



ARBORICULTURAL METHOD STATEMENT

to BS 5837:2012 at

Land at
Shepherd Lane,
Thurnscoe,
Barnsley
South Yorkshire
S63 0JS

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:
Castle Owen Construction & Property
1 Hussar Court,
Hillsborough Barracks,
Sheffield
S6 2GZ

Date: *May 2019*

Reference: *AWA2684/AMS*



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1. Introduction

1.1 Instruction

1.1.1 We are instructed by John McSeveney of Castle Owen Construction & Property to prepare an arboricultural method statement for the proposed development at:

- **Shepherd Lane, Thurnscoe, Barnsley, South Yorkshire S63 0JS**

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 May 2019, detailed within Appendix 3 of this report.

1.3 Description of Development

1.3.1 It is proposed to build a new residential dwelling with detached garage, associated access, landscaping and facilities.

1.3.2 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 removal of T3, T4 and T5.
- 3 Install tree protection measures.
- 4 Pre commencement confirmation that fencing is as specified.
- 5 Construction of new development.
- 6 Removal of tree protection.

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 by the LPA.	If necessary, liaise with contractor and LPA to discuss methodologies detailed.
2 Tree Works	Tree removals 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	Installing the tree protective measures 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 protective fencing until completed to the standard specified in this method statement.
4 Site Meeting	Following installation of tree protective measures, the LPA shall be invited to inspect the fencing, and discuss any other site operations that have implications for trees.	The contractor can confirm the fencing and tree works are as specified by taking photographs of the tree protection measures.
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 protective measures 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 protective fencing.

3. Tree Management

3.1 Tree Works

- 3.1.1 The development will require the removal of 3 small low value trees (T3, T4 and T5).
- 3.1.2 The trees requiring removal are highlighted in red on the plan at Appendix 4 and as detailed in the tree data schedule at 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 protective 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 protective 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 protective 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.

- 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. 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 (see Appendix 1 for an example).
- 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 within 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 Appendix 1 for an example sign).
- 4.1.8 The protective 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 Drainage and Utilities

- 4.2.2 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.
- 4.2.3 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.

4.3 Additional Precautions

- 4.3.2 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.
- 4.3.3 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.
- 4.3.4 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. Signature

I trust this report provides all the required information.

Signed



Adam Winson

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

23rd May 2019

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Appendix 1: Images and Figures

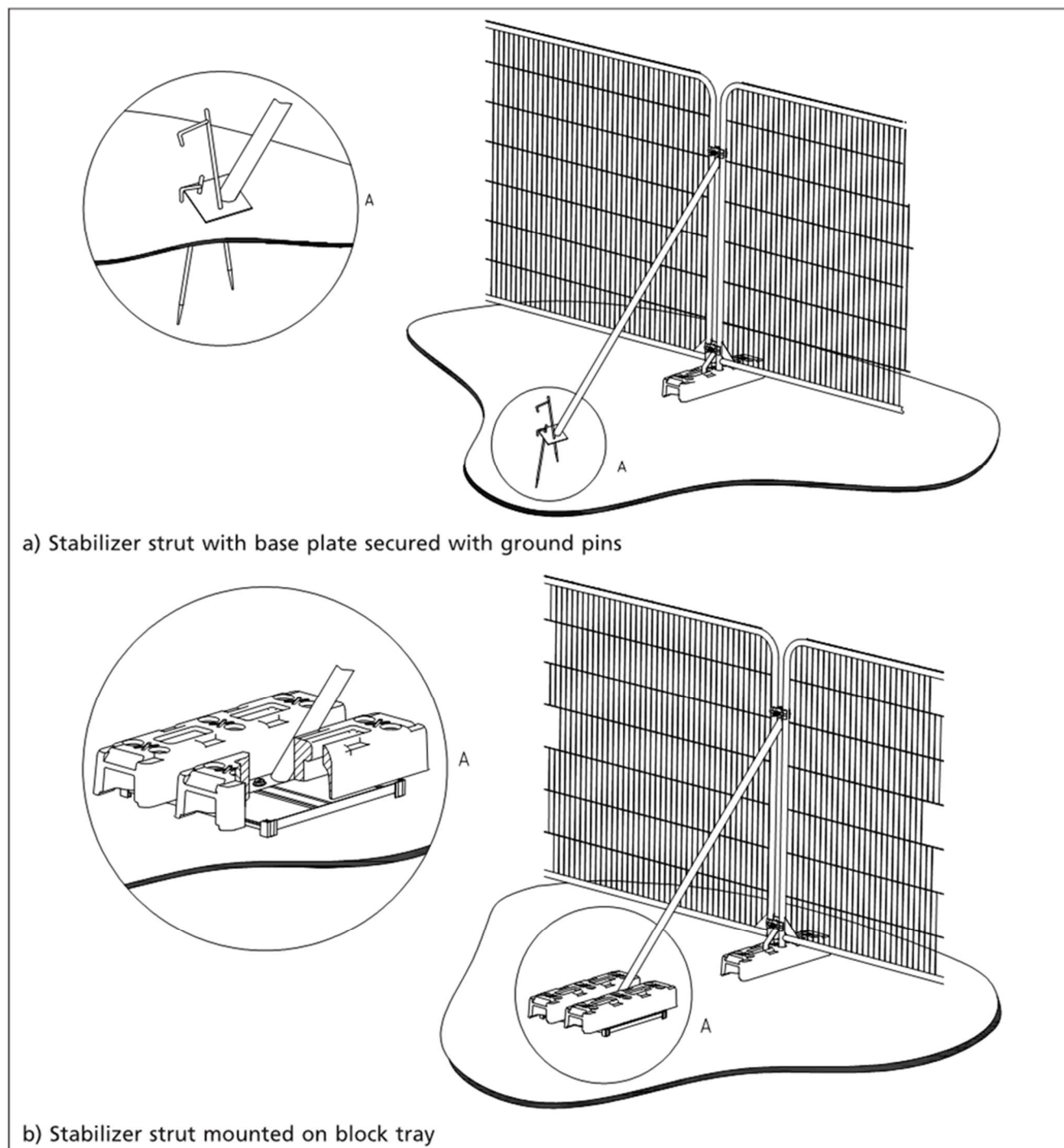


Figure 1: Secured 'Heras' type fencing with stabilizing system and fixed central pins (©BSI)



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



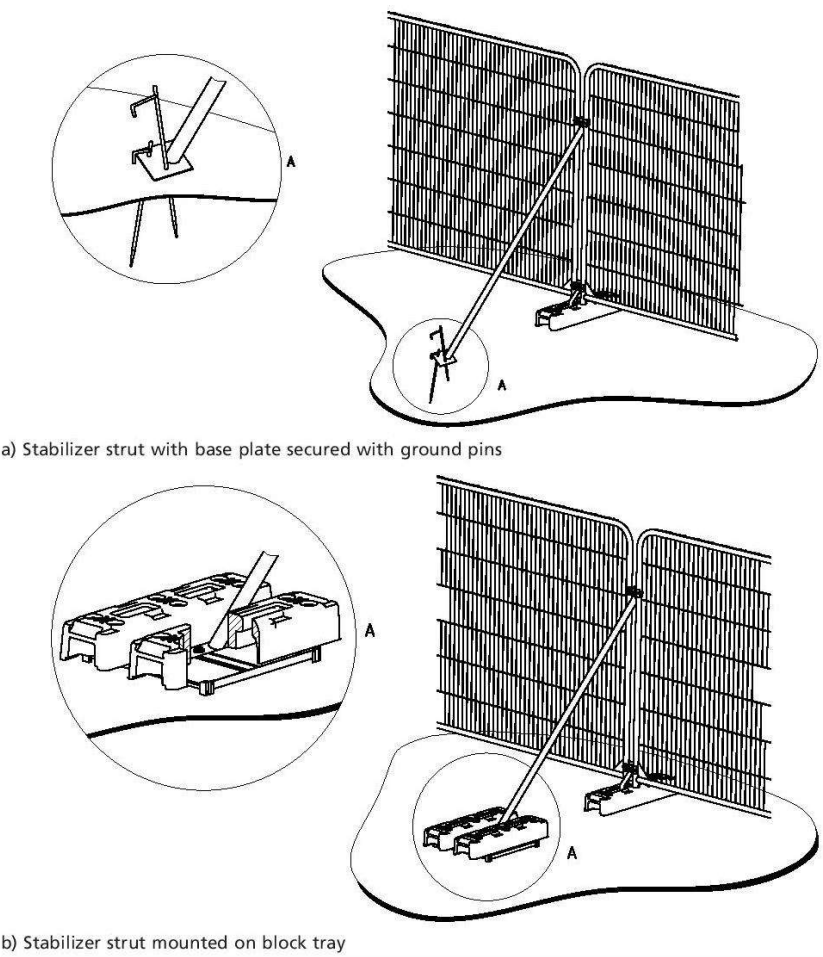
Figure 5: Example of A3 Correx Tree Protection Warning Sign fixed to fencing panel

Appendix 2: Relevant Contact Details

Contact Name	Organisation/Details	Contact Number	Contact E-mail
Edward Jowett	Tree Officer Barnsley Council	01226 772557	EdwardJowett@barnsley.gov.uk
Adam Winson	AWA Tree Consultants Ltd. Arboricultural Consultant	0114 272 1124	adam@awatrees.com
John McSeveney	Castle Owen Construction & Property Consultants Ltd	0114 233 1126	j.mcseveney@castleowen.com

Tree ID	Tree Species		Measurements					Crown (m)					Tree Condition						Value		Management
	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Dia (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Physiological	Structural	Life Expectancy	Amenity	Category	Works
T1	Horse Chestnut	<i>Aesculus hippocastanum</i>	Mature	17	1	740	No	3.5	1.5	6.5	6.5	7.5	No visual defects	Single stemmed, Twin stemmed at 3.5m, Vertical, Epicormic growths, Stubs, Bark damage	Unbalanced, Minor dieback, Minor deadwood, Old pruning wounds	Fair	Good	>40 yrs	High	B	No works required.
T2	Lime	<i>Tilia platyphyllos</i>	Mature	18	1	730	No	4	3	8.5	5	9	No visual defects, Limited visibility around base	Single stemmed, Twin stemmed at 3m, Vertical, Stubs, Epicormic growths, Old pruning wounds	Minor dieback, Moderate deadwood	Fair	Fair	>40 yrs	High	B	No works required.
T3	Ash	<i>Fraxinus excelsior</i>	Semi-mature	4	1	160	No	1.5	3	2.5	2.5	1.5	Increase in soil level	Single stemmed, Vertical, Bark damage, Stubs, Old pruning wounds	Normal, Minor deadwood, Minor dieback	Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development.
T4	Ash	<i>Fraxinus excelsior</i>	Semi-mature	4.5	1	170	No	1.5	2	2	2	2	No visual defects	Single stemmed, Stubs, Old pruning wounds	Old pruning wounds, Minor deadwood	Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development.
T5	Ash	<i>Fraxinus excelsior</i>	Semi-mature	4.5	1	210	No	1.5	2.5	2.5	2.5	2.5	Exposed roots, Mower damage	Single stemmed, Slight lean, Stubs, Old pruning wounds	Old pruning wounds, Minor deadwood, Minor dieback	Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development.

Inset 1: Examples of Tree Protection Fencing



Inset 2: Tree Protection Fencing Sign

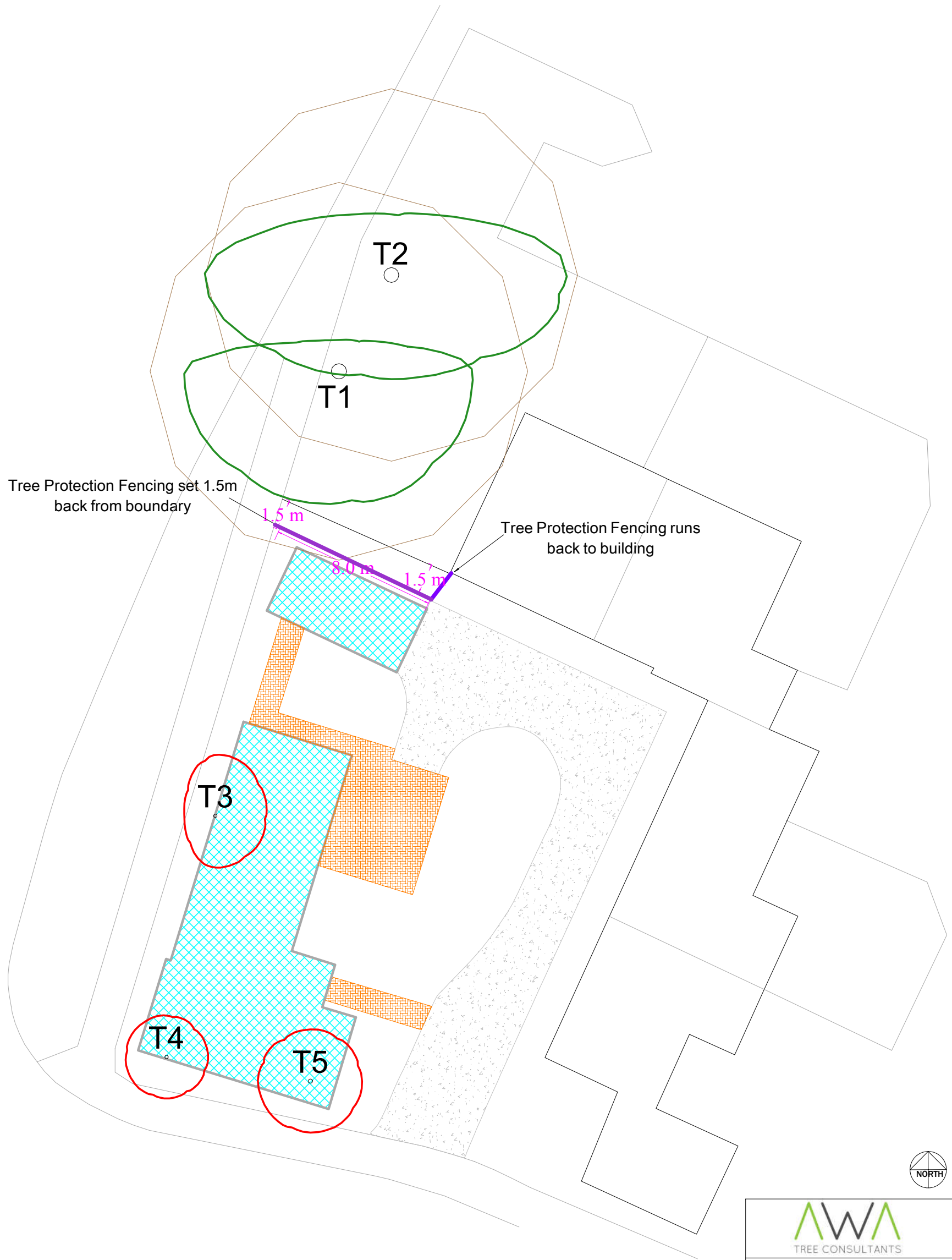


Inset 3: Tree Works Data

Tree Species			Measurements				Crown (m)							Value		Management		
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Dia (mm)	Estimated	Ave Height	N	E	S	W	Physiological	Structural	Life Expectancy	Amount	Category	Works
T1	Horse Chestnut	<i>Aesculus hippocastanum</i>	Mature	17	1	740	No	3.5	1.5	6.5	6.5	7.5	Fair	Good	>40 yrs	High	B	No works required.
T2	Lime	<i>Tilia platyphyllos</i>	Mature	18	1	730	No	4	3	8.5	5	9	Fair	Fair	>40 yrs	High	B	No works required.
T3	Ash	<i>Fraxinus excelsior</i>	Semi-mature	4	1	160	No	1.5	3	2.5	2.5	1.5	Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development.
T4	Ash	<i>Fraxinus excelsior</i>	Semi-mature	4.5	1	170	No	1.5	2	2	2	2	Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development.
T5	Ash	<i>Fraxinus excelsior</i>	Semi-mature	4.5	1	210	No	1.5	2.5	2.5	2.5	2.5	Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development.

Inset 4: Sequence of Operations

Sequence of Operations		
Stages	Action	Arboricultural Input
1 Approval	This AMS is submitted to and approved by the LPA.	If necessary, liaise with contractor and LPA to discuss methodologies detailed.
2 Tree Works	Tree removals of T3, T4 and T5, 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.
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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 protective measures 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 protective fencing.



Appendix 4:
TREE PROTECTION PLAN
Sheperd Lane, Thurnscoe
Ref: AWA2684/AMS
BRITISH STANDARD 5837:2012
SCALE: 1:200 PAPER: A2

	TREES TO BE RETAINED
	TREES FOR REMOVAL
	SHRUBS TO BE RETAINED
	TREE STEM
	TREE PROTECTION FENCING
	RPA: ROOT PROTECTION AREA