Arboricultural Method Statement and Tree Protection Plan for Development Site:

13 Culham Drive, Maidenhead

**Construction of Conservatory:** 

Date: 4.4.2021

Compiled By: E. M. Butler

# FUTURE TREE

1. Instruction: Mr Mark Simmonds



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- Site Photos



### 1. Report Introduction

#### 1.1 Introduction

This report has been commissioned by Mr Mark Simmonds (Homeowner) in respect of anticipated Planning Application to Royal Borough of Windsor & Maidenhead Planning Dept. (RBW&M).

The Report has been compiled by Edward Butler (N.D. Arb.).

#### 1.2 Objectives of the Tree Protection Plan

- Confirm the trees on the site which are to be retained during and after the development.
- Clarify the extent of the Root Protection Areas required for these retained trees, as indicated within B.S. 5837 Trees in Relation to construction 2012.
- Specify the nature and extent of the Protective Fencing, Ground Protection measures or Supervision where required.
- To provide a Method Statement for the implementation of any Tree Protection Measures.

#### 1.3 Site description.

The site is a private dwelling in a residential area. There are other residential properties to all sides.

#### 1.4 Arboricultural Site History.

The trees on site have been surveyed in accordance to B.S 5837 2012 'Trees in relation to design, demolition and construction – Recommendations'. This Survey was undertaken on the 9<sup>th</sup> Oct 2020.

A topographical survey of the trees on site has been undertaken by the Project Architects / Surveyors. The trees implicated by the project have been recognised as present and their centres accurately plotted as part of this Survey.

Details of tree Species, dimensions etc have been collated by Future Tree in the tree Survey according to 5837 Trees in Relation to construction 2012: 4.6. This information has been used to compile the Tree Constraints Plan which shows in particular the anticipated extent of the root zones of these trees.

The proposed design as considered indicates foundations near or within the periphery of projected root zones of nearby mature trees Beech T2 and Lime T1, as listed in the Tree Survey Schedule. These trees are subject to Tree Preservation Order no. TPO no.8 of 1976.

The homeowner, Mr Simmonds, engaged Future Tree to undertake and compile a Tree Constraints Plan and undertake an Arboricultural Impacts Assessment to establish the potential impact of the proposed design and construction methodology on the trees. These were produced on 31<sup>st</sup> March 2021.



#### 1.5 Conclusion.

The upshot of the Arboricultural Impacts Assessment means the Author believes that, with suitable Arboricultural supervision at key stages, this proposal is viable and sustainable and that no long-term compromise to the heath of retained trees is anticipated.

This is a small project which will not take long to construct. Never-the-less, Tree Protection fencing is deemed prudent to protect the trees on this site. The function of protective fencing is to exclude from the root protection areas those elements of the build which have the potential to cause harm or injury to the retained trees. This function is supported by adequate supervision by the retained Arboriculturalist. Since the project is small-foundation excavation and installation is only expected to take a few hours-then supervision during excavation and footings installation as a protection measure is regarded to be economic as well as effective.

#### 1.6 Other information

The Site is subject to planning control by RBW&M.

It is not the Duty of the Author, within the scope of this report, to investigate or comment on other Environmental Factors such as soil type, water courses, Birds, Bats, Badgers, Foxes, Wild Flora etc which may be independently protected under The Wildlife and Countryside Act 1981, or similar or subsequent legislation.



# 2. Aim of the Development

#### 2.1 General.

With respect to trees, it is the aim of a sensitive development to retain appropriate trees on a site whilst making the best use of available space.

#### 2.2 Specific

This project does not require the removal of established trees to provide space for construction. Excavations for foundations are required within the projected root zones of nearby tree Lime T1. However, the extent of ingress is minimal and not expected to have any effect on the health or longevity of the trees. This is ensured through the implementation of appropriate Tree Protection Measures and Arboricultural supervision at key stages. These protection measures are designed to ensure the successful retention of all trees on the site.

# 3. Protection Measures

#### 4.1 General

In order to satisfy Planning Conditions associated with Consent for development on this site, it will be necessary to demonstrate to the Local Authority a genuine commitment to the *successful* retention of those trees *intended* for retention within the development.

The Local Authority would usually anticipate the submission of a considered method statement(s) and contingency procedure(s), proportionate to the site / project, detailing comprehensive protection for trees both prior to, and during construction activities. Additionally, the inclusion of a Tree Protection Plan indicating location of appropriate tree protection measures.



#### 4.1 Site Specific.

A Tree Protection Plan has been produced to indicate the location for protective fencing and the timings for Arboricultural Supervision to oversee the critical stages where damage to trees could occur, notably the installation of footings.

### 4. Method Statement

#### 4.1 General

It is important to demonstrate a genuine commitment to the successful retention of valuable trees within any proposed scheme.

A Qualified Arboriculturalist (Tree Expert) should be retained for the duration of the development period.

ALL activities required within the root zone of a tree should be undertaken by hand. No mechanical traffic should be allowed above a tree's root zone, since this could cause compaction and damage roots.

No additional excavations (beyond those indicated in the submitted scheme and subject to Granted Consent) should take place within the root zone area of protected trees with out first consulting the retained Arboriculturalist.

The following activities should be undertaken by, or supervised by the retained Arboriculturalist:

- Briefing of site officials regarding procedures pertaining to trees.
- Supervision of excavation of footings.
- Supervision of installation of foundations.
- Any unforeseen activity, planned or, which may be required within the zone of retained trees.

#### Be advised:

Activities which cause damage to a root system can manifest as deterioration in the canopy of a tree. The delay between cause and effect can sometimes be a significant length of time.

The Planning department and its Officers are aware of this phenomenon, and may still seek to prosecute for damaged, compromised, or dead trees some time after a project has been completed.



4.2 Site Specific.

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See attached Method Statement. This is complimented by the Arboricultural Method Statement Plan:



### 5. Suggested References & Contacts.

- British Standard 3998; 2010 Tree Work- Recommendations.
- British Standard 5837; 2012 Trees in relation to Construction.
- Available from: British Standards Institute. 389 Chiswick High Road, London W4 4AL
  - Tel: 0208 996 7000
- National Joint Utilities Group: Publication Volume 4. Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees. Issue 2.
- Available from: National Joint Utilities Group 30 Millbank London SW1P 4RD
  - Tel: 0207 963 5720
- Town And Country Planning Act 1990 Chapter 8.
- Town And Country Planning, England And Wales: The Town and Country Planning (Trees) Regulations 1999.
- Wildlife and Countryside Act 1981.
- Countryside and Rights of Way Act 2000

Available from: Her Majesty's Stationary Office

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 14 Harcourt Drive
 Reading
 Berkshire RG65TJ

Proprietor:Mr. E. ButlerTelephone:0118 967 6950Mobile:07970 495813Email:eddiembutler@yahoo.co.uk



# Appendix.

- Arboricultural Method Statement (AMS)
- Tree Survey Schedule
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# **ARBORICULTURAL METHOD STATEMENT**

This Method Statement should be held in the site office and is to be signed and dated by the Tree Protection Representative on completion of each task. This is complimented by the Arboricultural Method Statement Plan.

Action	Date	Signed
Preparation		
Appoint appropriate Arboricultural Expert to be retained to oversee tree protection measures as required during the development project.		
Arrange installation of specified tree Protection fencing as specified under the supervision of the retained Arboricultural Expert.		
Delegate member of site construction team as Tree Protection Representative to be responsible for Tree Protection and to liaise with the appointed Arboricultural Expert.		
Ensure that requirement for <b>Arboricultural supervision of excavations for foundations / groundworks</b> is understood.		
Ensure that Tree Protection Induction Form is available to be read and signed by all site contractors. These forms are to be retained on site for inspection on demand.		



Action	Date	Signed
First Phase		
Contact Retained Arboriculturalist to establish date for foundations / groundworks to commence under Arboricultural supervision.		

Action	Date	Signed
Second Phase		
Establish the Site Office (if required), storage compound and all contractors' facilities outside of the Tree Root Protection zones. The front drive is to be used as a materials storage area.		
Display Tree Protection laminated notices on Site Office wall (if existing / when the Office is in situ).		
Attach Tree Protection laminated Signage to the tree protection fencing.		
Permit entry onto the site by general contractors, ensuring all operatives have read and signed the Tree Protection Induction Form.		

Action	Date	Signed	
Third Phase			
Undertake excavations for foundations and removal of arising spoil under the supervision of the retained Arboriculturalist. Install new retaining wall (railway sleepers).			
Commence construction activities.			

Action	Date	Signed
Fourth Phase		
Contact retained Arboriculturalist to sign off on completion of construction activities.		



# Data Table Key

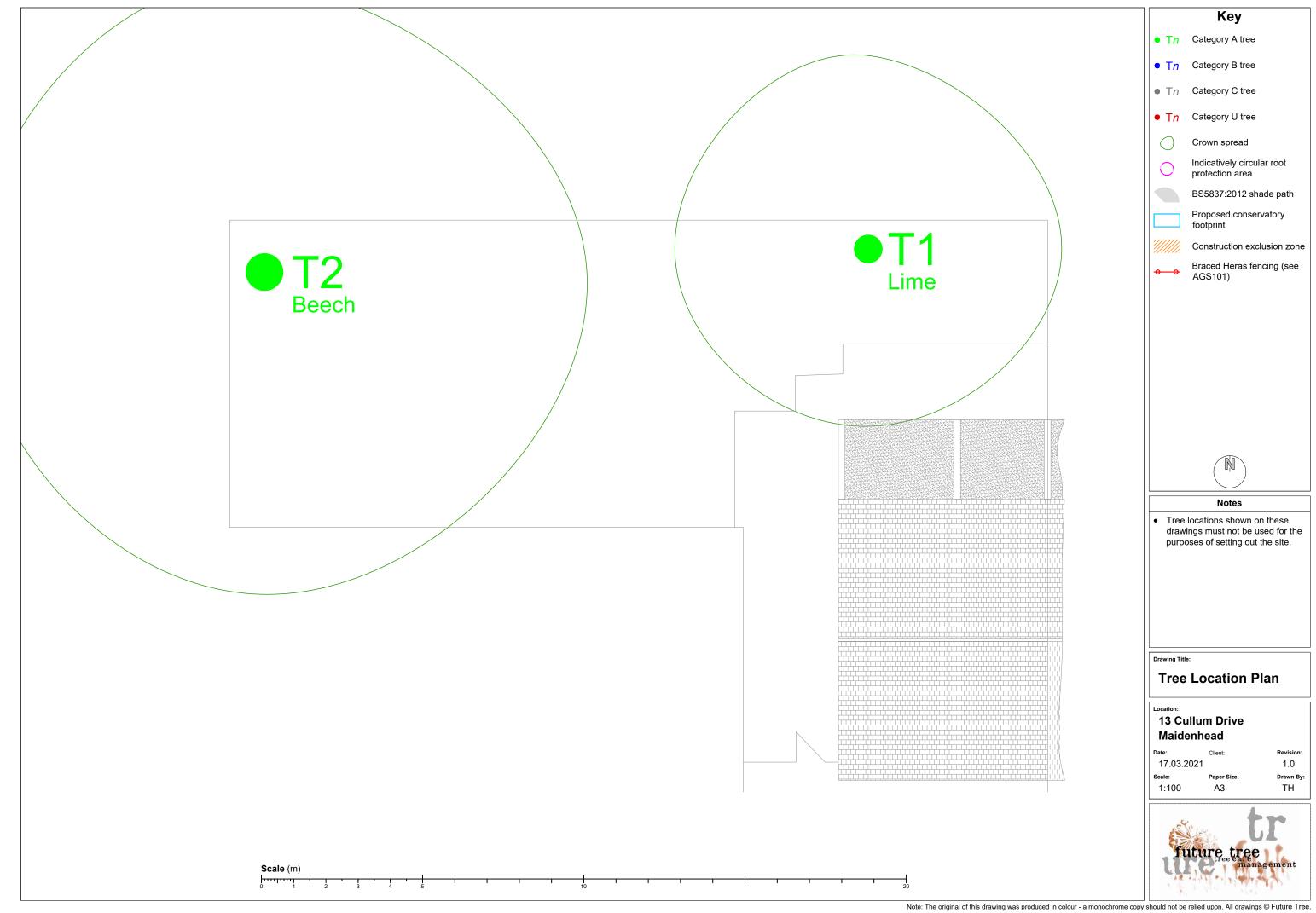
### Site Location: 13 Culham Drive, Maidenhead, SL6 7PW

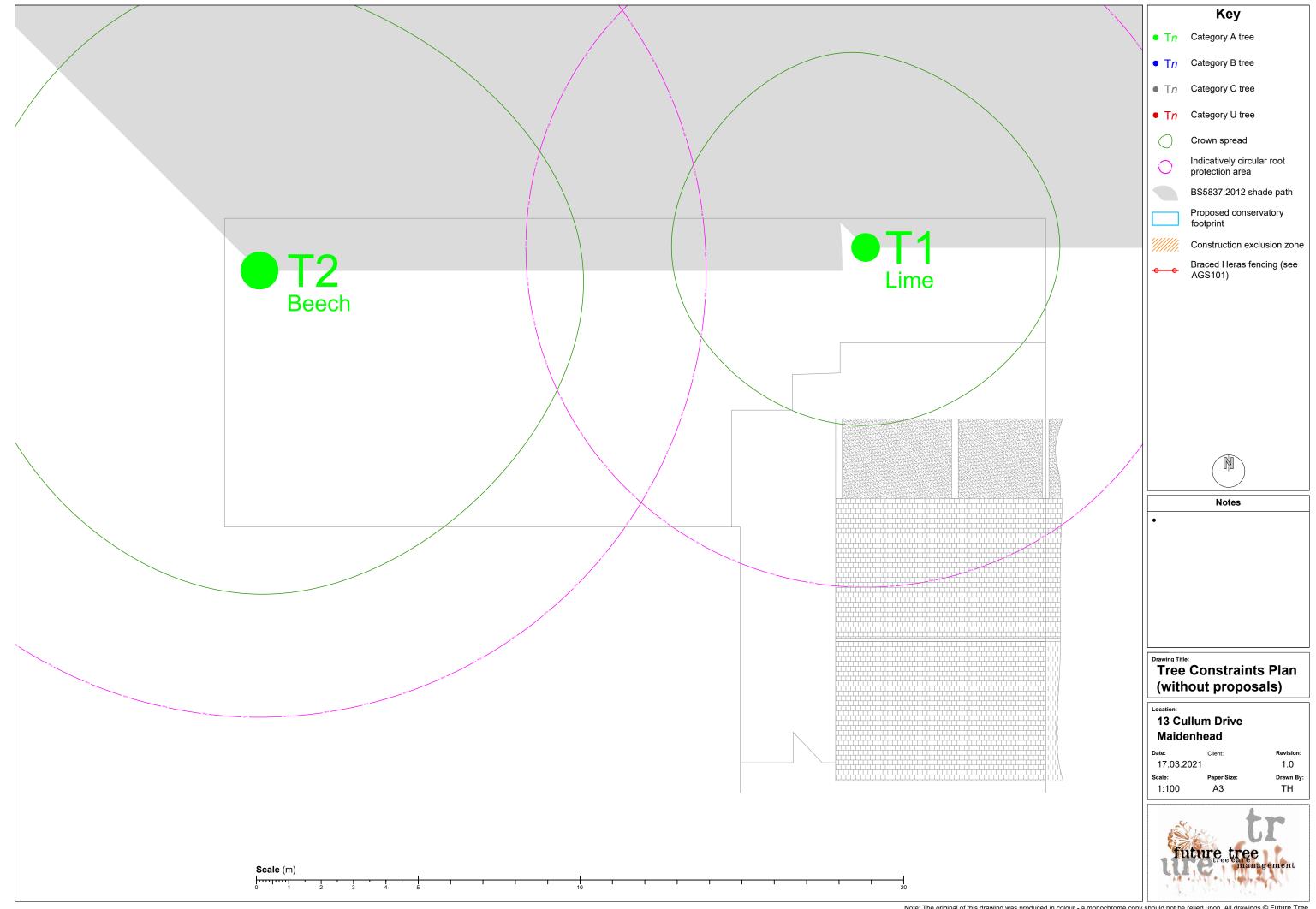
The following section shows the results of the tree inspection. Abbreviations used in the survey are as follows:

Tree No	Corresponding to plan								
Species	Comn	Common name							
Ht	Heigh	Height in metres							
Crown Spread		Crown spread in metres as measured at the four cardinal points of the compass							
Stem Dia	Diameter at breast height in mm (1.5 metres above ground level), or measured in accordance with the prescribed British Standard protocol in the case of multi-stemmed specimens (see Annex C in British Standard 5837:2012 for full details)								
RPA		Root Protection Area radius in metres (derived from the British Standard 5837:2012 formulae)							
Ht to L/B	Crowr	height in metres as measured to the height of the lowest branch							
Dir	Direct	ion from which the lowest branch arises							
Cr Ht	Heigh	t of crown in metres above ground level							
Age Class	Y	Young (grown to less than one third of life expectancy)							
	MA	Middle Aged (grown to between one to two-thirds of life expectancy)							
	М	Mature (grown to over two thirds of normal life expectancy)							
	OM	Over Mature							
	V	Veteran							
SULE	Safe u	useful life expectancy range in years							
Cond	Condi	tion, both physiological and structural:							
	G	Good (trees with no significant defects)							
	F	Fair (trees with some defects amenable to surgery)							
	Р	Poor (trees with significant defects)							
BS Cat		n Standard 5837:2012 Category (see Table 1 in British Standard 2012 for full details)							
m/s	Denot	es multistem tree along with the individual stem diameters							
#	Denotes estimated value where access was not possible								

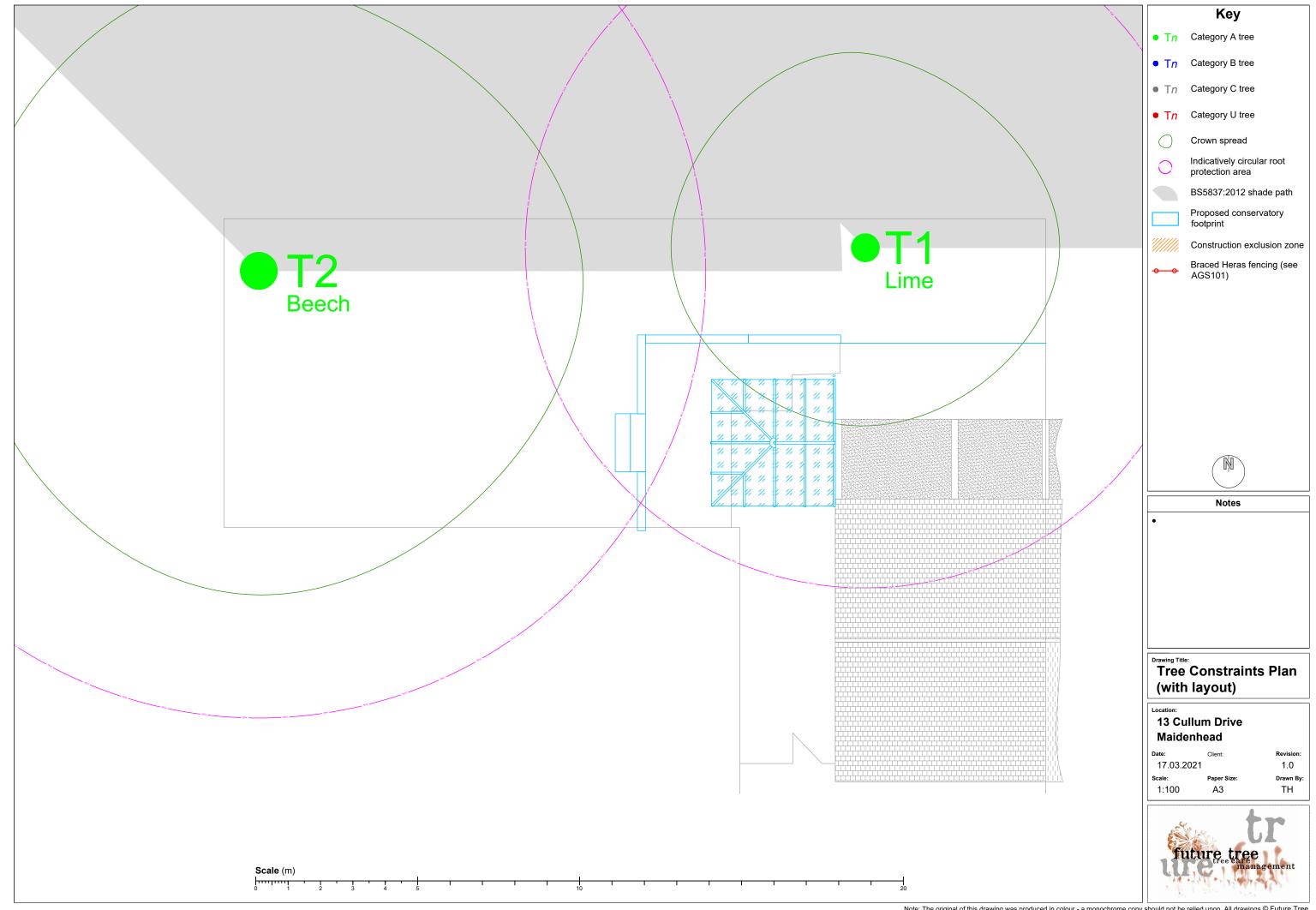
		Data Type: Individual Trees	Site Reference:	Location: 13 Culham Drive, Maidenhead, SL6 7PW	Inspection Date: 9th Oct 2020	Lead Surveyor: Eddie Butler	
--	--	-----------------------------	-----------------	--	-------------------------------	-----------------------------	--

Tree No.	Species	Tree Height	Crown Spread	Stem Dia (mm)	RPA Radius	RPA Area	LB Ht / Dir	Cr Ht	Age Cl	SULE	Cond Phys/Str	Observations	Recommendations	BS Cat
T1	Lime	21.0	N: 6.0 E: 6.0 S: 5.5 W: 6.0	870	10.50	346	7.0/S	8.0	М	>40			• No works required at the present time	A1
T2	Beech	18.0	N: 9.0 E: 10.0 S: 10.0 W: 9.0	1150	13.80	598	4.5/S	4.0	Μ	>40	G/G	• An attractive specimen.	• No works required at the present time	A1

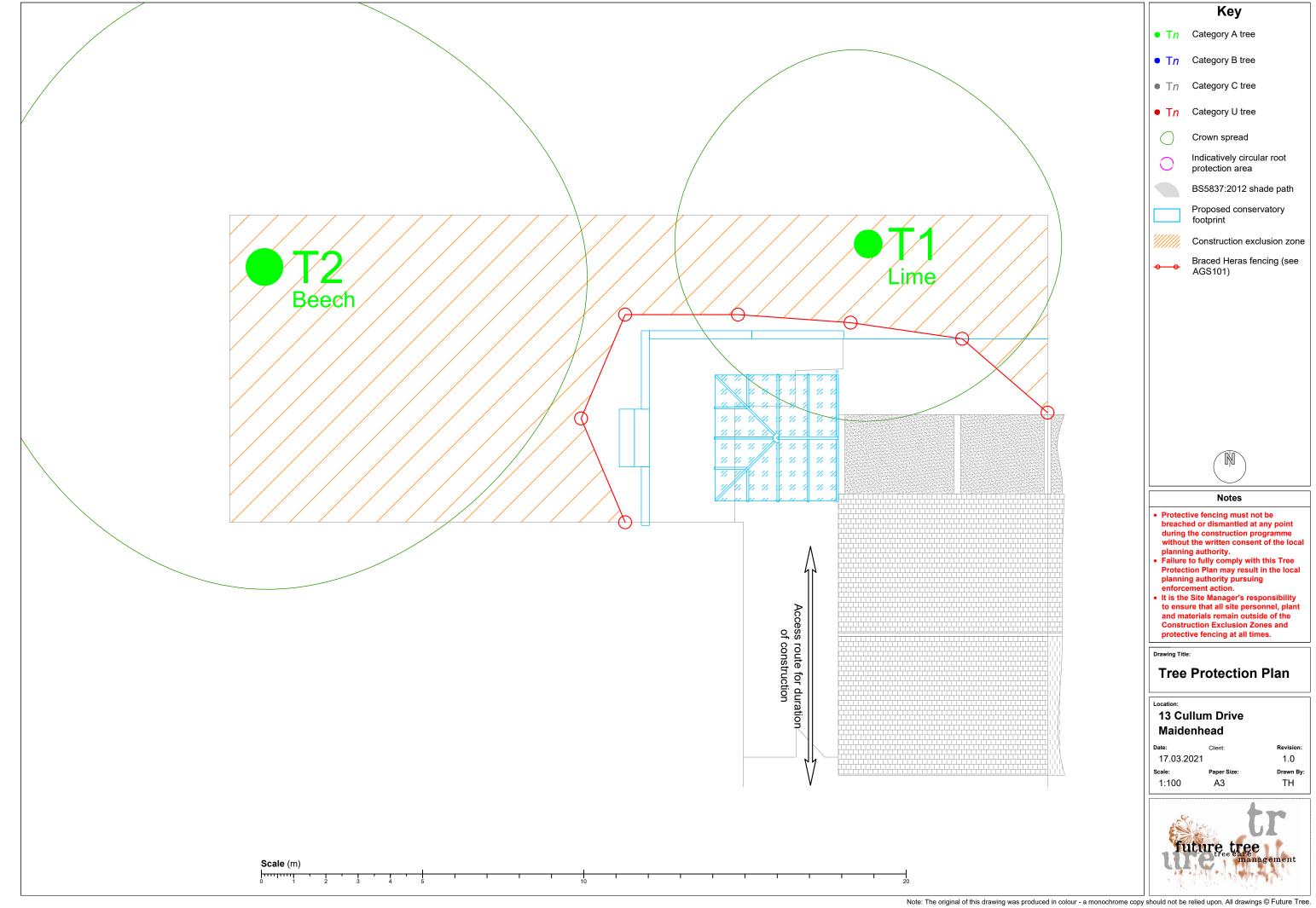




Note: The original of this drawing was produced in colour - a monochrome copy should not be relied upon. All drawings © Future Tree.

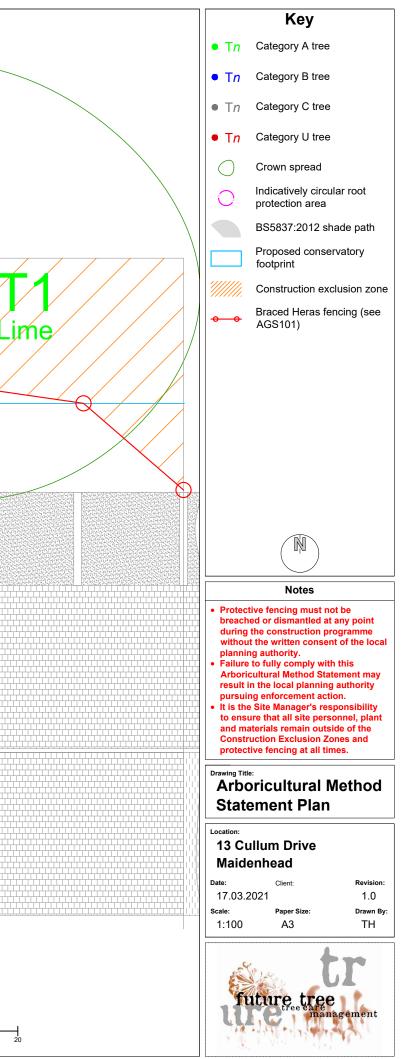


Note: The original of this drawing was produced in colour - a monochrome copy should not be relied upon. All drawings © Future Tree.



Arboricultural Method Statement		
<ul> <li>Arboricultural Method Statement</li> <li>All works to be undertaken in accordance with the following schedule:</li> <li>1. Tree Protection Plan and Arboricultural Method Statement to be reviewed and signed off by the Site Manager and Arboricultural Supervisor (see below). Any amendments to be made and a copy of all revised documents sent to the local planning authority as necessary. Signed off copy to be held on file in the site office for the duration of construction works.</li> <li>2. All site personnel, including sub-contractors, to be advised of tree protection requirements during induction (see Arboricultural Induction Sheet).</li> <li>3. Protective fencing to be installed as per the specifications detailed within the Arboricultural Guidance Sheets.</li> <li>4. Construction activities to commence in accordance with approved site layout.</li> <li>5. Future Tree to undertake ad hoc inspections at the request of the site manager or client. All inspections to be logged on the Arboricultural Supervision Inspection Record and any issues to be raised within an Exception Report to the client.</li> <li>6. Any accidental damage to trees to be reported immediately to Future Tree with any necessary remedial works to be agreed with the local planning authority.</li> <li>7. Fencing to be dismantled only on completion of all construction works.</li> <li>8. Signed copy of this drawing and Arboricultural Supervision Inspection Record to be held on project files on completion of all construction works.</li> </ul>	Beech	Access route for duration
Document Deview		ura
Document Review The Arboricultural Method Statement must be reviewed and signed off by the Site Manager and Arboricultural Supervisor prior to the commencement of works to ensure that it is fit for purpose.		tion
Site Manager:		
Arb Supervisor:		
Date:		
Document reviewed?		
Issues raised?	Scale (m)	
		í

Revised document required?



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# **Tree Protectio**



# Trees on this site are legally protected by the Local Planning Authority.

• Planning conditions, Tree Preservation Orders and Conservation Area regulations mean that damage to trees may result in enforcement action and all site works being stopped.



# Protective fencing must not be moved or dismantled under any circumstances.

- The protective fencing for the trees is there to protect the trees and their rooting systems.
- The fencing must not be moved for any reason unless it has been approved by the Site Manager and the Arboricultural Supervisor.



# The Construction Exclusion Zones are not to be used for any reason.

- These areas are there for a reason: to protect the tree above and below the ground.
- Storage of materials, the mixing of concrete, the fueling of machines, the parking of vehicles, etc. all cause damage to a tree's roots so use a designated zone for these activities.



# Trees are not to be used for any purpose - they are there for the future.

- Trees are not to be used as a place to screw signs onto, or as cable supports.
- Fires can do massive damage to trees, both above and below ground, and even some distance away. If a fire is permitted on site, it must be at least ten metres from the nearest branch of any retained tree.



# Extra care will always be required when craning or using excavators.

- It's too easy to accidentally swing an excavator boom, HIAB, crane jib or load into the branches or trunk of a tree so extra care is always required.
- Plan all movements carefully, make sure the operator has good visibility and, where possible, use an experienced banksman.

# What to do if it all goes wrong?

- Accidents can happen so if a tree is damaged, even only slightly, this must be reported to the Site Manager immediately.
- If the Site Manager is not available then contact Future Tree immediately to seek further advice.

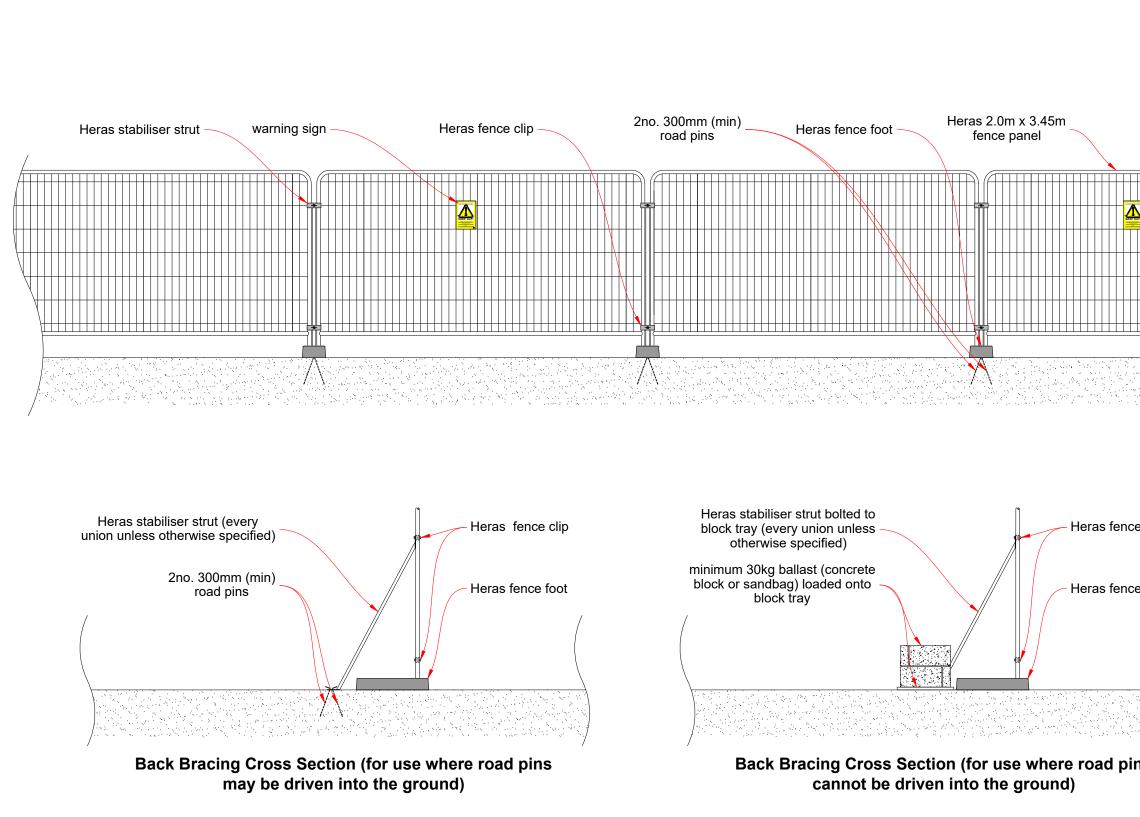
on into	ormatio	on		Damage to trees during construction can result in
All site staff in	cluding archaeologis I landscapers must si	ts, consultants, contr	actors, sub-contractors, hat they have read and	<ul> <li>enforcement action, including the local authority issuing Stop Notices or pursuing prosecution for damage to trees covered by a Tree Preservation Order.</li> <li>It is essential that all staff working</li> </ul>
Full Name:	Signature:	Full Name:	Signature:	on site, including contractors, sub-contractors and delivery drivers, are made aware of the
Company:	Date:	Company:	Date:	<ul> <li>tree protection measures in operation on this site.</li> <li>It may be necessary to read the sheet out to personnel with limited</li> </ul>
Full Name:	Signature:	Full Name:	Signature:	<ul> <li>literacy or language skills.</li> <li>Every member of staff must sign this sheet to confirm that they have fully understood the tree</li> </ul>
Company:	Date:	Company:	Date:	<ul> <li>protection measures. The sheet</li> <li>must remain on site with the Tree</li> <li>Protection Plan and Arboricultural</li> <li>Method Statement to allow for</li> </ul>
Full Name:	Signature:	Full Name:	Signature:	inspection at any reasonable time by the Arboricultural Supervisor or the Local Planning Authority
Company:	Date:	Company:	Date:	<ul> <li>Arboricultural Officer.</li> <li>In the event of any queries, concerns or amendments, please contact Advanced Arboriculture at</li> </ul>
Full Name:	Signature:	Full Name:	Signature:	the earliest opportunity. <ul> <li>It is essential that the project</li> <li>has a designated Arboricultural</li> </ul> Supervisor. If this role has not
Company:	Date:	Company:	Date:	been assigned then please contact the client or Project Manager to request
Full Name:	Signature:	Full Name:	Signature:	<ul> <li>authorisation to appoint an Arboricultural Supervisor.</li> <li>It is the Site Manager's responsibility to ensure that all</li> </ul>
Company:	Date:	Company:	Date:	staff are fully inducted, that all tree protection measures are installed and maintained correctly, and that the
Full Name:	Signature:	Full Name:	Signature:	scheduling detailed within the Arboricultural Method Statement is followed.
Company:	Date:	Company:	Date:	Arboricultural Supervisor (unless otherwise instructed)
Full Name:	Signature:	Full Name:	Signature:	Name: Edward Butler     Company: Future Tree     Mobile: 07970 495813 Email: eddiembutler@yahoo.co.uk
Company:	Date:	Company:	Date:	Drawing Title:
Full Name:	Signature:	Full Name:	Signature:	Arboricultural Site Induction Sheet
Company:	Date:	Company:	Date:	Location: 13 Cullum Drive Maidenhead
Full Name:	Signature:	Full Name:	Signature:	Date:         Client:         Revision:           17.03.2021         1.0           Scale:         Paper Size:         Drawn By:
Company:	Date:	Company:	Date:	n/a A3 TH
Full Name:	Signature:	Full Name:	Signature:	future tree
Company:	Date:	Company:	Date:	

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Notes for Site Manager

						• • • • • •			Notes for Site Manager
Art	<b>OC</b>	ricultu	ra	Super	11	sion Inst	pection R	<b>lecord</b>	Where arboricultural supervision is included as a
									condition of a planning consent,
Initial Project Inspection		Ad Hoc Inspection		Ad Hoc Inspection		Ad Hoc Inspection	Ad Hoc Inspection	Ad Hoc Inspection	there is a legal obligation to ensure that it is complied with in
Date:		Date:		Date:		Date:	_ Date:	Date:	<ul> <li>full.</li> <li>It is the Site Manager's</li> </ul>
Inspector:		Inspector:		Inspector:		Inspector:	_ Inspector:	Inspector:	responsibility to ensure that the
Summary of Reason for Inspectio	on:	Summary of Reason for Inspection	on:	Summary of Reason for Inspection:		Summary of Reason for Inspection:	Summary of Reason for Inspection:	Summary of Reason for Inspection:	Arboricultural Supervisor is appointed and inspections
, ,									commissioned as per the planning consent. Failure to comply with the
							-		prescribed arboricultural
							-		supervision requirements remains the responsibility of the Site
							-		Manager. <ul> <li>Reasons for requesting ad hoc</li> </ul>
							-		inspections may include accidental
							-		damage to trees, an amendment to proposals, or to clarify a detail
							-		on the Tree Protection Plan or
							-		Arboricultural Method Statement. The Arboricultural Supervisor shall
							_		make every effort to attend site within 48 hours of receiving a
							_		request from the Site Manager.
									Local planning authority officers     may ask to see the completed
									Arboricultural Supervision
							-		Inspection Record at any reasonable time.
					·		-		Any issues raised during an inspection may require the
							-		Arboricultural Supervisor to
	Yes No		Yes No		Yes No	Yes No	-	No Ves Contraction No	prepare an Exception Report detailing remedial works or
All concerns resolved?		All concerns resolved?		All concerns resolved?		All concerns resolved?	All concerns resolved?	All concerns resolved?	actions; these must also be kept on file in the site office.
Tree issues?		Tree issues?		Tree issues?					On completion of all construction
Fencing issues? Exception Report required?		Fencing issues? Exception Report required?		Fencing issues? Exception Report required?		Fencing issues?       Exception Report required?	Fencing issues?       Exception Report required?	Fencing issues?       Exception Report required?	works, a copy of this completed document must be sent to the local
· · ·									_ planning authority by the Arboricultural Supervisor to
Ad Hoc Inspection		Ad Hoc Inspection		Ad Hoc Inspection		Ad Hoc Inspection	Ad Hoc Inspection	Final Project Inspection	discharge the relevant conditions
Date:		Date:		Date:		Date:	_   Date:	Date:	of the planning consent.
Inspector:		Inspector:		Inspector:		Inspector:	_ Inspector:	Inspector:	
Summary of Reason for Inspectio	on:	Summary of Reason for Inspection	on:	Summary of Reason for Inspection:		Summary of Reason for Inspection:	Summary of Reason for Inspection:	Outstanding Arboricultural Issues:	
							-		Arboricultural Supervisor
							_		(unless otherwise instructed) Name: Edward Butler
							_		Company: Future Tree Mobile: 07970 495813
							_		Email: eddiembutler@yahoo.co.uk
									Drawing Title:
							-		Arboricultural
					·		-		Supervision Log
							-		Location:
							-		13 Cullum Drive Maidenhead
							-		Date: Client: Revision:
							-		17.03.2021 1.0
							-		Scale: Paper Size: Drawn By: n/a A3 TH
							-		
	- <u> </u>						-	No	
All concerns resolved?		All concerns resolved?		All concerns resolved?		All concerns resolved?	All concerns resolved?	All concerns resolved?	
Tree issues?		Tree issues?		Tree issues?		Tree issues?	Tree issues?	Tree issues?	Tuture tree
Fencing issues?		Fencing issues?		Fencing issues?		Fencing issues?	Fencing issues?	Fencing issues?	management
Exception Report required?		Exception Report required?		Exception Report required?		Exception Report required?	Exception Report required?	Exception Report required?	

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	Notes
	<ul> <li>These specifications are for guidance only.</li> <li>This fencing specification is based on the specification detailed within British Standard 5837:2012 Figure 3 but adds an additional detail for where the use of road pins is not possible.</li> <li>Stabiliser struts to be attached at every panel union unless specified otherwise.</li> <li>A check for underground services must be completed before driving any road pins into the ground.</li> <li>Where it is not possible to use road pins due to hard surfacing or the presence of underground services, a Heras block tray may be used with a minimum of 10kg of ballast (concrete blocks, metal weights or sandbags).</li> <li>This information must accompany all tender documents to enable contractors to include tree protection measures in their costings.</li> <li>Local planning authority consent for these specifications cannot be assumed and must be sought prior to commencement of any construction works.</li> </ul>
e clip	
e foot	
าร	Drawing Title: Braced Heras Fencing
	Date:         Drawing Number:         Revision:           01.04.2017         AGS101         1.0           Scale:         Paper Size:         Drawn By:           1:40         A3         TH
	Advanced Arboriculture Venmore Barn Woodbury Devon EX5 1LD t: 01395 239002 e: info@advancedarb.com w: www.advancedarb.com



Notes:

 This poster may be printed out and laminated or requested electronically as an A4 PDF or ready printed on laminated board. Arboricultural Guidance Sheet Title: Protective Fencing Poster

 Date:
 Drawing Number:

 01.02.2012
 AGS 07

 Scale:
 Paper Size:

 1:1.5
 A4

Revision: 1.1 Drawn By: TH





# Site: 13 Culham Drive, Maidenhead, Berkshire, SL6 7PW



Date: 9th Oct 2020



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