



ARBORICULTURAL IMPACT ASSESSMENT & METHOD STATEMENT

to **BS 5837:2012** at:

***Low Mill Farm,
Fall Head Lane,
Silkstone,
Barnsley
S75 4LB***

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.

Date: *April 2023*

Reference: AWA5378



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1. Introduction

1.1 Instruction

- 1.1.1 We were instructed by Robert Taylor to prepare an arboricultural impact assessment and arboricultural method statement for the proposed development at: Low Mill Farm, Fall Head Lane, Silkstone, Barnsley S75 4LB

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 March 2023 detailed within Appendix 3 of this report.

1.3 Description of Development

- 1.3.1 It is proposed to replace the existing barn at the site with a new dwelling, with associated landscaping.
- 1.3.2 The proposed development layout has been provided by my client and is the basis for the Tree Protection Plan at Appendix 5.

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.

1.5 Legal

- 1.5.1 The following advice is for guidance purposes only. Some trees are protected by legislation, and it is essential that the legal status of trees is established prior to carrying out works to them. Unauthorised work to protected trees could lead to prosecution, resulting in enforcement action such as fines or a criminal record. Tree Preservation Orders, Conservation Areas, Planning Conditions, Felling Licences or Restrictive Covenants legally protect many trees in the UK.
- 1.5.2 An online search was undertaken with Barnsley Metropolitan Borough Council on the 3rd of April 2023 to check whether any of the surveyed trees at the site are protected by a Tree Preservation Order or are located within a Conservation Area. As of this date no trees at the site are protected by a Tree Preservation Order or are within a Conservation Area.
- 1.5.3 Due to the large potential penalties for illegally carrying out work to protected trees, before authorising any tree works a further check should be made with the Local Planning Authority to confirm if any trees are covered by a Tree Preservation Order or are within a Conservation Area. If either applies, then statutory permission is required before any works can take place (unless such work is approved as part of full planning permission).
- 1.5.4 Trees provide a wide range of habitats for many species, some of which are legally protected such as bats, nesting birds, badgers and dormice. It is essential that appropriate care is taken to ensure that this legislation is not contravened.

2. Arboricultural Impact Assessment

2.1 Direct Impacts

- 2.1.1 From assessing the new development proposals, 2 trees will require removal to facilitate the development as they are situated in the footprint of the development or their retention and protection throughout the development is not suitable.
- 2.1.2 The trees that require removal to facilitate the development are Elders T13 and T17. T13 and T17 are of very low value and their removal will have little negative impact.
- 2.1.3 Alders T14 and T15 and Elder T18 require removal regardless of development at the site. T14 is dead, T15 has failed, and T18 is growing up against and in contact with the existing barn at the site.

2.2 Indirect Impacts

- 2.2.1 The tree Root Protection Area (RPA) detailed on the Tree Constraints Plan at Appendix 4 and the Tree Protection Plan at Appendix 5, has been used as a layout design tool, to inform on the area around a tree where the protection of the roots and soil structure is treated as a priority.
- 2.2.2 The proposed new parking is situated within the detailed RPA of retained Alder T10, however, T10 is situated on the opposite side of the beck and the detailed RPA for the tree is likely to be an exaggerated representation of the tree's actual rooting area. As such, it is unlikely that significant roots will be within the area of the proposed new parking and T10 should remain largely unaffected by the works.
- 2.2.3 The proposed new driveway encroaches into the RPA of retained Alder T11, however, the encroachment into the RPA is minor and the retained tree should remain largely unaffected by the works provided care is taken during construction.
- 2.2.4 Construction access will pass through the RPAs of retained Ash T5 and Alder T11, however the access will be along an existing compacted access track within the RPAs of the trees, so there should be little negative impact on the trees.

2.3 Photographs



Photo 1: G1 from south west



Photo 2: T2 and T3 from north east



Photo 3: G4 from north east



Photo 4: T5 from north east



Photo 5: G6 and G7 from west



Photo 6: T8 from west



Photo 7: T9 from west



Photo 8: T10 from west



Photo 9: T11 from south east



Photo 10: T12 from east



Photo 11: T13 and T14 from east



Photo 12: T15 and T16 from south east



Photo 13: T17 and T18 from north west



Photo 14: T19 from west



Photo 15: G20 from south west

3. Method Statement Timeline

3.1 Overview of Sequence of Operations

3.1.1 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
- 3 Install tree protection fencing
- 4 Pre commencement meeting/ confirm fencing is as specified
- 5 Construct new development
- 6 Remove tree protection fencing

3.2 Specific Sequence of Operations

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

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

3.2.3 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 Appendices 3 and 5 and as detailed in section 4.	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 will take place as shown at Appendix 5, prior to any storage of plant, materials and machinery.	If necessary, liaise with the contractor installing the tree protection fencing until completed to the standard specified in this method statement.
4 Site Meeting	Following installation of the tree protection fencing, the LPA shall be invited to inspect the fencing 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 fencing 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 must only be undertaken when all site traffic and machinery has left the site.	If acceptable to the LPA, the contractor can take photographs of the site to give to the LPA to gain approval for the removal of the tree protection fencing.

4. Tree Management

4.1 Tree Works

- 4.1.1 The trees requiring removal are T13, T14, T15, T17 and T18.
- 4.1.2 These trees requiring removal have been identified in red on the Tree Protection Plan at Appendix 5.
- 4.1.3 All tree work should be carried out according to British Standard 3998:2010 Tree Work - Recommendations.
- 4.1.4 When appointing a tree surgeon, only properly qualified and experienced companies should be used, who have adequate Public Liability and Employer's Liability Insurance.

5. Tree Protection

5.1 Tree Protection Fencing

- 5.1.1 The tree protection fencing for this site should be located as shown on the Tree Protection Plan at Appendix 5 (as illustrated with a thick purple line).
- 5.1.2 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 Tree Protection Plan. The final fencing position must be agreed on by the LPA before the commencement of any site works.
- 5.1.3 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.
- 5.1.4 The tree protection fencing will be appropriate to the degree and proximity of likely construction works.
- 5.1.5 In this instance, the default BS 5837:2012 tree protection fencing is deemed disproportionate and 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 at 2 at Appendix 1 for examples).

- 5.1.6 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 (see Figures 1 and 2 at Appendix 1 for examples).
- 5.1.7 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 in this method statement. The site manager must ensure that all personnel are aware of the restrictions that apply to the fenced-off area.
- 5.1.8 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).
- 5.1.9 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.

5.2 Drainage and Utilities

- 5.2.1 New drainage and underground utilities are to be positioned outside of the RPAs of retained trees, and above ground utilities will be routed away from areas where they are likely to interfere with the retained trees' crowns.
- 5.2.2 NJUG 10: Guidelines for the Planning, Installation and Maintenance of Utility Services in Proximity to Trees should be considered when installing services.

5.3 Additional Precautions

- 5.3.1 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.
- 5.3.2 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.
- 5.3.3 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.

5.4 Post Construction Landscaping

- 5.4.1 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.
- 5.4.2 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.
- 5.4.3 No heavy machinery should be brought into the vicinity of retained trees. Herbicides should be appropriate for the purpose and should not be used in such a way as to damage any retained trees or vegetation.

6. Signature

I trust this report provides all the required information.

Signed



.....

Adam Winson

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

3rd April 2023

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Appendix 1: Images and Figures

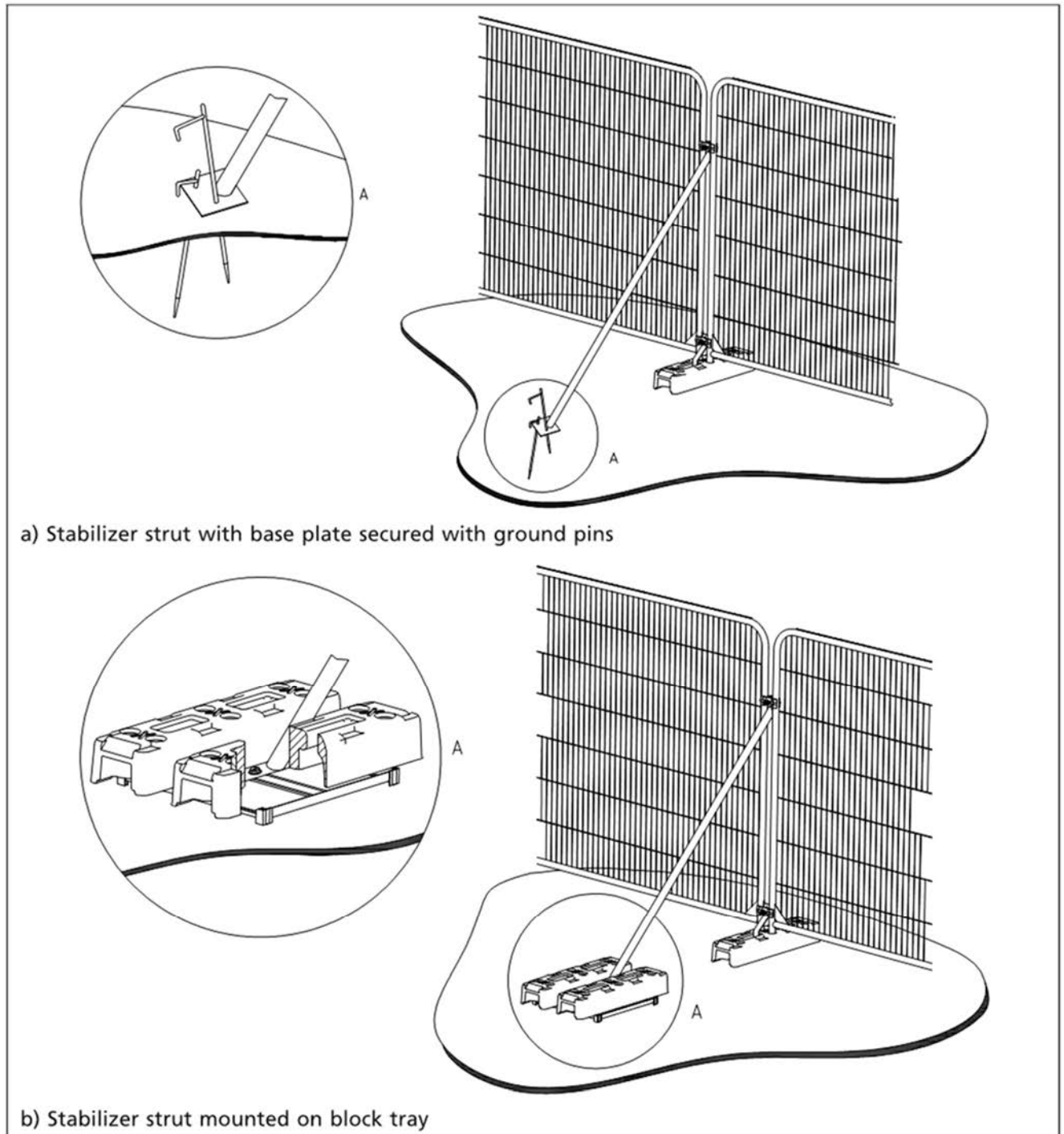


Figure 1: Secured 'Heras' type fencing with stabilizing system and fixed central pins (©BSI)



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
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

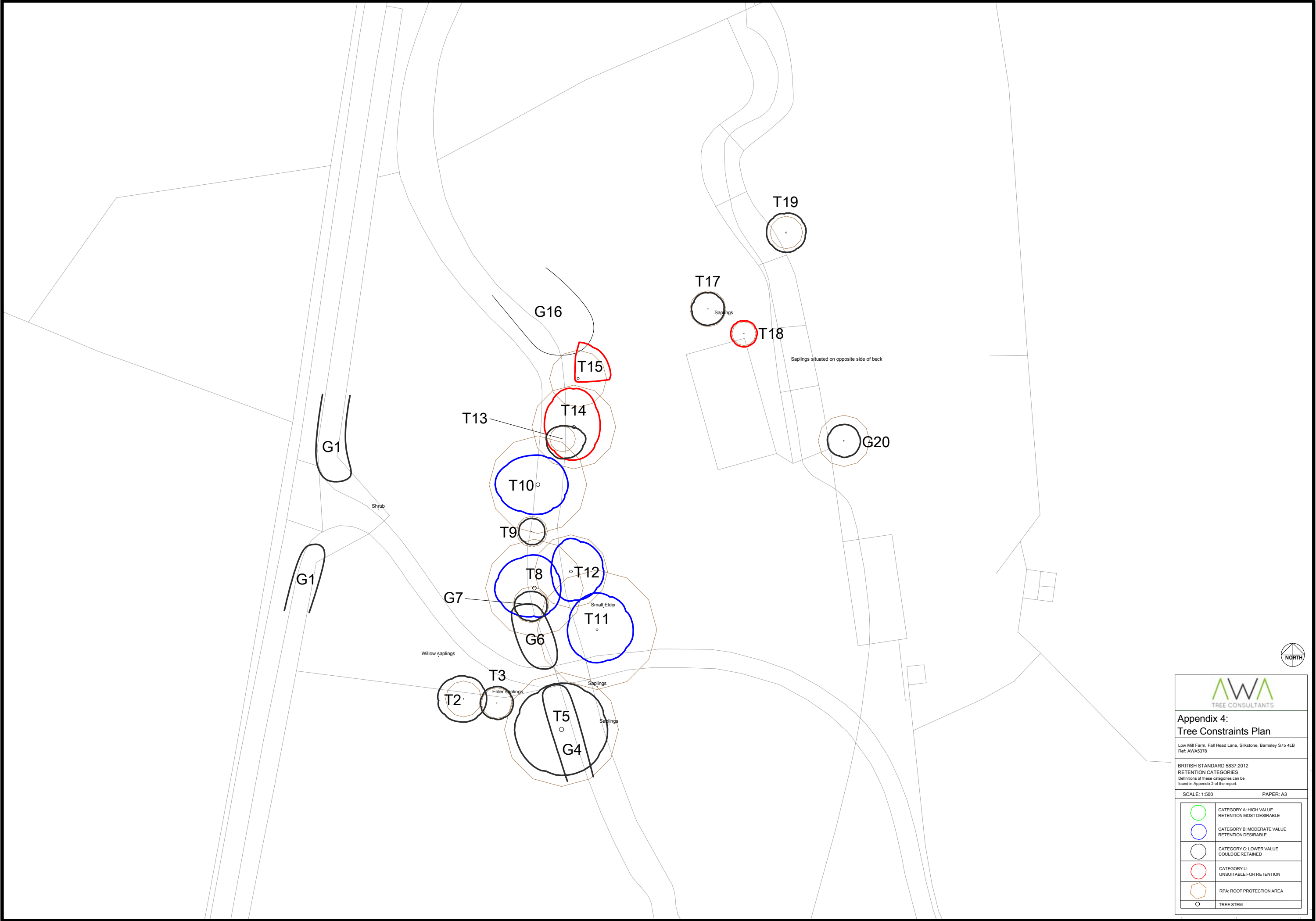
	Tree Species			Measurements				Crown (m)				Tree Condition							Value		Management	
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Average Height (m)	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
G1	Hawthorn. Oak.	<i>Crataegus sp.</i> <i>Quercus sp.</i>	Semi-mature	4	10	30	No	0	See plan				Hedgerow. Hawthorn with occasional Oak sapling. Historically managed, recently unmanaged.				Fair	Fair	>40 yrs	Low	C	No works required
T2	Hawthorn	<i>Crataegus monogyna</i>	Semi-mature	7	10	70	Yes	1.5	3.5	3.5	3.5	4	Limited access around base	Multiple stemmed at base. Vertical. Stubs. Bark damage. Epicormic growths. Minor cavities. Minor decay. Ivy covered. Tight unions. Partially included bark	Minor deadwood. Minor snapouts. Ivy covered	Delapidated low dry stone wall to immediate north. Limited access.	Fair	Fair	>40 yrs	Low	C	No works required
T3	Hawthorn	<i>Crataegus monogyna</i>	Semi-mature	7	10	60	Yes	0.5	2.5	2.5	2.5	2.5	Limited access around base	Multiple stemmed at base. Vertical. Epicormic growths. Ivy covered. Tight unions. Partially included bark. Bark damage	Minor deadwood. Minor snapouts. Ivy covered	Delapidated low dry stone wall to immediate north. Limited access.	Fair	Fair	>40 yrs	Low	C	No works required
G4	Hawthorn	<i>Crataegus monogyna</i>	Early-mature	5	10	60	Yes	0.5	See plan				Linear shrubby group of Hawthorn. Situated on beck banking on western side of beck. Limited access.				Fair	Fair	>40 yrs	Low	C	No works required

Tree ID	Tree Species		Maturity	Measurements				Crown (m)				Tree Condition								Value		Management
	Common Name	Latin Name		Height (m)	Stems	Stem Diameter (mm)	Estimated	Average Height (m)	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
T5	Ash	<i>Fraxinus excelsior</i>	Mature	19	1	700	Yes	5	7	7	7	7	Limited access around base. Soil erosion. Exposed roots	Single stemmed. Vertical. Ivy covered. Stubs	Minor deadwood. Minor snapouts	Situated on beck banking on western side of beck. Limited access. Very Ivy covered.	Good	Fair	10 to 20 yrs	Moderate	C	No works required
G6	Hawthorn. Elder.	<i>Crataegus sp.</i> <i>Sambucus sp.</i>	Young	5	10	50	Yes	0.5	See plan				Linear group of young Hawthorn and Elder. Situated on beck banking on western side of beck. Limited access. Elder in poor condition.				Fair	Fair	20 to 40 yrs	Low	C	No works required
G7	Sycamore	<i>Acer pseudoplatanus</i>	Young	7	10	70	Yes	0.5	2	2.5	2.5	2.5	Limited access around base. Soil erosion. Exposed roots	Multiple stemmed at base. Vertical. Old pruning wounds. Tight unions. Rubbing stems	Minor deadwood	Group of young Sycamore forming one crown. Situated on beck banking on western side of beck. Limited access.	Fair	Fair	10 to 20 yrs	Low	C	No works required
T8	Alder	<i>Alnus glutinosa</i>	Early-mature	13	1	600	Yes	2	5	4	4.5	6	Limited access around base. Soil erosion. Exposed roots	Single stemmed. Vertical. Tight union. Partially included bark. Bark damage. Stubs	Minor deadwood. Minor snapouts. Minor dieback	Twin stemmed at 2.5m with included bark union. Situated on beck banking on western side of beck. Limited access.	Fair	Fair	20 to 40 yrs	Moderate	B	No works required
T9	Hawthorn	<i>Crataegus monogyna</i>	Early-mature	5.5	10	60	Yes	0.5	2	2	2	2	Limited access around base. Soil erosion. Exposed roots	Multiple stemmed at 1m. Slight lean north east. Tight unions	Minor deadwood. Minor snapouts	Situated on beck banking on western side of beck. Limited access.	Good	Fair	>40 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 Diameter (mm)	Estimated	Average Height (m)	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
T10	Alder	<i>Alnus glutinosa</i>	Early-mature	13	1	600	Yes	2	4.5	4.5	4.5	6.5	Soil erosion. Exposed roots	Single stemmed. Vertical. Epicormic growths	Minor deadwood. Minor snapouts	Situated on beck banking on western side of beck. Limited access.	Good	Fair	20 to 40 yrs	Moderate	B	No works required
T11	Alder	<i>Alnus glutinosa</i>	Early-mature	17	6	300	Yes	3	5.5	5.5	5	4.5	Limited access around base. Soil erosion. Exposed roots	Multiple stemmed at base. Vertical. Epicormic growths. Tight unions. Partially included bark	Minor deadwood. Minor snapouts	Situated on beck banking on eastern side of beck. Limited access.	Good	Fair	20 to 40 yrs	Moderate	B	No works required
T12	Alder	<i>Alnus glutinosa</i>	Early-mature	16	1	450	Yes	2	5	5	4.5	3	Soil erosion. Exposed roots. Limited access around base	Single stemmed. Vertical. Epicormic growths	Minor deadwood. Minor snapouts	Situated on beck banking on eastern side of beck. Limited access.	Good	Fair	20 to 40 yrs	Moderate	B	No works required
T13	Elder	<i>Sambucus nigra</i>	Semi-mature	5.5	10	50	Yes	0.5	2	3.5	3	2.5	Limited access around base. Soil erosion. Exposed roots	Multiple stemmed at base. Vertical. Stubs. Tight unions. Partially included bark	Minor dieback. Minor deadwood. Minor snapouts	Situated on beck banking on eastern side of beck. Limited access.	Fair	Fair	10 to 20 yrs	Low	C	Removal required to facilitate development
T14	Alder	<i>Alnus glutinosa</i>	Dead	14	2	250, 450	Yes	1.5	6	4	5	4.5	Limited access around base. Soil erosion. Exposed roots	Twin stemmed at 1m. Vertical. Moderate cavities. Moderate decay	Major dieback. Minor deadwood. Moderate deadwood. Major deadwood. Minor snapouts. Moderate snapouts. Major snapouts	Dead. Situated on beck banking on eastern side of beck. Limited access.	Dead	Dead	n/a	Dead	U	Removal required regardless of development

Tree ID	Tree Species		Maturity	Measurements				Crown (m)				Tree Condition								Value		Management
	Common Name	Latin Name		Height (m)	Stems	Stem Diameter (mm)	Estimated	Average Height (m)	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
T15	Alder	<i>Alnus glutinosa</i>	Early-mature	6	1	350	No	0	5.5	5	0.5	0.5	Soil erosion. Exposed roots. Failed at roots	Single stemmed. Significant lean north east. Failed	Minor dieback. Minor deadwood. Minor snapouts	Failed and leaning to north east	Fair	Poor	<10 yrs	Low	U	Removal required regardless of development
G16	Alder. Ash. Hawthorn. Elder.	<i>Alnus sp.</i> <i>Fraxinus sp.</i> <i>Crataegus sp.</i> <i>Sambucus sp.</i>	Early-mature	15	10	300	Yes	1	See plan				Linear group. Taller Alder and Ash with shrubby understorey of Elder and Hawthorn. Situated on beck banking on eastern side of beck. Limited access.				Fair	Fair	20 to 40 yrs	Moderate	C	No works required
T17	Elder	<i>Sambucus nigra</i>	Semi-mature	5	10	70	Yes	1	2.5	2.5	2.5	2.5	Limited access around base	Multiple stemmed at base. Vertical. Tight unions. Partially included bark. Minor cavities. Minor decay	Minor dieback. Minor deadwood. Minor snapouts	Limited access due to dense undergrowth	Fair	Fair	10 to 20 yrs	Low	C	Removal required to facilitate development
T18	Elder	<i>Sambucus nigra</i>	Semi-mature	5.5	6	60	Yes	1	2	2	2	2	Limited access around base	Multiple stemmed at base. Vertical. Tight unions. Partially included bark. Minor cavities. Minor decay	Minor dieback. Minor deadwood. Minor snapouts	Growing up against and in contact with barn. Limited access due to dense undergrowth.	Fair	Fair	10 to 20 yrs	Low	U	Removal required regardless of development
T19	Oak	<i>Quercus robur</i>	Semi-mature	7	1	200	Yes	0	3	3	3	3	Limited access around base. Soil erosion. Exposed roots	Single stemmed. Vertical	Minor deadwood	Situated on opposite side of beck. Limited access.	Good	Fair	20 to 40 yrs		C	No works required

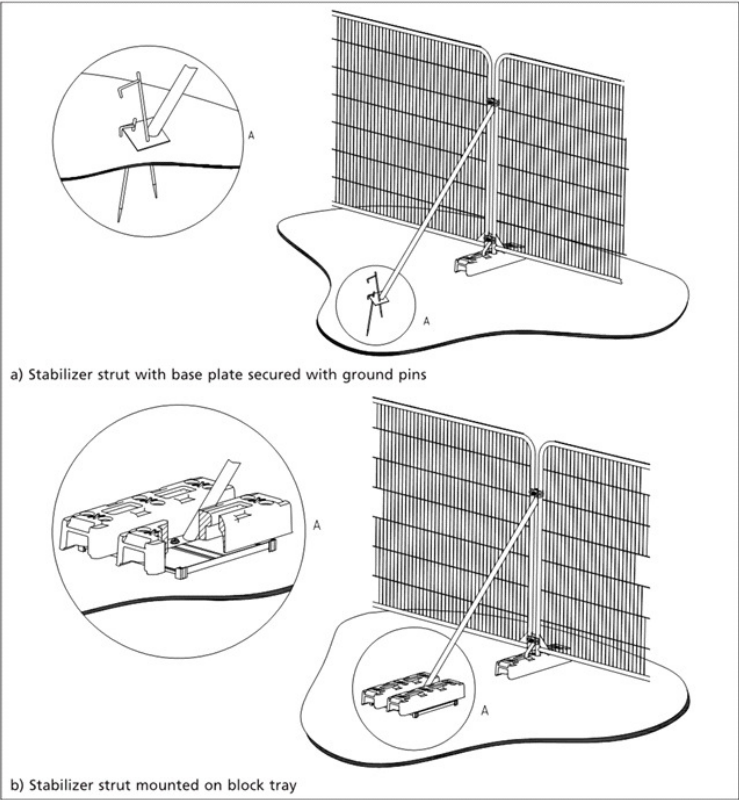
Tree ID	Tree Species		Maturity	Measurements				Crown (m)					Tree Condition							Value		Management
	Common Name	Latin Name		Height (m)	Stems	Stem Diameter (mm)	Estimated	Average Height (m)	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
G20	Sycamore. Hawthorn.	<i>Acer sp.</i> <i>Crataegus sp.</i>	Semi-mature	11	10	100	Yes	0.5	2.5	2.5	2.5	2.5	Limited access around base. Soil erosion. Exposed roots	Multiple stemmed at base. Vertical. Tight unions. Partially included bark	Minor deadwood	Sycamore and Hawthorn forming one crown. Situated on opposite side of beck. Limited access.	Fair	Fair	10 to 20 yrs	Low	C	No works required



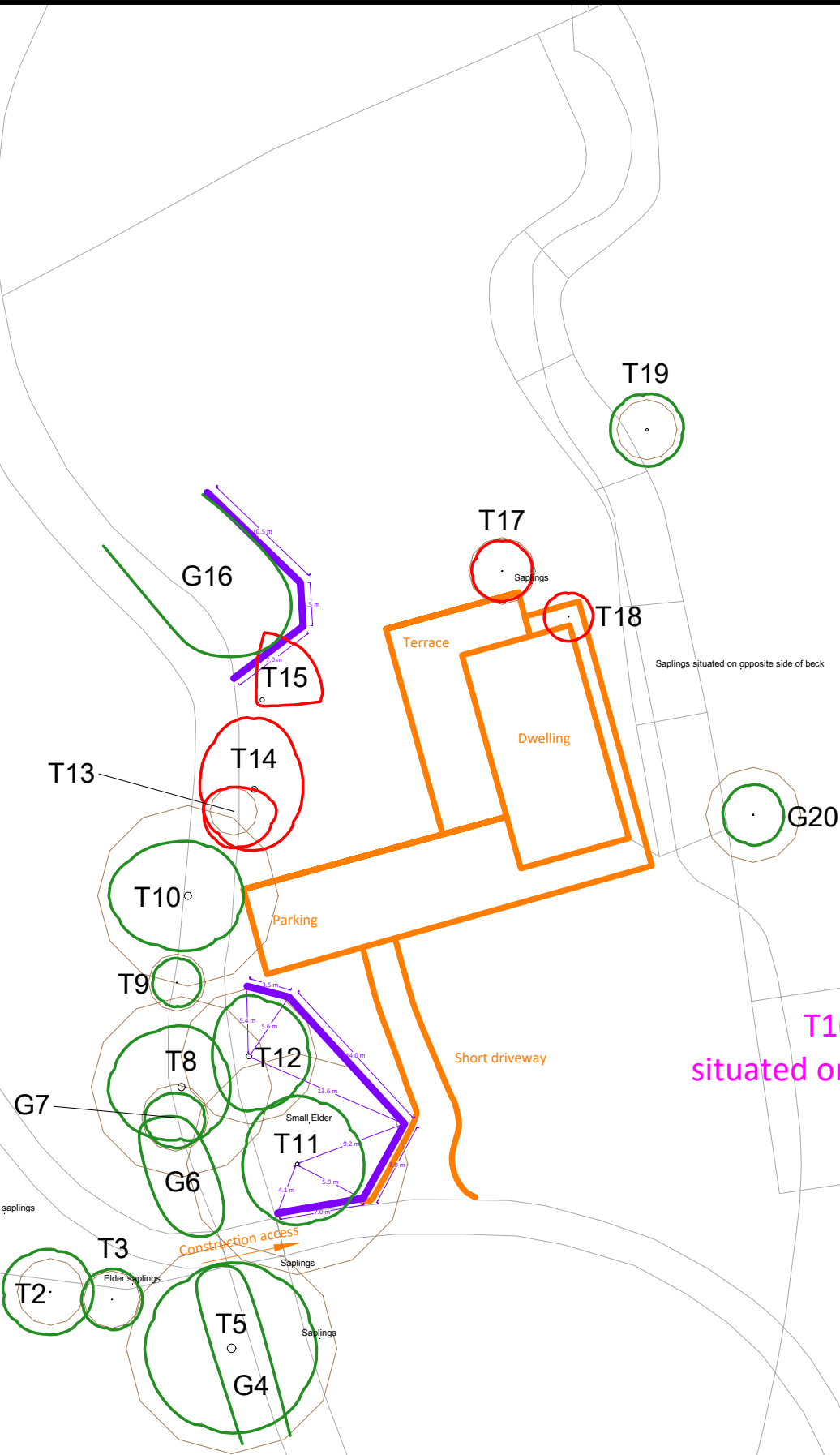
Inset 1: Tree protection fencing



Inset 2: Tree protection fencing



Inset 3: Warning sign for tree protection fencing



Appendix 5:
Tree Protection Plan

Low Mill Farm, Fall Head Lane, Silkstone, Barnsley S75 4LB
Ref: AWAS378

BRITISH STANDARD 5837:2012
SCALE: 1:500 PAPER: A3

	TREE/ TREE GROUP/ HEDGE TO BE RETAINED
	TREE/ TREE GROUP/ HEDGE TO BE REMOVED
	TREE STEM
	RPA: ROOT PROTECTION AREA
	TREE PROTECTION FENCING