large dead limb in southern crown at 4m. Occasional minor cavity in lower crown.	Fair	Fair	>40 yrs	High	**A**	Remove large dead limb in southern crown at 4m regardless of development

	Tree Species		Measurements					Crown (m)					Tree Condition							Value		Management
Tree ID	*Common Name*	*Latin Name*	*Maturity*	*Height (m)*	*Stems*	*Stem Dia (mm)*	*Estimated*	*Ave Height*	*N*	*E*	*S*	*W*	*Roots*	*Stem*	*Crown*	*Comments*	*Physiological*	*Structural*	*Life Expectancy*	*Amenity*	*Category*	*Works*
T4	Sycamore	*Acer pseudoplatanus*	Mature	22	1	470	No	15	3.5	2	2.5	5	Exposed roots. Damage to buttress roots, Damage to buttress roots likely from mowers.	Single stemmed. Vertical. Bark damage. Old pruning wounds	Minor deadwood. Birds' nest	Very high crown. Likely previously crown lifted. Occasional small pruning wounds to main stem.	Good	Fair	>40 yrs	Moderate	**B**	No works required
T5	Sycamore	*Acer pseudoplatanus*	Mature	20	1	420	No	5	1.5	2.5	3.5	3.5	No visual defects	Single stemmed. Twin stemmed at 3m. Slight lean. Stubs. Bark damage. Minor cavities. Moderate decay	25% dead/ absent. Moderate dieback. Minor deadwood	Western limb is decayed at base Lots of dieback in crown. Limited long term value.	Poor	Fair	10 to 20 yrs	Moderate	**C**	Remove decayed western limb regardless of development
T6	Ash	*Fraxinus excelsior*	Mature	25	1	900	No	3	5.5	9	9	5	Soil erosion. Exposed roots	Single stemmed. Slight lean. Stubs. Bark damage. Minor cavities	Moderate deadwood. Snapped/ hanging branches. *Inonontus hispidus bracket.*	Growing out of edge of pond, leaning east. Numerous large exposed roots. Moderate pieces of deadwood in crown. Large snapout in southern crown at 6m with *Inonotus hispidus* bracket.	Fair	Fair	20 to 40 yrs	Moderate	**B**	Recommended to remove significant deadwood from crown regardless of development
T7	Sycamore	*Acer pseudoplatanus*	Semi-mature	8	1	100	No	2	1	1	2.5	2	No visual defects	Single stemmed. Slight lean. Stubs	Old pruning wounds		Good	Good	10 to 20 yrs	Low	**C**	No works required

	Tree Species		Measurements					Crown (m)					Tree Condition							Value		Management
Tree ID	*Common Name*	*Latin Name*	*Maturity*	*Height (m)*	*Stems*	*Stem Dia (mm)*	*Estimated*	*Ave Height*	*N*	*E*	*S*	*W*	*Roots*	*Stem*	*Crown*	*Comments*	*Physiological*	*Structural*	*Life Expectancy*	*Amenity*	*Category*	*Works*
T8	Pine	*Pinus sylvestris*	Semi-mature	6	1	90	No	1.5	1.5	1.5	1	1	No visual defects	Single stemmed. Slight lean. Stubs	Minor deadwood		Fair	Good	10 to 20 yrs	Low	**C**	No works required
T9	Ash	*Fraxinus excelsior*	Semi-mature	10	1	90	No	1.5	2	1.5	1	1.5	No visual defects	Single stemmed. Slight lean	Normal	Stem kinks at 1m	Good	Fair	10 to 20 yrs	Low	**C**	No works required
T10	Magnolia	*Magnolia sp.*	Semi-mature	4	3	70, 60, 70	No	1	2	3	1.5	1.5	No visual defects	Multiple stemmed at base. Slight lean. Stubs. Tight unions	Old pruning wounds		Good	Good	20 to 40 yrs	Moderate	**C**	No works required
T11	Pear	*Pyrus sp.*	Mature	12	1	490	No	3	1.5	8.5	4.5	2	Exposed roots	Single stemmed. Twin stemmed at 1.5m. Significant lean. Bark damage. Moderate cavity. Moderate decay	Moderate dieback. 25% dead/ absent. Moderate deadwood	Significant lean east. Moderate cavity with moderate decay to western side of main stem at 1m. Moderate deadwood stub in central crown.	Fair	Fair	10 to 20 yrs	Moderate	**C**	No works required
T12	Sycamore	*Acer pseudoplatanus*	Mature	22	2	270, 480	No	3	6	3.5	2	7	No visual defects	Twin stemmed at base. Slight lean. Old pruning wounds. Bark damage	Minor deadwood	Growing against wall to east. Will affect wall in future.	Good	Fair	>40 yrs	Moderate	**B**	No works required

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	Tree Species		Measurements					Crown (m)					Tree Condition							Value		Management
Tree ID	*Common Name*	*Latin Name*	*Maturity*	*Height (m)*	*Stems*	*Stem Dia (mm)*	*Estimated*	*Ave Height*	*N*	*E*	*S*	*W*	*Roots*	*Stem*	*Crown*	*Comments*	*Physiological*	*Structural*	*Life Expectancy*	*Amenity*	*Category*	*Works*
T13	Sycamore	*Acer pseudoplatanus*	Mature	22	1	440	No	10	4.5	1	0.5	7.5	No visual defects	Single stemmed. Slight lean	Minor deadwood	Two co-dominant stems at 3.5m. May affect wall to east in future.	Good	Good	>40 yrs	Moderate	**B**	No works required
T14	Sycamore	*Acer pseudoplatanus*	Mature	23	1	530	No	12	1.5	5	3.5	4.5	No visual defects	Single stemmed. Vertical. Bark damage. Minor decay	Minor deadwood	Large bark wound at very base of main stem to south west, but occluding well and only minor decay. Tree will affect wall to east in future.	Good	Fair	>40 yrs	Moderate	**B**	No works required
T15	Sycamore	*Acer pseudoplatanus*	Mature	22	2	390, 220	No	7	0.5	4	6	3.5	Soil erosion. Exposed roots	Twin stemmed at 1m. Vertical. Old pruning wounds. Stubs. Moderate cavity. Moderate decay	Moderate dieback. Minor deadwood	Large decayed wound at base to west. Two main stems intertwine and rub at 2m. Bird box nailed to stem. Moderate dieback in crown. On banking.	Fair	Fair	10 to 20 yrs	Moderate	**C**	No works required
T16	Sycamore	*Acer pseudoplatanus*	Early-mature	20	3	330, 240, 280	No	5	0.5	1.5	7	3	Soil erosion. Exposed roots	Multiple stemmed at base. Slight lean. Old pruning wounds. Stubs. Bark damage. Major cavities. Moderate decay	Moderate dieback. Minor deadwood	Large cavities with moderate decay at base of main stems to east. Moderate dieback in crown. On banking.	Fair	Fair	10 to 20 yrs	Moderate	**C**	No works required

	Tree Species		Measurements					Crown (m)					Tree Condition							Value		Management
Tree ID	*Common Name*	*Latin Name*	*Maturity*	*Height (m)*	*Stems*	*Stem Dia (mm)*	*Estimated*	*Ave Height*	*N*	*E*	*S*	*W*	*Roots*	*Stem*	*Crown*	*Comments*	*Physiological*	*Structural*	*Life Expectancy*	*Amenity*	*Category*	*Works*
T17	Sycamore	*Acer pseudoplatanus*	Early-mature	14	1	270	No	5	7.5	0.5	0.5	3.5	Soil erosion. Exposed roots	Single stemmed. Significant lean. Old pruning wounds. Minor cavities. Minor decay	Minor deadwood	Significant lean north. Cavity with decay to south eastern side of main stem at base. Main stem intertwines with Pine to north at 3m and is causing damage to both trees. On banking. Southern small stem previosuly 'topped' at 1.5m.	Fair	Fair	10 to 20 yrs	Moderate	**C**	No works required
T18	Pine	*Pinus nigra*	Early-mature	19	1	380	No	15	1	1	4	3	Soil erosion. Exposed roots	Single stemmed. Slight lean. Stubs. Old pruning wounds. Bark damage	Major dieback. Moderate deadwood	Main stem intertwines with neighbouring Sycamore at 3m and is damaging both trees. Main limb kinks to west at 10m. Crown has extensive deadwood and dieback. On top of banking.	Poor	Fair	<10 yrs	Moderate	**C**	No works required
T19	Sycamore	*Acer pseudoplatanus*	Early-mature	12	1	230	No	6	0.5	2	5	2	Soil erosion. Exposed roots	Single stemmed. Slight lean. Stubs. Old pruning wounds. Bark damage. Minor decay	Minor deadwood. Minor dieback	On banking	Fair	Fair	10 to 20 yrs	Low	**C**	No works required

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T20	Pine	*Pinus nigra*	Mature	22	1	710	No	14	4	2	4	2.5	Soil erosion. Exposed roots	Single stemmed. Twin stemmed at 1.5m. Slight lean. Old pruning wounds. Stubs	Minor deadwood	Tight union at junction of two main stems at 1.5m. Numerous old pruning stubs stubs to southern side of stem.	Good	Good	>40 yrs	Moderate	**B**	No works required
T21	Sycamore	*Acer pseudoplatanus*	Mature	20	1	520	No	7	1	2.5	7	3.5	Soil erosion. Exposed roots	Single stemmed. Twin stemmed at 2m. Significant lean. Bark damage. Minor cavities. Minor decay	Minor deadwood	Growing out of banking, leaning south. Minor cavity with decay to south western side of stem at base. Two co-dominant stems at 2m.	Fair	Fair	20 to 40 yrs	Moderate	**C**	No works required
T22	Sycamore	*Acer pseudoplatanus*	Early-mature	18	1	300	No	9	2	2.5	1	2	Soil erosion	Single stemmed. Slight lean. Stubs. Old pruning wounds. Epicormic growths. Bark damage. Major cavity. Major decay	Minor deadwood	Large long decayed cavity on western side of main stem from base to 2m. Cherry stump to north.	Fair	Poor	<10 yrs	Low	**C**	No works required
T23	Sycamore	*Acer pseudoplatanus*	Mature	20	1	510	No	5	2	5	6	1	Soil erosion. Exposed roots	Single stemmed. Slight lean. Epicormic growths. Old pruning wounds. Minor cavity	Minor deadwood	On banking. Occasional old pruning wound to main stem.	Good	Good	>40 yrs	Moderate	**B**	No works required
T24	Beech	*Fagus sylvatica*	Mature	20	1	630	No	4	1	7	8	2.5	Soil erosion. Exposed roots	Single stemmed. Slight lean. Old pruning wounds. Minor cavities	Minor deadwood. Old pruning wounds	Minor old pruning wounds in crown from crown lifting. Slight lean south east.	Good	Good	>40 yrs	Moderate	**B**	No works required

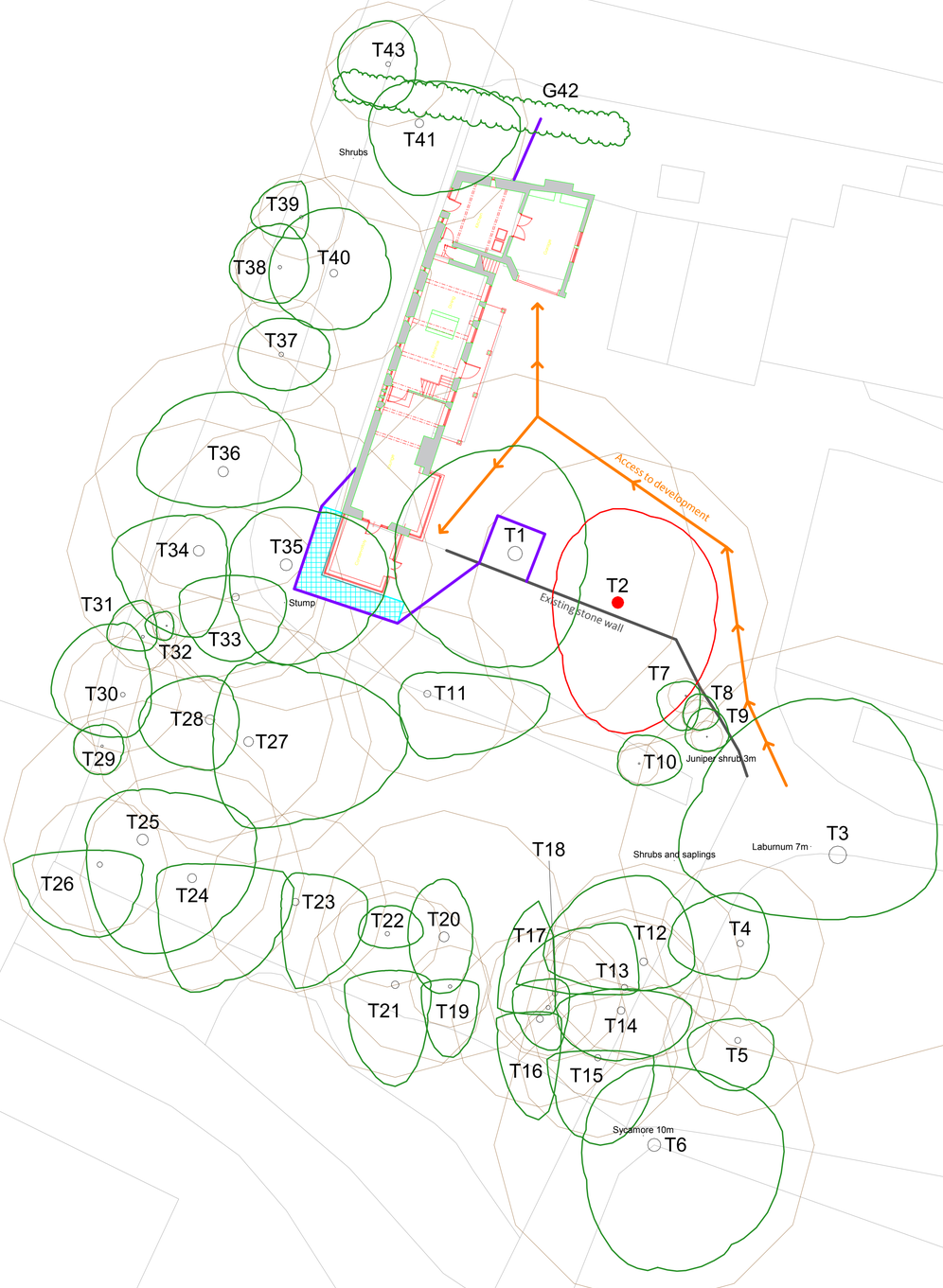
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Tree ID	*Common Name*	*Latin Name*	*Maturity*	*Height (m)*	*Stems*	*Stem Dia (mm)*	*Estimated*	*Ave Height*	*N*	*E*	*S*	*W*	*Roots*	*Stem*	*Crown*	*Comments*	*Physiological*	*Structural*	*Life Expectancy*	*Amenity*	*Category*	*Works*
T25	Sycamore	*Acer pseudoplatanus*	Mature	22	1	780	No	4	3.5	8	8	4	No visual defects	Single stemmed. Vertical. Epicormic growths. Bark damage. Stubs	Old pruning wounds. Minor deadwood	Decayed small stub on southern side of main stem at 3.5m. Large southern limb at 4m has rope swing wrapped around it at its base which is beginning to cut into cambium.	Good	Fair	>40 yrs	Moderate	**A**	Remove rope swing from limb regardless of development
T26	Sycamore	*Acer pseudoplatanus*	Early-mature	12	1	380	No	3	1	3	5	6	Soil erosion. Exposed roots	Single stemmed. Slight lean. Epicormic growths	Minor deadwood	Leaning south. Growing out of banking.	Good	Fair	20 to 40 yrs	Moderate	**B**	No works required
T27	Beech	*Fagus sylvatica*	Mature	23	1	690	No	9	5.5	11	6	2.5	No visual defects	Single stemmed. Slight lean. Old pruning wounds. Stubs	Old pruning wounds. Minor deadwood	Slight lean east. Steps at base to west. Occasional recent moderate pruning wound to main stem. Minor cavity in old pruning wound to south eastern side of stem at 4m. Moderate stub on southern side of stem.	Good	Good	>40 yrs	Moderate	**B**	No works required
T28	Sycamore	*Acer pseudoplatanus*	Mature	20	1	690	No	4	3	2	3.5	5	No visual defects	Single stemmed. Slight lean. Stubs. Old pruning wounds. Epicormic growths	Minor deadwood	Steps at base to east	Good	Good	>40 yrs	Moderate	**B**	No works required

	Tree Species		Measurements					Crown (m)					Tree Condition							Value		Management
Tree ID	*Common Name*	*Latin Name*	*Maturity*	*Height (m)*	*Stems*	*Stem Dia (mm)*	*Estimated*	*Ave Height*	*N*	*E*	*S*	*W*	*Roots*	*Stem*	*Crown*	*Comments*	*Physiological*	*Structural*	*Life Expectancy*	*Amenity*	*Category*	*Works*
T29	Sycamore	*Acer pseudoplatanus*	Semi-mature	8	3	110, 90, 70	No	3	1.5	1.5	2	2	No visual defects	Multiple stemmed at base. Slight lean. Old pruning wounds	Normal		Good	Good	10 to 20 yrs	Low	**C**	No works required
T30	Hawthorn	*Crataegus monogyna*	Mature	8	2	200, 260	No	1.5	5	2	3	5	Exposed roots	Twin stemmed at 1m. Slight lean. Stubs. Old pruning wounds. Bark damage. Tight unions. Minor cavities. Minor decay	Minor deadwood	Some screening value	Fair	Fair	>40 yrs	Moderate	**C**	No works required
T31	Hawthorn	*Crataegus monogyna*	Early-mature	7	2	150, 120	No	2	2.5	1	1	2.5	No visual defects	Twin stemmed at base. Slight lean. Epicormic growths. Stubs. Old pruning wounds. Bark damage. Tight unions. Minor cavities. Minor decay	Minor deadwood	Some screening value	Fair	Fair	10 to 20 yrs	Low	**C**	No works required
T32	Horse Chestnut	*Aesculus hippocastanum*	Semi-mature	7	1	80	No	2	1	0.5	1	1.5	No visual defects	Single stemmed. Vertical. Old pruning wounds. Stubs	Normal		Fair	Good	10 to 20 yrs	Low	**C**	No works required
T33	Lime	*Tilia x europaea*	Mature	18	1	510	No	4	1.5	3.5	4.5	4	No visual defects	Single stemmed. Vertical. Epicormic growths. Old pruning wounds. Minor cavities	Minor deadwood	Occasional minor cavities in old pruning wounds	Good	Good	>40 yrs	Moderate	**B**	No works required

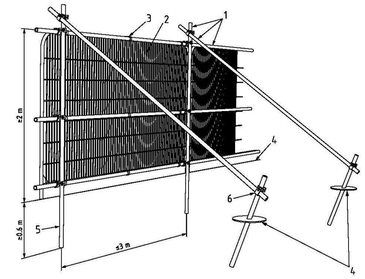
	Tree Species		Measurements					Crown (m)					Tree Condition							Value		Management
Tree ID	*Common Name*	*Latin Name*	*Maturity*	*Height (m)*	*Stems*	*Stem Dia (mm)*	*Estimated*	*Ave Height*	*N*	*E*	*S*	*W*	*Roots*	*Stem*	*Crown*	*Comments*	*Physiological*	*Structural*	*Life Expectancy*	*Amenity*	*Category*	*Works*
T34	Lime	*Tilia sp.*	Mature	22	1	740	No	1.5	2.5	2	6	6	Girdled roots	Single stemmed. Vertical. Old pruning wounds. Stubs	Minor deadwood	Western stem previosuly 'topped' at 2m	Good	Good	>40 yrs	Moderate	**B**	No works required
T35	Sycamore	*Acer pseudoplatanus*	Mature	22	1	820	No	10	4	7	7	4	No visual defects	Single stemmed. Vertical. Bark damage. Stubs	Minor deadwood	Moderate split stub in eastern crown over conservatory needs removing regardless of development.	Good	Fair	>40 yrs	Moderate	**B**	Remove split stub over conservatory regardless of development
T36	Sycamore	*Acer pseudoplatanus*	Mature	22	1	720	No	5	5.5	5.5	2.5	6	No visual defects	Single stemmed. Twin stemmed at 3m. Vertical. Old pruning wounds. Stubs. Minor decay. Minor cavities	Minor deadwood	Minor cavities and decay in occasional old pruning wounds. Two co-dominant stems at 3m.	Good	Good	>40 yrs	Moderate	**B**	No works required
T37	Pine	*Pinus sylvestris*	Early-mature	14	1	330	No	3	2.5	3.5	2.5	3	No visual defects	Single stemmed. Vertical. Stubs	Minor deadwood		Good	Good	>40 yrs	Moderate	**B**	No works required
T38	Hawthorn	*Crataegus monogyna*	Early-mature	7	1	250	No	1.5	3	2	2.5	3.5	No visual defects	Single stemmed. Slight lean. Epicormic growths. Old pruning wounds. Stubs. Bark damage. Partially included bark. Minor cavities. Minor decay	Minor deadwood	Some screening value. Stem measurement estimated.	Fair	Fair	20 to 40 yrs	Moderate	**C**	No works required

	Tree Species		Measurements					Crown (m)					Tree Condition							Value		Management
Tree ID	*Common Name*	*Latin Name*	*Maturity*	*Height (m)*	*Stems*	*Stem Dia (mm)*	*Estimated*	*Ave Height*	*N*	*E*	*S*	*W*	*Roots*	*Stem*	*Crown*	*Comments*	*Physiological*	*Structural*	*Life Expectancy*	*Amenity*	*Category*	*Works*
T39	Hawthorn	*Crataegus monogyna*	Early-mature	7	2	210, 120	No	1.5	2.5	0.5	1.5	3.5	Exposed roots	Twin stemmed at 1m. Slight lean. Epicormic growths. Old pruning wounds. Stubs. Bark damage. Tight unions. Minor cavities. Minor decay	Minor deadwood	Some screening value	Fair	Fair	10 to 20 yrs	Moderate	**C**	No works required
T40	Sycamore	*Acer pseudoplatanus*	Mature	20	1	550	No	5	4.5	4	4	4.5	No visual defects	Single stemmed. Vertical. Old pruning wounds. Stubs. Bark damage	Minor deadwood	Washing line wrapped arpund main stem needs removing	Good	Good	>40 yrs	Moderate	**B**	Remove washing line from main stem regardless of development
T41	Sycamore	*Acer pseudoplatanus*	Mature	20	1	610	No	5	3	7	5	3.5	No visual defects	Single stemmed. Vertical. Old pruning wounds. Stubs. Bark damage	Minor deadwood	Nail in stem	Good	Good	>40 yrs	Moderate	**B**	No works required
G42	Cypress	*Cupressus sp.*	Semi-mature	4	10+	50	Yes	1.5	See plan				No visual defects	Single and Multiple stemmed. Tight unions	Minor deadwood	Adjacent unmanaged. Cypress hedge. Some screening value.	Fair	Good	20 to 40 yrs	Moderate	**C**	No works required
T43	Sycamore	*Acer pseudoplatanus*	Early-mature	14	1	350	Yes	2	3	2	3	3.5	Limited access around base	Single stemmed. Vertical	Minor deadwood	Adjacent, no access	Fair	Fair	20 to 40 yrs	Moderate	**B**	No works required

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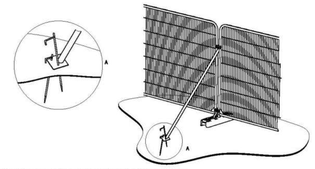


Inset 1: Examples of tree protection fencing

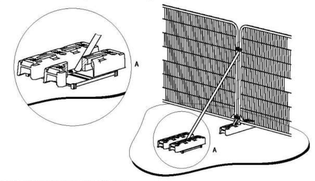


Key

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



a) Stabilizer strut with base plate secured with ground pins



b) Stabilizer strut mounted on block tray

Inset 2: Example warning sign for fencing



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



TREE PROTECTION AREA
KEEP OUT !
(TOWN & COUNTRY PLANNING ACT 1990)
TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS AND/OR ARE THE SUBJECTS 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

NORTH

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Appendix 4:
Tree Protection Plan

The Coach House, Cranford Hall, Doncaster Road, Ardsley
Ref: AWA1284

BRITISH STANDARD 5837:2012

SCALE: 1:200 PAPER: A1

	TREES TO BE RETAINED
	TREES FOR REMOVAL
	TREE STEM
	TREE STEM TO REMOVE
	RPA: ROOT PROTECTION AREA
	TREE PROTECTION FENCING
	INTERLINKED GROUND PROTECTION BOARDS