

**Arboricultural Impact Assessment
Arboricultural Method Statement
Tree Protection Plan**

3 COURT PARK, BUTLEIGH, BA6 8SU



On behalf of

Richard Blake

Sue Rankine BSc (hons), Dip Arb L4, *TechArborA*
Arboricultural Consultant

June 2021

Version No	Checked by	Date
1.0	AR	28/06/2021

1.0 Introduction

1.1 Brief

This report is prepared by Hillside Trees Ltd on behalf of Richard Blake

1.2 Purpose of the Report

1.2.0 This report is intended to accompany a planning application relating to proposed development at 3 Court Park. This document has been produced to demonstrate that the implications of the proposed development in relation to the arboricultural and landscape value of the trees on the site have been fully considered during the detailed design process.

1.2.1 This report and the accompanying information is supplied in order to:

- Identify a tree to be removed and trees to be retained and requiring protection during the site preparation and construction phase of the project.
- Present information regarding the location of protective barriers (Construction Exclusion Zones) and temporary ground protection on a Tree Protection Plan.
- Identify special engineering measures
- Provide a Detailed Arboricultural Method Statement for the recommended works related to trees to be retained during and after the development.

1.3 Documents Provided to Hillside Trees Ltd.

- Collier Reading Architects Drawing No. S6228 / 101C Elevations and Site Plan as Proposed

1.4 Tree Survey Methodology

1.4.1 A tree survey was undertaken on 16th June 2021 by an Arboricultural Consultant of Hillside Trees Ltd.

1.4.2 The survey took place from ground level aided by the Visual Tree Assessment method (Mattheck and Breloer, 1994).

- 1.4.3** This survey is not a tree risk assessment but takes into account any observed structural defects of the trees in order to inform conclusions with regard to their retentive worth.

1.5 Data Collection

- 1.5.1** Data collected includes designated tree number, tree species, height, number of stems, stem diameter, crown clearance (height of periphery of crown spread above ground level), branch spread (to N, S, E and W), age class, physiological condition, useful life expectancy, tree structural condition, site notes (where this has a bearing on the present or future health or structural condition of the tree), and tree category.

1.6 Presentation of the Data Collected

- 1.6.1** Data collected regarding individual trees and groups of trees are presented in the Tree Schedule table in Appendix A in accordance with BS5837:2012 'Trees in relation to design, demolition and construction – Recommendations'. The tree schedule also gives scientific names for all trees mentioned in the report.
- 1.6.2** The data significant to the proposed site layout is also presented on the Tree Protection Plan Drawing Number 210628-3CPB-TPP-SD&AM contained within the Detailed Arboricultural Method Statement (Appendix B).
- 1.6.3** All other relevant data are presented within the main body of this report.
- 1.6.4** Trees have been allocated an individual tree number. This tree number is used to identify individual trees and groups of trees throughout this report, within the Tree Schedule and on the Tree Protection Plan presented in the appendices of this report.

2.0 Arboricultural Constraints

An assessment of the trees surveyed presented in the Tree Schedule table in Appendix A, is also considered in the main body of the report below.

An Arboricultural Impact Assessment Plan has been produced showing the root protection areas (RPAs) for the individual trees identified in the Tree Schedule (Appendix A). This represents the minimum area in m² which, ideally should be left undisturbed around each tree were it to be retained. The RPA has been calculated in accordance with Section 4.6 of BS5837:2012 'Trees in relation to design, demolition and construction – Recommendations'.

The Arboricultural Impact Assessment Plan also shows a representation of the crown spread of each tree measured in four cardinal directions.

A search of Mendip District Council's online mapping service on 28th June 2021 confirmed that the site lies within a Conservation Area and that the trees along the southern boundary are protected by TPO No. M351

2.1 Trees Identified for Retention and Removal

The proposed development involves building an extension on the southern end of the existing house and the construction of a garage / car port in the garden

The following on site trees will be retained

Tree / group nos	Common name	Total
T1, T2	False acacia	2
T4	Holm oak	1
G5	Yew	17
T6	Oak	1
T7	Blue atlas cedar	1
Total number retained		22

The following trees will be removed:

Tree / group nos	Common name	Total
T3	Sweet bay	1
Total number removed		1

2.2 Trees Outside The Site Boundary

There are no trees outside the site boundary which are affected within the current proposals.

3.0 Tree Protection

The trees to be retained on site during and after development as listed in Section 2.1 will require protection.

Below ground protection measures based on the RPA's presented in the Arboricultural Impact Assessment Plan, will involve the erection of tree protection barriers as discussed in the Detailed Arboricultural Method Statement (Appendix B). Where the proposed site layout requires the breaching of these ideal areas, measures are recommended in order to minimise the damage to the roots and the root environment of the tree in question. Such measures acknowledge the fact that the extent, distribution and actual position of roots of a tree within the RPA are not known.

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REFERENCES

Mattheck, C. and Breloer, H. (1995). *The Body Language of Trees: A handbook for failure analysis. Research for Amenity Trees 4.* HMSO, London, 240pp.

STANDARDS PUBLICATIONS

Trees in relation to design, demolition and construction – Recommendations (BS5837), British Standards Institution, London (2012)

Tree Work Recommendations (BS3998), British Standards Institution, London (2010)

Appendix A

Tree Schedule

Table 1 Cascade Chart taken from BS5837:2012 Trees in relation to design, demolition and construction – Recommendations.

Appendix A - Tree Schedule

3 Court Park, Butleigh

Client:

Richard Blake

Surveyor:

Sue Rankine

Date of Survey:

16th June 2021



Tree Number	Single or Group	Number in group	Common Name	Scientific Name	Height (m)	Calculated Stem Diameter (mm)	Number of Stems	Root Protection Area (Radius, m)	Crown Clearance (m)	N - Radius (m)	S - Radius (m)	E - Radius (m)	W - Radius (m)	Age Class	Physiological Condition	ULE (Years)	Tree Structural Condition and Site Notes	BS Category
T1	S		False acacia	<i>Robinia pseudoacacia</i>	15	560	1	6.72	2	3	3	5	5	M	G	20-40	Good	B1
T2	S		False acacia	<i>Robinia pseudoacacia</i>	14	590	1	7.08	8	6	5	6	5	M	G	20-40	Good	B1
T3	S		Sweet bay	<i>Laurus nobilis</i>	7	291	5	3.49	2	3	1	2	4	M	F	20-40	Poor	C1
T4	S		Holm oak	<i>Quercus ilex</i>	14	1152	5	13.83	8	5	5	8	7	M	G	40+	Good	B1
G5	G	17	Yew	<i>Taxus baccata</i>	12	374	3	4.49	4	4	4	2	2	M	F	40+	Fair	C2
T6	S		Oak	<i>Quercus robur</i>	15	350	1	4.20	6	5	4	3	4	M	G	40+	Good	C1
T7	S		Blue atlas cedar	<i>Cedrus atlantica 'Glauca'</i>	17	600	1	7.20	10	7	4	4	5	M	F	40+	Good	C1

Table 1 – Cascade chart for tree quality assessment

TREES FOR REMOVAL				
Category and definition	Criteria			Identification on plan
<p>Category U Those in such condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years</p>	<ul style="list-style-type: none"> • Trees that have a serious, irremedial, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) • Tree that are dead or show signs of significant, immediate, and irreversible overall decline • Trees infected by pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing other trees of better quality <p><i>NOTE Category U trees can have existing potential conservation value which might be desirable to preserve; see 4.5.7</i></p>			<p>DARK RED</p> <p>RGB code 127-000-000 AutoCAD 246</p>
TREES TO BE CONSIDERED FOR RETENTION				
Category and definition	Criteria - Subcategories			Identification on plan
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation	
<p>Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years</p>	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	<p>LIGHT GREEN</p> <p>RGB code: 000-255-000 AutoCAD 90</p>
<p>Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years</p>	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural value	<p>MID BLUE</p> <p>RGB code: 000-000-255 AutoCAD 170</p>
<p>Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm</p>	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value	<p>GREY</p> <p>RGB code: 091-091-091 AutoCAD 252</p>

Appendix B

Detailed Arboricultural Method Statement

Arboricultural Method Statement

Tree Protection Plan

3 COURT PARK, BUTLEIGH, BA6 8SU



On behalf of

Richard Blake

Sue Rankine BSc (hons), Dip Arb LA, *TechArborA*
Arboricultural Consultant

June 2021

Arboricultural Method Statement

INTRODUCTION

*The purpose of this document is to give a step by step guide to protecting trees on this site. It is vital that all members of the team are familiar with it so that they not only understand **why** trees need protecting but also **how** they are to be protected and their own role in protecting them.*

THE IMPORTANCE OF TREES

- Trees play a crucial role in the fight against climate change. One mature tree can absorb in the region of 1 tonne of carbon during its lifetime – the world needs all the trees it can get
- Trees are an important wildlife habitat, for example many insects and birds rely on them for food and shelter
- Trees are an integral part of human habitat. People like trees for their landscape value and for their shading and sheltering properties

WHAT WILL CAUSE DAMAGE TO A TREE?

- Wounds to the trunk or limbs of a tree can let in pathogens which could go on to infect and eventually even kill a tree
- Removal of branches decreases the number of leaves a tree has. Leaves are vital to the tree for manufacture of the energy they need through photosynthesis
- Compaction of the soil around a tree will damage its roots making it unable to absorb water or oxygen which can result in the tree's death. The extent of the roots are shown on the Tree Protection Plan in the document below as Root Protection Areas or RPA's

HOW YOU AND YOUR TEAM CAN PREVENT DAMAGE TO TREES

- Ensure all members of the team read this document before work starts
- Follow the instructions given, don't cut corners
- Take pride in protecting trees – treated well they will outlive you and continue to give benefit for years to come

Planning permission for this project depends on this method statement being followed. Dealing with breaches of condition is far harder, more time consuming and costly than following the instructions. Failure to comply could even result in prosecution.

THE PROJECT ARBORICULTURALIST IS ON HAND TO HELP. IF IN DOUBT, PLEASE RING FOR ADVICE. 01761 233244

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Registered in England No. 07175569

Registered Office: Broadway House, Third Avenue, Westfield Industrial Estate, Radstock. BA3 4XD

This Method Statement Comprises:

- 1. Method Statement Document**
- 2. Appendices:**
 - I. Schedule of Tree Removal**
 - II. Tree Protection Site Notice**
 - III. Temporary Ground Protection**
- 3. Tree Protection Plan (210628-3CPB-TPP-SD&AM)**

THESE DOCUMENTS ARE TO BE KEPT TOGETHER**Full Site Address:**

3 Court Park
High Street
Butleigh
Glastonbury
BA6 8SU

Proposed Development:

The proposed development involves building an extension on the southern end of the existing house and the construction of a garage and car port in the garden

Contacts:**Client:**

Richard Blake

Project Manager (for the client):

James Olley
Collier Reading Architects

Telephone: 01749 689060

Email: james@collierreading.co.uk

Contractor / Builder:

To be confirmed

Site Manager:

To be confirmed

Tree Officer:

Bo Walsh
Mendip District Council

Telephone: 01749 341434
Email: bo.walsh@mendip.gov.uk

Project Arboriculturalist:

Sue Rankine
Hillside Trees Ltd.

Telephone: 01761 233244
Email: sue@hillsidetrees.co.uk

Works Requiring Tree Protection / Works:

Development Operations	Tree Number	Type of Protection / Works	Reference
Construction of garage	T3	Remove	Appendix I
	T4	Construction using screw pile foundations	Section 5 below
Site traffic and construction of extension to house	T4, T5, T6, T7	Tree protection fencing Site notices	Appendix II
	T4, T6	Temporary ground protection	Appendix III

Sequencing of Operations:

The tree protection measures appropriate for the site operations below, if required by the Local Planning Authority will be monitored by the Project Arboriculturalist. It will be the responsibility of the Project Manager and / or the Site Manager to inform the Project Arboriculturalist if site visits and reports are required and to arrange them accordingly

1. Pre-commencement site meeting

- a. The Appointed Contractor will co-ordinate with the Project Arboriculturalist to discuss and agree the site operations programme and tree protection.

2. Carry out tree removal (See Appendix I)

- a. All tree removal will be carried out by a suitably qualified and experienced tree surgeon
- b. All works will be carried out to industry best practice and will be in accordance with BS3998

3. Install tree protection fencing

- a. Tree protection fencing will be installed in the locations shown on the Tree Protection Plan
- b. The area between the tree protection fencing and the trees will be a construction exclusion zone (CEZ)
- c. Tree Protection Fencing will be 'Heras' weldmesh panels secured in robust bases and tightly clamped.
- d. Site Notices will be securely fixed to the tree protection fence panels (Appendix II)
- e. There will be no movement of tree protection fencing unless it is overseen by the Project Arboriculturalist
- f. No activity will take place within the CEZ's.

4. Installation of temporary ground protection

- a. Temporary ground protection will be installed in the locations indicated on the Tree Protection Plan.
- b. Ground protection will consist of scaffold boards or heavy duty chip board placed on top of a compression-resistant layer (e.g. 100mm depth woodchip) laid on to a geo-textile membrane. (Appendix III)

5. Construction of new garage

- a. The garage will be constructed using screw pile foundations or similar to minimise activity in the rooting area of T4. Final specification to be supplied by the architects

6. Construction of new extension

- a. Construction of the new extension will not require access to the CEZ's.

7. Installation of services

- a. Installation of services will not require access to the CEZ's

8. Removal of tree protection fencing and ground protection

- a. Tree protection fencing and ground protection will only be removed once all works associated with the development have been completed. These include:
 - Construction and fitting out of the new extension and garage
 - Installation of services

General Precautions

1. Any welfare facilities and site storage will be positioned outside the CEZ's. The location will be agreed between the Site Manager and the Project Arboriculturalist prior to commencement of the project.
2. No materials that are likely to have an adverse effect on tree health will be stored or discharged within 10 metres of the trunk of a tree that is to be retained. Such materials include:
 - Oil
 - Bitumen
 - Cement
3. No fires will be lit unless the site of the fire is agreed with the Project Arboriculturalist.

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4. Concrete will not be mixed or transported over unprotected ground, within 10 metres of the trunk of any tree.
5. In the event of unforeseen incidents occurring that may adversely affect or threaten the welfare or security of the trees, the Site Manager shall inform the Project Arboriculturalist at the earliest opportunity and not more than one working day following the incident.
6. The Project Arboriculturalist will visit the site to inspect and assess the circumstances and make any appropriate recommendations. The Local Planning Authority Tree Officer will be informed by the Project Arboriculturalist of such incidents and recommendations will be submitted for approval by the Local Planning Authority, initially verbally, and then in writing.
7. A record of any emergency incidents and works shall be maintained by the Project Arboriculturalist.
8. Incidents which may merit such contingency plans include:
 - Accidental / unauthorised damage to the limbs, roots or trunk of trees
 - The spillage of chemicals within or adjacent to a Root Protection Area
 - The discharge of toxins / waste within or adjacent to a Root Protection Area
 - The un-scheduled breaching of a tree protective barrier or Construction Exclusion Zone.

This Method Statement has Been Informed by the Following Information

- Arboricultural Site Survey carried out by Hillside Trees Ltd on 16th June 2021
- Collier Reading Architects Drawing No. S6228 / 101C Elevations and Site Plan as Proposed
- BS5837: 2012 'Trees in relation to design, demolition and construction – Recommendations'

Appendix I

Schedule of Tree Removal

Tree Number	Work Specification
T3	Take down to ground level Remove stump

All tree removal works will be carried out by a suitably qualified and experienced tree surgeon

All works will be carried out to industry best practice and will be in accordance with BS3998:2010 'Works to Trees'

Appendix II

Tree Protection Site Notice



**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**

Appendix III

Temporary Ground Protection

Temporary Ground Protection Method and Specification

BS5837 recognizes that incursions in to the construction inclusion zones will be required at times during some developments.

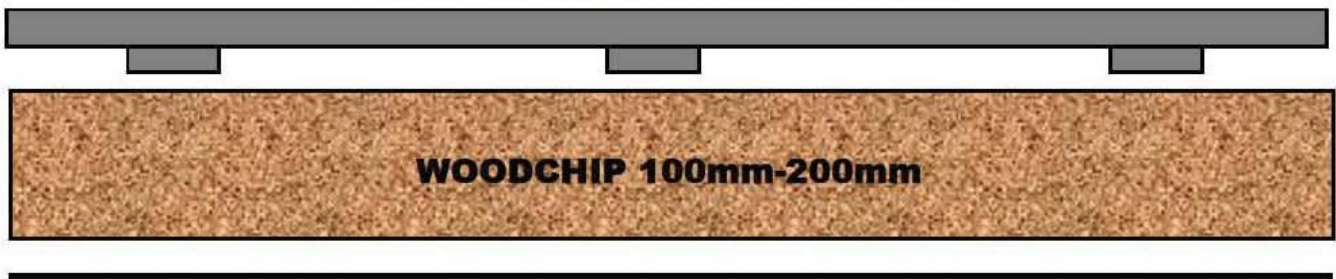
The objective is to minimize soil compaction

Example 1 - *for pedestrian movements only, a single thickness of scaffold boards places 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.) 100mm depth of woodchip), laid on to a geotextile membrane.*

Example 2 - *For pedestrian-operated plant up to a gross weight of 2 t, proprietary inter-linked ground protection boards placed on top of a compression-resistant layer (e.g. 150mm depth of woodchip), laid onto a geotextile membrane;*

Example 3 - *For wheeled or tracked construction traffic exceeding 2 t gross weight, an alternative system (e.g. proprietary systems or pre-cast reinforced concrete slabs) to an engineering specification designed in conjunction with arboricultural advice, to accommodate the likely loading to which it will be subjected.*

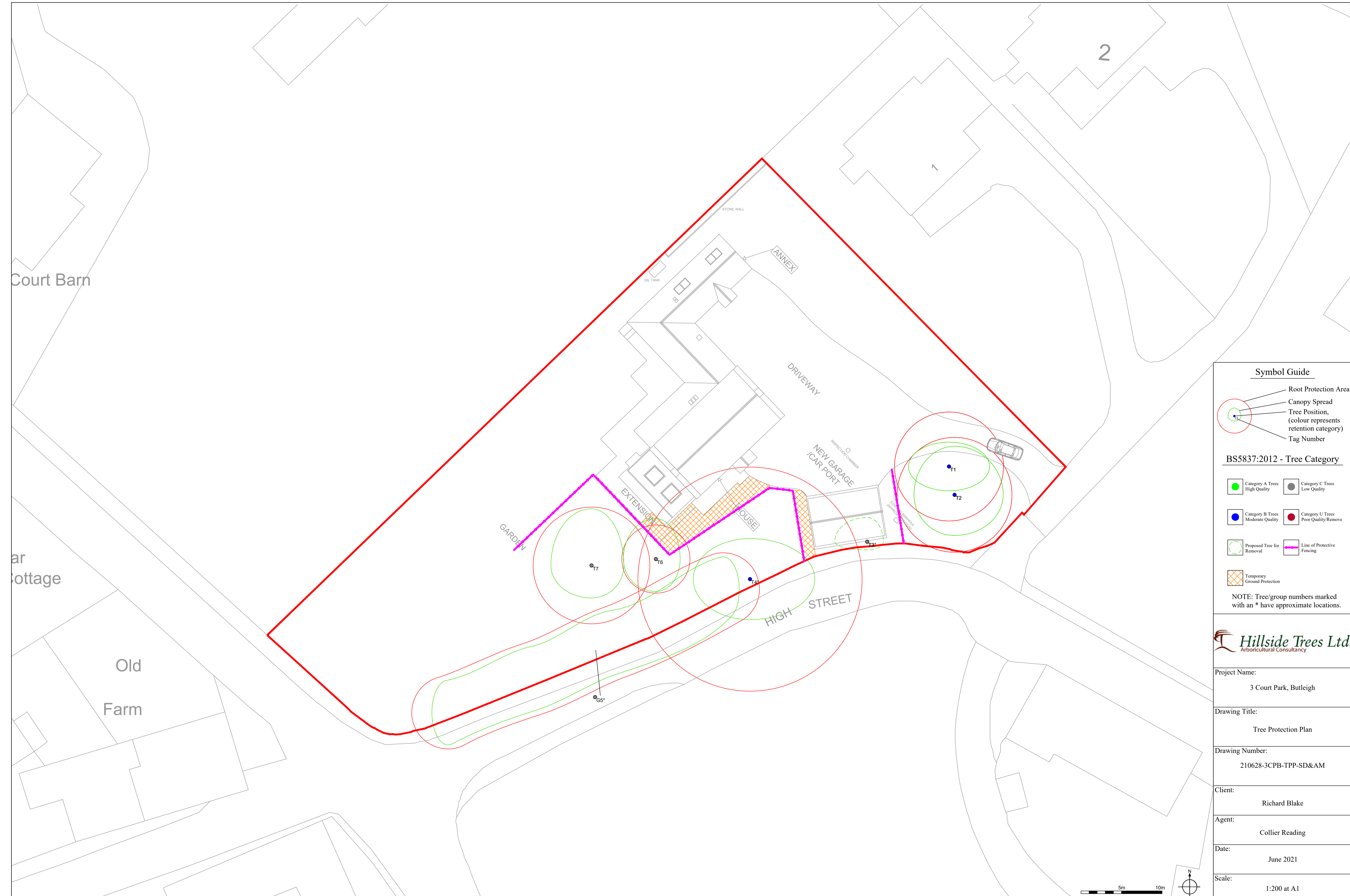
WOODEN BOARDING/TRACK-WAY



GEOTEXTILE MEMBRANE

Tree Protection Plan

Drawing no: 210628-3CPB-TPP-SD&AM



Symbol Guide

- Root Protection Area
- Canopy Spread
- Tree Position, (colour represents retention category)
- Tag Number

BS5837:2012 - Tree Category

Category A Trees High Quality	Category C Trees Low Quality
Category B Trees Moderate Quality	Category U Trees Poor Quality/Remove
Proposed Tree for Removal	Line of Protective Fencing
Temporary Ground Protection	

NOTE: Tree/group numbers marked with an * have approximate locations.



Project Name:	3 Court Park, Butleigh
Drawing Title:	Tree Protection Plan
Drawing Number:	210628-3CPB-TPP-SD&AM
Client:	Richard Blake
Agent:	Collier Reading
Date:	June 2021
Scale:	1:200 at A1

