

Arboricultural Method Statement

Land at Redhills, Exeter, Devon

29 April 2024

Ecology
Arboriculture
Land Management





Quality Assurance

Report Title	Arboricultural Method Statement
Report Reference	1231-AMS-MU
Issue Date	29 April 2024

Revision Record

Revision	Date	Author	Checked By	Approver	Summary of Changes
Final	29 April 2024	Matt Underwood BSc MArborA	Adam Earl BSc MArborA MCIEEM	Adam Earl BSc MArborA MCIEEM	N/A

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Site Details

Site Name and Location	Land at Redhills, Exeter, Devon
Central OS Grid Reference	SX 897 931
Client	Tilia Homes

Boundary





Contents

1	Introduction	2
2	Arboricultural Method Statement	3

Appendices

Appendix 1 – Tree Survey Schedule.....	8
Appendix 2 – Tree Protection Plan.....	9
Appendix 3 – Tree Works Specification.....	10
Appendix 4 – Tree Protection Fencing Specification.....	11
Appendix 5 – Example Tree Protection Fencing Signage	13



1 Introduction

This Arboricultural Method Statement (AMS) for Land at Redhills, Exeter, Devon provides a methodology on how retained arboricultural features (and their rooting medium) will be protected during the construction process. The Method Statement was commissioned by Tilia Homes.

This method statement has been informed by an arboricultural survey undertaken by Matt Underwood BSc MArborA on the 14th February 2024. Details of those trees surveyed can be found in **Appendix 1**. The survey and method statement has been prepared in accordance with BS5837:2012 'Trees in relation to design, demolition and construction – Recommendations' based on information available at the time of writing.

The Method Statement includes the production of a Tree Protection Plan which can be found in **Appendix 2**.

This document should be retained on site as a reference document for the duration of the demolition and construction works. Failure to abide by this method statement could be considered a breach of planning and may result in enforcement action being taken by the local planning authority.

2 Arboricultural Method Statement

Section	Work Phase	Relevant Arboricultural Feature(s)	Protection Measure/Methodology	Responsibility
1	Enabling	See Appendix 3	Initial Tree Works – Removals and Pruning - All works to be carried out in accordance with the works specified in Appendix 3 and following BS3998:2010 'Tree Works – Recommendations'. - No bonfires are permitted within 5m of the canopy of any retained tree. - Ground level vegetation and tree stumps should be removed using powered hand tools e.g. brush cutter and stump grinder if it is to be undertaken in the root protection areas of retained trees. Stump grinding should not penetrate further than 100mm below ground level and plant machinery should not be used to scrape vegetation or remove stumps in the root protection areas of retained trees.	Contractor/ Arborist
2	Enabling	All retained trees and hedgerow	Tree Protection Fencing (TPF) - All TPF should be installed in the locations as shown on the Tree Protection Plan in Appendix 2 following completion of the initial tree works prior to the commencement of any groundworks, demolition or construction works on site. - The specification for the TPF can be found in Appendix 4. - Adequate signage denoting the importance of TPF should be affixed to the fencing. Example signage can be found in Appendix 5. - The TPF will denote and form the boundary to the Construction Exclusion Zone (CEZ). - Fencing to remain in place for duration of construction.	Contractor with sign off from project arboriculturalist.
3	Enabling	T3, T5, T8, G14, G15	Temporary Ground Protection in Root Protection Areas (RPA) Where the encroachment into the RPA will occur on unmade ground, temporary ground protection is required to prevent compaction of the rooting medium. The structural integrity of the ground protection is dependent on the likely loading requirements.	Contractor with sign off from project arboriculturalist.

			🌿 For pedestrian use - a single thickness scaffold board placed either on top of a driven scaffold frame (forming a suspended walkway) or on top of a compression-resistant layer (100mm depth of woodchip) laid onto a geotextile membrane; 🌿 For plant up to 2 tonnes – proprietary inter-linked ground protection boards placed on top of compression resistant layer (150mm depth of woodchip) laid onto a geotextile membrane; 🌿 For plant over 2 tonnes – proprietary ground protection system or cast concrete slab that is able to accommodate likely loading requirements, as specified by the engineer with advice from the project arboriculturalist.	
4	Enabling	All retained trees and hedgerow	Temporary Site Buildings and Materials Storage 🌿 All buildings and materials shall be located outside of the CEZ as denoted by the TPF. 🌿 Harmful chemicals/materials should be stored on an impermeable membrane and at a sufficient distance from the CEZ so that any potential spillages will not enter the root protection areas of retained trees. 🌿 The location of site cabins and materials store should be agreed with the project arboriculturalist during the pre-commencement meeting.	Contractor with sign off from project arboriculturalist.
5	Construction	T1, T3	Excavation in Root Protection Areas 🌿 All excavation works within the RPAs should be undertaken under the supervision of the project arboriculturalist. 🌿 Where possible, excavation should be undertaken by hand. The project arboriculturalist may provide guidance on the use of light plant machinery where feasible to do so. 🌿 The project arboriculturalist will undertake root pruning and advise on any remedial measures if deemed necessary. All pruning shall be undertaken perpendicular to the root using sharp secateurs so to provide a clean cut and minimal wound area.	Contractor with supervision from project arboriculturalist.
6	Construction	H17	Translocation of Retained Hedgerows 🌿 Translocation must only occur during the winter months (October to March) when the trees are in their dormancy phase.	Contractor with supervision from project arboriculturalist.

			🌿 The indicative transplant location is shown on the TPP, however the final location will be agreed on site with project arboriculturalist before works commence. 🌿 A planting trench shall be excavated before hedgerow is lifted. The project arboriculturalist will first assess the trees and specify the required width and depth. 🌿 The hedgerow will be pruned, either by mechanical flail or using hand tools, prior to translocation to ensure easier movement. 🌿 Translocation will be carried out in short sections. 🌿 Translocation of each section will be carried out as one continuous operation, ensuring the hedgerow is lifted and replanted in the shortest possible period of time to avoid root desiccation. 🌿 The hedgerow roots will be excavated to a depth greater than 60cm to minimise root damage. 🌿 The project arboriculturalist will undertake root pruning and advise on any remedial measures if deemed necessary. All pruning shall be undertaken perpendicular to the root using sharp secateurs so to provide a clean cut and minimal wound area. 🌿 Hedgerow will moved and replanted following BS8545:2014 'Tree: from nursery to independence in the landscape – Recommendations'. 🌿 Once translocated, the hedgerow will to be watered daily during the growing season for one year after transplanting, and then watered weekly during the growing season for a futher year. Further watering may be required during periods of drought.	
7	Construction	T3	Installation of Services within Root Protection Areas 🌿 The proposed scheme requires the installation of a drainage pipe within the root protection area of tree T3. 🌿 All services should be installed in accordance with NJUG Volume 4 'Guidelines for the planning, installation and maintenance of utilities in proximity to trees' and BS5837:2012. 🌿 Where possible, the services will be installed using trenchless techniques. The launch and reception pits will be located outside of the root protection areas. In order to avoid damage to roots by percussive boring techniques it is recommended that the depth of run should be below 600mm. 🌿 Where the span of the service route is minimal within the root protection area, the services could be installed by an open trench, dug either by hand or using an air	Contractor with supervision from project arboriculturalist.

			displacement system. This will allow for the retention of all major roots (those >25mm in diameter or forming a fibrous root mat). Any exposed roots should be wrapped in hessian cloth for protection and should not be left exposed out of the soil for more than 24 hours. Care should be taken when back filling, not to heavily compact the soil around the roots.  Excavation within the RPA of T3 will be carried out in accordance with Section 5.	
8	Landscape	All retained trees and hedgerow	Fencing within Root Protection Areas  To be undertaken as final phase of development and will require access into the construction exclusion zone.  Fencing should be of a post and rail design with gravel boards installed above ground level. Fencing where trenching is required is prohibited.  The post holes shall be dug by hand and repositioned to accommodate any significant roots should they be encountered during excavation.  If concrete is required to set the posts, then the holes should be sleeved with an impermeable material to prevent chemical damage to roots from uncured cement.  Scaffold boards should be used to transport fencing materials across the RPA to prevent compaction of the rooting medium.	Contractor
9	Landscape	All retained trees and hedgerow	Landscaping within Root Protection Areas  To be undertaken as final phase of development.  The soft landscape proposals have not been finalised at the time of writing but is likely to include turbing and plant/shrub planting.  Where soil preparation is required, this should be done so by raking or light tilling. Use of rotavators is prohibited.  Where top soil is imported it should not increase the ground level by 100mm to prevent root suffocation.  Scaffold boards should be used to transport planting materials across the RPA to prevent compaction of the rooting medium.  All planting pits should be dug by hand to accommodate the root and prevent their damage/severance.	Contractor

10	All	All retained trees and hedgerow	Unpredictable Tree Impacts 🌳 If, during demolition and/or construction damage is inadvertently caused to the retained trees, the project arboriculturalist should be contacted immediately. The arboriculturalist will be able to assess the impact of the damage and prescribe remedial measures where necessary. 🌳 Inadvertent damage includes significant root severance (roots in excess of 25mm diameter or densely matted fibrous roots), direct strikes to tree stem/limb, chemical spillages in RPA and fire damage.	Contractor
11	All	All retained trees and hedgerow	Site Monitoring 🌳 The project arboriculturalist will undertake regular site visits during the construction phases of development to ensure that the arboricultural features on site are protected in accordance with this arboricultural method statement. 🌳 The visits should include but not be limited to: - o A pre-commencement meeting to discuss the tree protection methodology, the phasing of works and the location of contractor facilities and materials storage areas. - o A further pre-commencement meeting to certify the location and specification of the tree protection fencing (and other tree protection measures, if required). - o To supervise excavation in root protection area of T1 and T3. - o To supervise installation of drainage in root protection area of T3. 🌳 In addition to the above, a monitoring regime should also be established by the project arboriculturalist with the frequency of visits discussed during the pre-commencement meeting and agreed with the local authority arboricultural officer. A fully auditable site monitoring log should be prepared following each visit, a copy of which should be retained on site and provided to the local authority arboricultural officer on request.	Project arboriculturalist following appointment by contractor.



Appendix 1 – Tree Survey Schedule

Feature Number	Species	Height (m)	Stem Ø (mm)	Crown Spread (m)				Height above ground (m)		Life Stage	Physiological Condition	Structural Condition	Root Protection Area (m²)	Root Protection Radius (m)	Category	Suitable Useful Life Expectancy
				N	E	S	W	Crown	1st Sig. Branch							
T1	Pedunculate oak	14	850	7	7	7	7	3 Av	3 Av	Mature	Good	Good	326.7	10.2	A 1	40+
Comments	Open grown form.										Management	None at the time of survey.				
T2	Turkey oak	3.5	650 670	0.5	0.5	0.5	0.5	N/A	N/A	Mature	Fair	Good	452.2	12.0	C 1	10+
Comments	Crown removed. Reduced to 3.5m.										Management	None at the time of survey.				
T3	Pedunculate oak	13	1230	4	9	9	12	2.5 E	2.5 E	Late mature	Good	Fair	684.1	14.8	A 3	40+
Comments	High ecological value.										Management	None at the time of survey.				
T4	Turkey oak	3.5	880	0.5	0.5	0.5	0.5	N/A	N/A	Mature	Fair	Good	350.2	10.6	C 1	10+
Comments	Crown removed. Reduced to 3.5m.										Management	None at the time of survey.				
T5	Pedunculate oak	18	1200	9	11	11	11	3 Av	3 Av	Mature	Good	Good	651.1	14.4	A 1	40+
Comments	Open grown form.										Management	None at the time of survey.				
T6	Ash	10	350	4	4	4	4	2.5 Av	2.5 Av	Semi-mature	Good	Fair	55.4	4.2	C 1	30+
Comments	Multi-stemmed from base.										Management	None at the time of survey.				
T7	Pedunculate oak	11	800	6	4.5	4	4	3 Av	3 Av	Mature	Poor	Fair	289.4	9.6	U	<10
Comments	Crown predominantly dead.										Management	Reduce to 6m and retain as monolith.				
T8	Pedunculate oak	20	1100	10	10	10	10	2.5 Av	2.5 Av	Mature	Good	Good	547.1	13.2	A 3	40+
Comments	Open grown form.										Management	None at the time of survey.				
T9	Pedunculate oak	19	1100	9	6	9	6	2.5 Av	2.5 Av	Mature	Good	Good	547.1	13.2	A 2	40+
Comments	High ecological value.										Management	None at the time of survey.				
T10	Pedunculate oak	19	1100	9	6	9	6	2.5 Av	2.5 Av	Mature	Good	Good	547.1	13.2	A 2	40+
Comments	High ecological value.										Management	None at the time of survey.				
G11	Pedunculate oak	14	550 Av	7	7	7	7	0 W	1 W	Early mature to mature	Good	Good	136.8	6.6	B 2	40+
Comments	Linear tree group on field boundary.										Management	None at the time of survey.				
G12	Pedunculate oak	18	750 Av	9	9	9	9	0 W	1 W	Early mature to mature	Good	Good	254.3	9.0	B 2	40+
Comments	Linear tree group on field boundary.										Management	None at the time of survey.				

Key

T: Tree G: Group H: Hedgerow W: Woodland Av: Average
Est: Estimated Dimension Comb: Combined Stem Diameter



Tree Survey Schedule

Feature Number	Species	Height (m)	Stem Ø (mm)	Crown Spread (m)				Height above ground (m)		Life Stage	Physiological Condition	Structural Condition	Root Protection Area (m²)	Root Protection Radius (m)	Category	Suitable Useful Life Expectancy
				N	E	S	W	Crown	1st Sig. Branch							
G13	Ash, Hawthorn, Pedunculate oak	Up to 13	Up to 500	6	6	6	6	0 N	1 N	Early mature	Good	Fair	113.0	6.0	B 2	40+
Comments	Linear tree group on field boundary.										Management	None at the time of survey.				
G14	Pedunculate oak, Holly, Hawthorn, Hazel, Blackthorn	Up to 14	Up to 500	5	5	5	5	0 S	1 S	Semi-mature to early mature	Good	Fair	113.0	6.0	B 2	40+
Comments	Linear tree group on field boundary.										Management	None at the time of survey.				
G15	Pedunculate oak, Holly, Hawthorn, Hazel, Blackthorn	Up to 14	Up to 500	5	5	5	5	0 S	1 S	Semi-mature to early mature	Good	Fair	113.0	6.0	B 2	40+
Comments	Linear tree group on field boundary.										Management	None at the time of survey.				
T16	Pedunculate oak	14	500	5	5	5	5	2 S	2 S	Mature	Poor	Fair	113.0	6.0	U	<10
Comments	Crown predominantly dead.										Management	Reduce to 6m and retain as monolith.				
H17	Holly, Hawthorn, Hazel, Field maple, Blackthorn	3	100 Av	1	1	1	1	0 Av	N/A	Mature	Good	Good	4.5	1.2	C 2	40+
Comments	Flail managed hedgerow.										Management	None at the time of survey.				
H18	Holly, Hawthorn, Hazel, Field maple, Blackthorn	3	100 Av	1	1	1	1	0 Av	N/A	Mature	Good	Good	4.5	1.2	C 2	40+
Comments	Flail managed hedgerow.										Management	None at the time of survey.				
H19	Holly, Hawthorn, Hazel, Field maple, Blackthorn	3	100 Av	1	1	1	1	0 Av	N/A	Mature	Good	Good	4.5	1.2	C 2	40+
Comments	Flail managed hedgerow.										Management	None at the time of survey.				
W20	Beech, Oak, Hawthorn, Hazel, Holly	Up to 21	Up to 600	7	7	7	7	0 N	1 N	Semi-mature to mature	Good	Good	162.8	7.2	B 2/3	40+
Comments	Mixed woodland. Canopy overhanging site.										Management	None at the time of survey.				
T21	Pedunculate oak	14	600	5	5	5	5	5 E	5 E	Early mature	Good	Good	162.8	7.2	B 1	40+

Key

T: Tree G: Group H: Hedgerow W: Woodland Av: Average
Est: Estimated Dimension Comb: Combined Stem Diameter



Feature Number	Species	Height (m)	Stem Ø (mm)	Crown Spread (m)				Height above ground (m)		Life Stage	Physiological Condition	Structural Condition	Root Protection Area (m²)	Root Protection Radius (m)	Category	Suitable Useful Life Expectancy	
				N	E	S	W	Crown	1st Sig. Branch								
Comments	On road side bank. RPA restricted by level changes to east. Dimension estimated.										Management	None at the time of survey.					
G22	Ash, Sycamore, Pedunculate oak	15	400 Av	4	4	4	4	5 E	5 E	Semi-mature to early mature	Fair	Fair	72.3	4.8	C 2	30+	
Comments	Linear group on road side bank. RPA restricted by level changes to east. Dimension estimated.										Management	None at the time of survey.					
T23	Pedunculate oak	15	800	7	7	7	7	5 W	5 W	Mature	Good	Good	289.4	9.6	A 1	40+	
Comments	On road side bank. RPA restricted by level changes to west. Dimension estimated.										Management	None at the time of survey.					
G24	Pedunculate oak	14	500 Av	5.5	5.5	5.5	5.5	5 W	5 W	Early mature	Good	Good	113.0	6.0	B 2	40+	
Comments	Linear group on road side bank. RPA restricted by level changes to west. Dimension estimated.										Management	None at the time of survey.					

Key

T: Tree G: Group H: Hedgerow W: Woodland Av: Average
Est: Estimated Dimension Comb: Combined Stem Diameter





Appendix 2 – Tree Protection Plan

The diagram illustrates the layout of a construction site with various exclusion and protection zones. It includes the following components:

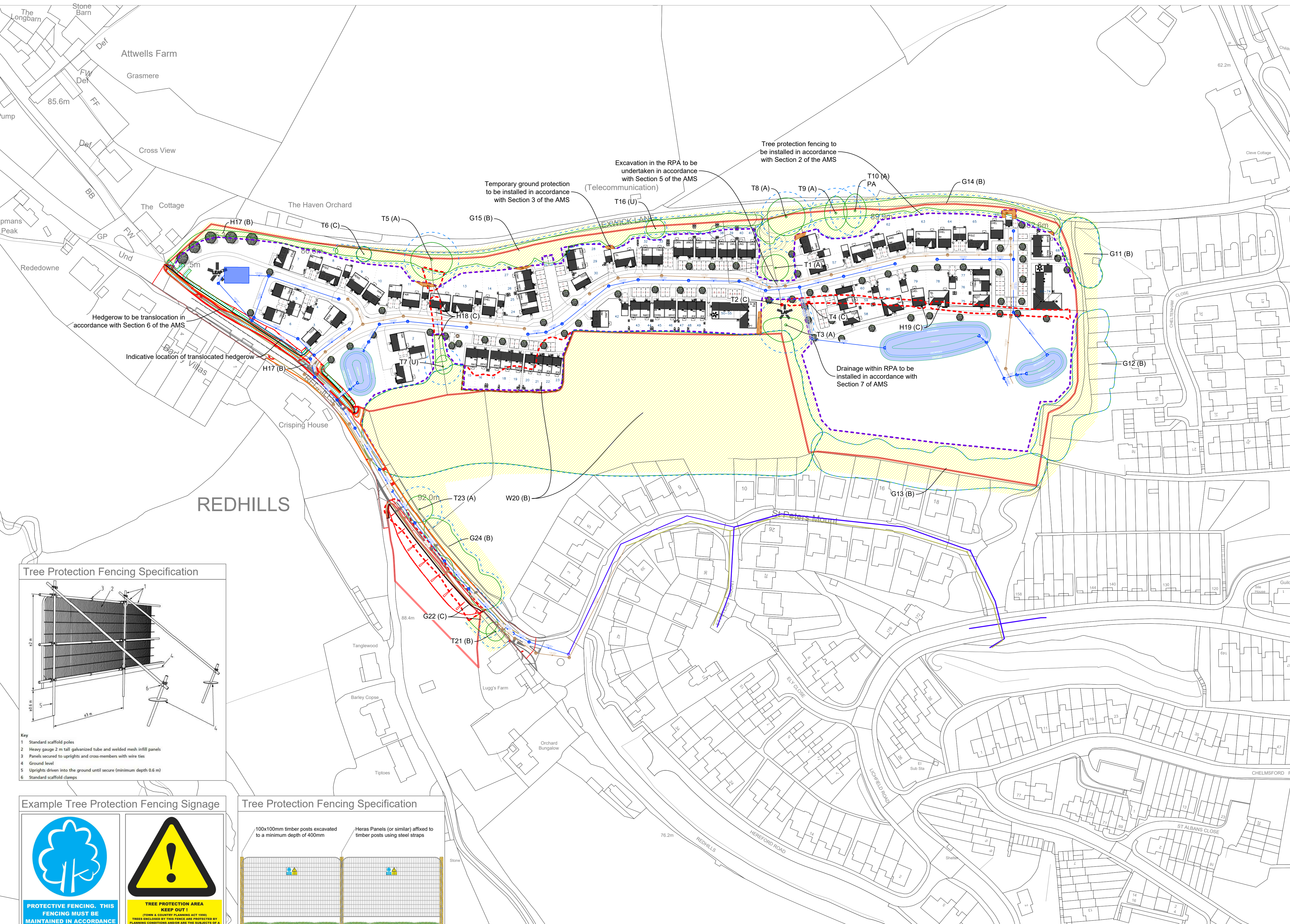
- Construction Exclusion Zone:** A large yellow square area with a green circle inside, representing the main construction area.
- Temporary Ground Protection:** A green circle within the yellow area, indicating a specific protection zone.
- Specialist Construction Technique:** A blue dashed circle within the green circle, indicating a specific construction technique area.
- Tree and Hedgerow To Be Removed:** A red dashed circle, indicating the area to be removed.
- Hedgerow to be translocated:** A red dashed rectangle, indicating the area to be translocated.
- Indicative location of translocated hedgerow:** A green rectangle, indicating the location where the hedgerow will be translocated.



Location of trees suffixed with PA (position approximate) have been estimated on site.

Project:
Land at Redhills, Exeter

Revision:



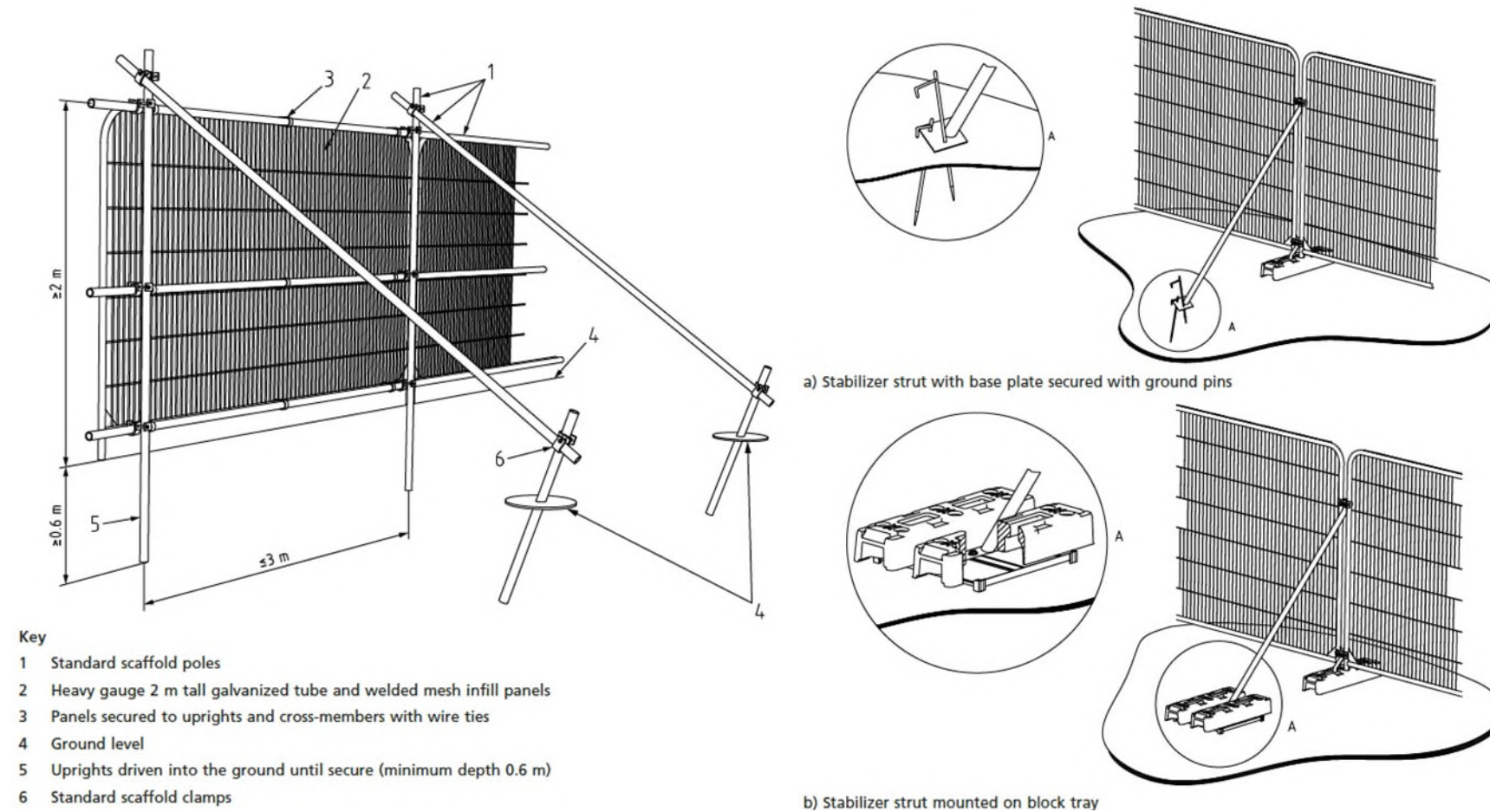
Appendix 3 – Tree Works Specification

Arboricultural Feature	Species	Works Required
T2	Turkey oak	Fell
T4	Turkey oak	Fell
T7	Pedunculate oak	Reduce to 6m and retain as monolith
G14	Pedunculate oak, Holly, Hawthorn, Hazel, Blackthorn	Reduce lateral growth by 1-2m south adjacent to Plots 66
G15	Pedunculate oak, Holly, Hawthorn, Hazel, Blackthorn	Reduce lateral growth by 1-2m south adjacent to Plots 32-41
H17	Holly, Hawthorn, Hazel, Field maple, Blackthorn	Fell one section as shown on TPP
H18	Holly, Hawthorn, Hazel, Field maple, Blackthorn	Fell two sections as shown on TPP
H19	Holly, Hawthorn, Hazel, Field maple, Blackthorn	Fell
W20	Beech, Oak, Hawthorn, Hazel, Holly	Fell one section as shown on TPP
G22	Ash, Sycamore, Pedunculate oak	Fell one section as shown on TPP

All works to be carried out in accordance with BS3988:2010 'Tree Work – Recommendations'

All trees should be checked for protected species e.g. roosting bats and nesting birds prior to any works being undertaken.

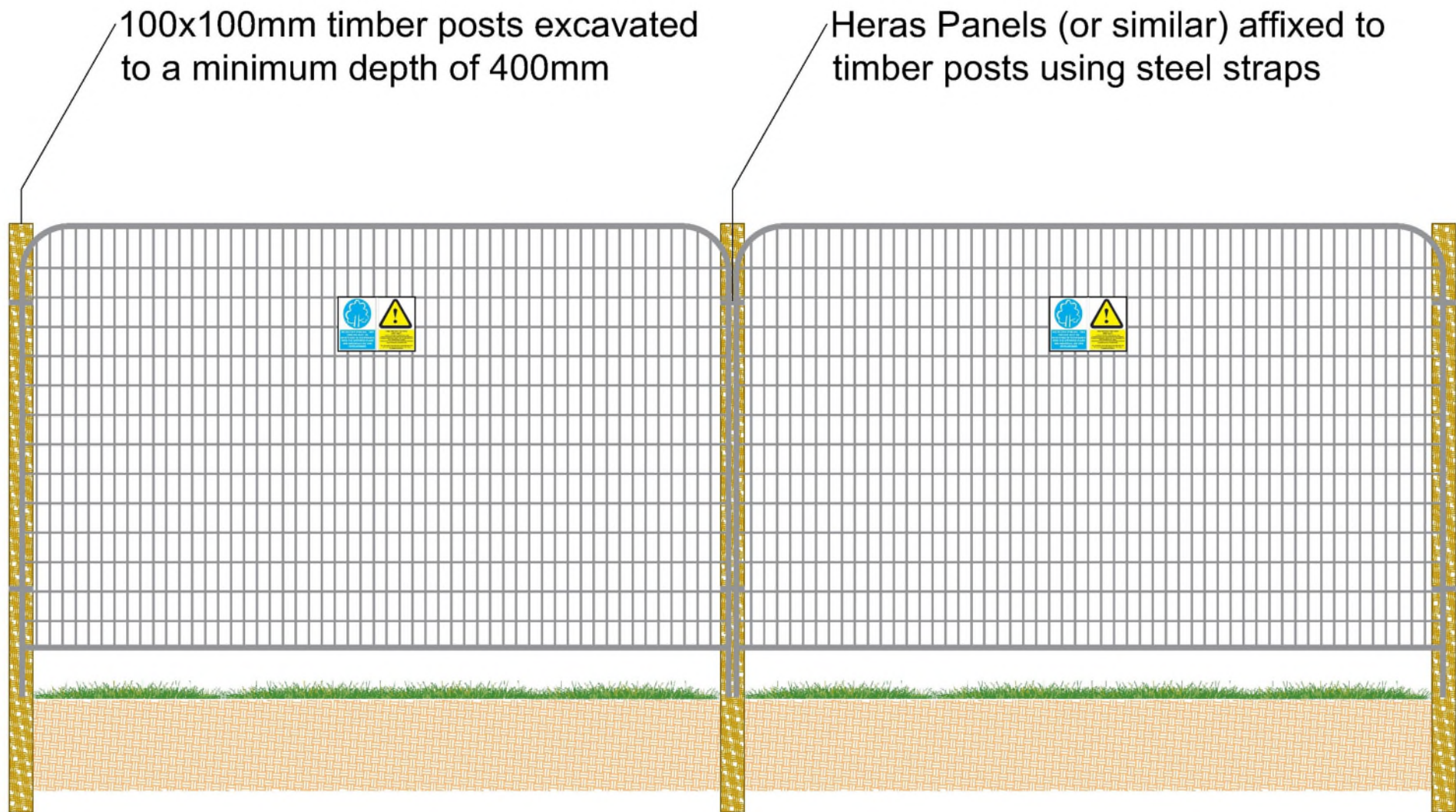
Appendix 4 – Tree Protection Fencing Specification



Default Specification

Above-ground Stabilising System

(Images extracted from BS5837:2012 'Trees in relation to design, demolition and construction – Recommendations')



Alternative Tree Protection Fencing Specification

Appendix 5 – Example Tree Protection Fencing Signage



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